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Does the Environment in a Refrigerator Affect the Water Content of Free-Ranged and Caged Chicken Eggs?

The experiment identified a problem: Does the environment of a refrigerator affect the water content of free-range eggs and caged chicken eggs? I believe the eggs will lose water content after a period of time in a refrigerator because of osmosis. Osmosis occurs because the water content inside an egg has a higher concentration and the water content inside a refrigerator is at a lower concentration. Free-ranged eggs may prevent less water passing through the egg membrane because of the free-ranged chicken's healthy life style which gives them the nutrients they need to make a strong, less permeable shell. To observe the water content loss of the eggs, I developed an experiment. I numbered each egg and measured their starting weight before being put into the refrigerator. I then placed the eggs into the refrigerator for 5 days and then measured the eggs to see if there was any change in the weight. Then I documented my results into a data chart. After the experiment, the results showed that my hypothesis was correct. All of the eggs did lose water content and the free-ranged eggs prevented less water from passing through.