

VII. APPENDIX CHAPTER IV

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Table 4.3 Climate data.

Abbreviations:

ann. = annual; temp. = temperature [°C]; prec. = precipitation [mm]; altitude in [m]; Δ = difference.Climate data according to *Climate data for cities worldwide*: online 11.5.2016. Climate data according to <http://de.climate-data.org/>

	Province / district	Place	Altitude	Temp / ann. average	Ann. prec.	Min prec.	Max prec.	Δ prec. min/max	Min temp.	Max temp.	Δ temp. min/max
INDIA	Ladakh	Leh	3520	5.2	103	Oct: 3	August: 16	13	Jan: -8.6	July: 17.4	26
		Phyang	3510	4.7	105	Oct: 3	August: 15	12	Jan: -9.4	July: 17	26.4
		Thikse	3250	6.8	150	Jun: 4	March: 22	18	Jan: -7.1	July: 18.7	25.8
	Kargil	Kargil	2700	8.6	318	Nov: 6	March: 82	76	Jan: -8.8	July: 23.3	32.1
	Srinagar	Srinagar	1590	13.6	693	Nov: 24	March: 110	86	Jan: 1.5	July: 24.6	23.1
	Lahaul	Keylong	3100	7.6	824	Nov: 23	March: 136	113	Jan: -3.5	July: 16	19.5
		Gondhla	3170	7.7	858	Nov: 24	March: 138	114	Jan: -3.3	July: 15.9	19.2
		Udaipur	2650	9.4	1057	Nov: 26	March: 148	122	Jan: -1.8	July: 17.3	19.1
	Spiti	Kaza	3660	5.1	668	Nov: 16	March: 90	74	Jan: -5.6	July: 14.1	19.7
	Upper Kinnaur	Nako	3630	4.8	651	Nov: 16	Jan: 83	67	Jan: -5.6	July: 13.9	19.5
	Middle Kinnaur	Spillo	2400	12.2	710	Nov: 19	Jan: 108	89	Jan: 2.9	June: 19.3	16.4
		Rekong Peo	2420	12.8	797	Nov: 19	Jan: 108	89	Jan: 3.7	June: 19.8	16.1
		Kalpa	2760	13.2	867	Nov: 19	Mar: 109	90	Jan: 4.2	June: 20.2	16
	Shimla	Rampur	960	19.9	1098	Nov: 18	July: 185	167	Jan: 10.6	June: 27.6	17
	Kullu	Manali	2000	15.1	1972	Nov: 30	July: 409	379	Jan: 5.5	June: 22.6	17.1
	Chamba	Purthi	2460	11.8	1299	Nov: 26	July: 183	157	Jan: 0.5	June: 19.8	19.3
		Bharmour	2170	15.1	2078	Nov: 26	July: 480	454	Jan: 5.4	June: 22.7	17.3
		Chamba	950	20.7	2213	Nov: 21	July: 609	588	Jan: 10.6	June: 29.3	18.7
PAKISTAN	Gilgit-Baltistan	Khaplu	2494	9.2	150	Nov: 3	March: 35	32	Jan: -7.2	July: 23.4	30.6
		Baltit	2430	9.2	128	Nov: 2	May: 28	26	Jan: -9	July: 22	27
		Keris	2310	9.4	176	Nov: 3	March: 36	33	Jan: -6.5	July: 23.2	29.7
		Skardu Town	2250	10.2	204	Nov: 4	May: 35	31	Jan: -4.6	July: 23.3	27.9
		Gilgit	1470	16.5	154	Nov: 2	May: 32	30	Jan: -3.8	July: 28.3	24.5
	Khyber Pakhtunkhwa	Sazin	1000	16.7	419	Nov: 8	April: 60	52	Jan: 4.7	July: 27.2	22.5
		Kalam	2000	13.4	639	Nov: 15	April: 93	78	Jan: 1.5	July: 24.1	22.6
TIBET	Central Tibet	Lhasa	3660	7.9	438	Jan: 0	Aug: 132	132	Jan: -1.8	June: 15.9	17.7
	West Tibet	Purang	3890	4.4	897	Nov: 9	Aug: 194	185	Jan: -3.5	July: 11.3	14.8
IRAN	Isfahan	Abyaneh	2220	11.9	118	Aug: 0	Jan: 22	22	Jan: -2.5	July: 25.1	27.6
BULGARIA	Haskovo	Mandrizha	70	13.5	586	Aug: 19	Dec: 77	58	Jan: 3.2	July: 23.8	20.6
TURKEY	Karabük	Safranbolu	480	12.8	597	Aug: 33	Dec: 70	37	Jan: 2.5	July: 22.4	19.9

Table 4.4 Grain size classes.

