FEED LAYING PULLETS

They Need Extra Food to Keep Laying.

Wheat and Corn Preferred by Poultry-Give Them Plenty of Green Feed-Beet Growers Can Make Good Syrup.

(Contributed by Ontario Department of Agriculture, Toronto.)

A pullet requires more feed than a hen, if it is intended that the pullet shall produce eggs. A bird to lay well must have a surplus of feed over and above body maintenance. The excess of feed above body maintenance goes either towards growth, fat, or egg production. Why the pullet requires more feed than the hen is because her growth is usually not complete when she be-

Poultry prefer wheat and corn to almost any other grain, but a lot depends on what they were fed when growing. Certain feeds they never have seen they do not relish, usually, when first fed. Hence one person's hens eat oats or barley much better than their neighbor's. The available grain feeds on the farm are corn, buckwheat, barley, and oats. Good wheat cannot be used. The non-milling wheat, such as that which is sprouted, or very small, may be used up to twenty-five per cent. of the ration.

Poultry feeds are divided into two classes: one, whole or cracked grains, commonly called scratch feed; and the other, ground grains, commonly called mash.

Scratch feeds are generally fed night and morning, and are scattered in straw in order to induce the birds to scratch or take exercise. A mixture of two or more kinds of grain usually gives better results than one single grain, largely because individual birds' appetites vary from day to day. A good mixture for the winter month might contain as much as fifty per cent. good corn, either whole or cracked; if corn could not be had, and the birds were accustomed to eating buckwheat, the buckwheat would answer nearly as well, or one could use twenty-five per cent. buckwheat and twenty-five per cent. corn. To the corn or buckwheat could be added twenty-five per cent. of barley, ten per cent. of wheat screenings, and fifteen per cent. of good oats. If one was obliged to do so, almost any of the grains could be fed alone with the exception of oats. There is too much hull or husk on oats to use entirely as a single feed.

At present for a mash feed we are using the standard hog feed. If the ground grains are to be fed moist or mixed with cooked household refuse then the mixture should be one that will mix to a crumbly state, but if fed dry in an open hopper the above is not so important.

The mash feed is the one where the animal meals are generally given. The amounts vary from ten to twenty per cent. of the mixture. The animal meals used are commonly high grade tankage and beef scrap. Where one has plenty of skimmilk or buttermilk the other animal feeds are unnecessary. Some use green cut bone; cooked refuse meat, such as livers, lights, beef heads, etc.

A very good mash can be made of one part each by measure of shorts, barley meal, and ground oats. Corn meal could be used in the place of the barley or with it. If one is short of green food or roots, it would be well to add one part of bran. Perhaps the simplest mash to feed from an open hopper is rolled or crushed oats. We have used this, when the birds had milk to drink, for a number of years with excellent results.

Laying hens require plenty of green feed. This green, succulent feed, is very important. Too much grain and no green food at times is very dangerous. Cabbage is one of the best green feeds. Roots are very good, but clover leaves should be within reach as well as the roots. Sprouted oats are used to a large extent on poultry farms. When the birds get accustomed to a green and succulent food it is generally wise to give them all they will eat. A pen of fifteen pullets will eat a fair-sized head of cabbage almost every day, or one hundred hens will eat a peck of sprouted oats day after day.

Keep your pen sweet and clean, but not drafty. Give the hens plenty to eat and some variety to the feeds. If you are regular in feeding and kind in your manner, the hens usually respond with very fair egg production.

Grit and shell should always be within easy access .- W. R. Graham, O. A. College, Guelph.

Early After-Harvest Cultivation. "A stitch in time saves nine." In the case of weeds prompt and thorough after-harvest cultivation prevents many thousands of weeds from developing seeds, and thus saves hours of tedious labor the succeeding season. Early after-harvest cultivation is one of the best ways to destroy annual and winter annual weeds, such as False Flax, Corn Cockle, Wild Buckwheat, Pigweed, Ball Mustard, Wormseed Mustard and Annual Sow Thistle. Plough shallow, not more than three or four inches deep, immediately after harvest, and harrow and cultivate frequently. By the shallow ploughing the weed seeds are kept near the surface and by the frequent stirring of the soil they are made to sprout, and having sprouted they are easily destroyed by further cultivation .-Dr. C. A. Zavitz, O. A. College,

One and a half oz, of formalin in 15 1/2 oz. of water fed at the rate of one teaspoonful per pint of milk is a good remedy in the case of diar-Thoea in calves.

