# Title of sample document for authors preparing manuscripts for the Proceedings of Hydrology Days 2019

### Name of First Author

# Affiliation of first author

### Name of Second Author[[1]](#footnote-1)

# Affiliation of second author

**Abstract.** Trends in precipitation and streamflow at the annual, monthly and daily time scales for the last 50 years are analyzed for the semiarid .....

# 1. Introduction

An important element of current research in climate change and variability is the analysis of trends in hydroclimatic variables from instrumental records....

# 2. Methods

The trend test statistic *S* is defined as (Hirsch et al. 1993):

 (1)

where sgn(.) is the sign function.



**Figure 1.** Time series of mean annual streamflow *Q*.

# 4. Data Analysis at Annual Time Scale

Analyses at the daily time scale are most interesting for understanding the.

# 4.1. Distribution and trends in dry days

Streamflow analyses in ephemeral streams on a daily time scale are com ignored here) we have a series of length *n* (record length in years) of independent observations of daily streamflow, *xjd*, *d*=1, 365 and *j*=1, *n*. The probability of zero flow was estimated for every day *d* as:

 (2)

**4.1.2 Trends in precipitation and streamflow characteristics.** Analyses of recent trends in precipitation and streamflow in the Rio Puerco in this paper reveal several interesting features of this semiarid basin. At...

**Table 1.** Rio Puerco USGS streamflow gaging station basic information.

|  |  |  |  |
| --- | --- | --- | --- |
| Station name | Station number\* | Gage datum [m] | Area\*\* [km2] |
| Rio Puerco  Arroyo Chico  Rio San Jose | 08 **3340** 00  08 **3405** 00  08 **3435** 00 | 1813.3  1804.7  1910.9 | 1088  3600  3030 |

\* Only numbers in bold are used in this study for station identification

\*\* From USGS Water Resources Data and USGS NWIS database



**Figure 2.** Time series of mean annual streamflow *Q*.

**Appendix: Title.**

The general equations for....

# Acknowledgements. This research was supported by the U.S. Geological Survey Grant .....

# References

Antevs, E., 1952: Arroyo cutting and filling. *J. Geology*, **60**, 375-385.

Antevs, E., 1954: Climate of New Mexico during the last glacio-pluvial. *J. Geology*, **62**, 182-191.

Bailey, R. W., 1935: Epicycles of erosion in the valleys of the Colorado Plateau province. *J. Geology*, **43**, 337-355.

Balling, R. C., and S. G. Wells, 1990: Historical rainfall patterns and arroyo activity within the Zuni River drainage basin, New Mexico. *Ann. Assoc. Amer. Geog.*, **80**(4), 603-617.

1. # Water Resources, Hydrologic and Environmental Sciences Division

   # Civil Engineering Department

   Colorado State University

   Fort Collins, CO 80523-1372

   Tel: (970) 491-7621

   e-mail: [ramirez@engr.colostate.edu](mailto:ramirez@engr.colostate.edu) [↑](#footnote-ref-1)