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PAKISTAN WEATHER REVIEW, 1949

Monthly Weather Report

January

PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN.

Chief Features:—Thirteen western disturbances affected West Pakistan of which the first one caused in spell of wet weather over the region during first four days of the month and was responsible for a severe cold wave in Baluchistan and Sind during the first five day.

West Pakistan—An active western disturbances affected the northern parts of West Pakistan causing fairly widespread rain or snow in the N. W. F. P and the Punjab hills and scattered in northeast Baluchistan on the first three days of the month. In the wake of this disturbance a severe cold wave extended to Baluchistan on the 1st and to Sind by the 2nd and continued till the 5th of the month. The minimum temperatures as low as 10°F to 20°F below the freezing point were recorded at many stations in North Baluchistan and continued to be so on more than two nights. According to newspaper reports water in the ponds and taps and other open places was frozen. A night watchman and a few other persons were also reported to have died at Quetta as a result of this cold wave.

Twelve other western disturbances affected West Pakistan during the month, of which two were feeble and did not give any weather. One was fairly active and caused local light rain or snow in the Punjab and the N. W. F. P. and scattered showers in Baluchistan and Sind coast from 8th to 10th. The remaining nine caused only scattered light rain or snow in the N. W. F. P. on 15th, 21st to 23rd, 25th, 26th and 29th, in the Punjab on 25th, 26th, 27th, 30th and 31st and in northeast Baluchistan on 21st, 22nd and the 29th.

The total rainfall during the month was in moderate excess in the upper N. W. F. P. in moderate defect in the southwest Punjab and in large defect elsewhere in West Pakistan. Averaged over the plains of West Pakistan, it was in moderate defect.

The mean maximum and minimum temperatures were normal in the region, except for the northwest Punjab where the mean maximum temperature was above normal and the southwest Punjab and the lower N. W. F. P. where the mean minimum temperatures were above normal. Mean relative humidity was in excess in the west Punjab, north Baluchistan and lower Sind and normal elsewhere in the region. Skies were more clouded than usual in Sind and less clouded in the southwest Punjab and the upper N. W. F. P. and south Baluchistan.

East Pakistan—Weather remained dry throughout the month except for a few showers in the northern districts on the 17th.

The total rainfall during the month was in large defect in northern and Deltaic sub-division and in slight defect in eastern sub-division of East Bengal.

The mean maximum and minimum temperatures were normal. Mean relative humidity was in excess in the Deltaic sub-division and normal elsewhere over the region. Skies were less clouded than usual.

Table 1 contains the Divisional and sub-divisional means of rainfall, temperature, relative 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, 1949.

Division.	PRECIPITATION				DEPARTURE FROM NORMAL OF.				
							0230 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.		Degree.	Degree.	mb.	%	
1. East Bengal	0·17	0·35	—0·18	—51	+1·2	+0·7	+0·8	+3	—0·8
Mean of East Pakistan	0·17	0·35	—0·18	—51	+1·2	+0·7	+0·8	+3	—0·8
2. West Punjab	0·45	0·93	—0·48	—52	+2·0	+1·8	+1·1	+7	—0·7
3. N.W.F.P.	0·70	0·80	—0·10	—13	+1·3	+1·5	+0·5	—1	—0·4
4. Baluchistan	0·12	1·03	—0·91	—88	+0·7	—1·3	—0·4	+3	—0·9
5. Sind	0·01	0·26	—0·25	—96	+0·6	+0·5	+0·9	+3	+0·6
Mean of West Pakistan excluding Baluchistan	0·34	0·68	—0·34	—50	+1·4	+1·3	+0·9	+4	—0·2

SUB-DIVISION.	PRECIPITATIGN.				DEPARTURE FROM NORMAL.				
							0230 hrs. G.M.T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal	Maximum temperature	Minimum temperatur.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	Inches.	Inches.	Inches.		Degree.	Degree.	mb.	%	
1. East Bengal (North)	0·12	0·39	—0·27	—69	+1·6	+1·7	+0·6	—4	—0·8
2. East Bengal (East)	0·22	0·28	—0·06	—21	+1·7	+0·3	+0·5	+2	—0·9
3. East Bengal (Deltaic)	0·14	0·41	—0·27	—66	+0,3	+1·3	+1·2	+8	—0·8
4. Kashmir*									
5. North West Punjab	0·57	1·32	—0·75	—57	+2·1	+0·8	+0·8	+7	—0·3
6. South West Punjab	0·15	0·28	—0·13	—46	+1·9	+3·0	+1·6	+9	—1·3
7. N.W.F.P. (Upper)	2·04	1·44	+0·60	+42	—0·1	+0·4	+1·2	+4	—0·9
8. N.W.F.P. (Lower)	0·25	0·59	—0·34	—58	+1·7	+2·0	+0·3	—3	—0·2
9. Baluchistan (North)	0·19	0·97	—0·78	—70	+1·5	—1·3	—0·1	+6	—0·5
10. Baluchistan (South)	0·00	1·15	—1·15	—100	—0·4	—1·5	—0·9	—1	—1·5
11. Sind (Upper)	0·00	0·21	—0·21	—100	+0·7	+0·5	—0·2	—4	+0·8
12. Sind (Lower)	0·01	0·31	—0·30	—97	+0·5	+0·7	+2·1	+9	+0·5

* Data incomplete.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 0230 HRS. G

STATIONS.	Height of barometer above mean sea level in feet	Pressure at Stations level in millibars.			Pressure at M.S.L.		Maximum temperature. °F				Minimum temperature. °F				Dry bulb temperature. °F		Wet bulb temperature. °F		Vapour pre Milli ba	
		Mean 0230 G.M.T.	Departure from normal	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Mean 1130 hrs. G.M.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Mean 0230 hrs. G.M.T.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Departure from normal
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
EAST BENGAL (North).																				
Bogra	63	1015·4	+0·3	1012·3	1017·7	1014·6	77·8	+2·0	81	4 days	53·8	+1·7	49	1	62·8	73·0	56·4	62·8	12·7	—1·[illegible]
Dinajpur	123	1012·8	0	1009·6	1017·2	1013·9	78·5	+3·1	82	15	×	—	—	—	58·1	72·8	56·3	64·3	14·4	+1·[illegible]
EAST BENGAL (East).																				
Cox's Bazar ...	38	1015·6	+0·6	1012·3	1016·9	1013·6	80·7	+1·1	84	4 days	55·7	—0·5	51	1	66·3	74·2	61·0	66·2	16·6	—0·1
Chittagong ...	87	1013·9	+0·2	1010·7	1017·0	1013·7	81·2	+2·4	85	25,27	55·6	+0·6	52	8	62,9	73·3	59·3	64·6	15·8	+0·1
Comilla	29	1015·7	—0·1	1012·4	1016·7	1013·4	80·4	+1·9	84	26,27	54·0	+1·1	51	4 days	60·3	76·7	58·3	65·0	15·6	0
Narayanganj ...	26	1016·6	+0·5	1012·8	1017·5	1013·7	79·4	+1·5	82	4 days	56·0	+0·5	52	7,8	68·3	74·5	63·0	65·4	16·8	+1·[illegible]
Brahmanbaria ...	32	1016·0	...	1012·8	1017·1	1013·9	80·5	+2·1	85	26	54·6	+3·1	51	1	62·4	74·0	59·3	65·0	15·7	+1·[illegible]
Srimangal	69	1014·7	—0·3	1011·2	1017·2	1013·5	78·5	—1·0	82	4 days	47·8	+0·3	42	1	57·4	74·0	56·0	65·4	14·4	+0·[illegible]
Mymensingh ...	62	1015·7	+0·5	1012·1	1018·0	1014·3	80·2	+4·1	84	18,21,27	50·7	—2·9	49	4 days	60·4	74·0	57·6	65·7	14·5	0
EAST BENGAL (Deltaic).																				
Faridpur	46	1015·4	+0·4	1012·1	1017·0	1013·7	72·9	—3·0	76	22,26	×	—	—	—	61·3	72·0	59·2	64·5	16·2	+1·[illegible]
Barisal	11	1016·6	—0·1	1013·3	1017·0	1013·7	79·8	+2·0	83	27	57·3	+1·9	51	8	66·3	75·0	62·3	64·9	17·2	+1·[illegible]
Khulna	16	1017·0	+0·2	1013·5	1017·5	1014·1	81·2	+2·7	89	15	55·9	+0·7	51	8,24	64·8	74·4	60·7	64·3	16·5	+1·[illegible]
Jessore	26	1016·3	—0·2	1013·2	1017·2	1014·1	77·5	—1·1	80	27	51·2	+2·0	45	8	58·6	75·6	58·0	64·6	16·5	+2·[illegible]
Satkhira	16	1015·8	—0·8	1013·0	1016·4	1013·6	80·9	+0·7	84	4,27	53·3	+0·5	47	9	56·1	76·6	55·2	70·5	14·3	—0·[illegible]

× Data not available.

Relative humidity %			Cloud Amount (Eighths of Sky).			Precipitation.						Wind velocity in knots.		Wind direction—Number of winds from :—																		STATIONS.
														0230 hrs. G.M.T.									1130 hrs. G.M.T.									
Mean 0230 hrs. G.M.T.	Departure from normal	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 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.	
3	24	25	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).
5	—17	51	0·8	—1·0	0·7	0·09	—0·34	0·09	18	0	—1·0	...	...	5	4	1	3	0	1	1	5	11	3	2	0	2	1	0	7	1	15	Bogra
8	+2	61	0·9	—0·6	0·7	0·31	—0·05	0·31	18	1	+0·1	1·5	+0·4	2	8	0	0	0	2	2	1	16	0	2	0	0	1	2	0	0	26	Dinajpur
																																EAST BENGAL (East).
5	—2	67	0·5	—0·9	0·6	...	...	...	...	...	...	1·5	0	0	1	1	1	0	0	0	0	28	2	0	0	0	0	1	3	9	16	Cox's Bazar
8	—3	60	0·7	—0·7	0·8	1·10	+0·86	1·10	19	1	+0·6	3·0	+0·8	1	14	10	1	0	0	0	0	5	3	0	0	0	1	8	11	8	0	Chittagong
7	+8	52	0·7	—0·6	1·5	0·00	—0·32	0·00	...	0	—0·8	1·7	+0·6	6	0	2	8	4	0	0	1	10	5	0	4	0	2	3	5	6	6	Comilla
3	—7	60	0·2	—1·6	0·7	0·00	—0·32	0·00	...	0	—0·7	1·2	+0·1	4	2	9	0	4	0	8	3	1	2	0	3	0	1	0	13	6	6	Narayanganj
2	+9	60	0·4	—0·5	0·9	0·00	—0·22	0·00	...	0	—0·7	1·5	...	3	0	1	0	5	0	0	0	22	4	0	0	0	0	1	1	4	21	Brahmanbaria
1	+4	61	0·8	—0·6	1·2	0·23	—0·19	0·23	19	1	0	1·5	+0·1	0	0	0	0	1	0	0	0	30	0	0	2	0	2	0	2	0	25	Srimangal
85	+2	62	0·5	—1·4	0·3	0·03	—0·29	0·03	19	0	—0·9	0·9	+0·2	0	1	0	1	0	0	0	0	29	0	0	0	0	0	0	0	0	31	Mymensingh
																																EAST BENGAL (Deltaic).
87	+5	64	0·4	—0·9	0·7	0·00	—0·43	0·00	...	0	—0·9	1·4	—0·1	5	2	0	3	1	2	0	4	14	6	3	0	0	0	0	0	5	17	Faridpur
77	—3	56	0·7	—0·7	0·7	0·00	—0·42	0·00	...	0	—0·7	1·5	+0·5	3	0	0	0	0	0	1	0	27	0	0	0	0	0	0	0	3	28	Barisal
77	+5	56	(b) 0·3	—1·3	(b) 0·5	...	...	...	...	...	...	(c) 1·4	—0·3	0	1	0	0	0	(b) 0	0	1	27	0	0	0	0	(b) 0	0	0	2	27	Khulna
97	+18	53	0·8	—0·7	0·6	0·53	+0·16	0·53	28	1	+0·1	1·5	+0·5	3	3	0	1	1	1	0	4	18	5	0	0	0	0	0	6	7	13	Jessore
93	+14	76	1·2	—0·2	2·1	0·02	—0·38	0·02	28	0	—0·9	1·0	0	0	1	0	1	0	2	0	8	19	0	1	0	0	0	3	0	15	12	Satkhira.

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

STATIONS.	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			
	Height of bar. datum above mean sea level in feet	Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Mean 1130 hrs. G.M.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0232hrs. G.M.T.	Mean 1130 hrs. M.G.T.	Mean 0230 hrs. G.M.T.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 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	2
KASHMIR																						
Srinagar ×	5205																					
Gulmarg ×	8709																					
Dras ×	10059																					
Leh ×	11529																					
Skardu ×	7505																					
Gilgit ×	4890																					
Misgar	10190	696·5	...	694·5	700·4	698·3	33·5	...	39	8,22	8·5	...	2	4 days	18·8	30·3	17·2	27·7	2·7	...	4·3	7
NORTH PUNJAB																						
Lahore	702	992·6	+0·1	991·3	1018·6	1016·1	69·9	+1·9	76	25	42·6	+2·5	35	5,6	45·3	67·4	44·0	55·5	9·2	+0·8	9·7	9
Sialkot	830	987·7	—0·4	986·6	1018·5	1016·2	68·2	+2·6	76	25	...	...	...	...	48·2	64·9	46·0	55·9	9·6	+0·8	11·3	8
Jhelum	765	990·8	...	989·2	1019·2	1016·3	67·0	...	75	25,26	42·3	...	37	5,6	44·7	65·0	43·2	55·2	8·8	...	10·5	8
Rawalpindi	1674	958·9	+0·1	957·8	1020·1	1016·8	63·4	+1·1	73	25	39·5	+1·6	35	4,7,31	41·9	58·9	40·8	50·4	8·2	+1·0	9·1	9
Khushab	616	995·9	—0·5	993·9	1018·5	1015·8	70·0	+2·3	78	25	37·9	—2·8	31	5	44·1	68·8	41·7	57·2	7·9	+1·1	11·8	8
Lyallpur	605	995·8	—0·5	994·5	1018·3	1015·9	69·5	+2·4	77	20	41·9	+2·0	33	4,5,6	44·6	67·3	41·9	55·5	8·3	+0·1	9·7	8
SOUTH PUNJAB																						
Montgomery ...	558	998·0	+0·1	996·6	1018·6	1016·0	70·4	+2·3	77	20,25	43·7	+2·0	34	5,6	46·3	68·7	44·4	57·3	9·1	+1·4	10·9	8
Multan (R)	413																					
Fort Abbas	475	1001·1	...	998·8	1018,6	1015·8	72·8	...	81	30,31	46·2	—	28	5	46·2	68·8	44·2	56·9	9·0	...	10·4	8
Bhawalpur	384	1004·3	—0·4	1002·2	1018·5	1015·8	71·1	+1·2	80	29	43·5	+3·0	32	4,5,6	45·4	69·6	43·7	58·9	8·9	+1·6	12·3	8
Khanpur	297	1007·5	—0·4	1005·4	1018·6	1015·9	74·0	+2·1	81	31	43·8	+3·9	30	5	45·5	70·9	42·7	56·4	8·1	+1·7	9·0	7
N.W.F.P. (Upper)																						
Chakdara	2197	940·1	...	938·5	1020·7	1016·3	58·9	...	67	25	39·2	...	35	5	40·9	57·5	39·6	52·5	7·8	...	11·5	8
Peshawar	1175	977·5	+0·2	976·1	1020·7	1017·8	62·9	—0·1	73	25	40·8	+0·4	34	7	43·7	61·2	40·8	51·2	7·4	+1·2	8·4	7
Landikotal	3503	899·3	...	898·9	904·2	904·0	51·3	...	62	20	33·7	—	26	4	38·7	48·5	35·4	40·8	5·6	...	5·3	6
N.W.F.P. (Lower)																						
Bannu	1264	972·9	...	972·4	1019·2	1016·9	66·8	+1·3	70	21,25	43·0	+3·1	36	4,5	45·7	64·1	40·7	52·3	6·4	+0·6	8·1	6
Miranshah	3026	913·3	...	911·9	902·2	901·2	61·1	+4·4	70	14	36·6	+0·9	22	11	40·2	58·6	35·8	45·8	5·4	+1·0	5·3	6
D. I. Khan	570	998·5	+0·6	997·7	1019·7	1018·0	67·5	—0·5	74	25	*	...	...	...	45·9	66·9	(a) 40·3	52·9	6·0	—0·7	7·5	(a) 5

(R) Register not received. (x) Data not available. (a) Mean of 30 days. (*) Data rejected.

