

Reference

12/01/19

New paleoflood hydrology research paper: 700-year record of floods on Lower Green River in Stillwater Canyon

[Paleoflood Hydrology on the lower Green River, Upper Colorado River Basin, USA: An example of a naturalist approach to flood-risk analysis](#). 2019, Liu et al.

###

SUMMARY OF FINDINGS

Approach: analysis of physical evidence from past flood phenomena

Physical evidence: slackwater deposits (sediment) and paleostage indicators (perched driftwood is an example)

Year of obtaining samples: 2012

Dating techniques: Accelerator Mass Spectrometry, radiocarbon, optically stimulated luminescence

Number of sites: 6

Location of sites: Stillwater Canyon; lower Green River, Utah. Beginning 21 miles above confluence with the Colorado River, in Canyonlands National Park.

Basin: Colorado River in southwest USA

Time-frame: the last seven centuries

Total number of floods: 27

Magnitude (range in cubic meters per second): 500 to 7,500 **Magnitude (range in cubic feet per second):** 17,657 to 264,860

Highest peak from gage record: 68,122 cubic feet per second

Number of floods greater than gage record: 14