

Bailey Palmer
Gene Seeker

In my experiment, I was trying to determine if there is a specific phenotype that has the genotype of the genetic abnormalities of TH (Tibial Hemimelia) and PHA (pulmonary Hypoplasia with Anasarca) in cattle. These abnormalities are both recessive. My purpose was to determine if the carriers of these abnormalities have specific traits that they portray. I created a list of criteria and each cow was scored on that criteria. The cow had to score a 90 or higher to be considered a phenotype. If the cow didn't meet the requirements, she was considered a non-phenotype. I then collected hair follicles and tested the DNA to determine if they were carriers for either abnormality. My hypothesis was that there is a phenotype that has the genotype of these genetic abnormalities.