

Supplemental data for

“Rainfall Dependence of Springs in the Midwestern Himalayan Hills of Uttarakhand” by Avinash Agarwal, N.K. Bhatnaga, R.K. Nema, and Nitin K. Agrawal, published in *Mountain Research and Development* 32(4), 2012. (See <http://www.bioone.org/toc/mred/32/4>)

TABLE S1. Duration of data collection, elevation, and time lags between rainfall and spring flow for the springs in Chandrabhaga watershed.

Spring number ¹⁾	Data collection		Years	Elevation (m)	Lag & correlation		Lag & correlation		Remarks
	Start	End			Days	Corr. r ²	Months	Corr. r ²	
1	1 Jul 1999	30 Jun 2010	11	1432	13	.09 to .31	1	.28 to .32	Continuous flow
2	1 Jul 1999	30 Jun 2010	11	1413	13	.07 to .10	1	.14 to .23	Continuous flow
3	1 Jul 1999	30 Jun 2010	11	1387	27	.06 to .13	1	.10 to .37	Continuous flow
4A	1 Jul 1999	30 Jun 2010	11	1169	13	.13 to .23	1	.39 to .57	Continuous flow
4B	1 Jul 1999	30 Jun 2010	11	1220	25	.13 to .21	1	.37 to .51	Continuous flow
5	1 Jul 1999	30 Jun 2010	11	1415	27	.12 to .20	1	.32 to .52	Flow interrupted once
6	1 Jul 1999	30 Jun 2010	11	1460	29	.03 to .09	1	.07 to .26	Continuous flow
7	1 Jul 1999	30 Jun 2010	11	1569	28	.06 to .18	1	.21 to .47	Flow interrupted once
8	1 Jul 1999	30 Jun 2010	11	1543	30	.09 to .19	1	.24 to .49	Flow interrupted twice
9	1 Jul 1999	30 Jun 2010	11	1431	29	.08 to .16	1	.20 to .45	Continuous flow
10A	1 Jul 1999	30 Jun 2010	11	1608	17	.10 to .21	1	.31 to .53	Continuous flow
11	1 Jul 1999	30 Jun 2010	11	1506	21	.11 to .21	1	.32 to .52	Flow interrupted 7 times (road construction in 2007–2008)
12	1 Jul 2000	30 Jun 2002	2	1558	30	.10 to .25	NA	NA	Dead (construction and development)
13	1 Jul 2003	30 Jun 2010	7	1115	28	.14 to .23	1	.33 to .57	Continuous flow
14	1 Jul 2000	30 Jun 2006	6	1681	16	.11 to .20	1	.34 to .41	Dead (construction and development)
15	1 Jul 2000	30 Jun 2010	10	1742	14	.11 to .21	1	.33 to .51	Flow interrupted once
16	1 Jul 2000	30 Jun 2010	10	1661	14	.12 to .16	1	.31 to .40	Flow interrupted once
17	1 Jul 2005	30 Jun 2010	5	1694	11	.17 to .23	1	.40 to .46	Flow interrupted once
18	1 Jul 2003	30 Jun 2009	6	1779	9	.14 to .21	1	.40 to .41	Frequently dried up (construction and development)
19	1 Jul 2005	30 Jun 2007	2	1601	NA	NA	NA	NA	Frequently dried up (construction and development)
20	1 Jul 2005	30 Jun 2006	1	1634	NA	NA	NA	NA	Frequently dried up (construction and development)

¹⁾ Numbering of springs corresponds to the numbering in Table 1 in the article.
NA = not applicable

TABLE S2. Duration of data collection, elevation, and time lags between rainfall and spring flow for the springs in Danda watershed.

Spring number ¹⁾	Data collection		Years	Elevation (m)	Lag & correlation		Lag & correlation		Remarks
	Start	End			Days	Corr. r ²	Months	Corr. r ²	
1	1 Jul 1999	30 Jun 2010	11	1239	22	.02 to .13	2	.19 to .34	Continuous flow
2	1 Jul 1999	30 Jun 2010	11	1285	12	.07 to .11	2	.20 to .34	Continuous flow
3	1 Jul 1999	30 Jun 2010	11	1259	3	.11 to .16	1	.32 to .33	Continuous flow
4A	1 Jul 1999	30 Jun 2010	11	1232	24	.10 to .18	1	.38 to .52	Continuous flow
4B	1 Apr 2005	30 Jun 2010	5	1239	22	.10 to .17	0	.45 to .45	Continuous flow
5	1 Jan 2003	30 Jun 2010	7	1227	9	.05 to .12	3	.17 to .35	Continuous flow
6	1 Jul 1999	30 Jun 2010	11	1184	12	.09 to .20	2	.44 to .54	Flow interrupted 4 times
7	1 Jul 1999	30 Jun 2010	10	1113	10	.06 to .22	1	.42 to .46	Continuous flow
8	1 Jan 2003	30 Jun 2010	7	1148	6	.09 to .22	0	.52 to .52	Flow interrupted once
9	1 Jul 1999	30 Jun 2010	11	1204	18	.08 to .20	1	.42 to .51	Flow interrupted once
10	1 Jul 1999	25 Jun 2004	3	1144	25	.08 to .19	1	.21 to .43	Dead (construction and development)
11	1 Jun 2000	30 Jun 2010	10	932	29	.01 to .08	1	.05 to .23	Flow interrupted twice
13	1 Nov 1999	30 Jun 2010	10	1191	5	.10 to .13	1	.20 to .30	Flow interrupted 3 times
15	1 Nov 1999	30 Jun 2010	10	1148	1	.10 to .14	0	.18 to .18	Continuous flow
16	1 Jun 2002	30 Jun 2010	8	1112	17	.06 to .08	0	.21 to .21	Flow interrupted once
17	1 Nov 1999	20 Mar 2008	8	1112	25	.06 to .15	1	.22 to .53	Continuous flow
20	1 Nov 1999	30 Jun 2010	10	1256	25	.12 to .13	1	.32 to .34	Continuous flow
27	1 Jan 2001	13 Feb 2006	4	1267	28	.09 to .15	1	.21 to .39	Continuous flow
28	1 Jul 2001	30 Jun 2010	9	1267	25	.13 to .20	1	.44 to .64	Flow interrupted twice
29	1 Oct 2005	30 Jun 2010	4	930	23	.03 to .19	2	.20 to .50	Flow interrupted once
30	1 Oct 2005	30 Jun 2010	4	NA	15	.07 to .16	2	.28 to .65	Flow interrupted 4 times

¹⁾ Numbering of springs corresponds to the numbering in Table 2 in the article.

NA = not applicable