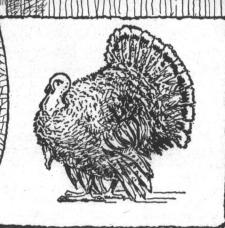
MICHIGAN MFARMER







SOUTROIT MICH.

ATURDAY

11/0V121,1914;

M27

Efficiency on the Farm.

connection with the management charges for hauling and storing. of a farm and many worthy persons think immediately of sensational team work problem was

one who is efficient.

The Functions of a Farm.

with limited ideas about the functions ful worker. of a farm. Even the owners themselves may get into the rut of thinking it is the hardest business on earth owner said: are very diversified. Moreover, effi- count would go as high as 50,000 per any other line of business.

Where Efficiency was Applied.

dealers and manufacturers. By pay- I promised them a bonus of \$15 per teams are not busy on the farm. This monthly pay checks. Every man is weeds that had gotten ahead of a cer-

PEAK of business efficiency in means low prices and minimum

His way of managing the labor and modern methods. A few farmers be- enough. On the principle that idle lieve efficiency is the solution of all men and work horses are two things just as certain it is a passing fad. In away from, he worked out a system of some of the counties where experts keeping account of the labor charges Some of the more progressive cution was set and a big saving made efficiency idea into successful opera- down the yields and consumed what sense. tion on his farm. He has read the otherwise would have been a profit. nent. He has followed the editorials in his crop rotation, and by doing con- essary to make ample provisions for fruits of labors already done? articles, and knows instances siderable fall plowing disposed of one maintaining its productivity. Good where it has proved beneficial or to work team and an extra hired hand live stock is full of possibilities, both ent about the tendency for the farmer the contrary. Now he would like to for several months during the rush from the efficiency and from the fer- to go to the city in order to try to know what it can do in his own busi- season. Soon more of the land was tility side. It helps to distribute the find a business that will require less ness. Also, he wants to know if he drained, and a larger area kept in hay labor evenly throughout the year and work, and at the same time yield largemploys an expert that he is securing and pasture. This enabled him to sell helps to provide a steady income; it er profits. To what can this sad con-The farm is no different from any farm work going with one less man, up soil fertility and encourages the the most part I would say that it is other kind of business in the manage- A still further saving was made by growth of crops which improve the because the farmer has failed to look ment of its everyday affairs, and in purchasing a one-half interest in a physical, chemical and biological con- far enough ahead and plan so as to the general readjustment of farming farm tractor and using it for plowing ditions of the soil. The growing of be able to maintain the soil fertility. going on today better efficiency meth- and heavy hauling about the farm. clover, grass and forage crops and He has worked hard but he hasn't ods are being put into practice. The The use of the tractor makes it possi- feeding them out to live stock enables placed a value on his time and tried man accustomed to fighting waste and ble to do the farm work with brood the farmer to derive two profits, one earnestly to live up to the standard lost motion in his business finds plen- mares and raise five or six colts each from his farming and one from his set. It may be best in a few instances ty of it to be eliminated on the farm. year. This adds a tidy sum to his net feeding, and leaves two-thirds of the to do work that will not yield a money If a farm is showing an annual deficit, income and the horses are in still bet- plant food on the farm. In order to value equal to the value of the labordeclining in productivity and falling ter shape to do a maximum season's make stock farming profitable one er's time, but in such cases the rebehind, the difficulty is usually to be work than when they had to do the must have efficient animals that are turns are ultimately received through found in what might be called, with plowing and heavy hauling. For the adapted to his business. Some of the increased beauty of the farm or all respect, its efficient administration. past two years the cost of operating inefficiencies in herds and flocks em- by way of other channels. Make ev-In some way it is not producing the farm has been cut down more than phasize beyond any question of argu- ery day's work pay and yield a profit enough good things for market, or is 30 per cent and the gross sales have ment the necessity for better and con- in addition. Farm life will then seem not selling them skillfully, or the op- increased 25 per cent. During this stant selection of animals that are easier and a real pleasure when it erating charges are too great. This time there have been no changes in adapted to the farms and branches of may have seemed a drudgery before. view of efficiency shocks the mind the labor force, and each man's work feeding that are being practiced. The that thinks growing big crops and sell- is done easier than before the changes ing them to the first buyer constitutes were introduced. Labor troubles are his stock as it is possible to grow on the sum-total of efficient management; reduced almost to zero by furnishing his farm, rather than pay one or sevbut a good many farmers are coming steady work and furnishing neat cot- eral prices to feed jobbers. He should round to the opinion that poor busi- tage homes for married men. Plenty bear in mind that the indirect benefit ness methods have no place on the of men are always waiting to fill in of stock feeding is to maintain soil strengthened by a bonus system, is an Poor business methods often begin attractive proposition to the thought- latter by raising his own feed and

Paying a Bonus for Efficiency.

In discussing his bonus system the prices for his feeding materials. wner said: "After making market New York. W. MILTON KE moral, social and educational phases their work and at times the bacterial THE VALUE OF THE FARMER'S ciency is just as necessary on the c. c. I tried every scheme I could farm, and pays as large returns, as in think of for several months, and I

working for his \$15 bonus and keeps tain crop due to bad weather condiwatch of the other fellows and quickly tions when he knew at the time that discovers if they become slovenly in his labors would not yield returns their work. By putting a premium on sufficient to pay him seventy cents a cleanliness and thoughtful work, a day for his trouble. The only excuse complicated problem was solved in a offered was that the crop was nearly practical way.'

Proper Adjustment a Factor in Efficiency.

feeder should produce such food for any vacancy, for the discipline, productivity and furnish a market for his crops and he should cash in the feeding it to animals that are capable of returning more than the market

W. MILTON KELLY.

TIME.

Everyone who works day after day came near abandoning the business in should establish a standard of value disgust. Finally I concluded that some for his labor, whether he be doing Not long ago failing health prompt- particular employe was careless in his office work in the city or merely plow- amounting to about \$150. Premiums ed a city man to retire to the country. work, but to discover the guilty party ing his own corn field where he be. are offered on peck entries of six He had a good business training—a was quite another question. After gins work when he chooses and quits types, Early Ohio, Early Rose, Irish partner in a large iron foundry in the studying the situation from several at night when he sees fit to do so. city—and he went about it in a thor- angles I called the boys into the dairy Perhaps it may not be an easy thing Mountain and Russet Rural. The first ough business way. He sat down with house and told them that although to establish this standard with ac. premium in each case is \$5, with from his foreman and compiled a list of ev- they might have the best intentions in curacy but the worker usually knows four to seven additional premiums for erything needed on the farm for the the world, that somebody was care- pretty well what he can accomplish in first year; opposite each item he set less in his work, and that I proposed a day and then it is an easy matter to down a definite sum. It was a long to find out who it was if I had to hire compare with what others are doing of \$2 each are offered for the best

ing cash and ordering from only a month for each milker and \$20 to the farmer whose motto is: save every- variety type exhibit. few dealers he saved more than 20 man who had charge of the milk room thing, even though it may take conper cent on local dealers' prices. Right and bottling if they kept the number siderable work. He has plenty to live three counties making the best showat the very beginning he discovered of bacteria below 10,000 every day in on comfortably for the rest of his ing and also to exhibits made by boys that by paying cash and dealing direct the month. They soon discovered the days without having to worry much and girls' clubs. Some special premiwith manufacturers and large city guilty parties and every man has re- about his present crop prospects and ums will also be offered. Write the dealers he could save 20 per cent. All ceived his bonus every month, except attributes his good fortunes all to this secretary at East Lansing, Mich., for of the feeds and fertilizers are pur- two, for the past two years. It did one characteristic of saving, but is he the premium list and send in an exchased at times when the markets are not take them long to trace the source right? I have seen him spend hour hibit that will take some of the favorable and when the men and of trouble when it reflected on their after hour with a hoe trying to kill prizes.

grown and he couldn't afford to see it wasted entirely, for want of care.

Again, I have seen other farmers Until recent years it seems as though who never seemed content unless they farm problems, whereas others are that a successful farmer must cut even farmers of sound business judg- were busy at something during every ment have hesitated to tackle effi- hour of the day, whether the work ciency problems on everyday business done was likely to yield a profit or be have been employed wonder is ex- against each crop and branch of his lines. Many of the farmers look upon a loss if judged from the standpoint pressed that so much fuss should be farming. The system was gradually farming as labor rather than business, of the value of labor. It may be that made over something that is not even changed until a high standard of exe- and they work for years and never get some men can work thirteen or fouranywhere-or get the farm anywhere, teen hours each day on the farm and farmers point to the methods of effi- in men and teams. The account sheet either. There are too many farms that do just as much per hour as if they ciency on their own farms, where they showed that the men and teams only are being operated with no definite worked only ten hours, but such perhave been in operation for years. So reached maximum efficiency for a few aim in view for the work and capital sons are certainly exceptions, for ordiwith all the explanation and discus- weeks during the spring. Each crop expended. Farm efficiency calls for a narily overwork means decreased effision, the whole subject of efficiency is seemed to demand attention at that careful adjustment between the difciency until very little can be done in still surrounded by rather a dense fog. time and considerable had been lost ferent branches, such as are neces- the longer than in the shorter time. Today the business farmer is at sea by not being able to give them all sary in the factory where the business Even should this not be the case, to know just what to do to put this proper attention. This necessarily cut is carried out with plain common wouldn't it be better in the average case to work a little less each day and When a trained business man looks spend the rest of the time learning better class of agricultural publica- So in a short time he substituted fall over his farm with an idea of develop- more about the business that is being tions since the idea became promi- sown wheat and rye in place of oats ing its latent resources he finds it nec- conducted, or else merely enjoying the

We read quite a good deal at prestwo more work horses and keep the leaves a valuable by-product to keep dition of affairs be attributed? For

> STATE POTATO SHOW AND MEET. ING.

The Michigan State Potato Association will hold its annual meeting at Kalamazoo, December 3 to 5. This meeting will follow immediately after that of the State Horticultural Society. The first session of the Potato Meeting will be held Thursday evening at eight o'clock. There will be a and regard it only as a place where they can work and live, provided opportunity never knocks at their door and calls them in some more profitable direction; but the farm has much more than that to offer. Its business, some of the men became careless in this important meeting. Write to C. W. Waid, Secretary, East Lansing, for a copy of the program.

Liberal premiums have been provided through the courtesy of the Kalamazoo Commercial Club and others, Cobbler, Rural New Yorker, Green each type.

Premiums of \$15, \$10, \$5, and ten list and he began to get prices from new men in every one of their places. and the prices that they are receiving. 10-peck display of any one variety in-I am very well acquainted with a cluded in the six types named in the

Suitable ribbons will be given to the

C. W. WAID, Secretary.

The Shape of Fields.

sion, that a quarter-section is to be might be. subdivided into four fields, and a four-

plish the desired distribution of the rangement. holdings into fields with the least possible outlay for fencing. There are other factors to be considered, however, besides that of the initial cost of fencing. Among these might be menfields without stopping the rotation or else running an extra line of fencing down the center of the farm and so making a lane.

Now if this is done, nearly as much fencing material will be required as would be the case if the farm were laid out into four fields measuring 40 by 160 rods, with one end of each field abutting the highway nearest the buildings. And how will it then be as to accessibility of the fields? With an arrangement of the gates along the road, it is apparent that the operations in each field could very conveniently be conducted from the road as an avenue of approach, rather than a lane built for that purpose. And since the lane would never be placed under rotation, but rather lie as a comparatively useless pasture strip of half an acre or more, it is evident that a greater amount of land will be utilized if the fields are laid out according to the long, narrow idea.

Long, narrow fields also have an advantage over square ones, when it comes to plowing, dragging, mowing, and the like. Take plowing, for instance; if each field is plowed in lands the furrows will be half a mile long in the narrow field, and one-fourth of a mile long in the square field. Then there will be just twice as many stops to turn the horses and jerk the plow around at the end of the row in the square field as in the long one. Usually one wants to stop a minute and rest at the end of the row, and doubtless better work is done, both by man and team, if a brief rest is taken in this way, but a man who plows two acres a day will, with a 14-inch furrow slice, reach the end of the field 54 times during the day with the long, other portions of the country acid the soil in a good state of tilth, insurnarrow field, and 108 times with the soils are found in many local areas ing proper bacterial action. square field. Allowing a minute to and nearby soils are now just on the is compelled to make 54 extra turns at guard against it? the end of the field.

planting corn, drilling grain, mowing, soils of lime to any extent, but it is a rather poor one. Applications of a path to his door, though it be in the cultivating, etc. Furthermore, it would the soils that have been under culti- various kinds of fertilizers will influseem that in marking out for plant- vation for several years that are ence to a certain extent the loss of That may have been true when the ing, one could do better work in a showing the loss of basic materials lime, as will also the use of manures. World was within walking distance of long narrow field where the fence and the resulting increase in acidity. Likewise the kind of green manures each man's door, and people had time square one where the fence is at a tors; first, the direct loss of lime this is done will have different effects needed. distance.

plums, apples, pears, and grapes. It that have never been plowed but not present. is a generally accepted fact that the to such an extent as in cultivated

N laying out a new piece of land interplanting of varieties with fruits into fields, or in replacing the old is advisable to secure the cross-pollifences with new, one frequently nation at blossoming time which leads square, or shall it be rectangular, and bound to be adjacent, while in a square block, the central trees are not

suggests itself is that of four squares, the thinking farmer, and wherever it

Benzie Co.

E. H. BROWN.

WHY SOILS BECOME SOUR.

areas. There are a few agencies that constantly return slight amounts of lime to the soil in either case but the

terial for proper growth.

Throughout large portions of the process acids are formed which are do not burn the leaves, but gather tioned the accessibility of the fields United States, especially in the east- quickly neutralized by the lime pres- them carefully to enrich the land. without the building of lanes. In this ern and southern states and in the ent but this means that the time when respect, it will readily be seen that corn belt along the Ohio river, there acidity will finally show itself is con- ing the leaves, it is not difficult to the square field arrangement is at a exists at present large areas of soils stantly approaching. Here, again, it point out ways in which they can be disadvantage, since it will be impossi- that are now sour and have been in is not possible to do more than par- used to advantage by anyone who ble to pasture stock in one of the this condition for several years. In tially control the losses by keeping owns a garden. Leaves make excel-

Making Use of the Farm Workshop on a Stormy November Day.

Iowa.

The natural growth on uncultivated

On the whole, we see that the derest and turn the team in each case, verge of developing this condition. velopment of acidity is not always the it will be seen that the long, narrow The question naturally presents itself, result of bad farming practices, but field will save an hour a day, nearly, why is this sourness continually in- rather a natural outcome of essential over the square one, in which a man creasing and is there any way to actions going on in the soil all the time. However, if this sourness is not corrected then we certainly have The same reasoning should apply to soils does not seem to deplete the a strong indication that the farmer is than anyone else, the world will make serves as a close guide, than in a This may be attributed to two fac- turned under and the time at which to go out and seek the things they through the drainage water and but in any case a certain amount of When it comes to orcharding, there through its use as plant food; and acids will be produced and ultimately our own work to make a path to any is again an argument in favor of a second, the production of acids from lime in some form, preferably in the man's door. We expect the man who long narrow block of trees of a given the decomposition of material in the form of ground limestone, must be ap- has something to sell which we should variety rather than a square block. It soil with the consequent destruction plied. The cost is not great but the have, to let us know about it, and to is in regard to cross-pollination, and of basic material present. It is true benefits derived will certainly be see that it is placed within our reach. applies especially to many varieties of that the same actions occur in soils large if the soil is at all sour at

F. E. ALLISON.

UTILIZING THE LEAVES.

The odor of burning leaves so charquantity is too small under ordinary acteristic of late autumn, indicates farming conditions to equal the one of the methods of waste in this country. Farmers and gardeners seem The principal loss of lime is by to forget that the leaf mould which has a chance to make the shape of the to the best results. In the long, nar-leaching as an indirect result of bac-made the new land so fertile, is exfield as he wishes it. Shall it be row block of trees, another variety is terial action in the soil constantly cellent to restore fertility to the old, changing the insoluble material to the worn-out soil. In nine cases out of soluble form. It is necessary that ten, the leaves from the lawn and Suppose for convenience in discus- so subject to cross pollination as they bacteria live and multiply so it is not door-yard are raked to the roadside or possible to control this loss to any ex- other convenient place and consigned On the whole, the advantages of the tent without also causing a decrease to the flames. Doubtless the man with year rotation carried out. Each field long, narrow field, garden, or orchard in crop production. For most crops a hundred-acre farm considers this will then contain forty acres. The over the square-shaped plot seem to very little lime is required for actual leaf crop too insignificant to bother first way of laying out the fields that commend themselves very favorably to use by the plant as food. Alfalfa may with, if, indeed, he takes any thought be considered as an exception since at all about the matter. Owners of made by running fencing so as to bi- is possible to choose between the two for every ton of hay produced about gardens and small truck farms burn sect the quarter-section in each di- methods of management, one should fifty pounds of lime are incorporated the leaves and buy fertilizer instead. have little difficulty in reaching a de- into the plants as a vital part of their The waste of these leaves is a factor Such an arrangement would accom- cision as to the more practical ar- make-up and as a very essential ma- in the condition of land impoverishment for which America is famous. In Organic matter must be constantly the old world where each acre of supplied to the soil which is of no use ground is kept fertile century after to the plant until it undergoes a cer- century, nothing is wasted, and fortain amount of decay, but in this very eign truck gardeners in this country,

> In considering the question of utilizlent mulch for strawberries, raspberries, grape vines, or any other small fruit. Small fruit trees may be mulched with leaves, and the asparagus bed may be enriched from the same source. Leaves afford excellent material for use in the scratching rooms of poultry houses. When the houses are cleaned, these leaves mixed with the droppings, afford a garden fertilizer that will bring back the fertility to any garden spot. If the leaves are not needed for any of these uses, they may be spread over the garden in the fall and covered with enough soil to keep them from blowing away. In these ways, the annual leaf-crop may be used to advantage by all who possess a berry patch, a flock of chickens, or a garden spot.

> In considering the question of leaf utilization, it ought to be borne in mind that the leaves from a few trees are worth saving, even though the patch of ground they will fertilize is relatively small. When other fertilizers seem of little avail on land that has been cropped to excess, the leaves which gave to the land its virgin fertility, may prove the best means of restoring its fruitfulness. At any rate, what seems in an individual case, so slight a thing, amounts in the aggregate, to a great deal. Save your leaves and utilize them. The extra labor is small, and the influence on land fertility is sufficient to make the saving worth while. Help to set the example of thrift in this regard. The waste which characterizes farming and gardening in this country, may be counteracted and checked by the use of the resources which remain. Save the leaves, and you will find the trouble worth while.

Hillsdale Co. J. A. KAISER.

WE HAVEN'T TIME TO "MAKE PATHS."

Was it Emerson who said that if a man makes but a mousetrap better

Today most of us are too busy with

One of the purposes of the Michigan Farmer is to carry such merchandising messages. Are you reading them?





Fairbanks, Morse & Co.

Detroit - Chicago



Appleton Mfg. Co. 620 Fargo St., Batavia, Ill.

used by principal maple syrup makers everywhere. Saving of time and fuel alone will pay for the outfit. Write for catalogue and state number of trees you tan.

GRIMM MANUFACTURING CO. 169-621 Champlain Ave., N. W. Cleveland, Ohio

Pulverized magnesian lime rock for "sour" soils, Write for LOW Summer Prices direct to you from Muskegon and Benton Harbor, Michigan LAKE SHORE STONE CO., Milwaukee, Wis.

Finely pulverized, made from highest high calcium stone. Quick shipments in closed cars. Let us send sample and price.

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—You should get the highest grade of limestone manufactured. Buy it upon the basis of analysis. We manufacture the highest grade pul-verized limestone sold in Michigan. Ask for sample and analysis. Let us prove it. Ask for sample and analysis.

CAMPBELL STONE CO., Indian River, Mich.

LILLIE'S SPECIAL BRANDS BUFFALO FERTILIZER

Agents wanted in unoccupied territory. Ship di-rect to farmers in carlots. Fertilizer questions answered and farm soil surveys made on request. Colon C. Lillie, Sales Agt., Coopersville, Mich.

Horticulture.

