

Climate

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Table 4.1: Annual Rain-fall in Kashmir Province

Rain-fall (in mm.) and Rainy days (in Nos.)

Year	Regional Metrological Station											
	Srinagar (IMD)		Pahalgam		Kukernag		Qazigund		Gulmarg		Kupwara	
	Rainy days	Rain fall	Rainy days	Rain fall	Rainy days	Rain fall	Rainy days	Rain fall	Rainy days	Rain fall	Rainy days	Rain fall
2004	63	635.2	110	976.6	76	671.8	92	1006.1	103	1057.8	96	868.8
2005	72	680.8	132	1300.7	107	1107.2	109	1275.7	140	1663.0	106	970.0
2006	89	887.6	126	1514.7	92	967.1	92	1407.1	124	1664.3	109	1196.3
2007	68	501.8	100	921.2	76	713.0	71	879.8	111	937.8	84	654.2
2008	85	649.7	120	1038.2	108	1215.3	102	1075.3	125	1222.9	108	989.5
2009	55	538.3	68	1124.6	93	1100.9	74	990.5	81	933.1	69	913.5
2010	65	847.7	101	1543.2	85	1226.5	81	1207.8	98	1406.4	73	1216.3
2011	57	64.1	96	1255.8	68	955.7	74	1181.3	86	1091.3	65	1074.5
2012	88	543.5	171	1185.8	123	1007.4	114	1006.9	156	1155.8	126	1163.3
2013	88	689.9	137	1161.5	111	934.9	102	1172.5	122	959.5	105	906.8

Table 4.2: Annual Rain-fall in Jammu Province

Rain-fall (in mm.) and Rainy days (in Nos.)

Year	Station											
	Jammu		Banihal		Batote		Bhaderwah		Katra		Kathua	
	Rainy days	Rain fall	Rainy days	Rain fall	Rainy days	Rain fall	Rainy days	Rain fall	Rainy days	Rain fall	Rainy days	Rain fall
2004	64	1098.9	79	982.8	83	1151.2	100	1193.5	87	1819.7	56	1005.4
2005	74	1112.4	109	1553.2	110	1703.5	119	1597.4	92	1879.2	74	1301.8
2006	66	1235.8	88	1865.4	108	1912.5	110	1407.9	108	2546.9	79	1162.9
2007	74	1294.1	68	1038.4	62	1038.4	77	918.8	88	2283.2	81	1896.4
2008	87	1339.4	111	1180.7	101	1265.9	112	1075.5	125	2375.5	87	1360.4
2009	41	799.9	71	994.9	67	978.2	77	955.7	59	1132.9	51	713.4
2010	59	1343.8	77	1289.0	77	1478.8	85	1192.4	77	1830.6	60	1409.0
2011	62	1478.0	64	1326.8	67	1347.7	68	1065.0	88	1911.4	59	1137.3
2012	75	1396.8	97	1255.1	141	1411.9	142	906.8	113	1968.4	66	1553.4
2013	116	1716.2	101	1115.2	124	1524.2	112	1380.0	125	2964.5	84	1961.4

Source (Tables 4.1 & 4.2): Directorate of Economic & Statistics, Govt. of Jammu & Kashmir (Digest of Statistics, 2012-13)
<http://ecostatjk.nic.in/publications/publications.htm> (accessed on 12.10.2015)

Table 4.3: Mean Maximum Temperature at Srinagar Province

(in Degree Celsius)

