weeks from egg to mature louse. This has the habit of spending its life on the feathers. It is not so irritating and the small parasite, and the Lipeurus and deposits its eggs singly at the squalidus, a long, slender, yellowish from the time the chicks are hatched duced. • base of the feathers. The head louse. colored louse. Lipeurus heterographus, is commonly found on the head and neck of young. These birds are frequently infested

THE NEED OF ETERNAL VIGILANCE

ness as it must generally be conduct- live stock there is a whole new list of Above all, take the proper precaued these modern days has various things to learn. Balanced rations, tions right at the start to prevent the ramifications. No longer can the man parasites, internal and external dis-

and more of the physical operations sleep on the job. It is this job that caustic and irritating drugs may do isn't compressible and the clog was row at the desecration of God's holy goes on. But we may go all up and down the long line of physical tasks that are apparent to the casual observer, from the turning of the sod in early spring to the shucking of the last ear of corn in the late fall, and still the half has not been told.

Soils are no longer virgin, most of them have reached the point where they need intelligent care and treatment. In order to geep the soil rich and productive we can no longer consider it merely as a "clod to tread upon," but we must learn to know it maca, meaning "Land of Wood and as a living thing, for such it is, and Water."

Losses due to the infestations of about one week to reach the hatching White diarrhoea is

nually to the poultry keepers of On- abdominalis, sometimes called the served that most chicks dying from the Common alfalfa from the Central tario. Small insects working out of "blue louse," is smoky grey in color this disease have portions of the yolk Western States would not live long in sight of the human eye, their presence and one-third larger than the preced- that have not been absorbed, remainis often unsuspected until the birds ing. It sticks closely to the body, ing in their bodies. show unthriftiness, loss in weight, may be found anywhere and is easily. The disease develops in from three gated, however, proved hardy in this

turkeys, the Gouiodes stylifer and the tite, crowd closely together, the yolkturkeys, the Gouiodes stylifer and the Lipeurus polytrapezius. The Gouiodes stylifer is the most common. It is a large louse bearing some resemblance for and infest chickens. The body louse, Menopon biseriatum, is light yellow in color and sticks pretty turkeys, the Gouiodes stylifer and the Lipeurus polytrapezius. The Gouiodes stylifer and the final Courodinate in the tite, crowd closely together, the yolk four plots seeded in the spring of another experiment of thirty-lave and it may be that his words here contain and there is a brownish white or whitish discharge or diarrhoea, which is very sticky and gives the chickens a pasted-lup and there is a brownish white or whitish discharge or diarrhoea, which is very sticky and gives the chickens a pasted-lup and the final Courodinate and the struction of the temple, and it there is a brownish white

species sticking close to the skin and geese to a limited extent, the oily na- spring hatches. feeding thereon is very irritating. The ture of the skin of waterfowl being a Sour milk has proved very effective Menopon pallidum is similar to the good preventive against these external for baby chicks, not only because of preceding, only somewhat smaller and parasites. The species commonly its food value, but because it is a found are Docophorus icterodes, a very preventive of this disease. If in addismall parasite, and the Lipeurus tion to sour milk, potassium permanthe feathers. It is not so irritating small parasite, and the Lipeurus tion to sour milk, potassium permanof other counties seed of the Varie-

chickens. It is dark grey in color, with one or all three species- Lideposits its eggs singly on the down peurus baculus, Gouiodes damicornis, about the head of the chick. It takes and Goniocates compare that has been affected, should be clogged, and not having the usual type Vs. 14-17. The outer of the chick is taken and Goniocates compared that has been affected, should be clogged, and not having the usual type Vs. 14-17. The outer of the chick is taken and Goniocates compared that has been affected, should be clogged, and not having the usual type vs. 14-17. The outer of the chick is taken and Goniocates compared that has been affected, should be clogged, and not having the usual type vs. 14-17. The outer of the chick is taken and Goniocates compared that has been affected, should be clogged, and not having the usual type vs. 14-17.

teeming with bacterial life. We must When chicks are hatched, they have also grow a variety of crops, and not portions of the yolk which must be one of them but has a life history of absorbed. For this reason they should its own which has to do with plant not be fed sooner than forty-eight diseases. These may seem trivial sixty hours after hatching. If fed too things, but the success or failure of soon after hatching, the yolk is not any plant or tree or flower is often absorbed rapidly, and this brings The farmer must be ever on the entirely dependent upon a knowledge about digestive troubles, often prewho is inclined to rest that part of eases and how to prevent and treat of the biggest losses in the poultry

has ceased to be the only requirement.
The man who would make the farm terest for him who aspires to do things who fails to take these simple precautive.

