tion and Milk Hygiene which appeared its poisonous nature, and the fact that ter wheat is as follows: under the authorship of C. J. Bous- the entire list of chemicals that have Improved Dawson's Golden Island.

tion is only one small phase of the as a general disinfectant. anything wrong with this cog, the machine does not work smoothly, and it completely for repairs.

into three groups, Sunlight, Heat in its pay for running the plant.

good construction should be provided price of old hens. whose barn was well provided with the flock is ready to be culled. windows. A minimum of four square feet of window area for each cow stall should always be provided.

Cleaner Stables-Besides allowing down abdomens or frozen toes. doubtedly result in the stable being heads and beaks. kept in cleaner condition. Dirt that is 5. The large, coarse-headed hens rendered visible is much more likely with sunken eyes. to be promptly removed than the filth 6. All very short, stubby hens with which slowly but surely accumulates feathers extremely heavy for their in the dark corners.

harmful or dangerous, but it may, and lets and those that are early hatched frequently does, afford either a rest- but much undersized. ing place or a breeding place for dis- 8. All hens that moult before Augease producing germs.

producing bacteria require for growth: Food, moisture and a suitable temperature, usually that of the body.

Heat-With other bacteria, not necessarily disease-producing, body temperature is not actually required, but they multiply at ordinary breeding purposes. atmospheric temperature within certain limits. These bacteria are the ones that bring about the decomposition of organic matter, the putrefaction of organic matter organic tive and fermentative groups of organisms. The putrefaction of vegetable tangular bodies and parallel top and answered, although they knew it not as yet.

| The putrefaction of vegetable tangular bodies and parallel top and as yet.

| The putrefaction of vegetable tangular bodies and parallel top and as yet.

| The putrefaction of vegetable tangular bodies and parallel top and as yet.

| The putrefaction of vegetable tangular bodies and parallel top and as yet. matter is usually accompanied by the hottom lines.

3. The hens with large, bright eyes, have objectionable odors. Such a constitute appearance and short, well-dependent of the colors of the church of the colors are usually accompanied by the hottom lines.

4. The patter action of vegetable and patterns and short as yet.

5. 10 mon 24, Paul refers to Mark as one or his fellow laborers, and in Col. 4: 10, to bear well. Frequent cultivation with some rotted manure worked around the hills and between the rows near any place where milk is handled.

4. The hens with dusty, worn feathers in Judea, in the famine foretold by get a glimpse of Mark with Peter in is what they need now. Heat in its various forms is another ers, especially worn tail feathers, but Agabus. Fulfilled their ministry; per-Babylon, where Peter refers to him in If the strawberry bed is past its that we should utilize wherever pos- 5. The hens that moult late. sible. We are depending upon heat as 6. The noisy, happy, friendly hens. a disinfectant every time we cremate

o. The early risers and those late great responsibility for his nephew.

and Barnabas would naturally leel a sort of nome did ne come from: This great responsibility for his nephew.

was the question an old minister infrom an infectious disease, every time 8. The vigorous hens with the faded Antioch. Into this church the Gentiles when they were considering whether of the strawberry plants. At a time ed for hay production, the details ing water, or every time we sterilize 9. The hens with the soft, pliable was a natural starting point for the candidate for the ministry. He knew ture in it, but is dry on top, burn the of live steam. Pasteurization is mere- 10. The hens with the thin pelvic ly a process of utilizing moderate heat bones spread wide apart. for a given length of time, in prefer- 11. The early-hatched, well-grown ence to higher degree of heat. As a pullets.

176 degrees for 1-2 minutes. Chemicals The chemical disinfect-

ants might be divided into three groups, according to their material tate, namely, solids, liquids, and

Gases-Certain gaseous disinfectants, of which formaldehyde is an exmost entirely upon our ability to properly confine the disinfecting gas. This is a difficult matter in the average stable and the time and expense of tightly sealing up all the openings in the stable would probably offset any advantages the method might possess.

Solids Solids almost without exeeption must be combined with more er less moisture before they are able to exert their disinfecting power. Therefore in looking about for a suitworth \$30 per ton, a pound of gain been desertion, Barnabas is willing to no doubt that Paul strongly disaptored of him and his course. One of to dig out surplus suckers of the red straight meal ration, the milk thus mark's first failure.