GARDENING IN THE CELLAR.

cellar can furnish a pleasing supply of green products for the table during the cold months, yet such is the case. These things are also doubly precious to grow in the cellar is parsley. None laws. These were prepared many in the winter when supplies are limit- is more welcome in the winter salads years ago, and in some respects are ed. Few farmers and fruit growers have the facilities or time for green- everybody should have it. Simply take the State Society. This matter will house vegetable growing, but the up the plants from the garden rows be brought up at the annual business green things I am writing of are and set them in boxes, keeping the grown without artificial heat of any soil only slightly moist. Parsley will sort. Rhubarb is so commonly forced in market garden centers that it is not necessary to dwell on its possibilities to any extent. It is something bit of life to the mid-winter dinner everybody should grow, for home use, that is quite worth the small effort at least. I take up the roots just before the final freeze-up of the ground and set them in the bottoms of barrels and cover with ordinary garden as has been stated. They are also of soil, packing the roots in closely with earth. Manure is unnecessary, as the plant grows from stored-up vitality in the cellar. I take up a few pepper the roots and not from outside fertilnorth side of a building and roots and soil are frozen solid. In this condi- inch pots. They are then put by an tion they may be left as long as de- open window in an unused room upsired. When ready, take them into ually. Cover the barrels with some-Total darkness is needed for the best product.

A Winter Supply of Asparagus.

should be set in boxes of earth and allowed some light. Where rhubarb will do well at a comparatively low temperature, 40 or less, asparagus will not grow much in a temperature plants, but not much in the way of of less than 50 degrees. In a cellar, fruit from them can be expected beheated by a furnace, asparagus may fore the following spring. be grown to perfection. Even in the ordinary cellar temperature it will grow and thrive quite beyond expec- PROGRAM OF ANNUAL MEETING Smith. tation. Experiments with French artichokes have also proven that this delicious vegetable can be forced in the same manner.

Aside from the plants that are forcvegetables may be grown in the cellar windows. Make boxes to fit the windows which face the east and south. Knights of Pythias Temple, on DecThese should be about three inches in ember 1-2-3, 1914. The display of Mrs. Henry Hulst.

denth and six inches in width. Boxes spray machinery and materials will be "Cichts and scenes of the Michigan"

ing for two or three months. Leaves view-good "live men," all of them. may be removed as desired for salads and others will enlarge to take their available at all seasons of the year President Munson, will preside.

maining for some time in the cellar, charge. where they will make a slow growth, Through the withdrawal of the state result that a supply of mint for de-ciety is to be a force in progressive fit of water before freezing does serlicious sauces will always be avail- horticulture, it must have the support ious damage.

able. The fresh green leaves are much State Society meetings. better than the crisp dried ones, usu-It is not generally known that the ally the only thing to be had in the winter.

Parsley Easily Grown Indoors.

and it is so easy to keep a supply that not adequate for the present needs of thrive even though the earth in the the discussion. boxes may chill at night. A sprig of parsley, fresh and green, will add a needed to grow it.

The kitchen windows are valuable as auxiliaries to the cellar windows, value to grow other plants that require more heat than is obtained in stairs, where they are allowed to grow even two or three pots will furnish. rooted, and make pretty window interest for your own work.

CHAS. H. CHESLEY. N. H.

OF STATE HORTICULTURAL SOCIETY.

Kalamazoo, the "Celery City," is the city selected for holding the fourtyed from dormant roots, a number of fourth annual meeting of the Michigan State Horticultural Society, which and Morrill.

Tuesday, 8:00 p. m. will be held in the Auditorium of the depth and six inches in width. Boxes spray machinery and materials will be

depth and six inches in width. Boxes of zinc will last a number of years and made in the spacious basement, where may be removed to the kitchen in case of a severely cold day.

Growing Lettuce in the Kitchen Window.

Lettuce that was planted late in the summer or in the early fall, and has made a good growth, may be transplanted to such boxes and kept growing for two or three months. Leaves when the desire of the materials will be made in the spacious basement, where "Sight and scenes of the wednesday, December 2, 9:30 a. M

A Woman's Session.

As a special feature this season, a place. I have never had any success session for the ladies will be held on Ballard.

Wednesday afternoon December 2, in "How I run the farm," Mrs. C. B. with sowing lettuce seed in cellar box- Wednesday afternoon, December 2, in es, but in the kitchen window it will a room adjoining the auditorium, es, but in the kitchen window it will a room adjoining the added and some and some into good-sized plants where they can meet in an intimate orchard," Mrs. J. O. Fraleigh.

in a few weeks. There is no reason way and discuss matters pertaining wednesday, 7:00 p. m.

Annual banquet, toastmaster, Hon. Chas. W. Garfield.

At the annual business meeting will grow readily and furnish a bounti- 1913, it was decided that hereafter evwill grow readily and furnish a bounti- 1913, it was decided that hereafter ev"Pointers on modern spraying," Mr.
ful supply in a few weeks. If some- ery person attending these meetings O. K. White. thing with an onion flavor is desired be required to pay either the life
for winter salads, there is nothing betmembership fee (\$5.00), or the annual
cold storage on the farm," Mr. Clark
ter than the old-fashioned chives membership fee (\$1.00), by virtue of Allie for winter salads, there is nothing berter than the old-fashioned chives. membership fee, (\$1.00), by virtue of Allis.

"The Grape Outlook," Mr. Hale Ten-Take up a few clumps and set them in which each person is entitled to a the cellar boxes, wetting the soil copy of the annual report and admistrate the cellar boxes, wetting the soil copy of the annual report and admissible to the cellar boxes, wetting the soil copy of the annual report and admissible to the cellar boxes, wetting the soil copy of the annual report and admissible to the cellar boxes, wetting the soil copy of the annual report and admissible to the cellar boxes, we can be compared to the cellar boxes. thoroughly, as these plants grow nat- sion to all sessions of the society. Waid. urally in a moist location. After re- Families of members admitted free of

take them into the kitchen and a rap- appropriation, it became necessary to this fall if the infestation of scale is id growth will result. Spearmint may raise funds in another way, and the serious. be treated in the same way with the above plan was devised. If the so- Don't forget to drain your spray out-

annually of its members. Contributions from auxiliary societies have been so small that it was deemed wiser for them to retain their own dues, thereby allowing them larger funds to conduct their own work, and pay the expenses of their own delegates to the

Changes in the Constitution and By-laws.

At the mid-summer meetings, notice was given of the necessity for various One of the most satisfactory plants changes in the constitution and bymeeting and all members are urged to attend the session and participate in

> The annual banquet will be held on the evening of the second day, in charge of one of the ladies' societies of Kalamazoo. The fact that the Hon Charles Garfield, of Grand Rapids, will act as toastmaster, is an assurance of a most delightful affair. The rate is 50 cents per plate.

Potato Growers' Meeting.

The convention of the Michigan plants and egg plants, which have not State Potato Association follows im-These barrels are left on the fruited heavily, and, after consider mediately after these sessions and able pruning, set them out in eight- the display of potatoes and potato growing machinery will be made in the exhibit hall of the same building.

This has been a prosperous year for the cellar and let them thaw our grad- until severe weather comes on, when the horticulturist and this meeting they are removed to the kitchen. It should be attended by every up-tothing to exclude every ray of light. is surprising what a number of fruits date grower." Come and bring the boys who are to be the future farmers The pepper plants, with bright green of our state. Likewise bring the wife, leaves and white flowers, are also of who has worked so hard and patient-Asparagus is sometimes forced in considerable decorative value; while ly for the success of the farm and the same way, except that plants an egg plant with large purple leaves family. Get away from home and enand ripe fruit is something that will joy a friendly exchange of ideas with attract a lot of attention. Cuttings your Brotherhood of Fruit Growers: may be taken from tomato plants and it will give you fresh enthusiasm and

Tuesday, December 1, 10:00 a. m.
"Ten years of fruit growing in Kalamazoo County," Mr. E. F. Stoddard.
"Co-operation that co-operates," Mr. Geo. Myhan. "Growing Small Fruits," Mr. Henry

Tuesday, 1:30 p. m.

"My experience with many kinds of fruit on a small farm," Mr. T. A. Farrand.

"Planning the work on a 200-acre fruit farm," Mr. Clark Allis, of New

The marketing problem," Mr. Rol-

H. J. Eustace.

Women's Session. "A woman's life on a farm," Mrs. R.

Cook. "My share of work in handling the

Thursday, December 3, 9:30 a. m.
"A woman farmer," Miss Addie Sly. Radish seed sown in cellar boxes held in Traverse City in December, and a few others," Prof. Pettit.

R. A. SMYTHE, Sec.

Use lime-sulphur at one to eight

Management of the Brood Sow.

animals kept by them.

failure and losses.

should be bred to farrow is of prime former use. importance. Heavy losses very often come from too early farrowing in the vember for fall litters.

ally possessed by mature animals, the proper amount of exercise it is a good der shows that each 100 pounds of young sow is likely to be uneasy and cause the loss of many small pigs. They should not be bred before they are eight months old, and ten months is better, and it is best to encourage the development of bone and muscle before they are bred at all, because they have a double office to perform, that of maintaining themselves and keeping up the growth of their own bodies at the same time they are carrying the young. Breeding sows too young tends to early maturity and reducing the number of pigs in the litter and the size of the animals themselves. To breed sows on the fourth day after farrowing does not generally bring satisfactory results, and we do not therefore recommend farmers to experiment in that direction.

Diet for Brood Sows.

The brood sow should have a varicondition at breeding time. Sows had the experience necessary to prove ance of exercise and the use of cer-roughed through the winter on corn what is required of the breeding ani- tain kinds of feeds, especially those fodder or straw, without a supplemal during this critical period. While that are rich in protein, we will cau- mentary grain ration, must gradually feeding well during the period of ges- trated feeds and too much tankage, body, and thus lose in weight and tation, we wish to caution against which tends to cause the pigs to be strength. When spring opens, the heavy feeding of feeds that tend to limp and lifeless while young. fatten instead of promoting health, bring about disastrous results.

Some succulent feed should be givof more loss at farrowing time from a fevered condition, which induces delirium and the sow to eat her pigs, farm the sire should be given a great usual allowance in two, or to 12 ears than any other one thing we can men-degree of consideration. As an almost of corn and 10 pounds of hay, and tion. A small amount of roots can be invariable rule, the mature sire gives feeds in addition to this all the corn fed with safety, but do not feed heav- better results than the immature sire. fodder the horses will eat. Thus, if ily on roots during severely cold Sows bred to mature sires of good the allowance of corn and hay is inweather, as it will chill the sow and form, strong, healthy, and of prolific sufficient for the needs of the animal, often induce premature delivery.

be furnished during the winter. We ture sires, no matter how well bred. In winter much of the food consumknow of nothing better than alfalfa The practice of allowing the sire to ed by animals is used to keep up the and clover hay, and if it can be steam- run with the herd of breeding sows heat of the body and, this being true, ed and mixed with a sloppy feed, all we would discourage for several rea- the advantage of having good warm

losses caused by bad manage- the breeding animals in the herd, the self during the period of gestation, or ment of the brood sow than with careful breeder finds it an absolute with a herd of sows, and make the any other kind of breeding stock kept necessity. Designation marks can be quarters comfortable at all times. The on the farm. Many farmers seem made upon the ear and a record kept matter of comfort during this period very indifferent toward the brood sow, in the record book as to time of breed- has much to do with the disposition of while they bestow a great deal of at- ing and the time when the pigs are the progeny. tention and care on other breeding expected. Previous to the time of the arrival the sow should be given a George A. Brown, at the Michigan The management of the brood sow comfortable pen by herself, in which State Round-up Institute). should be systematized and carefully there is a reasonable amount of fine, planned to secure the best possible dry litter, but avoid a large amount results. The income and the profits of litter, as the pigs are likely to get depend largely upon the management entangled in it and laid upon. A recof the brood sow previous to breeding ord of the feed given during the peand during the period of gestation. To riod of gestation and during the first working season is over, the horses are neglect to give the proper attention three weeks after the pigs are farrow- made to rough it, that is, they are at this important period is to invite ed will enable one to refer back and made to eke out their entire livelifind which methods, if more than one hood from straw, corn fodder, or any The time of year when the sows are adopted, have succeeded best in other waste food that may be about

Exercise.

winter and early spring. In this cli- with the brood sow, as she cannot be kept up, if the horses are to keep in mate it is not safe to plan for arrival maintained in a healthy condition good order, and be ready for the hard of pigs before March. The season without an abundance of exercise pre- work expected of them in the spring. should extend from March to June for vious to breeding and during the pe- According to the information gathspring litters and from August to No- riod of gestation. Exercise enables ered by the experiment stations, a the sow to keep control of herself, and horse of ordinary size, at rest, or do-It is a great mistake to breed young if not overloaded with flesh, they will ing light work, will require about 25 sows too young, and it is another mis- be nimble, active and strong. Sows of pounds of food a day. To keep the take to plan to have them farrow the improved breeds that are inclined animal well nourished this food should early in the spring, or during cold to take on flesh readily are inclined contain two pounds of digestible proweather. On account of the lack of to remain in the nest too much. In tein and about 12 or 14 pounds of carsize and lack of quiet disposition usu- order to encourage and enforce the bohydrates. An analysis of corn fod-

harm during the period of gestation; | and thirdly, it is injurious to the sire. Then by all means breed the sow at THERE is a larger proportion of amount of trouble to keep records of the proper time and keep her by her-

(Excerpts from an address by Prof.

N. A. CLAPP. Wayne Co.

WINTER FEEDING OF HORSES.

On many farms, after the active the place. While horses not engaged in active work require less food, the Exercise is of prime importance quality of food supplied should be



ety of feeds and should be in good Feeding the "Mortgage Lifters," on the Farm of John D. Heer, Monroe Co.

produce large litters, healthier and cattle, or to travel some little dis- of protein, and about 35 pounds of stronger pigs. They should be kept tance to the feeding place at least carbohydrates. Thus, it is seen, that gaining from time of breeding to time twice a day. Exercise is one of the in order to be properly nourished, the of farrowing. This is an important best preventatives of many diseases horse would have to consume 50 suggestion too often overlooked by that overtake the brood sow and her pounds of corn fodder each day. This, the average individual who has not pigs. While we suggest the import- of course, is impossible, and the horse we urge the importance of feeding and tion against the use of highly concendraw upon the stored-up energy in its

strength and growth. To get the sows be kept where the sow can help her- and the probabilities are that he has fat during that period is to invite dis-self, and we suggest the following decreased in value two or three times aster, because they will become clum- combination of fèeds that will serve the value of the food needed during sy and lazy, which is pretty sure to as a corrective of many difficulties, the winter months to have kept him especially internal parasites:

en during the whole period of gesta- bushels of wood charcoal; one bushel horses and always brings them tion; also some laxative feed like of wood ashes; eight pounds of salt; through the winter in good shape. wheat bran should constitute part of two quarts of air-slaked lime; half a During the heavy working months, he the ration. Constipation is the cause pound of copperas, thoroughly mixed. feeds daily to each horse, 24 ears of

The Sire.

Forage feeds of some kind should than when coupled with young, imma- to complete the ration. sons. First, they are an annoyance. barns is obvious. While it may seem to some a large Second, they are likely to do much

when gaining at breeding time will plan to allow the sow to either follow the food contains about four pounds horse is so weak that he is unable to Mineral matter of some kind should do the heavy work expected of him in good order.

Two bushels of bone meal; three A farmer of this locality keeps 12 corn and 20 pounds of good hay. With every breeder of hogs on the When the horses are idle, he cuts the families, will give much better results he can always turn to the corn fodder

T. Z. RICHEY. Indiana.





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light any job around the farm. Only 3 moving parts, no cams, gears, sprockets, etc. Send for COMMON SENSE Detroit Engine Works,

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Dairy.

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WHAT IS MEANT BY REGISTER OF MERIT RECORDS?

You have spoken several times in your dairy notes of the "Register of Merit class." I would be interested to know just what that is. We are interested in large producers ourselves. We have a cow that in just 12 months after her second calf, gave 12,047 lbs. of milk. She has recently closed just after her second calf, gave 12,047 lbs. of milk. She has recently closed just six months since her third calf and in that time gave 9,381 lbs. of milk. We have never had her milk tested but have saved a day's milk and churned the cream, and get just five per cent butter. Do not know the exact per cent of butter-fat in butter but suppose her milk is somewhere near four and a half per cent milk. The largest mess of milk she ever gave in one day was 74 pounds. H. W. T. Register of merit records are simply

Register of merit records are simply tests of Jersey cows under the super-

make the test, and does not have to chews it. pay the traveling expenses to and from the experiment station each WILL IT PAY TO SELL RYE AND month.

The requirements for authentic tests are different for the different breeds, according to the ruling of the particular breed association. Mature Jersey cows must produce 360 pounds of butter-fat in one year to be eligible to the Register of Merit. If they protered or registered in the R. of M. by paying a fee of \$2.00.

Of course, these R. of M. records testing, and testing is bound to develop the cows. Since the system became operative, more than 3,000 Jerproduced above 500 pounds of fat, and as is well known, some have produced vision of the American Jersey Cattle 1,000 pounds of fat in one year. Au-Club. Other breeds have similar su-thentic testing is becoming more and pervised records, but they are known more popular with all the breeds. It by different names. Years ago all we pays, for a cow that will produce tests proved to be unusually large, is a profitable cow. Her heifer calf is They said that the owner of cows pad- bull calf is also worth more. Testing ded the returns, because the cows cows places dairying on a business

Kilnford Bell 3d., Grand Champion Ayrshire Cow, and Champion over all Breeds at the National Dairy Show. Exhibited by Adam Seitz.

the results be beyond dispute. At prove. first the A. J. C. C. required that a sonal supervision to the test to make test his cows. Finally the club deletata I would like to feed to the milch gated the supervisor of tests to the various state experiment stations.

I have a lot of potatoes and apples that I would like to feed to the milch cows. Will they decrease the milk supply?

J. S. Apples and potatoes are both. it authentic. This proved so expenthan twice daily. Then a representa- with a small amount, just a few, and too much for any salvage barley visits the herd each month and super- gradually increase till each cow is it is at present. days. Of course, if the yield of milk don't feed more than half a bushel SUCCESSFUL HOLSTEIN SALE. each day did not compare favorably, daily. mated from that.

lessens the expense still more. The fed in their stalls, but if fed in the for a cow.

could not produce such phenomenal basis. You know what your cows are yields. Therefore, breed associations doing, and by selecting the calves were compelled to devise some sys- from the best cows the production of tem so their cows could be tested and the breed will slowly but surely im-

representative of the club give per- APPLES AND POTATOES FOR THE cows.

This lessens the expense of testing succulent foods for cows if fed propvery much and puts the cost so that erly. When these products are fed to

night and morning, and at noon or should be fed in about the same vises the test for two consecutive feed them twice a day if desired, but

test rejected. The station representa- your cows, but will tend to increase Howell, Friday, October 23, called out tive samples and tests the milk pro- the flow. Where people have had trou- a large attendance, probably the largduced while he is present, and the ble is by feeding entirely too many est crowd that ever attended an aucbutter-fat for the whole month is esti- apples or potatoes at a feed. This tion in Livingston county. The sale gets the cow out of condition and, of began promptly at 12 o'clock and it In communities where there are course, decreases the flow of milk. was dark when the 106th cow went cow testing associations in operation, Care must be taken in feeding apples under the hammer. The average per the experiment station makes the cow or potatoes, or the cows are liable to head for 98 females sold was \$226.63. tester their representaive and this choke. There is little danger when Albin Pfau topped the sale at \$450-

farmer simply has to pay the tester lot, one cow drives another, causing for one day extra that is required to her to swallow the apple before she

BUY SALVAGE BARLEY?

Will it pay to sell rye for 78 cents per bushel and buy salvage barley at \$1.46 per hundred, mixing it half and half with rye?

Ogemaw Co. Salvage barley, or salvage grain of any kind for that matter, varies so duce that much fat, they can be en- much in quality that one could not give an intelligent opinion of its value unless a sample could be seen and examined, and even then one can hardly are no better than private records, but tell what it is worth compared to firstthey are above suspicion. This sys- class grain. Live stock will eat the tem of testing is doing very much for salvage grain if they can get no oththe various breeds. It encourages er, but the question is, how much better would they have done had they been fed first-class grain? It is not entirely the cost of the feed; quality sey cows in Class A have made the must be taken into consideration. record. Several hundred of them have The better the quality, the more appetizing the feed, and the more appetizing, the more the animals will eat and the faster will be the gains, or in the case of dairy cows, the more milk they will produce. If one had very poor, unwholesome feed it would be possihad was private tests; when these 360 pounds or above of fat in a year ble that stock would only eat enough of it to keep them alive. That is, some people would not believe them. worth more for a future cow, and her they will make but little or no gain, or would produce a very small yield of milk. In such a case we would get practically nothing for the feed, for feed must keep the animal alive and also make growth, or there is no chance for gain or profit. A farmer once boasted to me how cheaply he had wintered a bunch of fall pigs, the pigs, however, had made no growth; they did not look to me as if they weighed as much in the spring as they did in the fall. Now, in this case, the farmer lost practically all the feed he had fed to them during the winter, for he had no increased weight in his pigs to show for it.

In the same way, if we feed salvage grain that our animals do not like. they will not eat enough to produce milk or to make good growths and we have little to show for the feed we have fed. The feed may seem to be cheap, yet considering the results, it is very dear in price, and results are the only correct standard to judge by.

