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PAKISTAN WEATHER REVIEW, 1950

Monthly Weather Report

JANUARY

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Chief features:— (1) Frequent passage of active western disturbances and associated spells of wet weather in West Pakistan in the second half of the month.

(2) Practically dry weather over East Pakistan during the whole month.

West Pakistan:—Except for local showers in the north Punjab and the North-West Frontier Province, at the beginning of the month, weather remained practically dry over West Pakistan during the first half of the month; the few western disturbances affecting the region were too feeble and caused only light rain/drizzle in the North-West Frontier Province and north Baluchistan.

During the latter half of the month, however, frequent spells of wet weather occurred over West Pakistan, due to the passage of a series of active western disturbances across the extreme north of West Pakistan and their secondaries moving across Baluchistan and the plains of the Punjab, the most marked spell among them occurring towards the end of the month, from 26th to 30th, when excessive rain fell over the entire West Pakistan.

Some of the noteworthy amounts of rainfall recorded during the month were:—Rawalpindi 1" on the 1st; Chakdara 2" on the 17th; Lahore and Nushki 1½" each, Harnai and Dalbandin 1" each on the 18th; Kalat 3", Murree and Jhelum 2" each and Cherat 1" on the 19th; Sialkot 1" on the 20th; Murree 1" on the 25th; Jhelum 1½" and Sialkot 1" on the 26th; Nokkundi 2", Chakdara 1½" on the 27th; Harnai and Quetta 1½" each, Chakdara, Hindubagh, Sibi, Chaman and Parachinar 1" each on the 28th; Hindubagh 2", Cherat, Parachinar and Chaman 1½" each, Khushab, Chakdara, Landikotal and Murree 1" each on the 29th; Murree and Chakdara 1" each on the 30th.

The mean actual rainfall during the month was in large excess in the Punjab, the North-West Frontier Province and north Baluchistan. It was normal in upper Sind, in moderate defect in lower Sind and in large defect in south Baluchistan. Averaged over the plains of West Pakistan, the rainfall was in large excess.

The mean maximum and minimum temperatures were normal over the region, except in the Punjab, where the mean minimum temperature was above normal. Mean relative humidity was in excess in the Punjab and the lower Sind and normal elsewhere. Skies were more clouded than usual in the north Punjab, the lower North-West Frontier Province and upper Sind.

East Pakistan:—Except for a few showers in the Eastern sub-division of East Pakistan on the 18th and 28th, under the influence of low pressure waves moving eastwards across north Bengal, weather continued dry over East Pakistan, during the month.

The mean actual rainfall during the month was in large defect in the Eastern sub-division. No rain fell in the other sub-divisions. The mean maximum temperature was above normal in the Northern and Deltaic sub-divisions and normal in the Eastern sub-division. The mean minimum temperature was normal over the region. Relative humidity was in defect in the Northern sub-division and normal elsewhere. Skies were normally clouded in the Eastern sub-division and less clouded than usual elsewhere.

Table I contains the Divisional and Sub-divisonal means of rainfall, temperature, humidity and cloud for the 5 chief divisions and 12 sub-divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

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TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—JANUARY 1950.

DIVISION.	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour Pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb	%	
1 East Pakistan	0·03	0·35	—0·32	— 91	+1·7	+0·9	+0·6	— 1	—0·6
Mean of East Pakistan	0·03	0·35	—0·32	— 91	+1·7	+0·9	+0·6	— 1	—0·6
2. Punjab	2·13	0·93	+1·20	+129	—0·7	+2·2	+1·0	+ 7	+0·8
3. North-West Frontier Province ...	2·21	0·80	+1·41	+176	—1·3	+1·1	+0·4	+ 3	+0·9
4. Baluchistan	2·31	1·01	+1·30	+129	+0·3	+0·1	0·0	+ 2	—0·1
5. Sind	0·19	0·24	—0·05	— 21	+0·8	+0·9	+0·9	+3	+0·8
Mean of West Pakistan excluding Baluchistan.	1·48	0·67	+0·81	+121	—0·3	+1·6	+0·9	+5	+0·8
SUB-DIVISION									
1. East Pakistan (North)... ...	0·00	0·38	—0·38	—100	+2·0	+0·5	—0·2	—10	—1·0
2 East Pakistan (East)	0·07	0·28	—0·21	— 75	+1·4	+0·7	+0·7	+ 3	—0·2
3. East Pakistan (Deltaic) ...	0·00	0·41	—0·41	—100	+2·0	+1·3	+0·9	0	—1·0
4. Kashmir*									
5. North Punjab	2·98	1·32	+1·66	+126	— 0·7	+2·0	+0·9	+ 7	+1·1
6. South Punjab	0·72	0·28	+0·44	+157	—0·7	+2·7	+1·2	+ 9	+0·3
7. North West Frontier Province (Upper)	2·59	1·44	+1·15	+ 80	—1·6	—0·4	+0·5	— 3	+0·1
8. North-West Frontier Province (Lower)	2·08	0·59	+1·49	+253	—1·3	+1.6	+0·4	+ 5	+1·2
9. Baluchistan (North)	3·38	0·94	+2·44	+260	+0·8	+0·5	—0·2	+ 2	—0·1
10. Baluchistan (South)	0·45	1·15	—0·70	— 61	—0·4	—1·3	+0·4	+ 1	0·0
11. Sind (Upper)	0·23	0·21	+0·02	+ 10	—1·1	+0·8	—0·3	— 2	+1·4
12. Sind (Lower)	0·15	0·26	—0·11	— 42	+1·4	+1·0	+2·1	+ 6	+0·3

* Data incomplete.

TALBE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION	Height of bar. cistern above M.S.L. in feet.	Pressure at station level in millibars: Mean 0300 hrs. G. M. T.	Pressure at station level in millibars: Departure from normal	Pressure at station level in millibars: Mean 1200 hrs. G. M. T.	Pressure at M. S. L.: Mean 0300 hrs. G. M. T.	Pressure at M. S. L.: Mean 1200 hrs. G. M. T.	Maximum temperature °F: Mean	Maximum temperature °F: Departure from normal	Maximum temperature °F: Highest	Maximum temperature °F: Date	Minimum temperature °F: Mean	Minimum temperature °F: Departure from normal	Minimum temperature °F: Lowest	Minimum temperature °F: Date	Dry bulb temperature °F: Mean 0300 hrs. G. M. T.	Dry bulb temperature °F: Mean 1200 hrs. G. M. T.	Wet bulb temperature °F: Mean 0300 hrs. G. M. T.	Wet bulb temperature °F: Mean 1200 hrs. G. M. T.	Vapour pressure millibars: Mean 0300 hrs. G. M. T.	Vapour pressure millibars: Departure from normal	Vapour pressure millibars: Mean 1200 hrs. G. M. T.	Relative humidity %: Mean 0300 hrs. G. M. T.	Relative humidity %: Departure from normal	Relative humidity %: Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
EAST PAKISTAN (North)																								
Sirajganj ...	48	1012.8		1009.1	1014.6	1010.8	79.2		83	28	53.1		47	3	62.1	69.5	58.3	62.8	14.7		16.4	80		68
Bogra ...	63	1013.7	—1.7	1010.1	1016.0	1012.3	78.1	+2.3	81	5 days	52.5	+0.4	48	1, 23, 24	63.5	72.9	56.7	62.3	12.2	—2.0	14.6	63	—17	53
Dinajpur ...	123	1011.9	—1.2	1008.2	1016.3	1012.5	77.6	+2.2	82	29	50.1	+0.5	45	1, 11, 12	60.9	69.7	57.2	62.0	14.6	+1.1	15.9	77	—7	63
EAST PAKISTAN (East)																								
Cox's Bazar ...	38	1013.5	—1.8	1011.3	1014.9	1012.7	80.2	+0.6	86	29	55.8	—0.4	51	4 days	68.3	71.0	63.2	64.7	17.4	+0.3	17.8	70	—3	70
Chittagong ...	87	1012.5	—1.5	1009.1	1015.6	1012.2	80.5	+1.7	84	24, 25	55.7	+0.7	51	1	66.6	70.6	61.4	63.9	16.7	+0.6	17.8	73	—4	68
Comilla ...	29	1014.5	—1.6	1011.1	1015.5	1012.1	80.6	+2.1	84	24	55.2	+2.3	50	1	64.4	72.2	60.8	64.6	16.4	+0.4	17.3	80	+5	65
Narayanganj (R) ...	26																							
Brahmanbaria ...	32	1014.5		1010.9	1015.6	1012.0	79.2	+0.8	84	23	55.3	+3.8	50	12	65.4	70.9	61.6	63.6	16.5	+1.8	16.6	79	+9	65
Srimangal ...	69	1013.0	—2.3	1009.8	1015.5	1012.3	79.1	—0.4	82	24	47.1	—0.4	39	12	59.5	64.3	57.9	61.5	15.5	+1.3	17.0	91	+7	85
Mymensingh ...	62	1013.4	—2.1	1010.3	1015.7	1012.5	79.7	+3.6	85	27	51.3	—2.3	44	7, 10	60.3	70.1	57.5	62.2	14.5	—0.4	15.4	83	+2	64
EAST PAKISTAN (Deltaic)																								
Faridpur ...	46	1014.1	—1.3	1010.6	1015.7	1012.2	71.4	—4.5	78	26	53.0	+0.5	48	1	64.0	70.6	60.3	63.9	16.4	+1.5	17.8	79	+2	68
Barisal ...	11	1014.8	—2.2	1011.9	1015.2	1012.3	80.2	+2.4	83	7 days	57.4	+2.0	51	13	66.6	73.7	62.0	65.1	17.3	+0.9	17.6	77	+1	61
Khulna ...	16	1014.9	—2.3	1011.9	1015.5	1012.4	80.5	+2.0	89	18	57.0	+1.8	50	12	66.9	73.7	61.0	64.7	15.6	+0.9	17.0	70	+3	58
Jessore ...	26	1014.9	—2.0	1011.3	1015.8	1012.2	80.2	+1.6	85	18	50.3	+1.1	42	11	66.0	71.2	60.0	62.5	15.0	+0.5	15.5	69	—6	59
Satkhira (R) ...	16																							
KASHMIR																								
Srinagar † ...	5,205																							
Gulmarg † ...	8,709																							
Dras † ...	10,059																							
Leh † ...	11,529																							
Skardu † ...	7,505																							
Gilgit † ...	4,890	853.9		852.5	907.8	905.2	(b) 44.9	—2.0	50	18, 19	32.0	0	25	4	35.2	42.5	32.7	37.1	5.3		6.1	77		56
Misgar ...	10,190	693.0		691.3	696.8	695.1	30.8		37	30	19.0		3	4	19.0	26.7	16.2	21.5	2.2		2.4	66		49
NORTH PUNJAB																								
Lahore ...	702	990.5	—2.3	988.9	1016.3	1013.9	67.6	—0.4	75	16	44.4	+4.3	34	4	47.3	63.8	46.0	55.7	10.0	+1.4	11.5	90	+6	56
Sialkot ...	830	985.7	—2.7	984.5	1015.9	1014.0	64.5	—1.1	67	17	45.8	+3.6	38	7	49.0	61.0	47.2	54.8	10.3	+1.2	11.9	86	—1	66
Jhelum ...	765	988.5		986.9	1016.7	1014.2	64.2		72	16	42.8		35	7	45.9	60.6	44.9	54.7	9.7		11.9	91		68
Rawalpindi ...	1,674	956.4	—2.7	955.3	1017.3	1013.8	61.2	—1.1	71	13	39.2	+1.3	32	6 days	42.8	56.2	41.6	50.5	8.4	+1.0	10.2	90	+8	66
Khushab ...	616	993.5	—3.2	991.6	1016.9	1013.7	67.5	—0.2	75	10	38.8	—1.9	34	3, 4	44.5	64.3	42.2	53.8	8.1	+1.1	9.4	80	+14	47
Lyallpur ...	605	993.3	—3.3	992.0	1015.7	1013.6	66.6	—0.5	74	11	42.5	+2.6	35	31/x	44.6	61.3	42.5	53.5	8.3	—0.2	10.0	83	+6	53

† Data not available. (b) Mean of 29 days. (R) Register not received.

0300 HRS G.M.T. AND 1200 HRS. G. M. T. ~~FOR THE MONTH OF~~ JANUARY 1950

Cloud Amount (Eighths of sky)			Precipitation.						Wind Velocity knots		Wind Direction—Number of Winds from :—																		STATION
											0300 hrs. G. M. T.									1200 hrs. G. M. T.									
Mean, 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date.	Days with 0.10" or more	Departure from normal	Mean.	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm.	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
			"	"	"																								
																													EAST PAKISTAN (North)
0.5		0.3	0.00	−0.38	0.00		0	−0.8	2.1		5	2	0	0	4	0	1	10	9	1	0	0	0	1	0	6	2	21	Sirajganj.
1.0	−0.8	1.0	0.00	−0.43	0.00		0	−1.0	1.6	+0.7	0	3	3	0	0	2	8	6	9	0	2	1	0	0	2	4	1	21	Bogra.
0.3	−1.2	0.3	0.00	−0.36	0.00		0	−0.9	1.2	+0.1	0	2	0	0	0	0	1	1	27	0	0	0	0	0	0	0	0	31	Dinajpur.
																													EAST PAKISTAN (East)
1.0	−0.4	0.8	0.00	−0.14	0.00		0	−0.3			2	0	0	0	0	0	0	0	29	0	0	0	0	1	0	0	1	29	Cox's Bazar.
0.8	−0.6	0.8	0.00	−0.24	0.00		0	−0.4	2.9	−0.8	5	18	7	0	0	0	0	0	1	4	0	0	0	0	13	10	3	1	Chittagong.
1.2	−0.1	0.9	0.00	−0.32	0.00		0	−0.8	2.5	+1.4	10	0	1	4	11	0	0	4	1	9	0	1	1	6	0	5	3	6	Comilla.
																													Narayanganj (R).
1.8	+0.9	0.8	0.24	+0.02	0.24	27	1	+0.3	1.9		10	1	3	1	5	2	1	0	8	3	0	0	0	3	0	0	2	23	Brahmanbaria.
1.5	+0.1	1.5	0.17	−0.25	0.17	18	1	0	1.1	−0.3	1	0	1	1	2	0	0	0	26	0	1	2	0	1	0	1	0	26	Srimangal.
0.8	−1.1	1.3	0.00	−0.32	0.00		0	−0.9	1.5	+0.8	0	0	1	14	0	0	1	0	15	0	0	0	3	0	0	0	0	28	Mymensingh.
																													EAST PAKISTAN (Deltaic)
0.8	−0.5	0.6	0.00	−0.43	0.00		0	−0.9	2.2	+0.7	7	1	2	3	3	0	0	5	10	5	2	0	1	1	0	0	4	18	Faridpur.
0.7	−0.7	0.6	0.00	−0.42	0.00		0	−0.7	1.8	+0.7	7	1	0	0	2	0	0	3	18	1	0	1	0	2	2	1	0	24	Barisal.
0.1	−1.5	0.3	0.00	−0.44	0.00		0	−0.8	1.8	+0.1	1	2	3	0	2	2	4	7	10	0	0	0	0	2	1	0	0	28	Khulna.
0.3	−1.2	0.5	0.00	−0.37	0.00		0	−0.9	2.0	+1.0	7	1	0	3	4	0	1	4	11	1	0	0	0	0	2	3	3	22	Jessore
																													Satkhira (R).
																													KASHMIR
																													Srinagar. †
																													Gulmarg. †
																													Dras. †
																													Leh. †
																													Skardu. †
5.4	−0.2	7.0	2.45	+2.20	0.94	19	4	+3.2	0.0	−0.7	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	31	Gilgit
5.5		6.8	0.10		0.05	26	0		3.8		1	1	3	1	0	0	10	1	14	1	0	21	0	0	0	8	0	1	Misgar.
																													[NORTH PUNJAB
3.9	+0.9	4.1	3.33	+2.29	1.29	18	8	+6.0	2.1	+1.0	1	4	0	4	1	0	2	0	19	2	2	0	1	0	0	6	3	17	Lahore.
4.9	+2.3	5.5	4.89	+2.93	1.23	26	8	+5.1	1.5	+0.6	1	3	4	1	0	0	0	4	18	0	4	0	0	0	0	1	3	23	Sialkot.
5.1		4.9	5.71		1.51	19	9		1.9		1	1	1	0	1	0	3	4	20	2	1	2	3	0	1	3	5	14	Jhelum.
4.5	+1.3	4.7	3.89	+1.40	1.09	1	8	+4.2	1.6	0.0	0	0	2	0	1	1	2	0	25	0	0	2	1	8	3	4	1	12	Rawalpindi.
3.4	+0.7	3.1	1.85	+1.16	1.20	29	4	+2.5	3.0	+0.8	0	8	0	0	0	3	1	2	17	0	5	8	5	3	0	2	2	6	Khushab.
4.1	+0.5	4.2	0.94	+0.54	0.49	18	3	+2.0	1.3	0.0	3	1	1	1	1	2	4	2	16	2	3	0	0	2	2	3	6	13	Lyallpur.

† Data not available.

(R) Register not received.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION	Height of bar. cistern above M.S.L. in feet	Pressure at station level in millibar: Mean 0300 hrs. G. M. T.	Pressure at station level in millibar: Departure from normal	Pressure at station level in millibar: Mean 1200 hrs. G. M. T.	Pressure at M. S. L.: Mean 0300 hrs. G. M. T.	Pressure at M. S. L.: Mean 1200 hrs. G. M. T.	Maximum temperature °F: Mean	Maximum temperature °F: Departure from normal	Maximum temperature °F: Highest	Maximum temperature °F: Date	Minimum temperature °F: Mean	Minimum temperature °F: Departure from normal	Minimum temperature °F: Lowest	Minimum temperature °F: Date	Dry bulb temperature °F: Mean 0300 hrs. G. M. T.	Dry bulb temperature °F: Mean 1200 hrs. G. M. T.	Wet bulb temperature °F: Mean 0300 hrs. G. M. T.	Wet bulb temperature °F: Mean 1200 hrs. G. M. T.	Vapour pressure in millibars: Mean 0300 hrs. G. M. T.	Vapour pressure in millibars: Departure from normal	Vapour pressure in millibars: Mean 1200 hrs. G. M. T.	Relative humidity %: Mean 0300 hrs. G. M. T.	Relative humidity %: Departure from normal	Relative humidity %: Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SOUTH PUNJAB																								
Montgomery ...	558	995.7	−2.5	993.8	1016.2	1013.6	67.9	−0.2	75	1, 17	44.3	+2.6	35	4	47.4	64.2	44.1	54.0	8.4	+0.5	9.7	77	0	47
Multan (R) ...	413																							
Fort Abbas ...	475	998.5		996.2	1016.0	1013.2	71.9		79	30	(b) 41.7		31	4	47.9	66.7	44.9	56.6	8.8		11.2	75		51
Bahawalpur ...	384	1001.7	−3.3	999.4	1015.9	1013.5	69.3	−0.6	76	17	42.7	+2.4	34	5	44.9	66.2	43.3	55.6	8.8	+1.2	10.2	86	+13	47
Khanpur ...	297	1005.8	−2.4	1003.3	1016.8	1013.7	70.6	−1.3	76	5 days	42.9	+3.0	34	4	47.5	66.8	44.1	54.6	8.4	+1.8	9.1	79	+13	42
N.-W. F.P. (Upper)																								
Chakdara ...	2,225	938.2		936.4	1018.6	1014.7	55.4		64	9	39.3		33	6	41.8	52.9	39.9	46.2	7.6		7.7	85		61
Peshawar ...	1,175	974.9	−3.1	973.3	1017.9	1015.2	61.4	−1.6	70	9	40.0	−0.4	33	3	44.2	57.5	40.3	48.6	6.9	+0.5	7.6	68	−3	49
Landikotal ...	3,503	896.7		895.7	904.7	899.7	52.1		58	5 days					40.3	48.5	36.9	41.4	5.9		6.3	73		54
N.-W. F. P. (Lower)																								
Bannu ...	1,264	970.4		969.0	1016.5	1013.7	63.2	−2.3	72	9	42.8	+2.9	36	30	45.8	60.7	41.7	51.4	6.9	+0.8	9.2	66	+6	50
Miranshah ...	3,026	911.1		908.9	900.1	898.6	57.9	+1.2	67	9	36.8	+1.1	30	3	39.7	55.6	35.9	46.2	5.7	+0.9	6.9	70	+13	50
D. I. Khan ...	579	995.6	−2.6	993.5	1018.4	1014.5	65.3	−2.7	73	11	41.0	+0.7	33	4, 5, 6	44.7	63.2	40.3	52.6	6.4	−0.6	8.7	66	−5	47
BALUCHISTAN (North)																								
Fort Sandeman ...	4,614	859.6	−2.1	857.9	898.3	898.2	53.3	−1.4	64	11, 12	30.1	−0.5	22	31	34.5	51.1	30.1	41.1	4.0	−1.0	4.7	66	−11	46
Hindubagh ...	5,950	819.6		817.8	797.1	795.4	51.9		63	1, 2	25.3		12	31	29.2	45.9	28.2	39.3	4.8		5.9	88		59
Loralai ...	4,699	855.3		854.2	899.9	897.0	55.4		64	13	27.8		19	2, 3, 4	31.7	50.9	29.4	41.7	4.7		5.3	73		45
Sibi ...	441	1001.4	−0.9	999.1	1049.7	1045.7	69.5	−0.6	76	18	43.4	+1.4	34	5	46.5	67.1	41.3	52.5	6.7	+1.2	7.0	60	+10	31
Quetta ...	5,490	831.7	−3.1	828.7	794.1	792.3	51.1	+0.9	64	12	27.8	+0.3	12	2	32.7	48.3	30.8	41.7	5.1	+0.2	6.3	83	+5	59
Quetta (Samungli) ...	5,307	841.4		838.6	794.8	795.0	52.2		66	12	26.1		10	3	30.9	49.1	28.5	42.1	4.4		6.6	74		59
Chaman ...	4,311	869.5	−2.1	868.7	901.2	899.5	55.7	+3.3	70	24	35.1	+0.6	24	2, 31	40.0	53.3	35.3	43.4	5.5	−0.6	6.8	63	−3	51
Nushki ...	3,412	902.2		902.0	903.8	903.8	62.1		73	9, 10	42.9		27	31	47.0	58.2	39.5	45.9	4.5		5.0	53		38
Kalat ...	6,616	798.3	−2.1	796.9	795.6	794.3	50.5	+1.0	63	10	26.2	+0.3	7	19	30.1	47.3	29.3	42.2	5.2	+0.8	7.1	93	+23	70
Dalbandin ...	2,785	918.9	−2.7	916.6	899.4	898.1	63.1	+1.6	74	10, 11	33.7	−1.6	21	3	39.5	60.2	36.2	49.0	6.1	−0.8	7.4	74	+1	44
Nokkundi ...	2,229	936.5		934.6	1016.5	1011.3	66.2	+2.8	77	8	41.5	+3.2	29	30	44.3	63.0	36.3	47.8	4.0	−1.5	5.2	45	−8	28
BALUCHISTAN (South)																								
Las Bela ...	292	1005.0	−2.8	1001.8	1014.7	1011.5	74.8	−3.3	85	1					58.2	73.5	51.8	64.5	10.1	+0.4	16.3	61	−5	58
Ormara ...	15	1014.6		1012.5	1015.1	1013.0	74.4	+0.6	79	18	55.6	−0.9	47	30, 31	59.6	71.7	56.4	62.8	13.8	+0.7	15.6	81	+5	59
Pasni ...	10	1014.4	−3.4	1012.0	1015.5	1012.3	75.4	+0.9	81	1	53.1	−1.6	42	2, 3	57.7	70.7	55.4	63.2	14.2	+0.8	16.6	85	+8	65
Turbat ...	510	999.2		995.9	1017.4	1013.9	75.1		82	17	50.5		34	31	56.3	74.3	51.1	59.7	10.5		11.1	65		39
Panjgur ...	3,177	905.4	−2.5	903.7	899.4	898.0	63.1	+0.2	73	1					40.6	60.5	37.4	47.5	6.5	−0.4	6.2	72	−2	35
SIND (Upper)																								
Reti ...	280	1006.6		1004.9	1017.1	1014.8	(c) 71.3		79	1	36.9		30	26	43.9	68.2	40.2	62.2	6.8		16.3	72		38
Jacobabad ...	183	1009.4	−2.5	1007.1	1016.3	1013.6	70.9	−0.5	77	1, 18	45.0	+0.1	37	31	48.0	68.7	42.0	53.7	6.4	−1.8	6.8	56	−14	30
Sukkur ...	221	1007.6	−3.1	1005.3	1015.8	1013.1					45.4	+0.4	37	31	48.3	68.5	44.4	53.9	8.0	+0.3	8.0	71	+10	34
Pad Idan ...	153	1010.7		1008.1	1016.4	1013.5	72.3		83	18	41.4		33	2, 3	44.0	70.5	42.2	56.5	8.2		9.3	84		38

(R) Register not received. (b) Mean of 29 days. (c) Mean of 28 days.

3000 HRS. G. M. T. AND 1200 HRS. G. M. T. ~~FOR THE MONTH OF~~ JANUARY, 1950.

Cloud Amount (Eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction—Number of Winds from :-																					
											0300 hrs. G.M.T.										1200 hrs. G.M.T.											
Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm		N	NE	E	SE	S	SW	W	NW	Calm		STATION
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45		46	47	48	49	50	51	52	53	54		55
			"	"	"																											SOUTH PUNJAB.
3.0	+0.6	3.5	1.52	+1.06	0.84	18	3	+1.7	1.6	—0.3	8	3	0	0	0	2	0	3	15		0	1	0	2	0	5	3	10	10		Montgomery.
																																Multan. (R)
2.9		3.5	0.55		0.39	20	2		3.3		3	4	9	3	2	1	1	1	7		14	5	0	0	0	3	5	2	2		Fort Abbas.
2.6	0.0	2.3	0.26	+0.10	0.16	29	2	+1.4	1.7	0.0	2	5	0	0	1	1	0	0	22		7	8	0	0	0	2	0	0	14		Bahawalpur.
2.5	+0.3	3.0	0.38	+0.15	0.16	28	2	+1.2	3.5	+0.1	14	7	4	0	1	1	0	2	2		8	11	1	0	2	2	2	2	3		Khanpur.
																																N. W. F. P. (Upper)
4.9		5.6	9.04		1.95	17	10		3.0		0	0	0	0	0	21	0	9	1		2	2	2	1	1	13	0	1	9		Chakdara.
4.7	+0.1	3.2	2.59	+1.15	0.71	29	6	+3.1	2.0	+0.8	0	0	0	3	6	4	0	0	18		4	2	0	0	0	0	0	2	23		Peshawar.
4.0		4.9	4.14		0.90	29	7		2.2		7	3	2	0	0	0	1	1	17		7	2	1	0	0	0	3	4	14		Landikotal.
																																N. W. F. P. (Lower)
4.8	+2.4	4.0	1.83	+1.31	0.66	29	6	+4.8	2.0		0	0	0	0	0	1	12	6	12		0	0	1	11	7	1	1	2	8		Bannu.
3.7	+1.1	3.7	2.49	+1.69	0.84	29	5	+3.1	4.0	+0.4	2	3	0	0	0	0	2	4	20		0	1	10	11	1	0	1	3	4		Miranshah.
2.8	+0.2	1.7	1.91	+1.46	0.98	29	4	+2.8	2.2	+1.2	6	5	0	0	0	0	7	5	12		4	4	0	0	1	0	2	4	16		D. I. Khan.
																																BALUCHISTAN (North)
2.1	—0.7	2.3	1.16	+0.44	0.50	18	2	—0.1	1.1	—0.5	0	0	0	0	0	0	1	0	30		0	0	0	0	0	2	1	1	27		Fort Sandeman
3.1		2.7	4.40		1.82	29	5		3.5		0	0	0	0	0	2	7	0	22		1	1	8	0	1	9	1	0	10		Hindubagh.
3.4		2.5	2.88		1.10	18	4		5.0		0	0	0	1	0	1	16	0	13		1	0	5	6	4	1	2	1	11		Loralai.
3.3	+0.7	2.5	2.51	+2.07	1.14	27	4	+2.9	1.8	—0.3	0	1	0	0	0	0	1	4	25		0	1	0	7	3	4	5	2	9		Sibi.
3.4	—0.1	3.5	2.98	~~+1.04~~	1.40	28	5	~~+0.1~~	5.9	+3.7	3	2	1	7	6	5	2	0	5		8	3	0	0	7	7	1	5	0		Quetta.
3.1		3.1	3.86		1.58	28	7		6.9		0	1	6	11	2	0	5	1	5		2	0	2	7	1	4	4	9	2		Quetta (Samungli).
3.4	0.0	3.8	4.13	+2.49	1.57	29	6	+1.6			0	1	6	6	6	1	1	0	10		1	1	1	1	3	6	6	3	9		Chaman.
3.2		3.2	3.04		1.26	18	4		5.9	~~+2.0~~	0	2	16	5	2	2	1	2	1		3	1	0	0	6	8	8	5	0		Nushki.
3.3	+0.3	3.2	6.97	+5.66	2.70	18	5	+1.5	4.8	+1.1	0	1	0	20	2	5	0	3	0		1	3	0	1	5	10	0	11	0		Kalat.
2.2	—0.8	2.1	3.22	+2.34	1.85	28	4	+1.9	3.6	+0.8	1	1	1	0	2	1	2	0	23		2	0	6	3	3	6	4	0	7		Dalbandin.
2.2	—0.4	2.4	2.68	+1.79	2.11	28	2	0	6.3	+1.4	11	6	4	0	1	0	0	1	8		1	0	2	3	6	2	4	4	9		Nokkundi.
																																BALUCHISTAN (South)
0.9	—1.3	0.7	0.00	—0.26	0.00		0	—1.0	0.6	—1.1	0	0	0	0	0	0	0	1	30		0	0	0	1	0	1	0	0	29		Las Bela.
2.4	—0.2	2.3	0.54	—1.01	0.31	18	3	+1.2	5.1	+1.1	0	2	1	4	0	1	5	0	18		0	0	4	5	2	8	12	0	0		Ormara.
2.5	+0.2	1.0	0.22	—1.73	0.19	28	1	—1.3	6.7	+1.7	7	2	0	1	4	4	3	6	4		4	1	2	4	5	8	5	1	1		Pasni.
0.0		0.0	0.00		0.00		0		4.4		3	6	6	2	2	1	0	2	9		1	4	1	0	0	11	7	2	5		Turbat.
3.9	+1.2	3.6	1.03	+0.20	0.91	29	2	+0.1	5.5	+1.1	4	14	9	0	0	1	0	0	3		7	1	0	0	1	18	3	1	0		Panjgur.
																																SIND (Upper)
2.1		2.3	0.00		0.00		0		3.7		6	12	2	0	0	1	1	3	6		8	10	3	0	0	1	8	1	0		Reti.
3.1	+1.0	2.9	0.41	+0.18	0.38	29	1	+0.3	3.7	+1.1	3	2	3	4	0	1	4	8	6		0	3	3	3	2	0	6	8	6		Jacobabad.
3.4	+1.8	2.9	0.06	—0.12	0.05	29	0	—0.4	2.3	—0.1	4	8	6	8	1	1	1	0	2		5	13	4	2	0	2	2	2	1		Sukkur.
3.3		2.6	0.22	~~0.00~~	0.22	19	1		2.9		13	2	0	0	0	0	1	5	10		12	4	0	0	5	1	2	4	3		Pad Idan.

b Mean of 29 days.

(R) Register not received.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION	Height of bar. cistern above M. S. L. in feet	Pressure at station level in millibars: Mean 0300 hrs. G.M.T.	Pressure at station level in millibars: Departure from normal	Pressure at station level in millibars: Mean 1200 hrs. G.M.T.	Pressure at M. S. L.: Mean 0300 hrs G.M.T.	Pressure at M. S. L.: Mean 1200 hrs. G.M.T.	Maximum temperature °F: Mean	Maximum temperature °F: Departure from normal	Maximum temperature °F: Highest	Maximum temperature °F: Date	Minimum temperature °F: Mean	Minimum temperature °F: Departure from normal	Minimum temperature °F: Lowest	Minimum temperature °F: Date	Dry bulb temperature °F: Mean 0300 hrs. G.M.T.	Dry bulb temperature °F: Mean 1200 hrs. G.M.T.	Wet bulb temperature °F: Mean 0300 hrs. G.M.T.	Wet bulb temperature °F: Mean 1200 hrs. G.M.T.	Vapour pressure millibars: Mean 0300 hrs. G.M.T.	Vapour pressure millibars: Departure from normal	Vapour pressure millibars: Mean 1200 hrs. G.M.T.	Relative humidity %: Mean 0300 hrs. G.M.T.	Relative humidity %: Departure from normal	Relative humidity %: Mean 1200 hrs. G.M.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SIND (Lower)																								
Umarkot ...	55	1012.1		1009.7	1014.1	1011.7					47.3		38	5	54.3	75.8	50.3	63.0	10.5		14.1	72		45
Hyderabad ...	96	1012.1	−2.7	1009.8	1015.6	1013.3	76.4	+0.6	88	1	51.5	+0.9	41	2	54.0	73.6	49.5	57.7	10.1	+1.7	9.3	70	+10	32
Karachi (Drigh Road)	73	1012.8		1010.5	1015.5	1013.1	76.8		82	1, 12	50.9		42	6	55.7	73.2	50.6	61.1	9.7		11.9	67		47
Karachi (Manora) ...	13	1014.7	−2.7	1012.6	1015.2	1013.1	75.7	+0.2	81	12	52.3	+0.9	53	5, 22, 23	61.1	72.5	54.4	62.3	11.6	+1.0	14.8	63	+1	54
Badin ...	31	1014.4	−2.2	1011.3	1015.7	1012.3	79.8	+3.5	90	12	48.4	+1.2	38	4, 5	64.1	76.4	49.6	59.4	10.1	+2.2	21.1	67	+9	34
HILL STATIONS (excluding Kashmir and Baluchistan)																								
Murree ...	7,113	782.4	−2.0	781.8	794.6	793.9	42.5	−2.7	52	13	31.9	+1.2	18	2	35.9	37.0	32.5	33.8	4.9	+0.2	5.0	72	+12	70
Cherat ...	4,272	869.6	−2.7	868.5	899.8	899.8	48.5	−0.7	54	11, 13, 14	39.5	+0.6	31	3	42.4	45.7	35.9	38.2	4.3	−0.5	4.5	52	−1	46
Drosh ...	4,806	856.1		854.1	904.2	901.4	43.5	−2.2	51	6	32.2	+0.8	26	2	33.8	41.4	31.8	35.3	5.4	+0.1	4.6	80	+4	54
Parachinar ...	5,673	826.2	−1.7	825.2	794.4	794.2	47.5	−2.3	57	11	30.3	+1.7	17	30	32.1	43.3	29.4	37.1	4.6	−0.3	5.1	77	+8	59
Wana ...	4,456						52.0	−1.3	61	11	27.7	+0.9	20	3, 31	31.5	48.2	29.3	39.4	4.6	−0.3	4.7	79	−1	44
AFGHANISTAN																								
Jalalabad (R) ...	1,950																							
Kabul ...	5,955	819.5		818.6	797.6	797.0	37.5	+0.3	48	15	21.1	+1.9	1	31	24.4	34.4	22.6	30.6	3.4	+0.2	4.5	78	+5	69
Kandahar ...	3,462	904.5		902.3	908.2	905.9	58.1		66	11	31.8		18	3, 4	36.3	54.5	34.8	50.3	6.3		10.7	87		75
IRAN																								
Jask (R) ...	13																							
ARABIA																								
Muscat ...	15	1014.8		1012.8	1015.3	1013.3	73.8	−1.5	89	28	64.7	−1.9	60	29, 30	66.3	71.4	59.1	63.0	14.5	−1.9	15.5	65		61
Kuwait ...	16	1019.6		1016.4	1020.1	1016.9	58.9		66	5, 6, 7	43.1		36	18	47.0	55.8	42.8	48.8	4.7		10.6	69		55

Cloud Amount (Eights of sky)			Precipitation						Wind Velocity knots		Wind Direction—Number of Winds from :—																			STATION
											0300 hrs. G M. T.									1200 hrs. G. M. T.										
Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	
			"	"	"																									SIND (Lower)
0.2		0.4	0.00		0.00		0		4.1		12	3	6	1	5	2	1	0	1	15	1	0	0	2	3	5	5	0	Umarkot.
3.0	+1.2	1.3	0.00	−0.17	0.00		0	−0.5	4.0	+0.4	17	2	1	0	0	8	0	0	3	14	2	2	0	5	8	0	0	0	Hyderabad.
3.4		2.1	0.60		0.50	26	1		5.6		7	7	2	0	1	1	1	2	10	1	6	2	0	5	8	8	1	0	Karachi (Drigh Road).
3.3	+1.0	2.4	0.46	0.00	0.46	26	1	0	6.3	+0.9	4	14	5	0	0	2	3	0	3	0	0	5	3	2	10	9	1	1	Karachi (Manora)
0.5	−1.2	0.4	0.00	−0.15	0.00		0	−0.4	3.3		11	4	0	0	2	3	2	2	7	14	5	0	0	0	4	5	1	2	Badin.
																														HILL STATIONS (excluding Kashmir and Baluchistan)
5.5	+1.7	6.0	9.71	+5.92	2.40	19	11	+4.9	9.4	+4.4	0	3	13	12	0	0	0	0	3	0	4	11	9	0	0	0	0	7	Murree.
3.7	+0.4	4.4	4.78	+2.45	1.69	29	7	+3.5	11.7	+2.7	29	0	0	0	2	0	0	0	0	23	0	0	0	8	0	0	0	0	Cherat.
6.2	+2.4	6.4	5.27	+3.90	0.95	29	11	+7.6	2.9	+0.4	0	1	3	2	0	0	0	1	24	0	2	4	8	0	5	1	0	11	Drosh.
4.0	+0.7	4.8	5.64	+3.61	1.44	29	10	+5.4	1.9	+0.2	4	2	1	0	0	0	1	0	23	0	1	4	7	1	0	1	4	13	Parachinar.
2.0	−0.3	2.1							1.6		0	0	0	0	1	4	3	1	22	0	0	0	11	8	3	2	1	6	Wana.
																														AFGHANISTAN
																														Jalalabad (R).
5.7	+2.0	5.2	3.94	+2.65	1.27	29	7	+3.9	3.0	−0.1	2	1	0	0	2	4	8	6	8	4	2	0	1	3	7	5	2	7	Kabul.
3.3		2.8	4.24		1.82	28	6		2.6		0	5	0	0	0	4	0	0	22	0	4	0	3	0	6	0	0	18	Kandahar.
																														IRAN
																														Jask. (R)
																														ARABIA.
1.4 (a)	−1.1	0.4	0.65 (a)	−0.33	0.48	18	2	+0.6	2.0 (d)	+1.5	1	0	0	2	1	0	7	4	16	0	2	0	0	1	1	1	19	7	Muscat.
1.8		1.9	0.36		0.26	27	2		7.0		1	0	0	2	0	3	3	17	3	2	0	1	7	0	0	3	12	4	Kuwait.

(R) Register not received. (a) Mean of 30 days. (d) Mean of 27 days.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS.
January 1950

STATION	Maximum temperature °F				Minimum temperature °F				Mean dry bulb temperature 0300 hrs. G.M.T. °F	Mean wet bulb temperature 0300 hrs. G.M.T. °F	Vapour Pressure, inches millibars		Relative humidity %		Mean cloud amount 0300 hrs. G.M.T.	Precipitation						Wind	
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date			Mean 0300 hrs. G.M.T	Departure from normal	Mean 0300 hrs. G.M.T.	Departure from normal		Total of the Month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more.	Departure from normal	Resultant direction 0300 hrs. G.M.T.	Velocity knots
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
																"	"	"					
EAST PAKISTAN (*North*)																							
Pabna	80.5	+1.4	85	3					65.0	59.3	14.9	+0.4	71	−6		0.00	−0.40	0.00		0	−0.9		
KASHMIR—																							
Jammu *																							
Kargil *																							

* Data not available.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 5TH CLASS STATIONS
January 1950

DIVISION	STATION	PRECIPITATION					
		Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal
1	2	3	4	5	6	7	8
		"	"	"			
EAST PAKISTAN (*North*)	**Rajshahi** (R) ...						
	Rangpur ...	0.00	−0.34	0.00		0	−0.8
KASHMIR	**Sonamarg** * ...						
	Gurez * ...						
BALUCHISTAN (*North*)	**Harnai** ...	4.77	+3.88	1.45	28	5	+3.0

(R) Register not received. * Data not available

PAKISTAN WEATHER REVIEW, 1950

Monthly Weather Report

FEBRUARY

Published by the authority of the Government of Pakistan

Chief features :— (1) An intense cold wave over West and East Pakistan during the second week.
(2) Occurrence of violent thundersqualls in the Southern districts of East Pakistan on the night of 2nd.

WEST PAKISTAN : Three active western disturbances, with their secondaries, affected West Pakistan during the first half of the month. The first western disturbance appeared over Afghanistan and adjoining northeast Baluchistan on the 4th and moved away northeastwards across the north Punjab and Kashmir by the 5th. Its secondary appeared over Baluchistan on the 5th, and moved over to the north Punjab on the 6th, where it became occluded on the 7th. In association with the above system, a spell of wet weather occurred over the Punjab and Baluchistan.

The second western disturbance approached west Baluchistan on the 6th and moved northeastwards, through the North-West Frontier Province, into the north Punjab and Kashmir by the 8th. It induced a secondary low over upper Sind and the adjoining south Punjab. The secondary moved into Rajputana on the 8th. The system was responsible for fairly widespread rain/snow falls over West Pakistan outside Sind.

The third and the most active western disturbance of the month approached northeast Baluchistan on the 8th, moved into the north Punjab and Kashmir, persisted in an occluded stage over Kashmir and the adjoining areas on the 9th and finally became unimportant on the 10th. In its wake, there occurred on the 9th, an influx of polar continental air into north Baluchistan and the lower North-West Frontier Province, where temperatures went down 10° to 20°F below the freezing point. The intense cold wave then swept over the whole of West Pakistan on the 10th, lowering night temperatures over the region outside Sind and Mekran coasts, generally 10° to 15°F below freezing point. Night temperatures began to rise in the North-West Frontier Province and Baluchistan on the 11th, and by 13th, they were generally above the freezing point in West Pakistan but were still markedly below normal over the region.

According to press reports, Quetta and Murree remained frozen for more than 48 hours. The severe cold spell, it was also reported, claimed a toll of 20 lives in Quetta and Ziarat and about 100 in Lahore alone.

Western disturbances affecting the West Pakistan during the second half of the month, were feeble and except for isolated showers in north Baluchistan on the 20th, weather continued dry over West Pakistan.

Some of the noteworthy amounts of rainfall recorded during the month were :—Quetta 1½" and Harnai 1" on the 6th; Drosh 1½", Cherat and Parachinar 1" each on the 8th; Murree 3". Sialkot and Chakdara 1½" each and Jhelum 1" on the 9th.

The mean actual rainfall during the month, was in slight defect in north Baluchistan, in moderate defect in the Punjab and lower North-West Frontier Province and in large defect elsewhere. Averaged over the plains of West Pakistan, the rainfall was in large defect. The mean Maximum temperature was normal in lower Sind and below normal elsewhere. The mean minimum temperature was 4° to 7°F below normal over West Pakistan. Mean relative humidity was in defect in the North-West Frontier Province, south Baluchistan and lower Sind and in excess in upper Sind. Skies were less clouded than usual in the south Punjab, the upper North-West Frontier Province, south Baluchistan and lower Sind.

EAST PAKISTAN : A low pressure wave moved across East Pakistan at the beginning of the month, and caused fairly widespread thundershowers accompanied by violent squalls in the Southern districts of East Pakistan, on the night of the 2nd. Another spell of thunderstorm activity with locally heavy showers also occurred, in association with the movement of a low across Darjeeling and Assam hills on the 7th.

In association with the eastward passage of a secondary western disturbance across East Pakistan, a third spell of wet weather occurred there, on the 10th and 11th, followed by a steep fall in night temperatures.

The passage of the last 'low' of the month, across East Pakistan, gave rise to pronounced thunderstorm activity over the region during the period 22nd to 24th.

Some of the noteworthy amounts of rainfall recorded during the month were :—Khulna 1" on the 3rd; Barisal 2" and Chittagong 1" on the 7th; Cox's Bazar 1" on the 8th; Dinajpur 1" on the 10th; Srimangal 1" on the 11th; Srimangal 1½" and Brahmanbaria 1" on the 23rd; Rangpur 2" and Dinajpur 1½" on the 24th.

The mean actual rainfall of the month was in large excess in the Eastern and Northern sub-divisions and in moderate excess in the Deltaic sub-division. Averaged over the region as a whole, the rainfall was in large excess. The mean maximum and minimum temperatures and ralative humidity were normal. Skies were less clouded than usual in the Northern sub-division of East Pakistan.

Table I contains the Divisional and Sub-divisional means of rainfall, temperature, hnmidity and cloud for the 5 chief divisions and 12 sub-divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—FEBUARY 1950.

DIVISION.	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour Pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb	%	
1. East Pakistan	1·56	0·96	+0·60	+ 63	−0·4	+0·7	+0·3	+ 1	−0·1
Mean of East Pakistan	1·56	0·96	+0·60	+ 63	−0·4	+0·7	+0·3	+ 1	−0·1
2. Punjab	0·52	0·86	−0·34	− 40	−3·8	−4·4	−1·5	+ 1	−0·8
3. North-West Frontier Province ...	0·62	1·23	−0·61	− 50	−3·4	−4·1	−1·9	−10	−0·5
4. Baluchistan	0·67	1·16	−0·49	− 43	−5·8	−6·0	−1·8	0	−0·6
5. Sind	0·00	0·33	−0·33	−100	−3·2	−5·3	−3·1	− 4	−0·9
Mean of West Pakistan excluding Baluchistan.	0·36	0·74	−0·38	− 51	−3·5	−4·7	−2·1	− 3	−0·8
SUB-DIVISION									
1. East Pakistan (North)... ...	1·31	0·76	+0·55	+ 72	+0·6	−0·6	+0·1	− 4	−0·5
2. East Pakistan (East)	1·85	1·03	+0·82	+ 80	−1·2	+0·9	+0·2	+ 3	+0·2
3. East Pakistan (Deltaic) ...	1·43	1·09	+0·34	+ 31	+0·4	+1·0	+0·7	+ 1	−0·4
4. Kashmir*									
5. North Punjab	0·74	1·23	−0·49	− 40	−3·3	−1·1	−1·1	+ 4	−0·6
6. South Punjab	0·22	0·35	−0·13	− 37	−4·4	−5·0	−2·3	− 2	−1·0
7. North West Frontier Province (Upper)	0·65	1·53	−0·88	− 58	−2·3	−4·7	−1·9	− 22	−1·9
8. North-West Frontier Province (Lower)	0·61	1·14	−0·53	− 46	−3·7	−4·0	−1·9	− 9	−0·1
9. Baluchistan (North)	0·95	1·10	−0·15	− 14	−6·1	−5·8	−1·3	+ 4	−0·3
10. Baluchistan (South)	0·03	1·34	−1·31	− 98	−5·2	−7·1	−2·8	−11	−1·3
11. Sind (Upper)	0·00	0·31	−0·31	−100	−5·1	−5·9	−1·5	+ 6	−0·4
12. Sind (Lower)	0·00	0·35	−0·35	−100	−1·9	−4·9	−4·2	−11	−1·2

* Data incomplete.

TALBE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION	Height of bar. cistern above M.S.L. in feet.	Pressure at station level in millibars			Pressure at M. S. L.		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure millibars			Relative humidity %		
		Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
EAST PAKISTAN (North)																								
Sirajganj ...	48	1012.0		1008.3	1013.8	1010.0	80.3		88	27	54.9		41	12	65.2	71.5	60.5	64.0	16.0		16.6	75		66
Bogra ...	63	1011.9	—1.1	1008.3	1014.1	1010.5	80.6	+0.3	90	21	55.3	+0.4	43	13	64.7	75.1	59.0	62.0	14.9	+0.2	13.1	69	—3	46
Dinajpur ...	123	1010.1	—0.7	1006.7	1014.4	1011.0	80.2	+0.9	88	22	51.7	—1.6	40	12	63.6	73.7	58.1	62.2	14.3	+0.3	14.1	70	—3	50
EAST PAKISTAN (East)																								
Cox's Bazar ...	38	1012.4	—1.2	1009.8	1013.7	1011.1	80.6	—1.5	87	4	60.1	+0.6	50	13	70.7	73.8	64.5	66.6	18.4	0.0	19.4	70	+1	67
Chittagong ...	87	1011.1	—1.5	1007.9	1014.2	1011.0	81.2	—1.1	88	28	59.7	+1.0	47	13, 14	69.6	73.0	63.2	65.9	17.1	—0.2	18.7	68	—3	67
Comilla ...	29	1013.1	—1.4	1010.2	1014.1	1011.2	81.2	—1.0	89	21, 22	59.9	+2.4	46	12, 13, 14	67.5	75.4	63.2	66.5	17.3	—0.4	17.8	78	+7	61
Narayanganj (R) ...	26																							
Brahmanbaria ...	32	1012.9		1009.5	1014.1	1010.6	80.4	—2.3	90	22	58.8	+3.3	45	12, 13	68.3	73.9	62.9	65.0	16.8	+0.9	17.0	74	+7	60
Srimangal ...	69	1011.4	—1.6	1008.3	1013.9	1010.8	80.1	—2.6	88	21	53.2	+1.3	39	14	64.4	71.0	61.2	64.3	17.0	+1.4	17.8	82	+5	69
Mymensingh ...	62	1011.2	—2.2	1008.2	1013.4	1010.4	80.7	+1.1	87	22	53.6	—3.1	46	16	62.3	69.9	58.7	61.0	15.2	—0.3	14.3	78	+4	57
EAST PAKISTAN (Deltaic)																								
Faridpur ...	46	1012.4	—1.1	1008.7	1014.0	1010.3	74.5	—5.6	84	21	57.0	+0.8	40	13	67.3	74.2	62.5	64.4	16.7	+0.4	15.9	74	0	58
Barisal ...	11	1013.3	—1.4	1010.3	1013.7	1010.7	81.9	0.0	88	3, 11, 20	62.9	+2.8	47	13	68.9	76.0	64.7	66.3	19.3	+0.8	17.9	79	+6	60
Khulna ...	16	1013.8	—1.0	1009.9	1014.4	1010.5	82.8	—0.2	91	20	60.3	+0.5	45	13	70.9	76.2	64.3	65.5	17.8	+1.3	16.7	68	+2	55
Jessore ...	26	1013.3	—1.3	1009.6	1014.2	1010.5	83.1	+1.3	92	21	55.3	—0.2	38	12	70.1	75.8	63.2	65.2	16.5	+0.1	16.7	66	—5	53
Satkhira (R) ...	16																							
KASHMIR																								
Srinagar † ...	5,205																							
Gulmarg † ...	8,709																							
Dras † ...	10,059																							
Leh † ...	11,529																							
Skardu † ...	7,505																							
Gilgit ...	4,890	854.3		851.9	904.7	901.9	47.7		57	27, 28	31.2		25	12	37.5	45.9	33.8	37.3	5.1		3.9	72		44
Misgar ...	10,190	694.6		691.9	698.4	695.6	32.8		44	26, 27, 28	14.0		3	12	14.4	28.1	11.7	21.5	1.6		2.0	60		38
NORTH PUNJAB																								
Lahore ...	702	990.0	—0.7	988.4	1015.9	1013.3	67.5	—4.6	80	28	42.1	—2.4	34	11	46.7	65.3	44.2	53.9	8.8	—0.9	9.1	81	+6	45
Sialkot ...	830	985.1	—1.1	983.5	1015.5	1012.8					43.9	—1.6	34	11	48.4	63.0	45.9	54.7	9.6	—1.0	11.4	81	—2	58
Jhelum ...	765	988.1		986.1	1016.2	1013.1	66.8		80	28	42.0		34	11	46.5	64.8	44.8	57.0	9.3		12.5	86		61
Rawalpindi ...	1,674	956.7	—0.6	950.0	1017.5	1012.1	63.4	—1.8	77	28	38.4	—3.3	30	10, 11	43.6	59.3	40.8	49.4	7.5	—1.0	8.1	79	+1	48
Khushab ...	616	992.9	—1.6	991.7	1016.0	1013.6	68.6	—2.7	84	28	37.8	—8.2	27	11	45.2	67.1	42.1	53.5	7.7	—0.6	7.3	76	+11	36
Lyallpur ...	605	993.1	—0.8	991.6	1015.6	1013.1	67.3	—4.0	80	28	40.3	—4.8	32	11	43.5	65.1	40.6	52.3	7.3	—2.0	7.6	77	+2	38

† Data not available. (R) Register not received.

0300 HRS G.M.T. AND 1200 HRS. G. M. T. FOR THE MONTH OF FEBRUARY 1950

Cloud Amount (Eighths of sky)			Precipitation.						Wind Velocity knots		Wind Direction—Number of Winds from :—																			
											0300 hrs. G. M. T.									1200 hrs. G. M. T.										STATION
Mean, 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date.	Days with 0.10" or more	Departure from normal	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm.		
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	
			"	"	"																									EAST PAKISTAN (North)
1.7		1.0	0.78	+0.04	0.40	24	2	+0.3	2.6		2	0	3	0	10	1	1	7	4	1	0	1	0	2	5	0	1	18	Sirajganj.
1.6	—0.3	1.4	1.02	+0.23	0.72	10	2	+0.4	2.2	+1.1	0	2	7	2	0	4	6	1	6	0	1	1	0	1	4	5	1	15	Bogra.
1.2	—0.7	1.2	1.78	+1.17	1.50	24	3	+1.7	1.3	—0.4	1	3	0	3	3	0	5	0	13	0	0	0	0	1	3	4	0	20	Dinajpur.
																														EAST PAKISTAN (East)
1.1	—0.4	0.5	2.96	+2.49	2.20	8	2	+1.1	1.8	—0.2	3	2	0	1	1	0	1	1	19	2	0	1	0	3	0	2	1	19	Cox's Bazar.
1.9	+0.1	1.0	1.54	+0.44	1.20	7	2	+0.7	3.7	—0.7	3	9	7	5	0	0	0	1	3	2	0	0	1	4	9	7	5	0	Chittagong.
2.2	0.0	1.5	1.09	—0.13	0.64	7	4	+2.1	2.7	+1.2	4	0	3	7	11	0	0	1	2	6	0	0	1	9	0	6	0	6	Comilla.
																														Narayanganj (R)
3.0	+0.7	0.9	1.93	+0.90	0.95	23	5	+3.1	2.6		2	1	4	2	13	1	1	0	4	2	2	1	1	1	1	2	0	18	Brahmanbaria.
2.8	+0.7	2.4	2.42	+0.92	1.43	23	2	—0.7	1.9	—0.1	1	0	1	1	5	2	0	0	18	0	0	0	0	2	2	7	0	17	Srimangal.
2.3	0.0	1.4	1.16	+0.30	0.65	10	3	+1.3	1.2	+0.2	0	0	1	15	0	0	0	0	12	0	0	0	8	0	0	0	0	20	Mymensingh.
																														EAST PAKISTAN (Deltaic)
2.0	0.0	1.7	0.57	—0.62	0.34	3	3	+0.9	3.2	+1.3	2	0	1	3	8	3	1	4	6	2	2	5	0	4	1	4	4	6	Faridpur.
2.3	+0.2	0.9	3.51	+2.57	2.36	7	4	+2.2	2.3	+0.9	2	0	0	1	5	1	1	3	15	0	1	0	1	4	1	2	2	15	Barisal.
1.5	—1.0	1.0	1.05	+0.12	0.89	3	2	—0.2	2.5	+0.4	1	1	1	1	1	2	3	3	15	0	0	1	1	6	2	0	1	17	Khulna.
1.5	—0.7	0.9	0.57	—0.73	0.34	3	2	0	2.6	+1.3	5	3	0	1	2	6	2	3	6	2	0	0	0	5	0	2	2	17	Jessore
																														Satkhira (R).
																														KASHMIR
																														Srinagar. †
																														Gulmarg †
																														Dras. †
																														Leh. †
																														Skardu. †
3.8		3.8	1.25		1.15	9	2		0.1		0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	28	Gilgit.
4.9		5.9	0.25		0.09	14	0		3.6		0	0	0	0	0	0	4	0	24	0	0	21	1	0	0	4	1	1	Misgar.
																														NORTH PUNJAB
2.9	—0.2	3.0	0.90	—0.07	0.47	9	2	—0.1	2.3	+0.8	3	0	0	1	0	0	3	3	18	2	0	1	1	0	0	8	8	8	Lahore.
3.0	+0.4	3.1							1.3	+0.1	2	4	0	1	1	1	0	4	15	0	0	1	1	1	1	5	4	15	Sialkot.
2.9		3.4	1.47		0.91	9	2		2.1		1	0	1	1	0	0	3	3	19	1	2	1	0	1	1	7	5	10	Jhelum.
2.8	—0.5	3.5	1.15	—1.33	0.70	8	2	—2.4	2.2	+0.4	1	1	0	0	2	1	3	0	20	0	2	0	0	1	3	13	3	6	Rawalpindi.
1.5	—1.5	2.2	0.60	—0.32	0.53	8	1	—1.1	2.6	—0.1	2	8	1	1	2	4	3	0	7	1	7	0	1	2	3	4	7	3	Khushab.
2.6	—1.2	2.8	0.31	—0.26	0.21	8	1	—0.6	1.3	—0.4	1	1	0	1	1	3	5	2	14	2	1	0	0	0	4	6	8	7	Lyallpur.

† Data not available.

