|  |  |  |
| --- | --- | --- |
| Features | Input 2 - Point | Input 2 - Polygon |
| Input 1 - Point | Overlay intersection: Point | Overlay intersection: None |
| Spatial join intersects: Point | Spatial join intersects: None |  |
| Input 1 - Polygon | Overlay intersection: None | Overlay intersection: Polygon |
| Spatial join intersects: Point | Spatial join intersects: Polygon |  |

Usefulness:

1. Spatial overlay is beneficial for creating a new dataset where the geometries are the intersection of input layers, which is essential for understanding spatial relationships and for tasks requiring the intersection of spatial features.
2. Spatial join is useful for appending attributes from one layer to another based on their spatial relationship, which is crucial for analyses requiring data enrichment without altering the original geometries.

Top of Form