**Now is the time proved of him and his course. One of to dig out surplus suckers of the red takes and defaults embroil other people. Mark's occasioned dissension becomes the strawberries should be well.

and must be used only with consider- ment; but the most efficient machin- stead of one. Paul chose Silas; called mainly right." Is it, however? The the ground throughout the winter. A

very much bigger and more complex The disinfectants usually spoken of The experimenters placed the O.A.C. periments gave the following average subject—milk hygiene. However, we as the coal-tar group, a large number No. 104 as the most popular variety yields in bushels per acre: Cow mashould regard stable disinfection as of which are available, are generally under test. This new wheat, which nure, 27.2; superphosphate, 27.1;

it can run before it must be shut down tory like any other factory. Like any with winter wheat. There are many disinfecting agents. the best materials in the world to work leading variety of winter wheat and of one hundred and sixty pounds each,

necessary for egg production, but the eight years. In seven out of the eight one-third of each of these amounts per Sunlight Sunlight is always re-ability to manufacture eggs from feed ferred to as the cheapest disinfectant must be there first. It pays to cull out at our disposal. This fact should be the poor layers any time to save the kept constantly in mind in the con- feed and labor they cost, but to make a struction of dairy barns or stables of profit on them it is best to cull in late any kind where animals are kept. The summer or early fall before the rush maximum window area allowable with of spring chickens lowers the market

for, and where there is a choice, and Shut up all the hens and pullets there is usually, windows on the south some evening. Count them and deside of the barn are preferable to any cide just how many can be readily other side. This fact was in the minds kept during the coming year without of the officials who drew up the dairy crowding, for this is very likely to score card in allowing a generous hurt egg production and increase the

1. Poor layers and all old hens. 2. Cripples and hens with broken

the entrance of sunlight, which in 3. The sick, quiet, inactive hens ttself is always desirable, the illuminathat spend much time on the roost. tion afforded by the windows will un- 4. All "crow heads" with long, slim

breed The dirt itself is not particularly 7. All late-hatched immature pul-

10. All hens with solid fat abdo-

11. All hens having bad habits the ers).

Feeding Hogs.

mal Husbandry at the Central Ex- to be general assistant in all the du- men. mal Husbandry at the Central Experimental Farm, Ottawa, it has been repeatedly demonstrated that the addition of skim-milk to a meal ration to be general assistant in all the dument. It is of the journey. From Cyprus the missionaries had gone to Perga. Here in the privilege of fellowships, for we know that he was the nephew of Barample, are excellent disinfecting agents, but only when the proper conditions are provided. Disinfecting by means of gas is usually spoken of as the central Ex
means of gas is usually spoken of as the central excellent disinfecting by material into and peril of robber and bandit all the means of gas is usually spoken of as the central excellent disinfecting by in unknown territory. There were dantal material into an and work; and was associated with and work; and was associated with and work; and was associated with and peril of robber and bandit all the part in the stables on our farms.

The concentrate this bulky material into an and work; and was associated in the stables on our farms. perimental Farm, demonstrated that II. MARK REJECTED, ACTS 15: 26-40. the early Church concerning the plants in general but, it always seems in a ration in which skim-milk and Vs. 36-38. Some days after. The origin of his Gospel connects him inti- a pity to throw them away. Not all meal were fed, the feed required to first missionary journey had been com- mately with Peter. produce a pound of gain averaged two pleted and Paul and Barnabas had re- A Sad Failure, and its Evil Conse- them will live probably but some of pounds per meal and 4.8 pounds of turned to Antioch. When on the first quences. The highest privileges do not pounds per meal and 4.8 pounds of turned to Antioch. When on the first quences. The nignest privileges do not skim milk, with hogs averaging 125 journey, they had come to Perga on pounds at the end of the test. Assuming that without milk these hogs would have consumed four pounds of meal for each pound of gain, it may brether Paul's love for his courses tions that he knew the missionary pounds of turned to Antioch. When on the first quences. The nignest privileges do not always ensure the greatest achieve. After the harvest of raspberries and blackberries the old canes should back at Perga in Pamphylia, apparate to the new bed.