All salvage grain that I ever saw is smoky and dirty, it is not very appetizing, and must be purchased very cheaply to make it profitable. The price named, \$1.40 per 100 pounds for salvage barley is very high; I never supposed salvage grain sold as high as that. I don't believe it is worth this money. Prime wheat bran can be bought for \$23 to \$25 per ton in car lots, and I believe it to be worth more than salvage barley for cow feed. I am sure it is worth more to mix with rye than the salvage barley for cow feed. For hog feed the barley might be worth the most. Having no opportunity to inspect the barley, but simply judging it by samples I have seen of other salvage grain, I do not hesitate to say that in my judgment it will not pay to sell the rye and buy salvage barley at \$28 per ton. would recommend selling some of the more can afford it. The farmer must cows they are usually very cheap, and rye and purchasing some wheat bran keep a record of each milking, both people feed them too liberally. They to mix with ground rye for cows, or midnight if the cow is milked more amounts as turnips or beets. Start in rye for hogs; \$28 per ton is entirely wheat middlings to mix with ground tive of the state experiment station eating a peck at a feed. You could ever saw, when other feed is the price

suspicion would be aroused and the Fed in this way they will not dry up The sale of registered Holsteins at

rposition

The business of farming

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-From "Numancia"-Cerventes.

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DETROIT, NOV. 21, 1914.

A FEW LEADING ARTICLES OF THE WEEK.

Efficiency on the Farm.—The third in our series of 52 special articles to be published in consecutive issues446 The Shape of Fields .- An argument for rectangular, instead of square fields for economy in farm work Management of the Brood Sow .-Essential points in management which make for success with the pig crop449 Gardening in the Cellar.—How many table delicacies may be grown at small expense during the winter season.....448 Michigan Farmers are Co-operating .- A survey of the efforts of farmers in Michigan to solve their marketing problems.....461 The Contributions of Poultry to Food and Diet .- Dietary considerations of eggs, composition, quality, preservation, etc......464

IN AMERICA PEACE.

For a Thanksgiving cover design our artist very reluctantly abandoned at the last moment, a sketch he had federal department has authority to carefully developed in the expectation create a deficit, and that the funds of born of fervent hope that peace would the Department of Agriculture which The Fall certainly, ere this date, have halted the unspeakable horrors of the war ficient to more than pay the salaries that is soaking the soil of Europe with and expenses of the agents of the De- man of the house, but it holds a valuthe blood of its best, its most promis- partment in the work of suppressing able lesson for him in the matter of ing, manhood and ruthlessly destroy- the epidemic. Under the plan which method if he would but apply it. The ing the products of centuries of civil- has been followed in the suppression farm is in just as great need of a good ization's toilsome progress.

hate

Robbery, fire, murder, rule the state, Blind crazy, weltering in their gore, Men see the light of truth no more." ing conflict seems about to involve the ment and one-half by the state in a neat appearance about the farm, Moslem hordes of Turkey, the Orient, which the owner resides. The solu-finds it impossible to keep all his and Northern Africa, to be followed in tion of the present dilemma lies in premises in "show" condition during

Italy and Spain. tragedy of Rienzi, the hero,

and bountifully spread with the riches outbreak of foot and mouth disease habit.

of intelligent husbandry, labor and was not discovered and its exterminacommerce.

The Lawrence Publishing Co. the Republic stands majestic and ser- discussion of this phase of the situaglobe surmounted by the eagle, in all ter the disease has been eradicated more modern symbol of liberty.

CURRENT COMMENT.

The Foot and Mouth Disease Campaign. and mouth dis-

can now be used by the U. S. Depart- pected appearance of the disease. ment of Agriculture for this campaign are insufficient to cope with the situation on the plan originally followed, and the issuing of new orders to the effect that no infected herds exceeding \$200 in value should be destroyed without first referring the matter to the Department, caused a fear in many quarters that a less vigorous policy in the extermination of the disease might become temporarily necessary. Later information, however, seems to insure that this will not be the case, if the owners of infected herds show a willingness to co-operate with federal and state authorities in stamping out the infection.

are available for this work are insuf- Clean-up. ing" comes twice a year is

tion undertaken before the infection On our cover design the Goddess of became so widely scattered. But the ene, holding aloft in one hand the tion at this time is not pertinent. Afages the symbol of the lofty and noble the responsibility for its spread over in human thought and inspiration; such a wide area may be investigated while the other hand holds upright the and definitely fixed, but just now the important work in hand is the eradi-To the people of the old world our cation of the disease, which good auhearts go out in sympathy for the tax- thorities agree must be accomplished grinding militarism and its logical se- within a year if at all. An investigaquel of cruel, decimating war and tion of its origin is, however, a matweakened crippled future centuries. ter of more immediate concern which Far sweeter is the picture in our should be determined as quickly as ger from a similar source may be eliminated. The last outbreak of the disease in this country, which occurred in 1908, is now generally conceded to have been due to the importation of seven Russian armies are now marching on Cracow, the total number of ent outbreak is thought by some who have been in close touch with the situation to have been caused by the importation of hides, either from the Philippines or from South America. passed away This is a matter which should be thoroughly investigated at once, and The campaign upon which Congress should act withbeing waged out delay as soon as possible after it against the foot convenes next month.

> In the meantime it is obviously the ease, which has been vigorously pros- duty of every farmer to use every preecuted by both federal and state au- caution to prevent the further spread thorities since the outbreak of the of the infection and to co-operate wilepidemic is, due to the spread of the lingly with the federal and state auinfection to so many localities in so thorities in the quick location and many states, proving far more strenu- prompt destruction of infected herds. ous and expensive than was anticipat- This can best be accomplished by obed. From recent developments it ap- serving quarantine rules to the letter pears that the available funds which and by promptly reporting any sus-

Something of the importance of eradicating this disease before it becomes general will be appreciated by a consideration of the annual losses to the farmers of the country from hog cholera, to which foot and mouth disease is comparable in its infectious character, especially when it is remembered that foot and mouth disease is a far greater menace to the live stock industry from the fact that it infects both cattle and sheep, and other stock and humans to some extent, as well as hogs. Unquestionably the policy of extermination should be continued to a successful consummation, and with the active support of It appears that under the law no every live stock owner in the country.

> The regularity with which the general "housecleansometimes trying to the

of other similar epidemics and which "cleaning" as is the house, at least "The light of love is quenched with has been the understanding in the the average farm. Some farmers present campaign, one-half of the ex- make a hobby of keeping everything Peace has not come and the extend- ed is borne by the federal govern- he may appreciate the importance of turn perhaps by the Balkans, Greece, the willingness of owners of infected the rush season. And it must be conthe willingness of owners of infected the rush season. And it must be con- For the purpose of bringing the animals to wait for compensation un- ceded that from the practical stand- bankers of the state into closer touch In the tragedy of Rienzi, the hero, til Congress can make a special aplanetting the decadence of the times, exclaims, "Why! In that elder day, to be a Roman was greater than a Kins."

May we now, not in sorrow and despair: but in joy and exultation, with pride and thanksgiving, with kindling eye and warm throbbing hearts, rejoice that we are Americans?

We may well rejoice that peace reigns over all our fair land that stretches from ocean to ocean, unceasing its song of industry except while

"Sleep, tired nature's sweet restorer Gathers up the raveled sleeve of care," and bountifully spread with the riches til Congress can make a special appoint there is a "happy medium" be-

HAPPENINGS OF THE WEEK.

Foreign.

The European War.—In the western theatre of the great war no general operations have been reported but the operations have been reported but the violent fighting at the extreme west end of the line of battle near the North Sea and on the banks of the river Yser has indicated a weakening of the German position and advantages gained by the Allies. The invaders have abandoned the west bank of the river and the Allies have gained a ers have abandoned the west bank of the river and the Allies have gained a small wood south of Bixschoote. Dix-mude, which was taken by the Ger-mans last week, is stated to be again in the hands of the defenders. Noth-ing of import has been reported to the outside world as occurring along the remainder of the western line of oper-ations. In the east the Russians have been gaining ground. They have ing on Cracow, the total number of men aggregating 2,400,000. Japanese and English fleets are now moving toward the south Pacific Ocean to engage the German fleet believed to be in that quarter of the world.

Field Marshal Earl Roberts, the fa-

mous English general, died last week in a British camp in France. He had just arrived on French soil a few days before, and had reviewed some of the Indian troops and conferred with the British officers on the night before he passed away

The British dreadnaught "Audacious" is reported to have been sent to the bottom by a mine off the coast of Ireland. The entire crew of the battleship was saved.

Reports from Mexico indicate that the prospects for peace between Carranza and the Aguascalientes convention are brighter than they have been at any previous time. The announcement that the American troops would be withdrawn from Vera Cruz has brought protests from Villa and his followers as such withdrawal would throw the port into the hands of Carranza. Villa is reported ready to attack Tampico.

tack Tampico.
Up to the end of October, over 15,000,000 bushels more grain had been carried through the Lachine Canal in the St. Lawrence River than to the same date last year. Besides the amount of flour going through had nearly doubled. This increase is due almost entirely to the heavy demand for wheat and flour abroad and for the large amount hervested in America large amount harvested in America last fall.

National. The situation of the foot and mouth disease epidemic is about the same as a week ago. Farmers and stockmen are still anxious about the outcome. The Chicago stock yards have been cleaned up and were reopened Monday. The yards at Detroit will probably be opened for shipments this week. The authorities state that if the disease is not completely wiped out within a year that he country can never expect to be freed from it and never expect to be freed from it and that the detriment coming to those who raise and sell stock will be enormous. For this reason every effort is being made to locate suspicious animals and the co-operation of those who own stock is necessary in the

It is announced that an effort will be made at the next session of Congress to take the rural free delivery carriers out of the civil service classification and open the various routes to competitive bidding. Postmaster To competitive bidding. Postmaster Burleson favors the change because he believes it will result in a saving to the government of from \$12,000,000 to \$20,000,000 annually, and in better

service the country over.

The campaign in the interest of the persent campaign, one and of the stock destroypense of compensating the owners for picked up about the farm at all times, proposed amendment to the federal
the utility value of the stock destroybut the average farmer, even though constitution prohibiting forever the
sale and manufacture, importation and exportation and transportation of in-toxicating liquors was started in Michigan last Sunday, with addresses given at Detroit by men of national reputation.

with each other a plan of the state association to hold sectional meetings,

Magazine Section

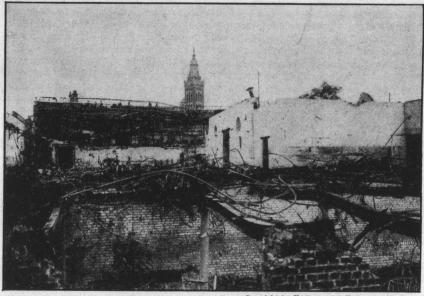
LITERATURE POETRY HISTORY and INFORMATION



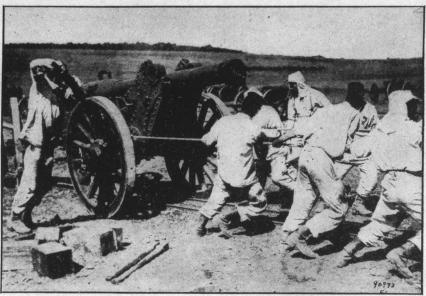
The FARM BOY
and GIRL
SCIENTIFIC and
MECHANICAL

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

WORLD EVENTS IN PICTURES.



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French and Belgian Convoy at Furnes, on Way to Front.



German Engineers Clearing Railway Tunnel Blown up by Belgians.



are you crying?

was snowy white about him. In fact, room. it looked like he was inside of a great fact, he was rather warm.

He looked for the fairy whom he "They are taking the food to the the roots grow." knew must have called to him, but he germ of life, Jimmy Jingle," explainsaw no one in sight. He couldn't look ed the fairy guide, "and we must go Let's hurry, Good Fairy." very far for the white stuff, whatever now and see this germ life, for before it was, walled him in on all sides. long there will be so many fairies the great heaving body of germ life food materials. Very soon, he saw the white material working in this room that we will and they stopped at the opening bulging out in front of him. There hardly have a space in which to stand, which had been made in the roof, saw that every now and then some of seemed to be something within that The fairies you see working now are There they saw three tiny rootlets the material would turn off into the

forced up by a mole as it made its is not the busy season. burrow just beneath the surface.

and soon he saw a tiny head appear. won't really begin to grow until a lit-It was the head of the fairy who had tle later. Then it will tax the efforts where inside of the germ life and wrapped themselves about particles of

He gazed at the fairy for a long time begins to grow." for something about the fairy's apjust like this one.

horns were not hard like the horns of ried along by some force which he rection. a cow, but they were soft and were could not understand. constantly in motion. Although there were a great many of them, and they move along?" he asked. were close together, they did not ined Jimmy Jingle.

how the wheat grows?"

gle eagerly. "I have always wished can stand. that I could make a visit into the all this, Good Fairy. But when may kets."

ies are working and we will remain the germ life. every process of growth."

The fairy led the way through a should wait there a long time. burrow he had made in the food and Very soon Jimmy Jingle heard a

food extending to the roof on all sides about it. except one. There Jimmy Jingle saw Then the fairy workmen began to drawing upon the roots now for part an opening through which a fairy oc- travel faster, and there were more of of his food. After a while he will get Good Fairy?" casionally passed with a load of food. them, each with his tiny basket well all of his food through the roots, and

IMMY JINGLE, Jimmy Jingle, why ket against the pile with one knee, and scoop the food in with both Jimmy Jingle look his hands hands. When the basket was filled, its coating. It has swelled so much fairy light to appear so that you can from his eyes and looked about. He the fairies disappeared through the and the coat has been softened by the see everything about the growth of was in a strange place. Everything opening at the farther side of the moisture without and within and now a kernel of wheat.

"Where are the fairy workmen go-Fairy?" inquired Jimmy Jingle.

Jimmy Jingle watched with interest food to keep the germ life living. He a few days before.

that the fairies were moving along within. The fairy's head was very thin but without moving their tiny legs. When

"We are on the life railway, Jimmy noticed that the fairies move rapidly, ing back to germ life. It, however, is food and were carried rapidly back-Finally the fairy spoke. "Jimmy but do not use their legs. It is this Jingle, Jimmy Jingle, would you know moving sidewalk that they are standing upon. In the rush season, this "Oh, may I really know how the travels much faster, and it is loaded wheat grows?" questioned Jimmy Jin- with fairies just as thickly as they

"You will see just beside it that wheat plant and see just how the there is another which is moving in wheat from which the flour is made the opposite direction. That carries the is produced. I would just love to see fairies back with their empty bas-

Soon they found themselves in a "You are already in a kernel of glittering chamber which received its wheat, Jimmy Jingle. This is the im- light through thick amber windows in mense storehouse where all of the top. Jimmy Jingle saw a large food is kept. If you will come with slowly moving mass at one side and me, I will take you to where the fair- the fairy guide explained that it was

in this kernel of wheat until it has Jimmy Jingle was pulled aside into grown into a plant, and you shall see a crevice, and the fairy guide told him to make himself comfortable for they

Jimmy Jingle, crawling on his hands rushing sound, and he saw a great made of materials taken up from the toward the germ life. Jimmy Jingle and knees soon came into a larger stream of water at the opposite side soil by these new rootlets. of the chamber. It appeared to be

These fairies had the most curious filled with the snowy white food.

little baskets which they carried on The chamber seemed to be growing then have done its duty.

and growing, and Jimmy Jingle real- how growth is accomplished there?" ized that growth had really begun.

to the folds of the germ life which any opening. were ever opening and closing and endirection of the crevice where he sat. roots."

Finally, however, just as the germ of them brought baskets, and the side- roots from all sides. walk on which the rode moved

with inquiring eyes and the fairy are far under the ground, aren't we?" guide explained.

the germ life has broken through. It to the front of this chamber and see there."

only a very small part of those em- just beginning to assume a form, tiniest of openings. Other portions It reminded him of the dirt being ployed in the wheat kernel, and this Their building resembled very much would lodge in spaces in the walls of the building of a concrete building the canal. "These fairies carry only enough which Jimmy Jingle had watched only

of every fairy who can get into this emptied a continuous stream of mate- earth and absorbed the food within By this time, Jimmy Jingle had for- room to keep him supplied with food. rials into the rootlets. The covering these to supply the growing parts of gotten all about crying because of the The germ life is the most greedy crea- of these root tubes seemed to grow or the grain of wheat. strangeness of his new surroundings, ture you can imagine when he really expand as the amount of the materials increased, and as Jimmy Jingle watch- canal. They stepped over to where the ed, the rootlets grew to be quite a pearance seemed to attract him. He fairies were going out through the length. The skin was transparent so guard chamber," explained the guide. had seen fairies before, but never one entrance and Jimmy Jingle then saw that he could see the flowing stream

beautiful, and the top of it was cov- he stepped into the path used by the a stream within the transparent tubes in contact with a lump of earth this ered with long graceful horns. The workmen he felt himself being car- that was traveling in the opposite di- guard chamber breaks a way through

> "Good fairy, what is making us part of the materials is flowing back root finally works its way around the into the germ life."

"No, Jimmy Jingle, you are mistakterfere with each other in their mo- Jingle. This is what carries the work- en. All of the food which comes into turning stream and see where that is tions. It was the constant and grace- men fairies to the place where the the rootlets from germ life stays there going." ful motion of these horns that attract- germ life receives the food. You have but the stream you see is really flow-

"Oh, yes, Good Fairy. I would like

As the fairy workmen brought their very much to go into the roots, but baskets of food, they emptied them in- how can we get inside, I don't see

"There is no opening, Jimmy Jingle, folding the food with an endless appe- and if we cut an opening, the food tite. At first it seemed like the germ would all run out and the root would life would get so full that it could not die. So we must use a fairy means to hold more food, and Jimmy Jingle be- get within. Just close your eyes and came frightened as he saw the great hold my hand and-now open your writhing body working its way in the eyes. You see, we are inside of the

"Oh, how wonderful," exclaimed life seemed to have reached the limit Jimmy Jingle, as he gazed about him. of its expansion, Jimmy Jingle heard The walls were of the purest crystal a loud, long ripping noise. The germ and everything within was sparkling. life moved away from the crevice. The There was a restful, subdued light workmen redoubled their efforts. More that came through the walls of the

This light rather puzzled Jimmy Jingle and he asked, "Where does all Jinmmy Jingle turned to the fairy this light come from, Good Fairy? We

"Yes, we are far under the ground, "The germ life has broken through Jimmy Jingle, but I have caused this

"We will now step aboard this is now beginning to send out roots stream of food and go to the end of snow drift, but he wasn't cold. In ing with those baskets of food, Good and a shoot. If you like, we will go the root to see what we can find

They stepped off from the little "Oh, my, yes, I want to see that. platform on which they had been standing and were borne quickly The fairy guide led the way around along on the top of the column of

As they proceeded, Jimmy Jingle

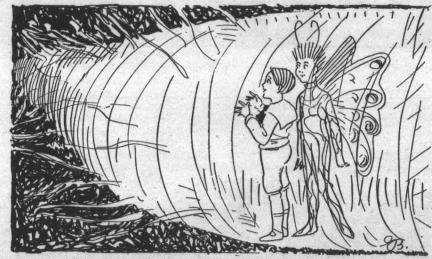
When he inquired about the little openings, the Fairy guide explained Long tubes extended from some that these were the root hairs that

Finally they came to the end of the

"In front of us you will see the "It is made of very strong material and as the root grows this guard Suddenly, he noticed that there was chamber protects it. If the root comes it. If it comes in contact with a rock, "Oh, Good Fairy," he cried, "See, it prevents injury to the root. The rock.

"Now we shall go back with the re-

So they mounted a small particle of



"You see," said the Fairy, "We are now inside of the roots."

coming exhausted, and germ life is of it.

their heads. When they came to the larger, the walls were certainly bulg- "But come, wouldn't you like to and is distributed all through the liv-

was astonished when they reached "The supply of germ food in the big the place where the germ life had There were immense piles of white flowing into the germ life and around storerooms where we started is be- been, to find that there was no tract

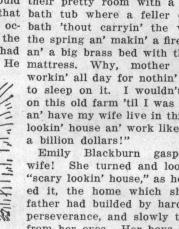
"What has become of germ life.

