

Flood Vulnerability Map of the Bagmati River Basin, Nepal:
A Comparative approach of the Analytical Hierarchy Process and
Frequency Ratio Model

Supplementary Materials

Table S1: Experts background and working experience

SN	Experts	Work experience (years)
1	Researcher and Professor (Water resource, and GIS)	32
2	Researcher (Geologist)	10
3	Researcher – (Urban planning)	15
4	Researcher-Precipitation and temperature extremes	11
5	Researcher and Professor (Water resource)	14
6	Researcher and Associate professor (Geography)	20
7	Municipal engineer	10

Table S2: Summary of results from experts on the influence of the factor on flood vulnerability

Factors	Influence of the factor on flood vulnerability								
	1	2	3	4	5	6	7	8	9
Elev				I		I	I	II	II
Slope		I		I	I	I	I	II	
FA	I			I	I	I	II	I	
PPT					I	I	I	III	I
DD		I		I		I	I	II	I
DR			I	I	II	I	I	I	

TWI				I	I	I	I	II	I
LULC		I	I		I	II	I	I	
Soil		I		I	I	I	II	I	
NDVI	I	I	I	II	I		I		

Elev-elevation, FA-Flow accumulation, PPT-precipitation, DD-drainage density, DR-distance from river, TWI-topographic wetness index, LULC-land use and land cover, and NDVI-Normalized Difference Vegetation Index

Note: The roman number in the table indicates the selected times of score from 1 to 9 by the experts.