(R) Register not received.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION	Height of bar. cistern above M.S.L. in feet	Pressure at station level in millibar: Mean 0300 hrs. G. M. T.	Pressure at station level in millibar: Departure from normal	Pressure at station level in millibar: Mean 1200 hrs. G. M. T.	Pressure at M. S. L.: Mean 0300 hrs. G. M. T.	Pressure at M. S. L.: Mean 1200 hrs. G. M. T.	Maximum temperature °F: Mean	Maximum temperature °F: Departure from normal	Maximum temperature °F: Highest	Maximum temperature °F: Date	Minimum temperature °F: Mean	Minimum temperature °F: Departure from normal	Minimum temperature °F: Lowest	Minimum temperature °F: Date	Dry bulb temperature °F: Mean 0300 hrs. G. M. T.	Dry bulb temperature °F: Mean 1200 hrs. G. M. T.	Wet bulb temperature °F: Mean 0300 hrs. G. M. T.	Wet bulb temperature °F: Mean 1200 hrs. G. M. T.	Vapour pressure millibars: Mean 0300 hrs. G. M. T.	Vapour pressure millibars: Departure from normal	Vapour pressure millibars: Mean 1200 hrs. G. M. T.	Relative humidity %: Mean 0300 hrs. G. M. T.	Relative humidity %: Departure from normal	Relative humidity %: Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SOUTH PUNJAB																								
Montgomery ...	558	995.4	−0.6	993.7	1015.9	1013.5	68.0	−4.5	80	27, 28	41.8	−4.6	33	11	47.0	66.8	42.8	51.9	7.5	−2.5	6.5	70	−8	31
Multan (R) ...	413																							
Fort Abbas ...	475	998.8		996.2	1016.3	1013.3	71.5		83	25	42.3		33	11	50.4	68.3	43.9	54.6	6.8		8.3	57		37
Bahawalpur ...	384	1002.0	+0.3	999.7	1016.6	1013.3	70.9	−4.7	83	27, 28	41.5	−5.4	30	10	44.6	69.3	40.8	53.8	6.9	−2.6	7.1	71	+4	31
Khanpur ...	297	1005.6	+0.8	1002.9	1016.7	1013.4	73.5	−4.0	87	25	41.8	−4.9	32	12	47.7	71.0	42.7	53.8	7.1	−1.8	6.5	64	−2	26
N.-W. F.P. (Upper)																								
Chakdara ...	2,225	937.9		935.6	1018.3	1012.8	59.5		74	28	38.0		28	9, 10	41.4	58.0	38.6	47.2	6.8		6.7	75		40
Peshawar ...	1,175	974.5	−1.6	972.3	1017.7	1013.7	63.9	−2.3	77	27, 28	39.3	−4.7	31	12	44.3	62.1	39.7	48.6	6.3	−1.9	5.6	64	−12	31
Landikotal ...	3,503	895.6		894.4	900.2	899.1	53.8		67	28					39.7	48.8	36.5	40.1	6.3		5.2	62		46
N.-W. F. P. (Lower)																								
Bannu ...	1,264	970.5		966.9	1016.1	1012.9	65.0	−3.6	79	28	42.9	−2.3	27	2	46.2	62.9	40.4	50.3	6.7	−2.4	6.5	57	−9	37
Miranshah ...	3,026	910.5		908.5	899.4	897.9	58.8	−2.3	72	27	36.5	−5.0	18	9	39.7	57.8	35.5	47.8	5.4	−0.7	7.0	66	−4	43
D. I. Khan ...	570	995.4	−0.7	993.5	1016.5	1013.6	66.3	−5.3	79	27	40.3	−4.6	30	11	45.3	62.6	39.9	49.5	6.0	−2.7	6.5	56	−15	33
BALUCHISTAN (North)																								
Fort Sandeman ...	4,614	860.1		858.2	902.0	898.5	53.8	−5.5	67	23, 28	30.1	−5.3	20	11, 12	34.0	52.5	30.1	41.3	4.2	−1.6	4.5	59	−15	40
Hindubagh ...	5,950	819.8		818.1	797.4	795.4	55.0		72	23	25.0		13	9	30.9	47.2	29.1	39.7	4.8		5.7	82		58
Loralai ...	4,699	855.2		854.2	899.9	896.6	53.9		65	27	27.5		20	10, 11	32.9	51.9	29.6	39.6	4.0		3.4	68		30
Sibi ...	441	1000.4	+1.0	998.3	1016.1	1013.9	69.0	−6.7	85	25	45.0	−4.7	35	11	49.1	68.3	41.9	51.4	5.8	−1.8	5.2	55	+4	22
Quetta ...	5,490	832.6	−1.0	828.7	795.1	793.3	47.4		64	28	27.4		13	9	34.7	46.2	33.0	41.6	5.8	+0.3	7.3	86	+11	71
Quetta (Samungli) ...	5,307	841.8		840.2	796.3	795.6	48.8		67	7	25.7		14	9	31.3	46.9	29.8	40.7	5.1		6.8	83		65
Chaman ...	4,311	870.9	+0.8	869.7	902.9	900.7	51.2	−6.1	70	28	31.8	−6.3	15	9	37.4	50.0	34.2	42.2	5.3	−0.8	6.2	74	+13	53
Nushki ...	3,412	903.9		903.4	905.5	901.2	57.6		77	28	38.2		20	9, 10	44.4	56.9	38.0	45.5	5.0		5.8	56		44
Kalat ...	6,616	799.1	−0.1	797.7	796.4	796.0	48.0	−4.8	62	22, 23	22.9	−8.3	2	20										
Dalbandin ...	2,785	921.2	+2.0	917.3	901.4	899.6	61.2	−6.3	78	28	33.4	−6.2	24	10	38.8	60.7	35.9	48.5	5.8	−1.5	6.7	76	+10	38
Nokkundi ...	2,229	938.5		936.2	1019.5	1013.3	65.2	−7.5	80	28	43.1	−3.9	15	11	44.4	64.7	37.3	47.6	4.7	−2.7	4.6	48	−1	23
BALUCHISTAN (South)																								
Las Bela ...	292	1006.2	+1.7	1003.8	1017.1	1013.1	78.5	−3.9	89	27					57.0	76.2	50.2	62.6	9.3	−3.6	13.2	56	−16	43
Ormara ...	15	1016.1		1013.4	1016.7	1013.9	74.4	−1.4	85	26, 27	53.1	−7.1	47	9, 17	57.8	72.1	63.6	62.2	13.3	−2.9	14.5	75	−7	55
Pasni (R) ...	10																							
Turbat ...	510	1000.5		997.5	1018.6	1015.3	73.1		89	28	50.0		31	2	56.4	73.4	48.6	57.9	8.1		9.4	53		37
Panjgur ...	3,177	906.3	+0.3	904.8	900.5	899.2	60.0	−8.0	75	28					39.2	60.0	36.0	47.6	5.8	−2.0	5.7	72		38
SIND (Upper)																								
Reti ...	280	1007.0		1004.4	1017.5	1014.4	74.0		86	2, 5, 27	39.1		27	11	38.9	64.9	34.8	50.4	5.0		6.1	56		27
Jacobabad ...	183	1009.6	+0.4	1007.1	1016.5	1013.6	73.4	−3.7	86	28	46.0	−4.5	38	1, 11	49.7	72.2	45.0	59.5	8.5	−0.6	11.6	67	+8	41
Sukkur ...	221	1007.9	+0.9	1005.4	1016.0	1013.2	72.1	−6.6	63	25, 27, 28	44.7	−7.3	36	10, 11	48.8	72.6	43.4	53.0	7.2	−2.8	4.7	62	+4	18
Pad Idan ...	153	1011.4		1008.2	1017.2	1013.5	75.2		87	8	39.5		29	11	44.2	73.5	40.7	54.7	7.0		6.3	71		22

(R) Register not received.

0300 HRS. G. M. T. AND 1200 HRS. G. M. T. FOR THE MONTH OF FEBRUARY, 1950.

Cloud Amount (Eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction - Number of Winds from :-																	STATION
											0300 hrs G.M.T.									1200 hrs. G.M.T								
Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
			"	"	"																								SOUTH PUNJAB
2.0	−0.4	1.9	0.37	−0.13	0.30	8	1	−0.5	1.7	−0.7	0	1	0	0	0	3	2	5	17	2	3	0	0	1	5	2	12	3	Montgomery.
																													Multan. (R)
1.7		1.5	0.17	—	0.17	8	1	—	4.3	—	5	2	5	0	4	0	5	3	4	12	3	0	0	0	1	2	8	2	Fort Abbas.
1.1	−1.5	1.4	0.10	−0.16	0.10	7	1	+0.2	1.9	−0.3	1	1	0	0	0	1	0	0	25	3	2	3	0	1	1	3	1	14	Bahawalpur.
1.3	−1.2	1.6	0.18	−0.11	0.12	7	1	+0.1	3.7	0.0	9	7	1	1	1	1	2	0	6	8	8	3	0	0	1	2	1	5	Khanpur.
																													N. W. F. P. (Upper)
3.0	—	3.0	3.99	—	1.84	8	4	—	3.0	—	12	1	0	0	0	1	0	13	1	2	3	0	1	4	6	0	0	12	Chakdara.
3.2	−1.9	3.1	0.65	−0.88	0.58	8	1	−2.3	2.5	+0.9	0	0	0	6	4	4	0	0	14	7	2	1	1	0	2	0	2	13	Peshawar.
2.5	—	1.5	0.15	—	0.10	8	1	—	1.8	—	4	1	3	0	0	0	0	3	17	5	4	4	0	0	0	0	7	8	Landikotal.
																													N. W. F. P. (Lower)
2.6	+0.1	2.1	0.46	−0.72	0.44	8	1	−1.1	2.3	--	0	0	0	0	0	0	15	6	7	0	0	4	13	4	0	1	0	6	Bannu.
2.6	0.0	2.6	0.85	−0.71	0.82	8	1	−3.1	5.0	+1.5	3	6	3	0	0	1	2	2	11	1	1	10	10	2	2	1	0	1	Miranshah.
2.3	−0.3	2.0	0.51	−0.16	0.42	8	1	−0.7	2.1	+0.9	2	1	0	1	0	0	6	8	10	2	2	0	0	0	1	4	2	17	D. I. Khan.
																													BALUCHISTAN (North)
1.7	−1.0	1.9	0.00	−1.08	0.00		0	−3.3	3.8	+1.6	0	0	0	0	1	0	0	0	27	0	2	0	0	0	3	0	3	20	Fort Sandeman.
2.6		2.5	1.68		0.55	7	4				0	0	0	0	0	10	15	3	0	1	0	4	0	1	14	6	2	0	Hindubagh.
2.0		1.8	0.36	−0.71	0.25	6	1	−1.6	4.5		1	0	0	0	0	0	17	4	6	0	2	3	2	9	0	5	1	6	Loralai.
2.0	−0.5	1.8	0.55	−0.32	0.45	6	1	−0.7	3.5	+1.1	3	2	0	0	0	0	2	5	16	1	2	4	3	1	5	5	2	5	Sibi.
3.1	−0.1	3.4	2.03		1.32	6	4		5.0	+2.1	4	4	0	5	7	5	1	2	0	5	5	0	2	6	3	2	5	0	Quetta.
3.0		3.0	2.13		1.23	6	6		6.3		1	2	4	4	1	4	5	0	7	1	0	2	2	2	2	7	9	3	Quetta (Samungli).
3.2	+0.1	2.7	1.42	−0.30	0.61	6	4	−0.4			0	1	5	5	1	4	0	1	11	4	4	1	1	1	3	7	5	2	Chaman.
2.5		2.3	1.42		0.49	7	4		9.6		0	2	15	3	1	1	2	0	4	3	1	0	1	3	6	9	4	1	Nushki.
3.6	+0.8	2.7	4.04	+2.65	2.30	20	5	+1.6	5.0	+0.6	0	1	1	8	3	5	0	4	6	2	0	0	2	1	10	0	12	1	Kalat.
1.7	−0.9	1.3	0.30	−0.66	0.20	5	2	−0.2	3.7	+0.2	1	1	0	0	0	0	3	1	22	1	4	5	1	2	6	6	0	3	Dalbandin.
1.8	−0.7	0.5	0.00	−0.40	0.00		0	−1.1	6.3	+0.6	14	1	5	0	0	0	0	4	4	1	0	3	3	1	1	1	6	12	Nokkundi.
																													BALUCHISTAN (South)
0.5	−1.6	0.6	0.00	−0.88	0.00		0	−2.0	2.7	+0.9	0	0	0	0	0	2	0	0	26	0	0	0	1	1	2	0	0	24	Las Bela.
0.9	−1.9	1.3	0.00	−2.19	0.00		0	−3.3	4.7	−0.8	0	3	2	1	1	0	2	2	17	0	0	1	4	5	9	5	2	2	Ormara.
																													Pasni. (R)
0.5		0.6	0.29		0.17	20	2		5.6		0	9	4	5	2	0	0	2	6	2	6	2	2	1	4	4	3	3	Turbat.
1.8	−0.3	2.0	0.08	−0.08	0.08	19	0	−1.9	4.7	0.0	4	9	7	1	1	0	1	1	4	5	1	0	0	2	9	3	8	0	Panjgur.
																													SIND (Upper)
1.2		0.9	0.00		0.00		0		4.4		3	11	1	1	0	2	3	5	2	1	10	2	1	0	2	4	7	1	Reti.
1.7	−0.3	1.5	0.00	−0.33	0.00		0	−0.9	4.5	+1.3	2	4	4	0	1	0	7	4	6	4	1	1	1	3	3	3	9	3	Jacobabad.
1.1	−0.5	1.9	0.00	−0.28	0.00		0	−0.8	2.9	+0.3	4	6	4	8	0	1	1	1	3	10	3	1	3	4	2	1	2	2	Sukkur.
1.1		1.1	0.00		0.00		0		3.9		5	2	0	0	0	3	2	4	12	12	2	1	1	3	1	1	6	1	Pad Idan.

(R) Register not received.

STATION	Height of bar. cistern above M. S. L. in feet	Pressure at station level in millibars			Pressure at M. S. L.		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure millibars			Relative humidity %		
		Mean 0800 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Mean 0300 hrs G.M.T.	Mean 1200 hrs. G.M.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0800 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0800 hrs. G.M.T.	Mean 1800 hrs. G.M.T.	Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SIND (Lower)																								
Umarkot ...	55	1012.3		1009.6	1014.2	1011.5					43.9		35	10, 11	52.5	77.4	45.7	59.0	7.7		8.8	53		28
Hyderabad ...	96	1013.0	+0.8	1010.0	1016.5	1013.4	77.7	—3.5	89	27	49.7	—4.8	38	11	53.7	76.8	45.8	55.8	7.0	—3.1	5.8	49	—10	20
Karachi (Drigh Road)	73	1013.6		1010.8	1016.3	1013.4	77.3		88	26, 28	49.6		38	11	53.5	74.7	46.7	57.8	7.6		8.8	55		30
Karachi (Manora) ...	13	1015.6	+0.4	1013.0	1016.1	1013.5	76.0	—0.9	88	28	56.4	—4.6	48	11	59.3	73.0	52.1	60.1	9.9	—4.6	11.9	59	—11	43
Badin ...	31	1014.4	+0.8	1011.4	1015.6	1012.1	81.2	—1.2	92	27	49.2	—5.3	38	2, 3	51.0	79.0	45.0	59.0	7.5	—4.9	8.1	56	—12	24
HILL STATIONS (excluding Kashmir and Baluchistan)																								
Murree ...	7,113	781.4	—2.0	781.2	793.6	793.2	43.3	—3.4	56	28	29.1	—2.0	11	10, 11	33.6	39.0	30.0	33.9	4.3	—0.6	4.8	71	+10	65
Cherat ...	4,272	869.9	—1.0	869.3	900.5	899.2	49.8	—2.1	64	28	37.4	—3.3	21	9, 10	41.1	48.5	34.1	39.4	3.9	—1.5	4.6	50	—6	44
Drosh ...	4,806	856.6		853.3	904.9	900.4	46.0	—3.0	61	25	30.1	—3.5	18	12	32.5	43.4	28.4	34.7	3.6	—1.7	3.4	62	—9	41
Parachinar ...	5,673	825.7	—1.0	824.3	793.8	793.5	49.6	—2.2	63	27, 28	26.1	—5.2	10	9	29.4	46.3	26.9	38.0	4.1	—0.9	4.8	78	+10	51
Wana ...	4,456						52.2	—5.9	66	25	26.9	—5.6	20	11	33.4	50.2	30.1	40.2	3.6	—2.0	4.0	77	+1	37
AFGHANISTAN																								
Jalalabad (R) ...	1,950																							
Kabul ...	5,955	820.3		818.6	797.7	796.7	33.0	—9.2	47	25, 27	8.3	—15.7	7	10	16.4	30.8	14.3	26.8	2.0	—1.3	3.6	67	—5	63
Kandahar ...	3,462	907.5		904.9	911.3	908.5	53.7		73	28	29.7		19	10	34.9	51.7	33.6	48.3	6.0		10.2	88		79
IRAN																								
Jask (R) ...	13																							
ARABIA																								
Muscat ...	15	1016.3		1014.5	1016.8	1015.0	70.7	—5.1	78	7, 8	62.5	—4.1	53	12	64.4	68.5	57.6	61.3	13.2		15.3	64		61
Kuwait (R) ...	16																							

Cloud Amount (Eights of sky)			Precipitation						Wind Velocity knots		Wind Direction—Number of Winds from :—																	STATION
											0300 hrs. G. M. T.									1200 hrs. G. M. T.								
Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
			"	"	"																								SIND (Lower)
			0.00		0.00		0		5.0		10	5	0	0	2	3	1	1	6	14	1	0	0	0	2	3	7	1	Umarkot.
0.7	—1.0	0.1	0.00	—0.24	0.00		0	—0.6	3.2	—0.3	21	2	0	0	0	1	2	2	0	12	10	1	0	2	2	1	0	0	Hyderabad.
0.9		0.8	0.00		0.00		0		5.1		12	5	1	0	0	1	1	1	7	0	5	2	2	1	10	5	2	1	Karachi (Drigh Road).
0.9	—1.2	0.6	0.00	—0.44	0.00		0	—1.0	5.0	—0.9	2	15	4	0	0	0	2	1	4	1	0	0	1	3	10	11	1	1	Karachi (Manora)
0.4	—1.5	0.1	0.00	—0.38	0.00		0	—0.9	3.6		18	1	0	0	0	0	5	2	2	12	5	1	0	0	0	4	3	3	Badin.
																													HILL STATIONS (excluding Kashmir and Baluchistan)
3.7	—0.1	4.9	5.17	+0.86	2.93	9	6	—0.4	7.7	+2.4	0	12	6	5	0	0	0	1	4	0	3	4	4	1	3	2	0	11	Murree.
4.3	+0.8	2.2	1.49	—1.72	1.12	8	2	—2.7	11.9	+3.8	24	0	0	0	1	0	0	3	0	15	1	1	0	7	0	0	4	0	Cherat.
3.4	—0.5	4.5	2.12	+0.57	1.35	8	2	—1.7	5.3	+2.8	0	2	4	5	0	0	1	0	16	0	1	9	10	0	0	0	0	8	Drosh.
2.2	—1.2	3.2	1.72	—0.91	1.19	8	3	—2.4	2.4	+0.4	4	1	1	0	0	0	0	2	20	5	2	2	5	5	2	1	2	4	Parachinar.
1.4	—1.4	1.6							2.2		0	0	0	0	1	3	1	1	22	0	0	0	13	2	7	0	2	4	Wana.
																													AFGHANISTAN
																													Jalalabad (R)
2.7	—1.6	3.6	1.10	—0.39	0.73	8	3	—0.4	6.0	+2.9	4	2	1	0	6	6	4	4	1	1	1	0	0	6	9	6	3	2	Kabul.
3.2		2.6	1.79		0.39	8	6		2.9		0	2	0	2	0	1	0	0	23	0	8	0	3	0	4	0	0	13	Kandahar.
																													IRAN
																													Jask (R)
																													ARABIA.
1.3	—0.8	0.8	0.17	—0.54	0.10	4	1	—0.4	5.1	+1.4	0	0	0	0	1	1	8	7	11	0	1	0	0	0	1	4	8	14	Muscat.
																													Kuwait. (R)

(R) Register not received.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS.
February 1950

STATION	Maximum temperature °F				Minimum temperature °F				Mean dry bulb temperature 0300 hrs. G.M.T. °F	Mean wet bulb temperature 0300 hrs. G.M.T. °F	Vapour, Pressure, inches		Relative humidity %		Mean cloud amount 0300 hrs. G.M.T.	Precipitation						Wind	
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date			Mean 0300 hrs. G.M.T	Departure from normal	Mean 0300 hrs. G.M.T.	Departure from normal		Total of the Month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more.	Departure from normal	Resultant direction 0300 hrs. G.M.T.	Velocity knots
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
																"	"	"					
EAST PAKISTAN (*North*)																							
Pabna	83.6	+0.6	92	21, 22					68.9	61.9	15.8	−0.1	65	−5		0.37	−0.59	0.14	24	2	+0.1		
KASHMIR—																							
Jammu *																							
Kargil *																							

* Data not available.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS G.M.T. AT 5TH CLASS STATIONS
February 1950

DIVISION	STATION	PRECIPITATION					
		Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal
1	2	3	4	5	6	7	8
		"	"	"			
EAST PAKISTAN (*North*)	Rajshahi (R) ...						
	Rangpur ...	2.61	+1.91	2.20	24	3	+1.7
KASHMIR	Sonamarg * ...						
	Gurez * ...						
BALUCHISTAN (*North*)	Harnai ...	1.32	−0.01	0.56	6	3	+0.6

(R) Register not received. * Data not available

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PAKISTAN WEATHER REVIEW, 1950

Monthly Weather Report

MARCH

Published by the authority of the Government of Pakistan

Chief features :— (1) Marked spells of wet weather practically over the whole of West Pakistan, especially during the latter half of the month.
(2) Pronounced thunderstorm activity over East Pakistan during the period 23rd to 26th.

WEST PAKISTAN: During the first week of the month, western disturbances affecting the region were feeble and caused light showers over the hills of the North-West Frontier Province. Subsequent western disturbances, eleven in all, were active and together with their secondaries, caused frequent spells of wet weather over the major portion of West Pakistan. The most marked spell of wet weather, however, occurred during the period 20th to 24th, when three western disturbances in close succession, affected the North-West Frontier Province, adjoining Kashmir and the north Punjab, with their secondaries affecting Baluchistan, the south Punjab and adjoining Sind.

Some of the noteworthy amounts of rainfall recorded during the month were :—Chakdara 2", Jhelum, Rawalpindi and Murree 1½" each, Cherat and Parachinar 1" each on the 21st; Cherat 2", Sialkot and Jhelum 1½" each, Murree and Peshawar 1" each on the 22nd; Murree 1½", Jhelum and Chakdara 1" each on the 23rd; Bannu 1" on the 24th; Hindubagh 1" on the 29th; Quetta 1" on the 30th.

According to press reports, owing to the heavy rains in Multan on the 21st, about 50% of the city's telephone system was completely put out of order. The downpour is also reported to have caused considerable damage to a number of houses in the city besides damaging the crops. Violent hail storm in Lahore on the 22nd accompanied by a heavy downpour flooded the city's roads.

The mean actual rainfall of the month was in large excess in the north Punjab, in moderate excess in the north Baluchistan and in slight excess in the south Punjab. It was normal in the upper North-West Frontier Province, in slight defect in the lower North-West Frontier Province and in large defect elsewhere. Averaged over the plains of West Pakistan, the rainfall was in slight excess.

The mean maximum temperature was normal in south Baluchistan and lower Sind and below normal elsewhere. The mean minimum temperature was below normal in the North-West Frontier Province and normal elsewhere. Relative humidity was in excess in the north Punjab and the lower North-West Frontier Province and normal elsewhere. Skies were more clouded than usual in the north Punjab, in Baluchistan and Sind.

EAST PAKISTAN: A secondary western disturbance moving through northeast India, caused scattered thundershowers over East Pakistan during the middle of the month. Another 'low' which moved across East Pakistan on the 20th, caused fairly widespread thunderstorms/showers especially in the eastern half of East Pakistan. This was followed by three 'lows' in quick succession, giving rise to pronounced thunderstorm activity in East Pakistan during the period 23rd to 26th.

Some of the noteworthy amounts of rainfall recorded during the month were :—Mymensingh 1" on the 14th; Chittagong 1" on the 15th; Brahmanbaria 1" on the 21st; Brahmanbaria 3" and Srimangal 1" on the 23rd.

The mean actual rainfall during the month was in slight defect in the Eastern sub-division and in moderate defect in the Northern and Deltaic sub-divisions. Averaged over the region as a whole, rainfall was in moderate defect. The mean maximum and minimum temperatures and relative humidity were normal. Skies were more clouded than usual in the Northern sub-division.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud, for the 5 chief divisions and 12 sub-divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—MARCH 1950.

DIVISION.	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour Pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb	%	
1. East Pakistan	1·32	1·90	−0·58	− 31	−0·1	−0·1	−1·2	− 2	+0·3
Mean of East Pakistan	1·32	1·90	−0·58	− 31	−0·1	−0·1	−1·2	− 2	+0·3
2. Punjab	1·63	0·98	+0·65	+ 66	−3·9	−1·4	−0·1	+ 10	+0·7
3. North-West Frontier Province ...	1·43	1·66	−0·23	− 14	−4·1	−2·2	−0·6	+ 3	+0·6
4. Baluchistan	0·95	0·85	+0·10	+ 12	−1·8	−1·0	+0·4	+ 3	+0·9
5. Sind	0·01	0·22	−0·21	− 95	−0·6	+0·3	−0·7	− 1	+0·9
Mean of West Pakistan excluding Baluchistan.	1·04	0·83	+0·21	+ 25	−2·8	−1·0	−0·4	+ 5	+0·8
SUB-DIVISION									
1. East Pakistan (North)... ...	0·68	1·15	−0·47	− 41	0·0	−0·3	−1·0	− 4	+0·9
2. East Pakistan (East)	2·08	2·54	−0·46	− 18	+0·3	+0·1	−1·0	− 1	+0·1
3. East Pakistan (Deltaic) ...	0·99	1·88	−0·89	− 47	−0·8	−0·4	−1·6	− 3	+0·3
4. Kashmir*									
5. North Punjab	1·94	1·27	+0·67	+ 53	−3·9	−1·5	+0·2	+12	+0·9
6. South Punjab	1·01	0·41	+0·60	+ 15	−3·9	−1·1	−0·7	+ 4	+0·3
7. North West Frontier Province (Upper)	2·40	2·44	−0·04	− 2	−3·1	−2·5	−0·9	− 4	+0·7
8. North-West Frontier Province (Lower)	0·95	1·27	−0·32	− 25	−4·5	−2·1	−0·5	+ 7	+0·6
9. Baluchistan (North)	1·30	0·93	+0·37	+ 40	−2·7	−1·0	+0·3	+ 5	+0·8
10. Baluchistan (South)	0·11	0·62	−0·51	− 82	0·0	−0·6	+0·6	− 3	+1·3
11. Sind (Upper)	0·02	0·23	−0·21	− 91	−4·6	+0·5	+0·3	+ 2	+1·5
12. Sind (Lower)	0·00	0·21	−0·21	−100	+0·7	+0·2	−1·4	− 3	+0·5

* Data incomplete.

TALBE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION	Height of bar. cistern above M.S.L. in feet.	Pressure at station level in millibars: Mean 0300 hrs. G. M. T.	Pressure at station level in millibars: Departure from normal	Pressure at station level in millibars: Mean 1200 hrs G. M. T.	Pressure at M. S. L.: Mean 0300 hrs G. M. T.	Pressure at M. S. L.: Mean 1200 hrs G. M. T.	Maximum temperature °F: Mean	Maximum temperature °F: Departure from normal	Maximum temperature °F: Highest	Maximum temperature °F: Date	Minimum temperature °F: Mean	Minimum temperature °F: Departure from normal	Minimum temperature °F: Lowest	Minimum temperature °F: Date	Dry bulb temperature °F: Mean 0300 hrs. G. M. T.	Dry bulb temperature °F: Mean 1200 hrs. G. M. T.	Wet bulb temperature °F: Mean 0300 hrs. G. M. T.	Wet bulb temperature °F: Mean 1200 hrs. G. M. T.	Vapour pressure millibars: Mean 0300 hrs. G. M. T.	Vapour pressure millibars: Departure from normal	Vapour pressure millibars: Mean 1200 hrs. G. M. T.	Relative humidity %: Mean 0300 hrs. G. M. T.	Relative humidity %: Departure from normal	Relative humidity %: Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
EAST PAKISTAN (North)																								
Sirajganj ...	48	1010.4		1006.2	1012.1	1007.9	90.5		97	13, 14	62.6		55	16	77.3	84.6	70.6	73.3	22.5		23.0	73		58
Bogra ...	63	1010.7	+1.1	1006.0	1012.9	1008.2	90.4	−0.3	97	13	63.2	+0.2	56	1, 30	74.2	85.7	65.3	66.2	17.0	−1.1	13.4	60	−3	32
Dinajpur ...	123	1008.8	+1.5	1004.0	1013.1	1008.2	89.1	−0.1	93	17	60.2	−0.7	52	9	73.0	84.7	64.2	70.1	16.3	+0.4	18.9	61	+2	45
EAST PAKISTAN (East)																								
Cox's Bazar ...	38	1011.4	0.0	1008.1	1012.8	1009.4	87.7	+1.4	93	31	66.6	+2.2	60	31	77.8	81.1	70.3	72.3	22.1	−2.6	22.7	69	−5	65
Chittagong ...	87	1010.1	+0.1	1006.2	1013.1	1009.2	88.0	+0.9	96	9	67.1	−0.1	61	1, 3, 31	78.2	81.0	70.2	71.7	21.4	−2.1	22.1	66	−7	64
Comilla ...	29	1011.7	+0.3	1007.8	1012.7	1008.8	89.9	+0.2	96	7	67.2	+0.1	59	2, 31	77.2	83.5	69.6	71.2	21.2	−3.5	19.8	67	−5	54
Narayanganj (R) ...	26																							
Brahmanbaria ...	32	1011.8		1007.6	1012.9	1008.7	88.8	−1.2	95	7	66.0	+2.0	59	2	76.8	82.2	69.5	70.1	21.2	+0.1	19.6	69	+2	53
Srimangal ...	69	1010.6	+0.3	1006.3	1013.0	1008.7	87.7	−2.5	94	7	60.7	−0.8	50	2	72.0	80.7	67.8	71.1	21.6	+0.8	22.1	80	+6	61
Mymensingh ...	62	1010.8	+0.4	1006.2	1013.0	1008.4	90.8	+2.8	95	8, 14	61.8	−2.9	58	1, 3, 14	73.3	82.5	68.4	73.3	21.1	+1.1	24.6	77	+6	64
EAST PAKISTAN (Deltaic)																								
Faridpur ...	46	1011.0	+0.7	1006.4	1012.6	1008.0	85.6	−3.7	90	7, 8, 12	65.5	−0.3	56	2, 30	78.2	85.5	69.8	71.1	20.8	−1.2	18.9	63	−3	48
Barisal (R) ...	11																							
Khulna ...	16	1012.6	+0.8	1008.3	1013.1	1008.9	90.7	−0.9	97	7	68.2	−0.2	61	30, 31	79.2	84.3	69.5	69.8	20.3	−2.4	18.1	59	−7	45
Jessore ...	26	1011.7	+0.4	1007.1	1012.6	1008.0	91.6	−0.3	97	7	63.9	−0.9	55	30, 31	79.1	85.0	69.5	70.3	20.3	−1.9	18.9	61	−8	46
Satkhira ...	16	1011.8	+0.4	1007.0	1012.4	1008.1	92.6	−1.1	98	7	67.7	−0.2	58	30	76.6	86.6	69.6	73.1	21.9	−1.0	22.1	73	+5	53
KASHMIR																								
Srinagar † ...	5,205																							
Gulmarg † ...	8,709																							
Dras † ...	10,059																							
Leh † ...	11,529																							
Skardu † ...	7,505																							
Gilgit ...	4,890	854.3		851.4	904.2	899.1	(b) 62.0		69	31	(j) 38.0		31	26	43.6	59.6	37.3	43.7	5.1		3.1	54		23
Misgar ...	10,190	696.0		693.4	699.8	697.0	42.1		49	9, 10	23.9		15	28	25.6	38.7	21.1	29.7	2.4		2.8	54		38
NORTH PUNJAB																								
Lahore ...	702	988.8	+1.3	986.6	1013.9	1011.0	77.7	−4.9	88	11	53.6	+0.4	46	27	59.5	74.1	54.7	61.0	12.4	+0.9	12.6	73	+14	45
Sialkot ...	830	984.6	+1.5	982.0	1013.6	1010.9					53.6	−0.6	47	27	58.7	72.0	54.1	61.3	12.3	−0.2	13.7	73	+6	52
Jhelum ...	765	986.7		984.8	1014.4	1011.3	75.3		88	11	50.1		42	1,27	56.4	72.6	53.4	62.6	12.6		14.9	81		56
Rawalpindi ...	1,674	955.6	+0.7	954.4	1015.3	1012.0	72.1	−3.0	83	11	47.7	−2.7	41	4,26	54.7	68.0	49.8	56.1	10.3	−0.4	10.4	71	+12	47
Khushab ...	616	991.6	+0.4	989.6	1013.8	1010.9	77.9	−3.4	87	9, 11	52.5	−3.3	42	6	57.4	75.9	53.0	61.7	11.8	+1.1	12.4	73	+17	42
Lyallpur ...	605	991.7	+0.8	989.4	1013.4	1010.4	77.5	−4.1	85	9, 11	52.1	−1.5	44	27	56.2	74.3	52.1	60.3	11.4	−0.3	11.5	76	+13	42

(b) Mean of 29 days. (j) Mean of 21 days. † Data not available. (R) Register not received.

0300 HRS G.M.T. AND 1200 HRS. G. M. T. FOR THE MONTH OF MARCH 1950

Cloud Amount (Eighths of sky)			Precipitation.						Wind Velocity knots		Wind Direction—Number of Winds from :—																				
											0300 hrs. G. M. T.									1200 hrs. G. M. T.										
Mean, 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date.	Days with 0.10" or more	Departure from normal	Mean.	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm.	STATIONS
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
			"	"	"																								EAST PAKISTAN (North)
2.0		2.0	0.63	−0.65	0.38	22	2	−0.1	3.2		1	0	2	3	9	2	1	5	8	0	0	3	0	6	1	1	3	17	Sirajgunj.
3.8	+1.8	3.2	1.36	+0.22	0.83	23	3	+1.0	2.6	+0.8	0	3	5	1	2	8	6	0	6	1	1	2	0	1	11	12	0	3	Bogra.
1.6	−0.1	1.0	0.93	+0.24	0.55	24	3	+1.6	1.4	−1.0	3	2	1	0	1	1	3	0	20	0	0	0	0	0	2	5	0	24	Dinajpur.
																													EAST PAKISTAN (East)
2.9	+0.7	1.7	0.60	−0.89	0.30	26	2	+0.5	1.9	−0.8	3	1	1	0	0	0	0	0	26	2	0	0	0	5	1	5	4	14	Cox's Bazar.
3.3	+0.8	3.5	1.48	−0.98	1.10	15	2	−0.5	5.0	−0.4	3	11	7	4	2	1	0	1	2	0	4	0	1	6	9	7	4	0	Chittagong.
3.3	+0.4	3.3	1.04	−1.97	1.04	23	1	−2.5	3.8	+0.4	5	0	2	6	14	2	1	0	1	6	0	2	4	10	1	5	1	2	Comilla.
																													Narayanganj (R)
2.5	−1.5	1.7	4.27	+1.24	3.31	23	2	−1.7	2.8		4	5	1	3	10	3	0	1	4	1	1	2	2	6	2	2	0	15	Brahmanbaria.
3.4	+1.0	3.1	2.60	−0.79	0.88	23	4	−0.9	2.9	−0.4	1	0	0	2	3	0	2	0	23	3	0	3	1	5	0	7	0	12	Srimangal.
2.3	−1.1	3.3	2.51	+0.67	0.89	14, 23	3	0	1.8	+0.2	0	0	1	12	0	0	0	0	18	0	0	0	6	0	0	0	0	25	Mymensingh.
																													EAST PAKISTAN (Deltaic)
2.9	+0.7	2.8	0.23	−1.87	0.14	25	1	−1.9	4.5	+1.2	2	3	14	5	1	0	0	0	6	2	3	11	6	1	0	0	0	8	Faridpur.
																													Barisal. (R)
1.9	−1.0	2.0	0.76	−0.88	0.55	26	2	−0.3	2.5	−0.5	1	1	0	0	1	3	5	3	17	1	0	2	3	10	1	3	0	11	Khulna.
1.8	−0.7	2.0	1.57	−0.36	0.47	26	5	+2.1	3.5	+1.7	0	1	1	3	4	3	5	3	11	1	1	0	0	4	3	3	2	17	Jessore.
4.1	+2.2	4.0	1.38	−0.46	0.86	26	2	−0.5	2.8	+0.7	5	0	0	5	2	10	3	5	1	3	1	0	3	3	5	1	5	10	Satkhira.
																													KASHMIR
																													Srinagar. †
																													Gulmarg †
																													Dras. †
																													Leh. †
																													Skardu. †
4.3		6.0	0.05		0.05	12	0		0.5		0	0	0	0	0	0	0	0	31	0	0	1	0	0	3	1	1	25	Gilgit
5.9		7.0	0.15		0.08	10	0		3.7		0	0	2	0	0	0	5	0	24	0	0	22	0	0	0	9	0	0	Misgar.
																													NORTH PUNJAB
4.1	+1.4	4.6	3.20	+2.41	0.86	22	6	+4.1	3.0	+1.1	3	5	3	0	0	0	5	3	12	3	5	2	1	2	0	8	7	3	Lahore.
4.7	+2.5	5.2							2.3	+0.8	6	4	0	0	0	0	1	10	10	1	3	0	2	4	2	0	11	8	Sialkot.
4.5		5.2	4.81		1.63	22	5		2.3		2	1	1	1	0	0	1	7	18	1	0	2	2	0	1	7	11	7	Jhelum.
3.8	+0.8	4.5	3.13	+0.46	1.25	21	5	+0.3	2.6	+0.3	1	0	1	1	0	0	0	2	26	0	1	2	1	1	3	11	2	10	Rawalpindi.
1.8	−1.0	2.7	1.22	+0.18	0.36	21	4	+1.5	3.5	−0.2	3	9	3	1	0	3	2	0	10	3	6	7	3	2	5	3	1	1	Khushab.
3.8	+0.7	3.5	0.20	−0.36	0.09	17	0	−1.6	1.4	−0.5	7	6	1	0	1	3	0	0	13	13	1	1	0	3	3	5	2	3	Lyallpur.

† Data not available.

(R) Register not received.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION	Height of bar. cistern above M.S.L. in feet	Pressure at station level in millibar: Mean 0300 hrs. G. M. T.	Pressure at station level in millibar: Departure from normal	Pressure at station level in millibar: Mean 1200 hrs. G. M. T.	Pressure at M. S. L.: Mean 0300 hrs. G. M. T.	Pressure at M. S. L.: Mean 1200 hrs. G. M. T.	Maximum temperature °F: Mean	Maximum temperature °F: Departure from normal	Maximum temperature °F: Highest	Maximum temperature °F: Date	Minimum temperature °F: Mean	Minimum temperature °F: Departure from normal	Minimum temperature °F: Lowest	Minimum temperature °F: Date	Dry bulb temperature °F: Mean 0300 hrs. G. M. T.	Dry bulb temperature °F: Mean 1200 hrs. G. M. T.	Wet bulb temperature °F: Mean 0300 hrs. G. M. T.	Wet bulb temperature °F: Mean 1200 hrs. G. M. T.	Vapour pressure millibars: Mean 0300 hrs. G. M. T.	Vapour pressure millibars: Departure from normal	Vapour pressure millibars: Mean 1200 hrs. G. M. T.	Relative humidity %: Mean 0300 hrs. G. M. T.	Relative humidity %: Departure from normal	Relative humidity %: Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SOUTH PUNJAB																								
Montgomery ...	558	993.5	+1.0	991.2	1013.5	1010.5	78.8	−5.0	87	11	54.0	−2.0	47	1	60.1	77.0	53.9	60.5	11.5	−1.1	10.6	66	−1	35
Multan (R) ...	413																							
Fort Abbas ...	475	996.2		993.6	1013.3	1009.5	84.1		95	11	54.5		47	24	62.6	80.8	56.8	63.8	13.6		12.6	69		36
Bahawalpur ...	384	999.7	+0.8	996.7	1013.4	1009.9	82.7	−2.9	92	10, 11	55.1	−0.1	45	1	58.6	80.5	53.6	62.5	11.8	−0.4	11.2	70	+9	29
Khanpur (R) ...	297																							
N.-W. F.P. (Upper)																								
Chakdara ...	2,225	937.6		935.2	1016.3	1011.6	68.0		77	31	46.9		39	27	50.6	65.5	46.6	53.6	9.2		9.0	74		45
Peshawar ...	1,175	973.5	+0.1	971.1	1015.4	1012.0	71.7	−3.1	80	31	49.9	−2.5	42	27	56.7	68.8	50.9	54.9	10.0	−0.9	8.5	65	−4	39
Landikotal ...	3,503						62.9		72	31					51.0	58.7	45.4	48.0	8.1		7.1	63		42
N.-W. F. P. (Lower)																								
Bannu ...	1,264	969.1		966.8	1014.2	1010.6	73.5	−4.5	81	6, 31	51.1	−1.8	45	26, 27	56.8	71.0	50.9	58.3	10.1	+0.3	10.6	65	+10	43
Miranshah (*) ...	3,026																							
D. I. Khan ...	570	993.7	+0.9	990.7	1014.5	1010.6	77.2	−4.6	83	7, 9, 31	52.7	−2.3	46	5	58.3	75.4	52.4	60.2	10.8	−1.3	11.0	66	+3	39
BALUCHISTAN (North)																								
Fort Sandeman ...	4,614	859.9	+0.3	857.6	900.8	896.9	65.4	−4.5	78	9, 10	42.8	−2.0	36	23	46.5	62.6	40.4	46.9	6.3	−0.2	5.0	55	−11	26
Hindubagh ...	5,950	820.6		818.4	798.1	795.9	59.4		70	8	35.6		25	4	42.2	55.5	37.6	43.8	5.5		4.5	67		41
Loralai ...	4,699	857.1		854.6	900.6	897.0	63.4		74	11	38.7		31	24, 26	44.1	60.4	39.2	48.1	6.2		6.6	63		41
Sibi ...	441	997.4	+2.0	994.5	1013.1	1009.8	82.4	−3.6	92	11	56.9	−2.5	44	15, 16	63.6	80.0	52.9	60.3	9.8	+1.6	10.8	46	+7	24
Quetta ...	5,490	832.0	−1.7	829.1	795.7	793.4	59.5		70	10, 11	36.3		26	26	45.8	56.5	43.3	51.0	8.8	+2.3	11.1	81	+14	70
Quetta (Samungli) ...	5,307	841.6		839.7	797.0	796.5	60.0		72	11	30.9		22	12	41.7	57.0	38.7	48.9	6.9		8.9	79		55
Chaman ...	4,311	870.4	+1.0	869.0	901.4	899.1	64.4	−2.1	73	10, 11	44.1	−1.9	32	22, 23	49.7	60.8	42.3	51.3	6.3	−0.4	8.7	63	+9	52
Nushki ...	3,412	902.6		900.1	906.2	903.1	71.8		81	11	47.8		41	21, 25	57.2	68.4	48.3	54.2	7.8		8.6	50		37
Kalat ...	6,616	799.8	+0.1	798.1	797.1	795.9	57.0	−3.7	69	10	34.7	−1.3	23	23	40.2	53.3						66	+13	43
Dalbandin ...	2,785	918.3	+0.1	915.6	899.6	898.0	75.3	−2.3	83	11, 31	46.6	−1.1	31	23	52.2	72.5	47.0	59.2	8.9	+0.9	11.8	66	+13	43
Nokkundi ...	2,229	937.0		933.3	1013.3	1007.7	77.2	+0.1	87	28	54.5	+2.7	39	23	58.0	75.3	46.4	54.4	6.6	−2.2	7.0	37	−9	21
BALUCHISTAN (South)																								
Las Bela ...	292	1003.7	+1.2	999.9	1010.0	1009.7	91.1	+2.2	93	11, 30					67.5	87.2	62.4	74.0	17.1	+1.2	22.3	66	−3	56
Ormara ...	15	1012.1		1009.6	1012.6	1010.1	83.3	+1.4	88	31	64.8	−0.6	53	5	69.5	80.5	66.3	69.9	20.9	+1.4	22.1	80	−3	59
Pasni (R) ...	10																							
Turbat ...	510	996.4		993.3	1014.3	1010.4	88.5		93	12, 13	59.4		50	1, 6	67.2	87.5	58.8	65.6	6.4		11.7	59		27
Panjgur ...	3,177	904.8	−0.3	903.0	899.0	897.0	74.4	−3.7	83	11					52.0	72.8	45.6	54.0	7.9	−0.8	7.4	59	−4	29
SIND (Upper)																								
Reti ...	280	1004.1		1000.9	1014.4	1010.6	86.1		96	10, 11	55.4		44	1, 2	60.4	84.5	53.0	64.9	10.4		12.2	56		30
Jacobabad ...	183	1006.6	+1.2	1003.0	1013.2	1009.4	85.9	−4.6	94	11	59.9	0.0	51	24	64.0	84.4	55.7	65.6	11.8	+1.4	14.0	56	+1	33
Sukkur ...	221	1004.8	+0.6	1001.7	1012.8	1009.3					58.6	+1.0	51	2, 3, 4	62.0	84.0	53.8	61.5	11.2	−0.7	10.8	56	+3	23
Pad Idan ...	153	1007.7		1004.3	1013.2	1009.6	87.0		99	11	55.5		46	4, 23, 24	61.8	85.5	54.2	63.1	11.9		9.7	59		23

(R) Register not received. (*) Data rejected.

0300 HRS. G. M. T. AND 1200 HRS. G. M. T. FOR THE MONTH OF MARCH. 1950.

Cloud Amount (Eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction – Number of Winds from :-																		STATION
											0300 hrs. G.M.T.									1200 hrs. G.M.T.									
Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
			"	"	"																								SOUTH PUNJAB.
2.3	+0.2	2.8	1.80	+1.38	0.82	14	3	+1.7	1.3	−1.8	1	1	0	4	0	3	0	6	16	1	2	1	1	0	4	0	8	14	Montgomery.
																													Multan. (R)
2.6		3.2	0.52		0.30	21	2		5.6		5	5	7	5	4	3	0	1	1	9	7	1	1	0	1	6	6	0	Fort Abbas.
2.3	+0.4	1.4	0.21	−0.19	0.16	21	1	+0.1	2.0	−0.6	5	1	3	0	0	0	0	1	21	3	4	1	0	0	0	7	0	16	Bahawalpur
																													Khanpur (R).
																													N. W. F. P. (Upper)
4.0		4.7	6.16		2.43	21	7		3.6		12	0	0	0	0	2	0	15	2	1	1	1	2	4	15	1	2	4	Chakdara.
4.9	+0.7	5.5	2.40	−0.04	0.88	22	4	−0.6	2.3	+0.5	4	1	0	1	1	3	0	1	20	5	3	1	3	1	5	1	4	8	Peshawar.
3.5		4.3	2.55		0.80	21	6		2.6		5	3	0	0	0	0	2	2	19	6	3	4	1	1	0	4	4	8	Landikotal.
																													N. W. F. P. (Lower)
4.0	+1.6	5.0	1.19	−0.39	0.97	24	3	−0.7	2.9		0	1	0	0	1	0	13	6	10	0	0	2	9	0	1	1	4	5	Bannu.
																													Miranshah (*).
2.2	−0.4	2.3	0.70	−0.26	0.30	22	3	+0.7	2.2	+0.7	2	5	1	1	1	3	4	6	8	1	3	7	5	3	1	0	1	10	D. I. Khan.
																													BALUCHISTAN (North)
3.1	+0.8	5.1	1.57	+0.19	0.35	21	6	+2.4	2.1	−0.9	0	0	0	0	0	0	1	0	30	1	2	0	2	2	7	8	3	6	Fort Sandeman.
2.9		3.9	3.51		1.01	29	7				0	0	3	1	2	10	12	3	0	0	0	5	0	3	13	7	3	0	Hindubagh.
2.6		4.2	1.90	+0.60	0.47	19	7	+3.9	4.1		1	0	0	0	1	2	19	1	7	1	0	3	1	13	1	6	0	6	Loralai.
2.9	+1.1	3.6	0.47	−0.83	0.12	29	2	−1.1	3.3	+0.2	2	4	1	1	1	1	2	3	16	1	0	0	5	3	8	7	3	4	Sibi.
3.7	+1.0	5.0	3.14		0.99	29	9		5.4	+2.6	2	4	0	2	12	7	0	2	2	4	2	0	2	3	8	5	7	0	Quetta.
4.1		5.2	3.09		1.16	31	9		6.6		0	0	5	10	2	2	1	1	10	0	0	4	1	1	6	9	9	1	Quetta (Samungli)
3.7	+0.7	5.7	2.08	+0.59	0.65	28	7	+3.0			1	2	8	9	4	2	0	1	4	2	0	3	3	3	7	9	3	1	Chaman.
3.6		5.0	1.07		0.33	20	4		9.1		3	9	13	3	2	0	0	1	0	2	0	0	1	7	5	14	2	0	Nushki.
3.6	+1.4	5.4	2.42	+1.37	0.76	13	8	+5.0	7.3	+2.5	0	1	0	6	11	5	0	1	7	1	0	0	1	1	15	0	13	0	Kalat.
2.6	+0.3	3.6	0.24	−0.16	0.22	13	1	−0.4	3.8	−0.2	0	2	3	1	0	1	1	2	21	0	1	1	0	4	7	9	0	9	Dalbandin.
2.5	+0.2	3.1	0.45	−0.33	0.30	12	2	+1.4	5.8	−0.3	8	4	3	0	0	0	2	1	13	5	0	2	4	2	0	4	3	11	Nokkundi.
																													BALUCHISTAN (South)
0.8	−1.0	1.0	0.14	−0.89	0.10	19	1	−0.4	2.6	+0.2	0	0	1	1	0	1	0	0	28	0	0	2	2	0	0	0	1	26	Las Bela.
2.5	+0.3	2.9	0.12	−0.11	0.12	27	1	+0.3	8.0	+0.3	1	0	4	1	2	3	5	0	15	0	1	0	2	6	13	9	0	0	Ormara.
																													Pasni. (R)
			0.26		0.10	25	1		6.3		0	9	3	4	0	2	2	0	11	1	2	3	1	0	7	10	5	2	Turbat.
4.0	+2.5	4.8	0.08	−0.52	0.08	13	0	−1.3	3.7	−1.0	3	17	7	1	0	0	0	0	3	4	3	0	0	0	12	6	6	0	Panjgur.
																													SIND (Upper)
2.3		1.9	0.00		0.00		0		5.5		4	16	1	1	1	0	2	2	4	3	10	0	1	1	3	6	5	3	Reti.
2.9	+1.1	3.5	0.06	−0.16	0.04	31	0	−0.7	5.6	+3.1	4	3	11	6	1	0	1	2	3	2	2	4	7	4	3	2	4	3	Jacobabad.
3.1	+1.8	2.6	0.00	−0.24	0.00		0	−0.9	3.2	−0.1	8	7	5	9	0	0	1	0	1	4	7	2	3	3	5	2	5	0	Sukkur.
3.0		3.0	0.00		0.00		0		4.0		6	7	2	4	2	1	0	4	5	7	4	0	1	4	4	5	5	1	Pad Idan.

(R) Register not received. (*) Data rejected.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION	Height of bar. cistern above M. S. L. in feet	Pressure at station level in millibars			Pressure at M. S. L.		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure millibars			Relative humidity %		
		Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Mean 0300 hrs G.M.T.	Mean 1200 hrs. G.M.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0300 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0300 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SIND (Lower)																								
Umarkot ...	55	1009.3		1006.4	1011.2	1008.3									67.7	90.1	58.5	67.2	12.6		13.1	55		26
Hyderabad ...	96	1009.3	+0.6	1006.6	1012.7	1009.0	91.3	−1.2	98	12, 13, 14	63.4	−0.4	56	2	67.8	89.3	57.9	64.2	12.0	−1.0	8.9	51	−4	19
Karachi (Drigh Road)	73	1010.0		1007.2	1012.6	1009.7	87.9		95	31	63.3		54	1, 8	68.3	84.0	61.2	67.7	15.2		15.5	66		42
Karachi (Manora) ...	13	1012.0	−0.2	1009.4	1012.5	1009.9	82.8	+1.0	93	29	68.2	+0.2	62	1	71.1	78.4	65.1	71.2	18.3	−1.1	23.7	72	−4	70
Badin ...	31	1010.9	−0.2	1007.7	1012.0	1008.8	94.1	+2.4	98	12, 18, 30	62.6	+0.9	53	1	66.0	90.9	59.9	67.8	14.9	−2.0	21.1	64	−2	26
HILL STATIONS (excluding Kashmir and Baluchistan)																								
Murree ...	7,113	783.2	−0.7	782.8	795.2	794.8	49.4	−6.2	62	10	36.3	−1.5	27	24	41.5	43.8	35.8	38.8	5.1	−0.5	6.2	61	+8	67
Cherat ...	4,272	871.8	+1.8	870.8	901.6	900.3	58.0	−3.2	67	1, 31	44.2	−3.5	30	23	48.4	55.5	41.8	46.3	6.4	−0.6	7.1	56	0	51
Drosh ...	4,806	855.7		853.0	903.1	899.1	56.4	−1.7	68	31	39.2	−1.2	34	27, 28	41.3	53.2	37.7	43.1	6.2	−0.1	5.5	72	+5	43
Parachinar ...	5,673	826.5	0.0	825.5	795.3	794.9	56.5	−3.3	65	31	37.1	−1.5	30	25	41.0	52.4	37.1	44.1	6.1	+1.1	6.9	70	+10	54
Wana (R) ...	4,456																							
AFGHANISTAN																								
Jalalabad (R) ...	1,950																							
Kabul ...	5,955	819.8		818.2	798.0	797.2	51.4	−1.4	61	31	33.0	−0.6	25	26	36.9	45.7	32.8	40.3	5.0	+0.3	6.6	69	+3	48
Kandahar ...	3,462	904.1		901.7	907.7	905.1	67.1		77	10	39.7		29	24	45.8	64.5	42.7	54.7	8.1		10.7	77		53
IRAN																								
Jask (R) ...	13																							
ARABIA																								
Muscat ...	15	1011.5		1010.6	1012.0	1011.1	77.5	−3.5	93	29	70.7	−1.2	66	2, 3, 4	72.2	72.2	66.8	69.1	20.0		22.9	73		71
Kuwait ...	16	1015.2		1012.8	1015.9	1013.3	72.6		84	25	58.3		52	2	62.9	70.8	56.9	60.5	13.1		13.4	68		53

(R) Register not received

0300 HRS. G. M. T. AND 1200 HRS. G. M. T.—FOR THE MONTH OF MARCH 1950.

Cloud Amount (Eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction—Number of Winds from :—																			STATION
											0300 hrs. G. M. T.									1200 hrs. G. M. T.										
Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54		55
			"	"	"																									SIND (Lower)
1.3		0.6	0.00		0.00		0		3.6		6	8	0	2	6	6	2	1	0	6	1	0	0	1	6	3	14	0		Umarkot.
2.4	+1.0	2.0	0.00	—0.20	0.00		0	—0.4	3.8	—0.5	9	4	1	2	0	8	1	1	5	8	2	3	6	3	5	1	1	2		Hyderabad.
2.9		2.4	0.00		0.00		0		6.5		4	7	0	0	0	2	6	2	10	0	1	1	0	2	14	12	0	1		Karachi (Drigh Road).
2.9	+0.9	2.5	0.00	—0.29	0.00		0	—0.6	5.1	—2.0	2	10	1	0	0	2	6	2	8	0	0	0	0	0	13	17	1	0		Karachi (Manora).
0.8	—0.4	0.6	0.00	—0.15	0.00		0	—0.2	3.9	+0.3	10	0	0	0	0	2	7	3	9	5	1	0	0	1	5	9	4	6		Badin.
																														HILL STATIONS (excluding Kashmir and Baluchistan)
4.9	+1.3	6.0	6.61	+1.80	1.68	23	12	+4.7	6.1	+0.9	0	7	8	9	0	1	0	1	5	0	1	6	5	1	0	1	1	16		Murree.
2.5	—0.6	3.5	5.37	+1.08	2.04	22	6	+0.4	9.5	+2.5	19	0	0	1	4	0	0	6	1	11	1	0	3	7	4	0	5	0		Cherat.
5.4	+1.6	6.3	4.22	+0.49	0.79	11	11	+3.6	3.1	0.0	0	0	1	1	0	0	0	0	29	0	1	2	3	3	11	4	1	6		Drosh.
3.7	+0.4	5.0	2.74	—1.60	1.19	21	8	—0.3	2.9	+0.5	2	3	1	0	0	0	1	2	22	0	0	3	9	5	6	1	1	6		Parachinar.
																														Wana. (R)
																														AFGHANISTAN
																														Jalalabad (R)
4.3	+0.8	5.4	2.26	—1.33	0.62	10	6	—1.1	3.5	+0.9	1	0	1	1	8	9	1	2	8	9	8	1	2	3	3	3	1	1		Kabul.
3.1		3.5	1.83		0.72	13	4		2.1		0	2	0	2	0	0	0	0	27	0	2	0	1	0	8	0	3	17		Kandahar.
																														IRAN
																														Jask (R)
																														ARABIA.
2.1	+0.3	1.3	0.06	—0.34	0.03	23, 30	0	—1.1	4.3	+0.7	0	3	0	1	0	0	7	12	8	0	0	0	0	0	0	5	8	18		Muscat.
1.9		1.8	0.25		0.19	7	1		3.4		3	1	2	2	1	0	1	11	10	3	1	7	5	0	0	0	6	9		Kuwait.

(R) Register not received.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS. March 1950

STATION	Maximum temperature °F				Minimum temperature °F				Mean dry bulb temperature 0300 hrs. G.M.T. °F	Mean wet bulb temperature 0300 hrs. G.M.T. °F	Vapour Pressure, millibars		Relative humidity %		Mean cloud amount 0300 hrs. G.M.T.	Precipitation						Wind	
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date			Mean 0300 hrs. G.M.T	Departure from normal	Mean 0300 hrs. G.M.T.	Departure from normal		Total of the Month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more.	Departure from normal	Resultant direction 0600 hrs. G.M.T.	Velocity knots
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
																"	"	"					
EAST PAKISTAN (*North*)																							
Pabna	92.8	+0.5	98	13					78.8	68.0	18.4	−2.4	54	−12		0.08	−1.13	0.08	26	0	−1.9		
KASHMIR—																							
Jammu *																							
Kargil *																							

* Data not available.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS G.M.T. AT 5TH CLASS STATIONS March 1950

DIVISION	STATION	PRECIPITATION					
		Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal
1	2	3	4	5		7	8
		"	"	"			
EAST PAKISTAN (*North*)	**Rajshahi (R) ...**						
	Rangpur ...	0.38	−0.62	0.22	23	2	+0.4
KASHMIR	**Sonamarg * ...**						
	Gurez * ...						
BALUCHISTAN (*North*)	**Harnai ...**	2.75	+1.34	0.58	21	8	+5.1

(R) Register not received. * Data not available

PAKISTAN WEATHER REVIEW, 1950

Monthly Weather Report

APRIL

Published by the authority of the Government of Pakistan

Chief features :— (1) Fairly marked spell of wet weather over major part of West Pakistan, at the beginning and during the middle of the month.

(2) Pronounced thunderstorm activity over East Pakistan, during the period 14th to 17th.

WEST PAKISTAN : An active western disturbance moving eastnortheastwards across the upper North-West Frontier Province, Kashmir and the adjoining north Punjab together with its secondary moving northeastwards across Baluchistan, caused fairly marked spell of wet weather over West Pakistan during the first three days of the month. Subsequent western disturbances upto the middle of the month were feeble and except for isolated light rain/thundershowers in the hills of the upper North-West Frontier Province and the extreme north Punjab, weather was dry over the rest of the West Pakistan, upto the 14th of the month.

Thereafter, during the period 14th to 19th, in association with the movement of five western disturbances, in rapid succession, the region comprising of the North-West Frontier Province, the north Punjab and adjoining Baluchistan, experienced a spell of wet Weather.

During the rest of the month, western disturbances affecting West Pakistan, were feeble and except for a few showers in the hills of the North-West Frontier Province and adjoining north Baluchistan, weather remained dry over the rest of West Pakistan.

Some of the noteworthy amounts of rainfall recorded during the month were :—Chaman, Loralai 1" each on the 1st ; Bannu 3", Peshawar, Parachinar, Chakdara and Landikotal 2" each, Drosh, Cherat and Harnai 1½" each, Murree, Hindubagh and Loralai 1" each on the 2nd ; Landikotal 2", Bannu 1½", Drosh, Peshawar and Miranshah 1" each on the 3rd.

The mean actual rainfall during the month, was in large excess in the North-West Frontier Province and in moderate excess in north Baluchistan. It was in moderate defect in the north Punjab and in large defect elsewhere. Averaged over the plains of West Pakistan, rainfall was in moderate excess.

The mean maximum and minimum temperatures were normal in south Baluchistan and lower Sind and below normal elsewhere. Mean ralative humidity was in defect in south Baluchistan and Sind and normal elsewhere. Skies were more clouded than usual in upper Sind and less clouded than usual in the upper North-West Frontier Province.

EAST PAKISTAN : Weather was dry over the region during the first ten days of the month.

In association with the passage of a 'low' across East Pakistan, a few showers occurred in East Pakistan during the period 11th to 13th. This was followed by the successive passage of three lows across East Pakistan, resulting in thunderstorm activity, mainly over the eastern half of the region, during the next six days, the most marked spell being the period 14th to 17th. Weather remained practically dry over East Pakistan, during the rest of the month.

Some of the noteworthy amounts of rainfall recorded during the month were :—Comilla, Khulna 3" each, Brahmanbaria 1½", Cox's Bazar, Narayanganj, Srimangal 1" each on the 14th ; Srimangal 1½" on the 15th ; Chittgaong, Brahmanbaria, Barisal 1½" each, Comilla, Mymensingh 1" each on the 16th ; Mymensingh, Srimangal 1½" each on the 17th ; Srimangal 2" on the 18th.

The mean actual rainfall during the month was in moderate defect in the Eastern and Deltaic sub-divisions and in large defect in the Northern sub-division. Averaged over the region as a whole, rainfall was in moderate defect.

The mean maximum temperature was above normal in the Northern sub-division and normal elsewhere. The mean minimum temperature was normal over the region. Mean relative humidity was in defect in the Northern sub-division and normal elsewhere. Skies were less clouded than usual in the Northern and Deltaic sub-divisions.

Table I contains the Divisional and Sub-divisional means of rainfall, temperature, humidity and cloud for the 5 chief divisions and 12 sub-divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

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TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—APRIL 1950.