"As you will see, Jimmy Jingle, the storeroom will rot away for it will germ life is no longer here. He has divided himself into a million parts piles of food, they would hold the bas- ing out. The germ life was swelling make a trip into the roots and see ing tissues of the roots and stem. In he divides himself and sends a part of ears would burst with the noise. the life into every place where life is Finally he realized that he could place where Bruce an' Rufe live an' needed in the new plant.

been happening above ground."

in one small particle, but as he grows everywhere at once. He thought his near knows what he wants to do. If

not see. Was he blind? He could their pretty room with a nice white "Now let us go and see what has move about and feel the things that bath tub where a feller can take a he had seen near him before this oc- bath 'thout carryin' the water from They continued their journey on the curred. Then he realized that the the spring an' makin' a fire to heat it, upward moving stream, and soon noise had stopped. Or else he had an' a big brass bed with the dandiest



wife! She turned and looked at the

She went slowly up the path to the front steps. She had never noticed ey, and they had bought Rufus a watch instead. She paused with her the late September sun, and the wealth of purple jasmine that had reached the upper rail of the sagging porch after years of patient climbing; this old scary looking house that Ted's wife should never live in. And she knew every nail, every board and every plank that had gone into its buildsome living part of the days of her

She went slowly about the simple preparations for supper, silently laying her plans for the future for, to "Tell Bruce if he can get me a job Emily Blackburn, to think was to act. night, the father stooped and getting The figure down the road waved it's gray, the boy whistling as he put up the bars and raced his dog up the The mother turned back with a lane. As far as the eye could see,

"Put down your paper a minute, and laid her glasses on the table.

The old man smiled in a cheery way

mouth ever since Rufe left this after-

He smiled encouragingly at his wife



The Fairy Workmen Carried Food to the Germ Life.

It was roofed with emeralds, and the shouted at the top of his voice but he restful green color was very pleasing could not even hear himself.

and now you see it has reached the the beginning. sunlight. This is where all of the food that the roots take up from the are you crying?" can be used by the plant. This is the go to his grandfather's. leaf and it corresponds to your stom- He wiped the tears from his eyes ach. Food is digested here."

Jingle, this shoot was growing rapidly heard that soft voice he had heard in whose alluring bait was a white bath

"Jimmy Jingle, Jimmy Jingle, why soil must come to be prepared for the Now he could hear. He looked up before how narrow and cramped that

use of the plant. None of it can be and saw through his tears that he was little porch was and how black and used as food until it has gone through again a big boy and was sitting in the dismal the walls looked. Dan had this room. Here the hot sun's rays wheat field where he had gone to cry wanted to paint the house last year change the food particles so that they because his mother would not let him but she had hated to waste the mon-

and ran home as fast as he could to foot on the step and looked upstairs Suddenly Jimmy Jingle heard a tell his mother of the wonderful ad- at the little windows, blazing with the mighty roar that seemed to fill every venture he had and what he learned reflection of the last slanting rays of crevice. He couldn't tell where it came about how the wheat grows.

Emily Blackburn's Thanksgiving. By LUCILE HOWELL.

WISH you'd let us take you to the surroundings of his boyhood. This you to set off a foot."

Rufus Blackburn set down his grip outside the gate and pushed his hat called. back on his head.

"It's just a mile, Mother o' mine and turned back. and I need the walk," he laughed, as ed hastily at his watch, "that train's it'll pay my board." about due right now and it was only reported ten minutes late."

A boy of about sixteen was swing-

again," and he was gone.

shoulders of the retreating figure with board. burning eyes. What a change there was in Rufe! This was her boy, this work? Don't you have all you want over the top of his paper. tall, broad, clean specimen of man-here at home?" She put her arm hood, yet as he swung along so easily around his shoulder and drew him to old woman? I'm glad to have you down the dusty road there was the him. "Mother'd hate it awfully bad to talk. You've been so down in the elasticity of youth in his step, and lose her baby, too." that subtle something in the poise of The boy pulled away from her and noon that I've almost wished that the the head, the dark, close-fitting suit, wriggled his toes down into the grass. boy hadn't a come home." his white, well manicured hands and "In the first place, I ain't no baby," the neat black grip which he carried, he staunchly asserted without raising but she continued to slowly wind the that proclaimed him an alien to the his eyes. "I'm sixteen, and by the

station, Rufe. It looks too bad for was her boy, true enough; but how ing, knew them and loved them like much longer could she claim him.

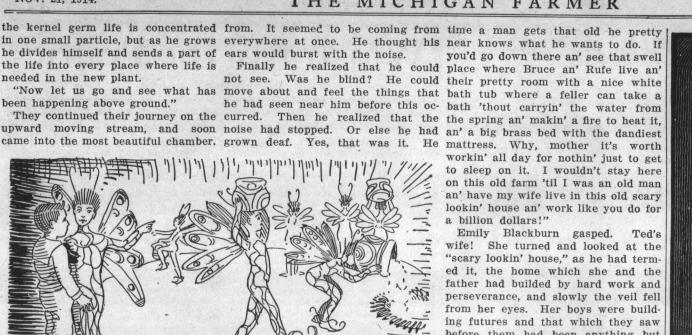
"Oh, Rufe," the boy at the fence youth. The figure down the road paused

he kissed her. "I tell you that's not I'll come down just as soon as the She stood in the back doorway and as far as I hike it every morning for corn's put away. Tell him any old watched them let the cows in the pasmy breakfast. Hello, there," he glanc- thing that I can do'll suit me just so ture and finish their work for the

approval and went on.

ing leisurely on the gate, snapping a heavy heart. She had given up the their broad fields stretched to the switch at the dog that slept at his rest, and now her youngest and the right and left. Well she knew the last was tugging restlessly at the re- sacrifices and labor that expanse of "Yod'd better hump yourself then," straining hands which held him back. land represented and with what he advised his older brother, "You'll First it had been Bruce, her oldest greedy enthusiasm they had added have to catch her on the run for she the one in whom her highest hopes each acre so that they would be just barely hesitates down there. were centered, that had broken the plenty for Bruce and Rufus and Ted, Nothin' with any life about it stops home circle and struck out for him- for the boys must have a better start here any longer than it takes to get self. He had fought his way through than they did. And now as they grew from the bottom until now the world older the land would be all that was Rufus smiled knowingly. "You're called him a successful man, but still left and the boys would be gone in not getting infected with the 'Wander- he was gone. And the next year it search of more cheerful looking lust too, are you, Ted. Forget it, old was laughing, care-free Rufus who homes. kiddo, there's no place like home. had felt the lure of the asphalt and he Looks mighty good to me every time had left her. And now that awful oc- away and she had narrowed off the I get a day off, I tell you. Well, good- topus, The City, was reaching out toe of a stocking before she finally bye, mother. So-long, Dad," he waved with its thousands of alluring arms, made up her mind as to her course of to the old man on the porch. Take slowly, insiduously, but surely twining action. care of yourselves till I see you themselves around the last she had to offer. And he was willing and anx- Dan, I want to talk to you," she be-Emily Blackburn watched the broad ious to go for enough to pay his gan, as she slowly wound up her yarn

"Ted, why do you want to go off to



"scary lookin' house," as he had termed it, the home which she and the father had builded by hard work and perseverance, and slowly the veil fell from her eyes. Her boys were building futures and that which they saw before them had been anything but tempting. She and the father had started with nothing, but with health, happiness and ambition, they had builded their home and reared their children, and now their craving desire was to save everything for the boys. And while they were doing this they had neglected to make the home more Jimmy Jingle was very much fright- attractive and an unseen foe was en-"While we were in the roots, Jimmy ened and began to cry. Then he ticing her boys from her, an enemy tub and a fluffy mattress.

The supper dishes had been cleared

"Why, what's struck you all to once,

(Continued on page 458).



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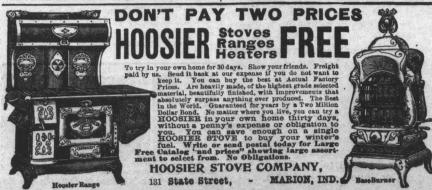
The McLain Orthopedic Sanitarium 907-B Aubert Avenue. St. Louis, Mc

This Girl Could Not Walk or Stand

-at the age of four

Pink Vosburg, daughter of Mrs. Sula Vosburg, Bedford, Ia. Mrs. Vosburg brought her daughter to this Sanitarium January, 1911, for treatment of Infantile Paralysis. The child could neither walk nor stand alone, but could only crawl on her hands and knees. She was here eight months; now walks, goes to school and gets about splendidly. Mrs. Vosburg will affirm the above. This is not a selected case, nor are the results unusual.

The L. C. McLain Orthopedic **Sanitarium**



Vinston of the Prairie

BY HAROLD BINDLOSS.

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Synopsis of Previous Chapters.

Farmer Winston, a bankrupt homesteader, accepts a proposal to simulate Lance Courthorne, an adventurer. Courthorne and his pals struggle with the police, kill Trooper Shannon, who leaves evidence pointing to Winston as the murderer, and smuggle through some illegal distillery products. To Silverdale, a settlement founded by Colonel Barrington, Maud Barrington, his niece and ward, has just returned from Montreal. The Colonel is worried over a fall in wheat prices, and also over the coming of Lance Courthorne, Miss Barrington's cousin, to Silverdale to claim a share of his father's estate. Maud Barrington learns more of her cousin's unsavory past. Winston, in the meantime, pushes on to Montana, is held for Courthorne by an officer, who discloses to him the belief that Winston is the murderer of Shannon. Mail for Courthorne is opened by Winston. Complying with instructions in the letter, he meets and confers with a lawyer respecting Courthorne's inheritance at Silverdale, visits the colony. Some of his actions fail to tally with Courthorne's reputation. He wins the good will of Dane, the Colonel's adviser. The real Courthorne, supposed to have been drowned during the smuggling, now reappears in Montana, meets Ailly Blake, whose life he had blighted and who is now engaged to one Potter, rancher. Winston, returning from Winnipeg, finds Miss Barrington at one MacDonald's, and in an attempt to reach Silverdale are caught in a blizzard.

CHAPTER X .- (Concluded).

poured a little of the spirit into a morrow, but in the meanwhile I would rusty can, and the girl, who under- like to know why you are so hard upstood why he did so, felt that it cov- on me, Miss Barrington, because I ered several of his offenses. "Now," really have not done much harm to she said graciously, "you may smoke anyone at Silverdale. Your aunt,"if you wish to."

I must get more wood."

The roar of wind almost drowned his voice, and the birch logs seemed your own doing," said Maud Barringto tremble under the impact of the ton. "At the beginning you prejudiced blast, while Maud Barrington shivered us when you told us you could only as she asked, "Is it safe?"

with the little laugh she had already about you!" found reassuring.

had left their homesteads during a lars at cards in my life." blizzard to see to the safety of the rington was not unduly timorous, but willing to take it," she said. the roar of that awful-icy gale would you can understand—"
have stricken dismay into the hearts "Yes," said Winston. "It puts a a diminutive gold watch and wonder- that puzzles you quite clear." ing whether the cold had retarded its her that there was at least something cigar." she could do, and scraping up a little ed for the man's footsteps eagerly:

forty degrees below.

turned to the man.

sit there, and drink it."

for the can, but the girl swept it off her cold tinted cheek, and the patrithe stove. "Oh, I know the silver was cian serenity of her face was even for me," she said. "Still, is this a more marked in her sleep. Then he time for such trifles as that?"

in her cheeks the girl sat down close taken his word, for it was borne in to him and drew part of the fur robe upon him that a time would come about him.

pleased to see me come back just ed up and down the room. now," he said.

Maud Barrington. "Still, I was."

gesture. "Of course," he said. "Now, Winston said nothing, but by and by we can resume our former footing toand he made a little respectful incli-Winston pointed to the few billets nation of his head which pleased the left and shook his head. "I'm afraid girl-"is at least giving me a fair trial."

"It is difficult to tell you—but it was play cards indifferently. It was so un-"It is necessary," said Winston, necessary, and we knew a great deal

"Well," said Winston quietly, "I He had gone out in another minute, have only my word to offer, and I and the girl felt curiously lonely as wonder if you will believe me now, she remembered stories of men who but I don't think I ever won five dol-

Maud Barrington watched horses in a neighboring stable, and closely, but his tone carried convicwere found afterwards as still as the tion, and again she was glad that he snow that covered them. Maud Bar- attempted no explanation. "I am quite

of most men, and she found herself strain upon your faith, but some day glancing with feverish impatience at I may be able to make a good deal

Maud Barrington glanced at the progress. Ten minutes passed very flask. "I wonder if that is connected slowly, lengthened to twenty more with the explanation, but I will wait. slowly still, and then it flashed upon Now, you have not lighted your

Winston understood that the topic of the snow that sifted in, she melted was dismissed, and sat thoughtfully it in the can. Then she set the flask still while the girl nestled against the upon the stove, and once more listen- birch logs close beside him under the same furs, for the wind went through She did not hear them, but at last the building and the cold was unbearthe door swung open, and carrying a able a few feet from the stove. The load of birch branches Winston stag- birch rafters shook above their heads, gered in. He dropped them, strove to and every now and then it seemed close the door and failed, then leaned that a roaring gust would lift the roof against it, gasping, with a livid face, from them. Still the stove glowed for there are few men who can with- and snapped, and close in about it stand the cold of a snow-laden gale at there was a drowsy heat, while presently the girl's eyes grew heavy. Fin-How Maud Barrington closed the ally, for there are few who can resist door she did not know, but it was the desire for sleep in the cold of the with a little imperious gesture she Northwest, her head sank back, and Winston, rising very slowly, held his "Shake those furs at once," she breath as he piled the furs about her. said, and drawing him towards the That done, he stooped and looked stove held up the steaming cup. "Now down upon her while the blood crept to his face. Maud Barrington lay very Winston stooped and reached out still, the long dark lashes resting on turned away, feeling like one who Worn out by a very grim struggle, had committed a desecration, knowing Winston did as he was bidden, and that he had looked too long already looked up with a twinkle in his eyes, upon the sleeping girl who believed when with the faintest trace of color he had been an outcast and yet had when he would try her faith even "I really believe you were a little more severely. Moving softly, he pac-

Winston afterwards wondered how "Was that quite necessary?" asked many miles he had walked that night, for though the loghouse was not long-Winston made a little deprecatory or than thirty feet, the cold bit deep;

glanced towards the stove, and imme- would have been perilous?" he said. diately swung round again. When he next turned, Miss Barrington stood stood still, shivering in spite of his distinctly regrettable!" efforts and blue with cold. The wind side the stove.

"You had only your deerskin jacket the Grange alive." -and you let me sleep under all the furs," she said.

sition they had occupied themselves. now."

"I only fancied you were a trifle my way to the Grange."

"But the snow will be ever so deep, sion that I will presume upon it!" and I could not come," said Maud Barrington.

hours at latest."

not find the trail," she said. "The ra- niece would have frozen." vine would lead you to Graham's homestead."

going to the Grange."

Then Maud Barrington remembered, man." and glanced aside from him. It was Winston, who thrust more billets into er, and need rest and sleep." the stove, turned to her with a little

I think we need remember nothing and deep." when we meet again, beyond the fact exist."

the furs he had left behind him.

CHAPTER XI. Maud Barrington's Promise.

ed out a glass of wine.

look half-dead," he said.

you had better hear me first."

him. "I could make nothing of what ly be urged to continue the struggle. you told me while you speak like that. Drink it, and then sit still until you a lonely mound of whiteness, out of ture."

tingled horribly as the blood once companion wondered at the tirelessmore crept into the surface tissues. ness of the man, as floundering on Then he fixed his eyes upon his host foot beside them he urged the team as he told his story. Barrington stood through the powdery drifts beneath very straight watching his visitor, but the big birch bluff. Winston did not his face was drawn, for the resolu-tion which supported him through the house, and when, five minutes later, day was less noticeable in the early Maud Barrington came out, she saw morning, and it was evident now at him leaning with a drawn face, very least, that he was an old man carry- wearily against the sleigh. He straighting a heavy load of anxiety. Still, as ened himself suddenly at the sight of the story proceeded, a little blood her, but she had seen sufficient, and crept into his cheeks, while Winston her heart softened towards him. Whatguessed that he found it difficult to ever the man's history had been, he retain his grim immobility.

"I am to understand that an attempt

but at last he heard a sigh as he to reach the Grange through the snow

"Yes," said Winston quietly. The older man stood very still reupright, a little flushed in the face but garding him intently, until he said: otherwise very calm, and the man "I don't mind admitting that it was

Winston stopped him with a geshad fallen, but the sting of the frost ture. "It was at least unavoidable, that followed it made itself felt be- sir. The team would not face the snow, and no one could have reached

"No doubt you did your best-and, as a connection of the family, I am Winston shook his head, and hoped glad it was you. Still-and there are he did not look as guilty as he felt, cases in which it is desirable to speak when he remembered that it must plainly—the affair, which you will, of have been evident to his companion course, dismiss from your recollecthat the furs did not get into the po- tion, is to be considered as closed

Winston smiled, and a trace of drowsy and not inclined to talk," he irony he could not quite repress was said, with an absence of concern, for just discernible in his voice. "I scarcewhich Miss Barrington, who did not ly think that was necessary, sir. It is, believe him, felt grateful. "You see," of course, sufficient for me to have -and the inspiration was a trifle too rendered a small service to the disevident-"I was too sleepy to notice tinguished family which has given me anything myself. Still, I am glad you an opportunity of proving my right to are awake now, because I must make recognition, and neither you, nor Miss . Barrington, need have any apprehen-

Barrington wheeled round. "You have the Courthorne temper, at least, Winston shook his head. "I'm afraid and perhaps I deserved this display of you must stay here, but I will be back it. You acted with commendable diswith Colonel Barrington in a few cretion in coming straight to me-and the astonishment I got drove the oth-The girl deemed it advisable to hide er aspect of the question out of my her consternation. "But you might head. If it hadn't been for you, my

"I'm afraid I spoke unguardedly, sir, but I am very tired. Still, if you "Still," said Winston slowly, "I'm will wait a few minutes, I will get the horses out without troubling the hired

Barrington made a little gesture of evident this man thought of every-comprehension, and then shook his thing, and she made no answer when head. "You are fit for nothing furth-

> "You will want somebody, sir," said Winston. "The snow is very loose

He went out, and Barrington, who that you will give me a chance of looked after him with a curious exshowing that the Lance Courthorne pression in his face, nodded twice as whose fame you know has ceased to if in approval. Twenty minutes later, he took his place in the sleigh that Then he went out, and the girl stood slid away from the Grange, which lay with flushed cheeks looking down at a league behind it when the sunrise flamed across the prairie. The wind had gone, and there was only a pitiless brightness and a devastating cold, while the snow lay blown in wisps, AYLIGHT had not yet broken dried and dusty and fine as flour by across the prairie when, floun- the frost. It had no cohesion, the rundering through a foot of dusty ners sank in it, and Winston was alsnow, Winston reached the Grange. most waist-deep when he dragged the He was aching from fatigue and cold, floundering team through the drifts. and the deerskin jacket stood out A day had passed since he had eaten from his numbed body stiff with frost, anything worth mentioning, but he when, leaning heavily on a table, he held on with an endurance which his awaited Colonel Barrington. The lat- companion, who was incapable of renter, on entering, stared at him, and dering him assistance, wondered at. then flung open a cupboard and pour- There were belts of deep snow the almost-buried sleigh must be dragged "Drink that before you talk. You through, and tracts from which the wind had swept the dusty covering, Winston shook his head. "Perhaps leaving bare the grasses the runners would not slide over, where the team Barrington thrust the glass upon came to a standstill, and could scarce-

At last, however, the loghouse rose, get used to the different tempera- the prairie, and Winston drew in a deep breath of contentment when a Winston drained his glass, and sank dusky figure appeared for a moment limply into a chair. As yet his face in the doorway. His weariness seemwas colorless, though his chilled flesh ed to fall from him, and once more his had borne a good deal for her.

(Continued next week).



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EMILY BLACKBURN'S THANKS-GIVING.

(Continued from page 455). She hardly knew where to bevarn. gin. Dan would be willing for anything that she wanted but it would be so hard to make him understand where they had erred.

dinner this year and have all my children come home." she finally an nounced.

ingly. He hardly knew what he was expected to say.

"that is, if you can git 'em all here. I 'spect Bruce'll be likely to eat his

shanty for Thanksgivin. ..., seems seems crazy. You ought to see the place ily." "Any her when I was down there this summer. Talk about your palaces. Why, this old place would simply fade away hintin' at?" at the sight of it."

His mother knit on with provoking serenity.

"I'm not worrying about that," she assured him. "Several things can happen in two months and I don't believe you will be ashamed of the old place. Bruce says she lives in the country."

ke and white.

In the street car in h.

