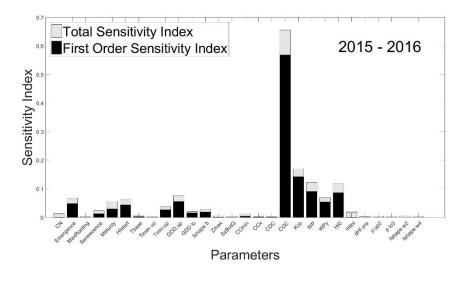
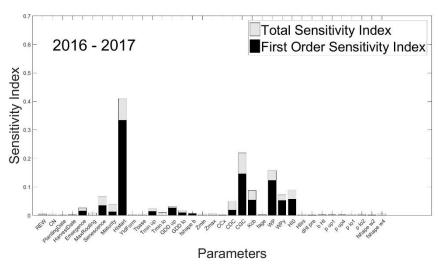


Figure S1. Standardised Precipitation-Evapotranspiration Index 3-month cumulative values trends for the Maccarese and Xiaotangshan sites for the periods used in the study (downloaded from https://spei.csic.es/index.html). Dotted lines show thresholds for Extremely Wet SPEI > 1.5 (blue) or Severely Dry SPEI < -1.5 (red) conditions.





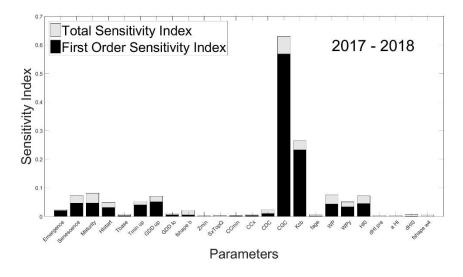


Figure S2. First-order and total-order EFAST SI for different years for Xiaotansghan. Only the parameters with a total sensitivity index higher than the sensitivity index of the dummy parameter are shown. The details on the parameters can be found in Table 1.

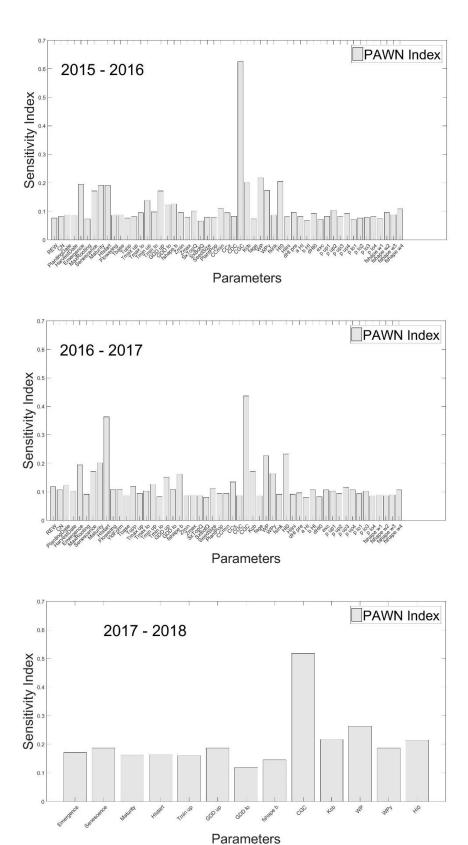


Figure S3. PAWN sensitivity index T_i for different years for Xiaotansghan. Only the parameters with a total sensitivity index higher than the sensitivity index of the dummy parameter are shown. The details on the parameters can be found in Table 1.