The sink was filled half full revenue by brokerage. All this action who appeared the construction of the sink was filled half full revenue by brokerage. And he observed the went to church. And he observed the went to church. successful concern these days in the country. To know and do the tions surely does not value the benefit of water, the lower end of the pump counts for the scenes which Jesus with helpful customs of the religion of his nessed in the temple courts, the jost-day by visiting the distant temple of should be a first class mechanic. Few right thing at the right time and to of preventive measures which are at occupations demand familiarity with know how and when to prevent or re- least 90 per cent. effective.



Hard Luck.

Bug Lover-"Who can spoon under a bright light like that, anyway?"

ICE CREAM FOR THE FARM HOME TABLE

BY BELLE MILLAR, DAIRY DEPT., O. A. COLLEGE.

freezer get one a little larger than Some one asks, "What is the eas- mately 25 cents per dozen for the the trunks. what is required for the family so lest ice cream to make?" It is one three years. when company comes one freezerful made by freezing a cream that has These contests are associated with will do. When a freezer is purchased been sweetened and flavored. that is rather on the small side, it. To a quart of thin cream add three-try, which grants registration to birds is to clean up the apple-storage house.

too high. The other opening should named as there is a great difference females and otherwise meet official for a thorough dose of that. too high. The other opening should named as there is a great different brands of requirements. According to the report on the contests, which is issued overlook the storage packages. If one have as many as six or seven varieties test part of the day, allowed to the respect to

proportion of ice to salt as 3 to 1, zen, the addition of strawberries that Leghorns, White Wyandottes, and tainer in which it is stored, or from in food laboratories have found that then the work of freezing continued. 8 to 1 is a good proportion for freez- gives a can of strawberry ice cream

Do not fill the can more than twothirds full with the mixture that is to be chopped and added to the freezer be frozen, then put on the top and fill when the mixture is partly frozen. tub with ice and salt.

First put in enough ice to fill it up can give the family many pleasant one-third of the way,, then put in surprises. one-eighth as much salt and continue. Then we should bear in mind the putting it in layer by layer but keep- fact that it is not necessary to have ing he same proportion of salt to ice. cream in order to have frozen treats. It is not necessary to put sait near We all know that fruit juices with the bottom as it will work its way the addition of water and sugar make down.

Recipes are many and I think it a by taking this same mixture and, good plan to make note of results. after adding the beaten whites of

When purchasing an ice cream effect on the margin of the book.

cream, when the cork may be removed. It is always best to taste the mixas Bulletin No. 38 of the Dept. of is using new barrels or new boxes and the brine run off without tipping ture before putting it into the freezer Agriculture at Ottawa, 23 per cent. for the purpose everything will be all

One good way is to place it in a sack by making additions many fancy registered by their owners. Nine not be the slightest odor to them. dishes may be made. For example, breeds were represented, the leaders Few people realize how quickly an Although many cook books give the when vanilla ice cream is partly frobeing Barred Rocks, Single Comb apple will absorb odors from the con-

that will be much enjoyed. For nut ice cream the nuts should up the space between the can and the Thus we see that by varying the most unbearable when standing still. flavorings the fruits and the nuts, we

refreshing drinks. Sherbets are made

the various forty species of lice that stage and two weeks for the young germ known as Bacterium pullorum, tural College with different varieties gate many thousands of dollars an- The large hen louse, Gouiocotes eggs from affected hens. It is ob- covered more than a decade ago that

Two species are commonly found on wings. They have little or no appe-

until past the time for the disease to make its appearance, most of the chicks will be saved.

Baby chicks coming from a hatch promptly marked and should not be used in the breeding pens.

who is inclined to rest that part of his anatomy which lies above his ears, expect to farm with success. Brawn has ceased to be the only requirement.

The disease, which is responsible for one of the biggest losses in the poultry business. Potassium permanganate cut from an old inner tube and the has ceased to be the only requirement.

The disease, which is responsible for one of the biggest losses in the poultry business. Potassium permanganate cut from an old inner tube and the deges tacked about the sides of the into temple-currency by expectation.

A large circle of rubber was then could only be paid in temple-currency. The family pew. And now we have edges tacked about the sides of the into temple-currency by expectation and the family habits. The disease, which is responsible for one of the biggest losses in the poultry business. Potassium permanganate edges tacked about the sides of the into temple-currency by expectation.

A large circle of rubber was then could only be paid in temple-currency. Ordinary money had to be changed the family pew. And now we have edges tacked about the sides of the into temple-currency by expectation.