D 1130 HRS. G. M. T. FOR THE MONTH OF JANUARY, 1949.

Cloud Amount (Eighths of Sky.)		Precipitation, inches.						Wind velocity, knots		Wind direction—No. of winds from :—																				
										0230 hrs. G.M.T.									1130 hrs. G.M.T.											
Departure from normal.	Mean 1130 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.	STATION.
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
																												KASHMIR
																												Srinagar ×
																												Gulmarg ×
																												Dras ×
																												Leh ×
																												Skardu ×
																												Gilgit ×
8	...	5·2	0·04	...	0·03	23	0	...	3·6	...	2	0	3	0	2	4	14	6	0	0	4	15	6	1	0	3	2	0	Misgar
																												NORTH PUNJAB
6	—0·4	2·4	0·32	—0·72	0·27	9	1	—1·0	2·0	+0·9	0	0	1	2	0	0	0	2	26	1	2	1	0	1	0	5	7	14	Lahore
0	+0·4	3·1	1·01	—0·95	0·71	10	2	—0·9	1·6	+0·7	2	5	1	0	1	0	2	8	12	2	3	1	0	1	2	5	14	3	Sialkot
4	...	3·0	1·07	...	0·85	9	1	...	1·8	...	1	2	0	2	0	1	0	7	18	1	0	0	0	1	0	7	9	13	Jhelum
2	0·0	3·2	1·14	—1·35	0·63	9	3	—0·8	2·2	+0·6	0	0	0	0	0	0	0	0	31	1	1	0	0	0	3	9	0	17	Rawalpindi
5	—0·2	2·5	0·34	—0·35	0·34	3	1	—0·5	0·6	—1·6	0	1	0	2	0	0	0	1	27	3	3	1	3	0	3	0	5	13	Khushab
4	—1·2	2·4	0·06	—0·34	0·06	9	0	—1·0	1·0	—0·3	2	2	1	1	2	3	2	3	15	6	1	0	0	0	1	1	6	16	Lyallpur
																												SOUTH PUNJAB
8	—1·2	1·6	0·14	—0·32	0·13	9	1	—0·3	1·3	—0·6	0	0	0	1	0	2	1	3	24	2	3	4	1	1	1	0	3	16	Montgomery
																													Multan (R)
2	...	2·0	0·82	...	0·55	9	2	...	2·9	...	5	8	3	0	1	3	1	1	9	12	6	1	0	0	1	2	6	3	Fort Abbas
6	—2·0	1·0	0·15	—0·01	0·15	9	1	+0·4	1·7	0·0	1	2	0	0	0	0	0	0	28	0	5	0	0	0	0	2	1	23	Bahawalpur
6	—0·6	1·2	...	...	...	...	...	...	5·1	—0·3	10	7	1	1	1	1	1	7	2	6	7	3	1	3	3	2	6	0	Khanpur
																												N.W.F.P. (Upper)
4	...	3·8	3·99	...	1·80	2	4				16	0	5	0	0	0	1	8	1	7	5	4	0	0	2	1	9	3	Chakdara
7	—0·9	3·8	2·04	+0·88	0·64	1	4	+1·1	2·8	+1·6	1	0	1	2	7	16	0	0	4	1	2	0	7	10	4	0	0	7	Peshawar
7	...	3·7	1·40	...	1·20	4	2	...	2·1	...	3	2	0	0	0	0	0	3	23	5	5	0	0	0	0	0	9	12	Landikotal
																												N.W.F.P. (Lower)
8	+0·4	2·9	0·29	—0·23	0·29	2	1	—0·2	3·1	...	0	0	0	0	1	0	8	11	10	0	1	3	12	7	0	0	1	7	Bannu
9	+0·3	3·3	0·46	—0·34	0·[illegible]	2	1	—0·9	4·6	+1·0	3	4	1	1	0	1	2	7	12	0	0	10	12	1	3	1	1	3	Miranshah
2	—1·3	1·6	0·00	—0·45	0·00	...	0	—1·2	1·9	+0·9	2	0	0	0	0	0	4	7	18	2	4	1	2	0	1	1	5	15	D. I. Khan

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 02:

STATIONS.	Height of Bar. cistern above sea level.	Pressure at station level, in millibars: Mean 0230 hrs. G.M.T.	Pressure at station level, in millibars: Departure from normal.	Pressure at station level, in millibars: Mean 1130 hrs. G.M.T.	Pressure M. S. L., millibars: Mean 0230 hrs. G.M.T.	Pressure M. S. L., millibars: Mean 1130 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 0230 hrs. G.M.T.	Dry bulb temperature °F: Mean 1130 hrs. G.M.T.	Wet bulb temperature °F: Mean 023 hrs. G.M.T.	Wet bulb temperature °F: Mean 1130 hrs. G.M.T.	Vapour mill: Mean 0230 hrs. G.M.T.	Vapour mill: Departure from
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	2
BALUCHISTAN (North)																				
Fort Sandeman	4614	863·4	+2·0	861·0	904·7	901·2	57·2	+2·5	73	20	31·7	+1·1	18	3	34·7	55·6	31·3	43·4	4·6	
Hindubagh (R)	5950	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Loralai (R)	4699	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
[illegible]	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Sibi	441	1004·4	+2·5	1002·9	1018·9	1015·9	73·1	+3·0	82	29,30,31	43·6	+1·6	30	4,5,6	46·8	71·7	40·9	54·6	6·1	
Quetta	5490	834·0	—0·6	832·7	796·0	796·4	51·0	...	68	21,22	24·0	...	9	11	28·3	49·5	27·2	42·7	4·5	
Quetta (Samungli)	5253	843·9	...	842·7	799·1	798·0	51·4	...	68	19,20,21	22·0	...	9	3,4	26·9	49·4	24·8	41·4	3·8	
Chaman	4311	876·9	+5·5	873·0	907·0	905·9	52·5	+0·1	71	20,21	33·2	—1·3	10	9	37·6	51·1	39·8	46·8	6·5	
Nushki	3412	906·6	...	904·7	908·3	906·4	60·8	...	81	21,22	37·8	...	16	3	43·0	57·6	37·7	48·1	5·4	
Kalat	6616	802·2	+2·0	800·2	799·4	797·6	52·5	+3·0	68	19	24·3	—1·6	11	5	26·6	49·5	24·9	42·0	4·1	
Dalbandin	2785	923·7	+2·3	921·2	904·5	902·6	61·4	—0·1	82	21	29·7	—5·6	11	4	34·5	60·7	31·3	49·9	4·9	
Nokkundi	2229	941·0	...	939·9	1021·9	1018·0	63·8	+0·4	82	19	36·3	—2·0	17	10	39·8	62·5	34·3	47·4	4·6	
BALUCHISTAN (South)																				
Las Bela	292	1007·8	+0·4	1004·3	1018·6	1012·8	79·5	+1·4	88	30,31	...	...	...	...	52·4	79·6	47·2	67·9	8·8	
Ormara	15	1017·1	...	1015·1	1017·7	1015·5	74·2	+0·4	83	30	53·7	—2·8	40	3	57·0	72·7	54·6	64·1	13·4	
Pasni	10	1017·6	+0·1	1015·4	1018·0	1015·8	73·2	—1·3	82	30,31	54·6	—0·1	40	3	56·4	72·0	52·5	64·3	11·4	
Turbat (R)	510	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Panjgur	3177	908·8	+1·1	907·0	901·0	900·0	60·8	—2·1	79	20	...	...	...	...	38·1	58·7	34·1	49·9	5·0	
SIND (Upper)																				
Reti (R)	280	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Jacobabad	183	1011·6	+0·1	1009·4	1018·5	1016·0	74·1	+2·7	83	31	44·3	—0·6	28	5	47·2	72·5	41·8	58·5	6·9	
Sukkur	221	1010·0	—0·3	1008·0	1018·1	1015·9	70·9	—1·4	82	31	46·5	+1·5	30	4,5	49·8	70·4	44·8	55·6	8·0	
Padidan	153	1012·7	...	1010·3	1018·4	1015·7	74·4	...	85	31	41·4	...	25	3 4	44·1	73·8	41·8	56·5	7·8	
SIND (Lower)																				
Umerkot	55	1014·0	...	1011·8	1016·1	1013·1	78·8	...	87	19,31	47·5	...	30	5	51·6	78·8	49·0	66·4	10·9	
Hyderabad	96	1014·0	—0·4	1011·4	1017·1	1014·8	77·3	+1·5	92	19	51·1	+0·5	37	4	53·1	76·1	48·8	61·6	9·6	
Karachi (A. P.)	73	1015·0	...	1012·7	1017·6	1015·3	78·0	...	85	18,31	50·3	...	35	4,5	54·1	75·8	50·8	65·2	10·9	
Karachi (Manora)	13	1017·0	0·0	1014·6	1017·5	1015·2	75·0	—0·5	81	27,28	58·2	+0·8	43	4,5	60·6	72·9	55·8	64·5	13·1	
Badin	31	1017·5	+1·3	1012·9	1018·2	1013·6	79·4	+3·1	92	7	50·5	+3·3	3·1	5	54·2	77·2	48·0	61·4	8·5	
HILL STATIONS (excluding Kashmir and Baluchistan).																				
Murree	7113	785·0	+0·9	784·7	796·9	796·9	46·2	+1·0	58	14	33·6	+2·9	23	4	37·1	42·3	32·5	37·5	4·6	
Cherat	4272	872·7	+0·7	872·6	902·9	902·7	50·0	+0·8	58	20,24,26	39·8	+0·9	28	5	43·5	48·0	36·5	39·5	4·6	
Drosh	4806	859·5	+1·9	857·9	907·9	905·5	41·9	—3·8	51	30,31	29·9	—1·5	19	6	32·9	36·3	30·3	34·6	4·7	
Parachinar	5673	828·9	+1·3	828·0	797·0	797·1	51·9	+2·1	64	19	28·5	—0·1	13	4	31·6	47·9	29·0	40·2	4·5	
Wana	4456	864·4	...	863·9	901·0	899·3	57·5	+4·2	72	20	28·7	+1·9	19	3,4	35·4	52·3	33·7	49·8	5·9	
AFGHANISTAN																				
Jalalabad	1950	946·6	...	945·3	1017·4	1013·5	59·2	...	72	26	37·7	...	28	4,5	41·7	57·8	37·7	47·3	6·1	
Kabul	5955	824·7	...	823·3	801·1	800·9	34·1	—3·1	47	27,31	16·3	—2·9	—4	10	20·6	31·0	19·0	28·3	2·8	
Kandahar	3462	909·6	...	907·0	913·4	910·5	55·5	...	72	20,21,23	27·3	...	13	3	31·8	54·0	30·2	44·8	5·1	

(R) Register not received.

Relative humidity. %			Cloud Amount (Eighths of Sky.)			Precipitation, inches.						Wind velocity, knots		Wind direction—No. of winds from :—																		STATION.
														0230 hrs. G.M.T.									1130 hrs. G.M.T.									
Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 hrs. G.M.T.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	No. of days with 0·01" 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.	
23	24	25	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
																																BALUCHISTAN (North)
67	—12	33	2·7	—0·1	3·2	0·44	—0·28	0·26	22	2	—0·1	1·8	+0·2	1	0	2	0	2	1	0	0	25	6	2	2	0	1	2	2	5	11	Fort Sandeman
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Hindubagh (R)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Loralai (R)
...	...	...	...	...	...	~~0·48~~	~~—0·41~~	~~0·30~~	~~1~~	~~2~~	~~0·0~~	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	~~Jacobabad~~
55	+4	26	2·6	0·0	3·2	0·13	—0·31	0·10	2	1	—0·1	2·2	+0·1	1	1	0	1	0	0	2	9	17	0	0	3	4	0	5	9	4	6	Sibi
90	+11	65	3·0	—0·5	3·0	0·24	...	0·12	9	1	...	4·0	+1·8	5	3	2	7	6	1	2	0	5	6	3	1	1	2	3	5	10	0	Quetta
79	...	51	3·2	...	3·5	0·00	...	0·00	...	0	...	4·4	...	0	0	6	6	0	0	1	2	16	1	0	0	2	2	4	8	11	3	Quetta (Samungli)
86	+19	75	3·1	—0·3	3·1	0·26	—1·38	0·15	15	2	—2·4	...	...	0	0	1	4	0	0	2	0	24	0	3	0	1	0	4	0	1	22	Chaman
66	...	54	1·7	...	3·4	0·00	...	0·00	...	0	...	7·1	...	3	3	15	0	4	0	2	1	3	3	0	1	0	0	2	23	2	0	Nushki
85	+14	58	2·5	—0·5	3·1	0·00	—1·31	0·00	...	0	—3·5	4·5	0·8	0	1	0	22	3	1	0	0	4	1	0	0	0	1	9	0	19	1	Kalat
74	0	45	2·0	—1·0	2·6	0·04	—0·84	0·04	9	0	—2·1	5·6	+2·8	4	8	2	0	0	0	0	0	17	2	9	5	0	2	6	1	0	6	Dalbandin
58	+4	29	1·5	—1·1	2·5	0·00	—0·89	0·00	...	0	—2·0	4·3	—0·6	20	0	1	0	0	0	0	1	9	4	0	3	10	8	0	0	4	2	Nokkundi
																																BALUCHISTAN (South)
70	+3	63	0·4	—1·8	0·1	0·00	—0·26	0·00	...	0	—1·0	1·8	+0·1	0	0	0	0	0	0	0	7	24	0	0	0	3	1	14	0	4	9	Las Bela
84	+7	59	2·0	—0·6	1·9	0·00	—1·55	0·00	...	0	—1·8	4·7	+0·7	3	1	7	4	1	1	2	2	10	0	1	3	4	4	5	12	2	0	Ormara
74	—4	63	0·0	—2·3	0·0	0·00	—1·95	0·00	...	0	—2·3	5·7	+0·7	9	1	2	0	0	0	6	2	11	2	2	9	0	1	0	16	1	0	Pasni
...	...	...	...	...	...	...	...	...	...	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Turbat (R)
65	—10	52	1·4	—1·3	2·5	0·00	—0·83	0·00	...	0	—1·9	4·8	+0·4	2	16	9	1	0	0	0	1	2	6	3	0	0	1	9	6	4	2	Panjgur
																																SIND (Upper)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Reti (R)
60	—11	39	2·2	+0·1	2·3	0·00	—0·23	0·00	...	0	—0·7	3·8	+1·2	0	1	0	0	0	0	0	15	15	3	3	2	4	0	2	0	11	6	Jacobabad
65	+3	34	3·1	+1·5	2·2	0·00	—0·18	0·00	...	0	—0·4	2·9	+0·5	5	7	8	6	0	0	0	1	4	6	9	3	3	0	2	3	2	3	Sukkur
81	...	27	2·5	...	1·8	0·00	...	0·00	...	0	...	3·5	...	10	2	0	0	0	0	2	10	7	14	4	0	3	4	1	1	3	[illegible]	Padidan
																																SIND (Lower)
82	...	49	1·0	...	0·6	0·00	...	0·00	...	0	...	3·4	...	11	5	2	3	7	2	1	0	0	15	0	0	0	1	3	2	10	0	Umerkot
71	+10	41	2·5	+0·7	1·9	0·00	—0·17	0·00	...	0	—0·5	(a) 2·2	—1·4	21	3	0	2	0	1	0	0	3	8	11	0	1	0	4	0	2	6	Hyderabad
79	...	55	2·1	...	1·6	0·01	...	0·01	8	0	...	5·9	...	11	5	1	0	0	0	2	3	9	2	6	2	1	3	10	6	1	0	Karachi (A. P.)
71	+8	61	2·5	+0·2	1·5	0·02	—0·44	0·02	9	0	—1·0	5·4	0·0	4	14	6	0	0	0	2	1	3	1	6	2	0	2	8	11	1	0	Karachi (Manora)
60	+1	36	1·7	+0·5	1·4	0·00	—0·15	0·00	...	0	—0·4	×	...	×	...	...	...	...	...	...	...	...	×	...	...	...	...	...	...	...	...	Badin
																																HILL STATIONS (excluding Kashmir and Baluchistan).
66	+4	63	4·7	+0·9	4·7	2·59	—1·20	0·79	3	6	—0·1	7·7	+2·7	2	3	13	6	0	0	0	1	6	0	2	11	9	1	0	1	0	7	Murree
50	—5	45	2·3	—1·0	2·9	1·57	—0·76	0·74	1	3	—0·5	12·1	+3·1	31	0	0	0	0	0	0	0	0	26	0	0	1	1	0	1	1	1	Cherat
75	—3	60	4·5	+0·7	5·4	7·52	+6·15	2·89	4	7	+3·6	3·1	+0·6	0	7	4	8	1	0	0	0	11	0	6	5	10	1	4	0	0	5	Drosh
77	+6	54	3·4	+0·1	3·4	0·85	—1·18	0·61	2	1	—3·6	2·4	+0·7	11	4	1	0	1	0	0	12	2	5	2	0	3	6	3	4	7	1	Parachinar
84	+2	83	2·0	—0·3	1·4	0·12	—1·27	0·12	2	1	—2·0	2·2	...	0	0	0	4	2	0	0	0	25	0	0	1	5	5	1	0	2	17	Wana
																																AFGHANISTAN
68	...	45	4·5	...	4·6	0·60	...	0·32	2	2	...	3·5	...	2	0	0	0	0	5	2	8	4	1	1	2	1	1	6	4	11	4	Jalalabad
77	+2	74	4·3	+0·6	4·1	1·19	—0·10	0·29	9	4	+0·9	4·6	+1·5	1	2	1	1	4	8	5	3	6	3	4	1	0	6	7	4	3	3	Kabul
35	...	31	3·0	...	2·8	0·20	...	0·16	15	1	...	2·0	...	0	2	0	0	0	0	0	0	29	0	3	0	0	0	10	0	0	18	Kandahar.

