Efficient Farming

FEEDING FOR WINTER EGG PRODUCTION.

methods are almost as important. If better feeding methods were adopted the winter egg production on the average farm could probably be increased by at least twenty per cent. Inasmuch as the profits on eggs produced during the winter months are far greater than on those laid at any other time of the year, this is a sub-

ect which merits serious attention.
Rations for winter feeding should be chosen with three factors in mindtheir nutritive value, palatability and variety. Laying hens in most parts of Canada are necessarily kept confined during the entire wilter; therefore care must be taken to supply e food elements (or substitutes) which the birds would otherwise procure for themselves outdoors.

Grains, such as wheat, corn, oats barley, both whole and ground, feed and when ground, enter into the composition of the dry mash.

Scratch Grain-Several excellent me-mixed scratch grain may be home-mixed scratch grain may be pounds when six months of age. The composed of equal parts by weight of roughage fed consists of clover hay wheat, cracked corn and oats. There and either roots or silage. is an old saying that a busy hen is a laying hen, and consequently scratch grains should always be fed in a deep first year as it is the period of most litter to induce exercise. This is an economical growth, after which he

rules as to the exact amount of scratch grain which should be fed. A very light feed may be given early in the morning and at noon, to keep the so that their crops will be full when

Dry Mash-Dry mash is an essen- vent loss and waste. Prepare for the birds should consume as much as existing pond or building a dam to possible. Commercial mash may be create a pond of sufficient area used, but a series of nine experiments supply the desired amount of ice. conducted upon the Dominion Experimental Farms recently have shown that for total production and profits, a home-mixed mash consisting of of clean water.
equal parts by weight of bran, shorts,

2. The cakes corn-meal and oat chop, with twenty per cent. of beef-meal. is more economical than any of the commercial mashes which have been tried.

This mash should be kept continually before the birds in a hopper, and a very small quantity moistened either without any filler, excepting finely with milk or table scraps, may be fed at noon. No more of this latter should given than the birds can eat in fifteen minutes.

among these is green feed, which apart from its nutritive value, serves to keep the birds in good health. This is the part of the ration of the average farm flock which is most often ered during the entire period when ice Either cabbages, dried clover leaves, sprouted oats or man gels may be used and the birds should get as much as they will eat.

Milk, Water, Etc.—Drink is also an

important factor in winter egg pro-

free of charge from the Poultry Division, Experimental Farm, Ottawa.

WINTERING YOUNG LIVESTOCK. Prices for feeding beef and dairy cattle are low, therefore young cattle must be raised economically. The re-sults obtained at the Dominion Experimental Station at Fredericton show that young cattle can be raised on a ration consisting largely of good

of concentrates. Senior yearling and two-year-old heifers not in milk may be fed a rable of consisting mostly of silage, roots leaves tied with dehorned steers fed leaves the Hospital for Sick Children.

On this year's service the Hospital control of the pens tal expended \$345,126 and finds and hay or straw with scarcely any concentrates, until two months before freshening. They should then be fed three to five pounds of concentrates per day in order to have them freshen in good condition. Heifers fed roughage will not be as fat as heifers fed a heavy grain allowance, but they will make satisfactory growth and constructed shed. They can be fed in a more cheaply readers or entitle itself to more of the sympathy of your readers or entitle itself to more of the sympathy of your readers or entitle itself to more of the sympathy of your readers or entitle itself to more of the sympathy of your readers or entitle itself to more of the sympathy of your readers or entitle itself to more of the sympathy of your readers or entitle itself to more of the sympathy of your readers or entitle itself to more of will develop the roomy digestive tracts less time. If given sufficient bedding wanted in a dairy cow, and costs will they will tramp down large quantities be considerably lower. In a twentyeight day feeding period in 1923 a
group of seven heifers fed clover hay
greater quantity is secured than when

tion in which half the hay was re-PRODUCTION.

While a good laying strain is the primary factor in winter egg production, suitable feeds and feeding methods are always and feeding methods a

replaced by roots.

It should be borne in mind, however, that the roughage must be of good quality, and the hay should be largely clover. Otherwise it is necessary to feed considerable concentrates they should be fed at least two pounds between seven and eight months. of concentrates per day. Otherwise The value of this record next sumthey may become stunted. The grain mer will be obvious. A pullet that mixture used at this Station consists starts to lay early and continues to of: bran, 2 parts; crushed oats, 1 lay until late in the fall is a most part; brewers' grain, 1 part, and oil desirable bird. One that starts pro-

As the most economical growth is As the most economical growth and senior calves should be fed a lible every time it will be possible to and senior calves should be fed a lible every time it will be possible to make use of the same colors in reverse make use of the same colors in reverse them well grown at an early age. Satisfactory results have been obtain are included in most poultry rations, ed at this Station from a grain mix-The whole grains are given as scratch ture consisting of: bran, 3 parts, crushed oats, 2 parts; oil cake, 1 part, of the dry mash.