DIVISION.	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour Pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb	%	
1. East Pakistan	2·40	4·56	−2·16	− 47	+1·7	+0·2	−1·3	− 5	−0·5
Mean of East Pakistan	2·40	4·56	−2·16	− 47	+1·7	+0·2	−1·3	− 5	−0·5
2. Punjab	0·35	0·70	−0·35	− 50	−3·2	−3·0	−1·4	+ 2	−0·3
3. North-West Frontier Province ...	3·41	1·14	+2·27	+ 199	−5·8	−3·1	−2·0	− 1	−0·1
4. Baluchistan	0·57	0·55	+0·02	+ 4	−2·4	−2·5	−2·2	− 7	−0·2
5. Sind	0·01	0·10	−0·09	− 90	−0·3	−2·0	−4·0	− 8	0·0
Mean of West Pakistan excluding Baluchistan.	0·75	0·57	+0·18	+ 32	−2·6	−2·7	−2·4	− 2	−0·2
SUB-DIVISION									
1. East Pakistan (North)... ...	0·49	2·50	−2·01	− 80	+4·0	−1·7	−4·2	−15	−1·1
2 East Pakistan (East)	3·57	6·15	−2·58	− 42	+1·2	+0·3	−0·1	− 1	0·0
3. East Pakistan (Deltaic) ...	2·27	3·83	−1·56	− 41	+0·7	+0·8	−1·1	− 3	−0·9
4. Kashmir*									
5. North Punjab	0·56	0·99	−0·43	− 43	−3·0	−2·7	−0·5	+ 5	−0·3
6. South Punjab	0·03	0·26	−0·23	− 88	−3·5	−3·5	−3·2	− 5	−0·3
7. North West Frontier Province (Upper)	4·06	1·76	+2·30	+ 131	−5·1	−4·5	−0·7	+ 2	−1·0
8. North-West Frontier Province (Lower)	3·08	0·83	+2·25	+ 271	−6·1	−2·5	−2·7	− 3	+0·3
9. Baluchistan (North)	0·85	0·59	+0·26	+ 44	−4·0	−2·8	−0·3	− 1	−0·3
10. Baluchistan (South)	0·08	0·48	−0·40	− 83	+0·7	−1·6	−5·1	−17	+0·1
11. Sind (Upper)	0·03	0·13	−0·10	− 77	−2·8	−2·2	−4·3	− 7	+0·5
12. Sind (Lower)	0·00	0·07	−0·07	−100	+0·6	−1·9	−3·9	− 9	−0·3

* Data incomplete.

TALBE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION	Height of bar. cistern above M.S.L. in feet.	Pressure at station level in millibars			Pressure at M. S. L.		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure millibars			Relative humidity %		
		Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs G. M. T.	Mean 0300 hrs G. M. T.	Mean 1200 hrs. G. M. T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
EAST PAKISTAN (North)																								
Sirajganj ...	48	1005.2		999.9	1006.9	1001.5	99.6		107	23, 24	70.8		61	1	84.4	93.4	74.8	74.8	24.9		20.8	62		43
Bogra ...	63	1004.8	—1.8	999.8	1006.9	1001.9	100.0	+4.4	109	22, 23	71.6	+0.1	61	1	82.8	94.2	71.9	69.1	21.8	—2.9	12.9	58	—11	27
Dinajpur ...	123	1003.0	—1.3	998.3	1007.2	1002.4	97.9	+3.6	106	23	66.5	—3.5	59	1, 5	81.3	93.5	67.5	70.3	16.3	—5.4	14.6	48	—17	29
EAST PAKISTAN (East)																								
Cox's Bazar ...	38	1007.8	—1.5	1005.0	1009.1	1006.3	89.1	+0.4	94	1, 8	72.5	—0.9	62	3	82.6	82.9	75.9	76.6	28.2	—1.1	28.2	73	—2	74
Chittagong ...	87	1006.1	—1.4	1002.3	1009.1	1005.3	89.0	+0.2	96	1	73.2	0	62	16	82.4	82.6	75.6	76.8	26.5	—1.6	29.0	72	—3	77
Comilla ...	29	1007.3	—1.3	1002.6	1008.3	1003.6	92.0	—0.3	99	5 days	74.9	+1.6	64	2	83.1	86.7	77.3	77.2	29.0	+0.2	27.9	76	+5	66
Narayanganj ...	26	1006.6	—1.9	1002.1	1007.5	1003.0	95.4	+3.0	102	8, 9, 10	74.7	+0.7	65	1, 12	84.8	87.4	76.0	76.4	26.6	—1.3	25.7	66	—9	63
Brahmanbaria ...	32	1007.1		1002.6	1008.2	1003.7	93.8	+0.7	102	9	73.1	+2.9	62	1	82.5	87.5	75.4	75.7	27.5	+1.9	24.2	71	+2	58
Srimangal ...	69	1006.2	—1.6	1001.4	1008.6	1003.7	92.2	+0.1	100	8, 9	68.5	—0.8	54	1	79.2	89.0	74.0	75.0	26.4	+0.4	25.1	78	+1	63
Mymensingh ...	62	1006.1	—1.5	1000.6	1008.3	1002.8	95.5	+4.4	102	24, 26	70.6	—1.1	60	2	80.7	90.1	74.3	78.5	26.2	+0.8	28.1	73	—1	61
EAST PAKISTAN (Deltaic)																								
Faridpur ...	46	1008.0	—1.0	1000.9	1007.6	1002.5	91.5	—2.3	98	5, 9	76.6	+3.6	66	1	85.0	91.2	77.0	77.2	28.1	9.0	25.3	68	—1	53
Barisal ...	11	1007.8	—1.2	1003.9	1008.2	1004.3	93.5	+1.5	99	8	75.9	+0.8	65	1	84.4	86.9	77.2	77.7	28.5	—1.4	28.7	71	—4	65
Khulna ...	16	1007.9	—0.5	1003.2	1008.4	1003.8	95.7	+1.5	101	9	75.0	—0.3	64	1	85.1	89.9	77.1	76.8	28.1	—0.7	25.8	69	—3	54
Jessore ...	26	1006.6	—1.3	1001.8	1007.5	1002.7	98.5	+1.9	105	23	72.7	—0.9	59	1	84.0	91.7	75.7	75.3	26.3	—2.5	22.7	68	—5	45
Satkhira (R) ...	16																							
KASHMIR																								
Srinagar † ...	5,205																							
Gulmarg † ...	8,709																							
Dras † ...	10,059																							
Leh † ...	11,529																							
Skardu † ...	7,505																							
Gilgit ...	4,890																							
Miagar ...	10,190	696.0		695.1	700.8	698.8									33.8	42.4	28.5	33.1	3.7		3.4	56		40
NORTH PUNJAB																								
Lahore ...	702	983.3	—0.1	981.2	1007.6	1004.7	91.0	—3.5	103	29	62.2	—1.0	55	6, 25	73.2	88.9	61.6	66.6	13.5	+0.1	12.3	50	+6	27
Sialkot ...	830	978.6	—0.6	976.5	1007.3	1004.8					62.6	—2.1	55	6	72.4	86.9	60.7	65.8	12.9	—0.8	12.3	49	—1	29
Jhelum ...	765	981.8		979.2	1008.5	1004.8	87.5		100	28, 29	58.4		52	9	69.2	85.5	62.3	71.3	15.1		19.8	67		49
Rawalpindi ...	1,674	951.2	—0.4	949.6	1008.7	1005.8	83.8	—2.4	96	28, 29	54.7	—4.8	47	1, 2	66.3	79.6	56.8	61.3	11.9	—1.1	11.1	57	+9	34
Khushab (R) ...	616																							
Lyallpur ...	605	986.6	—0.3	984.0	1007.7	1004.5	89.9	—3.0	102	28	60.6	—3.3	53	4, 5, 24	69.9	87.8	59.5	64.3	12.8	0.0	9.9	53	+7	24

(b) Mean of 29 days. (d) Mean of 27 days. † Data not available. (R) Register not received.

0300 HRS G.M.T. AND 1200 HRS. G. M. T. APRIL 1950

Cloud Amount (Eighths of sky)			Precipitation.						Wind Velocity knots		Wind Direction—Number of Winds from :—																				
											0300 hrs. G. M. T.									1200 hrs. G. M. T.										
Mean, 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date.	Days with 0.10" or more	Departure from normal	Mean.	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm.	STATION
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
			"	"	"																								
																													EAST PAKISTAN (North)
2.2		1.7							5.2		0	1	2	3	21	1	2	0	0	3	2	1	1	7	1	6	0	9	Sirajganj.
2.6	—0.8	0.9	0.06	—2.18	0.06	12	0	—3.5	3.5	+1.1	0	0	11	3	3	12	1	0	0	1	1	4	1	1	12	8	0	2	Bogra.
1.7	—1.5	0.4	0.00	—2.14	0.00		0	—3.0	3.0	—0.1	0	6	5	0	2	3	4	0	10	0	3	2	0	0	2	9	1	13	Dinajpur.
																													EAST PAKISTAN (East)
2.1	—1.2	1.1	1.90	—2.30	1.13	14	2	—2.2	3.1	—0.4	0	0	2	3	15	1	0	0	9	0	1	0	0	16	4	4	0	5	Cox's Bazar.
3.6	+0.2	2.4	2.79	—3.14	1.33	16	4	—1.8	6.5	—0.1	0	5	3	16	6	0	0	0	0	0	0	0	2	11	13	3	1	0	Chittagong.
4.7	+1.2	3.1	5.05	—0.80	2.95	14	4	—2.5	7.9	+3.6	0	0	1	4	22	3	0	0	0	0	0	2	2	21	3	1	0	1	Comilla.
(b) 3.1	—1.1	(b) 1.9	2.55	—2.85	1.24	14	3	—3.7	(d) 4.7	+0.6	0	0	0	1	15	6	3	0	4	0	0	0	4	21	0	3	0	1	Narayanganj.
3.5	—0.5	1.5	3.13	—3.34	1.53	14	3	—3.9	4.5		1	0	1	2	17	6	0	1	2	0	0	0	6	11	4	4	0	5	Brahmanbaria.
4.7	+1.2	2.2	8.27	—1.44	1.90	18	7	—2.9	3.0	—0.6	0	0	5	2	12	1	4	0	6	1	0	4	0	12	0	1	0	12	Srimangal.
4.7	0	2.2	1.28	—4.23	0.92	16	2	—5.1	3.4	+1.0	0	0	2	19	0	0	0	0	9	1	0	0	16	0	0	0	0	13	Mymensingh.
																													EAST PAKISTAN (Deltaic)
3.1	0	1.9	1.93	—2.74	1.00	16	4	—2.3	6.8	+0.6	0	3	21	5	0	0	0	0	1	0	2	21	6	0	0	0	0	1	Faridpur.
4.1	+0.3	2.2	2.58	—1.65	1.43	16	3	—2.3	4.4	+1.3	1	0	1	0	18	4	4	0	2	0	0	0	4	19	2	0	0	5	Barisal.
1.7	—2.4	0.6	2.95	+0.04	2.45	14	2	—2.2	4.0	+0.1	0	1	0	1	9	8	1	0	10	0	1	0	3	22	3	0	0	1	Khulna.
1.8	—1.5	1.3	1.61	—1.92	1.20	16	3	—1.8	5.1	+2.3	1	0	0	2	11	10	1	3	2	1	0	0	2	10	6	3	2	6	Jessore.
																													Satkhira (R).
																													KASHMIR
																													Srinagar. †
																													Gulmarg. †
																													Dras. †
																													Leh. †
																													Skardu. †
																													Gilgit. †
5.9		7.2	0.73		0.20	1	2		4.5		0	0	7	0	0	0	6	0	17	1	0	14	0	3	0	0	0	3	Misgar.
																													NORTH PUNJAB
1.7	—0.6	2.1	0.12	—0.45	0.09	2	0	—1.6	3.4	+1.4	8	7	1	1	0	0	0	5	10	2	3	0	1	0	1	12	9	2	Lahore.
2.2	+0.3	3.4							2.7	+0.8	8	5	1	0	0	0	1	8	7	2	2	1	0	1	0	7	11	6	Sialkot.
2.4		2.9	0.89		0.39	18	3		2.5		3	2	1	0	0	0	1	14	9	2	0	0	2	2	1	5	10	8	Jhelum.
2.6	0.0	3.6	0.28	—1.64	0.05	2	0	—4.1	2.9	+0.5	2	0	0	0	0	1	3	0	24	2	0	0	0	3	2	8	4	11	Rawalpindi.
																													Khushab (R).
2.2	—0.9	2.4	1.28	+0.81	0.16	2	2	+0.7	1.7	—0.5	4	3	1	1	0	1	2	4	14	3	1	1	0	1	4	7	9	4	Lyallpur.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION	Height of bar. cistern above M.S.L. in feet	Pressure at station level in millibar: Mean 0300 hrs. G. M. T.	Pressure at station level in millibar: Departure from normal	Pressure at station level in millibar: Mean 1200 hrs. G. M. T.	Pressure at M. S. L.: Mean 0300 hrs. G. M. T.	Pressure at M. S. L.: Mean 1200 hrs. G. M. T.	Maximum temperature °F: Mean	Maximum temperature °F: Departure from normal	Maximum temperature °F: Highest	Maximum temperature °F: Date	Minimum temperature °F: Mean	Minimum temperature °F: Departure from normal	Minimum temperature °F: Lowest	Minimum temperature °F: Date	Dry bulb temperature °F: Mean 0300 hrs. G. M. T.	Dry bulb temperature °F: Mean 1200 hrs. G. M. T.	Wet bulb temperature °F: Mean 0300 hrs. G. M. T.	Wet bulb temperature °F: Mean 1200 hrs. G. M. T.	Vapour pressure millibars: Mean 0300 hrs. G. M. T.	Vapour pressure millibars: Departure from normal	Vapour pressure millibars: Mean 1200 hrs. G. M. T.	Relative humidity %: Mean 0300 hrs. G. M. T.	Relative humidity %: Departure from normal	Relative humidity %: Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SOUTH PUNJAB																								
Montgomery ...	558	988.3	—0.1	986.0	1007.7	1004.8	91.4	—4.3	103	28	62.0	—4.6	47	6	72.4	90.1	59.3	64.4	11.3	—4.3	10.2	44	—12	19
Multan (R) ...	413																							
Fort Abbas ...	475	994.0		990.1	1007.1	1003.7	95.8		108	29, 30	54.5		53	3, 24	76.1	93.8	60.4	66.8	11.2		10.3	37		21
Bahawalpur ...	384	995.0	0.0	991.2	1008.5	1004.1	93.8	—2.6	105	28	63.1	—2.3	52	3	71.8	93.0	61.4	69.7	13.9	—2.1	14.2	53	+3	27
Khanpur (R) ...	297																							
N.-W. F.P. (Upper)																								
Chakdara ...	2,225	934.9		932.4	1011.9	1007.2	77.1		91	29	53.8		47	3	58.7	75.1	53.2	60.0	11.6		11.5	61		42
Peshawar ...	1,175	969.1	—0.8	966.9	1009.9	1006.7	80.1	—5.1	94	29	56.0	—4.5	48	24	67.4	78.3	58.8	60.8	13.0	—0.7	10.3	58	+2	35
Landikotal (R) ...	3,503																							
N.-W. F. P. (Lower)																								
Bannu ...	1,264	964.7		962.5	1008.6	1005.2	82.4	—6.0	94	27	60.5	—1.6	50	4	68.1	80.6	57.7	62.4	11.5	—1.5	11.6	52	+1	34
Miranshah * ...	3,026																							
D. I. Khan ...	570	985.0	—3.7	986.7	1008.6	1006.0	86.4	—6.2	97	27, 28	61.9	—3.3	51	5	70.1	84.7	59.2	64.0	12.2	—3.8	11.0	50	—6	27
BALUCHISTAN (North)																								
Fort Sandeman ...	4,614	838.3	—0.5	855.9	898.1	894.4	75.7	—4.6	84	12, 27	52.5	—2.0	43	2, 3	57.7	74.1	46.0	52.1	5.9	—2.1	4.5	40	—23	18
Hindubagh ...	5,950	819.5		818.0	797.1	795.3	70.0		81	27	46.0		37	5	55.8	67.6	45.9	52.0	7.0		7.9	48		34
Loralai ...	4,699	855.1		853.3	897.7	894.8	74.5		85	30	47.2		38	2	55.4	72.1	45.8	53.7	7.2		7.5	44		27
Sibi ...	441	992.7	+0.3	989.2	1008.1	1003.8	95.5	—2.2	105	27, 28, 30	68.3	—1.8	58	3, 4, 7	75.2	93.8	60.7	65.8	11.5	+1.7	8.5	39	+8	21
Quetta ...	5,490	830.9	—1.9	829.0	794.9	794.1	68.6		78	28	43.8		33	21	54.0	67.5	49.9	59.3	10.8	+1.7	14.2	76	+13	62
Quetta (Samungli) ...	5,307	841.0		839.0	797.3	795.8	70.1		80	11, 27, 28	41.1		28	21	52.8	68.1	46.2	56.0	6.6		10.9	64		48
Chaman ...	4,311	869.8	+1.8	868.5	900.9	898.2	74.3	—4.3	85	27	51.9	—4.1	38	3	54.2	61.0	48.0	52.4	9.5	+0.8	12.6	56	+11	49
Nushki ...	3,412	901.3		898.8	903.1	900.1	80.8		92	27	56.5		40	2	66.0	79.3	51.2	55.3	6.9		5.1	33		17
Kalat ...	6,616	799.7	+0.1	798.5	797.1	795.9	65.8	—5.2	76	26	39.4	—4.1	30	20	50.3	62.7								
Dalbandin ...	2,785	917.0	+1.2	914.0	898.6	883.0	84.7	—4.5	93	27	53.4	—4.5	43	2, 4, 5	63.1	83.2	51.2	63.9	8.0	—1.2	24.7	42	—3	33
Nokkundi ...	2,229	934.1		932.0	1010.3	1005.3	87.1	—3.1	99	11, 13, 14	62.6	—0.5	47	2	69.1	85.7	53.2	63.3	8.1	—2.9	11.9	31	—14	26
BALUCHISTAN (South)																								
Las Bela ...	292	999.6	+0.2	996.7	1009.0	1005.2	98.1	+0.4	110	10					77.0	97.5	65.7	78.2	17.5	—4.6	25.9	57	—11	40
Ormara ...	15	1008.4		1005.4	1008.9	1005.9	90.6	+1.0	101	30	72.4	—0.7	61	6	77.7	83.4	70.0	70.5	21.7	—4.0	19.6	68	—16	44
Pasni ...	10	1008.9	—0.4	1006.1	1009.2	1006.4	91.3	+0.6	103	13	65.3	—2.5	60	4 days	74.1	85.9	64.8	70.7	16.7	—7.0	18.8	60	—21	44
Turbat ...	510	993.4		989.7	1010.0	1006.6	98.6		110	13	66.7		58	5	77.9	97.7	62.9	71.7	12.9		14.8	40		25
Panjgur ...	3,177	903.7	+0.6	901.7	898.1	896.3	83.2	—5.3	94	2					61.9	82.8	51.0	59.9	8.0	—4.6	7.4	44	—19	22
SIND (Upper)																								
Reti ...	280	998.9		995.6	1008.8	1005.1	97.6		109	28	62.3		52	24	71.7	95.9	59.9	72.6	12.9		16.2	46		32
Jacobabad ...	183	1001.5	+0.3	998.1	1007.9	1004.3	96.8	—2.8	106	27, 28	68.9	—1.8	58	3	76.7	92.7	61.6	70.8	12.5	—4.2	16.9	39	—7	25
Sukkur ...	221	999.7	—0.9	996.6	1007.5	1004.0					65.8	—2.6	55	3	70.3	95.7	58.0	65.9	10.9	—4.4	8.3	44	—7	15
Pad Idan ...	153	1002.8		999.5	1008.1	1004.6	98.8		107	28	65.0		51	3	75.9	97.0	60.5	65.7	11.0		8.7	37		13

* Data rejected. (R) Register not received.

0300 HRS. G. M. T. AND 1200 HRS. G. M. T. APRIL 1950.

Cloud Amount (Eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction—Number of Winds from :-																				
											0300 hrs. G.M.T.									1200 hrs. G.M.T.										
Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	STATION
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
			"	"	"																								
																													SOUTH PUNJAB.
1.2	—0.4	0.7	0.07	—0.27	0.07	2	0	—0.9	0.7	—2.6	0	0	0	7	1	7	0	2	13	1	2	1	0	2	2	4	3	15	Montgomery.
																													Multan. (R)
1.3		1.4	0.27		0.27	2	1		5.5		2	6	5	8	5	1	0	3	0	7	2	0	1	2	1	7	9	1	Fort Abbas.
1.5	—0.3	1.0	0.00	—0.18	0.00		0	—0.5	2.4	—0.2	3	2	1	1	2	2	0	1	18	3	0	2	0	1	4	4	1	15	Bahawalpur.
																													Khanpur (R).
																													N. W. F. P. (Upper)
2.5		3.7	3.45		1.94	2	5		4.1		4	1	2	0	2	10	3	3	5	5	6	6	1	2	5	3	2	0	Chakdara.
2.7	—1.0	3.9	4.06	+2.30	2.14	2	5	+1.2	2.7	+0.8	1	0	0	1	0	1	1	0	26	4	2	3	2	1	4	1	4	9	Peshawar.
																													Landikotal (R).
																													N. W. F. P. (Lower)
2.8	+1.1	3.7	4.76	+3.78	2.74	2	6	+3.5	3.5		0	1	0	1	2	0	7	5	14	1	0	1	7	12	1	2	1	5	Bannu.
																													Miranshah *.
1.8	—0.4	2.3	1.40	+0.71	0.80	3	4	+2.3	2.8	+1.1	5	7	0	0	0	1	4	3	10	6	6	1	4	0	0	1	0	12	D. I. Khan.
																													BALUCHISTAN (North)
2.2	+0.2	3.4	1.93	+0.99	0.94	3	3	—0.1			0	0	0	0	0	1	0	0	29	0	1	0	0	2	1	1	5	20	Fort Sandeman.
1.4		1.8	1.59		0.95	2	2				0	0	3	0	4	10	9	3	1	0	0	1	1	1	15	10	2	0	Hindubagh.
2.0		2.6	1.27	+0.32	1.08	1	2	—0.4	5.0		0	0	0	0	0	0	16	2	12	2	0	1	1	5	0	10	1	10	Loralai.
2.1	+0.2	3.1	0.87	+0.76	0.83	2	1	+0.6	3.7	+0.4	1	1	2	1	0	1	4	5	15	0	1	3	4	1	5	9	5	2	Sibi.
1.6	—0.5	3.3	0.87		0.74	1	1		3.9	+1.1	6	6	2	1	7	3	3	1	1	6	1	0	0	1	6	4	12	0	Quetta.
2.1		3.0	0.72		0.57	1	2		6.3		0	1	3	3	0	3	6	3	11	0	1	1	1	0	5	13	9	0	Quetta (Samungli).
2.2	—0.2	3.6	1.21	+0.44	0.91	1	2	0.0	5.7	+0.7	1	0	5	6	6	6	0	0	6	1	0	0	1	2	5	13	8	0	Chaman.
2.4		3.3	0.37		0.37	1	1		8.3		2	8	11	2	0	2	1	4	0	2	1	0	0	4	3	10	10	0	Nushki.
1.2	—0.6	3.0	0.60	+0.04	0.47	1	2	+0.2	6.5	+1.9	1	1	0	13	5	1	0	3	6	0	1	0	1	1	3	0	24	0	Kalat.
1.5	—0.4	2.8	0.00	—0.30	0.00		0	—0.7	4.1	—0.2	0	7	4	1	0	2	2	1	13	0	5	3	3	1	7	5	0	6	Dalbandin.
1.0	—0.9	1.9	0.09	—0.26	0.09	28	0	—0.4	5.1	—0.3	8	0	1	0	4	1	1	4	11	2	0	0	2	1	0	5	11	9	Nokkundi.
																													BALUCHISTAN (South)
0.7	—0.7	1.2	0.00	—0.54	0.00		0	—1.2	1.2	—1.3	0	1	1	0	0	1	0	0	27	3	0	5	6	0	2	0	0	14	Las Bela.
1.8	0	1.7	0.00	—0.60	0.00		0	—0.8	11.3	+1.7	0	2	1	1	0	6	10	3	7	0	0	0	1	6	11	10	2	0	Ormara.
1.3	—0.1	1.1	0.00	—0.40	0.00		0	—0.5	7.4	+0.8																			Pasni.
0.0		0.0	0.00		0.00		0		4.0		0	4	6	0	0	1	0	2	17	0	2	0	1	1	5	13	6	2	Turbat.
2.3	+1.0	3.4	0.32	—0.07	0.32	1	1	+0.2	4.8	+0.1	3	16	1	1	1	1	0	2	5	1	4	0	0	0	7	4	14	0	Panjgur.
																													SIND (Upper)
1.0		0.9	0.00		0.00		0		6.1		2	10	2	0	0	1	6	3	6	2	1	0	0	3	2	9	12	1	Reti.
1.7	+0.5	2.1	0.07	—0.10	0.07	1	0	—0.5	6.6	+1.9	5	1	7	3	1	0	2	8	3	2	0	1	2	7	3	3	12	0	Jacobabad.
1.8	+0.5	2.8	0.00	—0.10	0.00		0	—0.4	3.5	+0.1	7	8	3	5	3	2	0	0	2	5	1	0	2	3	8	3	5	3	Sukkur.
1.9		2.1	0.00		0.00		0		4.7		6	6	2	4	1	3	0	5	3	6	4	1	1	5	1	4	6	2	Pad Idan.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION	Height of bar. cistern above M. S. L. in feet	Pressure at station level in millibars			Pressure at M. S. L.		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure millibars			Relative humidity %		
		Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Mean 0300 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0300 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0300 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SIND (Lower)																								
Umarkot ...	55	1005.4		1001.9	1007.2	1003.7					67.1		57	3	78.1	99.7	68.0	71.0	18.9		13.2	58		22
Hyderabad ...	96	1005.0	+1.9	1001.8	1008.4	1005.0	101.0	—0.8	111	11, 12	69.2	—2.7	61	4	77.2	98.7	64.0	67.6	14.4	—3.1	9.1	45	—7	14
Karachi (Drigh Road)	73	1006.1		1003.3	1008.7	1005.9	95.7		107	13	67.8		56	5	76.6	89.4	67.0	71.9	18.3		18.8	60		41
Karachi (Manora) ...	13	1008.0	—0.7	1005.7	1008.5	1006.1	85.8	+0.4	96	24	73.4	—0.8	64	4	76.6	82.3	69.3	74.0	21.3	—4.7	25.8	72	—11	68
Badin ...	31	1006.9	—0.9	1003.8	1008.0	1001.5	102.5	+2.1	110	12, 13	67.9	—2.2	60	4	76.8	99.4	67.0	71.6	18.5	—3.8	13.4	58	—8	23
HILL STATIONS (excluding Kashmir and Baluchistan)																								
Murree ...	7,113	782.6	—1.5	782.2	794.4	793.8	59.8	—5.5	72	29	44.5	—2.4	36	3	52.1	56.6	42.2	46.4	5.6	—1.5	7.1	46	—3	49
Cherat ...	4,272	868.5	—0.3	867.4	897.8	896.1	65.3	—6.8	83	29	52.7	—3.1	40	3	57.3	66.5	47.1	51.6	6.9	—2.1	7.0	46	—8	36
Drosh ...	4,806	854.3		851.4	900.8	896.7	65.1	—3.8	77	27	46.5	—1.9	36	2, 3	49.8	61.7	43.7	48.1	7.2	—1.6	6.0	61	+2	37
Parachinar ...	5,673	824.9	—1.0	823.8	794.4	793.9	65.6	—3.1	76	27, 28	44.1	—2.8	36	2	52.4	61.6	43.3	48.8	6.3	—2.1	7.4	49	—9	42
Wana (R) ...	4,456																							
AFGHANISTAN																								
Jalalabad (R) ...	1,950																							
Kabul ...	5,955	819.6		818.3	798.4	797.7	62.8	—2.5	75	28	40.8	—1.9	33	24	46.1	60.5	39.3	46.2	5.7	—1.7	5.5	55	—4	36
Kandahar ...	3,462	901.6		899.4	905.2	902.7	76.8		88	11, 27	46.1		36	21	55.2	75.0	48.5	58.1	8.9		9.7	61		33
IRAN																								
Jask (R) ...	13																							
ARABIA																								
Muscat ...	15	1009.9		1008.6	1010.4	1009.1	84.2	—4.1	98	14	75.9	—2.8	68	4, 7	79.2	81.5	67.3	63.9	17.2		12.1	54		58
Kuwait ...	16	1012.6		1009.3	1013.1	1009.8	80.8		90	25	65.1		55	4, 9	72.7	79.4	65.4	70.6	18.3		21.4	65		62

(R) Register not received

Cloud Amount (Eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction—Number of Winds from :—																	STATION
											0300 hrs. G. M. T.									1200 hrs. G. M. T.								
Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																													SIND (Lower)
0.0		0.2	0.00		0.00		0		4.6		8	3	2	0	9	5	3	0	0	5	1	0	0	0	3	6	15	0	Umarkot.
2.2	+1.0	1.6	0.00	—0.07	0.00		0	—0.2	3.7	—1.9	8	2	0	0	0	15	0	1	4	2	8	4	0	3	13	0	0	0	Hyderabad.
2.1		2.0	0.00		0.00		0		7.4		3	3	0	0	0	2	9	3	10	0	0	0	0	1	18	11	0	0	Karachi (Drigh Road).
1.4	—0.7	1.5	0.00	—0.15	0.00		0	—0.2	7.2	—1.2	2	5	0	0	0	3	10	2	8	0	0	0	0	0	14	16	0	0	Karachi (Manora)
0.0	—1.2	0.0	0.00	0.00	0.00		0	0	4.3	—4.1	7	0	0	0	1	3	15	3	1	3	0	1	1	0	4	11	4	6	Badin.
																													HILL STATIONS (excluding Kashmir and Baluchistan)
3.7	+0.6	4.9	3.25	—0.88	1.22	2	6	—1.1	6.9	+1.7	0	7	6	11	0	0	0	2	4	0	2	6	4	0	1	4	3	10	Murree.
1.4	—1.3	2.2	4.21	+1.43	2.30	2	5	+0.3	9.6	+2.4	16	0	0	0	2	2	1	8	1	10	3	1	2	3	3	1	5	2	Cherat.
3.8	+0.7	5.3	5.06	+0.98	1.38	2	10	+1.9	3.7	+1.1	0	2	3	1	0	2	0	0	22	2	3	2	1	1	4	4	2	11	Drosh.
2.3	—0.6	5.0	4.37	+0.34	1.85	2	8	—0.7	3.9	+1.5	1	5	6	1	0	2	7	3	5	2	0	7	6	5	2	2	4	2	Parachinar.
																													Wana. (R)
																													AFGHANISTAN
																													Jalalabad (R)
2.7	—0.3	4.5	3.09	—0.21	0.91	2	7	+0.7	3.9	+1.9	1	1	0	1	8	9	5	4	1	8	5	1	1	3	2	3	4	3	Kabul.
1.6		2.6	0.74		0.39	2	2		1.8		0	0	0	0	0	0	0	3	27	1	0	0	0	0	15	1	2	11	Kandahar.
																													IRAN
																													Jask (R)
																													ARABIA.
1.2	—0.1	1.2	0.07	—0.27	0.07	24	0	—0.8	5.1	+1.7	1	1	0	0	1	0	7	16	4	0	1	1	1	0	0	1	15	11	Muscat.
1.3		1.7	0.00		0.00		0		2.8		0	2	1	2	2	1	8	5	9	1	0	12	13	0	0	0	0	4	Kuwait.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS.
April 1950

STATION	Maximum temperature °F				Minimum temperature °F				Mean dry bulb temperature 0300 hrs. G.M.T. °F	Mean wet bulb temperature 0300 hrs. G.M.T. °F	Vapour, Pressure, millibars		Relative humidity %		Mean cloud amount 0300 hrs. G.M.T.	Precipitation						Wind	
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date			Mean 0300 hrs. G.M.T	Departure from normal	Mean 0300 hrs. G.M.T.	Departure from normal		Total of the Month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more.	Departure from normal	Resultant direction 0300 hrs. G.M.T.	Velocity knots
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
																"	"	"					
EAST PAKISTAN (*North*)																							
Pabna	100.9	+4.1	107	23					86.1	74.2	23.2	—4.3	55	—17		1.70	—0.85	0.96	12	2	—2.5		
KASHMIR—																							
Jammu *																							
Kargil *																							

* Data not available.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 5TH CLASS STATIONS
April, 1950

DIVISION	STATION	PRECIPITATION					
		Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal
1	2	3	4	5	6	7	8
		"	"	"			
EAST PAKISTAN (*North*)	Rajshahi (R) ...						
	Rangpur ...	0.18	—2.90	0.18	14	1	—3.4
KASHMIR	Sonamarg * ...						
	Gurez * ...						
BALUCHISTAN (*North*)	Harnai ...	1.96	+1.84	1.34	2	2	+1.6

(R) Register not received.

* Data not available

PAKISTAN WEATHER REVIEW, 1950

Monthly Weather Report

MAY

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Chief features:— (1) Frequent spells of wet weather over the North-West Frontier Province, north Baluchistan and the north Punjab, during the first half of the month.

(2) Intermittent advance of the south-west monsoon over East Pakistan, from the middle of the month and subsequent establishment over East Pakistan on the 28th.

WEST PAKISTAN: During the first half of the month, eight western disturbances affected the extreme north of West Pakistan and together with their secondaries moving eastnortheastwards across north Baluchistan, caused frequent spells of wet weather especially over the North-West Frontier Province, north Baluchistan and the north Punjab.

The seasonal low over the Punjab and the adjoining Baluchistan, became marked, during the middle of the month. The accentuation of this low under the influence of low pressure waves moving northeastwards at higher latitudes caused wet weather in the North-West Frontier Province and the north Punjab, during the periods 19th to 21st; 23rd and 24th and 30th and 31st.

Some of the noteworthy amounts of rainfall recorded during the month were:—Miranshah, Parachinar 1" each on the 11th; Drosh 1" on the 12th; Khushab 1" on the 21st.

The mean actual rainfall during the month was in large excess in the lower North-West Frontier Province and south Baluchistan. It was in moderate defect in north Baluchistan and in large defect elsewhere. Averaged over the plains of West Pakistan, the rainfall was in moderate defect.

The mean maximum and minimum temperatures were normal over the region. Mean relative humidity was in excess in the north Baluchistan and upper Sind and in defect in south Baluchistan. Skies were more clouded than usual in upper Sind and less clouded than usual in the south Punjab, Baluchistan and lower Sind.

EAST PAKISTAN: Fairly frequent spells of thunderstorm activity with light to moderate showers occurred in East Pakistan, during the first twelve days of the month, due to continued penetration of moist air. Thereafter, thunderstorm activity tended to be more pronounced over the region, due to the accentuation of the seasonal trough over east central India and the passage of low pressure waves across north Bengal.

A trough of low extended from east Central to the north Bay of Bengal on the 17th and in the wake of its dissipation, advance of the southwest monsoon occurred in the southeastern districts of East Pakistan on the 19th. The consequent influx of moist air into East Pakistan gave rise to recurring spells of marked thunderstorms/showers over the region during the next six or seven days.

A depression which formed in the southwest Bay of Bengal, on about the 24th, deepened and moved northwestwards and lay at 0300 GMT. on 28th, about sixty miles southeast of Vizagapatam, weakening rapidly thereafter. In association with the movement of this depression, depth of monsoon air began to increase over East Pakistan, and by the 28th, monsoon established itself over the region, locally heavy downpours being recorded in the southeastern districts, during the end period of the month.

Some of the noteworthy amounts of rainfall recorded during the month were:—Jessore 2" on the 13th; Faridpur 2" on the 16th; Chittagong 2" on the 19th; Faridpur 4" on the 23rd; Chittagong 4"; Cox's Bazar 2" on the 30th; Comilla 3" on the 31st.

The mean actual rainfall during the month was in moderate defect over each of the sub-divisions and over the region as a whole. The mean maximum and minimum temperatures, relative humidity and cloudiness were normal over all the sub-divisions except that the mean maximum temperature was above normal in the Eastern sub-division.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud for the 5 chief divisions and 12 sub-divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—MAY 1950.

DIVISION.	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour Pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb	%	
1. East Pakistan	6·69	10·23	−3·54	− 35	+1·6	+0·9	+0·3	− 1	0·0
Mean of East Pakistan	6·69	10·23	−3·54	− 35	+1·6	+0·9	+0·3	− 1	0·0
2. Punjab	0·11	0·56	−0·45	− 80	+0·7	+1·5	+2·7	+ 4	+0·1
3. North-West Frontier Province ...	1·15	0·77	+0·38	+ 49	−0·9	−0·1	−0·6	− 1	+0·1
4. Baluchistan	0·27	0·27	0·00	0	0·0	−0·2	+1·7	+ 4	−0·4
5. Sind	0·00	0·15	−0·15	− 100	+0·1	+0·3	+1·2	+ 5	−0·2
Mean of West Pakistan excluding Baluchistan.	0·25	0·45	−0·20	− 44	+0·2	+0·8	+1·6	+ 4	0·0
SUB-DIVISION									
1. East Pakistan (North)... ...	4·85	8·48	−3·63	− 43	+1·8	+0·9	+0·9	− 2	+0·1
2. East Pakistan (East)	8·32	12·60	−4·28	− 34	+2·1	+1·2	+0·3	− 1	−0·2
3. East Pakistan (Deltaic) ...	6·09	8·43	−2·34	− 28	+0·8	+0·5	0·0	− 1	+0·2
4. Kashmir*									
5. North Punjab	0·13	0·76	−0·63	− 83	+1·1	+1·9	+2·0	+ 5	+0·3
6. South Punjab	0·08	0·27	−0·19	− 70	−0·1	+0·8	+4·1	+ 1	−0·3
7. North West Frontier Province (Upper)	0·21	0·77	−0·56	− 73	−0·4	−0·4	+0·2	+ 1	+0·4
8. North-West Frontier Province (Lower)	1·61	0·77	+0·84	+ 109	−1·5	+0·1	−1·4	− 2	−0·1
9. Baluchistan (North)	0·23	0·32	−0·09	− 28	−0·4	−0·5	+2·9	+ 8	−0·3
10. Baluchistan (South)	0·40	0·14	+0·26	+ 186	+0·9	+0·5	−1·1	− 6	−0·7
11. Sind (Upper)	0·01	0·14	−0·13	− 93	−0·7	−0·1	+3·5	+12	+0·1
12. Sind (Lower)	0·00	0·16	−0·16	−100	+0·6	+0·7	−0·3	0	−0·4

* Data incomplete.

TALBE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION	Height of bar. cistern above M.S.L. in feet.	Pressure at station level in millibars: Mean 0300 hrs. G. M. T.	Pressure at station level in millibars: Departure from normal	Pressure at station level in millibars: Mean 1200 hrs G. M. T.	Pressure at M. S. L.: Mean 0300 hrs G. M. T.	Pressure at M. S. L.: Mean 1200 hrs G. M. T.	Maximum temperature °F: Mean	Maximum temperature °F: Departure from normal	Maximum temperature °F: Highest	Maximum temperature °F: Date	Minimum temperature °F: Mean	Minimum temperature °F: Departure from normal	Minimum temperature °F: Lowest	Minimum temperature °F: Date	Dry bulb temperature °F: Mean 0300 hrs. G. M. T.	Dry bulb temperature °F: Mean 1200 hrs. G. M. T.	Wet bulb temperature °F: Mean 0300 hrs. G. M. T.	Wet bulb temperature °F: Mean 1200 hrs. G. M. T.	Vapour pressure millibars: Mean 0300 hrs. G. M. T.	Vapour pressure millibars: Departure from normal	Vapour pressure millibars: Mean 1200 hrs. G. M. T.	Relative humidity %: Mean 0300 hrs. G. M. T.	Relative humidity %: Departure from normal	Relative humidity %: Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
EAST PAKISTAN (North)																								
Sirajganj ...	48	1003.8		999.4	1005.5	1001.1	94.4		99	1, 3	75.1		68	2	83.7	86.6	78.4	75.9	30.8		26.4	78		71
Bogra ...	63	1003.3	−0.5	998.1	1005.4	1000.3	95.1	+2.7	105	24	75.2	+0.9	65	7	82.9	89.1	77.0	78.8	29.0	+0.2	28.5	76	−1	64
Dinajpur ...	123	1001.7	+0.1	996.4	1005.9	1000.5	94.8	+3.0	106	1, 24	75.0	+0.8	68	6, 9	83.0	90.4	76.5	78.4	28.2	+0.6	27.3	74	−3	58
EAST PAKISTAN (East)																								
Cox's Bazar ...	38	1005.3	−0.5	1002.4	1006.6	1003.7	90.8	+2.0	96	17	77.1	+1.2	74	15, 16	85.7	85.5	78.9	79.1	30.7	−0.7	30.3	74	−4	75
Chittagong ...	87	1003.5	−0.7	999.7	1006.4	1002.6	90.2	+1.3	101	11	77.2	+1.7	73	1, 23	85.8	84.5	78.2	78.9	29.9	−0.5	31.9	71	−6	77
Comilla ...	29	1005.1	−0.8	1001.1	1006.1	1002.1	92.1	+1.0	98	12	77.0	+2.1	71	9	85.3	88.1	78.4	79.7	29.6	−1.4	30.5	73	−2	69
Narayanganj ...	26	1004.3	−1.2	999.6	1005.2	1000.5	93.2	+2.1	98	12	76.2	+0.4	69	2, 10	86.3	87.6	79.7	79.8	31.5	+0.7	31.8	74	−3	73
Brahmanbaria ...	32	1005.2		1000.9	1006.2	1001.9	93.5	+1.5	99	13, 15	75.5	+2.7	70	4 days	84.6	87.0	78.2	79.3	30.3	+1.4	31.0	75	0	71
Srimangal ...	69	1004.3	−0.4	999.9	1006.6	1002.2	92.1	+1.0	97	12, 13, 14	73.2	+1.0	62	4	81.6	85.4	76.9	79.2	30.2	+1.3	31.1	81	0	76
Mymensingh ...	62	1004.1	−0.7	999.8	1006.3	1001.9	94.9	+5.6	100	1, 3, 4	73.2	−1.0	63	9	81.3	87.7	77.5	80.0	29.9	+1.3	32.1	84	+5	71
EAST PAKISTAN (Deltaic)																								
Faridpur ...	46	1004.1	−0.2	999.3	1005.7	1000.9	89.0	−2.7	93	1, 12, 13	75.3	+0.4	67	10	84.2	87.6	79.5	81.3	32.4	+1.1	33.8	80	+3	75
Barisal ...	11	1005.2	−0.6	1001.4	1005.6	1001.8	92.9	+1.2	97	11	78.5	+1.6	73	9, 15, 28	86.3	87.2	79.7	79.6	31.5	−0.8	31.0	74	−1	71
Khulna ...	16	1005.4	+0.2	1001.5	1005.9	1002.0	94.3	+1.4	97	13, 15, 23	77.1	+0.1	72	10, 22	87.6	87.7	79.8	79.4	31.8	−0.1	30.5	70	−5	69
Jessore ...	26	1004.3	−0.5	999.4	1005.2	1000.3	97.1	+3.2	100	8 days	75.8	0.0	69	15	86.2	91.4	79.5	80.4	31.5	−0.3	30.0	74	−3	61
Satkhira (R) ...	16																							
KASHMIR																								
Srinagar † ...	5,205																							
Gulmarg † ...	8,709																							
Dras † ...	10,059																							
Leh † ...	11,529																							
Skardu † ...	7,505																							
Gilgit (R) ...	4,890																							
Misgar ...	10,190	700.3		697.7	704.0	701.1									48.1	58.1	37.7	42.6	4.4		4.3	41		24
NORTH PUNJAB																								
Lahore ...	702	978.3	−0.5	975.4	1002.0	998.4	104.9	+1.2	112	4	75.3	+3.1	68	1, 2	86.6	102.3	72.0	77.0	20.2	+4.7	20.1	47	+11	29
Sialkot ...	830	974.6	−0.1	971.1	1001.9	998.2	103.6	+1.4	111	28	76.7	+2.4	70	8	86.1	100.7	68.6	75.0	15.9	+0.6	17.9	38	0	26
Jhelum ...	765	976.7		973.3	1002.8	998.5	101.9		110	28	71.4		66	1, 7, 9	82.9	99.1	70.2	77.1	19.2		21.7	52		35
Rawalpindi ...	1,674	946.9	−0.7	944.6	1002.6	998.9	98.5	+0.8	109	18, 28	69.2	+0.5	60	8	82.1	93.6	66.3	69.5	15.9	+1.7	14.9	41	+8	26
Khushab ...	616	981.1	−1.1	977.9	1001.9	998.5	104.0	+0.3	112	28	72.0	−4.3	64	1	82.1	101.7	64.1	71.9	12.4	−2.3	13.6	37	+3	19
Lyallpur ...	605	981.4	−0.7	978.3	1001.7	998.1	103.5	+1.1	113	18	75.5	+1.6	67	5, 8	85.5	101.0	67.9	72.6	15.4	+1.0	14.4	37	+1	22

† Data not available. (R) Register not received.

0300 HRS. G.M.T. AND 1200 HRS. G. M. T.—MAY 1950

Cloud Amount (Eighths of sky)			Precipitation.						Wind Velocity knots		Wind Direction—Number of Winds from :—																				STATION
											0300 hrs. G. M. T.									1200 hrs. G. M. T.										
Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date.	Days with 0.10" or more	Departure from normal	Mean.	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm.		
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54		55
			"	"	"																									
																														EAST PAKISTAN (North)
3.6		2.6							5.2		0	2	0	14	10	0	0	0	5	1	3	1	8	5	0	3	0	10		Sirajganj.
4.6	+0.3	4.3	6.76	−1.64	0.88	16	13	+3.4	3.0	+0.6	0	2	19	6	2	1	0	0	1	0	1	17	5	1	0	0	0	7		Bogra.
4.4	0.0	2.0	3.44	−3.90	0.77	7	7	−1.7	3.5	+0.5	0	16	10	0	1	0	0	0	4	2	8	10	1	1	0	0	0	9		Dinajpur.
																														EAST PAKISTAN (East)
3.3	−1.1	2.8	9.23	−3.51	2.07	30	10	−0.5	3.0	−0.6	0	0	3	3	10	2	0	0	13	0	0	0	0	12	8	5	0	6		Cox's Bazar.
4.0	−0.4	3.6	11.48	+1.06	3.90	30	10	−0.8	6.8	+0.4	0	2	5	16	6	1	0	0	1	0	0	0	7	9	10	4	0	1		Chittagong.
4.8	+1.0	3.2	9.79	−2.60	3.24	31	12	+0.2	6.4	+2.0	2	0	1	13	15	0	0	0	0	1	0	1	8	16	3	1	1	0		Comilla.
4.7	−0.1	3.3							3.8	−0.1	0	1	3	8	12	2	3	1	1	0	0	1	5	21	2	1	0	1		Narayanganj.
3.9		2.8	6.45	−5.34	1.35	21	12	+0.3	3.7		1	1	2	6	15	1	0	1	4	3	2	0	9	8	4	0	1	4		Brahmanbaria.
4.6	+0.4	4.7	7.78	−8.01	1.75	28	14	−1.3	2.1	−1.2	4	3	4	1	9	0	1	0	9	7	2	1	0	6	0	2	0	13		Srimangal.
5.1	−0.1	3.8	5.19	−7.27	1.11	16	13	0.0	3.2	+0.9	0	0	0	17	0	0	0	0	14	0	0	0	12	0	0	0	0	19		Mymensingh.
																														EAST PAKISTAN (Deltaic)
																														Faridpur.
5.2	+1.1	4.2	14.70	+5.08	3.85	23	14	+3.0	6.5	+0.1	0	10	15	1	0	0	0	0	5	1	14	14	0	0	0	0	0	2		Barisal.
5.5	+1.0	3.8	2.65	−5.60	0.67	29	7	−2.6	4.1	+1.0	0	2	3	6	16	3	0	1	0	0	0	0	4	21	4	0	0	2		Khulna.
4.1	−1.0	3.3	3.63	−4.12	1.37	17	7	−2.7	4.1	−0.1	0	1	0	5	20	2	0	1	2	0	0	2	5	20	0	0	1	3		Jessore.
4.0	−0.3	3.5	3.39	−4.73	1.75	13	6	−3.1	5.5	+2.4	0	1	4	5	15	2	1	0	3	0	0	3	4	22	0	0	0	2		Satkhira (R).
																														KASHMIR
																														Srinagar. †
																														Gulmarg †
																														Dras. †
																														Leh. †
																														Skardu. †
																														Gilgit (R).
4.3		6.3	0.42		0.12	24	1		5.6		3	0	7	0	0	0	2	1	18	0	0	17	0	1	0	12	0	1		Misgar.
																														NORTH PUNJAB
1.6	+0.1	1.5	0.14	−0.45	0.07	21	0	−1.3	3.0	+1.0	3	6	4	3	0	0	1	3	11	3	2	1	0	1	1	11	6	6		Lahore.
2.1	+0.9	2.2							3.2	+1.2	3	9	3	3	1	0	3	8	1	3	1	0	2	1	5	7	9	3		Sialkot.
2.7		2.8	0.68		0.38	24	2		3.1		3	0	4	1	1	2	4	7	9	2	1	2	2	2	7	2	6	7		Jhelum.
2.5	+0.8	3.2	0.00	−1.25	0.00	0	0	−2.5	3.1	+0.8	1	2	1	0	1	0	4	2	20	2	2	1	0	3	0	7	2	14		Rawalpindi.
1.7	+0.4	2.2	5.37	+4.41	2.90	31	3	+1.4	5.3	+0.5	2	5	8	3	0	2	2	1	8	1	5	0	14	1	7	1	1	1		Khushab.
1.1	−0.8	1.6	0.25	−0.18	0.15	7	1	−0.2	1.4	−1.0	5	3	3	1	4	1	3	1	10	6	2	1	0	3	2	2	2	13		Lyallpur.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION	Height of bar. cistern above M.S.L. in feet	Pressure at station level in millibars: Mean 0300 hrs. G. M. T.	Pressure at station level in millibars: Departure from normal	Pressure at station level in millibars: Mean 1200 hrs. G. M. T.	Pressure at M. S. L.: Mean 0300 hrs. G. M. T.	Pressure at M. S. L.: Mean 1200 hrs. G. M. T.	Maximum temperature °F: Mean	Maximum temperature °F: Departure from normal	Maximum temperature °F: Highest	Maximum temperature °F: Date	Minimum temperature °F: Mean	Minimum temperature °F: Departure from normal	Minimum temperature °F: Lowest	Minimum temperature °F: Date	Dry bulb temperature °F: Mean 0300 hrs. G. M. T.	Dry bulb temperature °F: Mean 1200 hrs. G. M. T.	Wet bulb temperature °F: Mean 0300 hrs. G. M. T.	Wet bulb temperature °F: Mean 1200 hrs. G. M. T.	Vapour pressure millibars: Mean 0300 hrs. G. M. T.	Vapour pressure millibars: Departure from normal	Vapour pressure millibars: Mean 1200 hrs. G. M. T.	Relative humidity %: Mean 0300 hrs. G. M. T.	Relative humidity %: Departure from normal	Relative humidity %: Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SOUTH PUNJAB																								
Montgomery ...	558	982.8	—0.7	980.0	1001.7	998.3	104.5	—0.9	114	18	76.3	—0.6	69	14	86.3	102.6	74.9	72.3	23.9	+2.8	12.5	36	—14	19
Multan (P.B.O.) ...	405	988.3		984.7	1001.5	997.8	105.7		117	28	78.2		67	1, 2	86.6	105.2	68.3	71.1	15.4		10.6	36		14
Fort Abbas ...	475	984.6		981.6	1001.2	996.9	110.2		118	23, 29	78.9		67	2	91.1	107.4	75.9	73.6	23.7		13.0	48		16
Bahawalpur ...	384	988.7	—0.4	985.2	1001.7	997.8	107.0	+0.8	116	29	78.1	+2.2	65	1	86.2	104.7	76.0	[illegible]	26.0	+5.5		63	+17	
Khanpur ...	297	992.1	—0.9	988.5	1002.1	998.1	110.0	+1.4	120	29	78.0	+1.7	70	14	86.7	108.4	72.8	75.6	21.0	+2.9	15.2	46	+3	20
N.-W. F.P. (Upper)																								
Chakdara ...	2,225	930.7		928.8	1005.4	1001.4	93.0		104	18	64.7		59	7, 8	74.4	90.0	63.8	68.9	15.9		15.6	55		33
Peshawar ...	1,175	964.2	—0.9	961.5	1003.7	1000.1	96.6	—0.4	107	19	70.0	—0.4	60	11	83.3	92.4	66.2	67.4	14.3	+0.2	13.2	37	+1	23
Landikotal ...	3,503	890.8		887.4	893.9	892.2	88.0		98	16, 17, 18					75.2	82.9	62.3	68.5	13.7		13.7	44		48
N.-W. F. P. (Lower)																								
Bannu ...	1,264	960.1		957.2	1002.4	998.6	99.0	—0.8	109	28	74.3	+2.8	65	11, 13	84.3	95.4	68.4	71.7	16.5	+2.1	15.8	41	+2	29
Miranshah * ...	3,026																							
D. I. Khan ...	570	983.6	0.0	980.0	1002.7	990.0	102.0	—1.5	111	18, 19	74.8	+0.1	69	4 days	84.5	101.4	69.5	75.9	17.8	—1.4	18.0	45	—2	24
BALUCHISTAN (North)																								
Fort Sandeman ...	4,614	856.8	+0.4	855.0	895.8	892.6	91.9	+1.4	103	28	64.3	+0.4	55	7	69.6	88.6	57.4	62.6	11.5	+2.4	8.9	42	—12	19
Hindubagh ...	5,950	818.6		816.4	796.0	794.2	84.2		96	28	57.6		48	8	71.2	81.3	54.0	61.7	8.0		11.8	44		34
Loralai ...	4,699	853.8		850.7	894.9	890.6	88.3		100	27	58.9		50	7	71.1	85.3	57.9	63.8	10.9		11.5	44		28
Sibi ...	441	987.1	—0.2	983.1	1001.8	997.3	110.0	+0.8	119	18, 29	78.9	—2.4	69	23	90.2	109.2	73.1	82.1	20.2	+7.6	25.1	42	+14	30
Quetta ...	5,490	830.1	—1.4	827.5	794.5	793.4	84.4		94	27, 28	52.2		45	13	66.2	82.3	59.9	70.2	15.3	+2.8	20.9	70	+16	55
Quetta (Samungli) ...	5,307	839.1		838.8	797.0	796.1	85.6		96	27	49.5		40	13, 14, 25	66.1	82.6	55.9	66.4	11.5		16.3	54		46
Chaman ...	4,311	866.1	—0.3	863.7	895.2	892.6	90.1	—0.3	101	27	65.1	0.0	58	4, 7	76.6	89.9	62.7	67.1	13.6	+4.1	14.5	45	+12	36
Nushki ...	3,412	896.7		894.4	898.4	896.1	97.7		108	27	70.4		60	2	81.0	95.8	59.8	66.3	9.0		10.2	25		18
Kalat ...	6,616	799.3	+0.4	797.7	796.8	795.2	80.3	—2.7	90	27					65.0	77.7	60.4	72.7	16.4	+5.8	25.9	77	+33	80
Dalbandin ...	2,785	913.1	—0.3	910.6	895.6	893.0	99.5	—0.8	111	27	65.5	—0.5	60	1	79.0	97.4	62.5	73.7	12.6	+2.2	18.8	36	+4	31
Nokkundi ...	2,229	930.5		927.6	1004.2	998.2	101.5	—0.9	115	27	74.8	+0.3	66	6	84.0	100.3	63.1	68.5	11.1	—4.4	10.6	29	—11	27
BALUCHISTAN (South)																								
Las Bela ...	292	994.4	—0.6	991.1	1004.2	999.5	106.7	+0.7	121	19					84.6	104.2	78.1	90.9	30.3	+0.7	42.7	74	—1	61
Ormara ...	15	1003.8		1000.7	1004.3	1001.2	93.2	+0.5	112	20	79.2	—0.3	76	7, 15	83.8	90.7	77.0	77.7	28.8	—1.8	27.1	74	—9	57
Pasni ...	10	1004.3	—0.9	1001.7	1004.5	1001.8	96.0	+1.7	116	20	75.6	+1.4	72	6 days	83.0	90.8	75.7	71.0	27.0	—2.3	16.9	73	—8	62
Turbat ...	510	988.7		983.7	1005.8	1001.3	110.3		120	16, 17					79.0	107.7	72.6	80.4	12.6		27.5	48		29
Panjgur ...	3,177	901.0	0.0	898.9	895.5	893.6	96.2	—1.7	107	27					75.1	95.4	60.6	65.9	12.1	—3.5	9.5	41	—13	17
SIND (Upper)																								
Reti ...	280	993.6		989.8	1003.1	998.9	110.4		119	29	77.3		67	14	86.2	108.8	77.3	86.3	27.8		32.8	66		38
Jacobabad ...	183	996.2	—0.1	985.9	1002.1	998.2	110.4	—0.7	121	29	80.0	+0.2	73	1, 6	88.3	108.8	78.8	89.2	29.3	+5.6	38.5	64	+17	46
Sukkur ...	221	994.1	—1.0	990.8	1001.7	998.1	106.6	—0.8	112	18, 31	79.1	—0.5	67	1	82.4	106.4	72.5	77.4	22.3	+1.4	18.5	60	+7	24
Pad Idan ...	153	997.1		993.6	1002.3	998.6	110.4		121	29	75.5		66	14	85.8	108.8	73.6	78.1	23.1		19.2	55		23

* Data rejected.