* Data not available. (a) Mean for 30 days

TABLE III.—ABSTRACT OF OBSERVATIONS RECORDED AT 0400 G.M.T. AND 1200 HRS.

STATIONS	Height of bar. cistern above mean sea level in feet	Pressure at Stations 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 0400 hrs. G.M.T.	Departure from normal.	Mean 1200 hrs. G.M.T.	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0400 hrs. G.M.T.	Departure from normal.	Mean 1200 hrs. G.M.T.	Mean 0400 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
IRAN.																								
Jask (R)	13	1019·4	...	1016·6	1019·9	1017·0	73·7	—0·8	78	5days	57·9	—2·6	46	9	60·6	70·9	55·0	60·3	12·3	—2·3	14·8	58	—13	48
Bushire	14	1019·8	...	1018·0	1020·3	1018·5	68·1	+4·1	77	19	50·3	—1·4	39	2	53·2	62·5	46·7	56·3	7·9	—4·6	12·6	78	—5	64
ARABIA																								
Muscat	20	1018·5	...	1016·1	1019·0	1016·7	71·7	—3·6	80	30	63·4	—3·2	56	2,4,5	65·4	70·1	60·2	63·3	15·9	—0·5	16·9	73	+1	67
Sharjah	18	1018·8	...	1016·5	1019·1	1017·1	73·5	—0·5	85	22	51·2	—2·5	39	3	55·5	70·2	52·3	62·3	11·9	—0·4	15·4	79	+1	62
Kuwait (R) ...																								

(R) Register not received.

Cloud Amount			Precipitation						Wind velocity, knots per hour.		Wind direction—No. of winds from :—																	STATION.
											0400 hrs. G.M.T.									1200 hrs. G.M.T.								
Mean 0400 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
																													IRAN
2·4	—0·8	2·4	0·67	—0·50	0·17	8,14	4	—1·9	8·6	+0·5	5	12	5	0	0	0	2	4	3	[illegible]	0	2	3	3	10	10	0	0	Jask
4·0	+0·3	4·6	1·81	—0·95	0·41	10	6	+1·2	5·5	—2·0	3	2	10	2	2	1	1	6	4	0	0	1	1	4	2	2	16	5	Bushire
																													ARABIA
0·4	—2·1	1·0	0·00	—0·98	0·00	...	0	—1·6	3·8	+0·3	1	1	1	0	0	1	1	4	22	4	7	3	1	1	2	0	9	4	Muscat.
2·0	—2·1	2·5	0·18	—0·93	0·18	1	1	—1·0	6·0	—1·0	0	2	11	11	3	1	1	1	1	8	4	0	0	2	3	4	10	0	Sharjah
																													Kuwait (R)

 TABLE IV.—ABSTRACT OF OBSERVATIONS RECORDED AT 0230 HRS. G.M.T. AT 4TH CLASS STATIONS—JANUARY, 1949.

STATIONS.	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature 0230 hrs. G.M.T.	Mean wet bulb temperature 0230 hrs. G.M.T.	Vapour pressure.		Relative Humidity %		Mean cloud amount 0230 hrs. G.M.T.	Precipitation.						Wind.	
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.			Mean 0230 hrs. G.M.T.	Departure fro normal.	Mean 0230 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 0230 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 BENGAL (North)																							
Pabna	78·7	—0·4	83	27	*	...	...	...	62·2	59·2	15·7	+ 1·6	83	+4	...	0·00	—0·40	0·00	...	0	—0·9	...	...
KASHMIR																							
Jammu*																							
Kargil*																							
IRAN																							
Zahidan *																							

*Data not available.

TABLE V.—ABSTRACT OF OBSERVATIONS RECORDED AT 0230 HRS. G. M. T. AT 5TH CLASS STATIONS—JANUARY, 1949.

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 BENGAL (North)							
	Rajshahi (R)						
	Sirajganj	0·00	—0·38	0·00		0	—0·8
	Rangpur	0·21	—0·13	0·17	18	1	+0·2
KASHMIR							
	Sonamarg*						
	Gurez*						
BALUCHISTAN (North)							
	Harnai	0·00	—0·23	0·00	...	0	—0·4

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

GPPD—S-3—448 (Civil) 68—17-9-62—200

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PAKISTAN WEATHER REVIEW, 1949.

Monthly Weather Report.

February.

PUBLISHED BY THE AUTHORITY OF GOVERNMENT OF PAKISTAN.

Chief Features.—Passage of two active western disturbances causing spell of wet weather over most of Western Pakistan on the first two days and from 10 to 13th.

West Pakistan—Six western disturbances affected West Pakistan during the month. The first western disturbance started affecting the N. W. F. P. on 1st and intensified further on the 2nd. It caused local rain in Northeast Baluchistan and adjoining N. W. F. P. on the first and widespread thundershowers in Northeast Baluchistan, N. W. F. P. and Punjab hills and fairly widespread duststorms in Northwest Baluchistan and local rain in the plains of the Punjab on the 2nd.

The second western disturbance was responsible for fairly widespread rain or snow in N. W. F. P. and Northwest Punjab on the 5th.

Another western disturbance which lay in active over Baluchistan from 7th to 9th intensified practically into a depression and continued to affect Western Pakistan till the 13th. It caused local showers in the Lower N. W. F. P. and northwest Punjab on the 12th, local showers in the Punjab on the 13th and a few falls in Northeast Baluchistan and Upper Sind from 10th to 12th. In its rear steep pressure gradient caused moderate to strong dust-raising winds in South Baluchistan and Lower Sind on the 11th.

Three other moderately active western disturbances affected Western Pakistan causing a few showers in the extreme north on the 6th, local rain in the N. W. F. P. and the Punjab on the 20th and scattered on 21st, scattered rain in the N. W. F. P. on the 22nd and local dust/thunderstorms in north Baluchistan on the 20th.

The total rainfall during the month was in large excess in West Punjab, normal in the Lower N. W. F. P. in moderate defect in North Baluchistan and in large defect in Upper N. W. F. P., South Baluchistan and Sind. Averaged over the plains of Western Pakistan, it was in moderate excess.

The mean maximum and minimum temperatures were normal in the region except in Lower Sind where the mean maximum was above normal. The mean relative humidity was in excess in West Punjab and in defect in the N. W. F. P. and South Baluchistan and normal elsewhere. Skies were more clouded than usual in the Lower N. W. F. P. and less clouded than usual in the Southwest Punjab, South Baluchistan and Lower Sind.

East Pakistan—Weather remained dry in the region except for scattered showers on the 5th and 27th. Local showers were also reported from the southeastern districts on the 14th.

The total rainfall during the month was in moderate defect in the northern sub-division and in large defect elsewhere in the region.

The mean maximum and minimum temperatures were normal. The mean relative humidity was in defect in the northern sub-division and normal elsewhere. Skies were less clouded than usual.

Table 1 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—FEBRUARY, 1949.

Division.	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0230 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.		Degree. F	Degree. F	mb	%	Oktas
1. East Bengal	0·29	0·96	—0·67	—70	+0·1	+0·2	0	+1	—1·0
Mean of East Pakistan	0·29	0·96	—0·67	—70	+0·1	+0·2	0	+1	—1·0
2. West Punjab	1·99	0·96	+1·03	+107	—1·4	—0·5	+0·2	+6	—0·5
3. N.W.F.P.	1·06	1·23	—0·17	—14	—1·3	—0·3	—0·3	—8	+0·7
4. Baluchistan	0·44	1·20	—0·76	—63	+1·1	—1·2	—1·1	—4	—0·7
5. Sind	0·01	0·33	—0·32	—97	+1·3	—0·6	—0·9	—3	—0·5
Mean of West Pakistan excluding Baluchistan	1·16	0·78	+0·38	+49	—0·5	—0·5	—0·3	+1	—0·3
SUB-DIVISION									
1. East Bengal (North)	0·52	0·75	—0·23	—31	0·0	+0·3	—0·3	—8	—0·8
2. East Bengal (East	0·15	1·05	—0·90	—86	+0·6	+0·9	+0·5	+3	—1·0
3. East Bengal (Deltaic)	0·20	1·08	—0·88	—81	—0·4	—0·9	—0·5	+3	—1·2
4. Kashmir*	...	...	...	...	...	...	...	...	...
5. North-West Punjab	2·47	1·32	+1·15	+87	—1·4	—0·6	+0·3	+6	—0·1
6. South-West Punjab	0·52	0·35	+0·17	+49	—1·4	—0·3	—0·1	+6	—1·1
7. N.-W.F.P. (Upper)	0·69	1·53	—0·84	—55	—1·8	—1·3	—0·4	—7	—0·4
8. N.-W.F.P. (Lower)	1·19	1·14	+0·05	+4	—1·1	+0·3	—0·3	—8	+1·2
9. Baluchistan (North)	0·69	1·11	—0·42	—38	+1·0	—1·2	—0·2	+2	—0·5
10. Baluchistan (South)	0·00	1·36	—1·36	—100	+1·1	—1·3	—2·9	—13	—1·3
11. Sind (Upper)	0·03	0·31	—0·28	—90	—0·3	—1·9	—1·1	—2	—0·2
12. Sind (Lower)	0·00	0·35	—0·35	—100	+2·4	+0·3	—0·7	—3	—0·8

*Data Incomplete.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 0230 HRS. G.M.T AND 1130 HRS. G. M. T.—FEBRUARY, 1949

STATIONS.	Height of bar. cistern above mean sea level in feet.	Pressure at Stations level in millibars.			Pressure at M. S. L. in millibars		Maximum temperature °F				Minimum temperature. °F				Dry bulb temperature. °F		Wet bulb temperature. °F		Vapour pressure Millibars.		
		Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs G.M.T.	Mean 1130 hrs. G.M.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0230 hrs. G.M.T.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 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
EAST BENGAL (North).																					
Bogra	63	1011·8	—0·9	1000·9	1014·1	1011·3	80·5	+0·2	93	26	54·5	—0·4	47	8	63·9	77·2	56·7	62·6	12·7	—1·9	12·8
Dinajpur	123	1009·4	—1·1	1006·4	1013·8	1010·6	80·2	+0·9	91	25,26	54·4	+1·1	45	9	61·9	75·8	58·3	62·8	15·2	+1·3	13·8
EAST BENGAL (East).																					
Cox's Bazar ...	38	1012·5	—0·8	1009·5	1013·8	1010·8	81·9	—0·2	93	27	59·1	—0·4	49	10	69·7	75·5	64·0	66·6	18·2	0	17·8
Chittagong (R)	87																				
Comilla ...	29	1012·6	—1·6	1009·1	1013·6	1010·1	83·0	0·8	95	27	58·6	+1·1	48	10	64·9	80·0	61·9	65·7	17·6	+0·1	14·9
Narayanganj ...	26	1012·7	—1·4	1009·7	1013·5	1010·5	83·4	+1·7	92	26,27	59·5	+0·5	50	8,9	69·3	78·3	62·8	64·4	16·4	—0·4	14·1
Brahmanbaria ...	32	1012·8	...	1009·3	1014·0	1010·4	82·8	+0·1	94	27	57·5	+2·0	49	8,10,11	65·5	78·1	61·8	65·1	17·1	+1·3	15·2
Srimangal ...	69	1011·1	—1·6	1007·8	1013·6	1010·2	82·0	—0·7	94	26	50·8	—1·1	42	4 days	62·1	78·0	59·3	65·5	15·7	+0·2	15·8
Mymensingh ...	62	1010·3	—0·8	1008·6	1014·5	1010·8	81·7	+2·1	91	27	53·4	—3·3	48	4,10	63·7	74·8	60·6	67·8	17·0	+1·6	20·2
EAST BENGAL (Deltaic).																					
Faridpur ...	46	1012·0	—1·2	1008·5	1013·6	1010·1	77·3	—2·8	91	25	...	...	...	...	64·4	77·0	61·3	66·8	17·0	+0·4	18·1
Barisal	11	1013·1	—1·3	1010·0	1013·5	1010·4	83·0	+1·1	93	27	60·9	+0·8	51	10,11	68·5	78·3	63·6	66·5	18·1	—0·2	16·4
Khulna	16	1014·6	+0·1	1011·0	1015·2	1011·5	83·9	+0·9	95	27	58·9	—0·9	50	8,10	67·0	79·4	62·0	65·5	16·7	—0·1	14·8
Jessore	26	1013·1	—1·2	1009·5	1014·0	1010·4	80·7	—1·1	94	26	54·2	—1·3	43	8	63·1	79·1	60·4	64·4	16·9	+0·3	13·6
Satkhira	16	1012·8	—1·5	1009·4	1013·4	1010·0	84·5	0	96	27	56·2	—2·1	45	8	60·4	81·3	57·7	74·1	15·0	—2·3	28·4

(R) Register not received.