Grain—Several excellent calves are fed a handful as soon as scratch grain mixtures they will eat it. This is gradually inare available, but a most satisfactory creased until they are being fed three

Briefly, the feeder should aim grow young stock rapidly during the added reason for making this part of should rely largely on good quality the ration as varied as possible. the ration as varied as possible.

It is impossible to give definite rather than an undue amount of fat-

A supply of ice on every farm birds busy, with a good feed at night where milk is produced would aid very much in raising the standard of the they go to roost, without an undue dairy product of the province. One amount of grain being left on the and a half tons per cow will keep the milk temperature at a point to pretial for winter egg production, and ice supply now, by clearing out the Success in ice storage depends upor

fulfilling the following conditions: 1. That the ice be cut from a body

2. The cakes should all be of the same size and not less than ten inches thick

3. The ice should be stored on cold, dry day. 4. The blocks of ice should be pack-

broken ice is such is needed. 5. Dry sawdust filling at leas twelve inches thick should be placed

between the ice and the walls of the Green Feed—While grains are esbuilding. A covering of equal thicksential, there are also other feeds ness should be used. The ice should
which must not be omitted. Foremost rest on a firm bed of sawdust where

6. Air circulation should be provid-

7. The ice should be kept well covis being used.

Landscape Improvement.

duction, and milk, skim-milk or buthouses remain bare and uninviting termilk, is practically essential. This year after year, due largely to the termilk, is practically essential. This year after year, due largely to the serves both as a drink and as a source of animal protein and should be kept ment in April and May, the busy seed-ontinually before the birds together with a supply of clean fresh water, lif no milk is available, beef scrap up to the time of freeze-up, just as should be given in a hopper, or some successfully as in the spring. Large y as in the spring. other animal food such as horse flesh trees can be moved with greater ease should be provided. In many districts, and certainty of success during early particularly in Quebec, community December than at any other time. To bone-cutters have been installed, by move large trees or shrubs trench means of which farmers can procure around and under in a manner that given over to consultation and minor chopped horseflesh for poultry feed- will leave a large ball of soil over the operations. On an average there ing, at nominal prices.

Grit, oyster shells, and charcoal in this solid.

That is where the dividend. hoppers, should also be available for the birds at all times.

frozen protecting soil with the tree attached may be pried or lifted out and Details of various experiments deal- transported to the new location, where ing with this subject are contained in a hole of sufficient size had been prethe Annual Reports of the Dominion pared before freeze-up to receive it. Which render it possible to mainPoultry Husbandman for 1922 and The planting of windbreak trees, for-1923, copies of which may be obtained est trees in the woodlot, or shrubs and cheeks become rosy and twisted ornamental trees about the home, limbs are made straight. should be considered as an autumn job by the man that cannot afford the time to do this work in the spring.

Greater Value of Dehorned Steers.

A striking substantiation of the knowledge of children's diseases, wisdom of dehorning steers is furnish- which they could not get except in roughage more economically than on a ration containing a heavy allowance minion Experimental Station at Charlottetown, P.E.I. In his report for make satisfactory growth and constructed shed. They can be fed in develop the roomy digestive tracts less time. If given sufficient bedding and corn silage made average daily steers are tied in stalls. Dehorn gains of 7.31 pounds per day. Ansteers are more contented, feed bett. other group of seven heifers fed a re-

POULTRY

A little time spent now in marking the pullets so as to indicate when each started laying will be a great help in culling the flock next summer. The only equipment needed is a catching crate and a supply of colored celluloid

time, and a record kept of what each color means in the way of egg pro-

duction. For example, a blue band may be placed on each pullet that begins to to make a satisfactory growing ration. a red band for each pullet that starts When helfers have been allowed to at between six and seven months, and fall away in flesh before being stabled a yellow band for those that start at

cake, 1 part, and it gives very satis- ducing early and quits early is a bet-

Orders, and Regulations No. 14" reissued by the Dept. of Agriculture at Ottawa, Canada. Four grades are provided both for cheese and butter, being designated "Special," 'First," "Second," and "Third" grade. The regulations provide that every cheese, and every package containing cheese or butter, shall be marked at the factory with the vat or churning number, which should run consecutively throughout the calendar year, com mencing with Number 1.

Hospital for Sick Children

67 COLLEGE ST., TORONTO

Dear Mr. Editor :-

your readers have probably had their appetite for statistics satiated during the past few months. Still they will, no doubt, want to know something of the work accomplished by the hospital to which they have so generously contributed in the past. They are shareholders in a Mission of Mercy. Their dividends The surroundings of many farm May I trespass upon your space to

population of a good-sized Ontario

That is where the dividends are earned-in the difference made in the lives of thousands of children through the voluntary contributions

If that were not dividend enough, one might try to estimate the enormous salvage of child-life in Ontario which has taken place since "Sick Kids" doctors and "Sick Kids" nurses have been going out through this province equipped with a some such highly specialized and pre-eminently efficient institution

readers or entitle itself to more of their support?