It they've got a great big a you could lose this house windmill that pumps water the house an' a telephone and ys don't have to churn either, a man lives on the place that io nothin but take care of the s and milk the cows an' his wife s down in a little dairy house hey don't bother about it until want the butter to eat. Why, about 's soon as the queen to mad aday at the poor house as to ect Neil Hill to come out here for anksgivin'. He was very much interested now in a little dairy house in a day at the poor house as to ect Neil Hill to come out here for anksgivin'. Then you don't think she'd come "The was to be spared to make this even accepted nothing on the farm was to be spared to make this even accepted nothing on the farm was to be spared to make this even accepted nothing on the farm was to be spared to make this even accepted nothing on the farm was to be spared to make this even accepted nothing on the farm was to be spared to make this even accepted nothing on the farm was to be spared to make this even accepted nothing on the farm was to be spared to make this even accepted nothing on the farm was to be spared to make this even accepted nothing on the farm was to be spared to make this even accepted nothing on the farm was to be spared to make this even was to ever refused me anything never refused me anything a sea around "The week" he had accomplished with the weather. She had accomplished himself. The dold me all about how any of the weather. She had accomplished himself. The dold me all about how have to thank Him for to day. The dold was the weather are the weather are the main any of the weather. She had accomplished himself. The dold me all about how have to thank Him for to day. The dold me all about how what me to thank Him for to day. The dold me all about how was to thank Him for to day. The dold me all about how have to thank Him for to day. The dold me all about how was done to thank Him for to day. The dold me all about how have to thank Him for "Country, yes, but as different from Thanksgivin'."

if I asked her?"

"She might come—once."

"Now listen to me." Mrs. Blackburn laid down her work. "I know, Dan, that you've never refused me anything that you thought would do me or the rest of the family any good. I've made up my mind that its the best thing for us to make some changes around here and I want you both to promise me to help. First, you must understand that it's going to cost some money—" she paused and looked from one to the other of her listeners.

There was a merry twinkle in Mr. Blackburn's eyes. "About how much do you think you'll need," he bargained. "Would a couple o' dollars or so fix you out?"

She picked up her work again to

think you'll need," he bargain to did "Would a couple o' dollars or so so fax you out?"

She picked up her work again to hide her confusion.

"I'll take nearer a thousand," she confessed, "but, oh, Dan, you don't understand what it means to the boys and us," she hurried on. "I'll be the best investment you ever made.

The old man rubbed his spectacles on the edge of the table cover.

"Well, mother, you've never told us what you wanted done. A thousand dollars'll buy a heap o' things."

"I can tell you some of them right now, I want some new rooms built on upstairs and a great wide porch down here across the front and down the sides; one that you could lose the Hill house in," she smiled at Ted, and how, mother, if we've seen it all wat the whole house painted. Then we'll have an engine down at the spring that'll pump our water, and a bath tub put in some where. There must be a bath tub, Dan, a white one, and new brass beds with fluffy materesses, and Ted, we'll not have a woman bothering around with our ment things. We'll just send our milk to the creamery and let them make the butter. Now, Dan, that's some of the things."

"She picked up her work again to hide its initial appearance in the lad allenbed this same pain that monor.

"This ain't nothin'," he promised them mysteriously. "Wait' til you get hem them mysteriously. "Wait' til you get hem them mysteriously. "Wait' til you get hem them mysteriously. "Wait' til you get hem to fone, and the proudes mysteriously. "Wait' til you get hem team in the toon. Hill's house of the new surrel o

spendin' the money. What's changed your mind all at once?"

"I've found out I was wrong," she acknowledged. "I've been savin' our money and losing' our boys. I knew there was something wrong that the boys didn't want to stay with us, and this afternoon it come to me that we weren't making their home as attractive.

this afternoon it come to me that we weren't making their home as attractive as them places in the city. I know it looks like a pile of money to lay out all at once, but think what it means if we can just keep one of them with us."

"I'm going to have a Thanksgiving inner this year and have all my chiliner come home." she finally an ounced.

The old man looked at her searchigly. He hardly knew what he was expected to say.

"That's the thing to do," he agreed, that is, if you can git 'em all here. I say sell the whole bloomin' farm."

Mrs. Blackburn hesitated to answer. The west forty; that was to have

I 'spect Bruce'll be likely to eat his turkey with that Hill gall. You know Rufe says they'll be married in the spring."

Mrs. Blackburn picked up her glasses and started another round on the stocking.

"I'm going to ask her, too."

Ted looked up from his book. "Nell Hill!" he snorted in disgust. "Do you think she'd come out here to this old shanty for Thanksgivin'. Well, you're crazy. You ought to see the place in the whole bloomin faill.

Mrs. Blackburn hesitated to answer. The west forty; that was to have been Bruce's. There was a pretty shady knoll down there where they had planned since he was a child that some day he might build his house. The years ago, with the help of the boys, she had set out a row of maples there. But Bruce was gone now, and the rest were going.

"I'll tell you, Dan," she compromised, "let John Taylor have that patch of timber land he's been after so of timber land he's been fruce's. There was a pretty shady knoll down there where they had planned since he was a child that some day he might build his house. The years ago, with the help of the boys, she had set out a row of maples there. But Bruce was gone now, and the rest were going.

"I'll tell you, Dan," she compromised, "let John Taylor have that patch of timber land he's been after so of timber

"Any way you say," he agreed.
"An', if I understand you right, this is that for you, Bruce," the old man venall supposed to be done before tured.

Thanksgivin'. Was that what you was hintin' at?"

Ted was quick to grasp his mother's suggestions. He closed his book and bounced out of his chair.

"Oh, mother," he cried, "we'll have a house just like Nell Hill's. An' I'll have one of those rooms upstairs for my very own, an' oh, can't I have the bicycle? I've wanted one for the longest time."

It was finally agreed that the timber.

An' I'll

An' I'll

An' I'll

An' I'll

An' I'll

I've wanted one for the land should be sold and the proceeds used toward repairing the house and adding such improvements as they should decide up. The days which followed were busy ones. First came the carpenters and the old house, which had slept undisturbed for twenty years, echoed with the sound of the hammer. Each new improvement even installed and a teleral was finally and the proceeds was finally and the proceeds and the proceeds and the proceeds and the proceeds as they should decide up. The days which followed were busy ones. First came the carpenters and the old house, which had slept undisturbed for twenty years, echoed with the sound of the hammer. Each new improvement even installed and a teleral was finally and the proceeds and the proceeds and the trimber of being shut up in an office. Dad. I wonder what mother would say to my building a house down there for Nell and me next spring."

"Say, boy!" The old man dropped his brush and grabbed his hand "She'd say to start haulin' ber tomorrow. That's brush and grabbed and a teleral was finally and the proceeds and the proceeds to being shut up in an office. Dad. I wonder what mother would say to my building a house down there for Nell and me next spring."

"Say, boy!" The old man dropped his brush and grabbed his hand "She'd say to start haulin' ber tomorrow. That's brush and grabbed his hand "Wall's brush and grabbed h adding such improvements as they should decide up. The days which followed were busy ones. First came the carpenters and the old house, which had slept undisturbed for twenty years, echoed with the sound of the hammer. Each new improvement suggested something else. A furnace was installed and a telephone, and when it was finally completed and all the new furniture in place Ted pronounced it perfect.

"It beats the Hill's place a thousand days in the week," he assured everybody. "It's got 'em all skinned a mile."

He was very much interested now in the preparations for the Thanksgiving dinner. As all the invitations had been accepted nothing on the farm was to be accepted n

think it'll all be over when the sun goes down."

"You mustn't feel that way, Emily," he chided her as he started for the barn. "We've got one of 'em left yet an' maybe we'll keep him."

The boys had finished the work for the night but the old farmer still tarried behind.

"It'll be mighty hard to see 'em all start back tomorrow," he confided to the old white mare as he carefully rubbed her legs. "It wouldn't do, though, to let Emily know that I felt it too." Through the back barn door he could see Bruce and the girl coming up the lane and when they reached the barn Miss Hill went on to the house but Bruce came in.

"Chores all done, father?" he asked. "Just a finishin' up, son. How do you things look?"

"I would never have believed the old place could show off so well, father. What are you going to do with that piece down there on the west."

that piece down there on the west end. You know where mother and we kids set out those trees years ago. That's an awfully pretty place for a house."

The old man's heart was beating fast and he knelt under the horse to hide his excitement.

hide his excitement.

"Your mother has the bossin' of that piece. I wanted to sell it this fall but she wouldn't hear of it."

The boy made no reply but stood tossing grains of corn to a grateful her

The boy continued to feed the hen.

"We would've built down there ourselves if we'd a owned that piece when we put up the house. Your mother was always mightly taken with that location," he continued.

"I know mother used to say that was mine when I was not and and Mall's

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The Domestic Crucible-2.

Wherein Grace Experiences Changed Vision. By DEBORAH.

TOLD mother we'd drive around ance. Something was wrong-it must there for dinner after church," They got too many calories. shed where he was briskly polishing put him out of business," he added. low's remark,

Grace, warned by a sinister odor, that she had held the curling iron to John, I hope Grace will feed you her hair a moment too long, darted well." from the door where she stood watching John, back to the bedroom mirror flushing. "There's such a thing as to examine the maimed locks.

"Your hair is crinkly enough for the her into the room. "Your elbows are thing but onions, he won't eat them." too stiff and you leave out all the brush, she added, "Must we go to your know a thing about food values, or mother's today? I thought we'd have anything scientific. She just dumped our first Sunday dinner alone."

gaily striped socks which adorned his right, but Grace overlooked that. man-sized feet. "Thought you'd be day, and mother was so anxious."

Oh, it's all right, your mother was a dear to ask us," said Grace. "Only," she added under her breath, "we could go there any time, and there'll never be but one first Sunday.'

Grace had known comfortable Mrs. Ludlow all her life, and had always of a daughter-in-law.

scolded John for tossing his hat on sugar. the sitting-room table, just as he had couple of weeks before.

now a married man and company.

dinner

ran through the farm, so it seemed lutely imperative. there were proteids enough to bal- The proteids are hardest of all to of water, one tablespoon of vinegar,

John Ludlow called in from the be there was too much of everything.

Father Ludlow interrupted her dehis "Sunday" shoes, after the manner ductions at this point by putting the of the bootblack he had patronized in entire breast of a chicken on her the city on his wedding trip. "I'll soon plate and flanking it with two heaping get onto the upper-cut that Greek spoonfuls of mashed potatoes. She gave my shoes, and then I'll go in and just caught the last of Mother Lud-

"You never went hungry at home,

"He'll get enough," Grace replied, eating too much."

"Not for John," Mother Ludlow said job, but you haven't got the right placidly. "Boy and man, I never saw swing yet," she said, as John followed anyone who could beat him. Every-

"Well, he has eaten them this dabs he put in for artistic effect." week," said Grace, icily. The idea of Then as John described a series of that woman telling her how to feed curves in the air with an imaginary her own husband! Why, she didn't in eggs, cream, butter, sugar, flour, "I'm sorry I promised, then," said everything without measuring and John, diving into a chiffonier drawer stirred things up regardless. The tafor the especial tie he wore with the ble showed that everything came out

"I'll give him onions every day," she glad not to have to cook dinner to- vowed grimly to herself. "They'll be newborn infants, that is, infants 24 splendid for his nerves."

MICHIGAN'S HAPPY BABIES. No. 2.

N preparing cow's milk for the infant, the mother must bear in mind enjoyed visits to the old brown farm- sugars, proteids, salts and water in house at the end of the locust lane. certain proportions. The amount of gesting its food properly by his con-But it was with an unexpected and fat in both human and cow's milk is odd little sensation that she held up practically the same, but human milk less, colicky, or gassy, and if his bowher face for the accustomed kiss that contains seven per cent sugar as els are normal, the food is agreeing day. This was no longer Mrs. Ludlow, against four and one-half per cent with him. If he cries, but the other one of the neighbors, but Mother Lud- sugar in cow's milk. As the quality conditions are right, he is hungry and low, a quite new being. The older of the sugar is practically the same, you may increase the strength of his woman had been changed suddenly this modification is the easiest one food, into a different entity to Grace, and made. You have only to add sugar to even her well-known features seemed the milk in sufficient quantities to ter, one tablespoonful; milk sugar, strange, viewed from the standpoint bring the percentage up to the re- one tablespoonful, or granulated sug-Mother Ludlow, apparently, saw no sugar is best, but if you can not get 16 tablespoonfuls. change. She kissed Grace just as she this, granulated sugar will do, but you had every week or so for 20 years, must use only half as much as of milk 24 hours old should be one tablespoon-

done for 20 years, and bustled the quality of the fat in cow's milk differs spoonfuls at night. These measurewhole family out to dinner as uncon- from that in human milk, and is, con- ments are based on two tablespooncernedly as if the whole world had sequently harder to digest. The fat fuls to the ounce. It is safer to buy not been made over by a marriage a is added in the form of cream, and it a tiny medicine glass with the measis for this reason that the mother ures marked on the side and use this In fact, no one seemed to see that must work with separated or skim- always in preparing the infant's food. everything was different except Grace. milk, adding to the skim-milk, which In this way only can you be sure the Even John took his mother's scolding represents the proteids, certain measurements are the same each day. as good-naturedly as if he weren't amounts of cream to give the right These can be bought for ten cents. ptroportion of fat. To many mothers For the first week the sugar may this first and Grace had eaten many a one and then adding it again seems absurd. the food being made in the form of called it good. But today she uncon- She argues that the cream is already cream, which may be added to daily sciously criticized. A six-weeks course in the milk and it is a great deal eas- a teaspoonful at a time, providing alin domestic science had filled her ier to feed the child whole milk to be- ways, the infant can digest the addihead with a jumble of proteids, calor- gin with than to fuss with skimming tions. Cream is a laxative, and if the ies, carbohydrates, or hydro-carbates, off the cream and then pouring it bowels become too loose stop further she wasn't sure which. Her own meals back in again. The proportion of fat additions, and if necessary omit the she planned to have properly balanced in milk varies so greatly, however, last one. and she decided that Mother Ludlow that there is no way to tell how much ran too heavy to sugar. Why have the child is getting unless you start the second week. apple pie, fruit cake, fried cakes, ice with milk from which the fat has cream and fruit jelly all at one meal? been removed and add the fat as di-But another survey of the table rected. With delicate infants, or those showed her fried chicken, a roast of who have already been damaged by lamb and a fish from the brook which wrong feeding, this method is abso-

modify so that the child can digest them properly. The total proteids in human milk is but one and one-half per cent, while in cow's milk it is three and one-half per cent. The composition, too, is different and therefore more difficult of digestion by a young infant. There are many ways of altering the proteids, but the most common way, and the one that works out in most cases except in especially delicate infants, is to dilute the skimmilk with boiled water, reducing the amount of water and adding skim-milk as rapidly as you see the child can take more milk.

All of these additions must be made in tiny quantities, an ounce a day, or perhaps only a tablespoonful, a teaspoonful or a half teaspoonful at a time. The busy mother finds the work exacting, and sometimes it seems foolish to her to make such tiny changes. She must remember that the baby's stomach is only a tiny affair and a half teaspoonful sometimes means as much to its feeble digestive organs as a cupful would to her. In healthy infants who come straight along from birth changes may be made more rapidly and the increases made larger. But with delicate infants, or those who have been already damaged by wrong feeding, nothing but the most exact measurements and the strictest attention to detail will do.

The formula given below is one that has been most successfully used for taken cow's milk, or who are already suffering from malnutrition. The quantities seem absurdly small, but the only wise way is to begin with a very weak food and bring it up by the addition of the different elements as that human milk consists of fats, rapidly as the child can take them. You can tell whether the child is didition. If he sleeps well, is not rest-

Cream, one tablespoonful; lime waquired amount. For this purpose milk ar, half tablespoonful; boiled water,

The size of the feed for the infant ful, or one and one-half tablespoon-Fat is a little harder to add, as the fuls during the day, and two table-

removing the cream and remain the same, the only addition to

Skim-milk need not be started until DEBORAH.

CONTRIBUTED RECIPES.

Pulled Molasses Candy.

One cup of granulated sugar, onequarter cup of molasses, one-half cup



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CHESEBROUGH MF'G. CO. 33 STATE STREET, NEW YORK



butter size of a walnut. When it nice to serve as sweet tea biscuits, or other readers, and would like to ask a pulled white.

Cream Taffy.

egg. Boil until it forms a crisp ball in a quick oven and serve hot. in cold water, then pour on a buttered tin, flavor with vanilla if desired.

Peanut Brittle.

Coacoanut Dainties.

and when dissolved add the gelatine der to give a sugary crust. and boil for 20 minutes. Then remove from the stove. Let stand ten Pour on buttered tin, mark in squares and roll in white sugar.

Pulled White Candy.

half cup of cold water. When it comof cream of tartar. When it hardens and snaps in cold water, pour on but- ful of sugar, and sufficient sweet milk will never dry streaked .- L. M. L. tered tins and pull when cool enough, to make the batter the right consistthen flavor with any flavoring. It can ency for baking in custard form with- cold, when taken soon enough, is a be colored also. If you don't have out a top crust. When the custard half teaspoonful of bicarbonate of arocream of tartar, add two tablespoons of vinegar and butter size of an egg.

Butter Taffy. One cup of granulated sugar, butter

then pour on a buttered tin and mark in squares before cold.

TOES .- FROM TESTED RECIPES.

BY MRS. JEFF. DAVIS.

vegetable is appreciated in every part of eggs, reserving whites. of the country. Housewives who make a specialty of appetizing forms of ways acceptable served with a roast and pour the whole over the potatoes especially with elderly people.—E. B. of any kind, and largely takes the in a buttered baking dish. While bakplace of bread.

is more delicious than rich, sweet po- tard. Lemon juice is an addition for probably responsible. tato bread. Take about three large flavoring. roasted yams, the dry, close-grained potatoes are boiled, or a sufficient ed corn meal. After mixing this thor- When the potatoes have finished bak- Keep your silver knives and forks mixture with a teaspoonful of salt coating and there is a rich, sweet two-quart fruit jar with the cov and just enough sweet milk to make sauce in the bottom of the pan to tight and they will always be bright a stiff dough. Form into small pones, serve with them. and place in a hot, greased pan, allowing room for slight swelling during the baking. Place immediately in a very hot oven. When crust is a rich brown it is taken out and served at once.

Crackling Potato Bread.

bread than the former.

Potato Biscuit.

Potato biscuit is another delicious a great help to me. way of cooking potatoes. These are I enjoy very much the letters from ours.

hardens forming a crisp in cold wa- unsweetened, to accompany the meat favor, which I shall return in any way ter, flavor and add one teaspoon of course. To one pint of mashed pota- I can. Will you please reprint the soda, then pour on buttered tins and toes added three eggs, one-half tea- recipes for tomato relish and the one pull when cold enough. Vanilla or cupful of lard or butter, one-half tea- for beet salad? The relish is made lemon go well with this, and it can be cupful of sugar if desired sweet, a uncooked, and the salad is made with One cup of granulated sugar, one- der. Beat in lard, or butter, while years ago this fall but my paper got half cup each of glucose and sweet potatoes are still hot. Add sweet milk lost. cream. If you do not have cream use if needed to make the dough right for

Sweet Potato Ginger Bread.

The potatoes are prepared as for send them in.-Mrs. F. H. biscuits, with the same preparation of One cup of granulated sugar melted flour, shortening and baking-powder. peared in last week's issue. and stirred constantly in a clean fry- Then two well-beaten eggs and a cuping pan. When it is a brown color, ful of brown sugar is added to each stir in a cup of broken peanuts and quart of dough, and ginger and cinnaturn out on a buttered tin, marking off mon to taste. The stiff dough is thinin sticks, as it hardens very quickly. ned with cane syrup until it can be kneaded and rolled to layer half an One-half package of acidulated gel- inch thick. The cakes are cut in any on the market for cleaning hats, atine moistened in cold water for five shape desired, placed close in a greas- gloves, etc. But unless a woman is minutes, using half a cup of water. ed pan and baked in a hot oven. When very skilful in work of this sort it is Put a cup of granulated sugar and half done brush with syrup and water much more satisfactory to send the one-half cup of hot water on the stove, and sprinkle over a little sugar in or- article to a cleaning establishment.

Potato Custard Pie.

Bake or boil potatoes until very tengenerous tablespoonful of butter, the home. grated rind and juice of one lemon, half a teaspoonful of salt, a table- SHORT CUTS TO HOUSEKEEPING. One cup of granulated sugar, one- spoonful each of ground ginger, cinnamon and flour. Then beat in the has stiffened in the oven and the un- matic spirits of ammonia and a half der crust is brown, the meringue, cupful of boiling water. Take this made of the stiffly beaten whites of when the first creepy sensations are the eggs and powdered sugar, is felt, if possible just before going to the size of an egg, two tablespoons of quickly spread over the custard and bed, and by the next morning the cold hot water. Boil till it spins a thread, it is returned to the oven to brown will have disappeared.-Mrs. J. C. T. forming a crisp ball in cold water, slightly on top.

Custard Cups.

MANY WAYS WITH SWEET POTA- than for pies. Half a teacupful of but- weight, such as is used in dressmak-While southern housekeepers are juice of two lemons, and a teaspoonful of lace, cover the lead weight with a generally looked upon as experts in of ground ginger or cinnamon is ad- bit of muslin before tacking it to the the preparation of a variety of tempt- ded. Thin with sweet milk. When hem.-M. S. ing dishes from sweet potatoes, this meringue is desired use twice amount

Potato Pudding.

Candied Potatoes.

