

Measuring Water Resources: Unit 4—Example Assessment Rubric For Report

Scoring: example is based on a 100-point total

	Exemplary (9–10)	Good (8)	Basic (6–7)	Poor (4–5)	Nonperformance (<4)	Score
Content (70pts)						
Executive Summary	Concise but highly understandable overview of the entire report including statement of investigation question, methods/data, overview of findings, and resulting recommendation.		Contains most elements of the report in brief but less compelling or clearly written.		No summary or one that does not effectively overview the report.	
Introduction	Concise but thorough introduction to the significance of the analysis and justification for methods employed.		General overview of report purpose and methods.		Little or no introduction provided.	
Selection of resources to be used	Details of the reason for the selection of various sections of the Unit 4 organization are provided along with the resolution and expected outcome. Reasons for resources not used is also given.		Reasons are given for some of the resources selected with little or no comments on quality and expected resolution.		Data from resources are used but no discussion is provided as to why particular resources were used.	
Data	Presentation of the appropriate data sets from each of the resources/sections selected with comments on techniques used and assumptions required.		Collection of the appropriate data sets with limited explanations of documentation.		Data is only qualitative in the form of narratives about methods used and general impressions.	
Data Analysis and Discussion	Discussions of the analytical tools used to process and evaluate the data including comments on the quality of the data, a formal error analysis, comments about ranges and trends, and most robust and least reliable data.		Basic analysis of data with minimal error analysis and no comments about ranges or trends. Formal, but minimal discussion of the results and implementation of hazard assessment and mitigation.		Presentation of data only with no analysis.	
Conclusions	Comprehensive summary of cogent discussion points with implications.		Formal discussion of results with no inclusion of implications.		No formal statement, with minor comments scattered in discussion.	
Societal Recommendations	Thorough discussion of the results and implementation of water resource assessment and mitigation including feasibility.		Simple, organized comments on hazard minimization actions.			

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	Exemplary (5)	Good (4)	Basic (3)	Poor (2)	Nonperformance (1)	Score
Format (20 pts)						
Organization of Data	Data is organized and presented in a fashion that is logical and follows the format of the types of resources used in a systematic fashion and is also easy to examine.		Data is organized and presented in a fashion that is easy to examine the data.		Data from resources not organized in any fashion.	
Presentation of Data	Well-organized tables and plots of data with examples of all calculations. Clear use of legends and highlighting of key features.		Organized tables with simple plots.		Scattered and unorganized data sets with unedited plots of data.	
Organization of Report	Follows standard scientific journal format with clearly defined transitions. Includes proper and thorough citations.		Follows standard scientific journal article format. Includes citations.		No formal statement of problem or approach, nor any conclusions formally presented. Few or no citations.	
Grammar and Spelling	Well-crafted sentences and paragraphs. Excellent grammar and no spelling errors.		Complete sentences, minimum number of grammatical errors and spelling mistakes.		Incomplete sentences, numerous misspellings, and poor grammar.	