

Correction Notice for Development of the Beta Streamflow Duration Assessment Method for the Arid West

Correction for the analysis described in Mazor, R.D.; Topping, B.J.; Nadeau, T.-L.; Fritz, K.M.; Kelso, J.E.; Harrington, R.A.; Beck, W.S.; McCune, K.S.; Allen, A.O.; Leidy, R.; et al. Implementing an Operational Framework to Develop a Streamflow Duration Assessment Method: A Case Study from the Arid West United States. *Water* 2021, 13, 3310. <https://doi.org/10.3390/w13223310>.

Data analysis used to develop User Manual for a Beta Streamflow Duration Assessment Method for the Arid West of the United States EPA-800-K-21001

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The Beta SDAM for the Arid West published in March 2021 and the journal article describing the data analysis published in November 2021 contained errors in the calculation of *at least intermittent* and *needs more information* classifications. These errors have now been corrected in the web application through updates to the User Manual, see version 1.1 dated November 2023. The errors caused sites to be identified as *at least intermittent* that should have been identified as *perennial* or *intermittent* instead. The errors also caused sites to be identified as *needs more information* that should have been identified as *intermittent*, *ephemeral*, or *less than perennial* instead. In the dataset used to develop the beta SDAM for the Arid West, 90 sites were assessed and the classification results for 31 of them were affected by the errors (28 should have been *perennial*, *intermittent*, or *ephemeral*; 3 should have been *less than perennial*). Correction of the errors also eliminated *needs more information* as a classification outcome. No classifications of *perennial*, *intermittent*, or *ephemeral* by the version 1.0 beta method were affected by the errors.

The data analysis steps described in the November 2021 journal article accurately describe the process followed to develop the beta SDAMs for the Arid West; however, the results for *at least intermittent* and *needs more information* are over-represented, and the occurrences of *less than perennial* classification is wholly missing. Applying the corrected calculation of classifications, the beta method for the Arid West correctly classified 71% of site visits among three classes (*perennial* vs. *intermittent* vs. *ephemeral*), while 88% of site visits were classified correctly between two classes (*ephemeral* vs. *at least intermittent*).