THE LETTER BOX.

A Note of Appreciation.

pinch of salt, one pint of sifted flour, cooked beets, raw cabbage and horseand two teaspoonfuls of baking pow- radish. They were in the paper two

I have a good recipe for green tomasweet milk, and butter the size of an rolling out, and cut into shape. Bake to mince meat and one for red catsup, like what you buy, if any of the readers would like them I will gladly

The tomato recipe requested ap-

HOME QUERIES.

Household Editor:—Will someone please give me directions for cleaning a white velvet hat?—M. P.

There are many patented cleaners

Household Editor:-Will someone please tell me how to color a soft felt hat?—Reader.

Has any reader a good rule? It has minutes, pour in two-thirds of a cup der, peel and mash while hot. To been the editor's experience that such of cocoanut, and flavor with vanilla. each quart of mashed potatoes add a work is rarely successfully done at

Put a handful of common salt in the mences to boil add one-half teaspoon yolks of two eggs, the whites being rinse water for men's shirts and overreserved for the meringue, a half cup- alls, or any colored clothes, and they

An almost infallible remedy for a

Thin drapery curtains have been the cause of innumerable broken For baking in custard cups the po- vases and lamp-shades, as well as of tato custard is made somewhat richer less frequent but serious fires. A lead ter is mashed through each quart of ing, slipped into one end of the hem, hot potato with two cups of sugar and will serve to keep the curtain in place two eggs. With these have been while still allowing it to sway pleasbeaten smooth the grated peel and antly in the breeze. If the curtain is

Relief from cold feet at night may often be secured by simply putting an extra blanket doubled over the lower Pare, and slice raw potatoes. Cream part of the bed. A feather pillow answeet potato breads, and desserts of two cupfuls of sugar, half a cupful of swers the same purpose. It is not many kinds, find a delightful way of butter, add two cupfuls of milk for heavy, yet induces additional warmth varying the menu of any meal. The each pint and half of sliced potatoes, to the lower extremities, where the plain baked, or roasted potato is al- Beat two eggs and stir into mixture, circulation is not always of the best,

When there is difficulty about whiping stir occasionally to keep the po- ping sweet cream so as to have it For breakfast, or luncheon, nothing tato slices well mixed with the cus- stand up stiffly, one of two reasons is Either the cream is too thin or it is too warm. Nine times out of ten it will be be-This is a splendid relish to accom- cause it is too thin. The top part of amount to make three cups of mash- pany a roast. Cut partly baked pota- cream that has stood for 24 hours ed potato. Remove skins, and while toes into quarters, and place in a bak- ought to whip readily if at all cold. It still steaming place in a bowl, and ing pan with a pinch of salt. Coat is useless to waste time on thin mash very fine. Add, while still hot, generously with butter, and cover the cream. By evaporation the surface half a cup of shortening half lard and whole with a heavy sprinkling of su- portion becomes thicker and this is half butter, and two cups of fine sift- gar. A very little hot water is added. the part to select for whipping.—E. R.

oughly, add two eggs, beating into ing soft they are covered with a sugar that are not in every day use, in a and ready for use.—L. M. L.

Some people cannot sleep at night because of next day's tasks and duties, or pleasures, and so lie with Dear Deborah:-I have been a sil- tense muscles and nerves and think ent and interested reader of the Mich- and worry. How much better it would igan Farmer for ten years, and do so be to let alone the things of tomorrow This is prepared the same as above, enjoy your articles for, like Mrs. F. L. till the day comes, and go about them except instead of shortening, a cupful S. and others, they "hit the spot" ev- refreshed and strengthened for useof dry cracklings, chopped fine, is ad- ery time. I am the mother of four fulness and enjoyment. Life would This makes a lighter, richer healthy children and anything that mean more, and more be accomplishhelps to take care of their wants, ed. It is folly to be too ambitious which I think sometimes are many, is and sheer waste of vitality to anticipate, live in days that are not yet

Do you know that-

Fresh meats, dusted with Borax, will keep fresh much longer. Rub the Borax in as you would pepper and salt. Wash the meat before cooking.

Borax, added to the water in which your washing is done, saves lots of valuable time. It makes washing a simple and easy undertaking, without any attendant harmful results. Add three heaping tablespoonfuls or more to every tub of water.

Bacon curers use Borax in place of salt for curing.

The hands will be kept soft and white, and free from all chap, redness and roughness if Borax is used in washing them.

If you want your clothes a snow white—not yellow-white, or gray-white, but real white—use Borax in the cleansing water. It will also restore to a snowy white after two or three washings, linens that have acquired an old, yellowish cast through frequent washings with ordinary cleansers.



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The Marvelous Aid to Soap **Purifies and Disinfects**

Used with Soap Wherever Soap is Used For Sale by All Grocers and Druggists

In convenient 10c, 15c and 50c packages. If your retailer does not supply you promptly, your choice of a 10c, 15c or 50c package will be mailed to you by Parcels Post, delivery charges paid, on receipt of the regular retail price. The Pacific Coast Borax Co.
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Just send your name written plainly on a postal card and learn by return mail how to get the best Vacuum Cleaner on the market, without cesting you one cent! We are putting them out for demonstrating purposes. Guaranteed by ears. Re liable, live agents wanted everywhere. Write today



CUSTOM TANNI

wild or domestic anima can make them into Oo furnishing all trimmin BROWN & SEHLER CO., Grand Rapids, Mich

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Farm Commerce.

Michigan Co-operative Organizations are Active.

18,000 barrels of flour.

organized, with the following officers: house cannot stand." President, Chas. Herron, Wilson; vicepresident, W. S. Green, Alpena; secretary, Wm. Kennedy, Bolton; treasurer, Rosene Ellsworth, Hubbard Lake. Crop and Market Notes.

The Grand Rapids Growers' Association, which includes the leading growers of vegetables under glass in and near the city, has re-elected Reed & Cheney as selling agents for 1915. Practically all lettuce, tomatoes and other products grown under glass go

the grape season just closed the Lawton post office in Van Buren county sent out 1,227 baskets of grapes, also many packages of pears, plums, apples, cucumbers and tomatoes, shipments going south to Texas, west to Wyoming (north to North Dakota and east to Vermont. Postmaster Rickey, of Dowagiac, has taken pains to write to manufacturers of parcel post containers for samples, also to farmers who are already extensive users of the new system to aid in an exhibition of methods of packing fruit and produce for shipment. The display will include butter and egg carriers, confided whether the foot and mouth is ease. An average amount of feed in farmers' hands. Potatoes are quoted at 25c; beans \$2; corn 35c per basket. Shiawassee Co., Nov. 10.—Splendid weather for farm work, and lots of fall plowing being done. Potatoes averaging 130 crates per acre, and some fields yielding as high as 208 crates per acre. Beans good quality, yield 10 to 12 bushels per acre. Corn harvest well under way. Meadows in excellent condition. New seeding looking fine. Wheat and rye are excelinclude butter and egg carriers, containers for dressed poultry, fruit, etc.

ainers for dressed poultry, fruit, etc. lent. Chas. F. Openlander, of Clinton feed. county, read a most valuable paper recently at a meeting of the Looking

O-OPERATION is not coming-Glass Valley Farmers' Club on "Coit has arrived. If you must be operation," in which he said in part: shown, go to Litchfield, in Hills- "Do you know that there are over dale county, and watch the workings 2,000 co-operative creameries in sucof the creamery organization and the cessful operation in the United States affiliated shippers' association. Then today? Do you know that there is a go to the nearby town of Camden, co-operative elevator in Iowa that has where the farmers have just organiz- been paying its farmer estockholders ed, with F. W. McFadden as president, good dividends for 25 years? There John Hooligan as treasurer, and O. K. are more than 335 co-operative ele-Coolman, secretary. A trip to Van vators in Iowa, 300 in Minnesota, 250 Buren county will show you the Law- in South Dakota, 200 in North Dakota, rence Co-operative Association, with and over 2,500 in the grain belt doing \$10,000 capital and a membership of business successfully and paying the 60. In Northern Kent county we have middleman's margin, not to the midthe Harvard Farmers' Produce & Sup-dleman, but to the producer, to whom ply Co., which has recently re-elected it belongs. Now what are we going officers, with reports showing a good to do about it? I would suggest, first, financial condition and fine prospects that we educate ourselves on this for the future. At Elmdale in south- question by reading. The farm paeastern Kent we have a co-operative pers are loaded with information on elevator company, and shatements the subject. As soon as we are propshow a monthly business running erly informed of our needs along this about as follows: Fourteen cars ship- line we will have a co-operative soped out, or 14,000 bushels of wheat, ciety here in Watertown. Farmers, 1,500 bushels of oats and a car of bal- co-operation is coming and the sooner to members at retail as follows: Fifty feel when it gets here. The farmer tons of soft coal, 28 tons of hard coal, has been dictated to and ruled over so 150 barrels of cement, 18 tons of lime, long that he takes it as a matter of to the great possibilities of co-opera-Farmers have formed potato grow- tion, because he has been a slave and ers' association at Buckley and Man- a tool so long. The greatest fault with ton, in Wexford county. Emmet coun- us all is that we try to be too indety supervisors voted to establish a pendent. Suppose the labor unions publicity bureau, the object being to did not oblige their members to sign assist in advertising the county's a pledge of loyalty, how could they many advantages for general farming, ever hope to win a point? The farmer stock raising and fruit growing. The must be pledged by written contract Caro Farmers' Co-operative Elevator to stand by his fellow farmer; other-Company started business in Tuscola wise he can never hope for success.' county in September, with \$40,000 cap- Mr. Openlander took for his text the ital and John McAllister as manager. third chapter of Mark, 25th verse: "If Alpena county potato growers have a house be divided against itself, that ALMOND GRIFFEN. Kent Co.

Michigan.

Arenac Co., Nov. 10.—Potatoes are a fair yield. Beans 10 to 12 bushels per acre; corn good; new meadows fair; wheat and rye look fine. The average number of cattle are being wintered, and there is plenty of feed. Farmers are holding their hay. Beans \$2.05; wheat 90c; asts 43c; potatoes

other products grown under glass go out from one central packing and shipping warehouse in a uniform manner, to markets found by the selling agents. The Freeport Farmers' Elevator Company has been formed in Barry county, with \$10,000 capital.

The Michigan State Horticultural Society will hold its annual meeting in Kalamazoo, December 1-3, and cooperation, direct sales and elimination of middlemen will have a leading place on the program.

Uncle Sam is trying to hitch upcloser with the producer and to serve as the agent in getting farm and orchard produce to consumers quickly and cheaply by mail. Use of the parcel post is rapidly increasing. During the grape season just closed the Lawton post office in Van Buren county

tered, and there is plenty of feed. Farmers are holding their hay. Beans \$20.5; wheat 90c; oats 43c; potatoes 30c; hay \$10@12.

Barry Co., Nov. 10.—Farmers have their fall work well along, though some corn yet to husk. Corn is an excellent crop. Buyers are offering 20c for potatoes, and quite a good many are being stored awaiting better prices. This is a good location for fruit, but orchards are badly neglected. Farmers are giving some attention to dairying. A few silos have been put up, and more will go up next year.

Isabella Co., Nov. 10.—Potatoes are offering 22@25c. Beans about a half crop, bringing \$1.95. Meadows, new seeding and wheat are fair. More wheat and rye sown than usual. A few hogs and cattle are being fed for sale. Farmers have a good supply of feed for own use. Surplus wheat and rye mostly sold, and no corn or oats for sale. Farmers are marketing potatoes 30c; hay \$10@12.

Barry Co., Nov. 10.—Farmers have their fall work well along, though their fall work well along, t

ples, cucumbers and tomatoes, ship-tle are being fed. Much anxiety is ments going south to Texas, west to shown over the foot and mouth 'is-

vest well under way. Meadows in excellent condition. New seeding looking fine. Wheat and rye are excellent. A few cars of feeding cattle on feed. Very few lambs fed. Plenty of feed in farmers' hands. Some wheat being held for higher prices. Beans (Continued on page 462).

The Blue Valley Creamery is a PROTECTION to the Cream Producer

You cream-producing Farmers ought to know that the Blue Valley Creamery Company, as a market for your butter-fat, offers you the most absolute protection for full profit, highest price and prompt pay. Such a reliable market as that is a great asset to you and your business because it allows you to sell direct and not through the middleman. It cuts out all the element of uncertainty and does away with the necessity of dividing your receipts with somebody else.

When you figure out what it costs ed hay; eight cars received, with sales you get in line the less foolish you'll you to produce cream, the time and money it costs you to care for your cows, why should you share your profits with anybody? When you add the middleman's charges and 20 tons of bran and middlings and course. He is asleep and benumbed profits to cost of maintenance and production, do you get enough money out of it to pay you for your trouble? That's why we advise you to sell to the Blue Valley Creamery Company and get the maximum price and the maximum profit both of which are as sure as the rising of the sun. Any good business farmer will see the value of these facts at a glance.

> And another thing—some of you farmers who are making butter are operating along the lines of greatest resistance. You can make more money with far less labor if you will sell your cream to us and let us make the butter than to attempt to make it and distribute it yourselves. Distribution costs money and if it isn't well organized, it's a waste and not a profit. Figure both of these points out in dollars and cents-get down to brass tacks—contrast the profits you make now with the profits you can make by dealing with us, and it will require no further argument from us. Facts speak for themselves.

> The Blue Valley Creamery System has a remarkably fine standing throughout America. It makes the best butter and sells to the best trade. It gets the best price for its butter and can afford to pay the best prices for cream. That company, therefore, is your logical market. There isn't any other market that is anywhere near as good. And every can of cream you ship to a Blue Valley Creamery nets you your maximum profit. These statements being facts, what further argument is necessary? Write us today and get the detailed information.

> Better still—ship us a can of your cream today and see how the trial results. You don't stand to lose anything and you will make a discovery that will put money in your pocket, and turn present loss into full profit.

How to Ship Your Cream to a **Blue Valley Creamery** OUR GUARANTEE

You take no risk in shipping your can of cream to a Blue Valley Creamery. You are sure of the money for your cream and our binding guarantee insures the return of your empty can. No farmer has ever failed to get his pay for his can of cream during all the years we have been in business. We are proud, and we think justly so, of this record and it is worth a great deal to the farmer who is looking for a high price cream market and one that is at the same time reliable.

We have thousands of letters on file in our offices from shippers. We'll send you copies on application. Each is a glowing recommendation of the Blue Valley System.

is a glowing recommendation of the Blue Valley System.

Cream is always shipped by baggage or express and low shipping rates have been fixed for 5, 8 and 10 gallon cans. The shipping charge includes the return of your empty can. Ask your local express agent or railroad agent about rates to our nearest creamery. If he can't give you the rates just drop us a postal card and we will see that he is informed. Our wagons meet all trains. Ship on any train that carries express or baggage.

Write for printed shipping tags or use an ordinary shipping tag and address it to the nearest Blue Valley Creamery. Be sure your name and address is on the tag and turn the can over to the transportation company. We will do the rest.

Write today for our handsomely illustrated and interesting short story, entitled, "The Fable of the Cow." It is free for the asking.

Ship a can of cream to us today and try the Blue Valley System. Address our nearest creamery.

Blue Valley creameries are located in wholesale market centers where there are a number of railroads, thus enabling each creamery to get a large volume of cream within a reasonable shipping distance and serve a large number of cream within a reasonable shipping distance and serve a large number of cream procedures. shipping distance and serve a large number of cream producers. Creameries are located at Chicago, Ill., St. Joseph, Mo., Indianapolis, Ind., Sioux City, Ia., Detroit, Mich., Grand Rapids, Mich., Hastings, Neb., Parsons, Kan., Springfield, Ill., Clinton, Ill., Cedar Rapids, Ia. Ours is a business creamery system built up to meet hand separator conditions, thereby paying and separator highest prices for cream. Your's truly.

BLUE VALLEY CREAMERY CO. P. S.-Remember each Blue Valley Creamery always pays the same price to all.

Blue Valley Creamery Company X-14: Gentlemen:—Send me FREE copy of "The Fable of the Cow."
Name
Address
Rural F. D. Route

Markets.

GRAINS AND SEEDS.

Wheat.—Unprecedented conditions prevail in the wheat market. With a new record established in the increase of the visible supply for the country, last week's trading was continued on an almost steady basis. The heavy marketing by farmers increased the stores to 5,535,000 bushels more than was in sight a week earlier, while prices held to within a rather narrow range. The reason for the market continuing so favorable to the farmers is the foreign demand. Europe must have wheat and at the present time November 17, 1914. is the foreign demand. Europe must have wheat and at the present time America has about the only supply sufficient to meet the needs. Last week fully 10,000,000 bushels were shipped and America furnished 9,000,000 of the amount. Dealers do not fear the continued demand for while the crop in Argentine is reported as promising, the grain will not be ready for shipment for six months and this for shipment for six months and this country in the meantime can dispose of her big surplus. Boats to carry the grain to Europe is the greatest hadicap. Any general cessation of deliveries at country elevators, however, would likely cause a sharp upturn in slightly advanced. Fresh stock sells values. One year ago the price for at 29c per dozen; current receipts No. 2 red wheat on the local market was 96½c per bushel. Quotations for the past week are: was 96½c per bushel. Quotations for the past week are: No. 2 No. 1

White. Dec. 1.09½ 1.15 1.10 1.15 1.09 1.14

allowing stocks to accumulate. The feeding situation is being held in abeyance by the restrictions against the movement of stock on account of the presence of foot and mouth disease, which with the comparatively high prices being paid for corn, is stimulating general selling in those sections where the crop is ready to move. The November estimate of the 1914 corn crop by the government was 2,705,692,000 bushels. One year ago the price for No. 3 corn was 76½c per bushel. Quotations are:

	No. 3 Mixed.	No. 3 Yellow
Wednesday	76	78
Thursday	 76	78
Friday	 75	77
Friday	 75	77
Monday	75	77
Tuesday	10	
Tuesuay	 	

	Standard.	White.
Wednesday	50	491/2
Thursday	50	491/2
Friday	50	493/4
Saturday	50	49 1/2
Monday	493/4	491/4
Tuesday		

ton.

Hay.—This trade is quiet and easy at lower prices. Carlots on track at Detroit are: New, No. 1 timothy \$15 @15.50; standard \$14@14.50; No. 2, \$13@13.50; No. 3, \$10@11.

Chicago.—Choice grades are in good demand and firm, while common is steady. Choice timothy \$16.50@17.50; No. 1, \$15@16; No. 2, \$12.50@13.

Straw.—Steady. Rye \$7.50@8; oat straw \$7@7.50; wheat straw \$7@7.50 a ton.

DAIRY AND POULTRY PRODUCTS.

Butter.—Market is steady at last week's prices. Extra creamery 32c; firsts 29c; dairy 21c; packing stock 20c per 1b.

20c per lb.

Chicago.—Market is somewhat easier with prices slightly changed. Holders are inclined to force sales a little more. High prices are curtailing consumption. Extra creamery 32½c; extra firsts 30@31c; firsts 27½@29½c; seconds 24@27c; packing stock 21½

Elgin.—Sold at 32c, which is the

Chicago.—A firm feeling exists at prices slightly advanced over last week. Fresh stock is in demand. Even some eggs passing as firsts are not conducted to the form of the first are not produced to the first are not produced.

FRUITS AND VEGETABLES.

Fruits.—Pears, Keiffers 50@60c; grapes 17@18c for blue, per 8-lb. basket.

grapes 17@18c for blue, per 8-lb. basket.

Chicago.—Pears, Keiffers \$1.75@2.25 per bbl; quinces \$2@3.75 per bbl, \$1@1.40 per bu; black grapes 14@19c per 8-lb. basket.

Vegetables.—Home-grown cabbage, 75c@\$1 per bbl; new beets 50c per bu; onions 80c per 100 lbs. in bulk, 85@90c per 100 lbs. in sacks.

Potatoes.—Carlots 30@35c per bu; in bulk, 35@40c per bushel in sacks; at Chicago Michigan white, bulk, are quoted at 35@45c per bushel; at Greenville, Mich., 30@33c in bulk.

Apples.—Due to liberal supply the market is still easy. Average receipts 50@75c per bu; \$1.50@2.50 per bbl.

Chicago.—Fancy goods are in fair sale and steady. Trade is generally slow on account of the liberal supply. Snows, Wageners, Spies and Greenings are in most demand. Baldwins \$1.75@2.25; Kings \$2.25@2.50; Wageners \$2@2.25; Jonathans \$3.50@4; Greenings \$2.25@2.50; Northern Spy \$2.25@2.50; Snow \$2.25@2.75; bulk apples 50c@\$1 per 100 lbs., according to quality. Western box apples are selling for 80c@\$2.25 per box.

WOOL.

