

CLIMATE

1.1 Temperature at selected centres

(Centigrade)

Year	Station	Quetta (Samurgali)	Zhob(Fort- (Sandeman)	Khuz- dar	Panj- goor	Dalban- din	Rawalpindi /Islamabad	Pesha- war	Jhelum	Lahore	Sargoha
	Height in metres above sea level	1600	1405	1231	980	848	507	359	232	213	187

MEAN OF MAXIMUM

1983	24.0	25.0	27.8	29.3	31.4	27.9	28.5	29.0	29.7	31.1
1984	25.8	27.0	28.8	29.6	31.7	29.1	30.7	30.6	31.1	32.0
1985	25.3	26.5	29.3	30.1	29.3	29.8	30.5	31.4	31.7	32.7
1986	24.0	25.4	28.5	29.3	31.1	28.1	29.5	29.6	30.7	30.8
1987	25.7	27.1	29.9	30.5	32.1	29.7	30.5	31.0	31.9	32.2
1988	26.0	26.7	29.6	30.4	32.2	29.5	30.4	31.4	31.9	31.9
1989	24.0	25.1	27.9	29.5	31.3	27.9	30.1	30.7	31.1	31.2
1990	25.1	--	24.8	28.4	32.8	28.3	29.9	30.6	30.6	31.2
1991	24.1	25.6	29.0	29.6	31.0	26.7	29.0	29.9	30.7	30.3
1992	24.1	25.6	29.1	30.0	31.0	21.3	29.0	29.5	30.6	30.3
1993	25.1	28.1	29.8	30.5	31.9	29.1	30.5	31.2	31.6	31.9
1994	24.7	27.1	28.2	29.9	31.8	28.2	29.4	30.5	30.9	...
1995	24.4	27.0	28.0	29.5	31.3	28.3	29.9	30.0	30.0	30.2
1996	24.8	28.2	29.0	29.7	30.6	28.6	30.4	30.1	30.4	31.0

MEAN OF MINIMUM

1983	7.1	12.0	14.4	15.0	13.9	13.5	15.1	15.7	17.0	16.4
1984	8.1	13.3	14.5	14.8	13.8	13.5	15.5	16.3	18.0	18.0
1985	7.6	12.4	14.7	14.0	11.2	14.5	16.3	16.8	18.3	17.1
1986	7.4	11.2	14.2	14.0	14.1	12.3	13.8	16.1	17.7	17.6
1987	7.7	11.9	15.1	14.5	14.4	14.2	14.4	16.5	18.4	17.6
1988	9.1	13.0	15.5	15.0	15.2	14.9	16.7	17.3	18.9	18.2
1989	8.1	9.2	14.4	13.5	13.9	14.2	16.0	16.2	18.2	16.9
1990	8.9	--	15.7	14.4	15.1	15.1	16.5	17.2	18.4	18.0
1991	8.6	12.6	15.5	14.7	14.3	13.5	15.5	16.4	17.7	17.0
1992	8.2	11.2	14.5	15.3	12.9	12.6	15.5	16.6	18.5	17.3
1993	8.1	13.6	15.6	15.6	13.9	14.3	15.7	16.5	18.8	17.6
1994	8.7	13.9	14.8	15.6	14.7	14.7	15.5	17.1	18.9	...
1995	8.1	11.5	12.7	12.1	13.0	13.9	14.0	16.6	18.5	15.8
1996	7.4	10.6	13.8	14.7	11.3	14.2	15.7	16.7	18.5	17.5

Contd.

1.1 Temperature at selected centres

(Centigrade)

Year	Station	Faisalabad	D.I.Khan	Multan	Behawalpur	Jacobabad	Nawabshah	Hyderabad	Karachi (Airport)
Height in metres above sea level		183	173	122	116	55	37	40	21

MEAN OF MAXIMUM

1983	9.7	30.7	31.8	31.8	32.6	35.0	34.3	31.6
1984	30.9	31.9	32.9	32.4	34.3	35.2	33.9	31.6
1985	31.4	33.1	33.3	32.9	34.3	35.8	34.5	32.1
1986	30.3	31.0	32.1	31.9	33.5	36.5	34.5	31.7
1987	31.5	32.2	33.1	33.1	34.7	36.0	35.9	32.6
1988	31.2	32.5	33.4	33.9	35.0	34.8	35.6	32.9
1989	27.2	31.2	32.1	32.1	33.6	35.1	33.4	32.0
1990	32.1	31.5	32.6	32.7	34.4	35.2	33.4	31.8
1991	29.4	31.0	32.0	32.7	34.9	36.5	33.7	32.1
1992	26.9	30.5	31.6	32.1	34.0	35.7	33.4	31.8
1993	31.5	32.1	32.9	33.7	35.1	36.1	34.5	33.1
1994	31.3	32.2	32.3	32.7	33.8	35.0	33.5	32.4
1995	31.0	31.1	32.3	33.3	33.7	35.0	33.8	32.7
1996	30.1	31.8	32.6	31.1	34.1	35.6	16.7	32.1