0300 HRS. G. M. T. AND 1200 HRS. G. M. T.—MAY 1950.

Cloud Amount (Eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction—Number of Winds from :-																				
											0300 hrs. G.M.T.									1200 hrs. G.M.T.										
Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	STATION
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
			"	"	"																								
																													SOUTH PUNJAB.
1.0	+0.1	0.9	0.00	—0.36	0.00	∅	0	—1.1	1.3	—2.4	0	6	0	1	5	12	0	1	6	2	1	2	1	0	4	4	2	15	Montgomery.
1.0		1.0	0.34		0.34	7	1		5.3		9	4	0	2	6	3	0	5	2	3	5	3	0	4	5	2	1	8	Multan. (P.B.O.)
0.8		0.7	0.09		0.09	7	0		6.9		4	3	4	3	6	7	2	2	0	5	2	2	0	1	2	14	5	0	Fort Abbas.
0.5	—0.6	0.4	0.16	—0.02	0.16	11	1	+0.5	3.1	0.0	4	4	2	0	2	5	1	0	13	1	0	2	0	1	3	4	0	20	Bahawalpur.
1.0	+0.4	0.4	0.03	—0.14	0.03	4	0	—0.4	5.0	+0.1	4	4	1	1	3	5	3	1	7	2	2	0	1	2	8	6	2	8	Khanpur.
																													N. W. F. P. (Upper)
2.3		3.2	0.30		0.30	10	1		4.3		2	0	1	2	5	4	5	3	9	0	4	6	7	0	5	0	2	7	Chakdara.
2.9	+0.4	4.1	0.21	—0.56	0.08	10, 11	0	—2.0	2.9	+0.6	0	1	0	2	0	0	0	0	28	2	7	5	3	2	2	2	3	5	Peshawar.
2.1		3.5	1.77		0.44	11	5		3.5		1	0	0	2	1	4	9	7	7	1	3	1	6	1	4	4	10	1	Landikotal.
																													N. W. F. P. (Lower)
1.5	+0.5	4.7	0.66	+0.05	0.28	31	3	+1.5	3.4		0	1	0	1	1	0	9	2	17	0	1	2	5	10	0	4	2	7	Bannu.
																													Miranshah *.
0.9	—0.1	1.1	0.03	—0.36	0.03	6	0	—1.0	3.2	+1.4	2	11	0	0	0	0	3	4	11	2	12	3	4	3	0	0	0	7	D. I. Khan.
																													BALUCHISTAN (North)
1.2	0.0	2.5	0.51	—0.40	0.37	4	1	—1.1			0	0	0	0	1	0	0	0	30	1	0	0	0	0	5	1	4	20	Fort Sandeman.
0.7		1.7	0.57		0.18	7	3				1	0	1	1	0	16	8	3	1	1	0	5	0	0	12	10	3	0	Hindubagh.
1.0		2.1	0.71	+0.11	0.35	8	2	+0.7	5.1		2	0	0	0	0	4	15	1	9	1	0	2	1	6	5	10	3	3	Loralai.
0.7	—0.3	1.7	0.00	—0.14	0.00		0	—0.5	3.9	—0.2	1	2	2	3	1	1	3	4	14	0	0	3	5	7	5	6	4	1	Sibi.
1.0	0.0	2.0	0.20		0.07	7	0		4.7	+2.3	5	6	1	3	4	2	2	3	5	4	1	0	3	3	2	7	11	0	Quetta.
1.0		2.3	0.21		0.08	9	0		6.0		2	0	2	5	1	1	4	3	13	1	0	0	5	1	2	6	15	1	Quetta (Samungli)
0.6	—0.4	2.0	0.28	+0.15	0.28	8	1	+0.6	4.9	—0.1	0	0	2	2	3	13	4	1	6	2	0	1	0	1	5	16	6	0	Chaman.
0.6		1.2	0.00		0.00		0		8.2		0	3	9	3	3	1	6	5	1	1	0	0	0	0	6	12	12	0	Nushki.
0.3	—0.5	1.7	0.00	—0.20	0.00		0	—0.7	6.2	+1.4	4	2	0	21	3	0	0	0	1	0	0	0	1	3	3	0	24	0	Kalat.
0.5	—0.4	1.2	0.09	+0.02	0.09	6	0	—0.2	4.7	+0.3	1	3	1	0	1	1	5	0	19	4	1	1	2	1	5	5	6	6	Dalbandin.
0.3	—0.7	1.5	0.10	+0.08	0.10	10	1	+1.0	6.8	—1.2	1	0	0	0	1	0	2	12	15	2	0	0	0	1	3	4	11	10	Nokkundi.
																													BALUCHISTAN (South)
0.3	—1.1	1.1	1.20	+0.78	1.20	7	1	+0.1	3.0	0.0	0	0	0	0	0	0	0	0	31	0	2	0	21	0	2	0	0	6	Las Bela.
2.1	+0.1	1.2	0.00	0.00	0.00		0	0.0	13.8	+3.2	0	0	3	0	0	13	14	0	1	0	0	0	0	2	15	14	0	0	Ormara.
0.6	—1.1	0.2	0.00	—0.01	0.00		0	0.0	10.2	+3.1	12	2	3	0	0	4	0	2	8	17	3	2	0	0	5	0	4	0	Pasni.
0.0		0.0	0.02		0.02	2	0		4.4		0	5	0	0	0	0	4	2	20	0	5	0	1	1	10	10	2	2	Turbat.
0.5	—0.1	1.9	0.00	—0.19	0.00		0	—0.3	4.2	—0.3	1	13	2	0	3	1	1	4	6	1	5	0	0	0	9	0	16	0	Panjgur.
																													SIND (Upper)
0.5		0.4	0.00		0.00		0		6.6		1	8	0	2	5	10	3	2	0	1	3	0	1	3	3	13	7	0	Reti.
0.6	+0.1	0.9	0.01	—0.13	0.01	6	0	—0.4	7.0	+2.7	6	0	5	8	6	1	1	3	1	1	1	2	3	11	4	2	5	2	Jacobabad.
0.4	0.0	0.7	0.00	—0.14	0.00		0	—0.2	3.2	—0.2	4	3	3	7	5	7	0	0	2	2	3	0	3	6	4	12	1	0	Sukkur.
0.1		0.8	0.00		0.00		0		5.9		3	5	1	13	5	2	2	0	0	5	3	0	4	10	6	1	2	0	Pad Idan.

STATION	Height of bar. cistern above M. S. L. in feet	Pressure at station level in millibars: Mean 0300 hrs. G.M.T.	Pressure at station level in millibars: Departure from normal	Pressure at station level in millibars: Mean 1200 hrs. G.M.T.	Pressure at M. S. L.: Mean 0300 hrs G.M.T.	Pressure at M. S. L.: Mean 1200 hrs. G.M.T.	Maximum temperature °F: Mean	Maximum temperature °F: Departure from normal	Maximum temperature °F: Highest	Maximum temperature °F: Date	Minimum temperature °F: Mean	Minimum temperature °F: Departure from normal	Minimum temperature °F: Lowest	Minimum temperature °F: Date	Dry bulb temperature °F: Mean 0300 hrs. G.M.T.	Dry bulb temperature °F: Mean 1200 hrs. G.M.T.	Wet bulb temperature °F: Mean 0300 hrs. G.M.T.	Wet bulb temperature °F: Mean 1200 hrs. G.M.T.	Vapour pressure millibars: Mean 0300 hrs. G.M.T.	Vapour pressure millibars: Departure from normal	Vapour pressure millibars: Mean 1200 hrs. G.M.T.	Relative humidity %: Mean 0300 hrs. G.M.T.	Relative humidity %: Departure from normal	Relative humidity %: Mean 1200 hrs. G.M.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SIND (Lower)																								
Umarkot ...	55	1000.8		997.5	1002.7	999.2	106.5		112	15	76.2		70	1	86.0	106.4	76.0	78.9	26.1		20.8	62		27
Hyderabad ...	96	999.9	—0.7	996.7	1003.2	999.9	107.8	+0.8	115	15	78.7	+0.5	74	1, 9	85.5	103.6	75.6	77.4	25.6	+2.1	20.9	62	+3	29
Karachi (Drigh Road)	73	1001.6		999.2	1004.2	1001.8	96.8		107	2	78.7		72	14	82.9	90.3	77.3	78.8	29.5		28.4	76		60
Karachi (Manora) ...	13	1003.6	—1.4	1001.4	1004.1	1001.8	88.2	—0.4	93	1	80.0	+1.0	77	1	82.0	85.9	77.9	79.9	30.9	—0.1	32.3	83	—2	76
Badin ...	31	1002.8	—0.4	999.6	1003.9	1000.5	105.3	+1.4	113	14					87.0	101.0	76.0	80.0	25.7	—2.8	25.4	70	0	33
HILL STATIONS (excluding Kashmir and Baluchistan)																								
Murree ...	7,113	783.1	—0.3	782.5	794.6	793.9	74.0	—1.1	82	17	55.7	+0.1	49	8, 24	64.4	69.6	51.6	55.1	8.5	0.0	9.7	43	+2	41
Cherat ...	4,272	866.0	—0.2	865.6	894.4	893.1	85.7	+0.4	97	17	66.2	—0.2	54	10	71.5	82.0	56.6	60.8	9.6	—0.6	9.6	37	—4	27
Drosh ...	4,806	852.7		849.3	897.7	893.1	81.6	+0.1	94	16, 17	59.3	+0.3	50	6	64.3	77.5	52.1	58.0	9.8	—1.3	8.3	52	—5	31
Parachinar ...	5,673	824.0	—0.3	823.3	794.4	794.4	79.4	—0.1	90	19, 28	56.3	+0.7	49	7, 11	67.0 (c)	73.1 (a)	53.9	57.2	9.5	—0.3	10.2	44	—2	43 (a)
Wana ...	4,456	860.3		860.3	895.9	892.3	88.3	—0.6	101	27	58.6	—1.4	50	8	69.3	84.7	56.8	60.4	10.6	+0.5	8.1	47	+5	23
AFGHANISTAN																								
Jalalabad (R) ...	1,950																							
Kabul ...	5,955	819.0		818.0	798.4	798.0	77.2	—1.0	89	18	51.0	—0.1	45	6	57.5	73.5	49.6	55.6	9.2	+0.3	8.1	59	+12	34
Kandahar ...	3,462	896.5		893.7	899.9	896.8	91.0		99	17, 28	57.0		50	1	67.9	88.0	59.8	70.8	14.5		19.0	61		42
IRAN																								
Jask (R) ...	13																							
ARABIA																								
Muscat ...	15	1004.0		1003.1	1004.9	1004.0	93.9	—2.4	102	17, 18	84.4	—1.3	77	6	87.4	89.5	76.0	78.0	25.4		27.5	59		61
Kuwait ...	16	1007.7		1002.0	1008.2	1002.5	90.3		103	23	76.0		62	9	80.6	88.5	70.2	74.4	24.0		20.7	59		51

(R) Register not received (a) Mean of 30 days. (c) Mean of 28 days.

Cloud Amount (Eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction—Number of Winds from :—																	STATION
											0300 hrs. G. M. T.									1200 hrs. G. M. T.								
Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																													SIND (Lower)
0.4		0.0	0.00		0.00		0		7.9		0	0	0	0	12	18	1	0	0	0	0	0	0	2	22	3	4	0	Umarkot.
0.3	—0.2	0.7	0.00	—0.19	0.00		0	—0.4	6.8	—0.9	0	0	0	0	0	30	1	0	0	0	4	0	1	0	25	0	1	0	Hyderabad.
2.8		1.3	0.00		0.00		0		10.8		0	0	0	1	1	7	17	1	4	0	0	0	1	2	16	12	0	0	Karachi (Drigh Road).
2.7	+0.1	1.9	0.00	—0.06	0.00		0	—0.1	9.2	—0.9	0	0	0	0	1	7	14	4	5	0	0	0	0	1	12	18	0	0	Karachi (Manora)
0.0	—1.2	0.0	0.00	—0.22	0.00		0	—0.2	6.0		0	0	0	0	2	11	17	0	1	0	0	0	0	5	11	14	1	0	Badin.
																													HILL STATIONS (excluding Kashmir and Baluchistan)
3.5	+1.5	3.7	1.30	—1.32	0.43	13	3	—1.8	7.0	+2.5	1	6	11	4	0	1	1	1	6	0	6	7	1	0	4	2	5	6	Murree.
1.6	—0.1	2.7	0.74	—0.91	0.36	10	2	—0.7	9.6	+2.7	13	1	0	1	1	0	2	10	3	5	3	2	4	8	2	3	3	1	Cherat.
3.2	+1.2	4.5	4.24	+2.33	1.12	12	11	+6.5	3.7	+0.6	0	3	3	0	0	1	1	0	23	1	2	2	1	1	6	5	0	13	Drosh.
1.8	0.0	4.3	2.99	+0.68	1.00	11	9	+6.3	3.2	+0.6	0	1	4	2	0	5	8	4	7	2	5	3	10	2	4	2	2	1	Parachinar.
0.8	—0.7	2.7	0.97	+0.15	0.56	10	2	—0.3	3.6		0	0	2	2	5	8	0	1	13	0	0	6	14	1	5	2	3	0	Wana.
																													AFGHANISTAN
																													Jalalabad (R)
2.2	+0.4	4.3	1.56	+0.71	0.47	5	3	+0.5	3.0	+1.0	0	0	0	1	7	8	6	5	4	10	9	1	0	0	2	3	4	2	Kabul.
0.5		1.3	0.30		0.17	10	3		1.4		0	2	0	0	0	1	0	1	27	0	1	0	0	0	12	0	6	12	Kandahar.
																													IRAN
																													Jask. (R)
																													ARABIA.
0.2	—0.4	0.0	0.10	+0.10	0.07	5	0	0.0	4.1	+0.9	1	4	3	3	0	1	6	8	5	1	4	0	1	0	0	1	11	13	Muscat.
(a) 0.7		(a) 0.7	1.16		0.81	9	2		4.9		0	4	1	3	1	0	6	12	3	3	4	7	4	1	0	0	10	1	Kuwait.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS.
May, 1950

STATION	Maximum temperature °F				Minimum temperature °F				Mean dry bulb temperature 0300 hrs. G.M.T. °F	Mean wet bulb temperature 0300 hrs. G.M.T. °F	Vapour Pressure, millibars		Relative humidity %		Mean cloud amount 0300 hrs. G.M.T.	Precipitation						Wind	
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date			Mean 0300 hrs. G.M.T	Departure from normal	Mean 0300 hrs. G.M.T.	Departure from normal		Total of the Month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more.	Departure from normal	Resultant direction 0300 hrs. G.M.T.	Velocity knots
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
																"	"	"					
EAST PAKISTAN (*North*)																							
Pabna	94.4	−0.4	101	1					85.6	80.1	33.1	+1.9	78	−1		4.82	−2.53	1.05	9	11	+1.2		
KASHMIR—																							
Jammu *																							
Kargil *																							

* Data not available.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 5TH CLASS STATIONS
May, 1950

DIVISION	STATION	PRECIPITATION					
		Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal
1	2	3	4	5	6	7	8
		"	"	"			
EAST PAKISTAN (*North*)	**Rajshahi (R)** ...						
	Rangpur ...	4.36	−6.47	1.08	25	9	[illegible]
KASHMIR	**Sonamarg** * ...						
	Gurez * ...						
BALUCHISTAN (*North*)	**Harnai** ...	0.13	−0.37	0.07	5	0	−0.9

(R) Register not received. * Data not available.

PAKISTAN WEATHER REVIEW, 1950

Monthly Weather Report

JUNE

Published by the authority of the Government of Pakistan

Chief features:— (1) Intensification of the seasonal low over West Pakistan during the first three weeks.

(2) Spell of wet weather in the north Punjab and the upper North-West Frontier Province on the 22nd, due to the passage of an active western disturbance moving through the extreme north of West Pakistan.

(3) Intensification of a depression in the head Bay into a cyclonic storm on the 10th, and subsequent strengthening of the southwest monsoon over East Pakistan.

WEST PAKISTAN: The seasonal low lay accentuated over northeast Baluchistan, the lower North-West Frontier Province and the Punjab during the first three weeks.

Chief associated features were (i) widespread dust raising winds over the plains of West Pakistan and (ii) scattered light showers in the Punjab and the upper North-West Frontier Province.

An active western disturbance moving through the extreme north of West Pakistan caused rain/thundershowers in the north Punjab and the upper North-West Frontier Province on the 22nd. Subsequent passage of cold fronts associated with low pressure systems moving farther north of West Pakistan were also responsible for a few light showers over the north Punjab hills and the upper North-West Frontier Province on the 25th, 26th and 30th.

Some of the noteworthy amounts of rainfall recorded during the month were:—Murree 1½" and Sialkot 1" on the 22nd; and Murree 1" on the 30th.

The mean actual rainfall during the month was in large excess in the upper North-West Frontier Province and in large defect in the north Punjab and lower Sind. Elsewhere no rain fell. Averaged over the plains of West Pakistan it was in large defect.

The mean maximum and minimum temperatures were normal over the region except the north Punjab where mean minimum temperature was above normal. Mean relative humidity was normal. Skies were less clouded than usual in the Punjab, the lower North-West Frontier Province and north Baluchistan.

EAST PAKISTAN: Last month's monsoon activity continued unabated. It became vigorous during the middle of the month in association with a depression which appeared in the north Bay of Bengal on the 8th, deepened into a cyclonic storm and crossed the Sunderbans coast on the 10th and moved away northwards into the Indian region. Heavy falls were reported between 17th and 19th.

Another shallow depression formed at the head Bay of Bengal on the 23rd, intensified into a depression and crossed Sunderbans coast on the 24th. In its association fresh incursion of moist air took place into East Pakistan where monsoon remained active for the rest of the month.

According to press reports the floods in the district of Rangpur (town of Kurigram) washed away some lives, a number of livestock and many houses. The floods in the river Teesta inundated about 500 square miles of Rangpur district. The river Dharala was also in spate. Some damage was also done to crops.

Some of the noteworthy amounts of rainfall recorded during the month were:—Cox's Bazar 4" on the 10th; Khulna, Satkhira and Faridpur 3" each on the 11th; Rangpur 7", Bogra 5" Satkhira 3" on the 12th; Brahmanbaria 7', Cox's Bazar 5", Comilla 3" each on the 17th; Faridpur 7" on the 18th and 4" on the 19th; Cox's Bazar 4" on the 24th and 3" on the 25th; Bogra and Rangpur 3" each on the 26th; Satkhira 3" on the 27th.

The mean actual rainfall during the month was in large excess in the Deltaic sub-division, in slight excess in the Northern sub-division and normal in the Eastern sub-division of East Pakistan. Averaged over the region as a whole it was in slight excess.

The mean maximum and minimum temperatures and relative humidity were normal over the region. Skies were normally clouded over the region.

Table I contains the Divisional and Sub-divisional means of rainfall, temperature, humidity and cloud for the 5 chief-divisions and 12 sub-divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS— JUNE, 1950.

DIVISION.	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour Pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb	%	
1. East Pakistan	18·81	16·21	+2·60	+ 16	—0·5	+0·6	+0·4	+ 1	+0·3
Mean of East Pakistan	18·81	16·21	+2·60	+ 16	—0·5	+0·6	+0·4	+ 1	+0·3
2. Punjab	0·59	1·46	—0·87	— 60	+0·9	+1·8	+0·2	+ 2	—0·4
3. North-West Frontier Province ...	0·19	0·61	—0·42	— 69	—0·1	+0·3	—0·5	— 1	—0·5
4. Baluchistan	0·00	0·28	—0·28	— 100	e	—0·7	+1·1	+ 1	—0·5
5. Sind	0·11	0·43	—0·32	— 74	—0·7	—0·4	—0·7	0	+0·2
Mean of West Pakistan excluding Baluchistan.	0·36	0·97	—0·61	— 63	+0·2	+0·8	—0·2	+ 1	—0·2
SUB-DIVISION									
1. East Pakistan (North)... ...	16·69	13·93	+2·76	+ 20	—0·6	+0·4	+0·7	+ 2	+0·5
2. East Pakistan (East)	18·62	19·12	—0·50	— 3	—0·1	+1·0	+0·4	0	+0·3
3. East Pakistan (Deltaic) ...	22·09	12·49	+9·60	+ 77	—1·3	—0·3	+0·1	+ 2	+0·2
4. Kashmir*									
5. North Punjab	0·82	1·79	—0·97	— 54	+1·5	+2·2	+0·8	+ 2	—0·4
6. South Punjab	0·00	0·63	—0·63	— 100	—0·6	+0·9	—1·3	+ 1	—0·5
7. North West Frontier Province (Upper)	0·57	0·31	+0·26	+ 84	—0·3	+1·0	+0·4	+ 1	—0·4
8. North-West Frontier Province (Lower)	0·00	0·76	—0·76	— 100	0	—0·4	—1·5	— 2	—0·7
9. Baluchistan (North)	0·00	0·30	—0·30	— 100	+0·3	—1·1	+1·1	+ 1	—0·4
10. Baluchistan (South)	0·00	0·24	—0·24	— 100	—0·8	+0·3	+1·1	0	—0·5
11. Sind (Upper)	0·00	0·20	—0·20	— 100	—1·2	—1·0	—1·3	0	—0·1
12. Sind (Lower)	0·18	0·59	—0·41	— 69	—0·5	+0·2	—0·3	0	+0·3

* Data incomplete.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION	Height of bar. cistern above M.S.L. in feet.	Pressure at station level in millibars			Pressure at M. S. L.		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure millibars			Relative humidity %		
		Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs G. M. T.	Mean 1200 hrs G. M. T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
EAST PAKISTAN (North)																								
Sirajganj ...	48	997.2		994.0	998.9	995.7	89.5		97	9	77.7		74	14, 20	82.4	84.4	79.6	81.7	32.5		35.6	88		89
Bogra ...	63	997.0	—2.4	994.4	999.2	996.6	89.7	—0.1	97	7	78.1	+0.9	75	4 days	82.5	84.7	79.6	80.5	33.6	+1.3	34.3	88	+3	83
Dinajpur ...	123	995.6	—1.5	992.4	999.7	996.5	89.9	+0.4	97	2, 3	77.2	—0.1	72	25	81.5	85.6	78.2	80.3	30.6	—0.8	33.1	86	0	79
EAST PAKISTAN (East)																								
Cox's Bazar ...	38	1000.7	—1.2	998.3	1002.1	999.6	87.3	+1.0	92	9	77.2	+0.8	73	10	83.0	82.6	78.7	78.9	31.3	—0.8	32.8	82	—3	85
Chittagong ...	87	998.4	—1.8	996.1	1001.4	999.1	86.9	0	91	4, 9, 10	77.2	+0.4	74	5 days	82.5	82.6	78.3	79.1	32.0	+0.5	32.8	82	—1	83
Comilla ...	29	999.5	—2.1	997.2	1000.5	998.2	86.7	—1.6	92	9	78.3	+1.5	74	18	82.6	82.9	79.3	80.0	32.8	+0.4	33.6	86	+4	88
Narayangan j ...	26	998.5	—2.6	995.9	999.4	996.7	89.3	+0.1	96	9	78.1	0	72	3	83.9	83.2	80.0	79.6	33.2	+0.1	32.8	82	—3	86
Brahmanbaria ...	32	999.7		996.9	1000.8	998.0	89.1	—1.1	95	6, 9	77.2	+2.6	71	24	83.8	83.8	79.4	79.8	32.4	+1.8	33.2	82	+3	84
Srimangal ...	69	998.9	—1.4	995.7	1001.3	998.1	88.8	—1.1	96	9	76.5	+1.0	71	2	81.4	82.9	78.4	79.7	31.4	+0.1	33.6	87	+1	87
Mymensingh ...	62	998.4	—1.9	995.6	1000.6	997.8	89.9	+2.1	96	4, 9	77.5	+0.6	74	14, 17, 19	82.1	85.6	79.2	80.3	32.5	+0.7	33.1	87	+1	79
EAST PAKISTAN (Deltaic)																								
Faridpur ...	46	998.0	—2.0	995.2	999.6	996.8	85.5	—3.7	92	4, 5	78.0	+0.6	73	14	83.6	83.1	80.1	79.3	34.0	+0.1	32.0	85	+1	85
Barisal ...	11	999.8	—1.5	996.8	1000.2	997.2	89.0	+0.2	95	6	79.2	+0.9	75	19	83.6	84.5	80.5	80.0	34.8	+1.1	33.5	80	—5	83
Khulna ...	16	999.4	—1.2	998.7	1000.0	999.3	90.0	—0.6	96	2, 6, 7	78.3	—0.6	73	3	85.1	83.9	80.7	79.7	33.5	0	33.2	82	+2	83
Jessore ...	26	998.4	—1.9	996.0	999.3	997.5	91.1	+0.4	99	2, 3	77.1	—0.8	71	1, 3	84.4	83.1	80.9	79.9	34.0	+0.2	33.6	85	+2	85
Satkhira ...	16	997.6	—2.7	995.2	998.1	995.7	91.3	—0.5	98	3, 4	78.5	—0.3	74	1.	85.0	83.9	81.8	81.2	36.0	—0.5	35.6	87	+5	87
KASHMIR																								
Srinagar † ...	5,205																							
Gulmarg † ...	8,709																							
Dras † ...	10,059																							
Leh † ...	11,529																							
Skardu † ...	7,505																							
Gilgit (R) ...	4,890																							
Misgar ...	10,190	697.2		694.4	700.4	698.0									57.7	67.5	43.6	47.7	5.4		5.1	33		23
NORTH PUNJAB																								
Lahore ...	702	972.8	—1.7	969.2	996.1	991.8	108.0	+2.1	115	11	82.9	+3.9	74	1, 3	91.2	106.5	77.5	80.8	30.3	—1.6	24.2	52	+5	31
Sialkot ...	830	968.6	—1.9	964.8	996.1	991.9	106.1	+1.1	113	11	83.6	+3.3	70	18	91.3	103.6	77.4	80.5	25.7	+4.1	24.9	53	+5	36
Jhelum ...	765	970.4		967.2	995.9	991.7	105.2		112	21	80.2		70	3	89.3	103.0	77.4	81.7	26.5		27.2	57		38
Rawalpindi ...	1,674	940.8	—2.4	937.7	995.6	991.2	105.3	+1.8	113	15	78.0	+2.1	69	2, 9	89.8	101.3	71.2	76.4	18.5	+0.3	20.8	39	+2	25
Khushab ...	616	974.8	—2.5	971.5	995.3	992.3	108.4	+1.8	116	11	82.0	—0.3	69	2	90.9	106.4	74.2	78.5	21.5	+0.7	20.6	44	+1	28
Lyallpur ...	605	975.1	—1.7	971.8	995.2	991.3	106.5	+0.5	114	10	83.6	+1.9	73	2	90.4	105.5	74.5	78.8	21.7	+0.3	21.5	43	—1	29

† Data not available. (R) Register not received.

0300 HRS. G.M.T. AND 1200 HRS. G. M. T.—JUNE 1950

Cloud Amount (Eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction—Number of Winds from :—																			STATION
											0300 hrs. G. M. T.									1200 hrs. G. M. T.										
Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date.	Days with 0.10" or more	Departure from normal	Mean.	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm.	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	
			"	"	"																									EAST PAKISTAN (North)
7.0		6.2							4.4		0	1	3	9	8	0	1	0	8	0	1	1	12	10	1	0	0	5	Sirajganj.
6.9	+1.0	6.5	16.55	+3.51	4.88	12	15	+0.5	3.4	+1.3	0	0	15	5	6	2	0	1	1	0	0	17	6	3	1	1	0	2	Bogra.
6.1	+0.1	4.8	15.30	+1.66	5.34	12	19	+4.9	3.7	+1.1	2	12	5	1	1	0	0	1	8	4	7	7	2	0	1	0	1	8	Dinajpur.
																														EAST PAKISTAN (East)
5.1	−1.0	5.7	31.24	+0.10	4.90	17	21	+1.9	3.3	−0.6	0	0	1	13	6	0	0	0	10	0	0	0	7	17	0	1	0	5	Cox's Bazar
6.6	+0.6	6.9	15.68	−5.31	2.42	21	19	+2.3	5.9	−1.1	0	1	3	20	6	0	0	0	0	0	0	0	8	17	4	1	0	0	Chittagong.
7.1	+1.7	6.6	22.78	+4.50	3.25	17	16	−1.1	7.8	+2.7	0	1	1	9	17	0	0	0	2	0	0	1	7	21	0	0	0	1	Comilla.
6.4	−0.1	6.5	15.42	+3.03	2.50	18	18	+3.5	5.0	+0.7	1	1	2	9	13	3	0	1	0	1	0	2	3	22	0	2	0	0	Narayanganj.
6.0	−0.5	4.5	15.27	+0.72	5.92	17	17	+1.0	4.4		0	0	3	11	16	0	0	0	0	1	0	3	7	10	6	1	1	1	Brahmanbaria.
6.4	+1.1	6.6	17.28	−1.58	2.50	18	21	+0.9	2.4	−0.8	1	2	9	2	10	0	0	0	6	3	0	2	2	13	0	2	0	8	Srimangal.
7.2	+0.5	6.9	12.70	−4.90	2.63	16	19	+1.2	3.6	+1.4	0	0	1	14	0	0	0	0	15	0	0	3	8	0	0	0	0	19	Mymensingh.
																														EAST PAKISTAN (Deltaic)
6.9	+1.2	6.9	27.82	+15.03	7.13	18	16	+0.8	7.2	+0.7	0	11	18	0	0	0	0	0	1	1	10	18	1	0	0	0	0	0	Faridpur.
7.0	+1.0	7.1	20.77	+4.72	2.32	11	20	+3.3	5.3	+2.3	1	0	2	11	11	1	0	0	4	0	0	1	9	15	0	1	0	4	Barisal.
5.4	−1.2	5.9	16.44	+3.98	3.11	11	17	+2.3	4.8	+0.9	0	0	4	10	15	1	0	0	0	0	0	3	15	9	0	0	0	3	Khulna.
6.4	+0.6	6.6	22.02	+9.80	3.89	11	19	+5.0	5.6	+2.6	0	0	6	4	17	1	1	0	0	0	0	3	7	17	0	2	0	1	Jessore.
6.5	+1.2	6.9	23.54	+11.34	3.10	12	22	+8.3	4.1	+1.2	1	4	7	8	3	4	0	1	2	0	4	3	17	4	0	0	1	1	Satkhira.
																														KASHMIR
																														Srinagar. †
																														Gulmarg. †
																														Dras. †
																														Leh. †
																														Skardu. †
																														Gilgit (R).
3.2		5.2	0.00		0.00		0		6.4		6	0	9	0	0	0	9	1	5	2	0	11	0	0	0	17	0	0	Misgar.
																														NORTH PUNJAB
1.0	−0.6	0.7	0.00	−1.64	0.00		0	−2.8	2.6	+0.4	2	5	1	10	1	3	4	0	4	4	4	0	1	2	3	11	4	1	Lahore.
1.9	+0.5	2.1	1.80	+0.41	1.15	18	3	−0.5	3.0	+0.9	0	1	11	6	0	0	0	4	8	2	2	0	1	0	4	2	14	5	Sialkot.
1.4		1.5	0.42		0.39	22	1		2.2		0	0	3	9	2	0	0	2	14	0	2	1	3	4	7	1	0	12	Jhelum.
1.8	−0.1	2.9	0.98	−1.33	0.80	22	1	−2.3	2.5	+0.4	0	3	3	2	0	0	0	0	22	0	4	0	0	0	2	1	1	22	Rawalpindi.
0.4	−0.9	1.6	0.33	−1.08	0.29	22	1	−1.3	4.5	−0.5	0	4	9	5	0	5	2	1	4	0	2	3	11	2	11	1	0	0	Khushab.
1.1	−0.7	0.7	0.00	−1.22	0.00		0	−2.1	1.1	−1.7	0	0	1	3	5	3	4	0	14	1	1	0	1	4	2	2	0	19	Lyallpur.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION	Height of bar. cistern above M.S.L. in feet	Pressure at station level in millibars			Pressure at M. S. L.		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure millibars			Relative humidity %		
		Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SOUTH PUNJAB																								
Montgomery ...	558	977.1	−1.7	973.9	995.7	991.9	107.2	−0.6	116	12	84.6	+1.3	74	2, 18	89.8	105.8	74.2	76.3	21.8	−5.0	17.7	48	−9	23
Multan ...	413	981.6	−1.6	978.3	995.1	991.2	108.4	+1.8	116	11, 12	84.3	−0.5	77	5	89.1	106.8	74.1	76.4	22.0	−4.9	17.2	47	−9	23
Fort Abbas ...	475	979.9		975.9	995.4	990.6	110.6		116	1, 24	85.5		77	25	90.3	106.9	74.6	75.9	26.2		16.4	46		21
Bahawalpur ...	384	982.7	−1.9	979.1	995.8	991.6	107.8	−0.6	114	11	83.9	+0.4	75	5	88.3	106.5	79.4	30.3	30.3	+2.3		66	+10	
Khanpur ...	297	985.4	−2.5	984.2	996.1	991.6	111.1	+1.3	116	12	83.1	+0.1	80	6	87.5	109.5	77.4	79.8	27.5	+1.1	21.2	62	+5	26
N.-W. F.P. (Upper)																								
Chakdara ...	2,225	924.3		922.3	997.4	992.8	101.3		108	14	70.8		62	2	81.2	98.0	70.8	73.0	21.0		16.4	61		29
Peshawar ...	1,175	957.2	−2.6	953.9	996.0	991.5	104.7	−0.3	112	20	78.2	+1.0	68	2	89.5	102.2	70.7	72.7	17.3	+0.4	14.1	37	+1	20
Landikotal ...	3,503	884.8		881.8	888.3	885.3	98.3		106	20	74.2		59	2	86.0	95.1	73.7	80.5	23.3		29.6	57		56
N.-W. F. P. (Lower)																								
Bannu ...	1,264	953.3		950.2	994.8	990.6	106.0	−0.1	113	29	81.1	+1.4	66	2	91.4	104.1	74.2	73.8	21.1	+2.0	14.7	44	+2	20
Miranshah ...	3,026																							
D. I. Khan ...	570	975.9	−2.2	972.7	994.6	991.4	107.8	0	115	14	81.1	−0.4	72	2	89.1	105.6	75.5	79.2	24.0	−1.5	26.5	51	−2	29
BALUCHISTAN (North)																								
Fort Sandeman ...	4,614	851.7	−0.6	849.8	889.7	886.4	100.7	+1.5	106	13, 15, 16	72.9	0	62	1	78.5	97.8	58.5	64.0	8.7	−4.1	6.8	27	−27	13
Hindubagh ...	5,950	814.1		811.8	791.7	789.3	94.7		101	12, 13	63.8		54	2	80.2	92.7	58.0	61.2	8.7		7.1	25		14
Loralai ...	4,699	848.7		845.9	889.1	885.0	97.2		103	12	64.2		58	3, 6	78.6	95.1	59.0	63.0	9.5		6.1	27		13
Sibi ...	441	981.2	−1.0	975.9	995.5	989.7	114.5	+1.8	121	21, 22	86.4	−1.1	72	1	92.6	114.0	77.7	82.4	25.9	+4.9	23.5	50	+10	24
Quetta ...	5,490	825.2	−2.6	823.0	791.1	789.8	92.3		96	30	55.5		49	4 days	74.6	91.1	68.6	83.0	22.0	+6.6	35.6	76	+22	71
Quetta (Samungli) ...	5,307	834.7		832.4	796.4	792.4	93.6		98	16, 30	52.1		44	25	75.1	91.5	59.6	71.3	11.8		18.8	49		37
Chaman ...	4,311	862.9	+1.3	860.9	891.3	888.7	98.8	0	104	21	71.5	−0.7	65	2, 3	84.6	97.3	68.9	74.3	17.8	+7.0	19.2	45	+17	26
Nushki ...	3,412	891.5		889.1	893.3	890.8	105.5		102	20, 29, 30	79.2		74	2, 5	89.1	103.6	66.4	73.4	13.1		15.1	29		27
Kalat ...	6,616	795.2	−0.6	793.6	792.9	791.1	88.1	−2.2	94	15, 30	55.6	−2.1	49	23	71.7	85.9	63.8	72.0	17.5	−6.8	21.7	62	+22	52
Dalbandin ...	2,785	907.4	−1.0	904.4	889.9	887.6	107.0	−0.3	111	19, 30	69.4	−3.6	57	27	84.3	105.3	63.1	75.4	10.8	−0.1	17.7	27	−1	24
Nokkundi ...	2,229	924.3		922.1	996.1	991.6	108.0	−1.3	115	19	81.8	0	70	10	90.1	106.6	65.8	71.0	11.5	−7.7	11.9	25	−15	14
BALUCHISTAN (South)																								
Las Bela ...	292														86.4	99.7	80.1	85.0	32.8	+2.1	35.4	79	+4	60
Ormara ...	15	998.0		995.2	998.7	995.7	92.3	−0.4	97	10, 11	81.5	−0.5	78	24	84.7	92.2	80.4	82.0	33.8	+0.7	32.4	79	−5	75
Pasni ...	10	998.7	−1.1	995.7	998.9	995.8	92.6	−1.2	103	8	79.6	+1.1	77	6	83.5	89.3	80.0	82.2	33.4	+0.4	35.4	83	0	73
Turbat ...	510	983.1		978.4	998.9	993.6	113.2		122	10	81.7		76	1	88.6	110.2	78.6	86.8	28.2		32.3	64		39
Panjgur ...	3,177	895.8	−0.8	893.6	890.5	888.8	103.0	−0.2	107	18, 20	72.8	−1.8	65	12	81.3	102.1	66.4	70.8	15.7	−3.1	26.7	44	−7	38
SIND (Upper)																								
Reti ...	280	987.7		983.5	996.9	992.6	112.2		117	12, 24	82.3		79	4 days	87.0	111.0	79.3	83.0	30.8		25.7	70		29
Jacobabad ...	183	989.6	−1.4	985.0	996.1	994.3	112.7	−1.2	119	22	84.1	−0.8	81	24, 25	88.7	111.6	77.5	80.0	27.7	−3.6	21.2	59	−4	29
Sukkur ...	221	987.9	−2.2	984.2	995.4	991.4			119		82.2	−1.2	80	6	84.9	108.8	77.7	81.4	29.6	+1.1	25.0	71	+4	27
Pad Idan ...	153	990.4		987.0	995.5	992.0	112.9		124	24	81.3		75	8	87.3	111.6	80.3	84.9	31.8		29.6	74		31

0300 HRS. G. M. T. AND 1200 HRS. G. M. T.—MAY 1950.

Cloud Amount (Eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction—Number of Winds from :-																			STATION
											0300 hrs. G.M.T.									1200 hrs. G.M.T.										
Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
			"	"	"																								
																													SOUTH PUNJAB.
0.7	−0.3	0.8	0.00	−0.98	0.00		0	−1.6	1.0	−3.8	0	1	0	2	1	21	1	0	4	0	1	0	2	0	15	2	3	7	Montgomery.
0.6	−0.2	0.3	0.00	−0.55	0.00		0	−1.0	7.0	+4.7	2	0	2	1	17	7	0	0	1	1	1	1	1	7	13	3	0	3	Multan.
0.4		1.1	0.08		0.08	9	0		9.0		1	0	1	1	6	21	0	0	0	4	0	1	0	4	10	7	3	1	Fort Abbas.
0.2	−0.8	0.5	0.00	−0.28	0.00		0	−0.6	5.6	+1.1	1	0	0	0	7	14	1	0	7	0	0	1	0	4	12	3	0	10	Bahawalpur.
0.4	−0.6	1.2	0.13	−0.13	0.09	5	0	−0.6	6.7	−0.4	1	1	1	1	7	16	1	1	1	0	1	0	0	4	17	5	2	1	Khanpur.
																													N. W. F. P. (Upper)
0.9		1.7	0.00		0.00		0		4.6		2	2	4	8	1	2	0	2	9	0	2	1	7	3	9	0	3	5	Chakdara.
1.3	−0.4	2.7	0.57	+0.26	0.47	22	2	+1.1	3.1	+0.9	3	1	0	0	1	0	0	1	24	2	13	6	1	0	1	1	0	6	Peshawar.
1.0		1.8	0.41		0.41	22	1		4.2		2	1	0	2	0	2	0	20	3	0	4	0	11	2	6	4	3	0	Landikotal.
																													N. W. F. P. (Lower)
0.8	−0.6	2.9	0.06	−0.85	0.06	18	0	−1.5	2.7		0	1	1	2	0	1	2	4	19	1	0	8	12	2	0	2	1	4	Bannu.
			0.00	−0.91	0.00		0	−1.6	5.6	+0.4	0	0	1	0	0	0	2	1	26	0	2	12	11	0	1	3	1	0	Miranshah.
0.4	−0.7	0.9	0.00	−0.61	0.00		0	−1.3	2.4	+0.6	4	11	1	2	2	0	0	1	9	1	8	5	6	1	2	1	1	5	D. I. Khan.
																													BALUCHISTAN (North)
0.3	−0.4	2.1	0.00	−0.64	0.00		0	−1.3			0	0	0	0	0	0	0	0	30	0	2	0	1	0	2	0	4	21	Fort Sandeman.
0.0		0.3	0.00		0.00		0				0	0	0	0	1	13	7	3	6	0	0	0	0	0	10	16	2	2	Hindubagh.
0.1		1.3	0.00	−0.35	0.00		0	−0.1	5.1		0	1	0	0	1	1	15	4	8	0	0	0	1	10	4	11	1	3	Loralai.
0.0	−0.5	0.4	0.00	−0.30	0.00		0	−0.5	4.1	−0.8	0	0	1	2	16	1	3	1	6	0	0	1	9	12	5	3	0	0	Sibi.
0.0	−0.5	0.2	0.00		0.00		0		3.7	+1.5	7	3	0	1	7	5	2	2	3	12	2	0	0	0	1	3	12	0	Quetta.
0.0		0.4	0.00		0.00		0		5.1		1	0	5	7	0	1	1	1	14	1	0	0	0	0	0	13	14	2	Quetta (Samungli)
0.0	−0.4	0.2	0.00	−0.02	0.00		0	0	3.3	−1.8	0	0	0	0	6	11	3	1	9	0	0	1	0	1	3	18	7	0	Chaman.
0.1		0.1	0.00		0.00		0		6.8		0	4	8	8	0	1	1	3	5	0	0	0	0	0	1	9	19	1	Nushki.
0.1	−0.4	0.4	0.00	−0.19	0.00		0	−0.4	5.2	+0.8	0	1	0	25	2	0	0	1	1	0	2	0	1	1	1	0	25	0	Kalat.
0.2	−0.4	0.5	0.00	−0.01	0.00		0	0	4.4	−0.4	0	1	0	0	0	0	1	2	26	1	0	3	1	1	2	9	6	7	Dalbandin.
0.2	−0.4	0.2	0.00	0.00	0.00		0	0	8.8	−2.0	1	0	0	2	1	0	0	18	8	1	0	0	0	0	0	0	23	6	Nokkundi.
																													BALUCHISTAN (South)
0.8	−2.3	2.0	0.00	−0.42	0.00		0	−1.2	3.0	−0.3	0	0	0	0	1	0	0	0	29	0	1	1	21	0	4	0	0	3	Las Bela.
3.9	+0.2	1.9	0.00	−0.03	0.00		0	−0.2	11.0	+2.2	0	1	2	1	0	12	12	1	1	0	0	0	1	2	14	13	0	0	Ormara.
3.5	+0.6	0.7	0.00	−0.26	0.00		0	−0.2	8.5	+1.9	0	2	2	6	1	8	3	6	2	0	0	1	3	3	17	1	5	0	Pasni.
1.0		0.0	0.00		0.00		0		7.3		1	3	0	1	2	8	4	3	8	0	1	0	0	6	13	6	3	1	Turbat.
0.9	+0.3	1.4	0.00	−0.12	0.00		0	−0.4	4.0	−0.8	2	9	3	0	1	3	2	4	6	1	0	1	0	0	2	3	23	0	Panjgur.
																													SIND (Upper)
0.8		0.2	0.00		0.00		0		11.1		1	0	1	0	13	13	0	2	0	0	0	0	2	6	12	7	1	2	Reti.
(b) 0.3	−0.3	0.0	0.00	−0.26	0.00		0	−0.3	8.3	+2.1	0	0	11	16	1	0	0	0	2	1	1	2	8	13	1	0	3	1	Jacobabad.
0.7	+0.2	0.1	0.00	−0.14	0.00		0	−0.5	3.9	−0.3	0	1	0	4	13	11	0	1	0	0	1	0	1	9	12	5	0	2	Sukkur.
1.8		0.4	0.00		0.00		0		9.7		0	0	0	15	14	0	1	0	0	0	2	1	10	11	3	1	1	1	Pad Idan.

(b) Mean of 29 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION	Height of bar. cistern above M. S. L. in feet	Pressure at station level in millibars: Mean 0300 hrs. G.M.T.	Pressure at station level in millibars: Departure from normal	Pressure at station level in millibars: Mean 1200 hrs. G.M.T.	Pressure at M. S. L.: Mean 0300 hrs. G.M.T.	Pressure at M. S. L.: Mean 1200 hrs. G.M.T.	Maximum temperature °F: Mean	Maximum temperature °F: Departure from normal	Maximum temperature °F: Highest	Maximum temperature °F: Date	Minimum temperature °F: Mean	Minimum temperature °F: Departure from normal	Minimum temperature °F: Lowest	Minimum temperature °F: Date	Dry bulb temperature °F: Mean 0300 hrs. G.M.T.	Dry bulb temperature °F: Mean 1200 hrs. G.M.T.	Wet bulb temperature °F: Mean 0300 hrs. G.M.T.	Wet bulb temperature °F: Mean 1200 hrs. G.M.T.	Vapour pressure millibars: Mean 0300 hrs. G.M.T.	Vapour pressure millibars: Departure from normal	Vapour pressure millibars: Mean 1200 hrs. G.M.T.	Relative humidity %: Mean 0300 hrs. G.M.T.	Relative humidity %: Departure from normal	Relative humidity %: Mean 1200 hrs. G.M.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SIND (Lower)																								
Umarkot ...	55	995.9		992.3	997.9	994.1	103.1		110	1	80.6		79	6, 26, 27	87.8	102.4	80.1	82.0	32.0		27.5	70		40
Hyderabad ...	96	994.3	—1.2	992.0	997.7	995.2	104.4	—0.1	117	23	81.7	—0.3	80	5 days	86.2	99.5	78.2	80.2	29.3	+1.2	25.8	69	+4	42
Karachi (Drigh Road)	73	996.5		994.1	998.9	996.5	93.2		99	9, 23	82.5		81	4, 24, 28	85.1	88.8	79.8	81.4	32.2		33.7	78		72
Karachi (Manora) ...	13	998.6	—1.1	996.1	999.0	996.5	89.9	—0.5	92	10, 11, 12	83.0	+0.7	81	4 days	84.5	87.7	80.1	81.5	33.7	+0.2	34.6	81	—2	76
Badin ...	31						100.2	—0.8	105	23					85.4	99.5	78.1	79.5	28.8	—2.2	24.7	71	—2	46
HILL STATIONS (excluding Kashmir and Baluchistan)																								
Murree ...	7,113	779.9	—1.6	779.0	790.3	791.2	78.7	—2.0	87	15	61.8	+1.3	49	1	71.0	74.7	58.9	60.1	12.6	+0.4	12.5	49	—3	45
Cherat ...	4,272	861.4	—1.3	859.8	889.2	886.9	94.4	+1.2	102	13, 14	73.8	+0.6	56	2	80.2	91.3	62.6	66.1	12.4	—1.5	11.7	36	—9	26
Drosh ...	4,806	847.2		842.5	890.9	884.8	94.2	+2.3	101	20, 29	70.0	+1.5	56	2	77.0	91.5	59.4	62.8	10.2	—3.2	7.8	34	—16	16
Parachinar ...	5,673	819.6	—1.9	818.3	790.6	789.9	88.8	+1.1	97	20	65.2	+1.5	57	2	75.0	84.2	59.8	63.3	12.1	+0.1	12.3	42	—1	33
Wana ...	4,456	857.9		855.8	891.4	887.8	97.5	+2.9	104	4 days	68.1	—0.2	57	2	79.4	93.0	63.7	66.6	13.8	+0.6	11.6	40	—3	23
AFGHANISTAN																								
Jalalabad (R) ...	1,950																							
Kabul ...	5,955	816.3		813.9	796.2	794.7	88.3	+1.4	94	21	56.0	0.0	50	1	67.1	86.3	53.7	61.5	9.0	—0.3	9.7	42	+4	23
Kandahar ...	3,462	889.8		887.1	893.1	890.3	98.1		102	16, 28, 30	59.7		56	4 day	72.4	96.4	64.4	68.2	17.1		31.6	66		55
IRAN																								
Jask (R) ...	13																							
ARABIA																								
Muscat ...	15	997.5		996.1	998.0	996.6	98.2	+0.1	110	5	88.0	—0.1	84	16	91.2	92.9	79.0	82.0	32.3		28.1	59		62
Kuwait ...	16	1001.2		999.5	1001.2	1000.0	99.5		111	21	82.3		78	2	85.3	96.3	70.5	76.4	18.3		21.6	43		38

(R) Register not received

ADDENDA TO TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

JANUARY																								
EAST PAKISTAN (East)																								
Narayanganj ...	26	1014.4	—2.1	1011.0	1015.3	1011.9	81.2	+3.3	84	4 days	56.3	+0.8	51	11	68.0	75.0	61.8	63.8	16.3	+0.9	15.4	70	—6	52
EAST PAKISTAN (Deltaic)																								
Satkhira ...	16	1015.0	—2.0	1011.9	1015.6	1012.5	81.3	+1.1	85	5 days	53.7	+0.9	45	11	63.8	75.6	59.9	66.0	15.9	+1.3	17.9	79	+5	61
FEBRUARY																								
EAST PAKISTAN (East)																								
Narayanganj ...	26	1012.4	—2.0	1009.2	1013.3	1010.1	81.8	+0.1	90	20	60.5	+1.5	44	12	69.4	76.0	63.5	65.5	17.0	+0.3	16.7	71	0	54
EAST PAKISTAN (Deltaic)																								
Satkhira ...	16	1013.1	—1.5	1008.7	1013.7	1009.3	84.2	—0.3	92	20, 21	58.4	+0.1	41	12	67.8	77.9	63.8	67.8	18.6	+1.5	18.9	79	+5	61
ARABIA																								
Kuwait ...	16	1020.2		1017.6	1020.7	1018.1	60.4		71	25, 26	44.9		36	1, 2	49.7	58.6	45.0	51.1	8.4		9.7	66		86

Cloud Amount (Eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction—Number of Winds from :—																			STATION
											0300 hrs. G. M. T.									1200 hrs. G. M. T.										
Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																													SIND (Lower)
0.9		0.0	0.00		0.00		0		12.1		0	0	0	0	1	28	1	0	0	0	0	0	0	1	29	0	0	0	Umarkot.
3.0	+1.0	0.4	0.53	+0.14	0.53	3	1	+0.4	10.4	+0.6	0	0	0	0	0	29	1	0	0	0	0	0	1	0	29	0	0	0	Hyderabad.
6.3		3.6	0.00		0.00		0		12.6		0	0	0	0	1	18	11	0	0	0	0	0	0	2	21	7	0	0	Karachi (Drigh Road).
5.9	+1.4	3.7	0.00	—0.72	0.00		0	—0.6	12.6	+1.5	0	0	0	0	0	14	16	0	0	0	0	0	0	0	15	15	0	0	Karachi (Manora).
1.6	—1.5	0.6	0.00	—0.65	0.00		0	—0.8	8.8	—2.3	0	0	0	0	1	27	1	0	1	0	0	0	0	2	28	0	0	0	Badin.
																													HILL STATIONS (excluding Kashmir and Baluchistan)
2.2	0.0	4.0	4.15	+0.17	1.28	22	8	+2.2	4.5	+0.5	0	1	6	3	1	0	4	1	14	0	3	3	2	0	0	14	6	2	Murree.
1.2	—0.2	2.2	0.99	—0.15	0.52	22	2	0	6.6	+0.8	9	1	0	4	8	0	1	5	2	4	4	0	9	7	1	0	4	1	Cherat.
1.0	0.0	2.3	0.51	—0.14	0.47	21	1	—1.0	4.3	+0.6	0	3	2	0	0	0	0	0	25	2	2	0	0	0	13	11	0	2	Drosh.
0.8	—0.6	3.7	1.15	—0.85	0.65	30	3	+1.0	3.8	+1.4	0	3	4	2	2	2	4	3	10	0	3	7	7	6	4	0	2	1	Parachinar.
0.0	—1.0	0.9	1.08	+0.65	1.06	5	1	—0.5	2.9		0	0	0	1	1	1	0	0	27	0	1	6	18	1	3	1	0	0	Wana.
																													AFGHANISTAN
																													Jalalabad (R)
0.4	—0.2	1.9	0.00	—0.47	0.00		0	—0.5	3.8	+1.6	1	0	1	0	5	10	7	4	2	13	14	0	0	1	1	0	0	1	Kabul.
0.0		0.0	0.00		0.00		0		1.2		0	0	0	0	0	0	0	0	30	0	0	0	0	0	11	0	2	17	Kandahar.
																													IRAN
																													Jask (R)
																													ARABIA.
0.0	—1.4	0.0	0.00	—0.08	0.00		0	—0.1	3.3	—0.1	2	1	4	0	1	1	4	8	9	0	1	1	1	0	0	1	13	13	Muscat.
0.0		0.0	0.00		0.00		0		6.0		1	0	0	0	1	2	9	17	0	7	3	0	1	0	2	0	13	4	Kuwait.

January to May 1950

0300 HRS. G. M. T. AND 1200 HRS. G. M. T. —~~JUNE 1950.~~

																													EAST PAKISTAN (East)	JANUARY.
0.7	—1.1	0.7	0.20	—0.12	0.20	17	1	+0.2	1.4	+0.3	7	0	5	1	3	1	4	2	8	0	0	1	0	2	0	7	2	19	Narayanganj.	
																													EAST PAKISTAN (Deltaic)	
1.0	—0.4	1.2	0.00	—0.38	0.00		0	—0.9	1.5	+0.5	15	3	2	3	1	0	2	3	2	1	0	0	1	1	1	3	1	23	Satkhira.	
																													EAST PAKISTAN (East)	FEBRUARY.
2.3	—0.2	1.1	1.58	+0.34	0.70	23	3	+1.1	2.2	+0.6	3	0	1	2	10	2	5	2	3	1	1	1	0	8	1	4	2	10	Narayanganj.	
																													EAST PAKISTAN (Deltaic)	
2.1	—0.3	2.0	0.00	—0.03	0.00		0	—1.8	2.3	+1.0	4	0	0	1	0	6	6	4	7	0	0	0	3	1	6	2	3	13	Satkhira.	
																													ARABIA	
1.7		(d) 1.9	0.18		0.07	11	0		5.9		1	0	2	4	0	1	5	10	5	0	0	7	4	1	0	2	10	4	Kuwait.	

(d) Mean of 27 days.

	STATION	Height of bar. above M. S. L. in feet	Pressure at station level in millibars			Pressure at M. S. L.		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure millibars			Relative humidity %		
			Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Mean 0300 hrs G.M.T.	Mean 1200 hrs. G.M.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0300 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0300 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
MARCH	EAST PAKISTAN (East)																								
	Narayanganj ...	26	1011.4	—0.1	1007.2	1012.3	1008.1	91.3	+1.5	96	7, 8	68.0	—0.1	60	30	78.9	85.8	69.5	70.0	20.3	—2.1	17.8	61	—10	43
	EAST PAKISTAN (Deltaic)																								
	Barisal ...	11	1012.4	+0.5	1008.4	1012.8	1008.8	89.6	0	94	7, 8	69.0	+0.2	58	26	78.8	83.8	71.0	72.4	22.3	—2.8	22.1	67	—9	54
	SOUTH PUNJAB																								
	Multan (P. B. O.)	405	998.4		996.1	1013.3	1010.4	80.3		89	10	55.0		49	1, 2	58.8	78.8	54.7	63.2	12.8		12.8	75		39
	Khanpur ...	297	1003.0	+0.9	999.5	1013.7	1009.7	85.1	—1.8	93	10, 11	55.5	+1.3	43	2	61.6	82.3	55.3	63.9	12.1	+1.4	12.0	65	+10	32
	Hill Stations Excluding Kashmir and Baluchistan.																								
	Wana ...	4456	864.7		862.8	900.5	897.6	62.3	—3.4	71	11	38.6	—1.4	31	4	45.1	58.0	41.2	46.8	6.8	+0.1	6.4	66	—1	41
APRIL	EAST PASIKTAN (Deltaic)																								
	Satkhira ...	16	1006.5	—1.8	1002.5	1007.0	1003.0	98.7	+1.7	105	23	75.1	—0.5	64	1, 2	83.3	91.7	77.4	79.1	29.0	—0.2	28.7	76	+6	56
	NORTH PUNJAB																								
	Khushab ...	616	986.6	—0.5	984.2	1008.7	1004.2	90.0	—2.9	103	28	58.5	—8.2	51	3	70.8	88.2	59.6	66.0	13.0	0.0	12.0	51	+8	29
	SOUTH PUNJAB																								
	Khanpur ...	297	997.5	—0.6	994.5	1007.9	1004.7	96.5	—2.2	107	28	62.5	—2.2	53	3, 24	73.2	94.8	61.9	68.3	13.8	+0.6	11.6	51	+9	22
	Hill Stations Excluding Kashmir and Baluchistan.																								
	Wana ...	4456	863.4		861.4	898.7	895.4	72.8	—3.9	84	28	46.4	—3.2	38	3	54.8	69.8	(b) 48.3	57.2	8.9	+0.3	10.9	59	0	44
MAY	EAST PAKISTAN)Deltaic)																								
	Satkhira ...	16	1003.9	—0.9	999.3	1004.4	999.9	96.1	+0.7	101	15	78.3	+0.9	72	21, 22	86.3	90.3	80.4	81.4	32.3	+0.1	32.0	76	+2	68

(b) Mean of 29 days.

January to May 1950

Cloud Amount (Eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction—Number of Winds from :—																		STATION	
											0300 hrs G. M. T.									1200 hrs. G. M. T.										
Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	
																													EAST PAKISTAN (East)	MARCH
2.7	—0.6	2.1	0.02	—2.37	0.01	22, 25	0	—3.2	2.6	—0.2	2	0	0	3	11	2	5	3	5	0	0	3	0	14	1	3	1	9	Narayanganj.	
																													EAST PAKISTAN (Deltaic)	
2.9	+0.1	2.7	0.54	—1.51	0.25	26	2	—1.1	2.8	+0.6	2	4	0	1	2	5	3	5	9	1	1	0	2	3	1	2	0	21	Barisal.	
																													SOUTH PUNJAB	
0.5		0.3	0.60		0.00		0		2.5		0	1	0	0	0	0	0	0	22	0	1	0	0	0	2	0	2	21	Multan (P.B.O.).	
2.8	+0.7	2.2	0.39	+0.01	0.31	21	1	+0.1	4.1	+0.1	10	9	1	0	4	2	0	2	3	10	4	1	0	3	1	7	4	1	Khanpur.	
																													Hill Stations Excluding Kashmir and Baluchistan.	
1.9	—0.7	3.3	2.10	+0.17	0.61	21	4	+0.1	3.2		0	0	0	0	4	12	2	0	13	0	5	4	9	3	6	0	3	1	Wana.	
																													EAST PAKISTAN (Deltaic)	APRIL
4.1	+1.1	3.2	0.84	—2.09	0.53	16	3	—1.0	4.3	+1.2	2	0	1	10	0	16	0	1	0	0	0	1	9	4	9	0	1	6	Satkhira.	
																													NORTH PUNJAB	
1.2	—1.0	2.0	1.28	+0.37	0.48	15	4	+1.9	4.3	—0.3	0	12	2	1	0	4	2	3	6	3	5	1	6	2	6	4	3	0	Khushab.	
																													SOUTH PUNJAB	
1.3	—0.1	1.1	0.20	—0.25	0.00		0	—0.5	3.9	—0.2	9	6	3	1	2	0	2	3	4	5	2	1	1	1	5	10	4	1	Khanpur.	
																													Hill Stations Excluding Kashmir and Baluchistan.	
1.5	—0.7	2.2	3.37	+2.00	1.61	2	4	+0.2	3.8		0	1	1	2	4	11	0	2	9	0	3	2	9	3	10	0	3	0	Wana.	
																													EAST PAKISTAN (Deltaic)	MAY
5.8	+1.8	5.9	3.43	—3.44	1.20	19	8	—0.2	4.1	+0.7	1	2	2	17	3	5	1	0	0	0	0	3	20	6	2	0	0	0	Satkhira.	

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS.
June, 1950

STATION	Maximum temperature °F				Minimum temperature °F				Mean dry bulb temperature 0300 hrs. G.M.T. °F	Mean wet bulb temperature 0300 hrs. G.M.T. °F	Vapour Pressure, millibars		Relative humidity %		Mean cloud amount 0300 hrs. G.M.T.	Precipitation						Wind	
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date			Mean 0300 hrs. G.M.T	Departure from normal	Mean 0300 hrs. G.M.T.	Departure from normal		Total of the Month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more.	Departure from normal	Resultant direction 0300 hrs. G.M.T.	Velocity knots
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
																"	"	"					
EAST PAKISTAN (*North*)																							
Pabna	89.6	−2.0	98	3					83.6	80.5	34.8	+1.5	87	+3		14.70	+3.43	2.67	14	18	+3.5		
KASHMIR—																							
Jammu *																							
Kargil *																							

* Data not available.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 5TH CLASS STATIONS
June, 1950

DIVISION	STATION	PRECIPITATION					
		Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal
1	2	3	4	5	6	7	8
		"	"	"			
EAST PAKISTAN (*North*)	**Rajshahi** (R) ...						
	Rangpur ...	20.20	+2.42	7.15	12	20	+4.3
KASHMIR	**Sonamarg** * ...						
	Gurez * ...						
BALUCHISTAN (*North*)	**Harnai** ...	0.00	−0.75	0.00		0	−1.5

(R) Register not received. * Data not available.

Pakistan. Meteorological Service

Registered No.

PAKISTAN WEATHER REVIEW, 1950

Monthly Weather Report

JULY

Published by the authority of the Government of Pakistan

Chief features :— (1) Intensification of the seasonal low over West Pakistan throughout the month and well marked monsoon activity during the last three weeks.

(2) Continued monsoon activity in East Pakistan and its subsequent strengthening on the 27th and the 28th due to the west north westerly movement of a depression in the head Bay.

West Pakistan.—Cold fronts associated with low pressure waves moving across Russian Turkistan caused scattered thunderstorms/showers in the extreme north of West Pakistan during the first five days, while the simultaneous accentuation of the seasonal low was responsible for scattered dust/thunderstorms in north Baluchistan and for the advance of the monsoon into the North Punjab on the 5th. Thereafter, five shallow depressions, originating in the head Bay of Bengal and moving westwards through the Indian region merged into the seasonal low which remained accentuated practically throughout the rest of the month when monsoon activity was well marked over the Punjab and spells of wet weather were experienced over the entire West Pakistan.