A normal amount of business was done last week and the deals covered a wide range of grades; however, the fleece wools occupied a larger place in the transactions than for some time past. Just why manufacturers are not rectifing anyions about surplies to a Thursday 50 49½ feece wools occupied a targer place in Friday 50 49½ feece wools occupied a targer place in Saturday 50 49½ feece wools occupied a targer place in Saturday 50 49½ feece wools occupied a targer place in Saturday 50 49½ feece wools occupied a targer place in Saturday 50 49½ feece wools occupied a targer place in Saturday 50 49½ feece wools occupied a targer place in Saturday 50 49½ feece wools occupied a targer place in Saturday 50 49½ feece wools occupied a targer place in Saturday 50 49½ feece wools occupied a targer place in Saturday 50 49½ feece wools occupied a targer place in Saturday 50 49½ feece wools occupied a targer place in Saturday 50 49½ feece wools occupied a targer place in Friday 50 feece wools occupied a targer place in Friday 50 feece wools occupied a targer place in Friday 50 feece wools occupied a targer place in Friday 50 feece wools occupied a targer place in Friday 50 feece wools occupied a targer place in Friday 50 feece wools occupied a targer place in Friday 50 feece wools occupied a targer place in Friday 50 feece wools occupied a targer place in Friday 50 feece wools occupied in Friday 50 feece wools alterators 50 feece wools 60 fe

market per 196 lbs., as follows: Best white 99c. Old corn is quoted at 78c; patent \$6.20; second \$5.80; straight oats 48c; rye 90c; buckwheat 80c; \$5.35; spring patent \$6.50; rye flour beans \$1.90. Reports indicate a light \$5.60 per bbl.

Feed.—In 100-lb. sacks, jobbing lots trade and all poultry prices are firm. are: Bran \$24; standard middlings Prices, live weight, at the opening of \$25; fine middlings \$32; coarse corn the week are: Fowls and springs meal \$32; corn and oat chop \$28 per 10½c; turkeys 17c; ducks 11c; geese ton.

Hay.—This trade is quiet and easy tatowing the potato situation, with market at 20@23c at lower prices. Carlots on track at at most stations outside, and 35@40c at most stations outside, and 35@40c here. While some potatoes are moving the bulk of the 1914 crop has been placed in storage.

DETROIT EASTERN MARKET.

The cold weather discouraged the presence of sellers and buyers on the city market Tuesday morning and the volume of business was comparatively small. Prices were firm for most small. Prices were firm for most lines. Potatoes were in much smaller supply and sold around 45c per bu. Apples are still offered freely but the quality is improved; values range from 50c@\$1. Fresh eggs were held at 45c; butter 38c; celery 20@25c per bunch; squash 30@60c per bu; there was no loose hay in sight and the nominal price is \$17@19 per ton for timothy. timothy.

CHICAGO LIVE STOCK MARKETS.

November 16.

November 16.

This is the Monday set for the partial reopening of the stock yards for business, and stock from sections of the country that are not quarantined may be brought in, but no live stock may be shipped from here, and all stock must be slaughtered within 36 hours. The streets, alleys and packing house plants are all sprinkled heavily with lime, and nothing has been left undone to eliminate all danger from further spread of the foot heavily with lime, and nothing has been left undone to eliminate all danger from further spread of the foot and mouth disease. Receipts of everything are on a limited scale, comprising about 7,000 cattle, 18,000 hogs and 22,000 sheep and lambs. Stock arriving is closely watched by the inspectors, and the work of unloading was so slow that business was necessarily delayed. The packers received direct about 7,000 hogs, as well as about 4,500 sheep and lambs, largely old ewes from St. Paul. After trade got well started in cattle the market was fairly active, with irregular prices, and part of the cattle selling 25 cents or more higher. Two carloads of choice yearling steers brought \$10.75, and that was reported as top for the heavier offerings, there being no heavy beeves such as sold before the closing of the stock yards up to \$11. A carload of fancy heifers brought \$9.75. Hogs were approximately 40c or more higher than the last day the yards were open for business, with sales on a basis of \$7.50@ 8.25 for marketable offerings, but the boom was due mainly to early purchases made by speculators. The 8.25 for marketable offerings, but the boom was due mainly to early purchases made by speculators. The packers held back and declined to pay the full advance, and by the noon hour most of the improvement had disappeared, and it began to look like an \$8 top. A firm sheep market was witnessed, with packers buying fat lambs at \$8.50@9. There were reports of a \$9.25 top for lambs, but they could not be verified.

CROP AND MARKET NOTES.

(Continued from page 461).
moving freely. Live stock in a healthy condition. Wheat \$1.05; oats 43c; beans \$2.05; barley \$1.20; potatoes 40c; corn 70c; eggs 24c; butter 28c.

Branch Co., Nov. 7.—Late potatoes are yielding well. Corn about twothirds of an average crop, and some yet to be husked. Rains last month damaged beans, which will not yield as well as expected, averaging only about seven bushels per acre. Meadows, seeding, wheat and rye are looking good owing to the late rains. Some live stock ordered killed in this county. Many farmers have stock all

**St.55@z.60; common at \$2.30@2.45; red kidneys, choice, at \$3.25@3.50.

**Clover Seed.—Demand is good at \$9.20; December \$9.30; March \$9.50; prime alsike sells at \$8.60.

**Toledo.—Prime cash \$9.30; December \$9.32½; March \$9.55; prime alsike \$8.70.

FLOUR AND FEEDS.

Flour.—Jobbing lots in one-eighth paper sacks are selling on the Detroit

**Define kidneys, choice, at \$3.25@3.50.

**Gramford Co., Nov. 10.—Wheat and than would be the case where stocks were laid in. Trading in fleece wools in fine meanimated with delaines changing hands at 24@24½c, and half-bloods at 29c. Territory wools are active at the best prices of the season.

GRAND RAPIDS.

GRAND RAPIDS.

**Wheat is off a cent for Tuesday's farmers have dairy stock and hogs to buying, the mills quoting as follows: feed. Farmers are marketing potatoes at 40c corn 90c; oats 38c.

Perry Co., Nov. 9.—Most wheat and rye was sown about October 25, and makes a poor showing. Young clover is a good stand. Corn is yielding 100 bushels of ears per acre, though some fields are a failure owing to drouth. Some are plowing corn ground for next season. Farmers are marketing some wheat, milk and poultry. Most of the oats and corn will be fed on farms to hogs and horses. Potatoes are being shipped here from New York state, and selling at 75c per bushel. Wheat \$1.02; oats 45c; corn, out of field 65c; eggs 29c; butter 24c; chickens 11c. chickens 11c.

Ashtabula Co., Nov. 9.—The winter grains are looking exceptionally well. New seeding almost a failure. Corn is being husked and the yield is fair. Some are doing fall plowing. Stock is doing well, but not many cattle or hogs for sale. There is plenty of rough feed, but a scarcity of all kinds of grain. Potatoes were a bumper crop and about all dug; they sell at 38c per bushel; milk at creamery is \$1.70; butter 30@36c; eggs 32c; hogs 7@8c alive; veal, dressed 8@10c; chickens 12c.

Columbiana Co., Nov. 9.—Weather

To thickens 12c.

Columbiana Co., Nov. 9.—Weather fine until November 8, when we had several inches of snow. Farmers have their work pretty well done up. Potatoes all dug, and a good yield. Corn is nearly all husked, but not a good crop owing to the dry summer. Meadows are in fair condition; early sown wheat does not look good. A good many cattle are being fed, but there is not much surplus feed. Potatoes are the main crop being marketed, and shippers are paying 40@45c; oats 50c; wheat \$1; old corn 90c; new 60c; butter 30c; eggs 30c.

Madison Co., Nov. 7.—Good progress is being made in harvesting the corn crop, which is an average crop, and bringing 60c per bushel. New seeding of wheat and rye looks excellent, though there is some report of damage by fly owing to late warm fall. Several cars of potatoes and apples are being shipped in as these products were almost a failure in this section.

were almost a failure in this section.

Illinois.

Perry Co., Nov. 4.—Potatoes were the most complete failure for many years, and there will not be enough for home consumption. Northern potatoes are retailing at 80c per bushel. There are no beans, and corn is a very short crop. Meadows and new seeding are fine. Wheat and rye are doing fine. Very little stock being fed, some hogs. Few farmers have any feed to sell and many will have to buy. Wheat sells for \$1, and many farmers are holding the grain for better prices. Hay \$10@16; butter 25c; eggs 30c; hens and geese 13c.

Missouri. Illinois.

eggs 30c; hens and geese 13c.

Missouri.

St. Louis Co., Nov. 9.—Wheat looking fine and more sown than usual. Farmers held off planting on account of the fly. The usual amount of rye sown. Corn averages 25 bushels per acre; potatoes 35 to 40 bushels. There are no beans. Pears plentiful, and apple market unsatisfactory. Eggs 30@35c. The East St. Louis stock yards are closed for the first time in many years.

years.

Vernon Co., Nov. 9.—The weather is unusually fine. Farmers are busy gathering their corn. Corn on bottom lands yielding 40 to 50 bushels, while on the uplands it is not quite as good. Lots of wheat has been sown and is looking fine. There is plenty of hay, fodder, etc., on hand for stock. Some hogs are dying with what is supposed to be cholera. Wheat 90@95c; oats 40c; corn 65c; hogs \$6.75; chickens 10c; eggs 24c; butter 25c.

Kansas.

Trego Co., Nov. 9.—Weather is ideal but very dry; wheat is needing rain badly, and some reported dying for want of moisture. Corn is being husked and yields from 20 to 25 bushels per acre. No corn is being marketed as yet, and only a little over half of this year's wheat crop marketed. Feed of all kinds is plentiful, and quite a number of cattle are being shipped in for feeding. Wheat 94c; corn 60c; potatoes 75c; apples 85c; butter 25c; eggs 20c.

Lincoln Co., Nov. 7.—The wheat

eggs 20c.

Lincoln Co., Nov. 7.—The wheat stand is good, some farmers are turning their cattle on it. Potatoes scarce, some being shipped in and selling at 85c per bushel. Corn is also shipped in and sells at 78c per bushel. There is quite a number of young cattle fed, and there is plenty of rough feed on hand. Hogs are scarce. A lot of wheat is going to market. Oats 48c; alfalfa hay \$11; butter 20c; eggs 20c.

Nebraska.

Scotts Bluff Co., Nov. 6.—Potatoes yielded 100 to 200 bushels per acre. The season is short for corn, only the early varieties being grown. There

The season is short for corn, only the early varieties being grown. There are not as many sheep being fed as usual, and only a few cattle fed. The range stock is doing fine. No grain is shipped out; corn is shipped in. Sugar beets good crop and bring \$5.50 per ton. Alfalfa, the leading crop here, brings \$8 on track. Potatoes \$1 per cwt.

LIVE STOCK NEWS.

Dr. Simon Flexner, the world fa-mous pathologist and bacteriologist, who is the head of the Rockefeller Institute, is going to study the foot and mouth disease, with a view of isolatmouth disease, with a view of isolating the germ and compounding a serum that can be used as an antitoxin. Dr. Flexner has at his command the \$100,000 appropriation recently made by the institute for the study of the live stock diseases. He and other scientists have arrived in Chicago to scientists have arrived in Chicago to pursue researches into the disease that is causing the loss of millions of dollars. Fifty Illinois counties have been under observation for possible traces of the foot and mouth disease, and 15 counties are under quarantine. State and nation have clashed as to the disposition that should be made of the prize dairy cattle sick at the Chicago stock yards, the federal government authorities claiming that they should be killed, while the state of Illinois, represented by Dr. O. E. Dyson, state veterinarian, sees no reason for such drastic action. It is pointed out that the greater part of the 386 head of fancy stock held there are affected with foot and mouth disease, that most of these are recovering, and that to slaughter them means to set back the breeding industry for years.

There was great surprise at the Chicago stock yards the other day when it was discovered that thousands of dollars worth of the serum used for hog cholera, which is manufactured there, had become infected with the germs of the foot and mouth disease. This serum has been sold broadcast, and to prevent widespread injury Dr. S. E. Bennett, representing the United States government, has issued a warning to farmers. A farm to farm canvass among the purchasers of this serum is being made by inspectors acting under orders to examine every cloven hoofed animal on such farms. Everywhere great regret is expressed because it became necessary on a account of the outbreak of foot and mouth disease in the Chicago stock tyards and elsewhere to abandon the great International Live Sstock Exposition this year. Managers of the famous and popular exhibition state that the entries for the show were the largest ever recorded.

Because of the closing of the Chicago stock yards, a few of the markets and quarantined received unusually large supplies of live stock, and the Kansas City stock yards were glutted with cattle, resulting in big slumps in prices, with the smallest decline in prime corn-fed beeves. Grass cattle comprised the greatest part of the offerings and sold off sharply. Aggregate receipts of cattle, swine and sheep at all the western markets were far less than a year ago. All the markets reported the cattle stocker and fededer trade in a demoralized condition. Some thin cattle have been moving westward from Omaha and Kansas City, but in territory east of the Missouri river there is very little call for thin cattle or sheep for feeding purposes. Since the outbreak of foot and mouth disease stocker values have experienced a big break, but the demand has been poor. November shipments of stock cattle and sheep are sure to be scarce and unusually in high. Nebraska's quarantine against lowa has prevented a lot of live stock from going from the Hawkeye state to Omaha.

The local office of the Bureau of Animal Industry has rece

frequently in demand, next to army horses, the latter being salable at \$130 @140 per head for desirable mounts and at \$150@180 for artillery horses. During the preceding week the Chicago receipts in the stock yards were officially reported as 7,031 head, exceeding all records, but they included thousands of army horses bought at various western points and on their way to the Atlantic seaboard.

Eugene H. Grubb, of Colorado, who

way to the Atlantic seaboard.

Eugene H. Grubb, of Colorado, who has been in Europe in the interest of the Panama Exposition, returned recently and predicted that at the close of the war there would be a great scarcity of most of the famous, English, French and Belgian horses, and as a result he said the American studs of the principal breeds of Percherons, Belgians, Shires and Clydesdales will enhance enormously in value.

Veterinary.

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

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

Nasal Catarrh.—Two weeks ago I purchased a calf at public sale; the calf had been clipped and perhaps took cold; since then a mucus discharge has been coming from both nostrils and so far as I can tell, calf is no better. E. D. R., Belleville, Mich.—Give your calf 10 grs. of quinine, a dessertspoonful of fluid extract of gentian and a teaspoonful of Glauber's salt at a dose three times a day. Keep calf stabled during cold, raw, stormy weather and in barn over night.

raw, stormy weather and in barn over night.

Poll-evil.—I have a seven-year-old horse which our local Vet. has been treating for poll-evil, but the horse does not seem to recover. J. K. B., Falmouth, Mich.—Ask your Vet. to give horse serum treatment, also ap, ply iodine preparations to bunch every day or two and if it is necessary to do some surgical work on him, he can do it. can do it.

Sprained Shoulder.—I have a mare with what people tell me is a sprained shoulder, she is very lame and has not done any work for the past two not done any work for the past two months. When on pasture she got in a ditch and it took us five hours to help her out; she was then not able to stand alone and it took some time before she was able to walk. Her arm and shoulder are some swollen and the liniment I have applied has made no impression. When walking she twists her leg and swings it out in a sort of rotary manner. A. E. F., Custer, Mich.—Clip hair off shoulder and apply one part powdered cantharides and five parts fresh lard every week or ten days.

tharides and five parts fresh lard every week or ten days.

Partial Paralysis.—I have two hogs a year old that are dragging their hind parts and have very little use of hind legs. These hogs ran in orchard all summer and were in nice condition up to three months ago, when one began to drop down behind; a month later the others showed the same symptoms. Neither one of them have ever missed a feed. G. S., Bannister, Mich.—You have fed your hogs too much corn and fat-producing food, not enough of muscle-making feed. Disenough of muscle-making feed. Discontinue feeding corn, or if they are fleshy and fit for market, destroy them; or, fatten them at once, as a chronic ailment of this kind is not always curable.

ays curable.
Indigestion.—I have a mare twel-e Indigestion.—I have a mare twel-eyears old that bloats after eating, occasionally coughs, and her breath has a foul odor. J. J. T., Belleville, Mich. Give her a dessertspoonful of hyposulphite of soda and 1 dr. of ground nux vomica at a dose in feed three times a day. She should be fed a good quality of food and exercised daily.



-STATE STATE STATE

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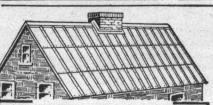
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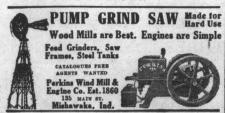
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Practical Science.

TRY TO FOOD AND DIET.

BY FLOYD W. ROBISON. (Continued from last week).

Dietary Considerations of Eggs. ation based upon real relationship be- selves for adult life. tween nutritive values and costs would The Egg Contains the Germ of Life.

Lot.

them.

meat accessory many times when so-called organic matter. meat at all would be impossible.

The Bureau of Chemistry of the United States Department of Agriculture have made some very extensive investigations on the chemical composition of eggs. In general, hens' eggs a strictly nitrogenous diet where aniport consist of about 11 per cent shell, 32 mal products furnish the nitrogen, is per cent of egg yolk and 57 per cent very apt to develop badly flavored white, or regular egg albumin. Eggs are exceedingly highly nitrogenous diets, such as garlic, onions, and the food products. They contain as well, like, exhibit their undesirable inflularge quantities of fat, the yolk of the ences after a time upon the flavor of eggs. A vegetable diet seems to produce eggs of the finest quality. Fowls fed special reference to the economic species of the United States, is a book of the Rural Science series by A. S. Hitchcock, Systematic Agrostologist, U. S. Department of Agriculture, formerly Professor of Botany in the Kansas State Agricultural College. This book is written with a view of giving information on the economic value of grasses native to or which may be grown in different sections of the United States, is a book of the Rural Science series by A. S. Hitchcock, Systematic Agrostologist, U. S. Department of Agricultural College. This book is written with a view of giving information on the economic value of grasses native to or which may be grown in different sections of the United States, is a book of the Rural Science series by A. S. Hitchcock, Systematic Agrostologist, U. S. Department of Agricultural College. This book is written with a view of giving information on the economic value of grasses native to or which may be grown in different sections of the United States, is a book of the Rural Science series by A. S. Hitchcock, Systematic Agrostologist, U. S. Department of Agricultural College. This book is written with a view of giving information on the economic value of grasses native to or which may be grown in different sections of the United States, in a book of the Rural Science of the United States,

ies. Their food value is quite con- reason for this food perfection is ap- yet be said to be scientific. stant and uniform, but market condi- parent. In this respect eggs compare Preservation of Eggs-How to Keep tions fluctuate very materially. Like in a general way with milk. Milk bemeat food products the price at which ing the complete food for the mammal eggs are sold on the market is usually for a certain period of its early life entirely out of relationship to the nu- necessarily must be, and is, a perfect tritive value of the eggs. In fact, food for the individual during that life there is very little relationship in this period. Similarly with eggs. The ercountry between real nutritive value ror in dieting is to assume that either of food products in general, and the milk or eggs are perfect food for an price at which they are retailed. It adult. While they contain the ingrediwould seem, with the increased atten- ents which for a period of time will tion which is being given in our col- sustain life, at the same time these leges and universities to problems of constituents are not so balanced that diet, that after awhile some consider- they constitute an ideal food in them-

evidence themselves in our domestic From a physiological point of view ness of articles of meat and meat ac- It not only contains the proper food quality of food products in general but it contains as well the enzymes

portant reason for the almost univer- matter is stored up. The egg shell that any of these methods have been sal use of eggs is that egg production proper consists in a very large degree very successful. We understand, howis about the only animal production of calcium carbonate, some mag- ever, that a great deal of success which can be conducted on the small nesium carbonate and some calcium has followed the packing of fresh eggs farm or village lot. This possibly ef- phosphate. Over 90 per cent of the in a solution of waterglass. Waterfects very favorably the American weight of the egg shell is calcium car- glass may be obtained at the drug family diet for it provides a fresh bonate and about five per cent of it is store for quite a reasonable price and

How Feed Affects Egg Quality.