MEAN OF MINIMUM

1983	16.1	15.9	17.3	17.5	20.0	17.7	21.0	20.2
1984	16.4	16.0	17.5	17.7	18.9	16.9	19.2	19.6
1985	17.0	14.7	18.2	18.0	19.5	17.4	20.7	20.0
1986	16.1	15.8	17.6	17.5	19.3	18.2	20.9	19.8
1987	17.0	17.2	18.3	18.4	19.5	17.8	21.6	20.4
1988	16.7	17.8	18.9	19.4	20.5	17.6	22.4	21.4
1989	13.1	16.7	17.5	17.7	18.9	17.1	20.6	20.2
1990	18.5	18.0	19.0	18.7	19.9	18.8	21.2	19.9
1991	15.8	17.4	18.7	18.2	19.4	18.9	20.8	20.2
1992	14.8	17.1	18.1	18.1	20.0	18.2	20.9	20.8
1993	17.2	17.2	18.5	18.0	20.0	18.5	21.4	21.4
1994	17.3	18.1	18.3	17.6	20.4	18.2	20.8	19.9
1995	16.9	17.0	17.9	17.2	20.5	18.1	21.0	20.9
1996	16.8	16.6	17.8	15.5	19.5	17.5	21.3	21.0

Source: Pakistan Meteorological Department.

1.2 Rainfall at selected centres

(Millimetre)											
Year	Station	Quetta (Samungli)	Zhob(Fort- Sandemon)	Khuz- dar	Panj- goor	Dalban- din	Rawalpindi /Islamabad	Pesha- war	Jhelum	Laho- re	Sargo- dha
	Height in metres above sea level	1600	1405	1231	980	848	507	359	232	213	187
1983		596	365	337	124	113	1714	710	1089	909	568
1984		115	592	288	93	429	1143	524	845	702	435
1985		257	164	189	79	26	1124	341	618	746	309
1986		244	179	239	104	43	937	416	932	612	326
1987		156	264	218	80	106	859	343	653	490	305
1988		259	287	342	147	34	1259	367	995	815	398
1989		243	320	396	23	58	1043	252	668	616	547
1990		313	460	206	92	159	1530	454	1192	955	402
1991		429	373	229	79	116	1105	384	987	520	365
1992		267	303	445	120	86	1251	580	1220	771	703
1993		233	217	159	28	69	830	466	762	375	303
1994		305	392	595	102	88	1698	682	999	542	
1995		334	279	578	112	154	1501	618	1158	827	213
1996		146	396	264	83	127	1339	728	989	1296	536

Year	Station	Faisalabad	D.I.Khan	Multan	Bahawalpur	Jacobabad	Nawabshah	Hyderabad	Karachi (Airport)
	Height in metres above sea level	183	173	122	116	55	37	40	21
1983		517	445	291	274	77	157	301	281
1984		353	129	106	99	202	132	206	270
1985		235	139	158	100	183	105	116	155
1986		344	335	219	207	84	149	178	92
1987		363	159	108	107	38	--	16	--
1988		214	190	125	137	335	22	265	160
1989		115	329	217	296	188	133	201	190
1990		242	364	171	142	116	175	171	137
1991		141	287	129	56	21	26	9	25
1992		376	421	513	384	261	386	427	268
1993		271	250	300	137	38	50	61	36
1994		191	38	303	246	366	552	487	482
1995		229	412	365	193	95	213	96	260
1996		378	240	240	144	108	4	24	108

Source: Pakistan Meteorological Department.