According to press reports, five children and one fisherman were killed in Karachi due to the rains pouring down intermittently on the 26th and 27th and some house collapses were also reported. The Lyari river was also in spate.

Some of the noteworthy amounts of rainfall recorded during the month were :—Murree 1" on the 1st; Sialkot 1-1/2" on the 4th; Jhelum 1" on the 7th and Fort Abbas 1" on the 8th; Murree 1-1/2" on the 10th ; Khushab and Cherat 2" each, Loralai 1" on the 11th ; Pad Idan 2" and Murree 1" on the 12th ; Lyallpur 2" on the 13th and Bahawalpur 2" on the 14th; Rawalpindi and Parachinar 1" each on the 15th; Cherat 2" and Sibi 1-1/2" on the 16th; Chakdara 2" on the 17th; Lyallpur, Lahore and Sialkot 1" each on the 18th; Montgomery 1" on the 20th; Rawalpindi 2" on the 21st and 3" on the 22nd; Cherat 1-1/2"; Rawalpindi and Peshawar 1" each on the 23rd ; Montgomery 1" on the 25th ; Sialkot 1-1/2" on the 26th; Harnai and Karachi 1-1/2" each on the 28th ; Lyallpur, Karachi and Badin 2" each, Sialkot 1-1/2" on the 30th.

The mean actual rainfall during the month was in large excess in the upper North-West Frontier Province and north Baluchistan, in moderate excess in south Baluchistan, in slight excess in the south Punjab and normal in the north Punjab and lower Sind. It was in slight defect in upper Sind and large defect in the lower North-West Frontier Province. Averaged over the plains of West Pakistan it was normal.

The mean maximum and minimum temperatures were normal over the region except the Punjab and the upper North West Frontier Province where mean maximum temperatures were below normal. Mean relative humidity was in excess in the north Punjab and the upper North-West Frontier Province and normal elsewhere. Skies were more clouded than usual in the Punjab, the North-West Frontier Province, North Baluchistan and upper Sind, normally clouded in lower Sind, and less clouded than usual in South Baluchistan.

East Pakistan.—Monsoon activity remained marked over East Pakistan practically throughout the month. A shallow depression which formed at the north-west angle of the Bay of Bengal on the 2nd, intensified there and moved inland in north-westerly direction into the Indian region on the 5th. Monsoon activity was however less marked on the 11th, due to a second depression which formed off Orissa coast on the 10th and moved inland into Orissa on the night of the 11th. It was again weak on the 19th due to unsettled conditions at the head Bay, but became active on the next day, in association with a third depression which, forming at the north-west angle of the head Bay on the 20th and remaining practically stationary, deepened off Sunderbounds coast on the 26th, crossed it and moved away west-north-west wards into the Indian region. Associated with its movement fresh incursion of maritime air took place and locally heavy downpours were recorded in the Eastern and Deltaic sub-divisions on the 27th and 28th.

Some of the noteworthy amounts of rainfall recorded during the month were :— Comilla 5" and Faridpur 2" on the 1st ; Rangpur and Cox's Bazar 2" each on the 7th; Cox's Bazar 4" and Chittagong 2" on the 8th; Khulna 2" on the 10th; Cox's Bazar and Narayanganj 3" each and Chittagong 2" on the 13th; Cox's Bazar 2" on the 14th; Cox's Bazar 3" and Faridpur 2" on the 17th; Cox's Bazar 8", Chittagong and Barisal 4" each on the 27th; Cox's Bazar 9", Chittagong 4" and Comilla 3" on the 28th; Cox's Bazar 5" and Khulna 3" on the 29th.

The mean actual rainfall during the month was normal in the Eastern sub-division, in slight defect in the Deltaic sub-division and in large defect in the Northern sub-Division of East Pakistan. Averaged over the region as a whole it was in slight defect.

The mean maximum and minimum temperatures, relative humidity and cloudiness were normal over all the sub-divisions.

Table I contains the Divisional and Sub-divisional means of rainfall, temperature, humidity and cloud for the 5 Chief divisions and 12 sub-divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

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WEATHER BUREAU

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—JULY—1950

Division	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour Pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb	%	
1. East Pakisan	12·79	16·03	—3.24	—20	—0·3	+0·5	—0·1	—1	+0·1
Mean of East Pakistan	12·79	16·03	—3.24	—20	—0·3	+0·5	—0·1	—1	+0·1
2. Punjab	5·07	4·59	+0·48	+10	—3·0	—0·1	—2·2	+8	+1·5
3. N.-W. F. P.	0·94	1·89	—0·95	—50	—2·8	+0·4	+2·9	+8	+1·6
4. Baluchistan	1·83	1·21	+0·62	+51	—0·3	+1.0	+1·5	+1	+0·1
5. Sind	2·25	2.51	—0·26	—10	—0·7	—0·8	0·4	0	+1·6
Mean of West Pakistan excluding Baluchistan ...	3·41	3·42	—0·01	0	—2·2	—0·3	+1·4	+5	+1·6
SUB-DIVISION									
1. East Pakistan (North)	6·07	13·85	—7·78	—56	—0·1	+0·6	0·0	—1	—0·1
2. East Pakistan (East)	17·26	18·53	—1·27	—7	—0·7	+0·6	—0·1	—1	+0·1
3. East Pakistan (Deltaic)	11·31	13·13	—1·82	—14	+0·3	+0·1	—0·2	+1	+0·2
4. Kashmir*									
5. North Punjab	6·62	6·18	+0·44	+7	—3·5	—0·1	+2·6	+10	+1·9
6. South Punjab	3·00	2·46	+0·54	+22	—2·4	—0·5	+1·6	+5	+1·0
7. N.-W. F. P. (Upper)	1·76	1·16	+0·60	+52	—4·6	+0·2	+4·0	+15	+1·8
8. N.-W. F. P. (Lower)	0·53	2·25	—1·72	—76	—1·9	+0·5	+2·4	+5	+1·5
9. Baluchistan (North)	1·90	1·20	+0·70	+58	+0·2	+1·5	+1·9	+1	+0·6
10. Baluchistan (South)	1·66	1·25	+0·41	+33	—1·3	—0·3	+1·0	0	—0·9
11. Sind (Upper)	0·83	1.19	—0·36	—30	—1·6	—1·1	—1·1	—1	+2·7
12. Sind (Lower)	3·20	3·38	—0·18	—5	—0·4	—0·6	+0·1	+1	+0·9

*Data incomplete.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATIONS	Height of bar. cistern above M.S.L. in feet	Pressure at station level in millibars			Pressure at M. S. L.		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure millibars			Relative humidity %		
		Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
EAST PAKISTAN (North)																								
Sirajganj ...	48	997·6	...	995·0	999·3	996·7	87·5	...	91	26	79·5	...	78	5 days	82·7	84·9	79·9	80·9	33·6	...	34·3	87	...	83
Bogra ...	63	998·2	—0·5	994·9	1000·3	997·0	89·0	—0·2	92	27	79·1	+0·6	78	4 days	83·7	85·4	79·9	80·9	33·2	0·0	33·5	84	—1	81
Dinajpur ...	123	996·4	—0·1	993·2	1000·6	997·4	90·0	+0·8	95	27	79·5	+0·6	78	6 days	83·8	86·2	80·0	80·9	33·2	+0·4	33·1	84	—2	79
EAST PAKISTAN (East)																								
Cox's Bazar ...	38	1001·3	0·0	998·9	1002·6	1000·3	85·5	+0·2	90	26	76·2	—0·2	75	12 days	80·9	81·5	77·8	78·1	31·4	—0·5	30·6	87	—1	85
Chittagong ...	87	999·0	—0·5	996·5	1002·0	999·5	85·1	—0·9	89	4, 5	77·0	+0·3	75	6 days	81·1	81·5	77·2	78·1	29·9	—1·3	30·6	84	—2	85
Comilla ...	29	1000·5	—0·5	997.4	1001·5	998·4	86·1	—1·6	93	26	77·5	+0·4	76	4 days	82·4	84·3	78·8	80·2	31·7	—0·5	33·2	83	—2	82
Narayanganj ...	26	999·1	—1·4	996·4	1000·0	997·2	87·9	—0·3	92	26	79·0	+0·1	76	26	83·1	84·2	79·4	79·7	32·8	—0·1	32·4	83	—2	81
Brahmanbaria ...	32	1000·4	...	997·5	1001·5	998·6	89·0	—0·5	95	26	78·0	+2·2	76	29,30	83·8	85·1	79·0	80·4	31·6	+0·8	33·5	80	—1	80
Srimangal ...	69	999·7	—0·4	996·4	1002·1	998·8	89·4	—0·9	94	11,27	76·8	+0·4	74	2	81·4	83·4	78·2	79·6	31·4	—0·4	32·0	86	0	85
Mymensingh ...	62	999·1	—0·6	996·1	1001·3	998·3	92·1	+4·2	96	5	79·0	+0·7	77	25,28	83·0	86·1	79·8	81·0	33·6	+1·1	33·9	86	—1	78
EAST PAKISTAN (Deltaic)																								
Faridpur ...	46	998·8	—0·5	995·9	1000·4	997·5	84·4	—3·4	88	11	78·6	+0·1	76	1	82·6	83·3	79·7	79·9	33·6	—0·1	32·8	87	+2	85
Barisal ...	11	1000·2	—0·5	997·5	1000·6	997·7	86·5	—0·8	90	24	78·7	+0·3	76	29	82·0	83·0	79·3	79·3	33·3	+0·2	32·8	89	+2	84
Khulna ...	16	999·9	+0·1	998·5	1000·5	999·1	87·1	—0·8	90	11	78·6	0·0	76	18	83·4	83·6	79·4	79·3	32·0	—0·8	32·4	83	0	81
Jessore ...	26	999·8	0·0	996·1	1000·7	997·0	89·5	+1·4	94	10	78·2	+0·2	75	29	84·4	84·7	81·0	81·1	34·0	+0·4	35·1	85	0	85
Satkhira ...	16	998·4	—1·1	995·5	998·9	996·1	88·4	—0·1	95	23	78·6	+0·2	76	7	83·7	84·3	80·8	80·6	34·8	+1·1	34·0	87	+2	84
KASHMIR																								
Srinagar ×	5,205																							
Gulmarg ×	8,709																							
Dras ×	10,059																							
Leh ×	11,529																							
Skardu ×	7,505																							
Gilgit ×	4,890																							
Misgar	10,190	696·2	...	692·5	699·7	695·9	*				*				65·5	78·3	49·5	54·1	7·1		6·7	34	...	21
NORTH PUNJAB																								
Lahore	702	974·0	0·0	971·3	997·6	994·5	96·6	—3·0	109	4	81·3	+1·2	75	18	85·2	91·8	80·3	82·1	33·1	+3·7	33·1	80	+11	66
Sialkot	830	970·0	0·0	967·0	997·5	994·8	94·0	—3·4	107	2,3	80·5	+0·9	73	4	83·9	91·1	78·6	80·7	31·0	+1·1	30·8	79	+4	64
Jhelum	765	972·5	...	969·3	997·9	994·7	95·3	...	108	2	79·6	...	73	7	84·3	91·7	79·7	83·3	32·5	...	34·9	82	...	70
Rawalpindi	1,674	942·5	+0·1	939·9	998·0	994·4	94·7	—3·1	108	2, 3, 4	76·4	—0·7	72	6, 19	81·5	90·9	75.6	78·6	27·8	+1·3	28·4	77	+11	58
Khushab	616	976·4	—0·3	973·3	997·1	993·5	98·4	—3·8	110	2	82·8	+0·4	74	3	86·5	95·2	79·9	82·5	31·9	+2·8	30·7	75	+9	58
Lyallpur	605	976·4	—0·1	973·9	996·8	993·9	97·2	—4·3	106	4	81·8	—0·9	76	9, 30	85·9	92·6	80·1	81·0	32·4	+4·2	30·8	77	+14	62
SOUTH PUNJAB																								
Montgomery	558	978·6	+0·5	975·2	996·8	993·6	98·4	—4·5	108	5	81·3	—2·4	78	5 days	86·3	94·5	79·8	80·9	31·8	+0·1	29·8	75	+5	56
Multan (P.B.O.)	405	982·6	...	979·5	996·1	992·6	102·7	...	110	7, 8	84·5	...	79	11	88·7	98·6	79·5	79·9	30·2	...	26·1	66	...	43
Port Abbas	475	979·9	...	976·5	995·6	992·3	101·3	...	111	6	83·6	...	72	7	86·9	96·8	78·8	78·9	29·9	...	25·3	69	...	45
Bahawalpur	384	983·0	—0·6	980·6	989·2	992·9	100·8	—2·5	108	6, 18	83·7	0·0	78	23	88·0	96·6	81·8	84·6	34·3	+2·4	35·0	76	+8	60
Khanpur	297	985·9	—0·8	982·6	995·8	992·2	105·1	—0·3	115	10	84·1	+1·0	79	14, 23	89·1	101·4	80·6	82·2	31·8	+2·4	28·8	68	+2	44

×Data not available. *Data rejected.

0300 HRS. G.M.T. AND 1200 HRS. G.M.T., JULY 1950

Cloud Amount (eighths of sky)			Precipitation						Wind Velocity Knots		Wind Direction—Number of Winds from :—																		STATION
											0300 hrs. G.M.T.									1200 hrs. G.M.T.									
Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0·10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	Nw	Calm	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
...	...		"	"	"																								
																													EAST PAKISTAN (North)
6·8	...	6·7	...	...	...	...	...	...	5·1	...	0	1	9	18	2	0	0	0	1	0	0	5	17	5	0	0	0	4	Sirajganj.
6·7	+0·4	5·7	5·51	—7·32	1·27	14	10	—6·8	3·0	+1·0	0	0	23	6	1	1	0	0	0	0	0	22	6	1	1	0	0	1	Bogra.
5·7	—0·5	4·7	7·41	—8·06	1·57	1	12	—4·7	3·8	+1·3	0	8	13	4	0	0	0	0	6	0	3	13	4	1	0	0	0	9	Dinajpur.
																													EAST PAKISTAN (East)
5·5	—1·0	6·2	48·94	+13·42	8·76	28	23	0·0	3·1	—1·2	0	0	0	17	7	0	0	0	7	0	0	0	7	23	0	0	0	1	Cox's Bazar.
6·7	+0·4	6·9	23·45	—0·08	3·76	27	19	+0·1	5·6	—1·4	0	0	2	23	5	1	0	0	0	0	0	1	13	14	3	0	0	0	Chittagong.
6·5	+0·7	5·8	20·20	—3·78	2·93	28	14	—4·8	8·1	+3·4	0	0	1	12	18	0	0	0	0	0	0	0	7	24	0	0	0	0	Comilla.
6·7	—0·3	6·0	12·31	—0·66	2·80	13	22	+4·3	5·2	+0·8	0	0	5	13	12	1	0	0	0	0	0	0	10	19	2	0	0	0	Narayanganj.
6·0	...	5·3	3·81	—7·50	1·05	2	6	—10·6	4·5	...	0	1	5	13	12	0	0	0	0	0	0	4	7	15	4	0	1	0	Brahmanbaria.
6·4	+1·0	6·7	8·99	—4·92	1·55	2	16	—4·8	1·6	—1·6	0	2	5	6	10	0	0	0	8	4	0	2	1	10	0	2	0	12	Srimangal.
7·6	+0·7	7·2	3·14	—12·88	1·28	3	7	—12·2	4·3	+2·0	0	0	3	7	2	0	0	0	19	0	0	1	5	1	0	1	0	23	Mymensingh.
																													EAST PAKISTAN (Deltaic)
7·2	+1·0	6.5	10·80	—1·94	1.80	1	17	—0·8	6·5	+1·2	0	11	17	0	0	0	0	0	3	0	7	23	0	0	0	0	0	1	Faridpur.
6·9	+0·6	7·0	21·41	+5·09	4.27	26	25	+3·9	5·1	+2·1	0	0	6	13	5	2	0	0	5	0	0	1	13	15	1	1	0	0	Barisal.
6·3	—0·7	5·9	12·20	—2·24	2.99	29	17	—4·1	(b) 4·4	+0·7	0	0	6	14	4	4	1	0	1	0	0	1	20	8	1	0	0	1	Khulna.
6·8	+0·4	6·2	11·03	—1·19	2.42	29	19	+1·3	4·6	+2·0	0	1	4	7	14	5	0	0	0	0	0	6	7	17	1	0	0	0	Jessore.
6·8	+0·9	6·9	9·98	—3·52	1.47	7	20	+1·6	3·3	+0·9	0	5	1	19	3	2	1	0	0	0	1	1	23	2	3	0	0	1	Satkhira.
																													KASHMIR
																													Srinagar ×
																													Gulmarg ×
																													Dras ×
																													Leh ×
																													Skardu ×
																													Gilgit ×
3·2	...	4·5	0·00	...	0·00	...	0	...	4·5	...	5	0	7	0	0	0	11	0	8	0	0	19	0	0	0	11	0	1	Misgar.
																													NORTH PUNJAB
5·6	+2·4	5.3	3·33	—2·12	1·01	18	7	+1.1	2·9	+0·7	2	1	4	13	3	0	2	0	6	1	6	4	5	2	3	0	0	10	Lahore.
6·2	+3·0	5·3	7·82	—0·53	1·66	30	10	+1·0	3·0	+1·1	1	6	10	5	0	1	0	3	5	1	5	2	8	0	8	1	4	2	Sialkot.
5·9	...	4·7	3·59		0·89	7	7		2·1		0	1	6	9	0	0	0	0	15	0	0	3	9	5	3	0	0	11	Jhelum.
5·3	+1·9	4·0	9·03	+0·96	2·87	22	10	+1·2	2·2	+0·5	0	3	1	0	2	2	0	0	23	0	0	3	2	4	9	0	0	22	Rawalpindi.
3·9	+1·4	4·1	3·82	—0·08	2·46	11	7	+2·7	5·6	+0·3	0	3	18	5	1	1	0	0	3	2	2	14	7	4	2	0	0	0	Khushab.
3·6	+0·4	4·3	6·29	+3·43	2·13	13	9	+5·2	1·7	—1·1	0	1	4	3	4	2	1	0	16	4	3	3	1	4	2	2	0	12	Lyallpur.
																													SOUTH PUNJAB
3·3	+1·4	4·0	4·91	+2·49	1·23	25	7	+3·7	1·2	—3·6	0	1	2	11	3	7	0	1	6	0	3	3	3	2	5	3	4	8	Montgomery.
3·3		4·2	0·42		0·18	18	3		6·1		2	3	4	5	5	7	0	0	5	1	3	3	4	6	6	6	1	1	Multan (P.B.O.)
4·5		5·2	2·61		0·90	8	5		7·2		0	1	7	4	11	4	4	0	0	2	5	5	3	3	5	2	4	2	Fort Abbas.
3·0	+0·8	4·4	2·47	+0·03	1·85	14	4	+0·8	3·2	—1·3	0	3	0	0	7	6	0	0	15	2	5	2	0	2	1	0	0	19	Bahawalpur.
2·8	+0·7	4·8	1·39	—0·93	0·58	30	4	+1·1	5·5	—1·7	4	4	1	1	6	14	1	0	0	1	5	5	4	5	9	1	1	0	Khanpur.

(b) Mean of 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATION	Height of bar. cistern above M.S.L. in feet.	Pressure at stations level in millibars: Mean 0300 hrs. G. M. T.	Pressure at stations level in millibars: Departure from normal.	Pressure at stations level in millibars: Mean 1200 hrs. G. M. T.	Pressure at M.S.L.: Mean 0300 hrs. G. M. T.	Pressure at M.S.L.: Mean 1200 hrs. G. M. T.	Maximum temperature °F: Mean.	Maximum temperature °F: Departure from normal.	Maximum temperature °F: Highest	Maximum temperature °F: Date	Minimum temperature °F: Mean.	Minimum temperature °F: Departure from normal	Minimum temperature °F: Lowest	Minimum temperature °F: Date	Dry bulb temperature °F: Mean 0300 hrs. G. M. T.	Dry bulb temperature °F: Mean 1200 hrs. G. M. T.	Wet bulb temperature °F: Mean 0300 hrs. G. M. T.	Wet bulb temperature °F: Mean 1200 hrs. G. M. T.	Vapour pressure millibars: Mean 0300 hrs. G. M. T.	Vapour pressure millibars: Departure from normal	Vapour pressure millibars: Mean 1200 hrs. G. M. T.	Relative humidity %: Mean 0300 hrs. G. M. T.	Relative humidity %: Departure rom normal	Relative humidity %: Mean hrs. G. M. T. 1200
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
N. W. F. P. (Upper)																								
Chakdara	~~2,229~~ 2197	924·3	...	922·5	997·5	993·9	96·0	...	106	2,3	76·0	...	70	12, 17	81·3	92·8	74·5	78·6	26·4	...	27·5	72	...	54
Peshawar	1,175	958·3	0·0	954·4	997·4	992·2	97·9	—4·6	108	3,4	80·4	+0·2	75	11, 12	84·8	96·4	77·8	79·6	29·4	+4·0	26·8	73	+15	47
Landikotal	3,503	885·6	...	881·1	888·9	885·8	93·0	...	102	3	75·2	...	70	12	81·9	90·0	73·4	76·4	24·6	...	25·6	73	...	53
N. W. F. P. (Lower)																								
Bannu	1,264	953·9	...	950·8	995·7	991·6	100·9	—2·2	109	3	(c) 84·2	+1·7	80	12, 13	88·8	98·8	78·5	79·2	28·6	+2·1	25·0	62	+4	41
Miranshah*	3,026																							
D. I. Khan ...	570	977·2	—0·1	974·1	996·4	992·6	101·7	—1·6	108	6,7,8	82·1	—0·6	77	18, 30	87·5	96·0	81·3	84·2	33·6	+2·7	34·6	75	+6	57
BALUCHISTAN (North)																								
Fort Sandeman ...	4,614	851·5	+0·4	850·7	889·4	886·4	97·6	—1·7	104	2	74·2	—0·9	67	8	77·9	91·9	66·0	70·2	17·0	—2·3	15·3	51	—10	33
Hindu bagh ...	5,950	813·4	...	810·0	789·8	786·4	97·5	...	103	8	68·1	...	62	12	79·4	90·5	62·1	61·5	12·9	...	8·5	54	...	27
Loralai	4,699	848·6	...	845·9	889·0	885·3	91·6	...	100	2	67·7	...	62	12	77·8	86·5	69·2	71·2	21·2	...	20·0	58	...	45
Sibi	441	981·9	+1·0	977·8	995·2	990·8	107·5	—0·3	115	8	87·8	+0·6	74	27	89·1	106·1	80·9	82·9	32·2	+5·1	28·0	60	+5	36
Quetta	5,490	823·4	—2·6	821·1	789·3	788·0	94·7	...	98	7, 8	67·1	...	61	17	78·9	91·1	*	*	*	...	*	*	...	*
Quetta (Samungli) ...	5,253	833·0	...	830·3	792·1	790·3	97·0	...	101	22	67·5	...	~~60~~ 72	17	77·0	93·2	71·3	74·3	24·4	...	21·8	73	...	46
Chaman	4,311	861·9	+2·2	859·8	891·4	887·4	102·8	+1·7	106	27	78·7	+2·4	~~27~~	31	87·6	99·7	69·1	72·3	15·9	+3·0	15·7	39	+6	25
Nushki	3,412	888·5	...	885·9	890·2	887·6	108·9	...	111	8, 9	84·8	...	77	31	91·5	104·7	67·7	70·3	13·2	...	11·4	27	...	16
Kalat	6,616	793·8	—0.1	791·9	790·3	789·5	92·1	+1·0	98	20	63.7	+1·5	59	2	73·0	84·4	63·2	67·1	16·1	+3·8	15·9	58	+11	40
Dalbandin	2,785	904·1	—1·7	901·0	886·7	884·2	108·9	+0·2	112	6, 27	79·8	+3·6	68	2	87·0	107·4	66·3	72·2	13·9	+1·2	12·9	31	—2	15
Nokkundi	2,229	921·1	...	918·2	992·8	987·4	110·6	+1·2	115	4 days	85·5	+1.9	71	2	90·1	108·4	73·3	71·3	19·6	+2·4	17·1	46	+8	20
BALUCHISTAN (South)																								
Las Bela	292	988·3	—0·5	985·0	998·0	994·6	98·2	—2·6	106	12	*	...	...	...	83·9	94·3	79·7	82·5	34·7	+1·8	33·3	82	+1	63
Ormara	15	997·2	...	994·4	997·8	994·7	89·6	—0·6	94	3,16	80·4	—0·8	78	27	83·1	87·7	79·5	81·0	32·8	+1·2	33·8	84	+1	74
Pasni	10	997·4	—1·2	995·1	997·7	995·5	90·6	—0·6	95	27	79·1	+0·2	76	12	82·8	87·9	77·8	80·3	32·6	0·0	32·1	83	—1	69
Turbat	510	982·3	...	978·5	999·5	994·8	102·7	...	107	5,7,22	80·7	...	76	10	85·4	99·9	81·1	89·0	33·5	...	41·6	82	...	61
Panjgur ...	3,177	893·8	+0·7	891·3	888·4	886·1	101·2	—2·1	106	6	76.1	+0·2	69	1	80.5	96·8	71·9	70·3	23·6	+0·6	14·7	66	+1	25
SIND (Upper)																								
Reti	280	987·4	...	984·0	996·9	993·2	105·7	...	113	7	83·2	...	81	3, 4	87·6	102·4	79·3	81·5	30·5	...	27·4	69	...	40
Jacobabad	183	989·3	—0·7	986·0	995·6	992·0	106·4	—1·6	114	8	88·4	+0.4	80	16	89·4	103·2	80·8	83·5	31·7	—1·4	30·3	68	0	43
Sukkur	221	987·8	—1·1	984·5	995·2	991·2	*	...	...	...	83·7	+0·7	78	16	86·1	100·7	79·3	83·6	30·7	—0·7	32·0	73	—2	49
Pad Idan	153	990·1	...	987·2	995·4	992·1	104·8	...	112	7	82·1	...	74	12	86·4	99·3	79·7	83·2	31·5	...	31·2	75		49
SIND (Lower)																								
Umarkot	55	994·0	...	991·0	995·8	992·7	96·5	...	105	6	80·4	...	79	4 days	85·8	95·1	81·6	85·8	35·2	...	37·8	84	...	68
Hyderabad ...	96	993·9	—0·3	990·5	997·0	994·0	99·9	+0·6	107	7	81·2	—0·2	77	15	85·1	95·7	78·7	80·5	30·3	+1·5	28·9	73	+2	51
Karachi (Drigh Road)	73	995·4	...	993·2	997·9	995·7	90·0	...	95	6	80·1	...	77	27, 31	82·6	86·1	79·1	79·7	32·4	...	31·6	85	...	74
Karachi (Manora) ...	13	997·4	—1·1	995·4	997·9	995·8	87·0	—1·5	90	6	80·1	—1·0	77	15, 27	81·8	85·2	78·9	80·0	32·5	—0·3	32·7	87	+1	83
Badin	31	*	...	*	*	*	94·7	—0·2	104	6	...	...	...	...	83·2	91·2	77·7	79·2	30·5	—0·9	28·9	78	—1	57

(c) Mean of 28 days. *Data rejected.

G. M. T. AND 1200 HRS. G.M.T., JULY 1950.—*contd.*

Cloud Amount (eigths of sky)			Precipitation						Wind Velocity knots		Wind Direction— Number of Winds from :																			STATION
											0300 hrs. G.M.T.									1200 hrs. G.M.T.										
Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from Normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54		55
			"	"	"																									N. W. F. P. (Upper)
4·6	...	2·8	3·15	...	2·00	17	4	...	5·0	...	1	2	3	3	2	3	5	3	9	0	8	5	3	5	6	0	0	4		Chakdara.
4·6	+1·8	3·5	1·76	+0·50	1·15	23	3	+1·0	4·2	+2·0	9	4	2	0	0	1	1	4	10	4	19	2	0	1	2	1	0	2		Peshawar.
3·7	...	3·3	0.30	...	0·15	31	2	...	5·5	...	1	17	0	4	1	0	0	4	3	2	9	1	12	1	4	0	2	0		Landikotal.
																														N. W. F. P. (Lower)
5·0	+2·9	5·1	0·22	—1·99	0·22	4	1	—2·2	3·5	...	0	2	6	13	1	0	0	0	9	1	2	6	17	3	0	0	0	2		Bannu.
																														Miran halt.
2·2	+0·2	2·0	0·83	—1·46	0·77	29	1	—1·8	2·8	+1·0	1	15	4	8	0	0	1	1	1	1	7	4	11	0	3	0	0	5		D. I. Khan.
																														BALUCHISTAN (North)
1·4	0·0	4·7	1·27	—0·87	0·50	8	4	+0·2	...	...	0	1	0	0	0	0	0	0	30	1	5	1	6	0	1	0	4	13		Fort Sandeman.
1·3	...	3·9	0·45	...	0·14	12	1	...	...	...	0	3	8	7	4	5	3	1	0	0	1	10	5	0	6	7	2	0		Hindubagh.
2·2	...	4·2	3·68	+2·14	0·99	29	7	+4.1	2.8	...	0	1	1	0	0	0	2	0	27	1	1	5	7	12	1	0	0	4		Loralai.
3·2	+1·6	3·8	2·57	+1·17	1·32	16	4	+1.4	4.6	—0·6	0	1	1	7	6	3	1	3	9	1	0	2	8	11	8	1	0	0		Sibi.
1·9	+0·8	4·0	1·37	...	0·39	15,30	4	...	5.7	+3·3	4	1	1	4	11	8	1	1	0	6	2	2	1	5	6	3	6	0		Quetta.
2·2	...	3·3	1·01	...	0·73	31	2	...	7.5	...	1	1	2	4	6	0	1	10	6	0	1	0	2	5	1	8	13	1		Quetta (Samungli).
1·0	+0·3	2·1	0·26	+0·19	0·26	31	1	+0.8	1.5	—3·5	0	2	2	5	3	10	4	0	5	0	0	1	2	1	4	14	9	0		Chaman.
1·6	...	2·8	0·13	...	0·13	31	1	...	8.9	...	2	0	6	8	6	3	2	1	3	1	0	2	2	1	6	9	8	2		Nushki.
2·2	+0·6	4·8	3·16	+2·56	0.75	15	3	+1·5	3·7	—0·3	0	1	0	25	2	0	0	1	1	3	5	0	4	1	3	0	14	1		Kalat
3·0	+2·0	2·9	0·00	—0·12	0·00	...	0	—0.4	4.9	+0·2	1	0	0	2	3	4	8	0	13	0	0	0	0	6	13	4	0	8		Dalbandin.
0·0	—1·0	0·0	0·00	0·00	0·00	...	0	0·0	8.6	—3·8	0	9	0	3	1	0	1	17	0	0	1	0	3	1	2	1	23	0		Nokkundi.
																														BALUCHISTAN (South)
1·8	—3·6	3·2	4·65	+2.02	0·85	27	9	+5.5	3·3	+0.2	0	0	0	0	0	0	0	0	31	0	1	11	10	0	1	0	2	0		Las Bela.
5·8	+0·1	4·4	0·17	—0·48	0·16	16	1	—0.3	8·5	—0·1	0	0	1	1	0	13	13	1	2	0	0	0	1	3	15	12	0	0		Ormara.
(b) 5·8	+0·8	2·6	0·17	—0·30	0·13	27	1	+0·4	7·1	+1·3	1	0	6	4	1	7	8	0	4	0	0	0	4	7	18	1	0	1		Pasni.
1·0	...	0·0	0·00	...	0·00	...	0	...	6·9	...	0	0	0	4	4	6	9	2	6	0	0	0	4	5	14	6	2	0		Turbat.
4·2	+2·4	4·5	0·72	—0·07	0·42	28	2	+2·7	4·8	—0·1	0	3	1	1	2	10	11	1	2	0	1	0	3	2	14	5	6	0		Panjgur
																														SIND (Upper)
2·7	...	2·8	0·01	...	0·01	16	0	...	8·1	...	0	4	1	2	9	11	1	0	3	2	4	1	5	8	2	3	1	5		Reti.
4·0	+2·5	4·1	0·86	—0·09	0·25	28	2	+0·5	7·9	+1·4	2	1	3	17	2	1	0	3	2	0	4	2	17	7	1	0	0	0		Jacobabad.
4·6	+2·9	4·6	0·79	—0·65	0·36	28	2	+0·3	3·2	—1·2	2	2	4	5	6	8	3	0	1	4	6	2	2	6	9	2	0	0		Sukkur.
5·2	...	4·9	3·67	...	2·16	12	3	...	7·3	...	3	2	0	20	4	1	0	0	1	2	1	0	9	10	3	1	3	2		Pad Idan.
																														SIND (Lower)
5·6	...	4·2	1·67	...	0·87	31	2	...	8·5	...	0	0	0	0	1	23	0	1	6	0	0	0	0	2	24	0	2	3		Umarkot.
5·0	+1·5	3·6	2·30	—0·68	1·16	31	5	+2.1	7·8	—1·5	3	0	0	0	1	23	3	1	0	2	0	0	0	0	27	0	1	1		Hyderabad.
7·1	...	5·9	4·63	...	1·93	30	5	...	12·6	...	0	0	0	0	0	11	17	1	2	0	0	0	0	0	18	13	0	0		Karachi (Drigh Road).
7·0	+0·9	5·4	2·90	—0.30	1·10	30	5	+2·5	10·7	—0·4	0	0	0	0	0	12	17	0	2	0	0	0	0	0	14	16	0	1		Karachi (Manora).
5·3	+0·4	5·0	4·41	+0·44	1·71	31	6	+2.2	5·5	...	0	0	0	0	0	23	6	0	2	0	0	0	0	3	24	1	1	2		Badin.

(b) Mean of 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATION	Height of Barometer above M.S.L. in feet	Pressure at station level, millibars			Pressure at M. S. L. millibars		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure millibars			Relative humidity %		
		Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Mean 0300 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0300 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0300 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
HILL STATIONS (Excluding Kashmir & Baluchistan)																								
Murree	7,113	780·0	—0·3	778·6	791·5	789·9	71·6	—4·6	81	3	60·6	+1·7	57	9	64·4	68·6	61·9	65·2	18·0	+0·8	20·0	88	+10	83
Cherat	4,272	861·9	0·0	859·6	890·4	887·1	82·0	—7·7	99	4	69·3	—2·4	64	11, 23	73·2	83·5	70·3	76·9	24·1	+3·5	28·9	87	+15	64
Drosh	4,806	845·1	—2.2	839·7	888·4	881·7	97·5	+0·8	102	29	77·0	+3·5	73	4 days	81·0	94·8	68·4	69·6	18·6	+1·1	14·5	52	—4	26
Parachinar	5,673	819·2	—1·2	818·2	792·1	789·5	85·7	—1·4	91	4, 5	67·9	+1·5	64	15	73·8	80·7	67·8	71·2	21·0	+3·6	22·7	74	+14	64
Wana	4,456	858·6	...	856·0	891·9	888·9	92·8	+1·0	101	3, 4	71·9	+0·6	65	5	78·3	85·5	71·1	72·3	22·7	+3·1	24·0	67	+5	54
AFGHANISTAN																								
Jalalabad	1,950	922·5	...	919·9	985·3	980·5	101·0	...	108	3	81·8	...	79	24	84·3	96·6	*	*	*	*	*	*	...	*
Kabul	5,955	814·5	...	811·4	794·5	792·4	93·7	+1·7	97	26,29, 30	60·7	+0·1	57	4 days	70·5	92·0	57·3	64·8	11·3	+0·5	11·1	45	+7	22
Kandahar	3,462	886·6	...	883·3	890·0	886·4	101·0	...	103	8, 9, 12	68·0	...	61	25	77·7	96·5	69·2	82·3	20·9	...	31·8	64	...	54
IRAN																								
Jask(f)	13	995·2	...	993·8	995·6	994·2	94·5	—1·7	103	7	84·8	—0·4	82	7	85·9	93·1	81·5	83·9	34·7	...	35·7	81	...	68
ARABIA																								
Muscat	20	995·3	...	993·8	995·8	994·3	89·2	—5·9	98	1	83·8	—3·4	80	10, 11	85·1	86·7	81·7	82·1	35·1	...	35·9	85	...	81
Kuwait✗	16	996·8	...	995·0	997·3	995·5	102·7	...	115	11	85·7	...	82	26	88·2	99·3	64·6	76.5	10·1	...	20·2	40	...	33

✗Recorded at 0500 hrs. G.M.T. instead of 0300 hrs. G.M.T. (f) Data available for 25 days. *Data Rejected.

TABLE III.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS JULY 1950

STATION	Maximum temperature F				Minimum temperature F				Mean dry bulb temperature 0300 hrs. G.M.T. °F	Mean wet bulb temperature 0300 hrs. G.M.T. °F	Vapour Pressure millibars		Relative humidity %		Mean Cloud Amount 0300 hrs. G.M.T.	Precipitation						Wind	
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date			Mean 0300 hrs. G.M.T.	Departure from normal	Mean 0300 hrs. G.M.T.	Departure from normal		Total of the Month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10 in. or more	Departure from normal	Resultant direction 0300 hrs. G.M.T.	Velocity in knots
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
EAST PAKISTAN (North)																							
Pabna	88·9	—0·8	92	11	✗	...	...	...	84·3	80·4	33·2	—0.4	83	—1	...	5·25	—5·84	0·90	17	16	—0·6	...	...
KASHMIR																							
Jammu✗																							
Kargil✗																							

✗Data not available.

G.M.T. AND 1200 HRS. G.M.T., JULY 1950.—*concld.*

Cloud Amount (eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction—Number of Winds from :—																		
											0300 hrs. G.M.T.									1200 hrs. G.M.T.									STATION
Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Total of the mnth	Departure from normal	Heaviest fall in 24 hours	Date	No. of Days with 0.10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																													HILL STATIONS (Excluding Kashmir & Baluchistan)
6·7	+2·6	6·7	12·21	—0·19	1.58	10	20	+6·7	3·7	0·0	1	0	7	4	0	0	5	1	13	0	0	4	3	0	0	9	3	12	Murree.
5·5	+2·4	3·2	5·90	+2·26	2.06	11	5	+0·2	7·4	+2·4	1	0	0	6	15	2	0	4	3	0	0	0	8	22	1	0	0	0	Cherat.
1·8	+0·4	2·0	0·07	—0·53	0.07	22	0	—1·5	7·7	+3·3	0	0	1	0	2	8	3	0	17	0	0	0	0	0	18	13	0	0	Drosh.
3·4	+0·9	5·2	5·43	+1·91	1.12	15	11	+6·2	3·5	+1·3	0	1	4	9	2	0	0	3	12	1	2	3	19	0	1	0	4	1	Parachinar.
1·2	—0·3	4·5	2·30	+0·57	1.08	13	7	+3·0	2·5	...	0	0	0	7	2	1	0	0	21	0	7	5	11	1	2	0	2	3	Wana.
																													AFGHANISTAN
2·9	...	2·0	0·00	...	0.00	...	0	...	5·0	...	0	0	4	9	1	0	0	1	16	0	9	16	6	0	0	0	0	0	Jalalabad.
0·7	+0·1	1·2	0·00	—0·07	0.00	...	0	—0·3	2·8	+0·9	2	2	1	2	1	2	9	7	5	13	14	1	0	1	0	0	1	1	Kabul.
0·7	...	1·2	0·00	...	0.00	...	0	...	0·9	...	0	2	0	2	0	0	0	0	27	0	0	0	0	0	4	0	0	27	Kandahar.
																													IRAN
4·8	...	2·8	0·00	—0·02	0.00	...	0	0·0	...	...	0	0	24	0	0	0	1	0	0	0	0	1	6	13	4	1	0	0	Jask (f).
																													ARABIA
4·0	+1·4	2·1	0·02	+0·01	0.02	31	0	—0·1	2·9	—0·2	2	3	6	5	0	0	1	4	10	0	3	2	1	0	0	1	10	14	Muscat.
0·5	...	0·0	0·00	...	0·00	...	0	...	6·1	...	1	0	0	0	0	4	11	15	0	1	1	3	2	0	0	6	17	1	Kuwait*

TABLE IV.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 5TH CLASS STATIONS—JULY 1950

DIVISION	STATION	PRECIPITATION					
		Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal
1	2	3	4	5	6	7	8
EAST PAKISTAN (*North*)							
	Rajshahi	7·40	—3·73	1·70	4	15	—0·3
	Rangpur	6·13	—9·88	1 90	7	10	—5·0
KASHMIR							
	Sonamarg*						
	Gurez*						
BALUCHISTAN (*North*)							
	Harnai	5·53	+2·43	1·57	28	13	+8·0

*Data not available.

Pakistan. Meteorological Service

Registered No. S-1452

PAKISTAN WEATHER REVIEW, 1950

Monthly Weather Report

August

Published by the authority of the Government of Pakistan

Chief features :—(1) Locally heavy downpours over the north Punjab on the first two days.

(2) A large break in monsoon over the Indo-Pakistan sub-continent outside East Pakistan during the second fortnight (from the 14th to 29th).

West Pakistan :—In association with the shallow depressions which moved westwards through the Indian region and brought fresh monsoon into West Pakistan, nearly general rain occurred in Sind on the 7th and scattered on the 8th and monsoon activity continued well-marked over the Punjab, the North-West Frontier Province and north Baluchistan during the first three days. Thereafter monsoon withdrew temporarily from the Indo-West Pakistan region while the break period lasted for a fortnight.

Western disturbances moving farther north of West Pakistan caused spells of wet weather in the North-West Frontier Province and the Punjab from the 14th to 16th and over the extreme north of West Pakistan thereafter till the end of the month.

Monsoon advanced into the north Punjab on the 30th and local rain/thundershowers occurred in the north Punjab and the upper North-West Frontier Province on the last two days of the month.

According to newspaper reports dated 21st August about 300 houses collapsed in the villages of Pandoki and Suddoki, about 20 miles from Lahore during the rains of 1st, 2nd and 3rd.

Some of the noteworthy amounts of rainfall recorded during the month were:—Rawalpindi 5" and Jhelum 2" on the 1st ; Lyallpur, Lahore, Rawalpindi and Cherat 2" each on the 2nd ; Lyallpur 4", Harnai 3", Khushab, Multan and Cherat 2" each on the 3rd ; Lahore 2", on the 6th ; Jhelum 3" on the 9th ; Fort Abbas 3" on the 10th ; Cherat 4" and Sialkot 2" on the 15th ; Rawalpindi 3" on the 17th ; Murree 2" on the 21st and 23rd and 3" on the 22nd.

The mean actual rainfall during the month was in large excess in the north Punjab, in moderate excess in north Baluchistan, in slight excess in the lower North-West Frontier Province, in moderate defect in the south Punjab and the upper North-West Frontier Province and in large defect in south Baluchistan and Sind. Averaged over the plains of West Pakistan it was in slight excess.

The mean maximum and minimum temperatures were normal over the region except the upper North-West Frontier Province where the mean maximum temperature was below normal and south Baluchistan where the mean minimum temperature was above normal. Mean relative humidity was in excess in the north Punjab and the upper North-West Frontier Province and normal elsewhere. Skies were more clouded than usual in the north Punjab, the lower North-West Frontier Province and upper Sind, less clouded than usual in south Baluchistan and normally clouded elsewhere.

East Pakistan :—Monsoon was vigorous on the 3rd and 4th when locally heavy falls were recorded and generally active throughout the month, except on the 8th, and again from the 24th to 26th when its activity was less marked due to unsettled conditions at the head Bay.

Some of the noteworthy amounts of rainfall recorded during the month were :—Rangpur 3" on the 1st ; Narayanganj 7", Brahmanbaria and Faridpur 4" each and Mymensingh 3" on the 2nd ; Bogra 8" on the 3rd ; Cox's Bazar 5" on the 4th ; Chittagong 4" on the 10th and 12th ; Cox's Bazar 3" on the 10th, 12th and 15th ; Chittagong 3" on the 16th ; Rangpur 3" on the 16th, 19th and 22nd ; Comilla 5" and Narayanganj 4" on the 21st ; Faridpur 3" on the 23rd.

The mean actual rainfall during the month was in moderate excess in the Northern and the Eastern sub-divisions and in slight excess in the Deltaic sub-division. Averaged over the region as a whole it was in moderate excess.

The mean maximum and minimum temperatures, relative humidity and cloudiness were normal over all the sub-divisions.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud for the 5 chief divisions and 12 sub-divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables

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TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—AUGUST 1950.

	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	Inches	Inches	Inches		°F	°F	mb	%	
DIVISION									
1. East Pakistan	18.57	14.62	+3.95	+27	—1.1	—0.4	0.0	+3	+0.8
Mean of East Pakistan	18.57	14.62	+3.95	+27	—1.1	—0.4	—0.0	+3	+0.8
2. Punjab	6.76	4.77	+1.99	+42	—1.1	—0.8	+0.9	+5	+0·5
3. North-West Frontier Province	1.94	2.01	—0.07	—3	—2.5	—1.0	+1.3	+6	+0.5
4. Baluchistan	0.88	0.79	+0.09	+11	0.0	+0.3	+1.2	+2	—0.3
5. Sind	0.23	1.58	—1.35	—85	—0.5	—0.1	—1.6	—1	+0.4
6. Mean of West Pakistan excluding Baluchistan ...	3.72	3.22	+0.50	+16	—1.1	—0.6	+0.1	+3	+0.5
SUB-DIVISION									
1. East Pakistan (North)	16.03	12.25	+3.78	+31	—1.3	—1.1	—0.7	+1	+0.9
2. East Pakistan (East)	22.35	17.29	+5.06	+29	—1.4	—0.2	+0.2	+4	+0.9
3. East Pakistan (Deltaic)	13.99	12.32	+1.67	+14	+0.1	—0.4	+0.1	+1	+0.6
4. Kashmir*									
5. North Punjab	10.84	6.28	+4.56	+73	—1.1	—0.5	+1.1	+6	+0.9
6. South Punjab	1.31	2.05	—0.74	—36	—1.0	—1.1	+0.7	+5	—0.1
7. North-West Frontier Province (Upper)	1.38	2.03	—0.65	—32	—4.3	—1.9	+1.5	+10	+0.5
8. North-West Frontier Province (Lower)	2.23	1.99	+0.24	+12	—1.7	—0.5	+1.2	+3	+0.5
9. Baluchistan (North)	1.22	0.93	+0.29	+31	+0.1	—0.3	+0.7	+3	+0.1
10. Baluchistan (South)	0.07	0.45	—0.38	—84	—0.1	+2.1	+2.2	0	—1.1
11. Sind (Upper)	0.29	1.00	—0.71	—71	—1.4	—1.3	—1.5	+1	+0.6
12. Sind (Lower)	0.20	1.97	—1.77	—89	+0.1	+0.6	—1.7	—2	+0.2

*Data incomplete.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATIONS	Height of bar. cistern above M.S.L. in feet	Pressure at station level in millibars			Pressure at M. S. L.		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure millibars			Relative humidity %		
		Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G.M.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0300 hrs. G.M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G.M.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
EAST PAKISTAN (North)																								
Sirajganj	48	999.0	—	996.8	1000.7	998.5	86.2	—	90	8	78.3	—	75	22,23	81.5	82.9	79.3	79.9	32.9	—	33.6	91	—	87
Bogra	63	999.8	—0.7	996.9	1002.0	999.1	87.2	—1.6	93	8	78.1	—0.5	74	3	81.4	83.7	79.0	79.9	32.2	0.0	33.2	89	+2	84
Dinajpur	123	998.1	—0.1	995.1	1002.3	999.3	88.6	—0.4	93	8	77.1	—1.8	70	16	81.5	83.8	78.7	79.9	31.4	—1.6	33.2	88	+1	84
EAST PAKISTAN (East)																								
Cox's Bazar ...	38	1003.4	+0.5	1001.1	1004.7	1002.4	86.0	+0.7	90	26	76.5	+0.4	73	31	81.5	81.0	78.8	78.2	32.2	+0.5	31.4	88	0	88
Chittagong ...	87	1001.0	—0.3	998.4	1004.0	1001.4	84.3	—1.6	89	26	76.6	+0.2	74	27	80.7	80.1	77.4	77.3	30.6	—0.7	30.3	86	0	88
Comilla	29	1002.2	—0.7	999.6	1003.2	1000.6	84.0	—3.5	90	26	77.3	+0.4	75	22,31	80.8	82.2	78.7	80.1	32.9	+0.8	34.1	91	+7	88
Narayanganj ...	26	1001.2	—1.1	998.2	1002.0	999.1	86.7	—1.1	91	26,27	77.9	—0.9	74	3,23	82.1	82.9	79.1	79.3	32.5	—0.3	32.8	87	+1	85
Brahmanbaria ...	32	1002.2	—	998.9	1003.3	1000.0	87.4	—2.0	92	6,26	77.1	+0.9	69	2	81.7	82.7	78.8	79.3	32.5	+1.9	32.8	88	+8	85
Srimangal	69	1001.4	—0.3	998.2	1003.8	1000.6	86.6	—3.5	92	6	76.1	0.0	73	22	79.1	80.7	77.5	78.6	31.5	—0.3	32.9	93	+8	91
Mymensingh ...	62	1001.0	—0.4	998.0	1003.2	1000.2	89.1	+1.4	96	8	76.2	—2.1	75	7 days	80.7	83.1	78.4	79.6	32.2	—0.5	32.8	90	+3	86
EAST PAKISTAN (Deltaic)																								
Faridpur	46	1000.3	—1.0	997.7	1001.9	999.3	83.2	—3.9	87	27	78.6	—0.1	76	2,23	82.1	82.6	79.4	79.4	33.3	0.0	33.6	87	+1	86
Barisal	11	1002.3	—0.2	999.3	1002.7	999.7	86.0	—1.0	91	26	78.3	0.0	75	22	81.9	81.6	79.3	78.6	33.3	+0.5	32.5	89	+3	87
Khulna	16	1002.5	+0.6	1000.7	1003.1	1001.2	87.2	—0.7	93	15,17, 27	78.3	—0.2	75	22	82.9	83.1	79.3	79.0	32.8	+0.2	32.0	85	+1	82
Jessore	26	1001.0	—0.6	998.2	1001.9	999.1	89.1	+1.0	93	28	77.0	—0.8	73	22	83.2	83.3	80.3	79.9	33.6	+0.2	32.8	88	+2	86
Satkhira	16	1000.8	—0.7	997.9	1001.3	998.4	88.5	0.0	91	7 days	78.0	—0.4	75	22,31	82.2	83.4	79.8	80.7	33.3	—0.3	34.8	90	+4	88
KASHMIR																								
Srinagar†	5,205																							
Gulmarg†	8,709																							
Dras†	10,059																							
Leh†	11,529																							
Skardu†	7,505																							
Gilgit†	4,890																							
Misgar	10,190	697.0	—	694.2	700.8	697.5	*				*				58.5	73.2	47.9	53.2	8.1	—	7.6	50	—	31
NORTH PUNJAB																								
Lahore	702	975.5	—0.6	973.0	999.2	996.2	96.7	—0.3	105	28	80.1	+1.4	74	3,6	84.4	93.0	79.6	81.8	32.3	+2.5	32.0	81	+8	62
Sialkot	830	971.6	—0.7	968.8	999.6	996.4	92.5	—1.7	98	26,28	77.3	—0.9	72	17,30	81.7	89.7	77.5	81.0	30.3	—0.6	32.7	83	—1	67
Jhelum	765	973.6	—	971.1	999.3	996.2	93.1	—	99	26,27, 28	76.5	—	70	30	81.9	91.5	77.5	83.0	30.2	—	34.7	82		69
Rawalpindi... ...	1,674	942.6	—1.9	940.8	998.5	995.7	92.3	—1.4	98	27,28	73.5	—2.9	68	30	79.2	88.0	75.5	79.4	28.7	+0.9	30.7	84	+10	70
Khushab	616	977.7	—1.4	974.9	997.5	995.3	97.6	—2.2	107	28	80.4	—0.7	74	3	84.2	94.1	79.0	81.6	31.5	+1.7	30.7	79	+9	56
Lyallpur	605	977.6	—1.4	975.5	997.7	995.5	97.0	—1.0	105	28,29	80.1	—0.4	73	3,31	83.8	93.6	78.3	81.1	30.5	+1.4	30.4	77	+6	59

†Data not available. *Data rejected.

0300 HRS. G. M. T. AND 1200 HRS. G. M. T. AUGUST, 1950.

Cloud Amount (eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction. Number of Winds from :—																			STATIONS
											0300 hrs. G.M.T.									1200 hrs. G.M.T.										
Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0·10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	S	S	SW	W	NW	Calm		
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54		55
			"	"	"																									EAST PAKISTAN (North)
7·7		7·5							3.5		0	0	7	7	5	0	0	0	12	0	0	3	7	7	0	0	0	14	Sirajganj
7·0	+0.9	6·6	20·88	+7·88	7·96	3	19	+2·6	2.7	+1.0	0	0	15	4	6	4	0	0	2	0	0	15	5	5	1	0	0	5	Bogra.
6.8	+0.9	5·8	11·31	—2.40	1.34	14	19	+3.7	2.9	+0.6	0	1	11	3	0	0	0	0	16	0	3	7	2	0	0	0	0	19	Dinajpur.
																														EAST PAKISTAN (East)
6·3	+0.1	6.6	28·65	+0.90	4.89	4	27	+5.1	2.7	—1.7	0	0	0	7	16	0	0	0	8	0	0	0	0	17	0	0	0	14	Cox's Bazar.
7·1	+0.8	7.3	23·33	+2·91	4.00	10	18	+0.9	4.9	—1.5	0	0	4	18	7	1	0	0	1	0	0	0	10	17	3	0	0	1	Chittagong.
7·2	+1.6	7.3	28.00	+10·82	5.35	21	23	+5.2	7.0	+3.0	0	0	0	15	16	0	0	0	0	0	0	0	8	23	0	0	0	0	Comilla.
7·2	+0·3	7.3	27·99	+14·73	7.20	2	20	+2.4	4.1	+0.1	0	0	1	13	10	5	1	0	1	0	0	0	9	18	1	1	0	2	Narayanganj.
7·0		5.7	13·37	+0·71	4.09	2	16	—0.8	4.2		0	0	1	12	15	1	0	0	2	0	0	2	7	15	3	2	0	2	Brahmanbaria
7·3	+2·0	7.1	15·55	+1·25	2.22	22	24	+3.9	2.7	—0.3	2	0	5	6	13	0	0	0	5	0	2	1	2	15	0	1	0	10	Srimangal.
7·8	+1.0	7.8	19·54	+4·05	2.91	2	18	—0.7	2.6	+0.7	0	0	2	1	0	0	0	0	28	0	0	2	1	0	0	0	0	28	Mymensingh.
																														EAST PAKISTAN (Deltaic)
7·3	+1.3	7.3	11·96	+5·83	4.38	2	20	+2.9	5.5	—0.1	0	2	19	5	0	0	0	0	5	0	2	24	5	0	0	0	0	0	Faridpur.
7·3	+1·1	7.6	13·13	—1·81	1.57	2	23	+2.7	3.8	+1.3	0	0	4	13	9	2	0	0	3	0	0	1	6	19	4	0	0	1	Barisal.
6·6	—0.2	5.7	11·12	—2·67	1.91	16	19	+0.6	3.6	0.0	0	0	3	6	11	9	1	0	1	0	0	2	9	11	5	1	0	3	Khulna.
6·9	+0.6	6.6	12·89	+1.85	1.24	4,15	22	+5.4	3.7	+1.3	0	0	3	6	14	5	2	0	1	0	0	6	2	18	3	1	0	1	Jessore.
6·6	+0·8	6.8	14·16	+2.59	2.36	3	14	—3.2	3.3	+1.0	0	2	0	18	7	4	0	0	0	0	1	0	13	9	3	0	1	4	Satkhira.
																														KASHMIR
																														Srinagar.†
																														Gulmarg.†
																														Dras.†
																														Leh.†
																														Skardu.†
																														Gilgit.†
2.9		3.6	0.46		0.18	18	2		4.1		0	2	4	0	0	0	5	1	19	0	1	9	10	0	0	9	0	2	Misgar.†
																														NORTH PUNJAB
3.6	+0.5	4.2	7.01	+1.86	2.39	2	5	—0.7	2.4	+0.7	0	2	2	5	6	3	2	0	11	0	2	3	4	4	2	3	1	12	Lahore.
6.2	+2.8	4.9	8.66	—0.64	2.27	15	14	+5.0	2.3	+0.7	0	6	8	7	3	0	1	0	6	0	6	0	6	3	0	1	4	5	Sialkot.
4.0		3.7	10.90		3.49	9	14		1.6		2	1	4	4	0	0	0	3	17	0	1	2	9	0	3	0	0	16	Jhelum.
4.6	+1.2	3.4	20.39	+11.22	4.89	1	16	+6.9	2.0	+0.6	1	1	4	2	2	0	0	0	21	1	2	0	0	3	0	1	0	24	Rawalpindi.
2.6	+0.2	2.6	4.20	+0.69	1.80	3	4	+0.3	4.5	—0.1	0	7	8	13	0	0	0	0	3	0	5	8	14	2	0	0	2	0	Khushab.
2.4	—1.1	3.8	7.31	+3.73	3.87	3	5	—0.3	2.0	—0.4	1	1	1	5	5	2	3	0	13	0	2	3	4	11	1	1	1	8	Lyallpur.

†Data not available.