The poultry region is a poor substitute for the family pew. And now we have edges tacked about the sides of the into temple-currency by expectation.

that they will be able to fight off the Bands Check Tussock Moths. II. CHRIST THE NEW CENTRE OF SPIRIT-

Egg-Laying Contest Results.

Jamaica was originally named Xay- for the whole of Canada, carried on After the eggs hatch, the young at Ottawa, and provincial contests caterpillars may crawl from tree to conducted at an Experimental Farm tree and infest a large area. These

The number of birds entered as ing the insect. well as the average yield per hen, in- Trees that are free from the cocreased with each succeeding contest. coons of the moth may be kept clean The first year 1,610 birds gave an by banding the trunks with some On the farmowe have the cream and that next time the proper proportion 480 yielded an average of 134.5; and either the adult moths or the cater-In many cases the ice also. A freezer may be used. If another recipe has for the third year, namely, 1921-22, pillars from reaching the branches. is all that is needed to give the boys given good results and a dish much 2,590 birds yielded an average of Sticky fly paper may be tied around liked by all, make a comment to that 146.3 eggs per bird. The average cost the trunk or a band of a special preof the eggs produced was approxi- paration may be smeared directly on

means extra work if two lots have to quarters of a cup of granulated sugar, that lay, in 12 months, 200 or more stir well and when the sugar is the least twenty four stir well, and when the sugar is dis- eggs weighing at least twenty-four become moldy; sweep the room out It is well to have two openings in solved, add about two tenspoonsful of ounces to the dozen. Males are also thoroughly; open all the windows and the tub of the freezer. One near vanilla extract and freeze. No de-eligible for registration if they are air it well. Then make up some good the top to prevent the brine getting finite amounts of flavoring can be the sons or grandsons of registered whitewash and give the whole interthe freezer.

Buy the very coarse salt such as ice cream manufacturers use, as it will sive more satisfactory results.

Can, remembering that it will not of the nens taking part qualified for the flavor be registration in 1920, 26.4 per cent. in 1921, 40.8 in 1922. In the latter year, and the balance should be discarded and the balance should be thoroughly orioles. There is also a drinking delicacies. There is also a drinking delicacies. There is also a drinking pedestal. The cardinals, bluebirds, the folks are happiest when orioles. The cardinals, bluebirds, the folks are happiest when orioles. The cardinals orioles and girls orioles are reported to have been orioles.

Driving Comfort.

Driving a heavily laden farm truck on a summer day is usually a pretty hot job, which sometimes becomes al-As much of this excessive heat comes from the exhaust pipe, quite a bit of the discomfort can be overcome by covering with asbestos the exhaust pipe where it runs in front of and underneath the driver's seat. The asbestos is wrapped on and then clamped or strapped with thin metal strips or with wire: When cool days come the covering can be removed

For example, if a recipe is tried and eggs, it is frozen, and the resultant we think too much or too little sugar dish will be very welcome on a warm be collected in a pile, it would cover Westminster Abbey.

Hardy Alfalfa in Ontario.

A large number of tests have been conducted in past years on the experimental plots at the Ontario Agriculfound in the ovary of the hen and in and strains of alfalfa. It was dis-Ontario. Variegated alfalfas, such as the Grimm and the Ontario Varie-

hay per acre per annum from the the holy precincts, declaring that overthrow of the city by the Romans.

been produced and sold for seed purtice the centre of worship, the means and loved and valued the religious service

When the Drain Clogs.

of force pump on hand, it was necestary to improvise one for the number of God.

Temple were the scene of a busy traflife and work of the church of God. sary to improvise one for the purpose, fic, arising from the circumstance that In Jerusalem at the present day, some or else put a slop pail underneath. pilgrims found it inconvenient to of the Christian churches, represent-We didn't have to use the pail.

I cut a block of wood about four and were, therefore, obliged to pur- menian and other creeds, are disgracinches in diameter and a good inch chase them from the dealers on the ed by the sale of relics and other supfood requirements, insect pests, and hours, and in many cases not until and a half thick, boring one hole clear spot. Another circumstance in favor erstitious objects. Hatred and strife through the centre and another half of the local dealers was that the ani- between the different denominations through large enough to fit tightly passed by the priests as satisfying not be so if Christians all remembered the standard of perfection required Christ's holy act in claiming the A tire-pump barrel would do just as by the Law; consequently it was con- temple for the pure worship of our alert. He is a man of all work, a of these things and of the methods of disposing the chicks to white diarr- well, providing the plunger leathers venient to buy only such as had al- Father who is in heaven. are tight. By making the hole slight ready been licensed for the purpose. ly smaller, the threads on the end of A third circumstance explaining the the pump barrel cut into the wood, extensive traffic was that the templeforming a tight connection.

