**Assessment of Land Use Impact on the Rainfall-Runoff Relationship**

Using three PowerPoint slides with notes or a Word document consisting of three figures with captions, illustrate each of the following:

1. How does land use change affect the water balance? Using your data, illustrate the impact land use and land cover have on the rainfall-runoff relationship. Annotate your illustration to make it as informative and effective as possible.

2. Where is land use changing in your local community or on campus? Illustrate using paired images from Google Earth a location in your community where land use change is occurring. This can be at any scale, from lot size to the subwatershed scale.

3. How are ecosystem services impacted by urbanization? Provide an example of at least one ecosystem service with an explanation for how it is impacted.

Each figure must be accompanied by notes or a figure caption explaining the illustration.

**Assessment Rubric**

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| --- | --- | --- | --- |
|  | 5 | 3 | 1 |
| Completeness | Three relevant figures are included, each with captions or notes. |  | Two or fewer relevant figures are included with captions or notes. |
| Creativity | Figures are skillfully and creatively developed and annotated, demonstrating an understanding of the question. | Figures are relevant, demonstrating an understanding of the question. | Figures present the basic information required, some irrelevant to the questions asked. |
| Content | A clear understanding of the content is conveyed by the figure and caption, indicating the author understands the concepts of the module. | Figures and captions are relevant and accurate. | Content in the figures is irrelevant or captions have incorrect information or convey a lack of understanding of concepts. |