Month	Year										
	1985	1990	1995	1996	1997	1999	2000	2001	2002	2003	2004
January	6.4	8.9	3.2	5.9	3.2	5.9	7.6	11.7	9.3	11.2	7.1
February	13.0	9.8	6.8	10.7	10.8	10.7	10.2	13.7	9.5	10.3	13.0
March	18.3	12.6	13.6	14.1	14.2	15.5	15.2	18.0	16.8	13.7	21.7
April	21.1	18.9	17.6	19.9	19.4	24.7	23.1	21.7	20.6	21.0	20.7
May	24.0	28.1	25.1	21.3	22.5	26.0	29.1	28.4	26.5	22.2	25.4
June	29.4	30.2	30.5	26.9	27.4	30.3	30.1	29.6	28.9	30.1	27.8
July	30.0	30.8	29.8	29.4	31.9	31.6	30.0	30.1	30.5	30.9	29.4
August	30.0	29.0	28.7	27.5	29.1	29.9	29.6	30.2	29.8	28.6	29.3
September	29.0	28.1	26.9	28.4	27.8	29.7	27.1	26.9	25.1	26.9	29.0
October	21.0	22.5	21.10	19.8	19.9	24.7	25.6	24.4	23.3	23.0	20.6
November	16.0	16.8	15.8	13.1	13.7	15.4	17.2	15.5	18.5	15.4	17.9
December	9.0	7.3	6.2	7.7	8.4	12.6	11.0	10.6	10.0	10.0	9.7

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Month	2005	2006	2007	2008	2009	2010	2011	2012	2013
January	7.5	04.3	10.0	05.5	9.0	10.9	7.9	4.8	7.8
February	6.5	13.4	12.0	08.7	11.0	9.8	9.5	9.7	10.8
March	14.7	16.0	14.7	20.0	16.0	20.7	17.1	16.2	18.3
April	20.7	21.1	25.6	20.1	20.4	21.3	18.6	19.9	20.0
May	21.8	28.2	25.5	25.6	25.3	22.7	27.7	23.8	24.9
June	29.3	27.6	27.8	29.6	26.7	25.7	30.3	27.4	29.4
July	28.9	30.9	29.8	29.9	29.9	28.9	29.8	30.9	31.1
August	30.4	28.7	30.1	29.5	31.4	28.5	30.1	29.9	28.8
September	29.3	25.9	27.3	26.5	28.60	26.6	27.8	26.3	27.6
October	22.7	22.9	24.1	22.9	22.9	23.8	22.3	21.2	24.4
November	15.8	15.0	17.1	15.4	14.5	18.6	15.7	16.8	15.9
December	09.9	9.9	08.4	10.4	10.7	11.3	10.4	9.0	10.7

Source: Directorate of Economic & Statistics, Govt. of Jammu & Kashmir (Digest of Statistics, 2012-13)
<http://ecostatjk.nic.in/publications/publications.htm> (accessed on 12.10.2015)

Table 4.4: Mean Minimum Temperature at Srinagar Province

(in Degree Celsius)

Month	1985	1990	1995	1996	1997	1999	2000	2001	2002	2003	2004
January	-1.3	-1.1	-4.7	-2.7	-3.2	-0.8	-2.0	-3.6	-2.8	-2.9	0.3
February	-1.3	1.5	-0.7	0.7	-0.8	2.2	-0.3	-0.3	-0.5	0.4	1.1
March	4.7	2.5	3.4	4.9	4	4.6	2.9	3.2	4.5	3.7	5.6
April	8.6	6.9	7.4	7.5	7.4	8.3	7.9	8.5	8.6	8.6	8.5
May	10.9	11.9	10.5	10.0	9.6	11.4	13.2	14.5	11.3	9.1	10.7
June	14.1	16.3	14.1	15.4	14.7	14.4	16.3	17.4	15.2	14.9	15.0
July	19.1	18.5	18.7	17.8	20	18.4	18.7	19.5	17.1	18.9	16.9
August	17.9	18.3	18.5	17.5	17.1	17.3	17.7	17.6	18.2	17.1	17.1
September	12.5	14.1	11.4	13.8	13.8	14.5	11.3	11.2	11.6	13.6	12.6
October	6.5	4.7	6.5	5.9	7.6	5.1	5.6	6.1	6.6	5.1	6.2
November	0.3	0.3	-0.6	1.1	2.3	2.5	2.5	0.9	0.7	0.7	1.1
December	-0.8	-1.7	-0.3	-3.1	0.5	-3.9	-0.7	-0.9	-0.8	0.0	-0.7