The tussock moth is a midsummer pest of shade trees and orchards and should always be watched for. Some Six thousand, six hundred and seasons it appears in much larger annoyed by the open rebuke levelled witnesses. eighty hens competed in the Egg- than normal numbers and if neglected laying Contests conducted by the Do- may do great injury. The female minion Experimental Farms in the moth is unable to fly and must crawl

or Station in each of the provinces. facts are taken advantage of in fight-

A Rainy-Day Job.

A good rainy-day job for these days

Nature study with one's children is Book for Children," published the most delightful and helpful of the Brown & Co. is a delightful and helpful of the Brown & Co.

the air of the room. Mustiness or bad odors of any kind will very soon cause an apple to become unpalatable.



Wise Worm Chick-"Don't you want to play with me, Mr. Worm?" Worm-"No, I'm afraid it might be

foul play!"

The Sunday School Lesson

AUGUST 17.

Jesus Cleanses the Temple, John 2: 13-22. Golden Text My house shall be called the house of prayer. — Matt. 21: 13.

ANALYSIS.

Several car loads of seed of high quality of Variegated alfalfa have been produced and sold for seed pur-

year on the fourteenth day of the ceased, the holy work of God would month Nisan, the day preceding our go on, a new temple would be raised Good Friday, and lasted for over a to God's praise. The proof of this is The other day the kitchen sink drain week. Jerusalem at Passover was the origin and history of the Christian

due of a half-shekel, which every male

UAL WORSHIP, 18-22. Vs. 18-22. The traders were taken seek and to find ways and means of by surprise, but presently the Jews, honoring him who said, "Ye are

tat their administration, demand an explanation. What credentials has Jesus for acting in this manner?
Jesus' answer is, "Destroy this temers, sleepy appearance and drooping hay per acre per annum from the holy precincts, usually overther or no anne- eleven years of this test was slightly God's house was not to be turned into We know from other sources (Mark This act of 12-12) that Jesus predicted the final an emporium, or market. This act of 13:1,2) that Jesus predicted the final

louse, Menopon biseriatum, is light yellow in color and sticks pretty close to the skin. It lays its eggs in bristles.

The Common anala has variegated this temple, and in three days I will death and resurrection, the death and resurrection this body." This was not understood to the skin. It lays its eggs in bristles. DUCKS AND GEESE.

DUCKS AND GEESE.

DUCKS AND GEESE.

Three species infest ducks and hatches than in the winter or early are fully opened.

Spring hatches.

Variegated alfalfa has violet, green, these words of Unrist referred to the minds of the search of the minds of the minds

We see by this lesson that Jesus He knew also that, even if it were de-V. 13. The Passover began in each stroyed, even if the temple service church. Sometimes we forget that bring their own animals for sacrifice, ing the Roman, Orthodox Greek, Ar-

Public Assembly. The need of this is a living issue to-day. The motor

filled the barrel with water. Then the ing of traders and animals, the unrubber was pressed about the drain seemly chaffering, the iniquitous overthe appointed times. Amid these asa greater variety of machinery than pair the wrong thing is the price of modern diversified farming. More success. There is no time to loaf or and more of the physical operations sleep on the job. It is this job that caustic and irritating drugs may do reach the drain seemly chaffering, the iniquitous over-the iniquitous over-the iniquitous over-the iniquitous over-the and the handle forced down. Water the handle forced down. Water the success. There is no time to loaf or ing remedies to baby chicks, since and the handle forced down. Water the success and the handle forced down of jesus was filled with sor-town at the description of God's holy of all, he found opportunity to reach the description of God's holy of all, he found opportunity to reach the description of the description of God's holy of all, he found opportunity to reach the description of God's holy of all, he found opportunity to reach the description of God's holy of all, he found opportunity to reach the description of God's holy of all, he found opportunity to reach the description of God's holy of all, he found opportunity to reach the description of God's holy of all, he found opportunity to reach the description of God's holy of all, he found opportunity to reach the description of God's holy of all, he found opportunity to reach the description of God's holy of all, he found opportunity to reach the description of God's holy of all, he found opportunity to reach the description of God's holy of all the description of God's holy of the description of God' of the farm are being done by ma- calls insistently for eternal vigilance. more harm than good. Potassium not very tight. It came out the first temple, and, making a whip of cords, world with his teaching. The public permanganate is an internal antiseptic and a tonic which will tone up the general health of the chicks so the general health of great crowds gather, is a challen, opportunity to Christian worker meet and mingle with people, and

TRAINING OUR CHILDREN

first three years of operation. These to any tree upon which she lays her How to Keep Children Happy and Contented During Hot Weather.