After the harvest of raspberries and blackberries the old canes should back at Perga in Pamphylia, apparate tions that he knew the missionary pages. would have consumed four pounds of action. Let us go . and visit our entry learning the dangers and privameal for each pound of gain, it may brethren. Paul's love for his converts tions that he knew the missionary pests. Some of the raspberries and blackberries may also have too many strikes us as rather severe when skim-milk effected a saving of two encouragement, prompted the thought. strikes us as rather severe when pounds of meal. With skim-milk worth blackberries may also have too many cents per hundred and meal departure on the first journey had "slacker" to-day. But there is at least to each plant, and about 4 blackberries. worth \$30 per ton, a pound of gain departure on the first, journey had "slacker" to-day. But there is at least to each plant, and about 4 blackberry would show a feed cost of 3.96 cents

Autumn Sown Crops

Results of Experiments Over Ontario.

years. The average yield per acre of winter wheat 1,639 pounds per acre. limate). The latter substance has one one hundred and twenty-eight success- Winter Barley and Winter Emmer The following are extracts from an great advantage in that it is practic- fully conducted co-operative experi- —In three years' co-operative experi-

a single one that did not have some Improved Imperial Amber. .25.59 bus. used as feed for farm stock.

one of the cogs in the big wheel of regarded by most authorities as the was originated at the Ontario Agri-muriate of potash, 26.8; complete clean milk production, and if there is best for general disinfecting purposes. cultural College through cross-fertil- fertilizer, 25,9; nitrate of soda, 23.3; RUNNING AN EGG FACTORY. autumn to any person who makes ap- and fertilizers were applied in the is only a question of time how long. Every flock of hens is an egg fac-plication for the variety experiment spring of the year, the cow manure

They may be divided, for convenience, on and still fail to produce enough to a leading variety of winter rye have superphosphate at the rateof three been tested throughout Ontario under hundred and twenty pounds, and various forms, and Chemical sub- Good feed in sufficient variety is similar conditions in each of the past complete fertilizer at the rate of

By DR. C. A. ZAVITZ, Ontario Agricultural College, Guell h. Winter Wheat-Five varieties of years the rye surpassed the wheat in winter wheat have been distributed yield of grain per acre. In the averfor co-operative experiments through age of forty carefully conducted exout Ontario in each of the past seven periments, winter rye gave 1,976 and

The following are extracts from an arrive experiexcellent article upon Stable Disinfec- ally odorless. Against this we have ments for each of five varieties of winments, winter barley gave an average

> ization, will be distributed again this and no fertilizer, 19.0. The manure at the rate of twenty tons, nitrate of other factory, the flock may be given Winter Wheat and Winter Rye-A soda and muriate of potash at the rate

The Sunday School Lesson

SEPTEMBER 9

John Mark. Acts 12: 12, 25 to 13: 13; 15: 36-40; Col. 4: 10; 2 Tim. 4: 11; 1 Peter 5: 13. Golden Text-Whatsoever thy hand findeth to do, do it with thy might.-Eccl. 9: 10.

number of points to the dairyman danger of disease. The next morning study the life of John, whose Roman Barnabas on a special mission, Acts Acts 12: 12. This home was evidently cleave to Mark. a centre for the Christians in Jeru- III. MARK COMMENDED, 2 TIM. 4: 11. salem. Peter speaks of John Mark as V. 11. Only Luke is with me. Luke operative experiments with autumn ing over than others. If you find it his son (see 1 Pet. 4: 13), which is the beloved physician referred to by means that the young man had come Paul in Col. 4: 14. He was the friend to know Jesus through the teaching of and companion of Paul, joining him in his second missionary journey at Peter. Besides being a companion and Troas and with him in his third journey at Commence in the latter part of Aug-Peter. Besides being a companion and Troas, and with him in his third jourust and all farmers interested should helper of Paul, he was later the com- ney. He was also with Paul in his panion of Peter, and the Gospel of imprisonment at Caesarea and Rome.

12. All cockerels not needed for lence. He came to the house of Mary. again. This means that Mark had

formed the duty of conveying the terms of affection. money. Took with them John. Evi-

brought up with Herod; foster-broth-er. Manaen's mother had nursed both ways perhap but usually.

We do not know much about the there. Salamis; a port at the eastern great leaders of our churches, the out- before cold weather stops their end of the island. Had . . John to standing preachers, have begun their growth. According to the Division of Ani- their minister; John Mark, who was ministry as the colleagues of older

they departed asunder. Both were detween Paul and Barnabas. Core with Poisone Some very good. See many confuse noise with action.