Sample	Place	Gravel	Sand	Silt	Clay	Median [μm]
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Chamba

8506	Purthi	11.6	16.0	51.9	20.5	17
8510	Purthi	34.7	11.8	45.5	8.0	47
8528	Purthi	40.6	20.1	35.9	3.4	700

Kinnaur

8467	Ribba	1.3	28.6	53.1	17.0	16
8493	Ribba	0.1	8.8	55.4	35.7	5
8492	Chulling	11.5	28.7	44.2	15.6	30
8511	Thangi	18.1	20.8	51.5	9.6	34
8518	Thangi	15.3	25.3	40.8	18.6	12
8529	Thangi	17.9	31.9	39.0	11.2	65
8513	Moorang	2.2	27.2	56.5	14.1	12

Spiti

6041	Tabo	1.1	8.3	50.8	39.8	3
6053	Tabo	27.5	33.8	24.5	14.2	260
6048	Tabo	26.4	22.3	33.8	17.5	65
6049	Kungri	18.4	39.0	23.4	19.2	110
6050	Dhankar	27.5	29.1	30.0	13.4	150
8507	Rangrik	12.1	22.2	46.0	19.7	25
8515	Rangrik	10.1	28.2	43.7	18.0	35
8512	Lalung	20.8	12.9	50.4	15.9	17
8527	Hikkim	19.5	22.8	37.8	19.9	30
8530	Hikkim	5.7	39.1	32.1	23.1	30

Lahaul

8480	Keylong	31.2	40.6	23.8	4.4	260
6057	Keylong	0.4	17.1	69.0	13.5	30
8478	Tingrat	1.2	38.4	46.6	13.8	28

Kashmir

11755	Srinagar	0.3	2.0	62,8	34,9	4.8
11916	Srinagar	0.9	2.4	68	28,7	5.5
11757	Naranag	10.0	14.2	38,2	37,6	4.4

Table 4.5 Results of bulk mineral analysis.

Sample	14Å	Mica	Amph	7Å	Phy	Quar	Goeth	K-fsp	Plagio	Calc	Dol	Haem	Gyps	Pyr
Chamba														
8506	.	*	---	*	.	*	---	.	*	---	---	.	---	---
8510	*	*	---	**	.	*	---	.	*	---	---	---	---	---
8528	*	*	---	**	.	*	---	.	*	---	---	---	---	---
Kinnaur														
8467	*	*	---	.	---	*	---	*	**	---	---	---	---	---
8493	.	.	---	.	.	*	---	.	.	---	---	---	---	---
8492	.	*	---	*	.	*	---	.	*	---	---	---	---	---
8511	.	*	---	*	.	*	---	.	*	---	---	.	---	---
8518	.	*	---	*	.	*	---	.	*	.	---		---	---
8529	.	*	---	*	.	*	---	.	*	---	---	.	---	---
8513	.	*	---	*	.	*	---	.	*	*	.		---	---
Spiti														
6041	.	*	---	.	.	*	.	.	.	.	.	.	---	.
6053	.	.	.	.	.	*	.	.	.	*	.	.	---	.
6048	.	.	.	.	.	.	---	.	.	**	.	---	.	---
6049	.	.	.	.	.	*	.	.	.	*	.	---	.	---
6050	.	.	.	.	.	*	.	.	.	*	.	---	.	---
8507	.	.	---	.	.	*	---	.	.	*	.	---	---	.
8515	---	.	---	.	.	*	---	.	.	*	---	---	---	---
8512	---	.	---	.	.	.	---	.	.	*	*	---	---	---
8527	---	.	---	.	.	.	.	---	.	**	---	.	---	.
8530	---	.	---	.	.	*	.	.	.	*	---	.	---	---
Lahaul														
8480	.	*	---	*	.	*	---	.	**	.	.	---	---	---
6057	---	*	---	.	.	*	---	.	*	.	.		---	---
8478	.	*	---	.	---	*	---	.	*	---	---	---	---	---
Kashmir														
11755	.	*	.	.	.	*	---	.	.	*	.	.	---	---
11916	.	.	.	.	.	*	---	.	.	*	.	.	---	---
11757	.	*	---	.	.	*	---	.	.	*	---	---	---	---

Table 4.6 Results of clay mineral analysis.

Sample	Smectite	Vermiculite 14Å/18Å		Illite	Kaolinite	Chlorite	Mixed layer
Chamba							
8506	.	*	---	**	.	.	.
8510	---	.	---	**	.	*	.
8528	---	---	---	**	---	**	---
Kinnaur							
8467	---	---	---	***	---	*	---
8493	---	**	---	*	.	---	.
8492	.	---	---	**	.	*	.
8511	---	---	---	***	---	*	.
8518	---	---	---	***	.	.	---
8529	---	---	---	**	.	*	.
8513	---	---	---	**	.	*	.
Spiti							
6041	---	---	---	**	*	*	---
6053	---	---	---	**	*	*	---
6048	.	---	---	**	.	*	---
6049	---	---	---	**	*	*	---
6050	---	---	---	**	.	**	---
8507	.	---	---	**	*	*	.
8515	.	---	---	**	*	*	.
8512	---	---	---	**	.	*	---
8527	---	---	---	*	**	---	.
8530	.	---	---	*	**	.	*
Lahaul							
8480	---	---	---	**	.	*	.
6057	---	---	---	**	*	*	.
8478	---	---	.	***	---	*	---
Kashmir							
11755	*	---	---	**	*	*	.
11916	.	---	---	**	*	*	.
11757	---	---	---	**	*	.	*