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1.3 Monthly average normal temperature at selected centres

Station	Quetta (Samungli)	Zhob (Fort- Sandeman)	Khuzdar	Panjgoor	Dalbadin	Rawalpindi/ Islamabad
Height in metres above sea level	1600	1405	1231	980	848	507

(Centigrade)

Mean of maximum

Jan	12.4	-	18.1	18.3	19.1	18.2
Feb	12.1	12.5	18.6	19.9	20.3	17.7
Mar	20.3	22.9	26.7	27.8	28.3	26.0
Apr	24.2	25.1	28.0	30.2	31.5	28.7
May	31.4	33.0	35.8	37.3	39.3	35.8
Jun	36.3	37.5	38.7	40.8	43.0	40.1
Jul	35.9	34.6	34.0	37.0	42.3	33.3
Aug	35.8	35.0	33.2	37.5	42.0	32.4
Sep	28.3	30.8	31.1	32.5	35.5	32.9
Oct	24.1	26.9	28.7	30.3	31.8	29.8
Nov	21.8	24.0	25.8	27.5	28.7	25.8
Dec	13.5	16.2	19.9	19.5	20.3	18.2

Mean of minimum

Jan	-3.5	-	3.9	4.7	2.3	4.4
Feb	-0.8	2.5	5.5	6.5	5.5	5.4
Mar	6.2	10.3	13.2	13.4	12.3	11.5
Apr	7.8	11.8	15.4	15.3	13.8	14.0
May	13.5	19.0	21.6	21.0	20.4	20.8
Jun	18.5	23.8	25.2	25.2	24.6	24.7
Jul	21.3	23.4	23.0	25.1	27.6	24.5
Aug	21.7	23.3	22.9	24.1	25.8	24.2
Sep	10.9	17.6	17.7	18.7	17.0	19.5
Oct	6.1	11.9	14.3	15.8	13.3	13.6
Nov	4.3	7.7	9.5	12.0	10.3	8.7
Dec	-1.4	2.8	5.0	5.3	2.9	5.0

Contd.

1.3 Monthly average normal temperature at selected centres

Station	Peshawer	Jhelum	Lahore	Sargodha	Faisalabad	D.I. Khan
Height in metres above sea level	359	232	213	187	183	173

(Centigrade)

Mean of maximum

Jan	19.6	20.6	19.9	20.2	19.7	20.1
Feb	18.5	21.0	21.7	22.4	20.7	-
Mar	26.1	29.6	29.3	27.4	28.9	28.9
Apr	28.9	31.4	32.5	33.9	34.4	34.7
May	36.4	39.6	39.5	39.1	40.1	39.2
Jun	41.9	42.5	41.7	41.7	42.5	41.3
Jul	35.6	34.7	35.8	37.9	37.4	36.8
Aug	35.4	33.1	34.0	36.3	36.3	36.3
Sep	34.2	34.1	34.0	36.3	34.4	35.2
Oct	30.0	31.9	32.3	33.6	32.1	32.7
Nov	26.8	27.7	28.1	27.8	27.9	28.5
Dec	19.3	20.2	21.8	22.0	21.4	21.5

Mean of minimum

Jan	4.9	6.4	8.3	3.6	4.9	5.3
Feb	5.8	8.1	9.9	6.8	6.8	--
Mar	12.1	14.4	16.4	12.4	13.8	14.7
Apr	14.8	16.5	18.8	17.9	16.9	17.4
May	21.0	23.8	25.5	22.5	24.5	24.1
Jun	25.5	27.1	28.5	26.7	27.8	26.2
Jul	26.5	26.4	28.1	27.2	28.0	26.8
Aug	26.0	25.8	27.0	26.4	27.5	26.5
Sep	20.5	22.0	23.8	23.7	23.0	22.6
Oct	14.0	15.8	17.9	16.9	16.2	16.5
Nov	9.3	11.2	13.5	9.9	11.9	12.9
Dec	5.1	7.5	8.9	4.8	6.3	6.9

Contd.

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1.3 Monthly average normal temperature at selected centres

Station	Multan	Bahawalpur	Jacobabad	Nawabshah	Hyderabad	Karachi
Height in metres above sea level	122	116	55	37	40	21

(Centigrade)

Mean of maximum

Jan	21.2	21.8	23.3	25.1	24.9	26.6
Feb	22.1	22.7	24.7	27.2	26.6	28.0
Mar	31.1	30.6	38.2	35.4	35.7	34.3
Apr	34.6	34.7	36.9	38.5	37.3	34.1
May	41.4	42.1	44.9	45.1	42.1	35.6
Jun	43.6	43.3	44.8	43.4	40.3	36.4
Jul	38.9	38.2	38.1	37.8	35.2	32.3
Aug	36.4	36.5	36.4	36.2	33.4	31.0
Sep	34.5	35.1	35.9	35.8	34.0	32.8
Oct	33.1	33.2	33.7	36.7	35.8	36.0
Nov	29.0	30.7	30.2	32.6	32.0	33.7
Dec	22.2	23.7	23.6	26.0	25.3	27.8