(a) Data not available.

Relative humidity. %			Cloud Amount (Eighths of Sky).			Precipitation.						Wind velocity in knots.		Wind direction—Number of winds from :— 0230 hrs. G.M.T.									1130 hrs. G.M.T.									STATION.
Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 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	
23	24	25	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
						inches	inches	inches			inches																					EAST BENGAL (North).
62	—14	41	1·3	—0·6	1·0	0·33	—6·46	0·26	7	1	—0·6	2·1	+1·0	4	2	3	2	0	4	4	2	7	5	0	2	1	0	2	13	3	2	Bogra
75	—2	47	0·9	—1·0	1·2	1·02	+0·41	0·76	7	2	+0·7	2·1	+0·4	0	8	3	0	3	6	2	2	4	0	2	1	0	3	6	4	2	10	Dinajpur
																																EAST BENGAL (East).
72	—2	62	0·5	—1·0	0·5							2·4	+0·4	1	4	5	1	0	0	0	0	17	1	0	0	0	4	2	0	11	10	Cox's Bazar
																																Chittagong (R)
83	+7	43	1·8	—0·4	1·7	0·05	—1·17	0·05	7	0	—1·9	3·4	+1·9	6	0	1	9	9	1	1	0	1	5	0	0	2	6	3	3	8	1	Comilla
71	—5	45	1·1	—1·4	0·3	0·23	—1·01	0·23	27	1	—0·9	2·1	+0·5	6	0	7	1	7	1	3	1	2	5	0	0	0	4	1	7	7	4	Narayanganj
80	+9	47	2·2	...	1·2	0·20	—0·83	0·18	14	1	—0·9	2·6	...	6	0	1	3	7	2	0	0	9	6	0	1	0	1	8	4	0	8	Brahmanbaria
85	+4	49	1·4	—0·7	1·6	0·06	—1·44	0·03	14, 27	0	—2·7	2·2	+0·2	3	1	2	3	1	0	0	0	18	0	0	4	1	3	0	13	1	6	Srimangal
83	+5	69	1·0	—1·3	0·9	0·22	—0·64	0·15	7	1	—0·7	1·5	+0·5	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	1	0	27	Mymensingh
																																EAST BENGAL (Deltaic).
82	+2	50	0·6	—1·4	1·1	0·15	—1·04	0·15	27	1	—1·1	2·5	+0·6	5	1	0	5	2	2	1	4	8	10	2	0	1	1	1	1	9	3	Faridpur
76	—2	51	1·2	—0·9	0·9	0·35	—0·59	0·35	14	1	—0·8	2·6	+1·2	3	0	0	1	0	2	0	2	20	0	1	0	2	0	1	0	2	22	Barisal
74	+2	45	0·8	—1·7	1·0	0·38	—0·55	0·38	8	1	—1·2	2·5	+0·4	3	1	0	0	1	3	1	1	18	4	0	0	1	1	0	6	3	13	Khulna
85	+8	41	0·9	—1·3	0·7	0·00	—1·21	0·05	7	0	—2·0	2·6	+1·3	4	5	1	2	5	1	0	5	5	5	0	1	1	0	2	5	11	3	Jessore
85	+5	79	1·9	—0·5	2·9	0·02	—1·01	0·02	7	0	—1·8	2·2	+0·9	0	0	0	0	0	4	0	12	12	0	1	0	0	0	8	0	17	2	Satkhira.

(R) Register not received

(...) Data not available

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 0230 HRS. G.M.T. AND 1130 HRS. G.M.T.—FEBRUARY 1949 *Contd.*

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure at stations level, in 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 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Mean 1130 hrs. G.M.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0230 hrs. G.M.T.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 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
KASHMIR																								
Srinagar (×)	5205																							
Gulmarg (×)	8709																							
Dras (×)	10059																							
Leh (×)	11529																							
Skardu (×)	7505																							
Gilgit (×)	4890																							
Miaqar	10190	693·9	...	692·1	697·8	695·9	34·0	...	44	20	8·1	...	15	9	17·7	31·1	15·2	28·0	1·9	...	5·2	69	...	73
NORTH. PUNJAB																								
Lahore	702	988·9	—1·5	987·8	1014·5	1012·5	69·3	—2·8	82	21	45·5	+1·0	40	9,10	48·6	67·6	46·6	55·3	9·3	+0·4	9·4	66	+8	45
Sialkot	830	984·3	—1·6	983·2	1014·5	1012·3	68·0	—1·4	77	4 days	46·7	+1·2	41	8,9,15	50·4	65·8	47·8	57·7	10·2	—0·2	12·2	82	—4	59
Jhelum	765	987·0	...	985·5	1015·1	1012·5	68·7	...	79	20	44·1	...	38	1	47·6	67·0	45·5	54·9	9·4	...	9·3	85	...	45
Rawalpindi	1674	955·5	—1·5	954·1	1015·8	1012·9	64·0	—1·2	74	19	40·7	—1·0	35	1	44·1	61·3	42·3	52·0	8·5	+0·2	9·4	86	—5	51
Khushab	616	992·3	—1·9	990·3	1014·9	1012·6	71·1	—0·2	82	20,21	42·2	—3·8	37	13	48·3	69·1	45·5	57·1	9·3	+1·2	11·1	80	+12	47
Lyallpur	605	992·0	—1·6	990·9	1014·3	1012·3	69·8	—1·5	80	28	44·8	—0·3	41	4 days	46·8	68·2	44·8	56·1	9·2	+0·1	9·9	85	+7	45
SOUTH PUNJAB																								
Montgomery ...	558	994·5	—1·8	992·8	1015·0	1012·4	70·6	—1·9	82	21	46·1	—0·3	40	6,7	48·3	69·7	45·9	56·2	9·4	—0·4	9·3	82	+1	40
Multan (R)	413																							
Port Abbas	475	(m) 998·2	...	(m) 996·2	1014·9	1012·3	76·0	...	91	21,22	44·4	...	39	4 days	48·7	73·4	45·3	56·1	8·6	...	7·6	75	...	31
Bahawalpur	384	1000.3	—1·1	998·5	1014·4	1012·1	73·2	—2·4	81	28	45·7	—1·2	39	6,7	48·3	72·2	46·1	58·9	9·6	+0·3	11·0	84	+14	41
Khanpur ...	297	1004·0	—0·5	1001·3	1014·9	1011·8	77·5	0	89	21	47·3	+0·6	36	6	49·5	76·1	45.5	57·4	8·6	—0·1	7·7	71	+2	25
N.W.F.P. (Upper.																								
Chakdara	2197	936·5	...	935·5	1016·2	1012·8	59·5	...	70	19,27	39·8	...	32	1	42·5	58·6	40·3	52·8	7·6	...	11·3	82	...	49
Peshawar	1175	973·9	—1·5	972·5	1016·6	1013·9	64·4	—1·8	75	19,20	42·7	—1·3	36	6	46·7	63·4	42·8	51·3	7·7	—0·4	7·5	72	—7	41
Landikotal	3503	896·2	...	894·7	901·3	899·3	55·7	...	65	20,23,28	35·6	...	28	1,2,14	41·9	53·2	37·4	44·0	5·6	...	5·6	65	...	47
N.W.F.P. (Lower)																								
Bannu	1264	969·5	...	965·6	1017·6	1013·4	67·5	—1·1	76	22,27,28	46·5	+1·3	38	6,7	48·9	65·7	43·8	51·0	7·5	—0·4	6·3	80	—9	35
Miranshah	3026	907·8	...	907·7	898·7	897·2	60·0	—1·1	69	19,20,27	40·7	—0·8	34	9	43·3	58·6	38·6	46·7	6·1	+0·1	6·2	66	—7	41
D. I. Khan	570	*	—	*	—	*	*	—	—	—	*	—	—	—	48·4	70·0	43·4	53·8	8·0	—0·5	9·1	85	—9	31

(×) Data not available (R) Register not Received. * Data Rejected. (m) mean for 18 days. (n) mean for 17 days.

Cloud Amount (Eighths of Sky.)			Precipitation inches.						Wind velocity, knots.		Wind direction—No. of winds from :—																		STATION.
											0230 hrs. G.M.T.									1130 hrs. G.M.T.									
Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 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
																													KASHMIR
																													Srinagar (×)
																													Gulmarg (×)
																													Dras (×)
																													Leh (×)
																													Shardu (×)
																													Gilgit (×)
6·2	...	7·0	0·32	...	0·14	4	2	...	4·3	...	2	2	2	1	1	0	13	7	0	0	1	9	12	0	1	5	0	0	Misgar
																													(North) PUNJAB
3·3	+0·2	3·0	1·61	+0·64	0·57	3	5	+2·9	3·0	+1·5	0	3	2	1	0	0	1	3	18	2	4	0	1	0	0	6	9	6	Lahore
3·2	+0·6	3·9	4·73	+3·06	1·60	4	6	+3·0	2·0	+0·8	5	2	1	2	2	0	3	10	3	0	3	2	2	2	2	6	10	1	Sialkot
3·7	...	3·7	2·09	...	0·77	4	4	...	2·6	...	0	0	0	0	2	0	0	7	19	2	0	2	2	0	0	7	10	5	Jhelum
3·5	+0·2	4·4	3·98	+1·30	1·22	2	5	+0·6	3·0	+1·2	3	1	1	0	1	1	3	0	18	0	2	1	0	0	3	11	1	10	Rawalpindi
2·6	—0·4	2·0	0·73	—0·19	0·36	4	3	+0·9	1·1	—1·6	1	3	2	0	0	0	0	1	21	4	8	2	1	0	0	0	0	13	Khushab
2·9	—0·9	1·7	1·30	+0·73	0·46	5	5	+3·4	1·1	—0·6	3	2	0	0	0	1	2	0	20	4	3	1	0	0	3	4	7	6	Lyallpur
																													(South) PUNJAB
2·3	—0·1	2·3	1·26	+0·76	0·61	13	3	+1·5	1·4	—1·0	1	0	0	1	0	0	0	2	24	3	3	0	0	0	0	2	1	19	Montgomery
																													Multan (R)
1·8	...	2·0	0·00	...	0·00	...	0	...	3·0	...	3	6	5	4	2	1	0	0	7	7	6	1	1	0	2	4	3	4	Fort Abbas
0·9	—1·7	0·9	0·30	+0·04	0·30	13	1	+0·2	2·3	+0·1	1	1	0	0	0	0	0	0	26	3	2	0	0	5	2	1	0	15	Bahawalpur
1·5	—1·6	0·7	0·00	—0·29	0·00	...	0	—0·9	4·3	+0·0	6	5	3	1	1	0	3	2	7	2	9	1	0	3	5	3	3	2	Khanpur
																													N.W.F.P. (Upper)
3·7	...	4·0	3·56	...	0·75	2	7	...	3·8	...	0	6	2	0	0	0	0	14	6	0	1	5	1	1	12	1	4	3	Chakdara
4·7	—0·4	4·4	0·89	—0·84	0·27	2	4	+0·7	3·1	+1·5	0	1	0	2	9	8	1	0	7	8	5	2	0	4	0	0	1	8	Peshawar
3·9	...	3·9	0·85	...	0·30	2	5	...	1·5	...	3	1	2	0	0	2	4	5	11	6	5	1	0	0	0	3	9	4	Landikotal
																													N.W.F.P. (Lower)
4·0	+1·5	3·1	0·89	—0·29	0·48	2	3	—0·1	3·0	...	2	1	1	0	0	1	8	7	8	2	1	5	10	4	0	0	1	5	Bannu
3·5	+0·9	3·5	1·62	+0·06	0·76	2	5	+0·9	4·1	+0·6	2	6	2	1	0	1	3	5	8	0	2	9	13	1	1	0	0	2	Miranshah
*	*	*	1·65	+0·38	1·05	12	1	—0·7	1·6	+0·4	2	1	0	0	2	1	9	4	9	3	6	3	2	0	0	0	0	16	D. I. Khan

(×) Data not available.

(R) Register not received
*—Data rejected

(M) Mean for 18 days
(N) Mean for 17 days

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 0230 HRS. AND 1130 HRS. G.M.T. FEBRUARY, 1949.