Canadian Pacific Cars in Italy



(1) C. P. R. Observation Cars in Austria, 1913 (2) The same cars leaving Rome, August, 1920. the war these Observation Cars were picturesque districts of the Italian aroused intense admiration on the operated by the Canadian Pacific on perinsula. the Express trains of the Austrian

During the war the question was tourists visiting Tyrol. Owing to the United States proceeding to the Inoften raised—"What has happened internal conditions of the country, ternational Feminist Meeting in to the Canadian Pacific Observation tourists travel in Austria has na- Christiania. They left Naples on the Cars on the Austrian State Rail- turally disappeared for the time 21st August, and proceeded via Rome ways"? On the cessation of hotilities being, but Italy has been in different to Florence, Venice and Milan to it transpired that they had been used shape, and the Italian Government Geneva, where they arrived on the by the Austrian War Office as Red made an offer for these Observation 28th August. Cross Cars, and on the signing of cars which the Canadian Pacific acpeace they were handed back to the cepted, with the result that they are Canadian Pacific in fairly good shape. now being sperated by the Italian on the Italian State Railways created It will be remembered that before State Railways through the most a great amount of interest and

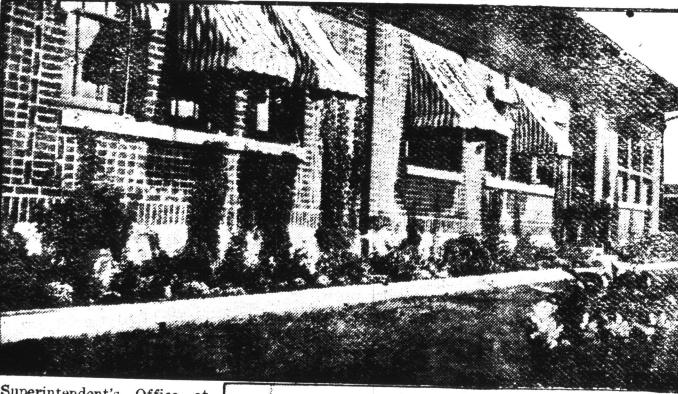
popular, particularly with American National Council of Women of the

Naturally the operation of those

part of the people and the Railway

They were used for the first time officials, whilst the delegates from States Railways from the Arlberg to for a party organized by the Moroli the United States declared that these Company of Rome for the transport- cars were as elegant and comfort-Trieste, where they were extremely ation in Italy of the delegates of the abie as they had ever travelled on

Blooming Railway Stations

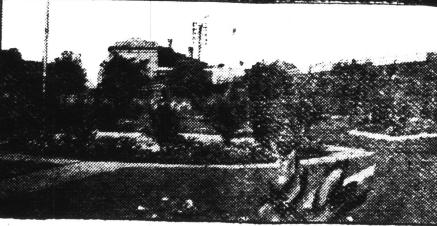


Superintendent's Office at Outremont, P.Q.

Flowers are amongst the assets of the Canadian Pacific Railway, Flowers bloom in C.P.R. gardens at most of the principal stations from one end of the country to the other. There are flower knots outside the Algonquin Hotel at St. Andrews, on the Atlantic coast, and one of the most beautful flower gardens in America blooms around the Empress Hotel in Victoria.

In the old days most of the pioneers were too busy opening up the untrodden ways to give much attention to the cultivation of flowers. Yet flower cultivation along the C.P.R. seems to have progressed with the commercial prosperity of the railway system itself, for it is now varities of flower seeds in his own plot and distributed them amongst his friends at some of the stationswith the object of starting flower gardening along the line. The start was auspiciously made, and now the C.P.R. has a floral department with headquarters at Windsor Street Station, Montreal. Mr. B. M. Winnegar

is the horticulturist and forester. Every year thousands of packets of flower seeds, bulbs, trees, shrubs, grass seed, and large quantities of fertilisers are distributed free of berberries and weigelia. charge to station agents, section fore-



Flower Beds at C. P. R. Station, Kenora, Ontario.

mer and autumn are sent out in every year for the best display of thirty-one years since one of the March. Full particulars for cultiva- flowers, and some of the products of tion are printed on each seed packet. gardens kept by the railway amaout in the fall.

men, caretakers of round houses and er beds is done by the employees of the spark that ignited a five of flowemployees living on the property of the company, many of whom have ers. company. The seeds that will become expert gardeners. On each

flower along the railway in the sum- division of the C.P.R. prizes are given Bulbs for spring flowering are sent teurs have won prizes at Canadian and United States floral exhibitions.

Seeds and plants of the best kind During the last thirty-one years are always provided. Standard flow- the encouraging influence of the er seed packets contain nasturtiums, C.P.R. flower growers has naterially alyssum, mignonette, sweet peas, phlox and kochia. Ferns and house societies all over the country. Many plants are sent to large stations. An of the railway officials are members endless variety of perennials are dis- of these societies. Flowers have imtributed, and amongst the varieties proved the appearance of the railway of trees supplied are maple, birch, stations, and inspired by the beauty beech, poplar and catalpa. Shrubs of the stations, residents of the towns include laurel leaf willow, sumac, have planted flowers that beautify their homes. A little flower flame In all cases the cultivation of flow- along the C.P.R. has often thrown

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