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Month	2005	2006	2007	2008	2009	2010	2011	2012	2013
January	-0.3	-01.3	-02.5	-02.5	0.4	-01.5	-2.7	-3.1	-2.2
February	0.7	03.3	02.9	01.4	1.5	00.4	1.5	0.2	0.9
March	5.3	04.7	03.0	05.3	5.0	06.5	3.9	4.3	5.4
April	7.1	07.2	08.9	07.7	8.0	09.0	7.0	8.2	8.3
May	9.9	13.3	11.9	11.5	10.8	11.1	12.6	10.1	11.4
June	14.4	14.7	16.0	18.3	13.0	13.5	16.7	14.1	16.9
July	18.0	19.3	17.8	19.1	16.9	17.7	18.3	18.6	19.3
August	16.9	18.3	17.8	17.8	17.9	18.8	18.1	19.1	19.3
September	13.7	12.3	13.3	11.3	11.9	13.3	14.1	14.5	13.9
October	5.8	08.0	03.9	06.9	5.1	07.3	6.9	5.8	9.7
November	-00.2	03.5	-01.1	01.0	0.5	02.2	2.8	1.6	0.6
December	-03.3	00.0	-02.0	00.7	-0.8	-3.7	-1.9	-0.4	-1.4

Source: Directorate of Economic & Statistics, Govt. of Jammu & Kashmir (Digest of Statistics, 2012-13)
<http://ecostatjk.nic.in/publications/publications.htm> (accessed on 12.10.2015)

Table 4.5: Mean Maximum Temperature at Jammu Province

(in Degree Celsius)

Month	1985	1990	1995	1996	1997	1999	2000	2001	2002	2003
January	19.5	19.4	18.7	19.2	18.7	16.5	18.5	17.3	19.7	14.8
February	24.6	19.8	20.2	21.6	21.6	22.7	20.1	24.2	22.5	22.5
March	30.6	24.1	24.8	26.2	25.8	27.0	26.3	28.7	28.1	26.1
April	34.2	NA	29.5	32.7	29.3	36.6	35.6	33.4	34.7	33.4
May	39.9	37.9	38.6	36.0	37.9	38.7	38.1	38.9	40.5	37.7
June	40.9	39.4	41.7	35.4	36.3	37.7	36.4	35.1	38.7	39.2
July	33.2	33.5	33.5	33.9	34.1	33.9	33.1	33.0	37.1	34.1
August	33.8	32.1	32.3	31.2	31.9	33.7	33.5	34.1	33.4	33.6
September	42.9	31.9	33.0	33.0	33.1	33.3	32.6	33.2	31.7	32.8
October	29.6	29.0	32.0	30.0	27.6	31.9	32.6	32.2	30.7	30.2
November	26.5	27.3	26.7	26.5	24.2	26.9	26.9	27.5	27.0	25.8
December	20.2	20.8	21.2	22.0	16.9	23.1	23.2	22.2	22.3	20.8

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Month	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
January	18.0	17.9	18.7	20.5	17.6	20.2	17.5	16.8	18.4	16.5
February	23.4	17.9	26.6	20.6	20.9	23.7	23.3	20.4	20.5	19.8
March	31.4	26.0	26.8	25.9	30.5	28.3	31.0	27.9	27.6	26.8
April	34.6	32.7	34.6	35.8	32.6	34.0	37.5	32.2	32.6	32.5
May	38.8	35.8	39.4	37.1	37.6	38.6	39.1	39.1	38.1	39.1
June	36.9	40.3	38.8	37.5	35.3	40.5	39.0	36.2	41.5	36.9
July	35.2	34.0	34.4	34.4	34.3	36.5	34.3	33.0	36.3	33.4
August	33.2	34.7	32.7	33.8	33.6	33.5	32.6	32.5	32.7	21.4
September	33.5	32.0	32.5	33.4	33.5	33.5	32.5	32.8	31.9	32.5
October	29.5	31.8	30.9	32.1	31.7	31.7	31.1	30.6	30.0	30.2
November	26.7	27.0	25.7	26.8	27.9	26.1	27.1	26.4	25.6	25.5
December	21.8	21.7	20.0	21.2	22.1	21.5	21.0	22.4	19.6	20.0