> Faithfully yours, I. E. ROBERTSON,

A MINUTE OF MERCY COSTS FIFTY CENTS

Chairman Appeal Committee

TRAINING OUR CHILDREN

Snowflakes sifted down softly. Now and then the silence was broken by the jingle of a passing sleigh-bell or protesting snort of a motor trying buck the drifts.

to buck the drifts.

In the living room Stancia was elbow deep in tissue paper. She was Two stages in a convert's experience we see the convert at the close of the doing up the parcels that were to be I. Jesus is a propher, 13-17, 26-34. The sent out of town. There came a bang II. Jesus is the many standard of the door, the stamping of feet, and of kings and lord of lords, 35-38.

Interpretatives of Interpret

referred to, a table is given of the results achieved from samples sent in by seven Farms and Stations in the West. Then varieties were subject to the test. As Marquis Ottawa 15 is the variety most popularly used, the per cent. dockage of that variety at each Farm or Station is here given: vision of Dan. 7: 13, 14. There the Brandon, 85.3; Indian Head, 55.3; Rosthern, 6.7; Scott, 14.9; Swift Current, 7.5; Lacombe, 7.9; Lethbridge, 8.9. The other varieties used were Early Triumph, Garnet Ottawa 652; Kitchener, Kota, Red Bobs, Red Fife Ottawa 17, Reward Ottawa 928, Ruby from all of these are detailed in the belief in himself as the divine Mestaron Brandon samples being generally high, Mr. Newman explains that this was due chiefly to the effects of the epidemic of wheat stem rust, which reduced not only the total yield but size of kernel materially in most cases. The variety Reward Ottawa 928 ranked relatively high at all the Stations as regards the percentage of good plump grain obtained. This variety and Kota, which is relatively resistant to rust, exhibited the same percentage at Brandon, namely 27.5, but Reward was much the superior in strength of straw.

Hens need bulky food. Clover or alfalfa hay cut in half-inch lengths help to make an ideal ration. The help to make an ideal ration. The learnest stray and total last for many years. It can be obtained in small individual strips ready to put on and costs about eight cents a tree according to the size of the piece. A protection of sufficient size to allow for growth without pinching the tree. Another without pinching the tree. This may also be done with young bushes where wrapping is imperented and stray of sufficient size to allow for growth without pinching the tree. This may also be done with young bushes where wrapping is imperented bulky food. Clover or alfalfa hay cut in half-inch lengths where of all true Christians. In Christian experience Christ is raised above all other powers and authorities. He is of all true Christians. In Christian experience Christ is raised above all other powers and authorities. He is of all true varieties of fruits and two of plants were accepted for recording at the recent meeting of the Plant Register of the piece. This may also be done with young bushes where wrapping is imperented by the proposed and authorities. He is of all true varieties of fruits and two of plants were accepted for recording at the recent meeting of the Canadian Help and the pr

The Sunday School Lesson

DECEMBER 7.

The Man Born Blind, John 9: 1-41. Golden Text-One thing I know, that, whereas I was blind, now I see,-John 9: 25.

Some and the second of the second is and the second is the second of the

Ottawa 17, Reward Ottawa 928, Ruby set up God's kingdom. And thus it either galvanied or paper form, will Ottawa 628, and Supreme. Results is to a second stage of faith, to a last for many years. It can be obfrom all of these are detailed in the belief in himself as the divine Mestationed in small individual strips ready

"The real Santa Claus" smiled thother, "sir right in here." She place has chosen to heal the man on the heart "It's the love you have for the heart." It's the love you have for the heart. "It's the love you have for the heart." It's the love you have for the heart. "It's the love you have for the heart." It's the love you have for the heart. "It's the love you have for the heart." It's the love you have for the heart. "It's the love you have for the heart." It's the love you have for the heart." It's the love you have for the heart. "It's the love you have for the heart." It's the love you have for the heart." It's the love you have for the heart. It's the love the heart. It's the love you have for the heart. It's the love the h Spring wheat were collected by the Gereal Division of the Dominion Experimental Farms from most of the branch Farms in 1923, and subjected to a uniform system of cleaning and to a uniform system of cleaning and grading, with a view to determining, from the standpoint of the seed grower, the percentage of small grains which have to be removed in order to produce a first class sample of seed. In the report of the Dominion Cerealist, Mr. L. H. Newman, for the year is to excommunicate the man from the ist of the Dominion Cerealist, Mr. L. H. Newman, for the year is to excommunicate the man from the ist of the Dominion Cerealist, Mr. L. H. Newman, for the year is the Messiah. The King cut into strips and tied closely around 1st, Mr. L. H. Newman, for the year The Second Stage of Faith: tough variety is satisfactory. This is referred to, a table is given of the II. JESUS B THE MESSIAH, THE KING cut into strips and tied closely around