STATION	Elevation of instrument in feet: Bar. cistern above sea level	Barometer above ground	Pressure at stations level, in millibars: Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 hrs. G.M.T.	Pressure at M.S.L. millibars: Mean 0230 hrs. G.M.T.	Mean 1130 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 0230 hrs. G.M.T.	Mean 1130 hrs. G.M.T.	Wet bulb temperature °F: Mean 0230 hrs. G.M.T.	Mean 1130 hrs. G.M.T.	Vapour pressure, millibars: Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 hrs. G.M.T.	Mean temperature °F: Departure from normal.
1	2	2(a)	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23 (a)
BALUCHISTAN (North)																							
Fort Sandeman ...	4614	28	859·4	-0·7	858·2	900·9	897·0	59·5	-0·2	75	21	35·2	—0·2	28	6	38·3	58·0	34·4	45·4	5·0	-0·8	5·4	0·0
Hindubagh (R) ...	5950	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Loralai (R) ...	4699	23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hamai ...	—																						
Sibi ...	441	23	999·8	+0·4	996·2	1015·2	1011·6	75·8	+0·1	87	21	49·1	—0·6	40	6,7	52·9	74·8	44·3	55·1	6·2	-1·4	6·3	...
Quetta ...	5490	18	831·1	—2·5	829·0	793·7	793·2	54·4	...	72	20	31·7	...	22	24	35·3	53·3	34·6	51·5	6·5	...	12·2	...
Quetta (Sumangli) ...	5253	7	840·9	...	839·2	795·7	795·6	55·9	...	73	2,8	31·9	...	18	4 days	35·2	54·6	32·2	45·5	3·1	...	7·1	...
Chaman ...	4311	20	869·8	—0·1	864·9	906·2	901·3	57·4	+0·1	71	20	39·3	+1·2	28	13	44·4	56·2	39·9	50·1	6·6	+0·7	9·9	+0·7
Nushki ...	3412	21	902·2	...	898·3	903·9	900·4	67·0	...	81	20	4·51	...	30	13	49·8	66·0	43·5	52·9	7·2	...	8·9	...
Kalat ...	6616	23	798·8	—0·2	797·8	796·2	794·9	53·7	—0·9	67	20,28	28·3	—2·9	17	24	33·1	51·1	32·3	46·2	5·9	+1·2	8·8	—·9
Dalbandin ...	2785	7	918·8	—0·2	916·5	899·6	898·5	70·9	+3·4	83	20,21	36·8	—2·8	24	6	41·7	67·1	36·6	54·4	5·4	—1·8	9·3	+0·3
Nokkundi ...	2229	2	936·6	...	934·1	1012·0	1000·9	76·0	+3·3	87	20,21	43·4	—3·6	31	13	46·9	72·1	41·7	53·6	6·9	—0·4	6·5	—0·1
BALUCHISTAN (South)																							
Las Bela ...	292	23	1004·2	0·0	1001·3	1014·7	1011·3	...	...	...	...	51·3	0·0	40	7	57.5	84·0	48·6	62·1	7·6	—5·2	9·1	+0·5
Ormara ...	15	7	1013·9	...	1011·8	1014·3	1012·4	77·5	+1·7	83	25,28	57·6	—2·6	50	4 days	60·7	75·8	56·3	66·4	13·4	—2·8	17·9	—0·5
Pasni ...	10	15	1014·4	—0·8	1012·3	1014·7	1012·6	77·6	+0·7	85	22	55·3	—1·3	46	13	58·3	75·9	54·7	71·3	12·9	—1·8	24·3	—0·8
Turbat(R)...	510	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Panigur ...	3177	13	905·5	—0·3	903·7	899·5	898·1	69·2	+1·2	80	20	...	...	...	...	43·2	68·0	38·7	52·9	6·1	—1·6	16·5	...
SIND (Upper)																							
Reti (R) ...	280	25																					
Jacobabad ...	183	27	1007·8	—1·1	1005·3	1014·6	1011·8	78·2	+1·1	87	22	49·4	—1·1	40	6	52·1	77·3	45·4	60·1	7·3	—1·6	9·8	0·0
Sukkur ...	221	29	1006·0	—0·7	1003·8	1014·1	1011·1	77·0	—1·7	89	20	49·4	—2·6	43	5,8	52·4	76·6	47·0	57·3	8·8	—0·7	13·4	—20·1
Padidan ...	153	23	1008·8	...	1006·2	1014·6	1011·5	79·8	...	85	28	45·5	...	35	13	49·2	78·8	44·6	57·4	8·0	...	6·5	...
SIND (Lower)																							
Umerkot ...	55	22	1011·9	...	1009·4	1013·9	1011·2	82·3	...	90	21	51·8	...	42	5	58·1	82·3	52·4	71·2	10·8	...	21·0	...
Hyderabad ...	96	24	1010·1	—1·8	1007·7	1013·4	1011·3	83·3	+2·1	94	20	54·7	+0·2	46	6	57·1	81·7	51·2	59·8	10·1	+0·1	7·9	+1·1
Karachi (Air port)	73	25	1011·6	...	1009·6	1014·3	1012·2	81·1	...	89	19	55·4	...	45	6,7	58·9	78·9	53·7	66·3	11·8	...	16·6	...
Karachi (Manora) ...	13	36	1013·6	—1·3	1011·6	1014·1	1012·1	78·6	+1·7	86	28	62·7	+1·7	56	6,7,8	65·1	76·1	58·5	65·1	13·7	—0·7	16·1	+1·7
Badin ...	31	22	1012·6	—0·7	1010·3	1014·1	1011·4	85·7	+3·3	92	28	53·4	—1·1	43	13	56·5	83·4	51·8	61·3	10·8	—1·5	8·9	+0·1
HILLS STATIONS (excluding Kashmir and Baluchistan).																							
Murree ...	7113		781·8	—1·3	781·8	794·0	793·8	44·4	—2·3	56	19,20	30·9	—0·2	19	6	34·6	41·5	31·4	36·0	4·8	+0·1	5·3	
Cherat ...	4272		869·6	—1·1	869·3	900·0	899·0	50·0	—1·9	61	27	40·2	—0·5	31	5,6	43·2	49·1	35·6	40·3	3·8	—1·4	4·6	
Drosh ...	4806		855·9	—0·3	853·8	903·9	900·7	47·0	—2·0	56	20	32·3	—1·3	29	4 days	35·1	46·0	31·6	37·2	4·6	—0·5	4·1	
Parachinar ...	5673		824·9	—1·6	824·9	793·3	794·3	47·3	—4·5	63	20	30·8	—0·5	21	5,6	33·8	48·6	31·0	40·1	4·9	0·0	5·4	
Wana ...	4456		860·8	...	861·6	896·8	896·8	55·3	—2·8	60	20	32·7	+0·2	26	6	40·4	53·1	39·1	51·8	7·6	+2·1	12·6	
AFGHANISTAN																							
Jalalabad ...	1950		942·6	...	941·1	1012·6	1008·5	63·8	...	76	19	40·1	...	32	6,7,8	44·1	62·8	39·8	50·9	6·3	...	7·3	
Kabul ...	5955		820·5	...	819·5	797·6	796·9	43·4	+1·2	54	20,27,28	26·0	+2·0	15	8	29·2	40·9	26·8	35·4	3·9	+0·7	5·4	
Kandahar ...	3462		904·1	...	902·1	907·8	905·8	62·1	...	75	20	34·2	...	23	12	38·6	60·3	35·2	47·2	5·6	...	5·8	

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

TABLE II. ABSTRACT OF OBSERVATIONS RECORDED AT 0230 HRS. G·M.T. AND 1130 HRS. G. M. T. FEBRAURY, 1949. *Contd.*

Relative humidity %			Cloud Amount (eighths of Sky.)			Precipitation inches						Wind velocity, knots		Wind direction—No. of winds from :— 0230 hrs. G.M.T.									1130 hrs. G.M.T.									STATION.
Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 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	
23	24	25	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
																																BALUCHISTAN (North)
70	-4	35	3·2	+0·5	3·0	0·65	—0·43	0·51	2	1	—2·3	2·6	+0·4	2	0	0	1	1	1	1	1	21	4	2	0	0	0	7	6	4	5	Fort Sandeman
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Hindubagh (R)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Loralai
...	...	...	...	...	...	1·81	+0·48	1·42	2	3	+0·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	~~Parachinar~~
45	-6	20	2·5	0·0	2·6	0·27	—0·60	0·16	2	2	+0·3	2·8	+0·4	1	1	2	2	0	0	2	6	14	0	1	4	3	0	6	8	4	2	Sibi
95	+17	89	2·8	—0·4	3·6	1·06	...	0·57	2	2	...	6·0	+3·4	4	1	3	3	5	6	1	1	4	3	1	0	0	7	8	5	4	0	Quetta
74	...	50	3·1	...	3·2	0·42	...	0·30	18	0	...	8·2	...	0	0	9	5	1	5	1	0	7	0	0	0	5	2	5	9	7	0	Quetta (Samungli)
70	—6	65	2·0	—1·1	1·6	1·29	—0·43	0·86	2	3	—1·4	...	...	0	0	3	6	6	4	0	0	9	1	1	0	0	5	10	5	5	1	Chaman
57	...	39	1·8	...	2·4	0·32	...	0·25	2	2	...	9·4	...	2	1	13	3	2	2	4	0	1	0	0	0	0	3	3	21	1	0	Nushki
93	+22	69	2·9	+0·1	2·5	0·83	—0·56	0·30	2,3	3	—0·4	6·0	+1·6	0	0	0	3	8	6	0	3	8	0	0	0	0	6	10	0	11	1	Kalat
60	—9	34	1·4	—1·2	1·4	0·00	—0·96	0·00	...	0	—2·2	5·4	+1·9	3	5	0	0	0	1	1	3	15	0	5	2	1	2	6	4	6	2	Dalbandin
46	—5	26	1·4	—1·1	1·9	0·00	—0·40	0·00	...	0	—1·1	7·6	+1·9	7	16	1	0	0	0	0	3	1	4	2	2	7	3	1	3	4	2	Nokkundi
																																BALUCHISTAN (South)
47	—27	28	1·3	—0·5	1·9	0·00	—0·88	0·00	...	0	—2·0	2·1	—0·3	5	5	0	0	0	0	0	0	18	12	14	0	1	0	0	0	0	1	Las Bela
74	—10	59	1·4	—1·4	1·5	0·00	—2·19	0·00	...	0	—3·3	8·2	+2·7	9	5	0	0	0	0	0	0	14	16	12	0	0	0	0	0	0	0	Ormara
78	—4	79	0·0	—2·3	0·0	0·00	—1·41	0·00	...	0	—2·0	6·8	+1·7	3	0	0	0	0	1	8	0	16	4	0	6	0	1	2	13	0	2	Pasni
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Turbat (R).
61	—13	30	1·3	—0·8	1·5	0·00	—0·96	0·00	...	0	—1·9	5·8	+1·1	2	10	3	0	0	2	0	3	8	2	0	0	0	2	16	2	6	0	Panjgur
																																SIND (Upper)
56	—6	32	1·5	—0·5	1·3	0·06	—0·27	0·06	11	0	—0·9	5·1	+1·9	1	5	4	2	0	1	2	5	8	1	4	2	8	2	1	0	7	3	Jacobabad.
63	+2	24	1·7	+0·1	1·3	0·00	—0·28	0·00	...	0	—0·8	3·2	+0·6	2	7	6	7	0	1	0	2	3	3	6	5	6	1	1	1	5	0	Sukkur
67	...	20	1·4	...	0·9	0·00	...	0·00	...	0	...	4·4	...	6	4	2	0	0	2	2	2	10	5	4	0	1	4	3	2	4	5	Padidan
																																SIND (Lower)
66	...	56	0·3	...	0·1	0·00	...	0	...	0	...	4·1	...	9	2	3	0	11	2	1	0	0	11	1	0	0	2	6	4	4	0	Umerkot
63	+1	21	0·5	—1·2	1·1	0·00	—0·24	0·00	...	0	—0·6	3·4	—0·1	13	0	0	0	0	8	1	0	6	7	3	2	1	2	6	2	2	3	Hyderabad.
68	...	50	1·6	...	1·9	0·00	...	0·00	...	0	...	8·6	...	7	4	0	0	0	2	4	3	8	0	3	4	1	3	9	6	2	0	Karachi (Air Port,)
65	—7	54	2·0	—0·1	1·7	0·01	—0·43	0·01	12	0	—1·0	8·0	+2·1	2	10	3	0	0	1	7	1	4	0	0	0	2	2	10	10	1	3	Karachi (Manora)
67	—3	22	0·9	—1·0	0·0	0·00	—0·38	0·00	...	0	—0·9	1·6	...	0	0	0	0	0	0	1	0	27	(d) 1	0	1	0	0	0	7	0	18	Badin
																																HILL STATIONS (excluding Kashmir and Baluchistan).
73	+9	64	4·2	+0·4	5·5	6·87	+2·56	2·30	6	8	+1·6	6·0	+0·7	0	10	8	4	0	0	1	1	4	0	0	7	7	0	0	2	0	12	Murree
49	—10	47	3·5	0·0	3·1	2·02	—1·19	0·55	2	6	+1·3	11·7	+3·5	27	0	0	0	0	1	0	0	0	23	0	1	1	3	0	0	0	0	Cherat
69	—5	41	4·7	+0·8	5·3	2·05	+0·50	0·54	3	5	+1·3	4·3	+1·8	1	2	2	12	0	3	0	0	8	0	13	0	6	0	3	3	0	3	Drosh
76	+5	48	7·9	+4·5	5·1	3·29	—0·66	1·13	21	7	+1·6	2·9	+0·9	9	4	0	0	1	3	0	5	6	1	1	1	5	4	6	3	5	2	Parachinar
89	+10	90	1·6	—1·2	1·6	2·55	+1·07	1·35	2	3	—0·6	2·2	...	0	0	0	0	2	3	0	1	22	0	0	0	2	1	3	3	1	18	Wana
																																AFGHANISTAN
69	...	43	5·2	...	5·1	0·54	...	0·27	2	2	...	2·8	...	1	0	1	0	0	7	12	4	3	5	2	2	1	3	5	2	4	4	Jalalabad
71	—4	62	4·8	+0·5	4·9	1·92	+0·43	0·79	21	5	+1·6	3·9	+0·8	2	1	1	0	9	9	2	1	3	2	4	2	2	3	4	3	2	6	Kabul
64	...	33	2·3	...	2·9	1·06	...	0·65	2	3	...	3·1	...	0	3	0	1	0	2	0	0	22	0	3	0	2	0	10	0	3	10	Kandahar.

(R) Register not received (d) mean of 27 days.

TABLE III.—ABSTRACT OF OBSERVATIONS RECORDED AT 0400 HRS. G. M. T. AND 1200 HRS. G.M.T. FEBRUARY, 1949.

STATIONS.	Height of bar. above mean sea level in feet.	Pressure at Station level in millibars			Pressure at M. S. L. in millibars		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure millibars.			Relative humidity %		
		Mean 0400 hrs. G.M.T.	Departure from normal.	Mean 1200 hrs. G.M.T.	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean	Departure from normal.	Highest.	Date.	Mean	Departure from normal.	Lowest	Date	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0400 hrs. G.M.T.	Departure from normal.	Mean 1200 hrs. G.M.T.	Mean 0400 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
IRAN.																								
Jask	13	1015·5	...	1013·2	1016·0	1013·7	74·8	—0·6	80	1	62·9	+1·1	80	1	66·1	72·9	59·7	63·0	16·3	+0·2	15·2	63	—11	56
Bushire	14	1017·3	...	1016·4	1017·8	1016·9	63·7	—2·0	74	27	48·7	—0·4	39	11,12	52·3	59·2	47·8	49·1	8·9	—4·2	7·4	70	—10	63
ARABIA																								
Muscat	20	1014·9	...	1013·0	1015·5	1013·5	72·9	—2·9	80	1	66·2	—0·4	60	1,2,13	68·2	71·7	62·2	65·1	16·3	—1·5	18·5	70	—4	68
Sharjah	18	1015·6	...	1013·8	1016·2	1014·4	73·8	—1·8	86	27	54·0	—2·4	47	4 days	59·0	71·0	55·0	62·5	13·0	—0·7	15·5	76	—1	60
Kuwait	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

(R) Register not received.

Cloud Amount OKTAS.			Precipitation inches						Wind velocity knots per hour.		Wind direction—No. of winds from :—																		STATIONS.
											0400 hrs. G.M.T.									1200 hrs. G.M.T.									
Mean 0400 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
																													IRAN
1·7	—1·3	1·3	000	—0·96	000	...	0	—1·8	13·1	...	3	7	10	0	0	1	2	4	1	0	0	4	3	3	8	10	0	0	Jask.
1·5	...	1·3	038	—1·41	020	1	2	—1·4	7·4	...	9	3	2	1	1	0	0	4	8	0	0	0	0	4 (calm)	0	6	16	1	Bushire.
																													ARABIA.
0·3	—1·8	0·3	000	—0·71	000	...	0	—1·4	6·4	+2·7	0	0	0	0	1	1	1	8	17	2	8	0	0	0	2	0	16	0	Muscat.
2·1	—1·8	1·7	000	—1·00	000	...	0	—0·7	8·7	+1·1	1	1	1	3	9	3	5	0	5	2	1	1	0	0	2	15	7	0	Sharjah.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kuwait (R)

(R) Register not received.

 TABLE IV.—ABSTRACT OF OBSERVATIONS RECORDED AT 0230 HRS. G.M.T. AT 4TH CLASS STATIONS—FEBRUARY, 1949.

STATIONS.	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature °F 0230 hrs. G.M.T.	Mean wet bulb temperature °F 0230 hrs. G.M.T.	Vapour pressure, inches.		Relative Humidity %		Mean cloud amount 0230 hrs. G.M.T.	Precipitation						Wind.	
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.			Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 0230 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 0230 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
																inches	inches	inches			inches		
EAST BENGAL (North)																							
Pabna	81·8	—1·2	95	26	...	...	...	...	65·1	60·3	15·4	—0·4	73	—1	...	0·16	—0·80	0·16	7	1	-0·9 ~~-09~~	...	...
KASHMIR																							
Jammu ×																							
Kargil ×																							
IRAN																							
Zahidan ...																							

× Data not available.

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
		Inches	Inches	Inches			Inches
EAST BENGAL (North)							
	Rajshahi (R)	...	...	...	...	...	...
	Sirajganj	0·24	—0·50	0·24	7	1	—0·7
	Rangpur	0·87	+0·17	0·66	7	2	+0·7
KASHMIR							
	Sonamarg ×						
	Gurez ×						
BALUCHISTAN (North)							
	Harnai	0·00	—0·94	0·00	...	0	—1·4

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

GPPD—S-3—449 (Civil) 60—18-10-63—200.