NA: Not Available

Source: Directorate of Economic & Statistics, Govt. of Jammu & Kashmir (Digest of Statistics, 2012-13)

<http://ecostatjk.nic.in/publications/publications.htm> (accessed on 12.10.2015)

Table 4.6: Mean Minimum Temperature at Jammu Province

(in Degree Celsius)

Month	1985	1990	1995	1996	1997	1999	2000	2001	2002	2003
January	7.6	9.3	7.7	8.1	7.0	8.3	8.4	5.9	7.9	5.5
February	8.8	10.4	10.8	11.2	9.6	10.9	9.1	10.6	10.4	10.8
March	15.2	12.7	14.4	14.8	14.4	14.6	13.9	15.2	16.0	14.7
April	19.6	NA	18.4	20.4	18.2	21.9	21.7	20.4	21.8	20.1
May	24.7	26.1	25.0	24.1	22.2	25.5	26.6	26.1	26.2	24.3
June	26.0	28.1	27.5	25.3	25.2	25.5	25.3	25.1	26.7	26.5
July	24.7	25.4	25.7	25.4	24.3	26.1	25.6	25.4	26.0	25.3
August	24.8	24.8	24.8	24.3	23.5	25.3	25.2	25.5	25.8	25.2
September	23.1	23.8	23.9	23.9	22.8	24.3	22.8	22.9	22.1	23.5
October	17.0	18.8	19.7	18.0	16.7	19.5	20.2	19.9	19.1	18.4
November	11.7	14.5	14.0	13.0	12.2	13.9	14.4	13.8	13.8	13.1
December	11.2	9.9	9.5	7.9	8.5	9.4	9.2	9.3	10.5	9.6

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Month	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
January	8.9	7.0	08.1	06.7	05.3	08.5	05.8	6.4	6.1	6.7
February	10.9	9.9	13.8	10.7	08.4	11.2	10.6	10.2	7.7	9.1
March	17.3	15.1	14.6	13.1	16.5	15.2	17.6	14.8	13.5	13.7
April	23.1	19.2	20.6	20.7	19.1	19.5	23.2	19.1	18.5	18.9
May	24.2	23.4	26.4	23.6	23.5	23.9	25.4	25.5	22.9	24.5
June	25.9	27.7	25.8	25.8	24.9	25.6	26.2	25.1	26.4	26.7
July	25.1	24.6	26.0	24.6	25.3	25.3	25.8	24.9	26.1	25.3
August	24.8	24.5	24.7	24.7	24.4	24.5	25.3	24.6	24.1	24.4
September	24.0	24.3	22.5	23.0	22.3	23.7	23.1	23.7	22.3	22.5
October	17.8	19.2	19.2	16.7	19.0	17.3	19.9	18.5	17.1	19.5
November	13.4	12.2	13.7	13.0	12.8	11.5	14.0	14.0	12.2	10.7
December	10.0	07.1	09.0	07.6	09.9	07.7	08.4	8.7	8.4	7.6

NA: Not Available

Source: Directorate of Economic & Statistics, Govt. of Jammu & Kashmir (Digest of Statistics, 2012-13)
<http://ecostatjk.nic.in/publications/publications.htm> (accessed on 12.10.2015)

Table 4.7: Mean Relative Humidity (RH) at Srinagar Province

(in Percentage)