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TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATIONS	Height of bar. cistern above M.S.L. in feet	Pressure at station level in millibars			Pressure at M. S. L.		Maximum temperature OF				Minimum temperature OF				Dry bulb temperature OF		Wet bulb temperature OF		Vapour pressure millibars			Relative humidity %		
		Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SOUTH PUNJAB																								
Montgomery ...	558	980.1	—0.5	977.5	998.9	996.0	98.1	—2.0	104	28	79.2	—2.5	74	3,12	84.6	95.6	79.9	80.3	29.2	—1.9	28.3	72	—3	51
Multan P.B.O. ...	405	984.6		981.8	998.3	995.1	99.1		103	27,28	81.8		74	3	84.9	96.9	77.6	80.4	29.0		27.8	71		47
Fort Abbas ...	475	982.2		979.2	998.1	995.0	98.2		103	4 days	80.0		75	10	84.3	94.1	76.9	76.8	28.2		23.7	69		45
Bahawalpur ...	384	985.6	—0.7	982.5	998.5	995.1	99.8	—0.8	105	28	81.6	—0.1	78	8	84.2	97.9	79.1	82.8	31.7	+0.3	31.6	78	+6	51
Khanpur	297	988.3	—1.0	985.1	998.8	994.9	102.0	—0.3	106	27	80.5	—0.8	74	10	83.6	100.3	78.8	83.3	31.8	+3.8	31.2	80	+11	48
N. W. F. P. (Upper)																								
Chakdara	2,197	925.2		924.7	998.8	996.7	94.6		109	29	73.9		69	30.31	79.3	89.6	73.2	78.4	25.5		28.6	77		62
Peshawar	1,175	959.6	—1.0	956.7	999.0	995.0	93.9	—4.3	100	1,28	77.0	—1.9	71	5	82.0	94.8	76.3	79.3	28.4	+1.5	28.5	77	+10	56
Landikotal ...	3,503	884.8		882.6	889.5	886.9	88.9		95	28	72.7		66	5	77.9	85.7	73.0	75.5	25.8		26.0	79		65
N. W. F. P. (Lower)																								
Bannu	1,264	955.5		952.8	997.4	994.2	98.4	—1.6	105	28	80.7	+0.4	72	2	86.3	94.4	77.6	78.0	28.3	+1.0	25.3	66	+1	47
Miranshah* ...	3,026																							
D. I. Khan ...	570	978.5	—1.2	976.8	997.5	995.5	98.8	—1.7	105	27	79.7	—1.5	64	3	85.8	96.5	80.1	83.6	32.4	+1.4	33.3	79	+6	58
BALUCHISTAN (North)																								
Fort Sandeman ...	4,614	852.5	—0.3	850.3	890.7	887.1	97.0	+0.1	102	27	72.7	—0.6	70	6	76.4	92.5	68.2	69.0	20.1	+0.2	14.7	63	+7	30
Hindubagh ...	5,950	817.5		811.5	791.4	789.0	94.8		101	30	67.3		62	6	82.2	90.8	61.4	60.5	10.8		7.2	41		25
Loralai	4,699	848.7		846.9	889.7	886.6	89.9		95	27	63.7		58	18	72.1	87.6	64.1	70.4	17.1		19.0	64		44
Sibi	441	983.2	—0.2	979.6	997.6	993.7	103.2	—1.7	109	18	84.8	—0.5	77	3	87.1	102.5	79.0	81.0	30.0	+2.9	26.3	68	+8	38
Quetta	5,490	825.3	—2.4	822.7	790.9	789.3	92.7		96	27,28	61.5		52	18	73.6	89.2	64.6	70.2	17.5	+2.6	18.2	62	+6	41
Quetta (Samungli) ...	5,253	834.8		832.4	793.2	792.4	93.9		98	29	61.1		53	15, 17	71.1	91.6	62.8	72.2	16.3		20.2	62		41
Chaman	4,311	861.2	—0.4	858.9	893.1	886.5	98.6	+0.3	103	28	72.2	—1.1	53	29	81.0	96.8	64.7	71.2	14.0	+2.5	16.0	37	+5	29
Nushki	3,412	891.2		888.9	893.0	890.6	104.6		109	28	81.9		78	17,18	84.1	102.3	66.7	71.0	15.2		13.2	32		20
Kalat	6,616	795.4	0.0	793.6	792.9	791.2	87.9	—1.9	94	27,28	60.0	+1.8	52	17	68.8	85.4	58.0	61.9	6.4	—2.3	8.3	39	—5	27
Dalbandin	2,785	906.7	—1.3	903.8	889.1	887.0	106.5	+0.4	110	29 5 days	72.0	+0.4	63	20	82.1	104.5	59.4	68.6	8.3	—3.7	9.5	22	—12	12
Nokkundi	2,229	924.0		921.2	996.5	990.6	108.1	+1.2	113	28,30	81.5	+0.4	75	27	86.1	106.0	66.0	77.2	13.7	—0.4	19.8	32	+1	28
BALUCHISTAN (South)																								
Las Bela	292	*		*	*	*	96.4	—2.8	101	11,13, 22	*				82.5	93.6	78.5	82.2	30.9	+0.5	32.2	80	—2	61
Ormara	15	1000.4		997.8	1001.0	998.3	88.8	+1.8	92	7	80.1	+1.6	78	4 days	82.4	86.0	80.1	81.3	33.3	+4.2	35.1	90	+4	82
Pasni	10	1000.7	—0.6	998.4	1001.0	998.7	88.8	+0.6	92	12	78.9	+2.6	75	21,22 23	81.9	86.1	78.2	80.6	31.7	+1.9	33.1	85	—2	78
Turbat	510	984.7		980.7	1002.0	997.3	103.5		108	12,16	81.0		78	25	84.4	101.1	80.0	85.4	32.4		35.6	81		50
Panjgur	3,177	896.1	—0.2	893.4	890.7	888.3	101.2	+0.3	106	29,30 31	73.8	+0.6	69	20,21	78.6	99.4	70.3	69.6	22.0	+1.4	12.0	65	+3	19
SIND (Upper)																								
Reti	280	990.5		986.5	999.8	995.8	103.0		108	17,18	80.0		77	21	82.7	102.3	77.5	81.9	30.5		27.4	78		40
Jacobabad	183	992.1	—0.4	988.6	998.2	994.7	101.0	—2.7	108	18	81.0	—1.2	74	4	84.4	100.1	77.7	82.5	29.4	—4.2	29.9	73	—5	46
Sukkur	221	990.1	—0.2	987.2	997.7	994.5	101.1	—0.1	105	5 days	79.5	—1.3	77	4 days	81.3	99.9	77.1	83.7	29.9	+1.1	32.5	82	+8	49
Pad Idan	153	992.6		989.8	997.9	994.8	101.7		108	18	78.5		74	8	82.6	100.3	78.4	84.1	32.0		32.5	83		50

*Data rejected.

0300 HRS. G. M. T. AND 1200 HRS. G. M. T.—AUGUST, 1950.

Cloud Amount (eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction Number of Winds from :—																		STATION
											0300 hrs. G.M.T.									1200 hrs. G.M.T.									
Mean 0300hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																													SOUTH PUNJAB
2.1	+0.2	2.2	2.22	—0.68	0.77	6	5	+1.3	1.7	—2.6	0	0	0	7	6	10	1	0	7	0	0	0	1	0	12	1	4	13	Montgomery.
2.6	—	1.9	1.84		1.79	3	1		5.8		1	0	1	4	18	7	0	0	0	1	1	1	3	4	17	2	1	1	Multan P.B.O.
2.2	—	2.6	4.67		3.47	10	3		5.6		1	0	1	2	9	17	1	0	0	1	2	3	3	4	16	1	1	0	Fort Abbas.
2.0	—0.2	1.3	0.80	—0.53	0.80	9	1	—1.3	4.1	+0.3	0	0	1	1	13	12	0	0	4	0	0	2	0	8	12	2	0	7	Bahawalpur.
2.0	—0.2	1.9	0.90	—1.03	0.41	10	2	—0.4	6.3	—0.1	2	0	0	0	9	20	0	0	0	1	0	1	2	9	14	3	1	0	Khanpur.
																													N. W. F. P. (Upper)
4.3		3.4	1.91		0.51	12	6		3.7		0	0	1	4	1	2	1	2	20	1	6	4	4	3	5	0	4	4	Chakdara.
3.7	+0.5	3.7	1.38	—0.65	0.51	2,12	3	+0.5	3.4	+1.7	11	5	0	1	0	0	0	4	10	8	14	2	0	1	2	0	1	3	Peshawar.
3.3		3.2	3.35		2.08	11	3		4.6		2	16	2	4	1	0	0	0	6	0	2	3	25	0	0	0	0	1	Landikotal.
																													N. W. F. P. (Lower)
3.4	+1.3	4.7	3.34	+1.45	1.51	6	6	+2.9	3.2		1	2	7	6	0	0	0	0	15	0	1	1	24	2	1	0	1	1	Bannu.
																													Miran Shah.*
1.5	—0.3	2.[illegible]	1.11	—0.79	0.79	3	2	—0.3	2.2	+0.7	0	17	5	2	1	0	0	0	6	0	2	3	7	5	3	0	0	11	D. I. Khan.
																													BALUCHISTAN (North)
1.7	+0.2	3.9	2.60	+0.70	1.40	10	3	—0.8	2.8	+0.8	0	2	0	0	0	0	0	0	29	0	4	0	4	0	2	0	1	20	Fort Sandeman.
(a) 1.2		(a) 1.8	0.64		0.36	7	3				1	2	3	3	1	13	7	1	0	1	0	4	0	2	12	9	2	0	Hindubagh.
1.4		1.4	0.34	—0.88	0.34	31	1	—0.9	4.0		0	0	2	0	0	0	1	0	28	1	0	1	12	3	0	0	0	14	Loralai.
1.6	+0.2	1.1	0.52	—0.06	0.45	3	1	—0.1	4.1	—0.9	0	0	7	14	4	2	2	1	1	0	0	3	4	6	11	6	0	1	Sibi.
1.7	+0.7	1.6	0.05	—	0.05	1	0		3.6	+1.6	4	3	1	3	4	7	1	3	5	6	2	0	0	3	5	7	8	0	Quetta.
0.8		1.6	0.06	—	0.04	1	0		5.3		2	0	8	7	0	0	1	3	10	1	1	1	2	2	4	7	12	1	Quetta (Samungli).
(d) 1.3	+0.7	(d) 3.1	0.00	—0.04	0.00	—	0	—0.1	5.6	+1.1	1	0	(c) 1	4	5	6	1	1	9	0	0	0	1	2	9	(c) 11	4	1	Chaman.
1.2		0.8	0.00		0.00	—	0		6.9		0	4	7	8	4	0	0	4	4	0	0	1	0	0	5	9	15	1	Nushki.
1.1	—0.3	1.3	0.90	+05.7	0.90	1	1	+0.1	4.2	+0.2	0	0	0	26	1	0	0	0	4	0	1	0	1	0	0	0	28	1	Kalat.
0.3	—0.6	0.3	0.00	—0.13	0.00	—	0	—0.2	4.2	—0.1	0	1	0	0	2	2	5	1	20	0	2	2	1	1	11	10	0	4	Dalbandin.
0.0	—0.8	0.0	0.00	0.00	0.00	—	0	0.0	9.7	—2.3	2	3	1	2	0	1	0	22	0	1	1	0	2	0	1	0	26	0	Nokkundi
																													BALUCHISTAN (South)
2.7	—2.1	2.5	0.18	—0.88	0.18	1	1	—1.0	3.0	+0.1	0	0	0	1	0	0	0	0	30	0	0	13	11	3	3	0	0	1	Las Bela.
4.9	—1.3	2.2	0.02	—0.09	0.02	31	0	—0.3	8.8	+0.2	0	0	1	0	0	17	12	0	1	0	0	0	0	7	15	9	0	0	Ormara.
(a) 5.5	+0.1	2.7	0.00	—0.17	0.00	—	0	—0.3	(d) 7.4	+1.7	0	(b) 0	5	8	1	8	4	1	2	0	0	0	4	2	24	1	0	0	Pasni.
0.3	—	0.0	0.00	—	0.00	—	0	—	7.7	—	0	0	0	0	4	15	4	1	7	0	0	0	1	13	13	4	0	0	Turbat
2.1	+0.7	2.7	0.00	—0.34	0.00		0	—0.7	5.2	+1.2	5	2	3	0	2	9	5	1	4	0	2	3	0	0	0	14	2	10	Panjgur.
																													SIND (Upper)
1.2		1.2	0.00		0.00	—	0	—	9.1		0	1	0	0	24	6	0	0	0	1	0	1	5	18	4	1	0	1	Reti.
2.1	+0.7	1.6	0.58	—0.30	0.58	3	1	—0.3	7.9	+2.1	0	0	6	21	2	0	0	0	2	0	0	1	24	3	2	0	1	0	Jacobabad.
2.0	+0.5	1.5	0.80	—1.12	0.00	—	0	—1.0	3.1	—1.3	0	1	1	6	8	12	2	0	1	6	3	0	3	5	4	2	1	7	Sukkur.
2.5		2.9	2.25		1.27	7	2	—	7.8		0	0	2	21	8	0	0	0	0	1	1	0	7	17	0	1	2	2	Pad Idan.

*Data omitted. (a) Mean of 30 days. (b) Mean of 29 days. (c) Frequencies for 28 days. (d) Mean of 27 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATIONS	Height of bar. cistern above M.S.L. in feet	Pressure at station level in millibars: Mean 0300 hrs. G. M. T.	Pressure at station level in millibars: Departure from normal	Pressure at station level in millibars: Mean 1200 hrs. G. M. T.	Pressure at M. S. L.: Mean 0300 hrs. G. M. T.	Pressure at M. S. L.: Mean 1200 hrs. G. M. T.	Maximum temperature °F: Mean	Maximum temperature °F: Departure from normal	Maximum temperature °F: Highest	Maximum temperature °F: Date	Minimum temperature °F: Mean	Minimum temperature °F: Departure from normal	Minimum temperature °F: Lowest	Minimum temperature °F: Date	Dry bulb temperature °F: Mean 0300 hrs. G. M. T.	Dry bulb temperature °F: Mean 1200 hrs. G. M. T.	Wet bulb temperature °F: Mean 0300 hrs. G. M. T.	Wet bulb temperature °F: Mean 1200 hrs. G. M. T.	Vapour pressure millibars: Mean 0300 hrs. G. M. T.	Vapour pressure millibars: Departure from normal	Vapour pressure millibars: Mean 1200 hrs. G. M. T.	Relative humidity %: Mean 0300 hrs. G. M. T.	Relative humidity %: Departure from normal	Relative humidity %: Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SIND (Lower)																								
Umarkot	55	997.7	—	995.0	999.6	996.8	92.3	—	96	4days	78.6	—	76	19	82.5	92.4	—	—	—	—	—	—	—	—
Hyderabad ...	96	996.0	—0.7	994.0	999.3	997.2	96.5	+0.7	103	27	79.5	+0.3	77	7	85.9	92.1	74.3	79.3	23.9	—3.4	28.7	75	+1	57
Karachi (Drigh Road)	73	998.4		996.4	1000.9	998.9	87.8		91	7,9	79.5		77	21,29	81.4	84.4	76.6	77.6	28.4	—	28.5	79	—	72
Karachi (Manora) ...	13	1000.4	—0.6	998.6	1000.9	999.0	86.3	+0.5	89	7,29	79.9	+1.4	77	28,29,30	81.0	84.2	77.2	79.1	29.9	—0.4	31.6	84	—4	80
Badin ...	31	998.2	—1.7	997.4	999.8	998.4	91.4	—0.8	96	6,7	79.4	+0.1	75	19	81.3	88.2	76.0	78.8	27.9	—1.2	29.4	77	—3	65
HILL STATIONS (excluding Kashmir and Baluchistan)																								
Murree	7,113	780.5	—1.1	779.6	791.9	790.9	69.9	—3.3	75	7	58.8	+1.4	55	23,30,31	63.1	67.5	61.0	64.7	17.4	—0.5	19.5	88	+1	86
Cherat	4,272	862.6	—1.0	861.3	890.8	889.2	81.9	—3.5	90	27,28	66.9	—3.0	61	2,6	71.3	79.4	69.4	72.7	23.7	+2.0	24.8	89	+9	74
Drosh	4,806	846.3	—2.3	841.9	889.9	884.1	94.1	—1.1	101	28	73.4	+0.8	68	16	77.5	89.1	67.1	67.9	18.4	+0.1	14.8	58	—4	32
Parachinar	5,673	820.6	—1.3	819.5	791.4	790.6	83.4	—1.3	88	28	64.6	—0.2	62	4 days	71.7	76.2	65.3	71.4	19.0	+1.1	24.4	72	+5	80
Wana	4,456	859.9		858.0	893.4	890.8	92.2	+0.8	97	28	69.3	—0.8	66	21,31	76.3	85.6	68.5	71.3	20.6	+0.8	20.5	66	—1	48
AFGHANISTAN																								
Jalalabad	1,950	924.0		920.7	987.2	982.2	98.6	—	104	28	79.4		73	13	83.1	97.1	†	†	†	†	†	†	†	†
Kabul	5,955	814.7		812.1	794.5	793.0	93.0	+2.0	97	1,28	60.3	+2.0	53	20	67.3	90.4	55.3	63.4	10.6	—0.1	10.0	43	+2	23
Kandhar	3,462	888.1		885.7	891.4	888.9	98.8	—	103	27	61. 7		56	21	71.2	94.6	65.8	82.3	19.5	—	32.7	74		59
IRAN																								
Jask	13	997.9		996.5	998.2	996.9	93.8	—0.7	98	13,16	83.9	+0.1	80	7,17	85.4	93.0	81.4	84.6	34.3	—	36.6	84		71
ARABIA																								
Muscat	20	998.6		996.8	999.1	997.2	90.5	—0.2	97	24,25, 26	84.6	+1.1	80	1	86.3	88.4	82.4	82.9	35.5	—	35.4	83		79
Kuwait *	16	999.3		997.5	999.8	998.0	103.0		113	28	85.2	—	80	25,27	88.0	97.5	72.8	88.8	20.9	—	28.8	43		43

* Observations recorded at 0500 hours G M T instead of 0300 hours G. M. T. †Data rejected.

OPPK—H4Meteorological—15-1-55—200

0300 HRS. G. M. T. AND 1200 HRS. G. M. T.0300—AUGUST, 1950.

Cloud Amount (eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction Number of Winds from :—																		STATION
											0300 hrs. G.M.T.									1200 hrs. G.M.T.									
Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																													SIND (Lower)
5.5		3.2	0.09		0.09	7	0		9.3		0	0	0	0	16	15	0	0	0	0	0	0	0	11	19	0	1	0	Umerkot.
2.6	—0.9	2.1	0.36	—1.67	0.34	7	1	—1.2	9.2	+0.2	0	0	0	0	0	29	1	0	1	0	0	0	1	0	29	0	1	0	Hyderabad.
7.9		6.0	0.10		0.07	7	0		13.0		0	0	0	0	0	13	18	0	0	0	0	0	0	1	18	12	0	0	Karachi (Drigh Road).
7.5	+1.2	5.3	0.02	—1.54	0.02	7	0	—1.6	12.6	+2.2	0	0	0	0	0	13	18	0	0	0	0	0	0	0	15	16	0	0	Karachi (Masora).
5.6	+0.4	4.8	0.21	—2.11	0.21	7	1	—1.3	4.1		0	0	0	0	0	31	0	0	0	0	0	0	0	0	31	0	0	0	Badin.
																													HILL STATIONS (excluding Kashmir and Baluchistan).
6.4	+1.9	6.5	20.52	+6.71	2.56	22	21	+6.7	3.7	+0.5	0	0	4	3	1	0	8	4	11	0	0	4	1	2	1	11	3	9	Murree.
4.1	+0.7	4.1	13.34	+8.40	4.14	11	9	+2.6	6.1	+1.6	5	1	0	6	13	3	0	0	3	0	0	0	10	20	0	0	1	0	Cherat.
2.7	+0.9	3.4	0.76	+0.11	0.59	16	2	+0.1	5.9	+1.7	0	0	0	0	0	2	1	0	28	0	0	1	0	0	14	15	0	1	Drosh.
2.4	—0.1	6.4	4.89	+1.19	0.80	10	11	+4.6	3.0	+0.9	2	4	3	5	0	0	0	1	16	1	2	5	17	3	1	1	1	0	Parachinar.
1.1	—0.6	2.9	0.39	—0.55	0.16	9	1	—2.2	2.9		0	0	0	1	2	2	0	0	26	0	6	5	15	2	2	1	0	0	Wana.
																													AFGHANISTAN
2.9		3.0	0.16		0.16	13	1		3.7		0	0	2	8	0	2	3	0	16	0	7	16	7	0	0	0	0	1	Jalalabad.
0.4	—0.3	1.8	0.00	—0.09	0.00		0	—0.4	2.7	+1.1	2	2	0	0	1	2	9	8	7	12	12	1	2	1	0	1	1	1	Kabul.
0.5		0.8	0.00		0.00		0		0.3		0	0	0	0	0	1	0	0	30	0	0	0	0	0	7	0	1	23	Kandahar.
																													IRAN
2.5	—0.1	0.7	0.00	—0.01	0.00		0	0.0	(a) 8.9		1	0	23	3	1	0	1	1	1	0	0	0	5	18	4	4	0	0	Jask.
																													ARABIA
2.2	—0.3	2.0	0.00	—0.02	0.00		0	—0.1	1.9	—1.1	0	5	3	2	2	0	0	4	15	0	4	0	0	0	0	0	9	18	Muscat.
0.0		0.1	0.00		0.00		0		5.5		1	0	1	0	0	4	13	11	1	2	2	3	5	0	0	6	12	1	Kuwait*

(a) mean of 30 days

* Record at 0500 hrs. G.M.T. instead of 0300 hrs. G.M.T.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS.—AUGUST 1950.

STATION	Maximum temperature °F				Minimum temperature °F				Mean dry bulb temperature 0300 hrs. G.M.T. °F	Mean wet bulb temperature 0300 hrs. G.M.T. °F	Vapour Pressure millibars		Relative humidity %		Mean cloud Amount 0300 hrs. G.M.T.	Precipitation						Wind	
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date			Mean 0300 hrs. G.M.T.	Departure from normal	Mean 0300 hrs. G.M.T.	Departure from normal		Total of the Month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Resultant direction 0300 hrs. G.M.T.	Velocity in knots
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
EAST PAKISTAN (*North*)																							
Pabna	87.7	—1.8	92	28	*				83.3	80.0	32.8	—0.5	85	0		11.32	+0.86	3.64	2	17	+1.2		
KASHMIR																							
Jammu*																							
Kargil*																							

*Data not available.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 5TH CLASS STATIONS.—AUGUST 1950.

DIVISION	STATION	PRECIPITATION					
		Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal
1	2	3	4	5	6	7	8
EAST PAKISTAN (*North*)	Rajshahi	12.00	—2.29	2.50	3	14	—0.8
	Rangpur	24.02	+10.27	3.47	22	21	+7.0
KASHMIR	Sonamarg*						
	Gurez*						
BALUCHISTAN (*North*)	Harnai	5.11	+2.45	2.88	3	5	+5.7

*Data not available.

GPPK—H4 Met. Deptt.—22-1-55—200

Registered No. S.-1452.

PAKISTAN WEATHER REVIEW, 1950

Monthly Weather Report

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WEATHER BUREAU

September

Published by the authority of the Government of Pakistan

Chief features:— (1) Two depressions from the Bay of Bengal.

(2) A cyclonic storm from the Bay which travelled from the Orissa coast to west Rajputana and thence to the Punjab-Kumaon hills.

(3) Western disturbances that affected the extreme north of West Pakistan during the last three weeks

West Pakistan.—A low which appeared over north Rajputana and the adjoining north Punjab on the 1st and merged into the seasonal low on the 2nd caused fairly widespread thundershowers in the north Punjab and scattered in the south Punjab and the upper North-West Frontier Province. Notable amounts of rainfall were:—Montgomery1" on the 2nd; Sialkot2" on the 3rd and 1½" on the 4th and Lahore 1" on the 4th. News from Lahore stated that more than 20 villages stretching over 50 square miles were swept away and devastated in the Qasur sub-division following sudden burst into floods of the river Sutlej. Standing crops were reported to be completely washed away. Major portion of Lahore was threatened with floods and five breaches had occurred along the eight mile long bund of the river Ravi which was in spate.

A shallow depression moving westwards through the Indian region, extended as a trough of low over east Rajputana and Sind on the 3rd and caused a few showers in Sind.

A depression which appeared at the northwest angle of the head Bay on the 12th and intensified there into a cyclonic storm on the 13th, crossed the Orissa coast near Balasore on the night of the same day and travelling initially westwards as a deep depression, it adopted a westnorthwesterly course and recurved northeastwards near Jodhpur on the afternoon of the 18th. It then weakened slightly, moved further northeastwards and finally broke up over the Punjab-Kumaon hills. In its association monsoon was active in the Punjab and Sind during the period 14th to17th and became vigorous in the Punjab from the 18th to 20th, when locally heavy downpours were recorded. The chief amounts of rainfall were :—15th Rawalpindi 2" and Lahore 1½" 17th, Lahore 1", 18th, Sialkot 4", Lahore 1½"; 19th, Sialkot and Montgomery 3" each and Lahore1½"; 20th, Lahore and Jhelum 4" each. According to newspaper reports all mail and road communications were disrupted between Multan and Khanewal and Lahore was flooded with a continuous downpour on the 17th and 18th. The disastrous floods in the Punjab rivers caused heavy damage including loss of life, property and cattle. The breaking of the above-mentioned depression over the Punjab-Kumaon hills marked the withdrawal of the monsoon from West Pakistan.

Western disturbances moving eastwards farther north of West Pakistan and their secondaries caused scattered thunderstorms/showers mainly over the north Punjab and the upper North-West Frontier Province during the last three weeks of the month and in upper Sind on the 24th.

Day temperatures were markedly below normal in the Punjab and the North-West Frontier Province on the 4th and 5th, in the North-West Frontier Province on the 13th and in West Pakistan from the 18th to 20th and on the last two days of the month.

The mean actual rainfall during the month was in large excess in the Punjab, in moderate defect in the lower North-West Frontier Province and in large defect in the upper North-West frontier province, north Baluchistan and lower Sind. No rain fell elsewhere. Averaged over the plains of West Pakistan it was in large excess.

The mean maximum temperatures were below normal in the Punjab, the North-West Frontier Province and north Baluchistan and normal elsewhere over the region.

The mean minimum temperatures were normal over the region except the lower North-West Frontier Province where they were below normal. The mean relative humidity was in excess in the Punjab and normal elsewhere. Skies were more clouded than usual in the Punjab, the North-West Frontier Province and upper Sind and less clouded than usual in lower Sind and Baluchistan.

East Pakistan:—The weather over the region was mainly controlled by the depression which formed over the north-west angle of the head Bay of Bengal on the 12th and crossing coast near Balasore as a cylonic storm on the night of the 13th moved away westwards into the Indian region. Associated with its formation and movement monsoon remained generally active over East Pakistan during the first twenty days and withdrew thereafter.

Low pressure waves moving eastwards across East Pakistan caused thunderstorms/showers during the remaining days.

A well-marked trough of low which appeared over the north-west Bay of Bengal caused temporary incursion of moist air into East Pakistan where nearly general rain occurred on the last day.

The chief amounts of rainfall recorded during the month were :—Sirajganj 3" on the 1st ; Rangpur 4" and Dinajpur 3" on the 8th; Chittagong 5", Cox's Bazar 2" on the 9th; Cox's Bazar 7" on the 11th; Satkhira 4" and Barisal 2" on the 12th; Comilla 3" on the 13th; Satkhira 2" on the 14th and 16th; Faridpur 2" on the 15th; Cox's Bazar 2" on the 20th; Rangpur 2" on the 23rd and Faridpur 2" on the 30th.

The mean actual rainfall during the month was in moderate defect over each of the sub-divisions and on the region as a whole. The mean maximum and minimum temperatures, relative humidity and cloudiness were normal over all the sub-divisions.

Table I contains the Divisional and Sub-divisional means of rainfall, temperature, humidity and cloud for the 5 chief divisions and 12 sub-divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

TABLE I.—DIVISIONAL AND SUB-DIVISIONAL MEANS, SEPTEMBER 1950

	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour Pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
DIVISION	"	"	"		°	°	mb	%	
1. East Pakistan	6·55	11·02	—4.47	—41	+1·3	+0·9	+0·1	—1	—0·3
Mean of East Pakistan	6·55	11·02	—4.47	—41	+1·3	+0·9	+0·1	—1	—0·3
2. Punjab	5·47	1·80	+3·67	+204	—4·8	—1·0	+1·2	+11	+1·8
3. N.-W. F. P.	0·35	0·70	—0·35	—50	—3·2	—2·6	+0·4	+5	+0·5
4. Baluchistan	0·01	0·21	—0·20	—95	—1·6	—1.0	—1·1	—2	—0·6
5. Sind	0·10	0·45	—0·35	—78	+0·6	+1·7	+0·9	+1	—0·1
Mean of West Pakistan excluding Baluchistan ...	2·78	1·16	+1·62	+139	—2·7	—0·3	+1·0	+7	+0·9
SUB-DIVISION									
1. East Pakistan (North)	5·62	11·04	—5·42	—49	+1·7	+0·4	0·0	—3	—0·3
2. East Pakistan (East)	7·45	12·07	—4·62	—38	+1·5	+1·3	+0·3	—1	—0·3
3. East Pakistan (Deltaic)	6·33	8·55	—2·22	—26	+0·4	0·0	—0·3	0	—0·1
4. Kashmir*									
5. North Punjab	8·24	2·75	+5·49	+200	—5·9	—1·5	+0·5	+13	+1·9
6. South Punjab	1·77	0·53	+1·24	+234	—3·5	—0·3	+2·0	+8	+1·6
7. N.-W. F. P. (Upper)	0·39	0·81	—0·42	—52	—3·1	—0·8	+0·9	+4	+0·3
8. N.-W. F. P. (Lower)	0·33	0·66	—0·33	—50	—3·2	—3·2	+0·2	+5	+0·6
9. Baluchistan (North)	0·01	0·22	—0·21	—95	—2·4	—1·8	—0·8	—1	—0·2
10. Baluchistan (South)	0·00	0·20	—0·20	—100	0·0	+1·5	—1·6	—3	—1·6
11. Sind (Upper)	0·00	0·09	—0·09	—100	—1·3	+1·5	—1·3	—2	+0·9
12. Sind (Lower)	0·16	0·68	—0·52	—76	+1·9	+1·9	+2·4	+3	—0·8

*Data incomplete.

76

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TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS

STATIONS	Height of bar. cistern above M.S.L. in feet	Pressure at station level in millibars			Pressure at M. S. L.		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure, millibars			Relative humidity %		
		Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
EAST PAKISTAN (North)																								
Sirajganj	48	1002·7	...	999·7	1004·3	1001·3	88·9	...	93	21	79·6	...	76	1,2	83·3	85·5	79·9	80·5	32·8	...	32·7	86	...	80
Bogra	63	1003·8	—0·8	1000·3	1005·9	1002·4	90·8	+1·7	94	4 days	79·2	+1·3	75	28	84·5	86·3	80·0	80·1	33·5	+0·6	32·3	81	—3	76
Dinajpur	123	1002·4	+0·2	998·7	1006·6	1003·0	91·4	+2·7	95	5 days	77·4	—0·5	72	8,28	83·6	85·6	79·0	80·0	32·4	+0·1	33·1	81	—4	78
EAST PAKISTAN (East)																								
Cox's Bazar ...	38	1005·7	—0·5	1002·8	1007·0	1004·1	88·3	+1·9	91	4 days	77·0	+1·1	75	5 days	83·5	83·4	79·1	78·9	31·3	—0·4	31·3	82	—2	81
Chittagong ...	87	1003·8	—0·9	1000.5	1006·8	1003·4	88·3	+1·2	93	9	77·6	+1·2	74	9	83·8	83·7	78·6	78·8	31·6	+0·3	31·6	79	—5	80
Comilla ...	27	1005·9	—0·3	1001.8	1006·9	1002·8	87·9	—0·7	92	9	78·8	+1·9	76	4 days	84·4	85·9	77·7	80·7	29·3	—2·9	33·9	82	+2	80
Narayanganj ...	26	1004·9	—1·1	1001·1	1005·8	1002·0	91·5	+2·8	94	7 days	79·9	+1·1	76	13	85.9	86·2	80·3	80·1	33·1	+0·6	32·3	77	—5	76
Brahmanbaria ...	32	1005·7	...	1001·9	1006·8	1003·0	91·2	+1·0	94	9,30	79·4	+2·9	76	27,30	85·8	85·4	80·3	80·4	33·1	+2·0	32·7	79	0	80
Srimangal ...	69	1004·6	—0·9	1000·9	1007·0	1003·3	90·2	—0·1	94	9,10	76·2	+0·9	73	17	82·7	82·1	79·5	79·7	33·6	+2·1	33·3	87	+2	90
Mymensingh ...	62	1004·1	—1·1	1000·9	1006·3	1003·1	92·1	+4·2	96	14	78·1	+0·3	75	1	83·0	85·3	79·5	80·3	32·8	+0·3	32·7	85	0	80
EAST PAKISTAN (Deltaic)																								
Faridpur	46	1004·7	—0·1	1001·1	1006·3	1002·7	86·7	—1·1	90	4days	79·1	+0·6	75	15,16	84·1	85·3	80·0	80·2	33·2	—0·1	32·7	83	+2	79
Barisal	11	1005·9	—0·4	1002·4	1006·3	1002·8	90·1	+2·0	93	7 days	79·7	+1·5	76	14,15	84·5	85·3	80·1	79·7	33·5	+0·6	31·9	83	0	77
Khulna	16	1006·4	+0·3	1004·2	1006·9	1004·7	89·6	+0·6	94	27	79·0	+0·5	75	14	84·9	84·2	79·6	79·4	31·9	—0·7	31·6	79	—2	81
Jessore	26	1005·0	—0·6	1001·3	1005·9	1002·2	91·0	+1·7	98	11	76·5	—1·0	71	28	84·3	85·6	80·4	80·7	33·2	—0·1	33·9	84	0	81
Satkhira	16	1004·9	—0·9	1002·3	1005·4	1002·8	90·3	+0·7	95	11	78·0	—0·3	74	15	84·2	85·3	80·2	82·2	33·2	—0·5	36·0	85	+2	86
KASHMIR																								
Srinagar *	5,205																							
Gulmarg *	8,709																							
Dras *	10,059																							
Leh *	11,529																							
Skardu *	7,505																							
Gilgit *	4,890																							
Misgar	10,190	701·6	...	698·8	705·4	702·4	†				†				43·3	60·4	37·1	44·4	5·0	...	5·0	59	...	31
NORTH PUNJAB																								
Lahore	702	981·0	+0·1	978·9	1005·1	1002·6	88·6	—8·7	100	2	73·1	0·0	65	20	78·7	85·1	74·6	76·2	27·4	+2·2	26·8	83	+17	67
Sialkot	830	977·1	+0·3	974·8	1005·6	1002·5	88·5	—6·1	99	9	71·6	—2·2	62	20	76·3	84·2	72·0	75·7	24·9	—0·6	26·5	81	+6	68
Jhelum	765	979·3	...	977·0	1005·5	1002·5	90·3	...	98	11,14	70·3	...	62	25,30	76·3	86·7	72·0	77·0	24·9	...	27·3	81	...	64
Rawalpindi	1,674	948·6	—0·5	946·7	1005·3	1003·2	90·1	—3·3	96	7	67·2	—2·1	59	25,26,28	73·9	84·4	68·3	72·9	21·2	—0·6	23·0	75	+17	54
Khushab	616	983·8	—0·2	981·0	1004·8	1001·6	96·1	—2·5	103	1	73·9	—2·2	66	28	79·4	92·7	72·2	73·9	23·9	+0·1	20·1	63	—1	39
Lyallpur	605	984·0	+0·3	981·3	1004·8	1001·7	92·8	—5·3	103	12	73·5	—1·7	66	30	77·6	88·4	72·3	74·3	24·8	+1·2	22·6	77	+13	52
SOUTH PUNJAB																								
Montgomery	558	985·6	+0·2	983·0	1004·7	1001·6	94·1	—5·2	104	13	74·0	—1·9	67	20,27	79·6	89·8	73·3	75·2	25·2	—0·7	23·3	75	+5	52
Multan P.B.O. ...	405	990·4	...	987·5	1004·3	1000·9	97·8	...	105	8	76·0	...	67	30	80·9	95·1	73·0	74·5	24·1	...	19·8	66	...	35
Fort Abbas	475	987·5	...	985·1	1003·8	1000·8	97·8	...	106	9	76·2	...	69	28,30	82·0	90·9	73·8	74·9	24·8	...	22·3	69	...	48
Bahawalpur	384	990·9	+0·2	988·3	1004·1	1000·9	96·9	—3·5	104	12	76·4	+0·7	67	28	81·0	94·1	76·4	81·7	29·0	+1·8	31·3	81	+14	58
Khanpur	297	993·9	0·0	990·7	1003·9	1000·6	100·4	—1·8	107	8	77·3	+0·3	67	30	82·1	98·1	76·8	80·2	29·0	+4·8	26·8	78	+13	45

*Data not available.

† Data rejected.

G.M.T. AND 1200 HRS. G.M.T., SEPTEMBER 1950

Cloud Amount (eighths of sky)			Precipitation						Wind Velocity Knots		Wind Direction—Number of Winds from :—																			
											0300 hrs. G.M.T.									1200 hrs. G.M.T.										
Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0·10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	STATIONS
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
			"	"	"																								EAST PAKISTAN (North)
6·6	...	5·8	7·93	—1·76	3·21	1	11	—0·8	2·5	...	1	0	2	5	0	0	0	0	22	0	0	0	4	2	0	0	0	24	Sirajganj.
5·4	+0·4	4·7	4·55	—6·74	1·64	1	8	—4·6	2·2	+0·8	0	0	11	2	4	6	3	2	2	0	1	7	3	4	3	3	0	9	Bogra.
4·2	—0·9	2·6	5·00	—8·05	3·35	8	6	—6·5	2·1	+0·3	0	0	5	3	0	0	0	1	21	0	2	1	1	0	0	0	0	26	Dinajpur.
																													EAST PAKISTAN (East)
4·2	—1·0	4·6	16·20	+0·95	7·27	11	11	—3·4	1·4	—1·2	0	0	0	5	4	0	0	0	21	0	0	0	1	9	0	1	1	18	Cox's Bazar.
5·7	+0·2	6·3	9·33	—3·31	5·18	9	10	—3·0	3·6	—1·1	1	2	9	11	2	1	0	1	3	1	0	3	4	4	9	6	2	1	Chittagong.
5·7	+0·8	5·9	8·84	—2·51	2·95	13	10	—3·7	3·2	0·0	1	0	3	17	6	1	0	1	1	2	0	3	6	9	3	1	5	1	Comilla.
5·0	—1·1	4·7	3·93	—5·83	0·82	21	11	—1·1	(c) 2·3	—0·6	0	0	2	7	4	4	5	6	2	0	0	0	3	12	3	3	1	8	Narayangang.
4·7	...	3·8	5·20	—4·40	1·52	13	8	—5·1	2·6	...	1	0	2	8	7	4	0	1	7	0	0	1	4	0	3	0	1	21	Brahmanbaria.
5·9	+1·0	6·0	5·83	—5·94	1·13	27	11	—4·9	2·2	—0·3	1	0	4	4	12	1	2	1	5	4	1	4	2	7	0	4	0	8	Srimangal.
4·5	—1·5	6·1	2·80	—11·29	0·39	14	11	—3·7	1·9	+0·5	0	0	4	1	0	0	0	0	25	0	0	1	1	0	0	1	0	27	Mymensingh.
																													EAST PAKISTAN (Deltaic)
5·9	+0·9	5·8	6·14	—3·12	2·08	15	9	—3·0	4·0	+0·3	0	6	14	6	0	0	0	0	4	0	6	15	0	0	0	0	0	9	Faridpur.
6·4	+1·1	6·7	7·35	—2·73	2·21	12	8	—6·2	2·8	+1·0	1	1	4	5	7	4	3	2	3	1	1	1	6	9	4	0	1	7	Barisal.
4·7	—1·0	3·6	6·96	—0·96	1·57	15	8	—4·2	3·1	+0·5	1	2	6	7	6	4	2	0	2	0	2	3	9	4	3	1	0	8	Khulna.
4·9	—0·2	5·1	5·88	—2·60	1·25	15	10	—2·0	3·0	+1·1	2	2	2	4	8	4	2	1	5	0	0	6	4	13	1	2	0	4	Jessore.
6·0	+1·0	6·4	11·80	+3·12	3·63	12	11	—1·2	2·3	+0·8	0	1	1	9	6	4	2	4	3	0	0	1	7	5	3	0	1	13	Satkhira.
																													KASHMIR
																													Srinagar *
																													Gulmarg *
																													Dras *
																													Leh *
																													Skardu *
																													Gilgit *
3·5	...	4·5	1·21	...	0·45	14	4	...	3·8	...	1	0	2	0	1	0	7	1	18	0	1	5	12	1	3	8	0	0	Misgar.
																													NORTH PUNJAB
3·7	+2·3	2·9	10·81	+8·61	3·63	20	8	+5·5	2·7	+1.4	1	5	4	5	0	0	1	2	12	2	4	4	2	0	0	0	3	15	Lahore.
4·6	+3·0	4·2	15·86	+12·4 3	3·93	19	10	+6·2	2·4	+1·2	0	8	0	7	0	0	2	6	7	1	6	1	4	1	2	0	5	10	Sialkot.
3·0	...	2·9	6·74	...	4·40	20	6	...	1·7	...	0	1	2	2	1	0	0	5	19	0	1	2	3	1	1	0	1	21	Jhelum.
2·4	+0·8	2·4	5·41	+1·52	2·31	15	7	+2·4	2·7	+1·4	0	0	0	0	2	1	0	1	26	0	0	1	2	5	0	1	0	21	Rawalpindi.
1·4	+0·3	1·6	0·00	—1·38	0·00	...	0	—2·0	4·5	+0·8	0	7	8	7	1	2	1	1	3	0	2	9	11	4	1	1	2	0	Khushab.
3·0	+1·5	3·0	0·87	—0·62	0·40	20	2	+0·3	2·3	+0·3	0	1	3	2	4	2	0	0	18	3	4	6	3	1	0	1	2	10	Lyallpur.
																													SOUTH PUNJAB
2·8	+1·9	2·7	5·14	+3·93	3·28	19	4	+2·4	1·6	—1·8	0	1	0	9	6	7	0	1	6	0	4	3	4	1	4	0	2	12	Montgomery.
2·5	...	2·4	0·98	...	0·98	1	1	...	4·6	...	5	5	2	5	3	1	1	1	7	8	4	2	0	4	4	4	3	1	Multan P. B. O.
2·2	...	3·4	1·68	...	0·80	14	4	...	6·4	...	3	5	5	1	6	8	2	0	0	4	11	2	5	1	4	1	2	0	Fort Abbas.
2·2	+1·8	1·5	0·00	—0·13	0·00	...	0·0	—2	2·3	—0·8	1	4	1	0	3	4	0	0	17	1	4	2	0	0	3	2	2	16	Bahawalpur.
1·6	+1·2	3·6	0·12	—0·07	0·12	15	1	+0·8	(b) 4·8	+0·9	5	4	4	0	6	9	0	1	1	2	4	2	2	5	5	4	5	1	Khanpur.

(c) Mean of 26 days. (b) Mean of days. 29

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS	Height of bar. cistern above M.S.L. in feet.	Pressure at station level in millibars: Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Pressure at M.S.L.: Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Maximum temperature °F: Mean	Departure from normal	Highest	Date	Minimum temperature °F: Mean	Departure from normal	Lowest	Date	Dry bulb temperature °F: Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Wet bulb temperature °F: Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Vapour pressure millibars: Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Relative humidity %: Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
N.-W. F. P. (Upper)																								
Chakdara	2,197	931·0	...	929·1	1006·1	1001·9	90·1	...	98	6	66·2	...	56	30	72·1	86·3	65·3	72·3	18·6	...	21·4	67	...	50
Peshawar	1,175	965·6	—0·0	962·6	1005·6	1001·6	91·9	—3·1	96	8	71·0	—0·8	62	24, 26	77·5	88·1	69·4	71·8	21·0	+0·9	19·3	64	+4	42
Landikotal	3,503	890·3	...	887·9	894·9	892·4	85·9	...	92	17	64·2	...	53	24	73·6	81·0	64·0	65·0	16·5	...	14·6	58	...	42
N.-W. F. P. (Lower)																								
Bannu	1,263	961·7	...	958·7	1004·4	1000·5	94·3	—3·1	101	12	73·8	+0·1	62	30	79·3	91·1	70·1	72·0	21·0	—0·5	18·2	62	+4	37
Miranshah	3,026	*	...	*	*	*	88·4	—3·3	95	12	64·0	—7·1	54	30	73·2	86·2	64·5	65·2	17·2	+2·1	12·7	62	+10	29
D. I. Khan	570	984·9	+0·2	992·2	1004·2	1001·1	96·7	—2·7	103	12	73·0	—2·6	63	28, 30	78·6	94·6	72·4	76·0	24·3	—1·0	22·2	73	+4	42
BALUCHISTAN (North)																								
Fort Sandeman ...	4,614	856·6	0·0	854·1	895·5	891·4	90·7	—2·0	97	6	64·3	—1·9	54	30	68·7	87·9	57·7	58·5	11·5	—1·6	3·5	51	0	12
Hindubagh ...	5,950	818·6	...	815·9	796·1	793·5	86·6	...	93	5,6	54·5	...	40	26	67·1	82·5	51·4	57·7	7·3	...	7·4	33	...	19
Loralai (R) ...	4,699																							
Sibi	441	988·8	+0·3	984·7	1004·1	999·1	103·5	—0·5	111	8	80·5	+1·6	63	29	86·0	102·3	73·8	76·9	23·0	+2·5	19·3	55	+5	29
Quetta	5,490	830·9	—1·2	828·3	794·4	793·1	83·9	...	89	4	45·8	...	36	25,26	64·8	79·6	52·0	64·2	8·4	—1·8	15·1	54	+2	39
Quetta (Samungli) ...	5,293	839·9	...	837·2	796·7	795·9	84·6	...	91	6	45·3	...	34	26	57·5	82·3	47·9	63·1	8·0	...	12·8	48	...	34
Chaman	4,381	866·6	+0·3	864·8	896·4	893·2	88·5	—2·3	99	1	61·1	—2·6	51	25	72·1	86·2	56·7	70·4	9·3	+1·4	19·0	35	+4	45
Nushki	3,412	898·2	...	895·1	899·9	897·4	93·4	...	100	6,7	67·6	...	55	67	75·6	92·0	58·3	64·6	9·7	...	9·6	33	...	21
Kalat	6,616	799·3	+0·3	797·4	796·7	794·9	80·4	—3·6	86	5 days	47·6	—0·9	35	28	58·2	76·7	46·3	56·5	6·4	—2·3	8·3	39	—5	27
Dalbandin	2,785	913·7	+0·4	910·7	895·6	893·8	96·3	—3·0	103	4	56·9	—4·7	46	28	67·5	93·8	50·1	64·7	5·3	—2·8	9·3	24	—10	17
Nokkundi	2,229	930·8	...	928·4	1005·2	1000·1	97·7	—2·8	111	2	68·4	—2·5	55	30	73·8	95·1	55·2	64·4	9·3	—1·1	12·1	29	—4	16
BALUCHISTAN (South)																								
Las Bela	292	994·3	—1·4	992·0	1004·3	1001·5	98·2	—1·2	107	6	*	...	...	...	81·0	95·6	73·7	79·6	25·4	—2·6	28·2	70	—11	55
Ormara	15	1004·9	...	1001·9	1005·2	1002·4	87·1	+0·7	95	30	76·9	+0·6	69	30	79·8	85·6	76·2	78·1	29·6	+2·8	29·9	85	—1	72
Pasni	10	1005·2	—0·9	1002·2	1005·8	1002·7	89·6	+0·4	101	29	74·8	+2·3	69	29,30	75·8	87·7	70·4	77·9	23·0	—4·3	28·6	84	—2	73
Turbat	510	989·0	...	985·0	1006·5	1001·2	106·2	...	114	4	74·1	...	69	29,30	81·6	104·4	75·4	75·1	28·3	...	17·1	70	...	43
Panjgur	3,177	901·0	0·0	899·0	895·4	893·6	92·4	—3·3	98	6,7	61·8	—3·2	52	30	68·7	90·3	53·9	64·6	14·5	+0·5	9·2	42	—11	17
SIND (Upper)																								
Reti	280	995·4	...	992·0	1005·0	1001·3	101·7	...	107	7,8,9	78·2	...	67	29	83·7	100·0	75·2	86·6	26·0	...	35·7	70	...	40
Jacobabad	183	997·7	—0·4	994·4	1004·1	1000·6	100·1	—2·2	105	7	79·4	+2·4	68	18	83·4	98·1	75·6	77·7	26·0	—2·4	23·9	68	—5	38
Sukkur	221	995·8	—0·5	992·9	1003·4	1000·3	100·1	—0·3	107	8	79·2	+0·5	70	29	81·2	97·0	75·2	79·5	26·9	—0·3	28·4	74	+1	45
Padidan	153	998·5	...	995·4	1003·4	1000·5	101·5	...	108	7	76·4	...	64	29	81·5	99·7	76·8	81·2	29·3	...	28·0	80	...	44
SIND (Lower)																								
Umarkot	55	1002·2	...	999·3	1004·0	1001·1	96·9	...	102	17	77·2	...	71	30	83·3	95·9	79·6	85·6	32·8	...	33·5	86	...	58
Hyderabad ...	96	1001·1	—0·7	998·1	1004·4	1001·3	99·6	+2·3	105	3	78·3	+1·9	70	30	81·7	95·2	76·2	79·5	28·7	+3·9	28·6	76	+4	47
Karachi (Daigh Road)	73	1002·5	...	1000·3	1005·1	1002·8	94·6	...	101	6,17	77·6	...	65	30	80·3	89·9	76·5	77·5	28·4	...	28·2	86	...	67
Karachi (Manora) ...	13	1004·6	—1·2	1002·5	1005·1	1002·9	86·7	+1·1	89	8,9,10	78·6	+1·9	73	30	80·0	84·2	78·9	79·0	30·1	+1·4	30·7	87	+1	78
Badin	34	1003·3	—1·2	1000·3	1004·3	1000·7	90·5	+2·2	100	6	*	...	...	...	82·5	92·7	78·7	79·5	29·4	+2·2	30·1	81	+4	51

(R) Register not received.

*Data rejected.

G.M.T. AND 1200 HRS. G.M.T., SEPTEMBER 1950—*contd.*

Cloud Amount (Eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction— Number of Winds from : 0300 hrs. G.M.T.									1200 hrs. G.M.T.									STATIONS
Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																													N. W. F. P. (Upper)
2·0	...	1·8	1·80	...	1·80	13	1	...	4·4	...	1	3	9	2	1	0	2	0	12	2	0	3	2	3	5	4	10	1	Chakdara.
1·8	+0·3	3·5	0·39	—0·42	0.36	15	1	—0.5	(c) 2·4	+1·1	5	2	1	0	2	3	1	5	11	3	17	1	1	0	3	1	0	4	Peshawar.
1·2	...	2·9	0·31	...	0·17	15	2	...	3·5	...	2	7	0	2	1	2	0	1	15	0	1	0	23	2	1	0	2	1	Landikotal.
																													N.-W. F. P. (Lower)
2·3	+1·4	2·3	0·23	—0·40	0·23	30	1	0·0	2·9	...	1	1	4	1	3	0	5	1	14	2	1	9	12	3	1	1	0	1	Bannu.
1·1	+0·5	2·8	0·45	—0·28	0·41	3	1	—0·7	5·6	+1·0	0	0	1	2	0	0	0	0	27	1	5	15	7	1	1	0	0	0	Miranshah.
0·7	—0·1	0·6	0·31	—0·32	0·31	3	1	+0·1	2·2	+1·0	2	21	1	2	0	0	0	0	4	3	7	5	5	0	0	0	1	9	D. I. Khan.
																													BALUCHISTAN (North)
0·5	—0·1	1·0	0·00	—0·32	0·00	...	0	—0·7	2·8	+1·1	0	0	0	0	0	0	0	0	30	0	0	0	2	0	1	0	0	27	Fort Sandeman.
0·0	...	0·7	0·00	...	0·00	...	0	...	6·7	...	0	0	0	3	1	7	12	3	4	0	0	1	1	2	13	12	1	0	Hindubagh.
																													Loralai. (R)
0·5	0·0	0·6	0·00	—0.13	0·00	...	0	—0·3	2·9	—0·4	0	2	1	3	0	5	2	2	15	0	0	4	4	4	10	7	0	1	Sibi.
0·1	—0·2	0·4	0·00	...	0·00	...	0	...	3·0	+1·4	4	2	1	2	5	3	3	3	7	6	1	0	0	0	0	6	16	(b) 0	Quetta.
0·0	...	0·4	0·00	...	0·00	...	0	...	5·1	...	1	3	8	4	0	0	0	2	12	0	0	0	0	0	4	12	14	0	Quetta (Samungli).
0·0	—0·2	0·0	0·00	—0·03	0·00	...	0	—0·1	4·7	+1·0	0	2	3	9	2	(b) 4	3	1	5	2	0	1	0	1	10	12	4	0	Chaman.
0·0	...	0·2	0·00	...	0·00	...	0	...	7·2	...	3	5	10	2	0	0	1	4	5	0	1	0	0	0	2	10	17	0	Nushki.
0·0	—0·3	0·1	0·00	—0·09	0·00	...	0	—0·2	5·3	+1·6	0	0	0	27	0	0	0	0	3	0	0	0	0	0	0	0	30	0	Kalat.
0·1	—0·3	0·2	0·00	0·00	0·00	...	0	0·0	2.9	—0·3	1	2	1	0	0	1	1	1	23	0	0	1	4	2	12	3	1	7	Dalbandin.
0·1	—0·1	1·0	0·00	0·00	0·00	...	0	0·0	8.0	—0·7	8	2	1	2	1	2	0	14	0	9	0	0	1	1	1	1	17	0	Nokkundi.
																													BALUCHISTAN (South)
(f) 0·3	—2·2	(f) 1·2	0·00	—0·58	0·00	...	0	—0.5	(e) 2·8	+0·4	0	0	0	0	(e) 0	0	0	0	26	0	0	0	16	(e) 2	2	0	0	6	Las Bela.
3·6	—1·3	0·6	0·00	—0·01	0·00	...	0	0·0	10·3	+1·0	0	0	2	1	0	11	13	1	2	0	0	0	1	0	14	15	0	0	Ormara.
1·9	—1·4	0·3	0·00	0·00	0·00	...	0	0·0	8·9	+2·9	0	3	0	3	0	3	8	10	3	0	0	0	1	0	23	1	5	0	Pasni.
0·0	...	0·0	0·00	...	0·00	...	0	...	5·5	...	1	1	2	0	0	3	10	1	12	3	1	1	0	0	4	13	7	1	Turbat.
0·5	—0·1	0·5	0·00	—0·04	0·00	...	0	—0·2	4·9	—0·3	1	16	3	2	0	1	0	5	2	1	3	0	0	0	1	0	25	0	Panjgur.
																													SIND (Upper)
0·2	...	0·3	0·00	...	0·00	...	0	...	5·8	...	1	6	2	2	16	2	0	0	1	4	6	0	1	8	3	3	3	2	Reti.
1·2	+0·7	1·2	0·00	—0·17	0·00	...	0	—0·3	6·1	+1·6	0	0	11	12	2	0	0	1	4	0	0	0	22	6	1	0	0	1	Jacobabad.
1·5	+1·1	1·7	0·00	—0·02	0·00	...	0	—0·1	2·8	—0·7	0	1	6	10	6	5	0	0	2	13	7	1	0	0	0	3	3	3	Sukkur.
1·7	...	2·5	0·11	...	0·11	24	1	...	5·0	...	1	2	2	16	7	0	0	1	1	4	3	2	4	8	2	4	3	0	Pad Idan.
																													SIND (Lower)
1·5	...	1·4	0·36	...	0·30	2	1	...	4·9	...	0	1	0	0	4	20	5	0	0	2	0	1	0	1	18	8	0	0	Umarkot.
1·4	+0·1	1·4	0·00	—0·63	0·00	...	0	—0·8	6·5	—0·8	2	1	0	0	1	24	1	0	1	2	3	1	0	1	23	0	0	0	Hyderabad.
3·4	...	3·3	0·05	...	0·04	15	0	...	9·9	...	0	0	0	0	1	6	21	1	1	0	1	0	0	0	16	13	0	0	Karachi (Drigh Road).
3·5	—0·7	5·4	0·00	—0·52	0·00	...	0	—0·5	7·8	—0·9	0	0	0	0	0	5	17	2	6	1	0	0	0	0	12	16	1	0	Karachi (Manora)
1.1	—1·8	1·0	0·49	—0·40	0·49	16	1	+0·1	2·7	...	0	0	0	0	0	25	2	0	3	0	1	0	1	1	24	1	2	0	Badin.

(b) Mean of 29 days. (c) Mean of 28 days. (e) Mean of 26 days. (f) Mean of 25 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS

STATIONS	Height of Bar cistern above M.S.L. in feet	Pressure at station level, millibars: Mean 0300 hrs. G.M.T.	Pressure at station level, millibars: Departure from normal	Pressure at station level, millibars: Mean 1200 hrs. G.M.T.	Pressure at M.S.L. millibars: Mean 0300 hrs. G.M.T.	Pressure at M.S.L. millibars: Mean 1200 hrs. G.M.T.	Maximum temperature °F: Mean	Maximum temperature °F: Departure from normal	Maximum temperature °F: Highest	Maximum temperature °F: Date	Minimum temperature °F: Mean	Minimum temperature °F: Departure from normal	Minimum temperature °F: Lowest	Minimum temperature °F: Date	Dry bulb temperature °F: Mean 0300 hrs. G.M.T.	Dry bulb temperature °F: Mean 1200 hrs. G.M.T.	Wet bulb temperature °F: Mean 0300 hrs. G.M.T.	Wet bulb temperature °F: Mean 1200 hrs. G.M.T.	Vapour pressure millibars: Mean 0300 hrs. G.M.T.	Vapour pressure millibars: Departure from normal	Vapour pressure millibars: Mean 1200 hrs. G.M.T.	Relative humidity %: Mean 0300 hrs. G.M.T.	Relative humidity %: Departure from normal	Relative humidity %: Mean 1200 hrs. G.M.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
HILL STATIONS (Excluding Kashmir & Baluchistan)																								
Murree	7,113	783·8	—0·7	783·0	795·4	794·4	68·3	—4·0	73	14	53·5	—1·3	45	30	59·8	63·4	54·2	58·1	12·3	—0·7	14·6	69	+2	72
Cherat	4,272	866·9	—0·4	865·5	895·5	890·2	80·1	—3·9	86	8,11	63·0	—3·1	56	24	67·7	77·4	61·8	65·5	16·4	+0·8	16·6	72	+9	54
Drosh	4,806	851·7	—1·4	847·7	896·5	891·2	86·3	—1·7	95	2	64·9	+0·5	53	24	67·6	80·3	56·9	59·0	11·5	—1·3	8·4	50	—8	25
Parachinar	5,673	824·7	—0·5	823·4	795·0	794·2	80·2	—1·0	86	11,12	55·8	—2·8	45	30	65·2	73·1	57·3	63·1	13·2	+0·7	16·2	63	+7	62
Wana	4,457	863·9	...	861·2	898·1	894·7	88·3	—1·3	95	8,12	60·4	—0·8	49	30	67·1	82·9	58·7	64·2	13·5	+1·0	12·9	58	+4	34
AFGHANISTAN																								
Jalalabad	1,950	930·5	...	927·1	996·6	988·2	92·9	...	98	7	68·7	...	56	28,30	72·3	90·3	†	†	†	†	†	†	†	†
Kabul	5,955	819·1	...	816·5	798·3	796·6	84·0	—0·5	90	4 days	50·2	—1·2	40	30	57·7	60·0	46·5	55·8	6·8	—0·8	6·5	42	+1	20
Kandahar	3,462	...	...	...	...	...	91·2	...	98	17	47·2	...	39	26,30	58·8	87·4	53·3	75·0	11·7	...	24·6	68	...	55
IRAN																								
Jask	13	1002·9	...	1002·4	1006·6	1002·7	93·5	—0·1	99	20	80·5	—0·3	75	29,30	81·8	93·3	75·0	80·1	26·8	...	29·2	72	...	55
ARABIA																								
Muscat	20	1004·1	...	1002·7	1004·5	1003·2	92·5	+0·8	102	4,5	84·0	+1·4	81	14,17	86·0	88·5	80·6	81·0	33·1	...	33·3	78	...	71
Kuwait*	16	1005·0	...	1003·2	1005·7	1003·9	99·2	...	110	7	80·8	...	72	30	83·8	95·9	69·4	77·9	18·1	...	24·6	49	...	45

*Recorded at 0500 hrs. G.M.T. instead of 0300 hrs. G.M.T.

†Data rejected.

TABLE III.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS SEPTEMBER 1950

STATION	Maximum temperature F: Mean	Maximum temperature F: Departure from normal	Maximum temperature F: Highest	Maximum temperature F: Date	Minimum temperature F: Mean	Minimum temperature F: Departure from normal	Minimum temperature F: Lowest	Minimum temperature F: Date	Mean dry bulb temperature 0300 hrs. G.M.T. °F	Mean wet bulb temperature 0300 hrs. G.M.T. °F	Vapour pressure millibars: Mean 0300 hrs. G.M.T.	Vapour pressure millibars: Departure from normal	Relative humidity %: Mean 0300 hrs. G.M.T.	Relative humidity %: Departure from normal	Mean cloud amount 0300 hrs. G.M.T.	Precipitation: Total of the month	Precipitation: Departure from normal	Precipitation: Heaviest fall in 24 hours	Precipitation: Date	Number of rainy days 0·10" or more: Total in the month	Number of rainy days 0·10" or more: Departure from normal	Wind: Resultant direction 0300 hrs. G.M.T.	Wind: Velocity in nots
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
EAST PAKISTAN (North)																							
Pabna	91·4	+0·6	95	10,11,22	✗	...	...	...	84·9	80·1	32·7	—0·6	79	—2	...	6·29	—2·08	1·15	15	11	—0·1	...	...
KASHMIR																							
Jammu*✗																							
Kargil*✗																							

✗Data not available.