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT

ERRATA TO MONTHLY WEATHER REPORT FOR MARCH 1949

S.No.	Page.	Station	Col. No.	Hour.	Remarks. For	Read.
1.	4	Bogra	11	-	10,30	30,31
2	4	Cox's Bazar	2	-	28	38
3.	4	Faridpur	5	1200	1006.8	1005.8
4.	5	Srimangal	30	-	-3.06	-0.36
5.	5	Barisal	45	0300	4	21
6.	11	Sharjab	1 & 55	-	Shanjah	sharjah

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PAKISTAN WEATHER REVIEW 1949

Monthly Weather Report

March

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Chief Features.—1. A spell of wet Weather practically over the whole of West Pakistan between the 7th and 13th.

2. Pronounced rainfall activity and violent thundersquals in East Pakistan between the 19th and 21st.

West Pakistan.—Fourteen Western disturbances affected the West Pakistan. The first western disturbance moved across the region in the beginning of the month and caused only light rain or drizzle at a few places in the N.W.F.P and northeast Baluchistan on the 1st. It was closely followed by two western disturbances which moving eastwards across the northern part, caused local thundershowers in the N.W.F.P and the Punjab hills and scattered in the plains of the Punjab on the 3rd and the 4th.

Thereafter seven western disturbances moved across the region in close succession and caused fairly widespread and locally heavy rainfall practically throughout the region between the 7th and the 13th, in north Baluchistan, N.W.F.P. & the Punjab hills between the 9th and the 11th and lighter rain elsewhere in West Pakistan, and mainly scattered to local on two days before and after this period over the whole of West Pakistan.

During the rest of the month four western disturbances influenced the weather over the region while the last one induced a secondary over north Rajasthan. They caused local to fairly widespread thunderstorms or showers in the N.W.F.P. and the northwestern parts of the Punjab between the 18th and the 23rd and a few showers in upper Sind on the 22nd.

Principal amounts of rainfall during the month were, Sibi 3" and Hurnai 2" on the 9th ; Sibi 4" and Cherat 3" on the 10th and Chakdara 5" and Murree 3" on the 11th.

The total rainfall during the month was in large excess in northwest Punjab, lower N.W.F.P. Baluchistan and upper Sind, in slight excess in upper N.W.F.P. and in large defect in southwest Punjab and lower Sind.

Averaged over the plains of west Pakistan, it was in large excess.

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

East Pakistan.—A Western disturbance moved across the region towards the end of the first week and caused local rain on the 6th.

Thereafter, the weather was influenced by an active western disturbance which moved towards the end of the third week. It caused fairly widespread showers in the region with violent thundersqualls at some of the places between the 19th and the 21st, according to newspaper report s the thundersqualls caused some loss of life and damage to property.

Passage of another western disturbance, caused local thundershowers over the region on the 22nd and the 23rd.

Chief amounts of rainfall recorded were : Comilla and Narayanganj 4" each, Brahmanbaria 3" and Chittagong 2" on the 21st.

The total rainfall during the month was in moderate excess in esatern sub-division and in moderate defect elsewhere. Mean maximum and mean minimum temperatures were normal in all the sub-divisions except in eastern sub-division where the min. temperature was above normal. The mean relative humidity was also normal except in Deltaic Sub-division where it was in excess. Skies were less clouded than usual in the eastern and deltaic sub-divisions and normally clouded 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.

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TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS, MARCH, 1949.

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		Degree	Degree	Mb.	%	
East Bengal	2·04	1·90	+0·14	+7	+0·9	+1·1	+1·1	+4	—0·7
Mean of East Pakistan	2·04	1·90	+0·14	+7	+0·9	+1·1	+1·1	+4	—0·7
West Punjab	1·54	0·97	+0·57	+59	—0·9	+0·9	+1·2	+10	+0·6
N. W. F. P.	2·64	1·88	+0·76	+40	—1·0	+0·8	+0·4	+3	+0·7
Baluchistan	2·90	0·78	+2·12	+272	—0·1	+2·2	+1·3	+7	+0·8
Sind	0·47	0·22	+0·25	+114	0·0	+0·8	+0·8	+7	+1·2
Mean of West Pakistan excluding Baluchistan	1·36	0·87	+0·49	+56	—0·6	+0·8	+0·9	+8	+0·8
East Bengal (North)	0·73	1·08	—0·35	—32	+1·5	+0·8	+0·1	—2	—0·3
East Bengal (East)	3·46	2·50	+0·96	+38	+1·0	+2·0	+1·7	+4	—0·9
East Bengal (Deltaic)	1·29	1·91	—0·62	—32	+0·3	+0·1	+1·0	+6	—0·5
Kashmir*									
North West Punjab	2·10	1·31	+0·79	+60	—0·7	+0·8	+1·2	+11	+0·7
South West Punjab	0·12	0·40	—0·28	—70	—1·3	+1·0	+1·2	+9	+0·3
N. W. F. P. (Upper)	2·82	2·44	+0·38	+16	—2·0	—0·1	+0·6	+1	+0·6
N. W. F. P. (Lower)	2·58	1·69	+0·89	+53	—0·7	+1·2	+0·4	+4	+0·8
Baluchistan (North)	3·59	0·88	+2·71	+308	—0·7	+1·9	+1·6	+11	+1·1
Baluchistan (South)	1·68	0·59	+1·09	+185	+0·8	+2·9	+0·7	—1	+0·2
Sind (Upper)	1·19	0·23	+0·96	+417	—3·5	0·0	+0·2	+11	+1·7
Sind (Lower)	0·01	0·21	—0·20	—95	+2·3	+1·3	+1·2	+5	+0·9

(*) Data incomplete.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of bar cistern above mean sea level 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.		
		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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST BENGAL (North)																					
Bogra	63	1009·6	0	1004·9	1011·8	1007·1	92·5	+1·8	100	10,31	63·3	+0·3	53	17	72·9	88·3	64·9	66·6	17·5	—0·6	12·5
Dinajpur ...	123	1007·0	—0·3	1001·8	1011·3	1006·0	90·9	+1·7	100	29	62·2	+1·3	51	1,7	74·6	85·9	64·7	68·0	16·6	+0·7	15·3
EAST BENGAL (East)																					
Cox's Bazar ...	28	1011·4	0	1008·1	1012·7	1009·4	84·2	—2·1	90	1	68·3	+3·9	59	1,2	79·8	81·3	73·4	74·4	25·3	+0·6	25·5
Chittagong ...	87	1009·4	—2·4	1005·7	1012·4	1008·7	87·3	+0·2	94	8	70·0	+2·8	64	1,9,22	78·9	80·8	73·6	76·0	25·7	+2·2	28·4
Comilla	29	1010·9	—0·5	1007·5	1011·9	1008·5	91·5	+1·8	96	13	69·5	+2·4	56	1	77·6	86·3	72·4	71·5	25·5	+0·8	19·1
Narayanganj ...	26	1010·7	—0·8	1006·5	1011·6	1007·4	91·0	+1·2	96	26	69·0	+0·9	56	1	78·2	87·0	71·6	70·8	23·4	+1·0	18·7
Brahmanbaria ...	32	1010·8		1006·6	1011·9	1007·7	90·5	+0·5	95	4 days	67·9	+4·4	55	2	77·3	84·1	71·6	71·4	23·9	+2·8	20·7
Srimangal ...	69	1009·4	—0·9	1005·1	1011·9	1007·5	90·3	+0·1	94	6 days	63·0	+1·5	46	2	73·7	85·4	69·3	70·9	22·6	+1·8	18·9
Mymensingh ...	62	1010·3	—0·1	1006·0	1012·5	1008·2	89·3	+1·3	96	31	62·7	—2·0	57	1	73·4	85·2	69·2	73·0	22·4	+2·4	22·3
EAST BENGAL (Deltaic)																					
Faridpur ...	46	1010·2	—0·1	1006·8	1011·8	1007·4	86·8	—2·5	93	4 days	65·1	—0·7	53	1,17	78·6	86·7	72·1	74·3	24·3	+2 3	23·5
Barisal	11	1011·7	—0·2	1007·7	1012·1	1008·1	92·1	+2·5	98	26	70·3	+1·5	59	1	80·1	86·5	73·0	72·3	24·6	—0·5	21·4
Khulna	16	1011·4	—0·4	1007·9	1012·0	1008·5	92·5	+0·9	98	25,26	69·9	+1·5	57	1	76·3	86·8	71·7	77·2	24·3	+1·6	27 9
Jessore	26	1010·8	—0·5	1006·9	1011·7	1007·8	92·2	+0·3	97	29,30,31	62·3	—2·5	50	1	80·7	86·1	71·5	70·6	22·7	+0·5	18 5
Satkhira ...	16	1011·0	—0·4	1007·0	1011·6	1007·5	94·1	+0·4	99	25,26	68·5	+0·6	54	1	72·3	89·8	70·1	84·8	24·1	+1·2	38 8
KASHMIR																					
Srinagar (x) ...	5205																				
Gulmarg (x) ...	8709																				
Dras (x) ...	10059																				
Leh (x)	11529																				
Skardu (x) ...	7505																				
Gilgit (x) ...	4890																				
Misgar	10190	699·2	...	694·3	699·8	697·9	43·1	...	59	28	15·1	...	4	2	26·0	41·7	24·9	34·4	4·1		4·6

(x) Data

Relative humidity %			Cloud Amount (Eighths of Sky).			PRECIPITATION						Wind velocity in 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.	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	
23	24	25	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
						Inches	Inches	Inches																								
																																EAST BENGAL (North).
64	+1	30	1·8	—0·2	1·5	0·73	—0·41	0·40	19	2	0	2·7	+0·9	0	0	10	2	2	4	10	0	3	0	0	0	0	0	4	21	0	6	Bogra
57	—2	39	1·2	—0·5	1·0	1·00	+0·31	1·00	19	1	—0·4	2·6	+0·2	2	10	3	2	9	2	2	0	1	1	4	1	0	1	4	6	1	13	Dinajpur
																																EAST BENGAL (East).
73	—1	71	1·2	—1·0	0·7	(x)						3·1	+0·4	0	1	2	6	3	2	0	0	17	0	0	0	0	5	14	7	4	1	Cox's Bazar
77	+4	79	2·7	+0·2	1·8	2·94	+0·48	2·03	21	2	—0·5	5·1	+1·6	1	2	5	6	5	1	0	1	8	1	0	0	0	9	13	6	0	0	Chittagong
77	+5	46	3·5	+0·6	1·7	4·50	+1·49	3·70	21	3	—0·5	4·3	+0·9	0	0	0	2	18	4	3	1	3	2	0	1	2	10	6	9	1	0	Comilla
70	—1	44	1·0	—2·3	0·8	5·75	+3·36	4·33	21	4	+0·8	2·8	0	3	0	3	2	9	3	7	2	2	0	0	2	2	14	1	4	2	6	Narayanganj
75	+8	53	2·1	—1·9	1·3	3·85	+0·82	3·17	21	3	—0·7	3·3		0	0	1	1	20	4	2	1	2	1	0	1	0	11	5	3	1	9	Brahmanbaria
80	+6	48	2·2	—0·2	1·7	3·03	—3·06	1·19	21	5	+0·1	3·7	+0·4	2	0	7	4	9	1	1	0	7	3	0	6	2	4	1	7	4	4	Sirimangal
80	+9	55	1·8	—1·6	1·5	2·47	+0·63	0·86	19	4	+1·0	2·0	+0·4	0	0	3	4	0	0	3	0	21	1	0	0	1	0	0	3	0	26	Mymensingh
																																EAST BENGAL (Deltaic)
72	+6	54	1·5	—0·7	1·8	2·98	+0·88	2·05	21	3	+0·1	3·9	+0·6	2	0	1	4	9	6	3	2	4	3	2	1	3	5	7	3	3	4	Faridpur
72	—4	49	2·1	—0·7	1·6	0·30	—1·75	0·30	22	1	—2·1	3·3	+1·1	0	0	0	3	0	5	1	1	4	0	0	0	2	1	6	1	0	21	Barisal
79	+13	66	1·6	—1·3	1·3	1·00	—0·64	1·00	19	1	—1·3	2·9	—0·1	0	0	0	1	2	8	5	1	14	0	0	0	0	7	3	3	1	17	Khulna
64	—5	46	1·2	—1·3	1·4	1·17	—0·76	1·17	19	1	—1·9	4·0	+2·2	0	2	0	2	9	11	3	3	1	0	0	0	0	11	5	3	4	8	Jessore
88	+ 20	81	3·4	+1·5	3·0	0·99	—0·85	0·99	19	1	—1·5	3·0	+0·9	0	0	0	6	0	13	0	0	12	0	0	0	7	0	15	0	5	4	Satkhira
																																KASHMIR
																																Srinagar (x)
																																Gulmarg (x)
																																Dras (x)
																																Leh (x)
																																Skardu (x)
																																Gilgit (x)
88	...	52	6·1	...	7·1	0·22	...	0·07	10	0	...	4·9	—	0	6	6	1	1	4	8	5	0	1	1	20	7	0	1	1	0	0	Misgar

not available.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of bar cistern above mean sea level 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.		
		Mean 0030 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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
NORTH PUNJAB																					
Lahore	702	987·5	0·0	985·5	1012·4	1009·7	81·3	—1·3	95	30	56·2	+3·0	49	5	62·0	78·8	56·7	63·2	13·3	+1·8	12·9
Sialkot	830	982·9	—0·2	980·8	1012·4	1009·5	80·0	—0·1	94	30	56·3	+2·1	49	15	61·2	76·7	56·2	64·6	13·2	+0·7	15·5
Jhelum		985·7	...	983·5	1013·8	1013·9	79·3	...	92	31	54·3	...	46	5	60·9	77·1	55·4	61·6	12·5	...	11·8
Rawalpindi ...	1674	954·3	—0·6	953·3	1013·3	1010·5	73·5	—1·6	89	29	50·9	+0·5	45	18	57·4	70·0	52·0	57·5	11·4	+0·7	11·1
Khushab ...	616	990·7	—0·5	988·5	1012·7	1009·8	82·0	+0·7	95	29	53·4	—2·4	43	4	61·3	79·6	56·0	63·5	12·9	+2·2	12·8
Lyallpur	605	990·5	—0·4	988·5	1012·2	1009·5	80·5	—1·1	90	28,31	54·5	+0·9	48	16	59·5	78·2	54·6	62·6	12·3	+0·6	12·3
SOUTH PUNJAB.																					
Montgomery ...	558	992·5	0·0	990·2	1012·6	1009·3	82·6	—1·2	94	29	56·0	0·0	49	15	61·5	80·3	56·5	64·0	13·3	+0·7	13·1
Multan (R) ...	413																				
Fort Abbas ...	475	(f) 995·3	...	(e) 992·9	1012·2	1009·1	87·5	...	105	29	57·2		49	1	64·7	85·2	55·8	63·0	10·5		9·6
Bahawalpur ...	384	998·8	—0·1	995·8	1012·4	1008·8	84·3	—1·3	103	29	57·2	+2·0	46	1	62·0	82·9	57·3	67·3	13·9	+1·7	15·8
Khanpur ...	297	1001·9	—0·2	998·9	1012·6	1009·1	87·3	+0·4	107	29	57·0	+2·8	45	4	64·6	84·3	57·9	84·4	13·4	+2·7	12·6
N.W.F.P. (Upper)																					
Chakdara ...	2197	936·1	...	934·3	1014·1	1010·3	68·2	...	84	31	48·9	...	42	19,24	53·8	66·8	49·5	56·0	10·4	...	11·0
Peshawar ...	1175	972·9	—0·1	970·9	1014·6	1011·6	72·8	—2·0	87	28	52·3	—0·1	43	18	59·1	70·1	53·6	58·1	11·5	+0·6	11·1
Landikotal ...	3503	895·4	...	892·7	903·2	(f) 901·9	65·4	...	82	28	(e) 47·0	...	41	5	52·9	59·7	47·3	50·9	9·0	...	9·1
N.W.F.P. (Lower)																					
Bannu	1264	968·1	...	965·7	1012·8	1009·7	76·6	—1·4	90	28,29,30					60·1	70·6	53·4	58·9	10·9	+1·1	11·8
Miranshah ...	3026	909·4	...	907·8	898·7	897·4	68·5	+1·2	84	29	50·1	+2·4	45	5	53·9	66·1	46·8	52·8	8·3	+0·9	8·3
D. I. Khan ...	570	994·4	+1·6	990·6	1014·8	1010·1	79·9	—1·9	93	28,31	55·0	0·0	45	31	61·1	78·5	54·2	64·3	11·2	—0·9	14·2
BALUCHISTAN (North)																					
Portsandemon ...	4614	860·4	+0·8	854·1	901·0	897·2	69·7	...	86	28	46·0	+1·2	39	5,17	49·5	57·3	43·6	51·7	7·0	+0·5	6·9
Hindubagh ...	5950	820·8	...	819·1	798·4	795·5	63·1	...	77	31	39·1	...	33	4 days	46·2	59·9	38·7	46·2	5·3	...	6·0
Loralai (R) ...	4699																				
Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sibi	441	996·7	+1·3	994·1	1012·1	1009·5	83·6	—2·4	100	29,30,31	59·4	0·0	53	2,3,9	64·6	83·0	53·3	62·3	10·8	+2·6	10·1
Quetta	5490	833·0	—0·7	830·7	795·8	794·9	61·9	...	83	28	38·7	...	31	4,5	43·7	59·8	41·7	52·7	8·4	+1·9	11·2
Quetta (Samungli)	5253	842·4	...	840·6	799·0	797·9	63·4	...	79	28	37·4	...	22	4	43·9	60·5	39·6	48·9	7·0	...	8·0
Chaman	4311	870·7	+1·3	869·5	901·5	900·3	66·9	+0·4	84	28	46·6	+0·6	37	3	52·1	64·1	48·2	59·4	9·7	+3·0	15·7