There are a very great variety of The feed given to fowls affects very ways in which eggs may be prepared. materially the flavor of the egg. It is In fact, nearly every housekeeper has generally conceded that perfectly some special way of her own in which fresh eggs have by far the most desireggs are prepared for food. It is gen-able flavors although there is really erally considered from a standpoint of little flavor to the absolutely freshnutrition that the boiling of an egg in laid egg. On storage for a considerthe shell is one of the most satisfac-able period of time eggs deteriorate tory ways of preparing it for food. If very materially in flavor, although this an egg is dropped into boiling water, deterioration may not be an evidence that is, water of a temperature of 212 of spoilage. The shell of the egg is degrees, and kept there for two min- very porous and on this account cold utes, the yolk will be warmed through storage men find it necessary to use but not coagulated, and the white, or great care in the storage of eggs. albumin, will be changed to the con- They are in a way almost as susceptisistency of what is known as a very ble to the absorption of disagreeable soft boiled egg. Hard-boiled eggs take flavors as is milk. The bane of the usually upwards of four minutes. cold storage man's business, insofar as Some dietists prefer the prolonged cold storage is concerned, is the decooking of an egg below the boiling velopment of a must in the egg. No temperature. Eggs may be cooked matter how firm an egg may be, if it sections of the country, the cultural for instances for 35 to 45 minutes if becomes musty it is practically worth-

The Bureau of Chemistry of the A vegetable diet seems to produce

acter of the feed has much to do with the color of the contents of the egg, particularly with the color of the yolk. We are not sure that this statement has been fully corroborated by experimental evidence. It seems reasonable to suppose that the claims of these THE CONTRIBUTIONS OF POUL- contain in the edible portion notice- experimenters, that the use of an able quantities of mineral salts. It is abundance of green foods, such as cloapparent therefore, that the edible ver, alfalfa, and the like, will deepen portion of the egg is a quite complete the yellow color of the egg, is well food product and inasmuch as it is de-founded. On the other hand, we think signed to furnish nourishment and that this has not reached such a de-Eggs are probably one of the most sustenance to the young bird during gree of perfection that the control of universally used meat diet accessor. the early stages of its existence the the color of the yolk of the egg can as

them Fresh.

A great deal of attention has been given to methods for the preservation of eggs. Generally speaking, eggs are more subject to seasonable variations in price than is any other animal food product. This seems to be because poultrymen generally have not found a way to make hens productive at those seasons of the year in which eggs now are usually high. The greatest effort has therefore been made to find some way to properly preserve eggs so that in periods of apparent plenty they may be kept until the periods of scarcity arrives. This is accommerce. However, the American the egg is one of the most interesting complished on a large scale in the citpeople place such importance on fresh-life products which we have to study. ies by the cold storage houses, and if eggs are placed in cold storage in percessories, and upon purity and high products for the growth of the young, fectly fresh condition and the commission merchant will be very religthat it is very difficult to establish a and catalytic forces which under propious in his scrutiny of the eggs before diet along economic lines. Therefore er conditions meet the demands of the they go into storage, when they are eggs are used in dietaries in places life processes. Biologists therefore taken out of storage several months where meat products could be more have made a definite study of the egg. later they will be found to be in a economically and just as advantage. Its protein, or albumin, is very com- very satisfactory condition. If this ously used. On the other hand, many plex and the cell nucleus is most mar- were done we apprehend it would not times sirloin and porterhouse steaks velous in its physiological and chemi- be long before much of the prejudice and the like are used to the exclusion cal structure. While great progress against cold storage eggs would disof such excellent foods as eggs when has been made in the chemical study appear. The keeping of eggs in cold it is decidedly uneconomical to use of the egg, little success has attained storage however, is not feasible in the the efforts of the biologists in unravel- smaller towns or in the country homes Eggs Can be Produced on a Village ing through the abundance of chemi- and various other expedients have cal evidence at hand the mystery sur- been at times followed, such as pack-As we mentioned with regard to rounding the life activity manifested. ing the eggs in salt, in bran, in sawpoultry considerations, one very im- In the egg shell most of the mineral dust, or in brine. We have not felt is said to be an excellent preservative medium for eggs. According to the reports of the North Dakota Experiment Station a desirable solution for preserving eggs may be obtained by dissolving one pint of the syrup-like waterglass in ten pints of pure water. The eggs may be put into a crock and the waterglass solution poured over them and must cover them complete-The whole solution should then ly. be kept in a comparatively cool place.

BOOK NOTICES.

"Forage Plants and their Culture," by Charles V. Piper, M. S., Agrostolo-gist in charge of forage crop and investigations bureau of plant industry, U. S. Department of Agriculture, edited by L. H. Bailey, is a book of 618 pages, 5x7½ inches in size. It is a comprehensive treatise on forage crops and their adaptation to different the temperature is not raised near the boiling point and then in this condition will become very easily digested, and, if fresh, with no undesirable flavors, very palatable indeed.

Composition of Eggs.

becomes musty it is practically worthmethods best suited to their growth, their proper place in crop rotations and the agriculture of different sections, the varieties best suited to their growth, their proper place in crop rotations and the agriculture of different sections, the varieties best suited to their growth, their proper place in crop rotations and the agriculture of different sections, the varieties best suited to office their proper place in crop rotations and the agriculture of different sections, the varieties best suited to different sections, the varieties best suited to their growth, their proper place in crop rotations and the agriculture of different sections, the varieties best suited to their growth, their proper place in crop rotations and the agriculture of different sections, the varieties best suited to different sections, an

"The Textbook of Grasses," with

FODDERING THE HENS.

After studying conditions and practices in many places in different parts of the country, I have arrived at the conclusion that but few farmers and farmers' wives fully appreciate and understand all that can be accomplished by systematically foddering the hens in order to secure desirable results in egg production. In fact, very many consider the hens distinctly as grain feeding animals, and do not give the matter of furnishing them a reasonable amount of palatable forage any consideration.

We have found that to confine the hens in a large, roomy park in the summer time during the fore part of the day, and feeding some palatable green feeds, that they pass the hours quietly, eating and attending to laying. There is always a good supply of pure, clean water within easy access. About two hours before night they are let loose to pick grass and gather worms and insects of various

Too Much Exercise Not Good.

We have secured so much better results than when the hens were allowed to roam during the day, we have concluded that too much exercise is a detriment. As too much exercise reduces the producing capabilities of the dairy cow, so too much liberty makes the hens roamers, scratchers and foragers, and at the same time reduces the number of eggs produced during the year.

We have found that when hens are confined in the park, they relish a great variety of green feeds. Garden weeds, like round-top, pigweed, checkweed, summer grass, when it is small, lawn clippings in moderate quantities. when fresh, also make a good feed. Early in the spring we sow Russian sweet turnips, and as soon as the tops have leaves half the width of the palm of the hand, we begin to pull them out to thin the rows and feed them to the chickens. These turnip tops make good feed up to the time the winter approaches and the crop is gathered. Sugar beet tops make excellent summer feed, and the beets themselves can be utilized as feed in winter. Cabbages, sown early, make excellent summer feed, and the large leaves and soft heads can be stored for winter feed.

Some Green Feeds that Are Good.

In the winter time hens take hold of green feed very freely and are benefited by them. Some early cut June clover leaves will be relished and will benefit the flock very much. If the alfalfa hay can not be had, a little alfalfa meal mixed in the warm mash in the morning will help much.

A cabbage, gathered leaves, head and all, hung up where the hens can reach it, will furnish green feed, and the hens will exercise while picking at it. A sweet beet hung up to pick on in moderate weather furnishes feed, a comfortable place to roost, without much air space above them, ventilation without draught, a variety of grain feeds, well balanced, in moderate quantities, what forage feeds they will consume readily, plenty of fresh water and gravel or ground dyster shells, and their healthfulness will be insured. When the hens are healthy they can do good service; if unhealthy they are sure to bring disappointment and loss. To talk of foddering the hens may sound strangely, but if practiced in accordance with good common sense and judgment, it will prove to be an economical manner of feeding, and much better results will follow than when only grain feeds are used. N. A. CLAPP.

A scrub thoroughbred is no better than a scrub mongrel.



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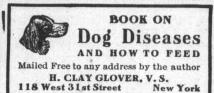
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MAMMOTH ROUEN DUCKS—Old and young, single birds. All fine, large birds at reasonable prices D. G. FISHER, R. No, 3, Box 98, Birmingham, Mich

Pekin and White Indian Runner Ducks —Stock and please you. H. V. Hostetler, Route 1, St. Johns, Mich

BRO. FARMERS. We have just what you want in Barred and White P. Rock ckrls. From extra laying strain, large handsome fellows. Farm raised. For prices write. RIVERVIEW POULTRY FARM, Box 798 Union City, Michigan.

Barred Rocks All prize winners and breeding stock w. C. COFFMAN, R. No. 6, Benton Harbor, Mich.

SILVER and GOLDEN WYANDOTTES At half price for one month, F. E. COWDREY, R. No. 8, Ithaca, Michigan.

SILVER LACED GOLDEN and WHITE WYANDOTTES—A fine lot of White cockerels weighing 6 to 8 lbs. at \$2 and \$3 each. Browning's Wyandotte Farm. Portland, Michigan, PINE CREST WHITE ORPINGTONS—The great winter State Fair, pullets, cockerels, hens, also colle pupples, Mrs. Willis Hough, Pine Crest Farm, Royal Oak, Mich.

PLYMOUTH Rock cockerels 5 to 11 lbs., according to age, hens 5 to 8 lbs., 15 eggs \$1: Mammoth Bronze Tom Turkeys 8 to 35 lbs. according to age. Price \$8 to \$25. 10 eggs \$3. A. E. ORAMTON, Vassar, Mich,

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FOX, COON AND RABBIT HOUNDS Broke to gun and field, Prices right. Fox an Coon hound pups \$5 each. Stamp for reply. H. C. LYTLE, Fredericksburg, Ohio,

Trained Running Fox Hounds -30 Fox and Coon hound Send stamp. W. E. LECKY, Holmesville, Ohio.

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Sibley, Jackson County, 2000 Ferrets for sale. Write for price list It's free, Guarantee safe delivery. DeKleine Bros., Box 41, Jamestown, Mich,

When writing to advertisers please mention The Michigan Farmer.

Grange.

GALA WEEK AT ADRIAN.

Adrian did itself proud, with its three days of celebration and festivities on October 7-8-9. It was a success of the value of co-operation for it was business men of Adrian and the farmers of the community. The Commercial Club of Adrian, represented the business men and the several live Granges about Adrian represented the farmers. The town was in its holiday attire, and everybody helped to make this the most successful carnival held in Michigan, excepting those held in Wayne and Kent counties. Among the features of the arrangements was the interest the bank took in the affair. It gave up its building for the headquarters of the Grange, and also had and stopped at the judge's stand, shown in a separate room, with coma fair and gave prizes for exhibits of grains, fruits and vegetables.

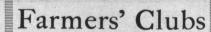
The big day of the celebration was Friday, on which day a monster pared into two large sections and occumated that fully 25,000 people wit- ed very much like an overgrown ceived would prove strong incentives nessed it. The number of floats in the parade was beyond the expectation of everybody, there being about 250. All of the business concerns had floats advertising their wares, and there were fully 100 floats of Lenawee county farmers' displays. The schools which constituted one section of the parade had over 30 floats in their section. Among the features of the parade were the company of boys and the boys' band in white uniforms, which led the parade, the well-drilled Clirton Tipton band of 30, and the beautiful first prize float of Madison Grange. The latter consisted of a float 30 feet long, representing a complete wheat field with harvesters in farm costumes carrying on the operations of harvesting. To even hint at the beauty of other floats in the parade would require more than the limited space we have. The Fairfield Grange quartet played a prominent part among the several comic features of the parade. This quartet, which baby. Wandering about the streets to both individual and Club workers. fully doing his duty in the tugs.

noon celebration was a meeting at the pavement of Broad street. Opera House, at which Charles N. and fraternal insurance amendments. undertaking.

Mr. Gardner as usual delighted his hearers by bringing out important truths in a pleasing manner. He brought out the fact that fundamental prosperity began with the farmer, and that Wall street speculations were based on the condition of the farmer's crops. He even spoke of the three great epochs of rural and agriculture. history; the first, when the farm boy did not know the city and was conbeyond the expectations of those who tent to follow his fathers occupation; arranged it and was another example the second, when he knew the city and was attracted by it; and the third the result of the united efforts of the when he knew both city and country and preferred to stay on the farm.

Thursday night was fireworks night, and about 15,000 people witnessed a A WORD FROM THE ASSOCIATIONpretentious display of pyrotechnics. Fully 500 automobiles were parked in the pleasure zone, and all available side streets were also occupied by 1-2, offers unusually strong attractions autos.

participated. Those in masks parad- ing. ed through the main streets of Adrian mask was one dressed as a bum. One efforts in this department. ade was held. This parade was divid-



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

Associational Motto:

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

Associational Sentiment:

"The Farmer: He garners from the soil the primal wealth of nations."

AL SECRETARY.

The 1914 annual meeting, December and we strongly urge each local Club The gala week ended with a mask- to send delegates, as none can afford ed carnival, in which 1,500 maskers to miss the inspiration of such a meet-

The boys' and girls' exhibits will be where the prizes were awarded. The petent judges in charge, and we hope first best mask was a man dressed as for a large display as this year's re-Uncle Sam, and the most comical sponse will largely determine future

tertainment was a fellow about six contestants, if possible, as we realize pied the streets for hours. It is esti-

the fancy work shown by the ladies, while the exhibit of farm products though not as large as usual, owing to the rainy day, was of splendid quality. Miss Pauline Raven, of Lansing, gave an address on "Cellege Extension and Home Economics." Her explanation of the work done by the sellers and Home Economics." Her explana-tion of the work done by the college along this line was of much interest, much more so as Miss Raven's former home was in Columbia, and she is favorably known as a member of this Club. Mrs. Davison gave a vocal solo. A recitation was given by Raymond Ladd. Mrs Dunn gave a reading on the "Benefits of Recreation," and the company sang a hymn composed by Dr. E. N. Palmer, "Michigan, My Michigan," An invitation was given to meet with Mrs. Phys. 1110. igan." An invitation was given to meet with Mr. and Mrs. E. A. Halladay, former members of the Club, at their home in Clinton, the invitation being accepted for the November meeting.—Maude Smith, Reporter.

PROGRAM OF TWENTY-SECOND ANNUAL ASSOCIATIONAL MEETING.

Tuesday, December 1, 1914. 10:30 A. M. Payment of dues. Presenting credentials. Appointment of committees. Presentation of resolutions.

1:30 P. M.

1:30 P. M.

Music, School for the Blind.
Invocation, Rev. W. S. Steensma,
East Lansing.
Report of Associational Secretary,
Mrs. C. P. Johnson, Hadley and Elba
Farmers' Club.
Music, School for the Blind.
Reading, Hazel Belle Crosby, Battle
Creek.

Creek.
Farm co-operation, J. C. Ketcham,
Hastings; Grant Slocum, Detroit; J.
N. McBride, Burton.
. Tuesday Evening.
Banquet, First Baptist Church.
President's address.
Round table.

8:00 A. M.
Conference of local Club workers, directed by A. B. Cook, Maple River Farmers' Club. Wednesday, December 2.

10:00 A. M. Report of Committees: Temper-Report of Committees: Temperance, honorary members, Club extension, good of the order, credentials, national affairs, state affairs.

Miscellaneous business.

11:00 A. M.
Election of officers.

1:00 P. M.

Music Furcha Questot Greenbush

Music, Eureka Quartet, Greenbush Farmers' Club.

Farmers' Club.
Invocation.
Report of committee on state affairs.
Music, Eureka Quartet.
Banking for the farmer and farm credits, Prof. W. O. Hedrick.
Music, Eureka Quartet.
Conservation of farm women, Mrs.
T. W. Hart, Marion Farmers' Club.
Reading, Mrs. Roy Latson, Howell Farmers' Club.
Music, Eureka Quartet.
The historical museum, Mrs. M. B.
Ferry, Lansing.
7:00 P. M.
Music, Eureka Quartet.

Music, Eureka Quartet.
Treasurer's report.
Music, Industrial School.
Reading, A. C. Bucknell, Milford
Farmers' Club.
Solo, Prof. Fred Killeen, Lansing.
How the working of the tax commission impresses the farmer, Alfred
Allen, Ingham County Farmers' Club.
Music, Industrial School.
Address, James Schermerhorn, Detroit Times.
Thursday, December 3.

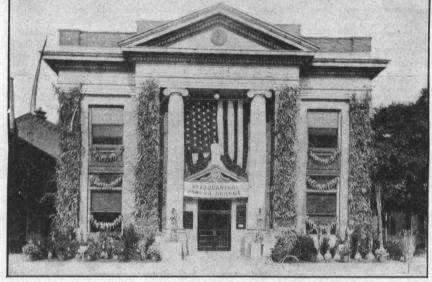
Thursday, December 3.
Visiting day at state institutions.
The ladies of the First Baptist
Church will furnish dinners and sup-

pers at the church.

All exhibits in boys' and girls' contests must be entered Tuesday a. m. if possible.

Resolutions should be written and

delivered to the proper committees. All topics open for discussion.



The Bank was Active in the Affairs of Gala Week.

has established a reputation over the he was crying for his mamma through county appeared in a dilapidated a megaphone. After the premiums all local Club presidents, and profarm wagon, with old Dobbin faith- were awarded, the maskers unmask- grams, credentials and report blanks ed and the band played dance music to all recording secretaries. A feature of the Thursday after- and dancing was done on the asphalt

Gardner, of the National Grange, and success there is no doubt, the crowds sponse that her report may be com-John Ketcham, Master of the State participating in the event being an in- pleted by November 28. Please at-Grange, spoke. Mr. Ketcham brought dication of that fact. If it did noth- tend to it at once. out two points in his speech, which ing more than to display the commuwere peace and war. He asked the nity pride and progressiveness it was Granges to see their candidates for worth the time and effort to get it up. Congress and ask them to match each It was certainly an expression of a dollar spent for army and navy with community spirit which is commendone for agriculture and education. He able and the farmers and business also stated that we should make war men of Lenawee county may well be on such things as the road bonding proud of their accomplishment in this

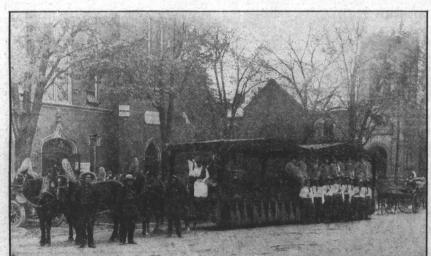
The programs have been mailed to

Delayed correspondence has made them unusually late and the Associa-That this gala week was a decided tional Secretary urges prompt re-

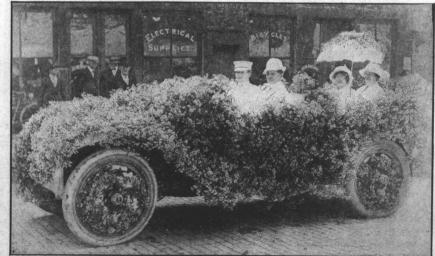
MRS. C. P. JOHNSON, Secretary.

FARMERS' CLUB FAIRS.

Columbia Farmers' Club.
The Annual Fair of the Columbia
Farmers' Club was held October 10 at
Mountain Ash Farm, with Mr. and
Mrs. Henry Peterson. A large attendance, with much interest displayed in



First Prize Madison Grange Float.



One of the Attractive Floats Decorated with Purple Asters.

BREEDERS' DIRECTORY.

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ABERDEEN ANGUS

Bull calves and yearlings ready for service. Sired by Louis of Viswpont II. Closely related to five Grand Champions—Brother. Sister, Sire, Sire's Brother and Grandsire. (International Grand Champion for three years in succession. Prices-375 up. Will meet prospective purchasers either at Bomerset, Addison Jonation.
You are bound to get good calves from these bulls even with strongly dairy type grade cows.

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ABERDEEN-ANGUS

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Strains represented consist of Trojan Ericas, Blackbirds and Prides, only. Black Quality Ito, a bull of rare individuality and merit, heads the herd.
WOODCOTE STOCK FARM. Ionia, Mich.

AYRSHIRES—One of the foremost dairy breeds The for sale. White Leghorn cockerels: Durco Jerses swine. Michigan School for the Deaf, Flint, Michigan.

BEACH FARM

At Three-Fourths to One-Half Price

Owing to the quarantine stopping the moving of cattle, we will contract our young, pure bred bulls at the above discount. to be delivered as soon as the quarantine is lifted. (if the State does not bury them). People who got our price list can verify the above by dropping us a card. All will receive a square deal. Three of these bulls are old enough for service. These prices will not last, better act quick.

CAMPBELL & ANGEVINE COLDWATER, MICHIGAN.

Gurnseys Famous May Rose Strain. A select herd. Tub. Tested. Several A, R. O. Cows. J.K. Blatchford, Windermere Farm, Watervliet, Mich.

We have for sale a number of pure Guernsey cows. Village FARM, Grass Lake, Michigan.

Guernsey Imp. Jim of Edgewater 16384. Age 4 years, Reason for selling is in breeding. Write, JOHN EBELS, R. 10, Holland, Michig.n.



FOR SALE. Three Fine Young Bulls

8, 9 and 10 months old, from 18, 20 and 20 pound cows, each one giving over 10,000 lbs, milk a year—prices, \$100, \$125 and \$150. The two old-est nicely marked—the other has black back and sides, with some white. DeKol 2nd, B. B. 3rd, and King of the Pontiacs' blood. BIGELOW'S HOLSTEIN FARM

ESPANORE FARM, Lansing, Michigan.

Two Holstein Bull Calves

Excellent breeding and fine individuals. Write

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