Mean of minimum

Jan	5.9	6.2	7.3	7.3	11.6	11.4
Feb	7.2	8.3	9.8	8.5	13.7	13.1
Mar	15.0	13.9	18.0	15.0	19.4	18.9
Apr	18.1	17.6	21.2	18.4	21.8	21.8
May	25.5	25.0	27.8	24.7	25.5	25.9
Jun	29.4	26.9	29.1	27.5	27.9	27.6
Jul	28.2	26.0	28.7	26.9	27.1	25.9
Aug	28.2	25.5	29.1	25.8	26.2	25.0
Sep	23.6	23.3	25.8	23.2	24.3	23.4
Oct	17.4	16.7	21.0	18.0	21.4	18.3
Nov	13.6	13.6	16.9	14.1	17.9	15.6
Dec	7.7	7.7	10.7	8.7	12.4	11.4

Source: Pakistan Meteorological Department.

1.4 Monthly normal rainfall at selected centres

(Millimetre)

Station	Quetta (Samungli)	Zhob (Fort- Sandeman)	Khuzdar	Panjgoor	Dalbadin
Height in metres above sea level	1600	1495	1231	980	848

Jan	48.4	16.0	5.0	2.5	15.0
Feb	35.2	35.0	69.2	13.3	30.2
Mar	26.6	59.0	6.6	0.0	18.6
Apr	4.6	52.0	64.5	16.9	7.5
May	29.0	0.8	12.9	0.0	3.2
Jun	--	54.0	2.4	0.0	0.0
Jul	64.0	95.0	190.7	42.5	6.4
Aug	22.0	3.3	150.3	14.0	0.0
Sep	62.0	58.0	41.0	1.4	0.0
Oct	--	0.0	--	3.5	3.5
Nov	0.0	3.0	--	0.0	0.0
Dec	13.0	16.0	52.1	7.6	3.1

Station	Sargodha	Faisalabad	D. I. Khan	Multan	Bahawalpur
Height in metres above sea level	187	183	173	122	116

Jan	13.0	3.3	0.3	5.2	5.3
Feb	23.1	8.9	--	6.4	4.7
Mar	35.1	0.3	32.6	5.2	0.0
Apr	29.5	11.0	36.8	3.2	11.0
May	21.1	2.5	3.8	39.8	27.0
Jun	23.2	--	68.1	--	2.0
Jul	108.2	37.6	154.3	51.3	60.2
Aug	129.1	49.5	80.2	17.6	76.2
Sep	26.3	71.0	17.9	159.4	52.2
Oct	07.7	0.0	4.8	0.0	--
Nov	05.8	1.0	8.0	--	--
Dec	12.8	5.5	7.4	15.1	7.7

Contd.

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1.4 Monthly normal rainfall at selected centres

(Millimetre)

Station	Rawalpindi/ Islamabad	Peshawar	Jhelum	Lahore
Height in metres above sea level	507	359	232	213

Jan	36.1	17.0	10.7	24.0
Feb	51.4	77.5	24.1	21.5
Mar	36.0	60.0	19.0	6.0
Apr	69.3	80.0	54.9	9.8
May	36.0	25.5	1.6	36.7
Jun	54.8	14.0	33.0	13.6
Jul	596.7	162.3	457.3	128.3
Aug	637.7	37.5	296.9	154.3
Sep	56.2	95.1	13.0	115.5
Oct	29.8	55.7	21.8	4.3
Nov	1.0	1.0	0.0	0.5
Dec	93.2	56.7	67.1	27.5

Station	Jacobabad	Nawabshah	Hyderabad	Karachi (Airport)
Height in metres above sea level	55	37	40	21

Jan	0.7	0.0	1.4	2.2
Feb	13.6	0.2	1.3	2.5
Mar	0.5	0.0	0.0	0.0
Apr	..	2.5	26.7	..
May	..	0.0	0.0	0.0
Jun	5.3	0.0	0.0	..
Jul	156.8	71.1	46.6	256.3
Aug	102.7	234.4	284.6	147.8
Sep	48.1	238.7	126.5	61.7
Oct	0.0	0.0	0.0	0.0
Nov	..	0.0	0.0	0.0
Dec	38.6	4.8	2.0	11.0

Source: Pakistan Meteorological Department.