(R) Register not received. (a) Mean of 30 days. (b) Mean of 29 days.

Relative humidity %			Cloud Amount (Eighths of Sky).			PRECIPITATION.						Wind velocity in 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.	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	
23	24	25	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
						Inches	Inches	Inches																								
																																NORTH PUNJAB
71	+12	39	4·3	+1·6	4·1	0·42	—0·37	0·34	23	1	—0·9	3·6	+1·7	0	4	3	2	0	0	1	4	17	1	1	2	1	0	1	2	13	10	Lahore
71	+4	49	3·8	+1·6	5·3	2·59	+1·08	1·00	23	6	+2·8	2·5	+1·0	3	4	0	2	2	3	2	10	5	2	2	1	1	0	7	5	9	4	Sialkot
69	...	38	3·4	...	4·7	1·49	...	0·61	11	4	...	2·9	...	1	1	2	1	2	0	3	12	9	1	1	0	3	2	0	2	13	9	Jhelum
72	+13	48	3·6	+0·6	5·0	4·02	+1·35	1·28	23	6	+1·3	3·4	+1·1	0	2	0	0	1	3	1	0	24	0	4	0	0	1	4	10	1	11	Rawalpindi
71	+15	39	2·0	—0·8	2·7	1·81	+0·77	1·46	24	2	—0·5	1·9	—1·8	0	7	2	0	2	2	0	2	16	6	3	4	4	3	0	3	1	7	Khushab
72	+9	39	3·6	+0·5	3·7	1·67	+1·11	1·62	23	1	—0·6	1·8	—0·1	4	2	0	3	0	2	2	5	13	5	4	1	0	2	4	2	5	8	Lyallpur
																																SOUTH PUNJAB
72	+5	38	1·9	—0·2	2·7	0·16	—0·26	0·09	23	0	—1·3	(a) 2·1	—1·0	2	4	1	6	0	1	0	3	14	2	2	2	1	0	1	6	3	14	Montgomery
																																Multan (R)
57	...	24	2·5	...	4·0	0·00	—	0·00	...	0	...	(i) 5·2	...	5	7	10	1	3	0	0	1	4	8	4	3	2	2	2	4	6	0	Fort Abbas
74	+13	43	2·7	+0·8	2·1	0·08	—0·32	0·08	10	0	—0·9	2·5	—0·1	9	2	1	0	2	3	0	2	12	5	2	0	0	1	0	3	2	18	Bahawalpur
65	+10	28	2·5	+0·4	3·2	0·18	—0·20	0·11	10	1	+0·1	4·4	+0·4	3	9	1	1	3	4	2	3	5	2	3	1	0	1	2	9	4	8	Khanpur
																																N.W.F.P. (Upper)
74	—	52	3·9	—	4·7	11·98	...	5·35	11	7	...	4·6	...	0	0	0	0	0	0	0	23	8	0	0	2	4	2	11	6	3	3	Chakdara
70	+1	48	4·8	+0·6	5·4	2·82	+0·38	0·58	9	9	+4·4	2·8	+1·0	3	1	0	1	4	7	1	4	10	8	2	1	3	2	3	3	3	6	Peshawar
70	...	55	4·0	...	5·5	2·28	...	0·25	23	6	...	4·1	...	4	2	3	0	1	0	1	2	17	3	5	3	0	0	0	4	3	13	Landikotal
																																N.W.F.P. (Lower)
65	+10	45	3·5	+1·1	4·5	3·09	+1·51	2·51	23	3	—0·7	3·0	...	1	0	0	1	1	1	3	12	12	1	1	3	12	1	2	1	1	9	Bannu
60	+1	44	3·4	+0·9	4·7	3·19	+0·65	0·85	8	8	+2·6	4·7	0·0	3	3	1	1	0	0	1	13	9	2	2	7	11	2	2	0	1	4	Miranshah
65	+2	44	3·0	+0·4	2·1	1·47	+0·51	0·97	10	4	+1·7	(b) 2·0	+0·5	3	4	1	0	0	1	4	3	(a) 14	7	2	4	1	1	1	2	1	(a) 11	D. I. Khan
																																BALUCHISTAN (North)
61	—6	33	3·4	+1·1	4·5	1·15	—0·23	0·32	9	5	+1·4	3·3	+0·3	0	0	1	0	3	3	1	1	22	2	0	1	1	3	7	6	4	7	Fortsandeman
50	...	34	3·3	...	5·2	2·85	...	1·25	9	4	...	8·4	...	0	0	1	0	0	8	14	4	4	1	1	1	0	1	12	12	2	1	Hindubagh
																																Loralai (R)
...	...	...	...	...	...	3·14	+1·73	0·80	23	8	+5·1	...	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Hamai
51	+12	29	2·7	+0·9	5·0	7·29	+6·97	4·30	11	7	+6·1	2·8	—0·3	0	4	2	1	0	0	3	8	13	0	1	4	3	0	6	11	3	3	Sibi
86	+19	65	3·4	+0·7	5·1	4·21	...	1·65	9	7	...	6·0	+3·2	4	5	4	7	5	3	0	0	3	6	4	1	0	6	5	6	6	0	Quetta
76	...	46	3·9	...	4·9	3·56	...	1·46	9	7	...	7·6	...	1	0	4	5	0	0	3	1	17	1	6	10	6	2	2	1	1	2	Quetta (Samungli)
77	+23	75	3·7	+0·7	3·1	1·46	—0·03	0·46	6	5	+1·0	...	...	0	0	1	9	4	2	1	1	13	1	1	2	1	5	9	4	8	0	Chaman

(a) Mean of 26 days. (b) Mean of 25 days. (i) Mean of 22 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of bar cistern above mean sea level 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.		
		Mean 0030 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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
BALUCHISTAN (North)—Contd.																					
Nushki	3412	902·6	—	901·7	903·9	902·4	72·9	—	92	28	52·8	...	41	5	57·8	70·6	50·3	56·3	9·4	...	10·0
Kalat	6616	800·6	+0·9	799·5	798·0	796·5	59·1	—1·6	74	27	38·7	+2·7	23	4	44·9	56·9	40·0	47·3	6·6	+0·7	7·7
Dalbandin ...	2785	919·1	+0·9	916·3	900·4	898·4	75·6	—2·2	94	28	50·9	+3·2	34	4	55·4	74·3	50·0	60·3	10·2	+2·2	11·8
Nokkundi ...	2229	936·3	...	934·0	1013·8	1008·5	79·6	+1·5	94	31	55·3	+3·5	41	4	60·2	78·2	50·9	60·3	9·0	+0·6	11·0
BALUCHISTAN (South)																					
Lasbela	292	1001·6	—0·9	999·2	1011·8	1008·6	90·7	+1·8	105	29	60·2	+3·2	45	4	67·6	90·7	59·4	67·4	13·8	—2·1	12·0
Ormara ...	15	1011·7	...	1009·6	1012·2	1010·1	85·2	+3·3	103	31	68·5	+3·1	59	5	72·8	82·3	67·1	70·3	20·3	+0·8	19·6
Pasni ...	10	1011·6	—1·0	1009·0	1012·2	1010·1	85·2	+0·6	100	29,30	64·4	+2·5	52	3	68·2	82·3	65·4	74·7	19·7	+2·2	25·8
Turbat (R) ...	510																				
Punjgur	3177	904·9	—0·2	903·3	899·1	897·8	75·5	—2·6	90	28,29	...	...	...	...	55·1	75·0	50·7	61·1	10·7	+2·0	12·8
SIND (Upper)																					
Reti (R) ...	280																				
Jacobabad	183	1005·7	+0·3	1003·4	1012·3	1009·8	86·0	—3·6	103	29	60·4	—0·2	51	4	64·2	85·1	57·4	69·8	12·7	+0·2	17·6
Sukkur ...	221	1004·1	—0·1	1001·9	1012·1	1009·5	84·4	—3·5	100	29	59·8	+0·2	53	6,7	62·4	80·3	56·0	64·4	12·1	+0·2	13·2
Pad Idan ...	153	1007·1	...	1004·2	1012·6	1009·4	87·3	...	102	29	58·6	—	50	4,5	66·6	86·3	57·4	64·1	12·4	...	10·5
SIND (Lower)																					
Umarkot (R) ...	55																				
Hyderabad ...	96	1008·9	+0·2	1005·5	1012·1	1008·5	93·3	+0·8	116	28,29	65·1	+1·3	57	6	69·0	91·5	60·1	67·9	13·6	+0·6	11·8
Karachi (Air Port).	73	1009·9	...	1007·5	1012·5	1010·0	90·0	...	103	30	64·3	...	53	5	69·4	85·2	64·5	72·5	18·1	...	21·6
Karachi (Manora)...	13	1011·8	—0·4	1009·6	1012·3	1010·1	83·5	+1·7	94	30	70·9	+1·8	60	5	72·6	72·7	68·8	74·1	22·4	+3·0	26·7
Badin	31	1010·7	—0·3	1008·2	1011·9	1009·3	96·1	+4·4	108	29,30,31	62·5	+0·8	49	5	67·9	93·8	62·4	73·8	16·8	—0·1	19·6
HILL STATIONS (Excluding Kashmir and Baluchistan.)																					
Murree	7113	783·6	—0·3	783·4	795·6	795·3	53·2	—2·2	68	28	39·5	+1·7	32	4,24	43·4	49·7	37·4	43·3	5·5	—0·1	7·3
Cherat	4272	870·2	+0·2	869·7	899·8	898·9	60·2	—1·0	77	28	47·7	0·0	41	7	51·2	58·0	43·4	47·6	6·4	—0·6	7·0
Drosh	4806	856·8	...	853·4	903·1	899·4	57·2	—0·9	76	28	40·9	+0·5	32	9,10	44·0	55·5	38·9	43·9	6·0	—0·3	5·2
Parachinar ...	5673	826·5	0·0	826·0	995·5	995·7	59·9	+0·1	78	28	39·8	+1·2	34	18	45·6	53·9	39·6	45·2	6·1	+1·1	6·5
Wana	4456	...	...	...	...	...	64·2	—1·5	75	31	44·5	+4·6	34	18	53·2	60·6					
AFGHANISTAN.																					
Jalalabad ...	1950	941·4	...	939·4	1009·9	1005·5	72·2	...	90	29	50·4	...	42	4	55·6	70·0	50·9	58·7	10·8	...	12·3
Kabul	5955	820·4	...	819·5	799·6	797·5	54·1	+1·3	74	28	35·8	+2·2	27	11	39·0	52·3	34·9	42·2	5·5	+0·8	5·5
Kandahar ...	3462	903·7	...	901·5	907·3	904·9	69·6	...	89	28	43·4	...	33	4	49·7	67·4	46·0	59·1	9·1	...	13·7