Month	2008		2009		2010		2011		2012		2013	
	Mean RH *	Mean RH**	Mean RH *	Mean RH**	Mean RH *	Mean RH *	Mean RH**	Mean RH *	Mean RH *	Mean RH**	Mean RH *	Mean RH**
January	089	070	094	074	088	055	084	060	088	070	087	063
February	087	063	089	060	087	060	087	066	086	061	088	058
March	069	040	077	047	071	039	075	052	070	043	074	043
April	073	052	073	048	077	053	075	058	073	055	074	053
May	070	053	068	043	078	061	066	044	071	049	069	045
June	073	051	069	046	074	061	065	047	066	043	071	046
July	075	053	071	046	075	056	073	051	070	045	072	047
August	076	051	072	047	085	062	076	050	078	056	080	060
September	076	049	073	046	078	055	077	054	081	060	078	051
October	082	056	072	047	077	049	081	057	081	054	078	055
November	089	062	085	058	085	055	087	064	083	056	082	054
December	094	073	090	065	090	058	088	064	089	071	086	065

* Mean R/H at 08:30 hours, ** Mean R/H at 17:30 hours

Source: Directorate of Economic & Statistics, Govt. of Jammu & Kashmir (Digest of Statistics 2012-13)

<http://ecostatjk.nic.in/publications/publications.htm> (accessed on 12.10.2015)

Table 4.8: Mean Relative Humidity (RH) at Jammu Province

(in percentage)

Month	2008		2009		2010		2011		2012		2013	
	Mean RH *	Mean RH **	Mean RH *	Mean RH **	Mean RH *	Mean RH *	Mean RH **	Mean RH *	Mean RH *	Mean RH **	Mean RH *	Mean RH **
January	087	069	091	074	091	074	086	068	081	064	086	068
February	082	061	074	052	074	052	084	066	081	053	083	064
March	064	052	065	045	065	045	068	053	060	040	070	049
April	059	044	039	026	039	026	056	039	057	039	043	028
May	053	038	044	029	044	029	046	030	044	027	029	018
June	079	065	051	034	051	034	068	048	043	025	063	046
July	087	072	079	063	079	063	083	071	076	059	086	069
August	036	072	090	076	090	076	087	074	088	076	091	079
September	080	065	083	069	083	069	083	069	087	074	080	065
October	054	061	075	064	075	064	073	057	073	057	081	070
November	076	067	075	060	075	060	074	061	074	061	079	070
December	092	082	076	065	076	065	072	060	085	072	089	072

* Mean R/H at 08:30 hours, ** Mean R/H at 17:30 hours

Source: Directorate of Economic & Statistics, Govt. of Jammu & Kashmir (Digest of Statistics 2012-13)

<http://ecostatjk.nic.in/publications/publications.htm> (accessed on 12.10.2015)

Table 4.9: Rainfall Statistics* for the Year, 2014

(in mm.)

Seasons /Year	Actual	Normal	% Dep.
Winter (January – February)	195.0	212.9	-8
Pre-monsoon (March - May)	395.0	326.0	21
Monsoon (June - September)	633.4	534.6	18
Post Monsoon (October - December)	55.0	131.8	-58
Annual	1278.4	1205.3	6

*based on Operational data

Table 4.10: Rainfall Statistics* for the Year, 2015

(in mm.)

Seasons /Year	Actual	Normal	% Dep.
Winter (January – February)	215.1	212.9	1
Pre-monsoon (March - May)	579.2	326.0	78
Monsoon (June - September)	614.0	534.6	15
Post Monsoon** (October - December)	87.1	38.9	124
Annual	NA	NA	NA

*based on Operational data, ** for the month of October, 2015, NA: Not Available (till accessed date)

Source (Tables 4.9 & 4.10): India Meteorological Department, Pune (Annual Climate Summary, 2014)
http://www.imdpune.gov.in/research/ncc/ncc_index.html (accessed on 18.01.2016)