

## Hudson Data Jam Competition – Judging Rubric

**Screening questions: Does the project include...**

- 1) A written scientific report?       Yes    No  
 2) A creative component?             Yes    No

*If you answered “no” to either of these questions, please inform the contest administrators and do not continue scoring the project.*

<b>Written Report: 40 points</b>					
	Excels	Proficient	Below Standard	Well Below Standard	No Evidence
<b>1a. Title/Organization</b> a. The report includes: i. Title ii. Names of student author(s) iii. Grade(s) iv. School name.	-	0.5	-	-	0
<b>1b. Organization</b> a. Report is typed in a readable font, well organized, and free of spelling and grammatical errors.	-	0.5	-	-	0
<b>2. Introduction</b> (1 paragraph) a. Includes background information needed by someone unfamiliar with the science topic to understand the project. b. Scientific question and claim about the dataset are clearly stated.	4	3	2	1	0
<b>3. Dataset(s) Description</b> (1 paragraph) a. Dataset(s) are described accurately b. The written description is clear and includes: i. Who collected the data, if applicable (ex: Dave Strayer) ii. How they collected the data (methods) iii. Where they collected the data iv. When they collected the data v. Why they collected the data vi. Source of data (ex: HRECOS, Cary Institute) c. Variables are clearly identified accurately and explained	4	3	2	1	0
<b>4. Data Representation(s)</b> (at least one graph, table, etc.) a. Graph(s), table(s), or other type of summary includes: i. Clearly displayed data ii. Title iii. Axes or columns and rows clearly labeled with units	8	6	4	2	0

	Excels	Proficient	Below Standard	Well Below Standard	No Evidence
<p><b>5. Data Trends or Comparisons</b> (1-2 paragraphs)</p> <p>a. Trend(s) or comparison(s) are described accurately, using basic descriptive statistics (ex: average, range, standard deviation).  <i>i. Ex: The average annual blue crab population increased over time from 158 to 2,703 crabs/m<sup>2</sup>.</i></p> <p>b. Variability in data is described.  <i>i. Ex: Despite the overall increase in pearly mussel population from 1995-2010, the mussel population sharply dropped in 2003.</i></p>	8	6	4	2	0
<p><b>6. Data Interpretation (Explanation)</b> (1-3 paragraphs)</p> <p>a. Gives a reasonable explanation of <i>why</i> their trend happened.  b. Students support their explanation with evidence.  c. The explanation is consistent with current scientific ideas.</p>	8	6	4	2	0
<p><b>7. New Hypotheses &amp; Questions</b> (1 paragraph)</p> <p>a. Students pitch and describe at least two (2) new/future scientific research ideas.  b. The new ideas are based off of the trend seen in the “Data Interpretations (Explanation)” section.</p>	4	3	2	1	0
<p><b>8. Explanation of Creative Project</b> (2-5 sentences)</p> <p>a. The goal/purpose of the project is identified.  <i>i. Ex: The goal of the project is to inform people about the positive correlation between forest fragmentation and loss of biodiversity by having audience members watch a video.</i></p> <p>b. The audience of the project is identified.  <i>i. Ex: The game is geared for fifth and sixth graders who have already studied ecology in their science class.</i></p> <p>c. Any assumptions about the audience is clearly stated.  <i>Ex: It is assumed that the adults engaging with the game have an understanding of the vocabulary words deciduous forest, producers, primary consumers, and secondary consumers.</i></p>	-	1	0	0	0
<p><b>9. Reflection</b> (2-5 sentences)</p> <p>a. Student reflects on their personal Data Jam experience. <i>Full points awarded for a thoughtful and high quality explanation.</i></p> <p>b. <i>Optional</i> starter questions:  i. Did you enjoy a particular part of the process?  ii. What challenge(s) did you encounter?  iii. What helped you move beyond roadblocks?  iv. What advice would you give future Data Jammers?</p>	-	1	0	0	0
<p><b>10. Reference List</b></p> <p>a. Project clearly cites:  i. The dataset from the Cary website  ii. Two (2) scientifically sound, external sources</p>	-	1	0.5	0	0

<b>Creative Component: 32 points</b>					
	Excels	Proficient	Below Standard	Well Below Standard	No Evidence
<b>1. Creativity</b> a. The project is interesting, new, or inspired, and makes an original contribution to the field of environmental art and/or communication. <i>i. Please note: The art can be abstract - creativity and thinking outside of the box is encouraged! Just be sure to include a written or verbal explanation of how it is representing the story of the data.</i>	8	6	4	2	0
<b>2. Project Quality</b> a. Materials, media, and/or resources are skillfully and effectively used to create an appealing project. b. Project demonstrates effort.	8	6	4	2	0
<b>3. Data Incorporation</b> a. The trend(s) in the data are accurately and clearly portrayed. <i>i. <u>The story and trends</u> are described, rather than talking about a bunch of independent data points.</i> b. After experiencing the project, the audience will understand the trend(s) in the data.	8	6	4	2	0
<b>4. Effectiveness</b> a. The project meets its stated goal. b. The project was appropriately pitched for the stated audience. c. The design of the project clearly and naturally relates to the data/dataset.	8	6	4	2	0