The Gospel of the Second Chance. Some world will scarce believe a mulched. This is more necessary in both continue working for Christ, and we have two missionary companies inman repents, and this wise world is localities of variable climate than in man repents, and this wise world is localities where the snow remains on the stead of one Paul shows Silvery and throughout the ground through

LESSON FOREWORD-This week we came down to Antioch with Paul and name was Marcus. John Mark is asso- 15: 22-32. Confirming the churches: when he was released from prison, relationship which made Barnabas

Mark was the outcome of this companionship.

I. MARK CHOSEN, ACTS 12:12, 25 TO 13:5

The third Gospel and the story of the panionship.

Acts belong to him. When writing this second letter to Timothy, Paul is a prisoner at Rome. Demas has for Ch. 12: 13. When he had considered saken Paul and his other companions the thing; when he had comprehended have gone on missions. Paul is lonely. or grasped the significance of his ex- Take Mark, and bring him with thee. patch its needed attention, as we are Ottawa, of which Mr. L. H. Newman, This home had an open door for Peter lived down his failure, under the en-

money. Took with them John. Evidently John Mark's father was dead The Home of John Mark. "What cut off the top with the mowing many

general principle, the higher the 12. Large, strong, active, quick-tetrarch of Galilee and Perea, and the Mark, but we do know that she opened row from each side of the row into oats, from which it would appear that temperature the shorter the time rematuring cockerels of desired variety murderer of John the Baptist. As they her home to the followers of Christ, the centre. Leave the plants 6 to 8 immersion of the grain for fifteen murderer of John the Baptist. As they her home to the followers of Uhrist, the tentre. Leave the plants of the sime of the grain for fifteen and fasting. God's answer was a call and that is an indication of conviction the weakest plants and leaving the leave the washing the leave the plants of the sime plants of the For example, to destroy the tubercle fitable poultry production—breeding, missionaries. Sent forth by the Holy culling, feeding, housing, and care.

These are two major factors in promissionaries and Saul to be and devotion. There are those who missionaries. Sent forth by the Holy think that not only did Christ's disconstant that it was in the upper room of the Holy Shirit. The persons, that that it was in the upper room of the strawberry bed should be preferred, at least so far as the renewing the strawberry bed should be preferred, at least so far as the renewing the strawberry bed should be preferred, at least so far as the renewing the strawberry bed should be preferred. they will put the poultry business on a practical business basis.

ance of the Holy Spirit. The persons, but that it was in the upper room of the task, the route are all marked out. Seleucia; the seaport of Antioch, at Supper, and gave the great teachings be done quite early in the season, generally the earlier the better as it gives Cyprus. Barnabas had been born Great Fellowships. Many of the the plants left a chance to get started grain.

name was Marcus. John Mark is associated with three great figures in the Mothing is recorded about the journey of Barnabas, of Barnabas and Mark. But doubtless to Barnabas. It was to the house of faith that Barnabas had in him. It Material will be supplied, free of mark would be canes allowed to lie marks and mark will be supplied, free of marks and the canes allowed to lie marks.

Detailed with three great figures in the giving them new hope and courage. Nothing is recorded about the journey left unfertilized as a basis of comparison.

CO-OPERATIVE EXPERIMENTS FOR 1923-4.

Material will be supplied, free of removed and the canes allowed to lie

apply at ence for the circular giving During the spring months we are

perience. Peter had just been deliver- After many years, Paul, who had re- expecting to soon be repaid with a ed from the prison by the angel, who fused to take Mark on the second harvest of delicious fruit. After the (cannibals, feather-pullers, egg-eat-left him on the street a free man. journey, now asks that he be brought harvest is over, however, we are apt Peter felt-dazed by the strange experto him. The parting roads have met to neglect the care of the berry patch. Perhaps we think it will get along Mr. Newman gives in tabular form and he goes there to tell of his great couragement of Barnabas. He has without much care until the following statistics embracing the days of ripenexperience. Many were gathered to- "come back," as the saying is, and has spring but this is not the sight of are several things that need to be age length of straw, including head,

second year, it is time to renew it if across the bed. After this is done,

may be some spaces where the plants too much bulky stuff having gone to them will, and they will help fill out

ple. Mark's occasioned dissension be comes the strawberries should be well able caution, notably carbolic acid and ery is that which runs the quietest, also Silvanus. He was one of the leaddistinctive note of Christianity is thick blanket of snow takes the place
ers in the church at Jerusalem and God's power to redeem and restore. ers in the church at Jerusalem and God's power to redeem and restore. of the mulch. Raspberries and black-

Rinso is as splendid for the regular family washing as Lux is for fine fabrics. Lever Brothers Limited charge, from the Ontario Agricultural on the ground where they are covered College, Guelph, to those Ontario with a mulch. Certain varieties, of farmers who wish to conduct co- course, are more adaptable to droop-

Make the

Rinso

liquid first

Do not put Rinso direct

from the package into the tub. Mix half a package of

Rinso in a little cool

water until it is like

cream. Then add two

quarts of boiling water.

and when the froth sub-

sides, you will have a clean

Add this liquid to the wash

tub, until you get the big

lasting Rinso suds. Then

seak the clothes clean.

amber-coloured liquid.