G.M.T. AND 1200 HRS. G.M.T., SEPTEMBER 1950—*concld.*

Cloud Amount (Eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction—Number of Winds from :																			
											0300 hrs. G.M.T.									1200 hrs. G.M.T.										STATIONS
Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	No. of Days with 0.10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	
			"	"	"																									HILL STATION (Excluding Kashmir & Baluchistan)
3·6	+1·4	5·5	2·91	—2·51	0·66	4	9	+1·8	5·1	+1·8	1	2	4	7	0	0	8	2	6	0	2	10	2	0	0	8	4	4		Murree.
1·8	+0·3	2·8	0·64	—1·43	0·34	3	2	—0·9	5·9	+1·2	10	0	0	3	6	1	0	4	6	0	0	0	11	16	1	0	2	0		Cherat.
2·3	+1·1	3·5	0·18	—0·51	0·08	24	0	—1·9	3·8	+0·6	0	0	1	0	0	1	0	0	28	0	3	2	0	0	12	10	0	3		Drosh.
1·3	+0·4	5·0	0·94	—1·17	0·30	30	4	—1·0	3·0	+0·9	1	6	0	2	3	1	3	0	14	0	5	5	12	4	0	1	1	2		Parachinar.
0·2	—0·6	1·2	0·03	—0·46	0·03	19	0	—1·4	2·9	...	0	0	0	2	10	5	0	0	13	0	0	6	21	2	1	0	0	0		Wana.
																														AFGHANISTAN
1·7	...	2·8	0·10	...	0·09	24	0	...	1·5	...	1	0	0	1	0	0	0	0	28	5	8	8	4	0	0	0	0	5		Jalalabad.
0·9	+0·5	2·0	0·03	—0·01	0·03	23	0	—0·2	2·4	+0·8	2	3	0	0	0	3	8	7	7	12	12	2	1	1	0	1	0	1		Kabul.
0·0	...	0·0	0·00	...	0·00	...	0	...	1·0	...	0	0	0	0	0	0	0	0	30	0	0	0	0	0	7	0	0	23		Kandahar.
																														IRAN
2·0	+0·6	0·7	0·00	0·00	0·00	...	0	0·0	5·8	—1·3	2	2	14	7	0	0	0	0	5	0	0	0	0	13	7	10	0	0		Jask
																														ARABIA
1·1	+0·6	0·8	0·00	0·00	0·00	...	0	0·0	2·3	—0·5	0	2	2	1	3	2	0	5	15	1	1	0	0	2	3	0	8	15		Muscat.
0·0	...	0·0	0·00	...	0·00	...	0	...	4·9	...	0	0	1	3	0	5	8	12	1	3	0	11	5	0	0	2	9	0		Kuwait*.

TABLE IV.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS G.M.T. AT 5TH CLASS STATIONS, SEPTEMBER 1950

DIVISION	STATION	PRECIPITATION					
		Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal
1	2	3	4	5	6	7	8
		"	"	"			
EAST PAKISTAN (*North*)		(d)					
	Rajshahi	4·05	—5·73	1·30	13	8	—3·6
	Rangpur	5·89	—8·21	3·41	7	5	—7·9
KASHMIR							
	Sonamarg*						
	Gurez*						
BALUCHISTAN (North)	Harnai	0·06	—0·88	0·06	1	0	—1·4

*Data not available. (d) Total rainfall for 27 days only.

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PAKISTAN WEATHER REVIEW, 1950

Monthly Weather Report

October

Published by the authority of the Government of Pakistan

Chief Features :—(1) Absence of rainfall over West Pakistan outside the north Punjab, as the Western disturbances were fewer and feebler than usual.

(2) A depression from the Bay of Bengal crossing coast near Barisal.

West Pakistan :—Western disturbances moving eastwards across the extreme north of West Pakistan caused scatterd thunderstorms/showers in the North-West Frontier Province on the 3rd and over and near the hills of the North-West Frontier Province and the north Punjab on the 13th, 14th, 17th and 18th.

In association with a western disturbance moving through Kashmir, a trough of low appeared over northeast Baluchistan on the 20th and while moving eastwards through the south Punjab caused rain/showers over there. Murree recorded 1½" of rain on the 14th.

The mean actual rainfall during the month was in slight defect in the north Punjab. No rain fell elsewhere. Averaged over the plains of West Pakistan it was in moderate defect.

The mean, maximum and minimum temperatures were normal over the region except south Baluchistan where the mean maximum temperature was below normal. The mean relative humidity was in excess in the north Punjab, the lower North-West Frontier Province, south Baluchistan and Sind and normal elsewhere. Skies were less clouded than usual in the Punjab, the upper North-West Frontier Province, south Baluchistan and lower Sind.

East Pakistan :—Last month's well marked trough of low in the north-west Bay of Bengal continued to cause general rainfall in East Pakistan for the first two days of the month.

Low pressure waves moving eastwards through East Pakistan caused scattered thunderstorms/showers from the 3rd to 6th, and 9th and again during the period 12th to 18th.

Under the influence of a well marked trough of low in the south and adjoining central Bay of Bengal, maritime air penetrated into East Pakistan where spell of wet weather was experienced on the 10th and 11th.

A depression which had formed in the south and adjoining Central Bay of Bengal on the 17th, and moved into the head Bay, off Sunderbans coast by the 21st, crossed the coast near Barisal on the 22nd. It weakened and moved away north-east-wards across East Pakistan. In its association fairly widespread rainfall occurred in East Pakistan, from the 20th to 23rd and scattered on the 19th and 25th.

Some of the noteworthy amounts of rainfall recorded during the month were.—Srimangal 5" on the 11th; Comilla 4" on the 12th ; Chittagong 2" on the 20th; Rangpur 4" , Cox's Bazar and Barisal 3" each on the 21st ; Barisal 5", Sirajganj and Bogra 3" each on the 22nd.

The mean, actual rainfall during the month was in moderate excess in the Deltaic sub-division in slight excess in the Northern sub-division and normal in the Eastern sub-division of East Pakistan. Averaged over the region as a whole it was in slight excess.

The mean maximum and minimum temperatures and relative humidity were normal and skies were more clouded than usual over all the sub-divisions.

Table I contains the Divisional and sub-divisional means of rainfall, temperature, humidity and cloud for the 5 Chief divisions and 12 sub-divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

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TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—OCTOBER 1950

	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	Inches	Inches	Inches		°F	°F	mb	%	
DIVISION									
1. East Pakistan	6·27	5·49	+0·78	+14	—0·5	+1·2	+0·7	+3	+1·5
Mean of East Pakistan	6·27	5·49	+0·78	+14	—0·5	+1·2	+0·7	+3	+1·5
2. Punjab	0·13	0·19	—0·06	—32	—1·5	+0·9	+1·5	+12	—0·4
3. North-West Frontier Province	0·00	0·10	—0·10	—100	—1·0	—0·1	+1·3	+6	—0·6
4. Baluchistan	0·00	0·07	—0·07	—100	+0·1	+0·2	+1·2	+1	—0·6
5. Sind	0·00	0·02	—0·02	—100	+0·6	+1·0	+2·5	+11	—0·4
Mean of West Pakistan excluding Baluchistan ...	0·06	0·12	—0·06	—50	—0·7 ~~+0·7~~	+0·8	+1·8	+11	—0·4
SUB-DIVISION									
1. East Pakistan (North)	5·72	4·76	+0·96	+20	0·0	+0·7	0·0	0	+1·3
2. East Pakistan (East)	6·34	6·57	—0·23	—4	+0·1	+1·5	+0·7	+2	+1·2
3. East Pakistan (Deltaic)	6·82	4·87	+1·95	+40	—1·7	+1·0	+1·0	+5	+1·9
4. Kashmir*									
5. North Punjab	0·25	0·32	—0·07	—22	—1·7	+0·9	+2·4	+17	—0·6
6. South Punjab	0·00	0·05	—0·05	—100	—1·3	+0·8	+0·1	+5	—0·2
7. North-West Frontier Province (Upper)	0·00	0·23	—0·23	—100	—0·9	+0·2	+0·7	+3	—0·9
8. North-West Frontier Province (Lower)	0·00	0·06	—0·06	—100	—1·1	—0·2	+1·4	+7	—0·5
9. Baluchistan (North)	0·00	0·09	—0·09	—100	+1·0	+0·3	+0·6	—1	—0·5
10. Baluchistan (South)	0·00	0·01	—0·01	—100	—2·1	—0·4	+3·0	+7	—0·9
11. Sind (Upper)	0·00	0·02	—0·02	—100	—0·1	+0·7	+1·0	+10	—0·3
12. Sind (Lower)	0·00	0·03	—0·03	—100	+1·0	+1·2	+3·6	+15	—0·5

*Data incomplete.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATIONS	Height of bar. cistern above M.S.L. in feet	Pressure at station level in millibars			Pressure at M.L. or nearest GPKM. level.		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure millibars			Relative humidity %		
		Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G.M.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
EAST PAKISTAN (North)																								
Sirajganj	48	1007·3	—	1003·8	1009·0	1005·5	86·8	—	91	6	74·6	—	69	21	79·4	83·5	76·1	77·3	28·6	—	29·0	86	—	75
Bogra	63	1007·9	—1·6	1004·5	1010·0	1006·6	87·5	—0·3	95	5	74·6	+1·5	67	21	80·8	82·6	76·2	76·6	29·1	+0·5	29·0	81	+1	75
Dinajpur	123	1006·6	—0.9	1002·8	1010·8	1007·0	89·1	+1·7	93	11days	72·1	0·0	68	4 days	80·1	82·9	75·1	77·1	27·4	—0·1	29·0	79	—2	76
EAST PAKISTAN (East)																								
Cox's Bazar ...	38	1009·0	—1·3	1006·2	1010·3	1007·5	88·0	+0·9	90	8 days	75·1	+1·5	73	21,28	82·1	81·6	77·3	77·3	29·4	—0·9	30·2	80	0	82
Chittagong ...	87	1007·2	—1·6	1004·2	1010·2	1007·2	86·9	0·0	91	9,16	75·0	+1·6	71	22	81·6	80·9	76·9	76·9	30·2	+0·6	29·9	79	—4	83
Comilla	27	1009·1	—1·7	1005·6	1010·1	1006·6	85·4	—2·8	90	6	75·1	+1·7	71	17,22	81·1	81·7	77·1	77·9	29·9	—0·1	30·9	83	+7	84
Narayanganj ...	26	1008·4	—2·5	1004·9	1009·3	1005·8	89·4	+1·2	94	1	76·1	+0·8	71	20	83·4	82·2	77·4	76·9	29·0	—0·1	28·7	76	—1	78
Brahmanbaria ...	32	1009·2	—	1005·6	1010·3	1006·7	89·1	—0·1	93	5 days	75·3	+1·1	72	7,17	82·6	82·7	77·5	77·7	30·5	+1·3	30·5	79	+3	80
Srimangal	69	1007·5	—2·4	1004·6	1009·9	1007·0	87·7	—1·3	92	3,8	72·5	+2·3	67	7	78·7	80·3	76·0	77·8	30·0	+1·6	31·1	89	+5	89
Mymensingh ...	62	1007·6	—2·4	1004·1	1009·8	1006·3	89·7	+2·6	95	5	75·5	+1·6	74	7 days	80·7	83·2	77·6	79·0	31·4	+2·6	32·0	86	+5	82
EAST PAKISTAN (Deltaic)																								
Faridpur	46	1008·3	—1·5	1005·1	1009·9	1006·7	82·8	—4·5	89	4	75·3	+1·2	72	20	81·5	81·1	77·2	77·2	29·1	—0·1	29·9	81	+5	83
Barisal	11	1009·7	—1·3	1006·5	1010·1	1006·9	88·0	+0·4	92	6,15	76·3	+1·4	73	20,21	82·5	82·1	77·4	77·3	30·5	+0·3	29·4	79	0	80
Khulna	16	1010·5	—0·7	1006·3	1011·1	1006·9	87·5	—0·6	94	15	76·0	+1·0	72	21	82·5	81·4	77·3	76·6	30·5	+2·0	28·4	78	+4	80
Jessore	26	1009·1	—1·7	1005·5	1010·0	1006·4	87·0	—2·0	94	4	72·9	+0·4	69	7,16,21	80·7	81·4	77·4	77·3	30·6	+1·6	29·9	86	+8	83
Satkhira	16	1007·8	—3·3	1005·8	1008·4	1006·4	87·8	—1·9	93	5,16	75·1	+1·0	69	21	81·0	81·3	77·3	77·0	30·6	+1·3	29·1	84	+6	82
KASHMIR																								
Srinagar. †... ...	5,205																							
Gulmarg †... ...	8,709																							
Dras †	10,059																							
Leh †	11,529																							
Skardu †	7,505																							
Gilgit †	4,890																							
Misgar	10,190	703·5	—	700·3	907·3	904·0	*	—	—	—	*	—		—	31·9	48·2	27·1	34·2	3·5	—	2·3	60	—	21
NORTH PUNJAB																								
Lahore	702	986·6	—0·2	984·7	1011·1	1008·5	90·0	—4·0	94	7,9	62·5	+2·7	58	30	71·8	85·4	66·3	71·5	19·6	+3·7	19·3	73	+18	48
Sialkot (R) ...	830	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jhelum	765	984·7	—	982·2	1011·6	1007·9	90·2	—	93	5 day	59·2	—	52	2	67·2	85·3	62·5	73·0	17·2	—	22·2	76		53
Rawalpindi... ...	1,674	953·9	—0·9	951·7	1012·0	1008·1	88·6	0·0	93	12	56·2	—0·8	51	24,31	63·4	79·7	57·4	66·8	13·7	+0·9	17·2	67	+15	51
Khushab	616	989·4	—0·8	987·6	1011·0	1008·3	93·3	—0·3	96	4,6,10	63·6	+0·2	69	14	69·8	90·7	60·8	68·2	14·2	+0·8	13·4	57	+5	27
Lyallpur	605	989·2	—1·0	987·2	1010·4	1007·7	92·0	—1·2	97	10	63·3	+0·9	58	31	68·6	88·1	63·2	69·3	17·3	+2·7	15·9	75	+18	36

† Data not available. (R) Register not recieved. *Data rejected

0300 HRS. G. M. T. AND 1200 HRS. G. M. T.—OCTOBER, 1950.

Cloud Amount (eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction—Number of Winds from :—																			
											0300 hrs. G.M.T.									1200 hrs. G.M.T.										STATIONS
Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0·10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm		
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54		55
																														EAST PAKISTAN (North)
5·8	—	5·2	7·77	+3·06	2·62	22	8	+2·8	1·5	—	0	0	0	0	0	0	0	0	31	1	0	1	1	0	0	0	0	28		Sirajganj
4·4	+1·8	4·8	5·96	+0·83	3·47	22	7	+1·5	1·7	+0·6	3	12	8	2	2	2	0	0	2	2	2	2	2	3	1	1	1	17		Bogra
3·5	+0·9	2·4	1·43	—3·32	0·72	22	4	—0·5	1·5	+0·3	1	5	1	2	1	0	0	0	21	1	2	0	1	0	0	0	0	27		Dinajpur
																														EAST PAKISTAN (East)
4·0	+0·6	4·7	8·27	+1·11	3·22	21	11	+3·5	0·7	—1·0	0	0	0	1	0	0	0	1	29	3	0	0	0	1	0	0	0	27		Cox's Bazar
5·2	+1·6	5·2	8·02	+0·93	2·08	20	11	+4·0	2·5	—0·6	1	10	14	3	1	1	0	0	1	1	1	3	1	4	8	7	6	0		Chittagong
5·2	+2·4	5·4	11·84	+5·12	4·06	12	8	+1·4	1·9	+0·3	5	7	5	9	3	1	0	1	0	6	2	4	3	6	0	1	1	8		Comilla
4·3	+0·9	5·3	3·01	—2·26	1·03	22	6	0·0	1·7	+0·2	1	6	9	3	6	1	3	2	0	1	2	2	1	6	2	7	0	10		Narayanganj
4·2	+1·1	3·7	3·07	—3·27	0·95	22	6	—0·9	1·9	—	2	5	4	2	1	0	2	0	15	2	0	1	0	1	2	0	0	25		Brahmanbaria
5·4	+2·2	4·7	8·82	+1·76	4·60	11	10	+1·9	1·5	—0·2	6	4	2	2	3	0	5	0	9	1	1	1	1	3	0	7	0	17		Srimangal
3·2	—0·3	3·3	1·38	—4·94	0·35	15	6	—0·1	1·5	+0·6	0	1	3	2	0	0	0	0	25	0	0	0	1	0	0	0	0	30		Mymensingh
																														EAST PAKISTAN (Detaic)
4·9	+2·5	6·2	7·43	+2·58	2·46	22	10	+4·4	2·1	+0·1	6	9	7	4	0	0	0	0	5	2	6	4	4	2	0	0	0	13		Faridpur.
5·0	+2·0	6·4	13·31	+7·17	5·47	22	8	+1·1	1·9	+0·6	6	6	1	5	1	2	1	3	6	0	0	0	3	4	2	2	5	15		Barisal.
3·8	+0·4	4·2	5·94	+1·68	1·75	29	7	+0·8	1·8	+0·1	2	8	2	1	0	3	3	2	10	4	0	2	8	3	0	1	1	12		Khulna
4·9	+2·1	5·3	2·39	—2·20	0·80	21	7	+1·2	1·6	+0·4	3	3	3	2	1	5	2	1	11	1	3	1	4	1	1	2	0	18		Jessore
5·5	+2·6	6·5	5·05	~~+0·85~~ +2·55	1·15	2	9	+3·3	1·4	+0·4	1	6	4	2	0	7	0	8	3	4	1	2	3	2	3	0	4	12		Satkhira
																														KASHMIR
																														Srinagar ×
																														Gulmarg ×
																														Dras ×
																														Leh ×
																														Skardu ×
																														Gilgit ×
1·3	—	3·1	0·00	—	0·00	—	0	—	3·2	—	0	0	1	0	0	0	10	0	20	0	0	18	5	1	0	5	0	2		Misgar
																														NORTH PUNJAB
0·0	—0·6	0·2	0·00	—0·24	0·00	—	0	—0·5	1·3	+0·3	1	3	0	2	1	0	0	0	24	1	0	0	0	0	0	3	0	27		Lahore
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		Sialkot (R)
0·2	—	0·5	0·00	—	0·00	—	0	—	1·1	—	0	0	0	1	1	0	1	2	26	0	0	0	1	0	2	0	1	27		Jhelum
0·2	—0·7	0·4	0·75	+0·15	0·75	14	1	—0·4	1·3	+0·1	0	0	0	0	0	0	0	0	31	0	2	0	0	0	0	1	0	28		Rawalpindi
0·0	—0·6	0·3	0·00	—0·15	0·00	—	0	—0·4	2·8	—0·1	1	12	4	3	0	1	3	1	5	0	0	1	8	7	6	3	3	2		Khushab
0·1	—0·6	0·0	0·00	—0·12	0·00	—	0	—0·4	2·1	+0·7	2	2	2	3	5	1	0	0	16	3	1	7	2	2	0	1	1	14		Lyallpur

× Data not available. (R) Register not received.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED

STATIONS	Height of bar. cistern above M.S.L. in feet	Pressure at station level in millibars			Pressure at MSL or nearest GPKM level		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour presserve millibars			Relative humidity %		
		Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SOUTH PUNJAB																								
Montgomery ...	558	991·6	+0·1	989·6	1011·0	1008·2	92·4	—2·6	97	9,10,11	63·8	+0·3	57	31	73·7	89·4	64·1	70·4	16·1	—0·2	16·8	58	—2	35
Multan (P.B.O.) ...	405	996·4	—	993·9	1010·7	1007·5	94·0	—	99	5	64·1	—	56	31	71·8	91·3	62·7	67·3	15·4	—	12·1	58	—	24
Fort Abbas ...	475	993·5	—	990·1	1010·1	1006·5	95·5	—	99	10,11,18	63·1	—	57	30	73·0	91·5	61·5	70·5	13·5	—	16·0	49	—	30
Bahawalpur ...	384	996·8	—1·1	991·2	1010·3	1007·4	94·7	—0·9	98	4 days	64·0	+1·5	60	28,31	70·0	90 3	63·3	74·2	16·9	+0·4	21·8	68	+13	45
Khanpur	297	1000·0	—0·9	997·1	1010·3	1007·1	96·5	—0·4	100	5 days	64·5	+0·6	59	1,31	*	*	*	*	*	*	*	—	—	—
N. W. F. P. (Upper)																								
Chakdara	2 197	935·9	—	933·4	1013·0	1007·5	85·3	—	89	26	54·9	—	50	25	61·5	79·7	53·7	63·5	11·3	—	13·5	59	—	39
Peshawar	1,175	971·0	—1·0	968·1	1011·9	1007·7	86·9	—0·9	93	18	60·7	+0·2	56	29	67·7	83·3	58·5	65·6	12·6	+0·7	13·6	55	+3	35
Landikotal ...	3,503	893·8	—	891·7	898·7	896·5	81·3	—	86	10	52·8	—	49	5 days	64·7	76·6	56·1	65·0	11·9	—	16·4	57	—	53
N. W. F. P. (Lower)																								
Bannu	1,263	966·9	—	964·5	1010·7	1006·9	89·0	—1·6	93	11	62·3	+0·4	59	29,31	69·3	85·3	59·5	65·2	13·0	+0·7	12·2	53	+2	28
Miranshah ...	3,026	*	—	*	*	*	83·3	—0·3	87	11	57·9	—0·4	52	30	64·2	81·6	52·7	59·1	9·0	+1·8	8·1	46	+3	23
D. I. Khan ...	570	990·8	—0·6	988·2	1010·9	1007·5	92·0	—1·3	95	5 days	61·1	—0·6	56	31	67·4	89·3	62·5	72·2	17·1	+1·8	19·3	76	+15	41
BALUCHISTAN (North)																								
Fort Sandeman ...	4,614	860·6	—1·1	859·0	899·8	896·9	82·9	+0·3	87	11,12	52·3	—0·6	46	30,31	57·5	81·0	45·7	54·4	4·3	—1·6	1·2	35	—14	11
Hindubagh ...	5,950	822·1		820·0	799·8	797·5	78·7	—	84	10	47·5	—	35	31	58·0	74·3	45·2	52·5	5·7	—	5·6	36	—	18
Loralai	4,699	857·9	—	856·4	898·7	897·0	80·7	...	88	11	47·7	...	43	21	55·5	76·6	42·6	51·7	3·9	—	3·2	26	—	10
Sibi	441	994·8	—0·4	992·8	1010·2	1006·1	98·0	+0·4	103	28	64·6	—0·9	58	31	70·7	96·2	59·7	70·1	12·5	+2·9	13·3	48	+14	23
Quetta	5,490	835·3	—0·8	835·5	797·4	797·7	76·2	—	82	11	36·8	—	30	31	58·4	71·8	50·3	50·8	9·4	+3·3	4·8	56	+7	41
Quetta (Samungli) ...	5,253	843·6	—	841·2	803·2	800·4	77·3	—	82	11,12	35·6	—	27	31	47·3	74·7	40·9	60·7	6·4	—	13·1	58	—	45
Chaman	4,311	870·7	—0·8	868·6	901·1	899·7	81·9	+2·1	90	2,15	55·7	+2·2	48	31	63·3	79·4	50·2	60·8	7·3	+1·4	10·7	37	+4	34
Nushki	3,412	903·3	—	901·0	904·8	902·7	87·1	—	94	12	60·5	—	55	5 days	70·3	85·4	53·6	60·5	7·3	—	7·6	29	—	18
Kalat	6,616	802·5	+0·1	801·0	799·9	798·5	73·	—2·0	79	10	39·4	—1·5	30		47·5	69·8	39·1	53·5	4·9	—1·0	8·1	45	—	47
Dalbandin	2,785	918·6	—0·4	915·7	900·0	898·2	90·4	+1·4	95	12	50·0	—0·9	41	29	59·0	88.0	44·9	61·1	4·6	—1·2	7·4	27	—11	17
Nokkundi	2,229	935·3	—	934·0	1011·8	1006·1	92·9	+0·7	99	10,11	61·9	+1·8	51	29	67·4	90·1	53·2	65·9	6·7	—1·3	11·9	35	—9	23
BALUCHISTAN (South)																								
Las Bela	292	1000·1	—1·6	997·1	1010·4	1006·6	97·1	—2·6	103	27	×	—	—		75·1	93·1	68·2	73·2	20·2	+1·5	18·7	65	+3	36
Ormara	15	1010·6	—	1007·6	1011·1	1008·2	87·7	—1·5	94	12,16	70·4	—0·4	65	30	75·4	85·2	73·1	75·1	27·1	+4·5	25·3	91	+12	62
Pasni	10	1011·0	—0·8	1008·2	1011·2	1008·5	89·6	—0·9	100	15	67·0	—0·3	61	30	72·4	83·8	68·2	74·7	21·6	—0·1	25·6	80	+2	64
Turbat	510	994·7	—	991·1	1012·4	1007·7	100·3	—	104	16	68·7	—	61	30	77·8	98·7	69·9	78·7	20·6	—	24·7	65	—	39
Panjgur	3,177	905·4	—1·0	903·0	899·7	895·8	87·5	+0·3	93	9,10	54·2	—0·2	47	29	60·7	85·0	48·9	59·6	7·0	—0·8	7·1	38	—8	17
SIND (Upper)																								
Reti	280	1002·6	—	998·7	1011·4	1008·1	96·5	—	101	7	62·5	—	55	22	69·3	95·1	62·0	73·5	15·9	—	18·4	65	—	33
Jacobabad	183	1003·9	—0·6	1001·0	1010·4	1007·3	96·7	—0·8	100	14	67·1	+1·5	63	21	72·9	94·2	64·8	71·8	17·5	+1·1	16·2	63	+9	31
Sukkur	221	1002·0	—1·4	999·4	1009·7	1006·8	96·5	+0·5	100	4,13	68·7	—0·2	63	31	72·4	92·2	66·0	72·5	18·5	+0·9	18·4	70	+11	36
Pad Idan ...	153	1004·5	—	1001·8	1009·9	1007·0	97·8	—	101	3,13	63·5	—	58	31	71·5	96·2	64·8	71·7	17·8	—	15·3	69	—	27

× Data not available.

*Date Rejected

0300 HRS. G. M. T. AND 1200 HRS. G. M. T.—OCTOBER, 1950

Cloud Amount (eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction—Number of Winds from :—																			
											0300hG.M.T.									1200 hrs. G.M.T.										
Mean 0300 hrs. G. M.T	Departure from normal	Mean 1200 hrs. G. M. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	STATIONS
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																													SOUTH PUJAB
1·6	+1·2	1·7	0·00	—0·02	0·00	—	0	—0·3	1·0	—1·3	0	0	0	4	3	10	0	3	11	0	0	1	1	0	4	0	0	25	Montgomery
0·1	—	0·1	0·00	—	0·00	—	0	—	2.5	—	3	2	2	10	3	1	0	0	10	1	3	1	3	5	6	2	1	9	Multan (P.B.O)
0·1	—	0·0	0·00	—	0 00	—	0	—	3.9	—	2	0	7	7	6	6	1	0	2	1	15	1	2	0	3	2	4	3	Fort Abbas
0·3	—0·1	0·0	0·00	—0·06	0·00	—	0	—0·2	1.2	—0·8	0	0	2	1	0	1	0	0	27	0	0	0	0	0	0	1	1	29	Bahawalpur
0·0	—0·2	0·0	0·00	—0·02	0·00	—	0	—0·1	3.4	—0·2	3	4	2	0	6	8	0	1	7	2	2	0	0	0	1	12	9	5	Khanpur
																													N. W. F.P. (Upper)
0·0	—	0·0	0·00	—	0·00	—	0	—	3.8	—	0	1	2	2	1	9	2	0	14	0	10	5	0	2	2	6	5	1	Chakdara
0·1	—0·9	1·0	0·00	—0·23	0·00	—	0	—0·6	1.4	+0·3	0	0	0	0	3	1	0	2	25	5	17	3	0	0	0	0	0	6	Peshawar
0·0	—	0 3	0·00	—	0·00	—	0	—	2.5	—	0	0	0	4	2	0	0	2	23	0	2	3	22	2	0	0	1	1	Landikotal
																													N. W. F. P. (Lower)
0·0	—0·6	4.8	·00	—0·04	0·00	—	0	—0·1	2.4	—	0	0	0	0	0	0	14	4	13	0	1	11	3	1	0	1	0	14	Bannu
0·0	—0·5	4.2	0·00	—0·03	0·00	—	0	0·0	3.9	0·0	1	1	1	0	0	1	0	1	26	1	7	19	4	0	0	0	0	0	Miran Shah
0·1	—0·4	0·1	0·00	—0·11	0·00	—	0	—0·3	1.0	+0·2	2	8	0	0	0	0	0	0	21	0	1	2	1	0	0	0	0	27	D. I. Khan
																													BALUCHISTAN (North)
0·0	—0·6	0·6	0·00	—0·10	0·00	—	0	—0·2	2.2	+0·9	0	0	0	0	0	0	0	0	31	0	1	0	0	0	1	0	0	29	Fort Sandeman
0 0	—	0·4	0·00	—	0·00	—	0	—	5.9	—	0	0	0	1	0	11	16	3	0	1	0	3	1	2	14	8	2	0	Hindubagh
0·0	—	0·2	0·00	—0·03	0·00	—	0	—0·3	×	—	0	0	0	(b) 0	1	4	7	1	16	0	0	0	4	3	(c) 5	2	0	10	Loralai
0·0	—0·4	0·1	0 00	0·00	0·00	—	0	0·0	1.7	—0·6	0	2	1	2	0	1	0	6	19	0	0	4	6	6	10	4	0	1	Sibi
(a) 0·0	—0·5	0·2	0·00	—	0·00	—	0	—	2.8	+1·3	0	1	0	1	4	2	1	1	19	10	0	0	0	0	3	8	9	0	Quetta
0·0	—	0·1	0·00	—	0·00	—	0	—	3.5	—	0	1	6	6	0	1	0	0	17	1	0	0	0	0	3	11	15	1	Quetta (Samungli)
0 0	—0·6	0·0	0·00	—0·16	0·00	—	0	—0·2	4.4	+0·4	1	2	11	8	1	0	0	0	8	1	0	0	0	1	9	12	8	0	Chaman
0·1	—	0·1	0·00	—	0·00	—	0	—	5.2	—	1	7	19	1	0	0	0	0	3	0	0	0	0	0	4	5	21	1	Nushki
0·0	—0·4	0·3	0·00	—0·09	0·00	—	0	—0·2	4.1	+0·3	0	0	0	31	0	0	0	0	0	0	0	0	0	0	2	0	29	0	Kalat
0·0	—0·6	0·3	0·00	—0·02	0·00	—	0	—0·1	3.7	+1·1	1	4	0	1	0	2	2	1	20	0	2	4	8	2	3	1	4	7	Dalbandin
0·1	—0·5	0·2	0·00	0·00	0·00	—	0	0·0	5.7	+0·5	4	4	2	0	1	1	2	11	1	8	0	1	2	1	3	3	12	1	Nokkundi
																													BALUCHISTAN (South)
0·0	—1·4	0·0	0·00	—0·01	0·00	—	0	0·0	2.2	+0·3	0	0	0	0	0	0	0	0	31	0	0	2	11	2	1	0	0	15	Las Bela
1·5	—0·5	0·3	0·00	0·00	0·00	—	0	0·0	8.1	+0·8	6	5	8	1	0	3	5	1	8	0	0	0	3	2	12	13	0	1	Ormara
0·7	—1·0	0·3	0·00	0·00	0·00	—	0	0·0	7.8	+2·7	1	0	3	(a) 0	1	6	10	2	5	(b) 0	0	1	3	0	24	0	1	0	Pasni
0·0	—	0·0	0·00	—	0·00	—	0	—	4.0	—	0	7	6	2	1	2	1	0	12	1	6	4	3	2	6	8	1	0	Turbat
0·1	—0·3	0·6	0·00	—0·01	0·00	—	0	—0·1	3.2	+0·4	1	24	0	0	0	1	0	4	1	1	0	0	0	0	4	0	26	0	Panjgur
																													SIND (Upper)
0·0	—	0·0	0·00	—	0·00	—	0	—	3.5	—	1	1	0	1	9	1	0	0	1	5	1	0	0	4	3	6	1	1	Reti
0·0	—0·3	0·7	0·00	—0·03	0·00	—	0	—0·1	3.2	+0·4	4	2	10	1	0	0	0	0	14	1	0	0	15	7	2	1	1	4	Jacobabad
0·0	—0·2	0·1	0·00	—0·01	0·00	—	0	0·0	1.8	—0·3	2	3	4	12	1	2	1	0	6	11	6	0	1	0	1	4	5	3	Sukkur
0·0	—	0·1	0·00	—	0·00	—	0	—	3.2	—	1	1	2	9	7	1	1	1	8	5	0	0	4	4	2	3	9	4	Pad Idan

~~(a) Mean of 28 days~~ ~~(b) Mean of 29 days~~ ~~(c) Mean of 24 days~~

(a) mean of 30 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATIONS	Height of bar. cistern above mean sea level in feet	Pressure at station level in millibars			Pressure at nearest M.S.L. G.P K.M. level		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure millibars			Relative humidity %		
		Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 3 hrs. G.M.T.	Mean 12 hrs. G.M.T	Mean 3 hrs. G.M.T	Mean 12 hrs. G. M. T.	Mean 3 hrs. G. M. T.	Departure from normal	Mean 12 hrs. G. M. T.	Mean 3 hrs. G. M. T.	Departure from normal	Mean 12hrs . G. M.T
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SIND (Lower)																								
Umarkot	55	1008·0	—	1005·0	1009·6	1006·9	×	—	—	—	68·8	—	64	31	77·5	95·8	72·1	82·9	23·9	—	32·6	77	—	57
Hyderabad ...	96	1007·2	—0·6	1004·2	1010·6	1007·4	98·4	+0·6	104	13	70·0	—0·2	66	28,29,31	73·8	94·0	69·0	72·8	21·9	+3·4	18·2	75	+14	33
Karachi (Drigh Road)	73	1008·4	—	1006·0	1011·0	1008·5	92·5	—	101	13	68·5	—	61	31	74·6	87·5	70·8	73·4	23·3	—	29·7	82	—	51
Karachi (Manora) ...	13	1010·3	—1·0	1008·1	1010·8	1008·6	87·3	0·0	91	18	75·5	+1·8	84	4 days	77·5	84·0	74·7	77·7	27·3	+2·9	29·3	87	+7	76
Badin ...	31	1008·9	—1·3	1006·0	1010·0	1006·5	98·5	+2·5	104	20	71·9	+2·0	65	31	72·5	93·1	71·3	71·1	25·7	+4·4	16·0	80	+12	31
HILL STATIONS (excluding Kashmir and Baluchistan)																								
Murree	7,113	786·4	—0·8	785·8	798·1	797·5	65·1	—2·5	70		48·0	—1·3	40	14	54·8	58·5	45·0	50·7	6·7	—0·4	9·7	47	+1	59
Cherat	4,272	870·9	—0·7	869·7	899·9	898·1	77·3	+0·7	81		57·3	—1·1	53	22	62·9	73·0	53·5	58·4	10·3	+1·4	10·8	52	+4	39
Drosh	4,806	856·5	—1·4	851·7	902·5	895·9	79·5	+2·8	86	11	54·5	+1·3	51	5 days	55·9	74·0	45·9	52·3	6·6	—1·3	4·7	43	—14	17
Parachinar	5,673	828·3	—0.6	826·8	798·1	797·3	75·3	+1·1	79	10, 11, 28	49·2	+0·5	46	29	58·4	70·3	48·3	*	7·8	+0·8	*	48	+3	*
Wana	4,456	866·6	—	864·5	902·0	898·3	80·8	+0·8	85	11	45·9	—1·1	39	31	53·1	76·4	44·7	55·2	6·7	+0·2	6·4	48	+2	20
AFGHANISTAN																								
Jalalabad	1,950	936·0	—	932·5	1002·9	996·5	87·9	—		21	56·0	—	52	28,29	62·2	83·1	*	*	*	*	*	*	*	*
Kabul	5,955	822·3	—	819·3	801·0	799·9	75·2	+1·9	81	11	41·0	—0·4	36	28,29	46·8	72·1	37·0	51·4	4·1	—0·6	5·6	38	—8	20
Kandahar	3,462	895·2	—	892·9	898·8	896·3	85·9	—	92	12	39·8	—	33	31	46·1	78·4	41·9	60·2	7·3	—	10·4	70	—	31
IRAN																								
Jask	13	1009·4	—	1008·4	1009·7	1008·8	90·8	0·0	98	3	77·4	+1·9	68	29,30	77·1	89·5	71·3	78·3	23·9	—	13·9	75	—	59
ARABIA																								
Muscat	20	1010·5	—	1008·8	1011·1	1009·5	89·5	—1·5	97	10	78·9	—1·0	76	4 days	81·5	85·9	75·8	78·6	27·7	—	26·1	69	—	71
Kuwait*	16	1013·0	—	1010·5	1013·5	1011·0	92·3	—	104	3	73·9	—	65	28	78·9	90·9	69·5	76·8	20·3	—	24·6	61	—	48

× Data not availab

* Observations recorded at 0500 hours G.M.T, instead o0300 hours G. M. T.

*Datarejected.

00 HRS. G. M. T. AND 1200 HRS. G. M. T.—OCTOBER, 1950

Cloud Amount (eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction—Number of Winds from :—																			
											0300 hrs. G.MT									1200 hrs. G.M.T.										STATIONS
Mean 3 hrs. G. M. T.	Departure from normal	Mean 12 hrs. G. M. T	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	NW	N	NE	E	SE	S	SW	W	NW	Calm		
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	
			"	"	"																									SIND (Lower)
0·2	—	0·0	0·00	—	0·00	—	0	—	4·6	—	1	0	0	0	16	9	3	2	0	0	0	0	0	0	17	11	3	0		Umarkot.
0·3	—0·2	0·0	0·00	—0·03	0·00	—	0	—0·1	3·7	—0·7	1	0	0	0	0	19	0	0	11	2	0	1	0	2	23	0	0	3		Hyderabad.
1·2	—	0·4	0·00	—	0·00	—	0	—	5·3	—	3	0	0	0	0	1	8	0	19	0	0	0	0	3	15	13	0	0		Karachi (Drigh Road).
1·0	—0·4	0·7	0·00	—0·02	0·00	—	0	—0·1	1·7	—1·0	0	0	0	0	0	2	8	2	19	0	0	0	0	0	11	19	1	0		Karachi (Manora)
0·0	—1·0	0·0	0·00	—0·03	0·00	—	0	—0·1	2·0	—	2	0	0	0	1	9	5	3	11	1	0	0	0	4	10	6	10	0		Badin.
																														HILL STATIONS (excluding Kashmir and Baluchistan).
0·8	—0·3	1·3	2·03	+0·47	1·67	14	2	—0·7	4·2	+0·6	3	3	1	1	0	1	10	4	8	0	2	3	1	0	0	8	2	15		Murree.
0·1	—0·8	0·3	0·31	—0·25	0·31	14	1	—0·3	4·5	—0·6	6	0	0	2	4	2	7	6	4	0	0	1	9	20	0	1	0	0		Cherat.
0·2	—1·2	1·9	0·28	—0·99	0·15	3	1	—2·1	2·1	+0·1	0	0	0	0	0	0	0	0	31	0	0	1	1	1	14	11	0	3		Drosh.
0·2	—0·7	2·1	0·00	—0·95	0·00	—	0	—2·5	2·9	+0·7	1	4	1	0	0	0	0	4	21	0	1	2	20	6	1	0	1	0		Parachinar.
0·0	—0·3	0·2	0·00	—0·12	0·00	—	0	—0·3	2·5	—	0	0	0	2	10	6	0	0	13	0	1	7	20	2	1	0	0	0		Wana.
																														AFGHANISTAN
0·1		1·0	0·00	—	0·00	—	0	—	0·5	—	0	0	0	0	0	0	5	0	26	0	0	8	1	0	0	2	0	20		Jalalabad.
0·1	—0·8	1·1	0·00	—0·40	0·00	—	0	—0·8	2·9	+1·1	3	1	0	0	4	8	9	6	0	10	12	3	3	2	0	0	0	1		Kabul.
0·0		0·0	0·00	—	0·00	—	0	—	0·8	—	0	0	0	0	0	0	0	0	31	0	0	0	0	0	5	0	2	24		Kandahar.
											*	*																		IRAN
1·0	+0·3	0·6	0·00	—0·12	0·00	—	0	—0·2	4·9	—1·3	9	7	7	0	1	1	1	4	1	0	0	0	0	6	9	15	1	0		Jask.
																														ARABIA
0·0	—0·6	0·0	0	—0·14	0·00	—	0	—0·2	3·0	+0·2	1	0	0	0	5	1	9	4	11	1	4	0	1	0	0	1	14	10		Muscat.
(a) 0·0	—	(a)	(a)	—	0·00	—	0	—	(a)	—	(b) 2	1	0	0	1	5	9	9	2	(a) 2	1	14	1	0	0	3	9	0		Kuwait*

(a) mean of 30 days. (b) mean of 29 days.
*Record at 0500 hrs. G.M.T. instead of 0300 hrs. G.M.T.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS—OCTOBER 1950

STATIONS	Maximum temperature °F				Minimum temperature °F				Mean dry bulb temperature 0300 hrs. G.M.T. °F	Mean wet bulb temperature 0300 hrs. G.M.T. °F	Vapour Pressure millibars		Relative humidity %		Mean cloud amount 0300 hrs. G.M.T.	Precipitation						Wind	
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date			Mean 0300 hrs. G.M.T.	Departure from normal	Mean 0300 hrs. G.M.T.	Departure from normal		Total of the Month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10 in. or more	Departure from normal	Resultant direction 0300 hrs. G.M.T.	Velocity in
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
EAST PAKISTAN (*North*)																							
Pabna	88·8	—1·5	95	15	×				81·3	76·9	29·1	—0·3	80	+2		8·68	+4·29	2·49	25	8	+2·5		
KASHMIR																							
Jammu ×																							
Korgil ×																							

× Data not available.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0900 HRS. G.M.T. AT 5TH CLASS STATIONS—OCTOBER 1950

DIVISION	STATION	PRECIPITATION					
		Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal
1	2	3	4	5	6	7	8
AST PAKISTAN (*North*)	Rajshahi	3·05	+0·72	1·60	28	3	—1·5
	Rangpur	7·43	+1·61	4·30	21	5	+0·5
KASHMIR	Sonamarg ×						
	Gurez ×						
BALUCHISTAN (*North*)	Harnai	0·00	—0·23	0·00	—	0	—0·4

× Data not available.

GPPK—H6 Met. Deptt.—23-9-55—200

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PAKISTAN WEATHER REVIEW, 1950

Monthly Weather Report

November

Published by the authority of the Government of Pakistan

Chief Features :—(1) A post-monsoon storm from the Bay of Bengal which caused locally heavy downpours in East Pakistan on the 19th and considerable damage to crops.

(2) Incursion of cold continental air into West Pakistan in the rear of a Western disturbance.

West Pakistan.—A low moving across the extreme north of West Pakistan caused isolated thundershowers over the hills of the upper North-West Frontier Province on the 2nd and 3rd.

Cold and dry continental air swept over west Pakistan in the wake of an occluded western disturbance which moved eastwards across the extreme north of West Pakistan on the 10th.

A feeble western disturbance moving similarly caused scattered rain/drizzle over the North-West Frontier Province and north-east Baluchistan on the 28th while simultaneous passage of another low across north-east Baluchistan and adjoining areas was also responsible for : (i) scattered dust-storms/dust-raising winds in north Baluchistan on the 28th and 29th and (ii) considerable fall in night temperatures in north Baluchistan on the 29th.

Drosh and Parachinar reported 1/4″ of rain each on the 28th.

Night temperatures were markedly to considerably below normal in north Baluchistan from the 12th to 18th and the 26th in west Baluchistan on the 11th, in the south Punjab on the 13th and 30th and in upper Sind on the 25th.

The mean actual rainfall during the month was in large defect in north Baluchistan. No rain fell elsewhere. Averaged rainfall over the plains of West Pakistan it was in large defect.

The mean maximum temperature was normal outside Baluchistan where it was below normal. The mean minimum temperature was normal in the north Punjab, the lower North-West Frontier Province and lower Sind and below normal else where. The mean relative humidity was in excess in the north Punjab, normal in the south Punjab, the lower North-West-Frontier Province north Baluchistan and Sind and in defect in the upper North-West Frontier province and south Baluchistan. Skies were less clouded than usual over the region except upper Sind where they were normally clouded.

East Pakistan :—The presence of a low over central Burma in the first half of the first week caused the incursion of maritime air into the Eastern and the Deltaic sub-divisions of East Pakistan. Khulna recorded 1-1/2″ of rain on the 2nd ; Chittagong 2″ and Satkhira 1-1/2″ on the 4th.

The chief feature of the month however, was a post-monsoon storm in the Bay of Bengal moving north-eastwards and crossing Sunderbans coast.

A depression appeared in the south and the adjoining central Bay on the 16th, shifted north-eastwards and developed into a cyclonic storm by 0600 GMT. on the 17th, near latitude 20° N and longitude 89° E. On the night of the same day it was responsible for grounding the British freighter S.S. Skeldergate, near False Point Orissa coast. It was considered a total loss with its cargo of wheat. It crossed Sunderbans Coast on the night of the 18th and moving north-eastwards through East Pakistan and the adjoining West Bengal, weakened into a depression and eventually filled up over north eastern districts of East Pakistan and the adjoining Assam on the 20th. Under its influence widespread rainfall occurred in East Pakistan from the 18th to 20th, with heavy downpours on the 19th.

Chief amounts of rainfall recorded during the month were :—Jessore 2″ on the 18th ; Comilla 7″, Narayanganj and Satkhira 6″each, Brahmanbaria and Faridpur 5″ each, Srimangal and Sirajganj 4″ each, Khulna 3″, Cox's Bazar and Jessore 2″ each on the 19th.

According to newspaper reports Dacca experienced torrential rain resulting in a sharp fall in the temperature. Telephone wires were reported to have been disconnected in most parts of the city. The cyclonic winds and rain which lashed parts of East Pakistan and West Bengal interrupted air services passing through Dacca as well as Calcutta. Considerable damage was caused to standing paddy crops in Jessore and Faridpur districts.

The mean actual rainfall was inlarge excess over all the sub-divisions as well as the region as a whole. The mean maximum and minimum temperatures were normal except the Northern sub-division where the mean minimum temperature was below normal. The mean relative humidity was normal over all the sub-divisions. Skies were more clouded than usual in the Deltaic sub-division and normally clouded in the Northern and the Eastern sub-divisions.

Table I contains the Divisional and Sub-divisional means of rainfall, temperature, humidity and cloud for the 5 chief divisions and 12 sub-divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

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TABLE I.—DIVISIONAL AND SUB-DIVISIONAL MEANS—NOVEMBER 1950

DIVISION	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour Pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb	%	
1. East Pakistan	4·01	1·13	+2·88	+255	—0·7	—0·2	—0·6	0	+0·2
Mean of East Pakistan...	4·01	1·13	+2·88	+255	—0·7	—0·2	—0·6	0	+0·2
2. Punjab	0·00	0·11	—0·11	—100	—0·9	—1·8	—0·3	+8	—0·4
3. N.-W.F.P.	0·00	0·21	—0·21	—100	—0·2	—1·3	—1·2	—5	—0·7
4. Baluchistan	0·01	0·10	—0·09	—90	—2·6	—3·9	—1·0	—6	—0·7
5. Sind	0·00	0·07	—0·07	—100	+0·2	—1·6	—1·5	+1	—0·4
Mean of West Pakistan excluding Baluchistan ...	0·00	0·11	—0·11	—100	—0·4	—1·6	—0·9	+3	—0·5
SUB-DIVISION									
1. East Pakistan (North)	1·41	0·59	+0·82	+139	+0·4	—2·1	—1·3	—4	—0·1
2. East Pakistan (East)	5·27	1·57	+3·70	+236	—0·8	+0·2	—0·2	+1	+0·1
3. East Pakistan (Deltaic)	5·71	1·18	+4·53	+384	—1·4	0·0	—0·6	+1	+0·5
4. Kashmir*									
5. North Punjab	0·00	0·14	—0·14	—100	—0·5	—1·4	—0·2	+11	—0·5
6. South Punjab	0·00	0·06	—0·06	—100	—1·4	—2·2	—0·4	+4	—0·3
7. N.-W.F.P. (Upper)	0·00	0·31	—0·31	—100	+0·2	—2·4	—0·4	—8	—1·2
8. N.-W.F.P. (Lower)	0·00	0·15	—0·15	—100	—0·5	—0·7	—2·0	—3	—0·4
9. Baluchistan (North)	0·01	0·13	—0·12	—92	—2·7	—4·3	—0·6	—2	—0·7
10. Baluchistan (South)	0·00	0·02	—0·02	—100	—2·4	—3·2	—2·1	—13	—0·5
11. Sind (Upper)...	0·00	0·03	—0·03	—100	—0·4	—2·7	—1·5	+3	+0·1
12. Sind (Lower)...	0·00	0·11	—0·11	—100	+0·5	—0·6	—1·4	0	—0·8

*Data incomplete.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS	Height of bar. cistern above M.S.L. in feet	Pressure at Station level in millibars			Pressure at M.S.L. or nearest GPKM level Millibars		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure, Millibars			Relative humidity %		
		Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean	Departure from normale	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0300 hrs G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G.M.T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
EAST BENGAL (North)																								
Sirajganj	48	1010·4	...	1007·4	1012·1	1009·1	82·4	...	90	4	63·3	...	53	29	73·1	77·0	68·4	70·8	21·8	...	23·2	78	—	74
Bogra	63	1011·3	—1·8	1007·6	1013·5	1009·8	83·3	+0·9	91	2,3,4	62·2	—0·6	52	30	71·4	76·2	66·1	68·2	19.0	—1·4	19·8	74	—3	66
Dinajpur	123	1010·1	—1·3	1006·3	1014·3	1010·5	84·9	+2·4	93	1	57·4	—3·6	48	28	71·3	72·6	64·6	65·9	17·8	—1·6	19·3	69	—8	69
EAST BENGAL (East)																								
Cox's Bazar ...	38	1011·5	—1·2	1008·5	1012·8	1009·9	84·1	—0·3	90	1,2,6	67·7	+0·6	57	29,30	76·0	76·8	71·0	71·1	23·7	—1·2	23·9	77	0	75
Chittagong	87	1009·9	—1·8	1006·7	1013·0	1009·7	83·2	—0·4	89	1	65·5	0·0	57	29,30	74·9	75·1	69·9	69·8	22·8	—0·6	22·1	77	—4	75
Comilla	27	1011·6	—2·3	1008·7	1012·6	1009·7	80·2	—3·8	87	4	65·6	+1.5	55	30	72·9	75·0	68·7	70·7	22·4	—0·8	23·5	80	+5	79
Narayanganj ...	26	1011·2	—2·8	1007·8	1012·1	1008·7	84·3	+0·4	93	1	65·1	—1·0	56	30	75·4	74·5	69·1	68·3	20·9	—1·0	21·5	72	—2	72
Brahmanbaria ...	32	1012·2	...	1008·9	1013·3	1010.0	84·3	—0·9	91	2,3,4	65·3	—0·3	53	28	75·7	77·4	[illegible]	71·6	23·0	—0·1	23·2	74	+4	75
Srimangal	69	1010·8	—2·0	1007·7	1013·3	1010·2	83·0	—2·5	90	1,2,3	60·1	+0·5	50	30	72·4	70·9	69·3	68·8	22·9	+1·5	23·1	85	+2	92
Mymensingh ...	62	1011·2	—2·0	1008·3	1013·4	1010·5	84·5	+1·6	90	1,5	64·8	[illegible]	57	29,30	72·6	77·8	68·4	70·0	22·4	+0·6	21·4	80	+1	68
EAST BENGAL (Deltaic)																								
Faridpur	46	1011.8	—1.5	1008.2	1013·4	1009·8	76·6	—5·7	85	4	64·2	+0·2	54	30	73·6	75·0	68·3	69·3	21·3	—0·6	22·1	74	—3	73
Barisal	11	1012.7	—1.6	1009.5	1013·1	1009·9	82·7	—0·5	91	1,2,3	65·8	+0·2	55	30	73·2	75·9	68·6	69·5	21·8	—1·5	21·7	78	+3	72
Khulna	16	1013.3	—1.4	1009.8	1013·9	1010·3	82·3	—1·2	90	1,2,3	65·3	—0·3	57	4 days	74·5	73·9	67·6	68·0	20·2	—0·4	20.7	69	+2	72
Jessore	26	1012.5	—1.9	1009.5	1013·4	1010·4	81·6	—2·6	92	1	60·6	—0·2	50	29,30	71·9	73·8	67·4	69·0	21·0	+0·1	21·9	78	+4	77
Satkhira	16	1012.4	—2.1	1009·0	1013·0	1009·6	81·8	—3·4	90	1	63·1	—0·1	53	29,30	72·8	75·1	66·6	69·6	19·9	—0·9	22·1	74	+1	74
KASHMIR																								
Srinagar ×	5,205																							
Gulmarg ×	8,709																							
Dras ×	10,059																							
Leh ×	11,529																							
Skardu ×	7,505																							
Gilgit ×	4,890																							
Misgar	10,190	700·9	...	698·8	704·5	702·5	*				*				21·9	33·0	19·1	25·8	2·6	...	2·6	68	...	42
NORTH PUNJAB																								
Lahore	702	990·0	—1·3	988·1	1015·4	1012·7	81·0	—1·9	89	1,2	47·4	+0·1	39	27	55·2	73·0	51·4	61·8	11·2	+0·4	13·8	77	+14	50
Sialkot ×	830	...	...	...	...	...	...	...	...	...	...	...							...	...	...	...		...
Jhelum	765	988·3	...	985·7	1016·2	1012·3	81·4	...	90	1	44·7	...	39	22	52·1	73·1	48·7	61·4	10·2	...	13·3	77	—	48
Rawalpindi	1,674	956·2	—2·2	954·3	1016·8	1012·3	78·5	+0·8	87	2	42·4	—2·0	36	27	48·7	67·9	44·1	54·4	8·1	—0·3	9·2	69	+7	45
Khushab	616	992·9	—2·2	990·8	1015·4	1012·2	82·4	—0·4	92	1	47·3	—2·5	41	30	53·2	77·4	46·6	60·2	7·9	—0·4	10·2	57	+6	31
Lyallpur	605	992·8	—1·9	991·0	1014·9	1012·1	81·6	—0·4	90	1	47·8	—1·3	41	27	50·0	74·9	74·0	59·3	9·6	—0·5	10·2	79	+17	35
SOUTH PUNJAB																								
Montgomery ...	558	995·3	—1·3	993·3	1015·3	1012·7	82·2	—1·2	92	1,4	47·1	—4·5	40	2	57·2	78·4	50·8	62·7	9·8	—1·3	12·4	60	—4	37
Multan P.B.O. ...	413	1000·9	...	998·5	1015·7	1012·5	82·4	...	93	1	46·3	...	38	30	53·3	78·1	46·9	58·6	8·1	...	8·1	59	...	25
Fort Abbas ...	475	997·7	...	994·9	1014·9	1011·5	84·4	...	94	1,2	47·4	...	39	28,30	56·6	77·3	*	*	*	...	*	*	...	*
Bahawalpur	384	1001·2	—1·1	998·9	1015·2	1012·2	83·9	—1·5	94	2	49·6	—1·0	43	30	54·3	78·3	49·8	65·9	10·2	—0·6	16·2	67	+6	46
Khanpur	297	1004·3	—1·0	1002·0	1015·1	1012·2	85·5	—1·5	95	1	50·2	—1·2	41	23	55·7	81·1	50·9	64·2	10·5	+0·8	12·8	68	+11	35

× Data not available. (R) Register not Received. *Data rejected.

G.M.T. AND 1200 HRS. G.M.T., NOVEMBER 1950

Cloud Amount (eighths of sky)			Precipitation						Wind Velocity Knots		Wind Direction—Number of Winds from :—																			
											0300 hrs. G.M.T.									1200 hrs. G.M.T.										
Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0·10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	STATIONS
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																													EAST BENGAL (North)
1·9	...	1·9	3·98	+3·29	3·69	19	2	+1·2	1·8	...	0	0	0	0	0	0	0	0	30	0	0	1	0	0	0	0	0	29	Sirajganj.
1·9	+0·5	2·2	0·73	—0·04	0·45	19	2	+1·2	1·5	+0·6	5	4	5	0	0	2	7	4	3	1	0	1	0	0	1	5	0	22	Bogra.
0·7	—0·6	0·9	0·00	—0·44	0·00	—	0	—0·6	1·0	—0·1	1	1	0	1	0	0	4	0	23	1	0	0	0	0	0	0	0	29	Dinajpur.
																													EAST BENGAL (East)
2·2	—0·5	1·4	3·47	+0·21	1·90	19	4	+0·9	1·0	—0·1	6	0	0	0	2	1	1	0	20	1	0	0	0	1	0	0	2	26	Cox's Bazar.
3·1	+0·5	2·1	4·71	+2·54	2·42	4	4	+2·0	3·0	—0·1	5	13	10	0	1	0	0	0	1	10	1	1	1	1	2	4	10	0	Chittagong.
2·5	+0·8	2·1	10·15	+8·86	9·20	19	2	+0·4	1·8	+0·7	4	7	2	4	4	1	0	3	5	5	1	1	2	1	2	2	4	12	Comilla.
2·5	+0·4	2·3	6·98	+6·03	5·62	19	4	+2·7	1·2	+0·1	2	2	8	1	0	1	3	13	0	0	1	1	0	2	1	3	2	20	Narayanganj.
1·8	—0·4	1·4	5·91	+4·87	5·45	19	2	+0·5	1·7	...	6	3	1	0	2	2	0	1	15	1	0	0	0	0	1	0	0	28	Brahmanbaria.
2·3	+0·3	1·8	4·06	+2·65	3·77	19	2	+0·3	0·7	—0·5	2	3	1	0	2	1	2	0	19	1	1	2	0	0	1	0	0	25	Srimangal.
1·5	—0·4	1·1	1·60	+0·72	1·40	19	2	+1·0	0·5	+0·1	1	0	1	3	0	0	0	0	25	0	0	0	2	0	0	0	0	28	Mymensingh.
																													EAST BENGAL (Deltaic)
2·1	+0·7	2·8	6·48	+5·38	4·98	19	2	+0·6	2·2	+0·8	3	4	3	11	1	0	0	0	8	1	1	2	4	1	0	0	0	21	Faridpur.
2·7	+0·9	3·0	4·54	+3·00	2·80	19	4	+2·3	2·2	+1·1	10	4	0	0	1	0	3	10	2	0	2	0	0	0	2	1	9	16	Barisal.
2·0	—0·2	2·4	6·95	+5·83	2·86	19	5	+3·2	2·1	+0·5	9	10	1	0	1	0	6	2	1	3	1	0	0	1	1	2	5	17	Khulna.
2·1	+0·5	2·2	4·89	+3·94	2·32	19	3	+1·9	1·9	+0·9	9	2	2	1	1	0	2	6	7	0	2	1	0	2	0	0	1	24	Jessore.
2·9	+0·7	3·5	7·26	+3·65	3·67	19	5	+3·8	1·5	+0·6	10	2	1	0	0	5	1	9	2	2	0	1	1	0	0	0	4	22	Satkhira.
																													KASHMIR
																													Srinagar ×
																													Gulmarg ×
																													Dras ×
																													Leh ×
																													Skardu ×
																													Gilgit ×
2·6	...	3·4	0·34	...	0·31	3	1	...	3·0	...	0	0	2	0	0	0	8	1	19	0	0	12	2	0	0	2	0	14	Misgar.
																													NORTH PUNJAB
0·5	—0·6	0·7	0·00	—0·10	0·00	—	0	—0·3	1·4	+0·6	1	0	0	1	0	0	2	3	23	1	0	0	0	0	0	2	4	23	Lahore.
																													Sialkot. ×
0·9	...	0·8	0·00	0	0·00	—	0	...	1·0	...	0	0	0	0	0	0	0	1	29	0	0	0	2	0	2	0	1	25	Jhelum.
0·7	—0·5	0·7	0·00	—0·28	0·00	—	0	—0·5	1·4	+0·3	0	1	0	0	0	0	1	0	28	0	0	0	0	1	0	4	0	25	Rawalpindi.
0·6	—0·5	0·4	0·00	—0·08	0·00	...	0	—0·2	2·6	+0·6	2	8	2	2	2	3	1	1	9	2	4	3	1	5	1	6	2	6	Khushab.
1·0	—0·3	0·6	0·00	—0·11	0·00	—	0	—0·2	1·8	+0·7	0	2	0	4	2	1	5	3	13	0	0	2	2	0	1	8	2	15	Lyallpur.
																													SOUTH PUNJAB
0·2	—0·6	0·3	0·00	—0·05	0·00	—	0	—0·2	0·3	—1·4	0	0	0	6	0	5	0	7	12	0	0	0	0	0	7	2	1	20	Montgomery.
0·6	...	0·6	0·00	...	0·00	—	0	...	1·1	—	0	2	0	0	1	0	0	1	26	0	0	1	1	1	1	0	0	26	Multan
0·5	...	0·5	0·00	...	0·00	—	0	...	3·1	—0·4	0	2	6	6	3	(g) 2	0	1	4	5	7	0	0	(b) 0	8	0	9	0	Fort Abbas.
0·5	—0·4	0·3	0·00	—0·01	0·00	...	0	0·0	0·8	—0·5	1	3	1	0	5	0	0	1	19	1	0	0	0	0	0	0	0	29	Bahawalpur.
0·8	+0·2	0·7	0·00	—0·12	0·00	—	0	—0·1	2·5	—0·3	5	2	0	0	3	2	3	4	11	3	2	0	0	1	3	2	0	19	Khanpur.