BY ETHEL CL ARK BICKEL.

"Oh, look, dear, see that lovely baby flower guide. They also los oriole!" exclaimed Betty's aunt. "Scuse me, Aunty, but it isn't an trip, and are fairly ecstation oriole, it's a redstart," returned Betty are treated to a song by after a momentary glance upward. bunting or brown thrasher. Betty was, at that time, only a trifle with each other in the length over four years old.

I have repeated my little girl's re- tanagers, as well as numer mark merely to illustrate what I have birds they never seen in the tried to do for my little folks during The summer months go the summer months, namely, to teach for the family interested them to know and love God's wonder- study. Needless to say, he ful out-of-doors.

the most joy out of it, one should go loves the stories which he to the woods often; two or three out- told to Peter Rabbit, better ings a week are none too many. How- fairy tales. own yard, if necessary. In our yard, fortable in hot weather. with its many trees, we frequently simply, bathe them frequent of birds nesting in a single season. test part of the day, allow We have a feeding table for them, remain up later in the ever orioles, phoebes, woodpeckers, catbirds, thrushes and chipping spar- rayed in these simple gar rows visit this bathtub daily, and the can get the most out of children never tire of watching them. do three-fourths of their grades and the children never tire of watching them.

rives. Then for the bird guide! "Oh, Mother, I've found out what it is! See here, the picture of it is on page Betty will exclaim delight delay a quick and easy edly. Sometimes a flock of cedar finding the firing order waxwings stop with us for a day, engine. meanwhile helping themselves to our neighbor's cherries. Once, early in One is to take off the value of th

hailed with delight by the children. while doing so have someone Wild flower study, necessarily, engine over slowly by hand. must be conducted in the woods or serve in what order the intra-valves fields or along the country roads. Fre-rise. This will be the firing or ar of quently, when the father of our fam- the engine. ily has finished the day's work, we all pile into the car, and, with a simple petcocks, open them and pack a small petcocks, open them and pack a small petcocks. lunch, speed away from town. The wad of paper in each. They can the

track of the birds they see lists of quails, bobolinks, and

may be continued through

In order to make my ch

ing the summer. An Engine's Firing Order. At times we need to know

the open. I sometimes think

the summer, an orchard oriole happened our way, and another time a plates and ascertain which the exhaut raives. flock of goldfinches. Each event was Intake and which the exhaus and hailed with delight her the skill watch the intake valve and the

children are never happier than when engine over by hard and the order some flower, new to them, is discover- in which the compression ed, and must be hunted up in the wads out is the engine's firing order.

MEDICINI THE

President of Science 1

A despatch fr Science plays a perhaps, secret every citizen, an tion of that fact of Toronto peopl vocation Hall to to the inaugural ish Association of Science, and to Sir David Bruce outline of the rec Sir David's ac sive in its scope

to indicate its cor but in addition to medicine to take battle with diseas other things, the money to provid modern cities wit ings; the respon vidual citizen to his children; the widespread appli knowledge about mins to diet, an more energetic at a disease which l conquered ultimat hearted co-opera promotion forces. "Medicine in fu strategy; instead it must assume Sir David. "It m that 'the man wa

send for a doctor

future must freque

while they are

order to detect a

ture from the no

and urge modes of

to the laws of p

the public health. to it that environ

ance with scientif

"The medical

"It may be a le

Growers' Association the greatly increas the Island, which a 300 per cent. crop last year, of accoun acreage. It is ex acres of certified se Halifax, N.S.-Gr

to-day the largest | tion in its history, a given out following for directory purp population of Halifa suburbs is 70,000, I having 59,575 and 1 Woods ock N.B. every two seconds t hour day at the Na Paper Co. rafting mouth of the Nashw

series of rafting re established during t which are believed anything which has produced by a crev anywhere in Ameri twenty-firm men are actual rafting in a sixty-five men emp river. About twent the company's lumber rafted this season an up for the season i twenty-nine million: Sherbrooke, Que. immigrants have ,

clety. Most of the English and Scotch, from Norway, Swed land. Positions have ily available for all i Gowganda, Ont.-1 greater activity in this district and cermining development at any time since the camp many years age heing the Castle Treta producer with a sma

farms throughout th

ships since the first o

Eastern Townships

in operation. Projuc was at the sate of ab and ore developments

Brandon, Man .- Fi