Testing Varieties of Grain. Twenty-four of the Farms, Stations

in testing varieties of all kinds of grain. All these experiments are under the control of, and results are reported to, the Cereal Division in formerly Secretary of the Canadian Seed Growers' Association, is now chief. as Dominion Cerealist. In his strength of straw on a scale of ten points, yield of grain per acre, and weight per measured bushel, after cleaning, of eighty-four varieties of spring wheat, of four varieties of Antioch, for the relief of their broth- be welcomed. In 1 Peter 5: 13, we emmer and spelt, of thirty-two varrye, nineteen varieties of field peas, of twelve varieties of field beans, of one it is to be allowed to bear again. First tested for seed production—all on the dently John Mark's father was dead The Home of John Mark. What cut off the top with the mowing males and Barnabas would naturally feel a sort of home did he come from?" This chine. Set the knives so that it will thirteen varieties of barley and a like had come in large numbers, and so it they would receive a young man as a when the ground has plenty of moisgiven being of the date of cutting, great missionary journeys. Simon . . that the ideals and spirit of that home top over quickly. Leave just enough length of straw including head, weight great missionary journeys. Simon . . that the idea and spirit of that home top over quickly. Deave just enough length of straw including nead, weight called Niger; probably because of his would most likely reveal themselves in of the old straw mulch on the berry green per acre, weight dry per acre, swarthy countenance. Manaen . . . his character and his work. Not alpatch to help carry the blaze quickly and percentage of dry matter to green.

erally the earlier the better, as it gives comprised 15,676 samples of seed

Probably you set out a new straw- rather work in the field has given us berry patch last spring. If so there an unbalanced agricultural output



ISSUE No. 35-23.

DR. B. J. KENDALL COMPANY.

Only a few w Labor Member that the Prince the one of us," Not only is th Britain; by re manch-owner, H. one of us" to B In days gone "blue" blood is themselves on But our present and man, and and the princess and are often se sports and pastin a good deal abou A huge number ted to, and sha future King. Af the hunting-field. the polo-ground, this year will co manch in Canada up the duties of doing, become half the small bo It will be reme

ust, 1919, the Pri hand for a three r da and the Unite ceiving an enthus the many large through, the Princ that he would ta right off the beate He had two red ranch for this pur know exactly how lived who tolled and, like all other

lighted in his your stirring tales of o The Prince's ch Ranch, owned by and situated in the province of Albert stayed a very she Lane, but he was free and easy life t mind to have a ran it came about that ner in Winnipeg delighted audience Bedingfield Ranch.

This ranch, whi acres of prairie, ad ed by Mr. Lane, wh chase. Bêtter known the ground bought the middle fork Calgary, with its This town has grow!

Red Indians as Nestling in the Rocky Mountains, th in an ideal position prize cattle. It wo good setting for an because, at no gree Bedingfield, is the ch

Stony Creek Indians. This tribe honored he visited them, by chief under the name ing Star. For the cere eldest son had to dres paint, and take part serious investiture.

ated all the tribal rite During this week leave for his second which he is undertaking sake of passing an e on his own ranch. T Duke of Cornwall, he bec on board an ordin and, during his stay i America, he will not ta than one or two public is to be a complete "re tishers agree that he It is certain that all who are employed on t and W. L. Carlyle, th be delighted to have

Once again Mr. Lane act as host to H.R.H., task will not be difficult has insisted upon sleep log cabin or a tent H! fully occupied in roam and acres of grassland. his workers to perform varied duties which k "at it" from sun-up to

The Car's Ba The motor-car was a

eny visible means of lo ter-cycle followed and disappeared "Gee whiz!" he said. on, "who'd 'a' s'posed

The culture of pecan tried in China.

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E HAVE AN ENQUIRY FOR TON Hand Press that will evaring, long. Wileya Publishin.