(b) Mean of 29 days. (g) Mean of 24 days. X Date not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS	Height of bar. cistern above M. S. L. in feet.	Pressure at station level in millibars			Pressure at M.S.L or nearest GPKM level millibars		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure millibars			Relative humidity %		
		Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
N.-W.F.P. (Upper)																								
Chakdara	2,197	938·2	...	935·7	1017·9	1011·8	73·6	...	84	1	41·7	...	36	22	45·9	67·0	40·3	54·1	6·3	...	9·1	60	...	39
Peshawar	1,175	974·4	—1·8	972·0	1016·7	1012·8	77·0	+0·2	86	2	46·5	—2·4	40	30	52·5	69·3	44·5	54·8	6·8	—0·4	8·9	45	—8	33
Landikotal	3,503	895·9	...	894·3	901·1	899·2	67·8	...	77	1	39·8	...	31	26,27	49·4	62·4	39·6	47·9	4·4	...	5·6	37	...	30
N.-W.F.P. (Lower)																								
Bannu	1,263	970·5	...	968·3	1015·6	1012·0	79·1	—1·1	88	1	49·1	—0·8	43	30	52·4	72·1	*	*	*	...	*	*	...	*
Miranshah*	3,026	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
D. I. Khan	570	994·8	—1·5	992·5	1015·6	1012·4	82·1	+0·2	91	1	48·1	—0·6	45	6 days	51·2	76·6	45·6	62·1	7·9	—2·0	12·5	63	—3	40
BALUCHISTAN (North)																								
Fort Sandeman ...	4,614	861·3	—2·1	860·1	902·3	899·5	69·2	—1·5	79	2	38·8	—2·3	33	21,30	44·6	67·4	34·0	47·7	2·7	—1·4	3·3	*	...	*
Hindubagh	5,950	823·0	...	821·1	800·5	798·6	65·4	...	75	1	34·9	...	25	16	43·8	59·3	35·4	42·2	4·3	...	3·2	33	...	9
Loralai	4,699	858·4	...	856·6	902·4	898·7	69·7	...	78	2	39·8	...	33	29,30	41·1	63·8	31·6	44·0	2·3	...	2·1	25	...	11
Sibi	441	1000·7	+0·9	997·9	1015·4	1011·7	86·0	—0·4	95	1	49·5	—3·6	42	30	55·2	82·6	46·2	61·5	6·6	+0·2	9·5	44	+8	24
Quetta	5,490	836·4	—1·1	832·7	797·9	797·7	61·1	...	69	1,2,8	26·5	...	17	26	44·8	57·5	39·0	45·8	4·2	—0·2	6·4	60	+5	41
Quetta (Samungli) ...	5,253	845·5	...	843·3	799·6	800·0	62·4	...	70	1,2	21·8	...	15	16	30·1	59·3	27·0	47·6	3·9	...	7·3	72	...	42
Chaman	4,311	873·8	+0·4	871·4	905·0	901·9	65·2	—2·4	79	7	38·6	—4·8	25	25	43·2	60·4	37·0	45·5	4·9	0·0	4·2	39	—3	27
Nushki (R)	3,412	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kalat	6,616	802·9	—0·4	801·4	800·3	798·9	60·1	—3·6	68	1	26·3	—4·3	18	26,30	32·8	55·5	30·9	46·0	5·2	+1·7	7·2	*	...	*
Dalbandin	2,785	923·2	+0·8	920·8	903·9	902·6	71·9	—4·4	81	1,8,9	35·1	—5·4	25	26	40·4	69·4	33·7	53·8	3·9	—1·0	7·7	45	—2	32
Nokkundi	2,229	941·0	...	938·9	1020·6	1014·4	76·2	—3·8	89	1	44·3	—5·4	37	30	49·0	74·0	36·6	54·2	2·4	—3·3	6·7	25	—17	12
BALUCHISTAN (South)																								
Las Bela	292	1004·9	—0·5	1001·9	1015·2	1011·8	90·9	—2·0	98	4,5	50·5	—3·0	41	23,30	68·6	85·4	55·3	66·3	9·4	—2·2	14·0	36	—15	33
Ormara	15	1014·6	...	1012·1	1015·1	1012·3	84·5	—1·2	93	3,4,7	61·0	—2·8	55	18,27	69·9	82·2	62·2	70·2	15·8	—2·0	19·6	66	—7	53
Pasni (R)	10																							
Turbat	510	999·3	...	996·0	1017·5	1013·3	87·5	...	98	1	55·9	...	50	18,19	63·9	85·8	51·4	63·2	7·4	...	10·1	33	...	24
Panjgur	3,177	908·3	—0·4	906·2	902·4	900·6	71·2	—4·7	82	1	41·8	—3·8	36	14,18,30	45·4	68·9	36·0	49·6	3·3	—2.1	4·3	32	—17	17
SIND (Upper)																								
Reti	280	1005·9	...	1003·5	1016·2	1013·3	85·5	...	91	1	47·1	...	40	30	52·4	82·7	46·8	63·0	8·3	...	11·2	63	...	28
Jacobabad	183	1008·7	—0·9	1006·1	1015·4	1012·5	85·8	—0·1	95	1	52·8	—1·7	46	19	58·9	82·6	51·0	65·5	9·2	—2·0	13·9	56	—2	37
Sukkur	221	1006·8	—1·3	1004·5	1014·8	1012·2	85·5	—0·7	97	1	54·5	—3·6	48	26,30	59·2	80·9	53·3	63·2	11·1	—1·0	11·9	65	+7	34
Pad Idan	153	1009·3	...	1007·0	1014·9	1012·2	85·8	...	94	1	47·5	...	40	30	53·6	83·4	49·5	65·8	10·5	...	13·9	73	...	35
SIND (Lower)																								
Umarkot (R) ...	55																							
Hyderabad	96	1011·4	—0·9	1008·9	1015·1	1012·2	88·6	—0·2	99	2·3	58·4	—0·4	51	30	62·2	84·6	53·9	62·4	10·2	—1·8	9·8	55	0	23
Karachi (Drigh Road)	73	1012·2	...	1009·5	1014·9	1012·0	87·8	...	95	4	56·8	...	53	11,30	62·6	83·5	55·0	66·5	11·7	...	14·2	58	...	38
Karachi (Manora) ...	13	1014·2	—1·0	1012·3	1014·7	1012·2	84·8	—0·4	92	15	66·1	—0·8	61	30	68·8	80·5	61·7	70·6	15·6	—0·4	20·9	65	—1	59
Badin	31	1013·1	—0·7	1010·4	1014·2	1011·5	92·4	+2·2	100	1	*	...	...	...	61·9	86·7	54·8	63·8	11·7	—2·1	10·0	61	+1	23

(R) Register not received. * Data rejected.

AND 1200 HRS G.M.T NOVEMBER 1950—*contd.*

Cloud Amount (Eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction—Number of winds from :—																			
											0300 hrs. G.M.T.									1200 hrs. G.M.T.										
Mean 0300 hrs. G. M. T	Departure from normal	Mean 1200 hrs. G. M. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0·10" or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	STATIONS
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																													N.-W.F.P. (Upper)
0·5	...	0·6	0·00	...	0·00	...	0	...	3·1	...	1	1	0	0	3	9	1	0	15	2	8	5	2	1	0	0	0	12	Chakdara.
1·0	—1·2	1·5	0·00	—0·31	0·00	...	0	—0·4	2·2	+1·3	1	0	0	3	5	14	1	0	6	5	3	0	4	1	0	0	4	13	Peshawar.
0·8	...	0·9	0·00	...	0·00	...	0	...	2·0	...	0	0	1	5	0	0	0	7	17	1	4	0	6	0	1	0	13	5	Landikotal.
																													N.-W.F.P. (Lower)
0·7	—0·3	1·2	0·00	—0·16	0·00	...	0	—0·2	2·4	...	0	1	1	0	0	0	14	8	6	0	1	2	14	2	2	0	0	9	Bannu.
																													Miranshah.*
0·5	—0·5	0·4	0·00	—0·15	0·00	...	0	—0·3	1·0	+0·5	1	6	0	0	0	3	1	4	15	1	0	0	0	0	0	0	0	29	D.I.Khan.
																													BALUCHISTAN (North)
0·4	—0·6	0·8	0·00	—0·13	0·00	...	0	—0·2	2·4	+1·3	0	0	0	0	1	0	0	0	29	0	0	0	0	1	1	1	1	26	Fort Sandeman
0·4	...	0·9	0·00	...	0·00	...	0	...	6·8	...	0	0	0	0	1	7	18	1	3	0	0	4	0	0	15	7	0	4	Hindubagh.
0·5	...	0·9	0·00	—0·16	0·00	...	0	—0·5	4·8	...	0	0	0	1	1	9	14	1	4	0	1	1	3	8	3	1	2	11	Loralai.
0·7	—0·5	0·8	0·00	—0·02	0·00	...	0	—0·1	1·6	—0·1	0	1	0	0	0	0	1	3	25	0	0	2	3	3	11	7	2	2	Sibi.
0·7	—0·5	1·3	0·00	...	0·00	...	0	...	3·0	+1·5	2	4	2	2	4	1	0	0	15	18	0	0	0	0	0	3	7	2	Quetta.
0·6	...	0·9	0·00	...	0·00	...	0	...	3·1	...	0	0	6	4	0	0	2	5	13	0	0	0	0	0	1	6	23	0	Quetta (Samungli).
0·3	—0·7	1·0	0·12	—0·11	0·12	28	1	+0·3	3·8	+0·3	0	2	15	7	1	0	0	0	5	0	0	1	0	0	7	10	11	1	Chaman.
																													Nushki (R).
0·4	—0·6	0·7	0·00	—0·23	0·00	...	0	—0·8	5·1	+1·7	0	0	0	28	1	0	0	0	1	2	0	0	0	1	0	0	27	0	Kalat.
0·5	—0·5	0·8	0·00	—0·06	0·00	...	0	—0·2	3·4	+1·0	2	16	1	3	0	0	0	0	8	0	4	15	7	0	1	1	2	0	Dalbandin.
0·0	—1·6	0·0	0·00	—0·03	0·00	...	0	—0·1	3·1	—1·4	9	6	2	0	0	0	0	7	6	5	1	3	7	3	1	0	6	4	Nokkundi.
																													BALUCHISTAN (South)
0·0	—0·6	0·0	0·00	0·00	0·00	...	0	0	3·0	+1·4	1	0	1	0	0	0	0	2	26	0	0	3	4	1	3	1	0	18	Las Bela.
0·5	—0·7	0·5	0·00	0·00	0·00	...	0	0	4·4	+0·4	1	2	8	6	0	0	1	0	12	0	1	1	7	10	4	7	0	0	Ormara.
																													Pasni (R).
0·0	...	0·0	0·00	...	0·00	...	0	...	6·5	...	0	8	14	1	0	1	0	0	6	0	16	3	4	0	1	3	1	2	Turbat.
0·6	—0·3	0·9	0·00	—0·05	0·00	...	0	—0·2	3·8	—0·1	3	25	1	0	0	0	0	0	1	6	7	0	0	0	1	4	12	0	Panjgur.
																													SIND (Upper).
0·1	...	0·0	0·00	...	0·00	...	0	...	3·1	...	4	2	0	0	2	5	5	1	11	7	1	0	0	1	0	11	5	5	Reti.
0·7	0·0	0·6	0·00	—0·05	0·00	...	0	—0·1	3·2	+1·0	1	6	3	0	1	2	1	2	14	2	9	6	3	2	3	0	1	4	Jacobabad.
0·9	+0·3	0·7	0·00	0·00	0·00	...	0	0	2·0	—0·3	3	5	2	10	0	2	0	1	7	7	3	1	1	0	6	4	5	3	Sukkur.
0·3	...	0·5	0·00	...	0·00	...	0	...	3·2	...	2	2	3	0	0	2	2	10	9	8	6	2	0	4	2	0	7	1	Pad Idan.
																													SIND (Lower)
																													Umarkot (R).
0·2	—0·6	0·1	0·00	—0·06	0·00	...	0	—0·1	2·2	—0·8	12	2	0	1	0	4	0	0	11	11	8	0	1	1	6	0	0	3	Hyderabad.
0·6	...	0·1	0·00	...	0·00	...	0	...	3·3	...	11	3	0	0	0	0	1	2	13	0	0	0	1	2	18	7	0	2	Karachi (Drigh Road).
0·3	—0·9	0·3	0·00	—0·08	0·00	...	0	—0·3	3·5	—1·1	0	11	2	0	0	0	1	0	16	0	0	0	0	0	14	16	0	0	Karachi (Manora).
0·0	—1·0	0·0	0·00	—0·18	0·00	...	0	—0·4	2·7	...	14	1	0	1	0	1	2	5	6	10	1	2	0	0	1	0	9	7	Badin.

*Data rejected.

(R)—Register not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS	Height of bar. cistern above M.S.L. in feet	Pressure at stations level in millibars			Pressure at M.S.L. or nearest GPKM level millibars		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure Millibars			Relative humidity %		
		Mean 0300 hrs. G.M.T.	Departure from normal	Mean 0300 hrs. G.M.T.	Mean 0300 hr. G.M.T.	Mean 1200 hrs. G.M.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0300 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0300 hrs. G.M.T.	Mean 1200 hrs G.M.T.	Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
HILL STATIONS (Excluding Kashmir & Baluchistan)																								
Murree	7113	785·8	—1·7	785·2	797·9	797·1	57·7	—1·8	64	1	40·5	—0·5	33	26,28	45·3	49·2	35·9	40·1	3·9	—0·6	5·2	38	—2	44
Cherat	4272	871·8	—1·7	871·3	901·4	900·5	66·2	+0·8	75	1	48·1	—1·6	43	4 days	53·3	59·7	43·2	47·3	5·6	—0·1	6·2	40	—4	36
Drosh	4806	857·8	—1·4	854·5	905·0	900·3	63·2	—0·9	75	1	43·2	—0·4	35	29,30	44·9	57·1	36·0	41·5	3·6	—1·5	2·7	36	—17	19
Parachinar	5673	828·6	—1·4	827·2	797·5	797·1	65·1	+0·4	72	1	38·3	—1·0	30	26,30	43·8	60·0	×	×	...	...	...	...	...	...
Wana	4457	867·8	...	865·8	903·9	900·4	60·6	—9·5	75	1	34·4	—1·1	28	3 days	44·3	64·2	34·7	46·3	3·0	—1·2	3·4	29	—24	19
AFGHANISTAN																								
Jalalabad	1950	939·9	...	938·4	1008·8	1003·0	74·8	...	85	1	42·9	...	32	26	51·0	71·4	*	*	*	...	*	*	...	*
Kabul	5955	823·0	...	821·3	801·2	800·5	60·6	—0·5	70	1	30·3	—2.0	24	27,29	34·5	56·0	27·5	40·5	2·6	—1·0	2·4	41	—16	23
Kandahar	3462	900·4	...	898·3	904·1	901·7	68·8	...	80	1	26·6	...	18	26	32·0	61·9	29·9	50·5	4·0	...	7·9	79	...	43
IRAN																								
Jask	13	1014·5	...	1013·4	1014·9	1013·8	84·3	+0·1	92	3,11	65·7	—2·9	61	30	67·6	83·1	58·7	67·9	12·8	...	16·4	57	...	43
ARABIA																								
Muscat	20	1015·3	...	1013·2	1015·8	1014.0	81·7	—2·6	88	3,8	72·0	—1·8	67	30	73·5	79·4	65·5	69·5	17·9	...	20·1	63	...	58
Kuwait†	16	1017·0	...	1015·0	1017·8	1015·5	78·7	...	91	1	61·9	...	57	29	68·5	76·8	62·0	67·8	16·7	...	19·1	68	...	63

† Recorded at 0500 hrs. G.M.T. instead of 0300 hrs. G.M.T. *Data rejected.

TABLE III.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS, NOVEMBER 1950

STATIONS	Maximum temperature °F				Minimum temperature °F				Mean dry bulb temperature 0300 hrs. G.M.T. °F	Mean wet bulb temperature 0300 hrs. G.M.T. °F.	Vapour pressure millibars		Relative humidity %		Mean cloud amount 0300 hrs. G.M.T.	Precipitation				Days with 0·10" or more		Wind	
	Mean	Departure from normal	Higest	Date	Mean	Departure from normal	Lowest	Date			Mean 0300 hrs. G.M.T.	Departuer from normal	Mean 0300 hrs. G.M.T.	Departure from normal		Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Resultant direction 0300 hrs. G.M.T.	Velocity in knots
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
EAST PAKISTAN (North)																							
Pabna	83·5	~~-0·2~~ -2.0	93	2,3	×	...	...	...	73·3	67·6	20·5	—0·9	74	—1	...	2.89	+2·19	2·31	9	2	+1·0	...	...
KASHMIR																							
Jammu ×																							
Kargil ×																							

× Data not available.

G.M.T. AND 1200 HRS. G.M.T., NOVEMBER 1950—*concld.*

Cloud Amount (Eighths of sky)			Precipitation						Wind Velocity knots		Wind Direction—Number of Winds from :																				
											0300 hrs. G. M. T.									1200 hrs. G. M. T.											
Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days with 0·10" or more	Departure from Normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	STATIONS
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																													HILL STATIONS (Excluding Kashmir & Baluchistan).
1·4	—0·2	1·7	0·00	—0·73	0·00	...	0	—1·2	4·4	+1·1	1	4	7	4	0	0	5	0	9	0	2	4	3	0	0	10	1	10	Murree.
0·7	—0·7	0·5	0·00	—0·37	0·00	...	0	—0·6	7·6	+1·5	13	0	0	1	2	0	1	12	1	7	0	0	3	8	1	0	8	3	Cherat.
1·9	+0·2	2·8	0·55	+0·21	0·26	3	2	+0·8	1·6	0·0	0	0	0	1	0	0	0	0	29	0	1	3	7	4	1	1	0	13	Drosh.
1·0	—0·5	1·7	0·29	—0·11	0·29	28	1	—0·2	2·8	+1·0	6	2	2	0	0	0	1	2	17	0	1	1	18	6	0	2	0	2	Parachinar.
0·0	—0·8	0·2	0·00	—0·07	0·00	...	0	—0·2	2·5	...	0	2	0	1	0	10	0	1	16	0	3	2	9	2	7	1	3	3	Wana.
																													AFGHANISTAN
1·1	...	1·5	0·00	...	0·00	...	0	...	0·4	...	0	0	0	0	0	2	4	1	23	1	0	1	0	0	1	1	0	26	Jalalabad.
1·4	—0·6	2·4	0·29	—0·31	0·29	28	1	—0·5	3·2	+1·4	1	1	0	0	3	6	9	8	2	10	8	2	3	2	0	1	1	3	Kabul.
0·5	...	1·1	0·03	...	0·03	28	0	...	0·8	...	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	30	Kandahar.
																													IRAN
0·8	—0·6	1·7	0·10	—0·14	0·10	29	1	+0·5	3·4	—2·3	17	8	1	0	0	0	1	0	3	1	0	0	0	4	16	9	0	0	Jask.
																													ARABIA
0·1	—1·2	0·0	0·00	—0·39	0·00	...	0	—0·7	2·9	+0·2	0	0	0	0	5	12	8	1	4	0	0	0	0	0	13	0	8	9	Muscat.
2·0	...	2·3	0·65	...	0·31	25	2	...	3·2	...	(b) 1	4	1	1	0	8	8	5	1	2	1	15	3	0	0	2	7	0	Kuwait†.

†Recorded at 0500 hrs. G.M.T. instead of 0300 hrs. G.M.T. (b) Mean of 29 days.

TABLE IV.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 5TH CLASS STATIONS, NOVEMBER 1950

DIVISION	STATION	PRECIPITATION					
		Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0·10" or more	Departure from normal
1	2	3	4	5	6	7	8
		"	"	"			
EAST PAKISTAN (*North*)							
	Rajshahi	0·70	+0·17	0·40	19	2	+1·2
	Rangpur	0·16	—0·24	0·12	19	1	+0·5
KASHMIR							
	Sonamarg ×						
	Gurez ×						
BALUCHISTAN (*North*)							
	Harnai	0·00	—0·18	0·00	—	0	—0·3

× Data not available.

GIPRC—[illegible]

Registered No. s-1452.

PAKISTAN WEATHER REVIEW ~~1956~~ 1956

MONTHLY WEATHER REPORT

DECEMBER

Chief Features :—(1) Cold wave affected entire West Pakistan during the latter half of the month as a result of gradual southerly protrusion of a deep cold anticyclone over Russian Turkistan.

(2) Three active western disturbances which affected the extreme north of West Pakistan.

(3) Dry weather over East Pakistan.

West Pakistan :—During the first week three occluded western disturbances moved across north Baluchistan, the North-West Frontier Province and the north Punjab, but did not cause any weather except extensive clouding.

An occluded western disturbance moving through Iran appeared over northeast Baluchistan on the 8th, where scattered drizzle occurred. It moved away northeastwards through the north Punjab and Kashmir by the 11th. In its association rain/snowfall occurred over Murree hills and in its rear there was a marked to considerable fall in night temperatures over Baluchistan and Sind on the 10th and 11th.

The existence of an ample body of Polar air forming an intense and deep cold anticyclone over Russian Turkistan was evident on the 14th. On the next evening an occluded wave appeared bordering the North-West Frontier Province, which moved away eastwards by the evening of the 16th causing heavily clouded skies in the North-West Frontier Province. ~~it~~ It was being simultaneously followed by a cold front on which two occluded waves were apparent, one moving through northeast Iran and the second off Mekran coast. The low over northeast Iran was seen moving through Kashmir on the 17th while the secondary low off Mekran coast moved through north Arabian Sea into the Indian region on the evening of the 15th giving extensive clouding in lower Sind.

A western disturbance moving through Russian Turkistan was also responsible for causing thundershowers over Murree hills and rain/snowfall over the hills of the upper North-West Frontier Province on the 20th.

The gradual southerly protrusion of the deep anticyclone was responsible for the cold wave over the entire West Pakistan which appeared to be more intense between the 18th and 20th. Night temperatures remained below freezing point over West Pakistan outside Sind and the coastal strip of south Baluchistan practically till the close of the month. They were markedly to considerably below normal over the entire West Pakistan between the 18th and 20th (15° to 25°F below normal in north Baluchistan between the 17th and 21st) and again on the 22nd, 25th and 26th. They were also markedly to considerably below normal in West Pakistan outside the upper North-West Frontier Province and Sind-Mekran coast on the 23rd ; in the Punjab and Baluchistan between the 14th and 21st and on the 24th in upper Sind on the 24th and in the Punjab on the 27th.

According to available press reports the cold wave which gripped Karachi took a toll of 26 human lives on the 27th and 28th. In the Punjab it caused damage to crops and deaths on a large scale of infants, old men and women due to pneumonia.

Three feeble western disturbances which moved in rapid succession across the extreme north of West Pakistan caused extensive clouding during the period 21st to 25th and scattered rain/snowfall over the hills of the upper North-West Frontier Province on the 23rd.

No recordable rain fell over West Pakistan during the month.

The mean maximum temperature was normal except ~~over~~ the south Punjab and north Baluchistan where it was below normal. The mean minimum temperature was below normal over the entire region. The mean relative humidity was normal in the Punjab, Baluchistan and upper Sind and in defect elsewhere. Skies were normally clouded in south Baluchistan and Sind and less than usual in the Punjab, the North-West Frontier Province and north Baluchistan.

East Pakistan :— A cyclonic storm which crossed Arakan coast on the 6th in the neighbourhood of Akyab was responsible for extensive clouding on the 5th and 6th and drizzle at Cox's Bazar on the 6th. Weather remained dry thereafter.

The mean actual rainfall was nil. The mean maximum and minimum temperatures were normal over the region except the Northern sub-division of East Pakistan where the mean maximum temperature was above normal. The mean relative humidity was normal. Skies were more clouded than usual in the Northern sub-division and normally clouded elsewhere in East Pakistan.

Table I contains the Divisional and sub-divisional means of rainfall, temperature, humidity and cloud for the 5 chief divisions and 12 sub-divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

LIBRARY WEATHER BUREAU

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—DECEMBER, 1950

Division	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	Inches	Inches	Inches		°	°	mb	%	
1. East Pakistan	0·00	0·24	—0·24	—100	+1·0	+0·8	+0·5	—1	0·0
Mean of East Pakistan	0·00	0·24	—0·24	—100	+1·0	+0·8	+0·5	—1	0·0
2. Punjab	0·00	0·47	—0·47	—100	—1·3	—5·3	—1·9	0	—0·9
3. North-West Frontier Province	0·00	0·44	—0·44	—100	—0·2	—4·3	—2·3	—14	—1·6
4. Baluchistan	0·00	0·65	—0·65	—100	—3·3	—7·2	—2·2	—4	—1·3
5. Sind	0·00	0·13	—0·13	—100	—1·4	—4·8	—2·6	—5	—0·1
Mean of West Pakistan excluding Baluchistan ...	0·00	0·35	—0·35	—100	—1·1	—5·0	—2·2	—4	—0·7
SUB-DIVISION									
1. East Pakistan (North)	0·00	0·10	—0·10	—100	+2·0	+0·1	+0·4	—1	+0·3
2. East Pakistan (East)	0·00	0·40	—0·40	—100	+1·0	+0·9	+0·3	—2	—0·2
3. East Pakistan (Deltaic)	0·00	0·19	—0·19	—100	+0·4	+0·9	+0·9	+2	+0·1
4. Kashmir*									
5. North Punjab	0·00	0·62	—0·62	—100	—0·7	—5·1	—1·8	0	—0·9
6. South Punjab	0·00	0·20	—0·20	—100	—2·3	—5·5	—1·9	+2	—0·8
7. North-West Frontier Province (Upper)	0·00	0·67	—0·67	—100	+1·0	—4·9	—2·1	—18	—1·9
8. North-West Frontier Province (Lower)	0·00	0·32	—0·32	—100	—0·9	—3·6	—2·3	—13	—1·5
9. Baluchistan (North)	0·00	0·66	—0·66	—100	—3·7	—7·7	—2·2	—3	—1·5
10. Baluchistan (South)	0·00	0·64	—0·64	—100	—0·8	—4·6	—2·4	—5	0·0
11. Sind (Upper)	0·00	0·10	—0·10	—100	—1·1	—5·1	—2·3	—3	—0·1
12. Sind (Lower)	0·00	0·15	—0·15	—100	—1·7	—4·6	—2·7	—6	—0·1

*Data incomplete.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATIONS	Elevation of instrument	Pressure at station level, millibars			Pressure		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure millibars			Relative humidity %		
	Height of bar. cistern above mean sea level in feet.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G.M.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T	Departure from normal	Mean 1200 hrs. G. M. T.	Mean 0300 hrs. G. M. T.	Departure from normal	Mean 1200 hrs G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
EAST PAKISTAN (North)																								
Sirajgang	48	1014·6	—	1011·2	1016·4	1013·0	78·6	—	84	5, 6	55·7	—	48	15	64·7	69·0	61·5	64·9	17·6	—	19·3	82	—	80
Bogra	63	1014·5	—0·9	1010·6	1016·8	1012·8	79·4	+2·7	83	5,23,24	54·7	+0·2	47	14	63·2	73·1	59·6	64·0	15·8	+0·5	16·3	80	+4	69
Dinajpur	123	1013·2	—0·1	1009·6	1017·6	1013·9	80·0	+2·9	83	23, 24	50·6	—1·4	40	16	62·9	67·7	58·4	60·9	14·7	+0·2	15·2	75	—6	65
EAST PAKISTAN (East)																								
Cox's Bazar ...	38	1014·5	—0·2	1011·5	1015·9	1012·9	80·0	+0·3	84	4	58·4	—0·3	52	16	67·8	72·1	63·5	65·3	18·0	—1·0	17·9	77	—1	68
Chittagong ...	87	1013·3	—0·4	1010·1	1016·4	1013·2	80·0	+1·0	85	4	57·3	+0·1	51	15	67·8	70·7	62·8	63·7	17·4	—0·5	17·2	73	—9	66
Comilla	27	1015·6	—0·5	1012 0	1016·6	1013·0	76·1	—3·1	83	5,24	56·6	+1·8	50	16	65·5	71·1	62·3	65·6	17·6	+0·1	19·0	83	+6	74
Narayanganj ...	26	1014·6	—1·7	1011·3	1015·5	1012·2	81·7	+3·2	87	5,24,25	58·3	+0·8	52	15,17	70·9	70·9	63·9	63·8	17·2	+0·6	17·2	66	—12	66
Brahmanbaria ...	32	1015·8	—	1012·3	1016·9	1013·4	81·2	+1·4	87	24	57·3	+1·9	51	15,16	69·0	71·1	63·4	64·9	17·5	+0·5	18·4	72	+1	71
Srimangal	69	1014·4	—0·3	1011·1	1016·9	1013·5	78·8	—1·6	82	5	50·0	+0·5	45	14,15	63·6	63·7	61·3	62·5	17·5	+2·0	19·2	87	+3	93
Mymensingh ...	62	1014·9	—0·5	1011·4	1017·1	1013·6	83·3	+5·6	87	1,2	57·3	+1·5	52	18	64·7	68·5	60·7	61·4	16·5	+0·1	15·8	79	—4	66
EAST PAKISTAN (Deltaic)																								
Faridpur	46	1015·3	—0·3	1011·9	1016·9	1013·5	71·0	—5·4	76	24	56·2	+1·3	49	14,15	66·8	70·0	62·3	63·7	17·8	+1·4	17·1	76	—4	68
Barisal	11	1016·2	—0·2	1012·7	1016·6	1013·1	79·8	+1·7	86	24	57·4	+0·8	50	14,15	66.5	73·3	62·2	64·5	17·8	+0·2	16·3	78	—1	60
Khulna	16	1016·8	—0·2	1012·7	1017·3	1013·3	79·7	+1·0	87	24	58·3	+1·0	51	15	68·4	69.2	62·6	63·3	16·3	+0·3	17·0	71	+4	69
Jessore	26	1016·2	—0·6	1012·8	1017·1	1013·7	78·8	—0·1	87	24	52·6	+1·1	45	15	64·5	69·9	61·4	63·7	17·6	+2·0	17·7	83	+9	69
Satkhira	16	1015·7	—1·1	1012·1	1016·3	1012·7	79·6	—1·0	87	24	54·9	+0·5	44	15	65·3	73·0	61·4	65·8	16·5	+0·7	18·7	77	+2	66
KASHMIR																								
Srinagar* ...	5,202																							
Gulmarg* ...	8,709																							
Dras*	10,059																							
Leh*	11,529																							
Skardu*	7,505																							
Gilgit*	4,890																							
Misgar	10,190	699·7	—	697·6	703·6	701·4	×	—	—	—	×	—	—	—	14·4	24·7	12·1	19·1	1·8	—	1·8	65	—	43
NORTH PUNJAB																								
Lahore	702	993·4	+0·1	991·8	1019·7	1016·9	69·6	—2·7	75	9,10	35·8	—4·8	30	27,28	39·8	62·0	38·2	52·4	7·2	—1·7	9·1	86	+1	49
Sialkot	830	988·7	—0·2	986·7	1019·5	1016·4	68·2	—1·2	77	10	40·2	—2·0	33	24,26	44·7	61·4	40·7	51·3	6·9	—2·4	8·5	68	—16	45
Jhelum	765	991·4	—	989·4	1020·4	1016·6	69·1	—	75	1,12	33·5	—	27	22,23,25	37·2	62·9	35·0	53·0	5·9	—	9·3	82	—	48
Rawalpindi... ...	1,674	959·2	—0·5	957·4	1021·2	1013·6	68·2	+1·4	73	10	32·1	—5·7	26	23,24 26	35·8	57·8	33·2	46·9	5·4	—1·6	6·6	75	—1	42
Khushab	616	996·4	—0·8	994·6	1019·6	1016·4	71·5	—0·2	79	9	34·5	—7·0	28	25	37·9	66·8	34·4	51·3	5·2	—1·4	6·0	67	+6	27
Lyallpur	605	996·5	—0·3	995·1	1019·2	1016·7	69·8	—0·9	76	9	36·3	—5·9	30	26	37·6	64·3	35·8	51·3	6·4	—2·1	7·1	84	+8	34

* Data not available. × Data rejected.

0300 HRS. AND 1200 HRS. G. M. T.—FOR THE MONTH OF DECEMBER, 1950

Cloud Amount (eighths of sky)			Precipitation, inches						Wind Velocity, knots		Wind Direction—Number of Winds from :—																		STATION
											0300 hrs. G.M.T.									1200 hrs. G.M.T.									
Mean 0300 hrs. G. M. T.	Departure from normal.	Mean 1200 hrs. G. M. T.	Total of the month	Departure from normal.	Heaviest fall in 24 hours	Date	No. of days with 0·10 or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Cal	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	
																													EAST PAKISTAN (North)
1·4	—*	1·1	000	—0·09	000		0	—0·3	1·5	—	0	0	0	1	0	0	0	0	30	0	0	0	0	0	1	0	0	30	Sirajganj
1·3	+0·2	1·9	000	—0·09	000		0	—0·2	1·1	+0·2	3	5	4	3	0	2	5	3	6	0	1	0	0	0	1	4	0	25	Bogra
1·3	+0·3	0·5	000	—0·06	000		0	—0·1	1·0	—0·1	7	0	0	0	0	0	3	0	21	0	0	0	0	0	0	0	0	31	Dinajpur
																													EAST PAKISTAN (East)
1·3	—0·4	1·0	000	—0·98	000		0	—0·6	1·0	—0·2	3	0	0	0	0	0	0	1	27	4	0	0	0	0	0	0	4	23	Cox's Bazar
1·3	—0·3	1·1	000	—064	000		0	—0·7	2·7	—0·4	9	14	6	0	0	0	0	1	1	8	1	0	0	0	2	7	13	0	Chittagong
1·7	+0·7	1·8	000	—030	000		0	—0·4	1·2	+0·2	5	5	1	1	3	0	1	0	15	7	0	3	1	1	0	4	2	13	Comilla
1·1	—0·4	0·7	000	—020	000		0	—0·4	1·3	+0·2	4	0	4	4	1	4	6	8	0	1	0	0	0	2	1	7	3	17	Narayanganj
0·5	—	0·2	000	—031	000		0	—0·5	1·2	—	4	1	1	1	1	1	2	2	18	0	0	0	0	0	0	0	1	30	Brahmanbaria
1·5	+0·2	1·2	000	—025	000		0	—0·5	0·3	—0·8	0	2	1	0	0	0	2	0	26	1	0	0	0	0	0	0	0	30	Srimangal
0·8	—0·7	0·0	000	—0·09	000		0	—0·3	0·7	+0·2	0	0	2	2	0	0	0	0	27	0	0	0	0	0	0	0	0	31	Mymensingh
																													EAST PAKISTAN (Deltaic)
1·2	+0·2	1·8	000	—015	000		0	—0·3	1·8	+0·5	2	4	6	9	2	0	0	0	8	0	0	0	8	11	0	0	0	21	Faridpur.
1·6	+0·5	2·1	000	—025	000		0	—0·5	1·5	+0·4	6	3	0	0	0	1	2	9	10	1	0	0	0	0	0	1	4	25	Barisal.
0·5	—0·8	0·4	000	—019	000		0	—0·3	2·0	+0·3	6	6	0	2	0	2	2	6	7	5	0	0	1	0	0	2	4	19	Khulna
1·0	0·0	1·3	000	—018	000		0	—0·4	1·4	+0·5	5	2	1	0	3	2	1	4	13	0	0	0	0	0	0	0	0	31	Jessore
1·0	+0·6	2·7	000	—017	000		0	—0·3	1·3	+0·4	8	0	0	3	0	5	0	10	5	0	0	0	1	0	0	0	3	27	Satkhira
																													KASHMIR
																													Srinagar *
																													Gulmar
																													Dras
																													Leh *
																													Skardu *
																													Gilgit *
4·2	—	4·9	0·10	—	0·06	30	0	—	2·3	—	0	0	2	0	0	0	6	0	23	1	0	9	0	0	0	10	0	11	Misgar
																													NORTH PUNJAB
2.0	—0·4	1·3	0·00	—0·47	0·00	—	0	—1·0	1·0	+0·2	1	0	0	1	1	0	0	1	27	0	0	0	0	0	0	3	3	25	Lahore
2.6	+0·5	2·6	0·00	—0·72	0·00	—	0	—1·3	0·8	+0·1	0	5	0	2	0	2	0	0	22	0	0	0	0	0	0	0	0	31	Sialkot
1.9	—	1·5	0·00	—	0·00	—	0	—	0·4	—	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	2	29	Jhelum
1.6	—1·0	1·8	0·00	—1·24	0·00	—	0	—2·3	1·3	+0·1	0	0	0	0	0	0	0	0	31	0	0	0	0	0	2	2	1	26	Rawalpindi
0.8	—1·7	0·9	0·00	—0·43	0·00	—	0	—0·9	2·4	+0·5	2	5	2	1	2	3	1	1	14	1	1	4	1	0	3	10	3	8	Khushab
1.3	—1·7	1·3	0·00	—0·25	0·00	—	0	—0·6	1·7	+0·5	1	0	3	1	2	3	2	3	16	1	1	0	0	1	4	12	2	10	Lyallpur

*Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATIONS	Height of barometer cistern above mean sea level in feet.	Pressure at station level millibars: Mean 0300 hrs. G. M. T.	Pressure at station level millibars: Departure from normal	Pressure at station level millibars: Mean 1200 hrs. G. M. T.	Pressure at MSL millibars: Mean 0300 hrs. G. M. T.	Pressure at MSL millibars: Mean 1200 hrs. G. M. T.	Maximum temperature °F: Mean	Maximum temperature °F: Departure from normal	Maximum temperature °F: Highest	Maximum temperature °F: Date	Minimum temperature °F: Mean	Minimum temperature °F: Departure from normal	Minimum temperature °F: Lowest	Minimum temperature °F: Date	Dry bulb temperature °F: Mean 0300 hrs. G. M. T.	Dry bulb temperature °F: Mean 1200 hrs. G. M. T.	Wet bulb temperature °F: Mean 0300 hrs. G. M. T.	Wet bulb temperature °F: Mean 1200 hrs. G. M. T.	Vapour pressure millibars: Mean 0300 hrs. G. M. T.	Vapour pressure millibars: Departure from normal	Vapour pressure millibars: Mean 1200 hrs. G. M. T.	Relative humidity %: Mean 0300 hrs. G. M. T.	Relative humidity %: Departure from normal	Relative humidity %: Mean 1200 hrs. G. M. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SOUTH PUNJAB																								
Montgomery ...	558	998·7	0·0	997·2	1019·6	1017·0	69·7	—2·3	75	1	36·9	—6·2	30	27,28	41·8	66·7	38·9	54·2	6·6	—2·2	8·7	74	—3	39
Multan (P.B.O.) ...	405	1004·6	—	1002·6	1020·0	1017·2	70·5	—	76	12	34·0	—	27	23	38·3	66·5	35·3	51·1	5·7	—	5·9	71	—	26
Fort Abbas ...	475	1001·8	—	999·5	1019·5	1016·5	71·8	—	79	2	35·8	—	29	28	43·7	65·6	39·0	53·3	6·0	—	8·4	62	—	39
Bahawalpur ...	384	1005·3	+0·4	1003·2	1019·7	1018·7	72·1	—1·9	78	8,9,10	38·5	—5·1	33	27	41·2	68·5	38·1	54·9	6·4	—2·3	8·7	75	+1	41
Khanpur	297	1008·1	+0·2	1005·8	1019·2	1016·4	73·6	—2·6	80	10	38·7	—5·3	33	23	41·9	69·8	39·0	56·2	6·8	—1·9	9·2	73	+7	33
N. W. F. P. (Upper)																								
Chakdara	2,197	940·6	—	938·5	1022·4	1016·6	62·9	—	69	1	30·8	—	27	25,26,27	33·8	56·7	30·0	45·8	4·0	—	5·7	59	—	36
Peshawar	1,175	977·2	—1·2	975·3	1020·7	1017·0	67·7	+1·0	74	11	36·0	—4·9	30	22	39·8	60·3	33·7	47·8	4·3	—2·1	6·3	47	—18	33
Landikotal ...	3,503	897·3	—	895·9	902·6	901·0	56·5	—	64	4	30·8	—	23	23	38·5	51·9	32·4	40·6	4·0	—	3·9	51	—	31
N. W. F. P. (Lower)																								
Bannu	1,263	973·3	—	971·7	1019·8	1016·5	69·0	—1·1	75	1	38·4	—3·6	31	27	43·9	61·8	37·0	50·5	4·4	—2·2	7·0	45	—15	39
Miranshah* ...	3,026																							
D. I. Khan ...	570	998·4	—0·2	996·5	1019·6	1016·7	70·9	—0·6	78	9	*	—	—	—	38·8	66·4	34·4	54·3	4·9	—2·5	9·0	62	—10	41
BALUCHISTAN (North)																								
Fort Sandeman ...	4,614	862·5	—0·2	860·9	904·1	901·1	57·8	—2·1	67	8	27·9	—5·5	15	22	30·8	54·9	25·9	41·3	2·8	2·4	3·5	48	—25	23
Hindubagh ...	5,950	823·0	—	820·7	800·5	798·3	54·1	—	64	2	24·6	—	11	21	30·9	47·2	27·0	33·7	3·5	—	1·8	60	—	16
Loralai	4,699	858·2	—	853·8	904·0	900·1	57·5	—	64	8,9	27·8	—	17	21	29·4	47·2	24·5	37·5	2·5	—	3·8	37	—	21
Sibi	441	1003·5	+1·3	1001·0	1018·7	1015·2	74·3	—0·6	81	1	38·6	—6·9	29	21	43·2	71·4	36·2	52·6	4·1	—2·4	4·8	43	—7	19
Quetta	5,490	836·5	+0·2	834·2	796·5	796·2	49·3	—	59	9	17·8	—	3	21	23·4	46·3	22·4	37·4	3·6	—1·4	4·3	88	+15	41
Quetta (Sumungli) ...	5,253	845·6	—	843·2	798·4	798·9	50·3	—	61	3	13·5	—	—1	21	17·8	47·7	16·8	40·5	2·7	—	6·2	86	—	56
Chaman	4,311	875·2	+2·3	872·9	907·5	904·1	54·5	—2·5	70	7	30·6	6·2	17	20,21,22	33·2	49·9	29·3	39·7	3·8	—2·1	4·4	65	+5	37
Nushki (R) ...	3,412																							
Kalat	6,616	802·2	+0·6	800·8	799·4	798·2	49·3	—6·0	63	2	15·6	—10·5	3	19,20	20·2	45·0	*	*	*	*	*	*	*	*
Dalbandin	2,785	925·1	+2·8	922·6	905·3	903·9	60·3	—4·9	72	5,9	26·5	—8·5	15	18	30·4	58·3	27·2	46·5	4·0	—2·6	6·1	67	—2	33
Nokkundi	2,229	942·7	—	940·5	1024·0	1021·4	64·9	—6·0	74	30	34·9	—8·5	23	20,21	38·3	62.7	32·1	47·8	3·7	—2·2	5·4	47	—7	29
BALUCHISTAN (South)																								
Las Bela (R) ...	292																							
Ormara	15	1018·4	—	1015·3	1018·7	1015·8	76·6	—0·8	82	1,10	54·3	—4·6	44	19	60·2	74·6	55·1	63·3	12·6	—2·4	14·7	72	—5	52
Pasni (R) ..	10																							
Turbat ...	510	1002·6	—	999·5	1021·2	1017·2	77·6	—	86	3	50·4	—	41	25	56·8	73·4	45·9	57·5	5·8	—	8·9	37	—	25
Panjgur (R) ...	3,177																							
SIND (Upper)																								
Reti	280	1010.0	—	1007·6	1020·7	1017·6	75·4	—	81	8,9	35·6	—	27	20	38·0	71·5	34·8	57·4	5·4	—	9·8	70	—	37
Jacobabad	193	1012·8	+0·6	1010·1	1019·8	1016·7	73·4	—1·8	80	1	41·7	—4·8	36	22	45·6	70·4	39·5	56·0	5·5	—3·2	8·6	54	—14	34
Sukkur	221	1011.6	+0·6	1008·5	1019·2	1016·4	75·1	—1·8	82	2	43·4	—5·3	37	22,24,25	47·3	69·5	43·5	54·2	7·7	—1·5	7·1	72	+7	30
Padidan	153	1013·6	—	1011·2	1019·2	1017·0	72·8	—	80	6	37·2	—	31	22,25	41·7	71·5	39·2	56·2	7·0	—	9·2	79	—	32

*Data rejected. (R) Registers not received.

Cloud Amount (eighths of sky)			Precipitation, inches						Wind Velocity knots		Wind Direction—Number of Winds from —																		STATIONS
											0300 hrs. G.M.T.									1200 hrs. G.M.T.									
Mean 0300 hrs. G. M. T	Departure from normal	Mean 1200 hrs. G. M. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	No. of Days with 0·10 or more	Departure from normal	Mean	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																													SOUTH PUNJAB
0·6	—1·2	0·4	0·00	—0·26	0·00	—	0	—0·8	1·2	—0·4	0	0	0	0	0	5	0	15	11	0	1	0	0	0	13	0	6	11	Montgomery
1·2	—	1·3	0·00	—	0·00	—	0	—	1·1	—	0	0	1	0	0	0	0	0	30	2	1	3	3	3	1	0	0	18	Multan P.B.O.
0·9	—	1·5	0·00	—	0·00	—	0	—	2·1	—	1	2	2	9	2	6	0	1	8	12	4	1	1	0	1	3	7	2	Fort Abbas
0·7	—1·2	0·7	0·00	—0·22	0·00	—	0	—0·6	1.1	—0·5	0	3	0	0	5	3	0	0	20	3	2	0	0	2	0	1	0	23	Bahawalpur
1·5	—0·1	1·5	0·00	—0·13	0·00	—	0	—0·5	2·3	—0·9	7	2	2	0	9	4	0	1	6	6	7	2	1	5	2	3	1	4	Khanpur
																													N. W. F. P. (Upper)
0·3	—	0·8	0·00	—	0·00	—	0	—	1.7	—	0	0	2	0	0	2	1	1	25	1	0	1	3	1	0	1	0	24	Chakdara
2·1	—1·9	2·2	0·00	—0·67	0·00	—	0	—1·6	2.8	+1·7	0	0	0	0	8	19	1	0	3	1	3	4	6	7	2	0	1	7	Peshawar
1·8	—	1·9	0·00	—	0·00	—	0	—	1.7	—	0	0	0	2	2	2	1	7	17	0	2	0	3	1	7	2	9	7	Landikotal
																													N. W. F. P. (Lower)
0·8	—1·4	1.7	0·00	—0·40	0·00	—	0	—1·5	2.8	—	1	0	0	0	2	1	19	4	4	0	1	4	9	8	1	0	0	8	Bannu
																													Miran Shah*
0·7	—1·6	0·7	0·00	—0·24	0·00	—	0	—0·7	1.1	+0·5	3	0	0	0	0	0	4	3	21	2	3	1	1	0	0	0	1	23	D. I. Khan
																													BALUCHISTAN (North)
0·2	—2·4	0·3	0·00	—0·57	0·00	—	0	—0·2	2.1	+0·9	0	0	0	0	0	0	0	0	31	0	0	0	0	0	1	0	0	30	Fort Sandeman
1·2	—	1·5	0·00	—	0·00	—	0	—	7.4	—	0	0	0	1	0	8	16	4	2	0	1	2	1	2	21	3	1	0	Hindubagh
1·2	—	1·4	0·00	—0·50	0·00	—	0	—1·5	4·7	—	1	0	0	1	1	8	11	2	7	0	0	2	14	3	1	1	1	9	Loralai
1·5	—0·8	1·8	0·00	—0·30	0·00	—	0	—0·7	1.3	—0·2	0	1	1	0	0	0	1	5	23	0	1	2	4	1	8	8	2	5	Sibi
1·3	—1·4	1·9	0·08	—	0·08	9	0	—	3.0	+1·3	3	5	0	5	4	1	0	0	13	12	4	1	0	0	0	0	14	0	Quetta
1·6	—	2·0	0·07	—	0·07	9	0	—	2.7	—	5	0	2	4	1	1	2	5	11	3	0	0	0	0	1	7	19	1	Quetta (Samungli)
1·4	—1·5	1·4	0·00	—1·35	0·00	—	0	—3·2	3.1	—0·4	0	0	18	9	0	0	0	0	4	2	0	0	0	1	8	10	6	4	Chaman
																													Nushki (R)
1·1	—1·1	1·7	0·00	—0·94	0·00	—	0	—2·2	4.7	+1·3	0	0	0	26	0	1	0	1	3	0	0	0	0	3	2	0	23	3	Kalat
1·2	—1·1	1·6	0·00	—0·68	0·00	—	0	—1·8	3.1	+0·7	4	10	1	0	0	0	0	1	15	0	5	16	3	1	2	0	0	4	Dalbandin
0·8	—1·9	1·0	0·00	—0·14	0·00	—	0	—0·3	2.4	—1·8	8	3	0	0	0	0	0	6	14	5	1	2	4	3	0	1	6	9	Nokkundi
																													BALUCHISTAN (South)
																													Las Bela (R)
2·1	0·0	2·4	0·00	—0·64	0·00	—	0	—1·2	3.3	—0·4	0	0	10	4	1	0	0	1	15	0	0	3	9	5	4	5	5	0	Ormara
																													Pasni (R)
0·0	—	0·0	0·00	—	0·00	—	0	—	4.6	—	1	8	6	0	1	2	0	0	13	0	11	6	1	0	5	2	0	6	Turbat
																													Panjgur (R)
																													SIND (Upper)
0·4	—	0·7	0·00	—	0·00	—	0	—	2.1	—	5	3	1	3	4	2	1	0	12	6	5	1	0	1	1	5	4	8	Reti
1·3	—0·3	1·6	0·00	—0·17	0·00	—	0	—0·5	3.0	+1·0	1	2	3	2	0	0	2	8	13	5	0	0	1	0	1	3	14	7	Jacobabad
1·5	+0·2	1·5	0·00	—0·03	0·00	—	0	—0·2	1.6	—0·6	3	6	2	10	1	1	0	0	8	5	7	1	7	2	2	0	2	5	Sukkur
1·3	—	1·7	0·00	—	0·00	—	0		2.4	—	10	7	0	0	0	0	0	2	12	12	4	0	1	2	0	0	9	3	Padidan

(e) Mean of 28 day. (b) Mean of 29 days. (g) Mean of 24 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION	Height of bar. cistern above mean sea level in feet	Pressure at station level in millibars: Mean 0300 hrs. G. M. T.	Pressure at station level in millibars: Departure from normal	Pressure at station level in millibars: Mean 1200 hrs. G. M. T.	Pressure at M.S.L. millibars: Mean 0300 hrs. G. M. T.	Pressure at M.S.L. millibars: Mean 1200 hrs. G. M. T.	Maximum temperature °F: Mean	Maximum temperature °F: Departure from normal	Maximum temperature °F: Highest	Maximum temperature °F: Date	Minimum temperature °F: Mean	Minimum temperature °F: Departure from normal	Minimum temperature °F: Lowest	Minimum temperature °F: Date	Dry bulb temperature °F: Mean 0300 hrs. G.M.T.	Dry bulb temperature °F: Mean 1200 hrs. G.M.T	Wet bulb temperature °F: Mean 0300 hrs. G.M.T	Wet bulb temperature °F: Mean 1200 hrs. G.M.T.	Vapour pressure millibars: Mean 0300 hrs. G.M.T.	Vapour pressure millibars: Departure from normal	Vapour pressure millibars: Mean 1200 hrs. G.M.T.	Relative humidity %: Mean 0300 hrs. G.M.T.	Relative humidity %: Departure from normal	Relative humidity %: Mean 1200 hrs. G.M.T.
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SIND (Lower)																								
Umarkot (R) ...	55																							
Hyderabad ...	96	1015·6	+0·7	1012·9	1019·1	1016·3	75·7	—2·8	83	1,8	67·9	—4·7	49	19,28,29	51·7	72·2	44·8	54·8	7·1	—2·0	6·7	52	—6	35
Karachi (Drigh Road)	73	1015·8	—	1013·0	1018·5	1015·6	78·7	—	85	10	48·0	—	40	19,21	51·9	74·9	45·0	58·8	7·1	—	9·8	53	—	34
Karachi (Manora) ...	13	1017·7	+0·2	1015·1	1018·2	1015·6	77·9	—0·8	83	4	57·6	—2·5	52	4 days	59·6	74·5	51·6	61·7	9·5	—2·4	13·1	55	—7	44
Badin ...	31	1017·0	+0·7	1015·8	1018·2	1015·6	79·1	—1·4	87	11	45·2	—6·6	39	19,21,25	48·7	74·9	42·7	55·5	6·3	—3·7	6·3	56	—5	23
HILL STATIONS (excluding Kashmir and Baluchistan)																								
Murree	7,113	785·0	—1·1	784·5	797·2	796·6	48·0	—2·7	56	4	33·1	—1·8	27	25,26	37·7	40·8	30·1	32·9	3·0	—1·3	3·6	40	—8	42
Cherat	4,272	872·4	—0·8	872·0	902·4	901·9	55·3	+1·5	65	4	40·6	—1·8	34	27,28	48·8	49·1	36·4	40·1	4·0	—1·0	4·8	41	—7	42
Drosh	4,806	858·9	—0·2	856·0	907·0	902·9	50·7	+0·2	59	8	33·9	—1·7	27	26,27	36·6	46·3	29·8	35·0	2·9	—2·3	2·4	41	—24	25
Parachinar	5,673	828·8	—0·4	827·5	797·0	796·8	55·0	+0·2	62	4	28·8	—3·7	20	26	33·9	48·5	27·7	39·4	3·0	—2·3	5·0	47	—16	28
Wana*	4,457																							
AFGHANISTAN																								
Jalalabad	1,950	942·9	—	939·2	1012·9	1007·6	65·6	—	72	8	33·3	—	27	19,27	44·3	63·2	*	*	*		*	*		*
Kabul	5,955	823·7	—	821·8	801·4	800·5	48·2	+0·6	56	9	23·0	—3·7	15	26	26·3	44·1	22·0	34·7	2·4	—1·3	3·6	52	—18	37
Kandahar	3,462	902·1	—	901·2	905·9	903·7	58·0	—	71	8	20·0	—	10	21,22	25·0	54·0	24·2	42·7	4·0	—	5·3	89	—	32
IRAN																								
Jask	13	1017·9	—	1016·7	1018·3	1017·1	77·7	—0·1	80	10	59·7	—3·5	55	20	61·2	76·6	56·2	62·5	13·1	—	13·1	60	—	43
ARABIA																								
Muscat	20	1018·5	—	1016·9	1019·0	1017·2	75·5	—2·6	81	8	65·7	—3·0	62	1,25	67·8	73·1	61·1	64·9	15·3	—	17·2	67	—	62
Kuwait †	16	1020·5	—	1018·2	1021·0	1018·7	67·0	—	72	6	53·1	—	47	17,19	56·3	66·3	54·3	61·4	13·5	—	16·3	87	—	74

* Data rejected.
† Recorded at 0500 hours G.M.T. instead of 0300 hours G. M. T.

Could Amount Eights of Sky			Precipitation						Wind Velocity knots		Wind Direction—Number of Winds from :—																			STATIONS
											0300 hrs. G.MT									1200 hrs. G.M.T.										
Mean 0300 hrs. G.M.T.	Departure from normal	Mean 1200 hrs. G.M.T	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal		Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
			"	"	"																								
																													SIND (Lower)
1·0	+0·5	1·0	0·00	—0·10	0·00	—	0	—0·3	2·2	—1·3	23	4	0	0	0	1	0	0	3	18	11	1	0	1	0	0	0	0	Umarkot. (R)
2·1	—	2·3	0·00	—	0·00	—	0	—	2·0	—	18	3	1	0	0	0	0	1	8	0	6	4	1	5	8	5	1	1	Hyderabad.
1·7	—0·1	2·4	0·00	—0·20	0·00	—	0	—0·5	4·5	—0·6	1	24	2	0	0	0	0	0	4	0	1	3	2	1	10	13	1	0	Karachi (Drigh Road).
0·5	—0·8	0·6	0·00	—0·15	0·00	—	0	—0·4	3·5	—	24	3	0	1	0	0	0	2	1	24	4	0	0	0	0	0	2	1	Karachi (Manora).
																													Badin.
																													HILL STATIONS (excluding Kashmir and Baluchistan).
2·8	—0·3	2·4	0·10	—1·70	0·08	20	0	—3·2	7·0	+2·6	0	4	14	7	0	0	1	0	5	0	3	11	4	0	0	6	1	6	Murree.
1·0	—1·9	1·0	0·00	—1·56	0·00	—	0	—2·2	*	—	19	0	0	0	1	2	0	8	1	8	1	0	1	8	2	0	11	0	Cherat.
3·3	—0·2	3·6	0·17	—1·03	0·14	20	1	—2·2	1·4	—0·4	0	1	2	0	0	0	0	0	28	0	0	6	7	1	0	0	0	17	Drosh.
1·4	—1·6	2·5	0·00	—1·23	0·00	—	0	—2·9	2·5	+0·8	9	3	0	0	0	1	1	2	15	0	0	0	22	3	2	1	0	3	Parachinar.
																													Wana*
																													AFGHANISTAN
2·0	—	2·4	0·00	—	0·00	—	0	—	0·8	—	0	0	0	0	1	4	5	0	21	0	0	3	3	0	0	3	1	21	Jalalabad.
2·8	—1·0	2·7	0·04	—0·53	0·04	9	0	—1·6	3·9	+1·7	1	2	2	2	6	8	5	4	1	2	3	2	3	3	3	1	0	14	Kabul.
1·0		1·6	0·00	—	0·00	—	0	—	0·9	—	0	0	0	0	0	0	0	0	31	0	0	0	0	0	9	0	0	22	Kandabar.
																													IRAN
2·7	+0·5	2·9	0·22	—0·93	0·22	4	1	—1·0	3·5	—3·0	21	8	0	1	0	0	0	0	1	0	0	0	1	10	17	3	0	0	Jask.
																													ARABIA
1·7	—0·5	0·7	0·36	—0·34	036	3	1	—0·6	2·6	—0·5	1	0	0	0	2	17	4	1	6	0	0	0	0	0	19	0	9	3	Muscat.
2·4	—	2·4	0·48	—	028	1	2	—	5·6	—	0	0	0	5	0	8	9	9	0	1	4	5	4	0	1	4	12	0	Kuwait*

*Data rejected.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS—DECEMBER, 1950.

STATIONS	Maximum temperature °F				Minimum temperature °F				Mean dry bulb temperature 0300 hrs. G.M.T. °F	Mean wet bulb temperature 0300 hrs. G.M.T. °F	Vapour pressure inches		Relative humidity %		Mean cloud amount 0300 hrs. G.M.T.	Precipitation						Wind	
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date			Mean 0300 hrs. G.M.T.	Departure from normal	Mean 0300 hrs. G.M.T.	Departure from normal		Total of the Month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10 in. or more	Departure from normal	Resultant direction 0300 hrs. G.M.T.	Velocity in knots
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
EAST PAKISTAN (*North*)																							
Pabna	80·1	+0·3	87	24	55·7	+1·5	49	15·16	67·4	62·4	16·7	+0·5	74	—2		0·00	—0·15	0·00	—	0	—0·3		
KASHMIR																							
Jammu *																							
Kargil *																							

*Data not available.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 5TH CLASS STATIONS—DECEMBER, 1950.

DIVISION	STATION	PRECIPITATION					
		Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal
1	2	3	4	5	6	7	8
EAST PAKISTAN (*North*)	Rajshahi	0·00	—0·11	0·00	—	0	—0·2
	Rangpur	0·00	—0·08	0·00	—	0	—0·2
KASHMIR	Sonamarg *						
	Gurez *						
BALUCHISTAN (*North*)	Harnai	0·00	—0·77	0·00	—	0	—1·4

* Data not available.

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