

hens have access to a small trough at the bottom of a hopper containing either bran or crushed wheat. They have also access at all times to grit, oyster shells and meat scraps from the packing house. The winter was an exceedingly severe one. When the weather became cold and the water was frozen up in the colony houses, we stopped supplying water and let the hens pick snow instead. These are the simple conditions under which these 240 hens have spent the winter at the Macdonald College. You will have come to the conclusion, to which others jumped, that we did not get many eggs, and that the hens suffered from frozen toes and other injuries.

At Macdonald College, as a result of industrial and agricultural education, the result of lessons in consequences, a result of trials to find out what to do and how to do it with the best results, we had 240 hens in these small colony houses scratching for their dry food, fed once a day and picking snow. As I have said, the thermometer ran down occasionally to 15° and 18° below zero Fahr. In the severest weather a cotton curtain was unrolled at night in front of the perches. The hens had no other protection beyond that and the one-board thick colony house. There was no sickness except in the case of two hens which the man in charge told me dropped off the perch from apoplexy, being too fat. These two were not laying any eggs. But in the case of the other hens, while everyone did not lay during the winter, we obtained between the 19th. November and the 31st. March over 10,000 eggs—to be exact, 10,122 eggs. In the coldest weather we got about six dozen eggs per day, and have been getting about 150 per day in the milder weather. Then, when we put the eggs from these hens in the incubators they tested quite high for fertility, the range being from 93 to 76 per cent fertile. The feed consumed by these 240 hens during the winter cost altogether \$117. These hens are the product of four years' selection, and in the four breeds kept there is not much difference in the results obtained. Twenty-five Rhode Island Reds laid on an average 51 eggs per hen; 25 Buff Orpingtons, 40 eggs per hen; 100 Plymouth Rocks,