

Deer Population Assessment Rubric

Analyze and interpret data to provide evidence for the effects of resource availability on organisms and populations of organisms in an ecosystem. [Clarification Statement: Emphasis is on cause and effect relationships between resources and growth of individual organisms and the numbers of organisms in ecosystems during periods of abundant and scarce resources.]		
Science and Engineering Practice Analyzing and Interpreting Data Students analyze various types of data in order to create valid interpretations or to assess claims/conclusions.	Disciplinary Core Idea LS2.A Interdependent Relationships in Ecosystems Organisms and populations of organisms are dependent on their environmental interactions both with other living things and with nonliving factors. Growth of organisms and population increases are limited by access to resources.	Crosscutting Concept Cause and Effect Students investigate and explain causal relationships in order to make tests and predictions.

4 Advanced	3 Proficient	2 Approaching Proficiency	1 Beginning Proficiency
I can: Analyze and interpret data from <i>multiple data sets</i> to provide evidence that changes in the availability of <i>multiple resources</i> in an ecosystem <u>affect</u> the organisms living in that ecosystem. Determine possible causal and correlational relationships between data and <i>the limitations of the data</i> to predict how changes in the availability of resources will <u>affect</u> organisms in an ecosystem.	I can: Analyze and interpret data from <i>multiple data sets</i> to provide evidence that changes in the availability of <i>multiple resources</i> in an ecosystem <u>affect</u> the organisms living in that ecosystem. <i>Determine possible causal and correlational relationships</i> between data and use the data to predict how changes in the availability of resources will <u>affect</u> organisms in an ecosystem.	I can: Analyze and interpret data from <i>a single data set</i> to provide evidence that changes in the availability of <i>one resource</i> in an ecosystem <u>affects</u> the organisms living in that ecosystem. <i>Predict</i> how changes in the availability of resources will <u>affect</u> organisms in an ecosystem.	I can: <i>Use general patterns</i> from a single data set to state that the survival of living things is <u>affected</u> by the environment.