(R) Registered

Relative humidity %			Cloud Amount (Eighths of Sky).			PRECIPITATION.						Wind velocity in 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.	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	
23	24	25	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
						Inches	Inches	Inches																								BALUCHISTAN (North)—Contd.
61	...	38	3·0	...	4·8	3·64	...	1·52	9	5	—	8·6	...	1	2	15	3	3	1	2	2	2	3	0	1	1	5	1	17	3	0	Nushki
72	+13	47	4·0	+1·8	4·7	6·59	+5·54	2·27	8	7	+4·0	6·1	+1·3	1	3	1	0	10	9	3	0	4	2	0	0	3	1	9	1	14	1	Kalat
68	+15	44	3·7	+1·4	3·9	4·47	+4·07	0·80	9	5	+3·6	4·2	+0·2	0	8	0	0	4	1	0	0	18	2	1	8	1	5	7	5	0	2	Dalbandin
50	+4	33	3·1	+0·8	4·5	1·05	+0·93	0·95	9	2	+1·4	6·1	0·0	6	6	4	1	1	0	1	1	11	6	2	2	10	3	0	3	3	2	Nokkundi
																																BALUCHISTAN (South)
55	—14	24	1·0	—0·8	1·2	3·15	+2·12	0·45	3	3	+1·6	2·9	+0·5	0	1	0	0	0	0	0	0	30	12	13	0	0	0	0	0	0	6	Lasbela
74	—9	53	2·8	+0·6	2·8	0·00	—0·23	0·00	...	0	—0·7	9·4	+1·7	1	0	5	3	0	5	6	2	9	1	0	1	1	6	12	10	0	0	Ormara
89	+10	73	1·3	—0·1	0·6	0·11	—0·40	0·08	10	0	—0·7	6·5	+1·0	2	0	1	0	1	0	4	0	23	1	0	2	0	7	1	19	0	1	Pasni
																																Turbat (R)
72	+9	42	2·7	+1·2	4·0	3·46	+2·86	1·05	9	5	+3·7	4·7	0·0	1	17	3	0	0	2	2	0	6	1	4	0	0	2	16	1	6	1	Panjgur
																																SIND (Upper)
																																Reti (R)
65	+10	49	3·1	+1·3	4·2	1·20	+0·98	0·11	13	1	+0·3	5·6	+1·6	0	2	2	9	1	0	1	9	7	0	1	1	9	0	6	1	11	2	Jacobabad
64	+11	38	3·4	+2·1	3·8	1·18	+0·94	0·78	10	3	+2·1	3·4	+0·1	6	6	7	6	0	1	1	0	4	7	6	1	3	1	5	6	2	0	Sukkur
69	...	27	3·3	...	3·4	1·39	...	0·66	10	3	...	5·0	...	9	5	0	1	2	1	2	2	9	9	2	0	3	4	3	2	6	2	Pad Idan
																																SIND (Lower)
																																Umarkot (R)
56	+1	24	3·2	+1·8	3·1	0·00	—0·20	0·00	...	0	—0·4	3·3	—1·0	13	0	0	1	2	6	2	2	5	8	5	2	0	2	6	2	2	4	Hyderabad
76	...	53	3·5	...	2·7	0·02	...	0·02	11	0	...	7·2	...	2	2	0	2	0	1	4	2	18	0	0	0	0	4	17	9	0	1	Karachi (Airport)
83	+7	76	3·0	+1·0	2·4	0·02	—0·27	0·02	11	0	—0·6	6·5	—0·6	3	5	1	1	0	3	4	6	8	0	0	0	0	0	0	1	16	14	Karachi (Manora)
72	+6	36	1·2	0·0	1·0	0·00	—0·15	0·00	...	0	—0·2	0·0	...	1	0	0	0	0	0	3	2	25	3	0	0	0	0	2	6	1	19	Badin
																																HILL STATIONS (excluding Kashmir and Baluchistan.)
59	+6	62	4·7	+1·1	5·7	9·23	+4·42	3·29	11	10	+2·7	6·7	+1·5	0	8	11	6	0	0	0	0	6	0	1	6	5	0	1	5	1	12	Murree
53	—3	48	3·5	+0·4	3·9	8·19	+3·90	3·35	10	8	+2·4	10·5	+2·8	29	0	0	0	2	0	0	0	0	18	0	0	1	10	1	1	0	0	Cherat
63	—4	40	5·1	+1·3	5·9	5·51	+1·78	1·31	10	10	+2·6	4·7	+1·6	0	9	1	6	0	6	0	0	9	0	10	1	3	1	10	1	2	3	Drosh
63	+3	48	4·4	+1·1	5·9	7·19	+2·85	1·81	10	11	+2·7	3·0	+0·6	5	8	1	1	0	2	3	5	6	1	1	2	17	2	2	1	4	1	Parachinar
			3·3	+0·7	2·7	2·43	+0·50	0·90	9	5	+1·1	2·6	—	0	1	0	0	3	2	2	5	18	0	0	0	7	2	3	4	7	8	Wana
																																AFGHANISTAN
73	...	52	5·0	...	5·3	1·07	...	0·40	10	3	...	2·5	...	1	1	1	0	2	2	10	5	9	0	0	7	2	2	9	0	0	11	Jalalabad
69	+3	49	5·0	+1·5	4·9	4·05	+0·46	0·99	7	9	+1·9	3·5	+0·9	1	1	0	1	7	9	5	3	4	7	6	2	1	0	2	7	4	2	Kabul
74	...	58	3·3	...	3·8	3·91	...	1·47	9	6	...	2·7	...	0	5	0	0	0	1	0	1	24	0	1	0	1	0	10	0	0	19	Kandahar

not received.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0400 HRS.

STATIONS.	Height of bar cistern above mean sea level in feet.	Pressure at Stations 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.		
		Mean 0400 hrs. G.M.T.	Departure from normal.	Mean 1200 hrs. G.M.T.	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0400 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
IRAN.																					
Jask	13	1012·6	—	1010·6	1012·6	1011·1	78·8	—1·7	91	30	66·9	+0·3	62	2,5,15	69·1	76·9	64·0	69·1	18·1	—	20·6
Bushire	14	1014·2	—	1013·2	1014·7	1013·7	70·7	—	92	29	57·6	—	47	2,4	61·1	69·1	55·8	61·5	12·6	—	15·3
ARABIA.																					
Muscat	20	1011·7	—	1010·8	1012·2	1010·9	78·7	—2·3	90	29,30	71·1	—0·8	61	3	73·3	76·5	65·4	69·4	17·5	—	21·9
Shargah (R) ...	18																				
Kuwait ...	16	1015·0	—	1012·9	1015·5	1013·4	69·9	—	79	29	59·5	—	43	1	62·1	68·2	60·3	59·5	13·1	—	14·1

(R) Register

Relative humidity %			Cloud Amount (Oktas.)			PRECIPITATION.						Wind velocity in knots.		Wind direction—Number of winds from :—																	STATIONS.
														0400 hrs. G.M.T.								1200 hrs. G.M.T.									
Mean 0400 hrs. G.M.T.	Departure from normal.	Mean 1200 hrs. G.M.T.	Mean 0400 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	
23	24	25	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
						Inches	Inches	Inches																								
																																IRAN.
74	—	66	2·9	+1·0	2·9	1·07	+0·42	0·62	2	2	+0·8	9·8	+2·2	5	4	4	0	0	2	5	8	3	0	1	0	3	0	8	16	3	0	Jask
70	—	64	4·6	—	4·4	0·90	—	0·40	18	3	—	6·2	—	3	5	2	0	0	0	1	5	15	1	1	3	1	0	3	10	9	3	Bushire
																																ARABIA
64	—	69	1·5	—0·3	0·3	0·00	—0·40	0·00	—	0	—1·1	4·8	+1·2	0	0	0	0	1	1	0	16	13	0	5	0	1	0	2	0	16	7	Muscat
																																Shanjab (R)
69	—	60	2·0	—	1·4	1·13	—	0·35	26	4	—	3·3	—	23	5	0	0	0	0	0	0	3	25	3	0	0	0	0	0	0	0	Kuwait

not received.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS—MARCH, 1949.

STATION.	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature °F 0300 hrs. G.M.T.	Mean wet bulb temperature °F 0300 hrs. G.M.T.	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 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
																Inches	Inches	Inches					
EAST BENGAL (North).																							
Pabna	93·2	+0·9	100	30,31	...	...	...	...	78·6	69·0	21·0	+0·2	60	—6	...	1·18	—0·03	0·60	19	2	+0·1	...	...
KASHMIR.																							
Jammu (x)... ...																							
Kargil (x)																							
IRAN.																							
Zahidan																							

(x) Data not available.

TABLE V—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 5TH CLASS STATIONS—MARCH, 1949.

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
		Inches	Inches	Inches			
EAST BENGAL (North).							
	Rajshahi (R)						
	Sirajganj	0·40	—0·88	0·18	19	3	—0·9
	Rangpur	0·33	—0·67	0·33	19	1	—0·6
KASHMIR.							
	Sonemarg (x)						
	Gurez (x)						
BALUCHISTAN (North)							
	Harnai	3·14	+1·73	0·80	23	8	+5·1

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

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PAKISTAN WEATHER REVIEW 1949

Monthly Weather Report

April

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Chief Features.—Fairly widespread northwestern activity in East Pakistan during last ten days of the month with locally heavy to very heavy rainfall and hailstorms at some places.

West Pakistan.—Six western disturbances affected weather in West Pakistan during the month. A Western disturbance moving eastwards across north Rajputana and the south Punjab on the 3rd followed by another western disturbance affecting the North West Frontier Province, caused local thundershowers in the North West Frontier Province and scattered in the north Punjab on the 3rd and 4th. Local thundershowers were reported from northeast Baluchistan on 4th, scattered on 3rd, while isolated duststorms or thunderstorms occurred in the North West Frontier Province on 2nd, in the south Punjab on 3rd and in Sind on 4th.

This system was followed by another western disturbance affecting the North West Frontier Province on the afternoon of 4th and caused local thundershowers in north Baluchistan and scattered in the North West Frontier Province on the 5th and 6th, duststorm or thundershowers and in North Baluchistan on 6th.

After a short break and another western disturbance began affecting West Pakistan on the 8th and passed away on the eleventh after causing fairly widespread thundershowers in the North West Frontier Province on the 9th and 10th, local thunderstorm in the north Punjab on the 10th and a few dustsotrm or thunderstorms in Baluchistan, upper Sind and the Punjab from 8th to 11th. Thereafter, the weateher remained dry in West Pakistan, except for isolated thunderstorms in the north Punjab and the North West Frontier Province on the 14th due to the passage of two weeks western disturbances.

The total rainfall during the month was in large defect in the Punjab and north Baluchistan and in moderate defect in the N.W.F.P. No rainfall in south Baluchistan and Sind. Averaged over the plains it was in large defect.

The mean maximum temperature was above normal in the whole region whereas the mean minimum temperature was so in the North West Frontier Province, the northwest Punjab and north Baluchistan but normal elsewhere.

The mean relative humidity was in defect in the region outside north West Punjab, North West Frontier Province, North Baluchistan and Lower Sind where it was normal.

Skies were less clouded than usual in the region except in south Baluchistan where they were more clouded.

East Pakistan—The Northwestern activity began affecting the region from the 4th causing intermittent spells of wet weather till the end of the month. The activity became more pronounced from 20th onwards when some very severe thunderstorms accompanied with hailstorms were reported according to newspaper reports, hailstorms occurred during the third week at some stations in east Bengal and the accompanying squalls uprooted many trees and damaged huts. Rainfall was reported to be fairly widespread.

Fairly widespread thunderstorm with some heavy to very heavy falls occurred on 21st, 22nd and 26th to 29th.

Some of the noteworthy amounts of rainfall recorded during the month were - Bogra 3" on the 4th, comilla 3" on the 21st, 6" on the 27th. Comilla 9", Mymensingh, Srimangal 4" each on 28th Comilla, Sirajganj 4" each on 29th.

The total rainfall during the month was in large excess in the region.

The mean maximum and manimum temperatures were below normal in the region except the northern sub-division where the mean minimum temperature was normal.

The mean relative humidity was in excess in Northern and Deltaic sub-divisions and normal in the eastern sub-division. Skies were more clouded than usual in the region.

Table I contains the Divisional and sub-divisional means of rainfalls, temperature, humidity and cloud for the 5 cheif 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, 1949.

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		Degree	Degree	Mb.	%	
East Bengal	13·11	4·30	+8·81	+205	−5·4	−2·2	−0·9	+6	+1·2
Mean of East Pakistan	13·11	4·30	+8·81	+205	−5·4	−2·2	−0·9	+6	+1·2
West Punjab	0·10	0·71	−0·61	−86	+5·5	+2·2	+0·1	−2	−0·9
N.W.F.P.	0·76	1·27	−0·51	−40	+4·9	+3·7	−0·5	−6	−0·7
Baluchistan	0·13	0·55	−0·42	−76	+5·2	+2·5	+1·0	−3	−0·5
Sind	0·00	0·10	−0·10	−100	+5·1	+1·0	−0·1	−1	−0·9
Mean of West Pakistan Excluding Baluchistan	0·18	0·60	−0·42	−70	+5·3	+2·0	−0·1	−2	−0·9
East Bengal (North)	9·62	2·49	+7·13	+286	−6·9	−1·9	+0·5	+10	+1·1
East Bengal (East)	17·12	6·07	+11·05	+182	−4·8	−2·3	−1·9	+5	+1·3
East Bengal (Deltaic)	11·00	3·65	+7·35	+201	−5·2	−2·1	−0·5	+6	+1·0
Kashmir *									
North West Punjab	0·16	0·97	−0·81	−84	+5·4	+2·8	+1·8	+3	−0·8
South West Punjab	0·01	0·25	−0·24	−96	+5·6	+1·2	−2·6	−10	−1·2
N.W.F.P. (Upper).	1·24	1·76	−0·52	−30	+3·9	+2·5	−0·9	−9	−1·5
N.W.F.P. (Lower).	0·60	1·10	−0·50	−45	+5·2	+4·0	−0·3	−5	−0·5
Baluchistan (North)	0·19	0·57	−0·38	−67	+5·2	+2·9	+1·1	−1	−0·9
Baluchistan (South)	0·00	0·51	−0·51	−100	+5·1	+1·3	+0·9	−6	+0·3
Sind (Upper)	0·00	0·13	−0·13	−100	+4·8	+1·1	−1·7	−7	−0·7
Sind (Lower)	0·00	0·07	−0·07	−100	+5·3	+0·9	+1·5	+2	−1·0

(*) Data incomplete.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of bar cistern above mean sea level 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.		
		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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST BENGAL (North).																					
Bogra	63	1007·8	+1·2	1003·7	1010·0	1005·9	87·2	—8·4	97	4	69·9	—1·6	64	21	74·6	82·1	71·4	73·3	25·5	+0·8	23·7
Dinajpur ...	123	1005·4	+1·1	1000·3	1009·6	1004·5	87·6	—6·7	95	10	67·7	—2·3	62	21	77·1	83·8	70·8	74·2	22·5	+0·8	24·9
EAST BENGAL (East).																					
Cox's Bazar ...	38	1010·2	+0·9	1006·9	1011·5	1008·1	87·4	—1·3	91	15	71·3	—2·1	66	22,24	81·0	81·3	74·8	74·7	26·9	—2·4	26·2
Chittagong ...	87	1008·0	—1·1	1004·4	1011·0	1007·4	86·3	—2·5	93	15	71·2	—2·0	65	22	80·5	79·9	74·0	75·8	26·2	—1·9	27·4
Comilla	29	1009·1	+0·5	1006·0	1010·1	1007·0	86·8	—5·5	94	3,4	71·5	—1·8	66	8	78·4	80·3	73·7	73·2	26·2	—2·6	24·6
Narayanganj ...	26	1009·1	+0·6	1005·6	1010·0	1006·5	86·1	—6·3	93	1,2	70·4	—3·6	63	5	79·0	79·4	74·0	73·2	26·4	—1·5	25·0
Brahmanbaria ...	32	1009·5		1005·8	1010·6	1006·9	86·7	—6·4	94	3,4,5	69·7	+0·1	63	17	78·0	79·0	72·3	72·6	24·8	—0·8	24·3
Srimangal ...	69	1008·0	+0·2	1004·5	1010·4	1006·9	85·0	—7·1	93	2,4	67·3	—2·0	63	8,9,22	74·1	80·3	70·3	73·7	23·2	—2·8	25·3
Mymensingh ...	62	1009·0	+1·4	1004·4	1011·2	1006·5	85·4	—5·7	93	7,12,15	66·9	—4·8	62	2,22	74·8	81·4	70·9	75·1	24·1	—1·3	26·2
EAST BENGAL (Deltaic).																					
Faridpur ...	46	1007·8	+0·8	1003·7	1009·4	1005·3	85·3	—8·5	93	1,2,3	71·2	—1·8	66	5,22	80·5	81·7	76·2	75·6	29·1	+1·0	27·9
Barisal	11	1009·4	+0·4	1006·3	1009·9	1006·7	89·7	—2·3	93	4 days	72·1	—3·0	65	30	83·4	81·5	75·7	74·7	26·7	—3·2	25·5
Khulna	16	1010·9	+2·5	1006·7	1011·5	1007·3	90·0	—4·2	94	1	72·4	—2·9	66	22	82·4	82·4	76·8	74·8	28·7	—0·1	25·8
Jessore	26	1008·5	+0·6	1005·1	1009·4	1006·0	90·9	—5·7	97	1	72·5	—1·1	65	22	82·5	84·0	76·8	76·2	29·7	+0·9	27·0
Satkhira ...	16	1008·6	+0·3	1005·0	1009·2	1005·6	91·9	—5·1	97	18	73·7	—1·9	64	22	78·3	84·0	75·1	76·9	28·3	—0·9	28·5
KASHMIR.																					
Srinagar (x) ...	5205																				
Gulmarg (x) ...	8709																				
Dras (x) ...	10059																				
Leh (x)	11529																				
Skardu (x)	7505																				
Gilgit (x) ...	4890																				
Miagar	10190	700·2	...	697·9	703·9	701·5	53·6	...	67	30	25·7	...	18	19	36·7	51·5	34·1	42·4	5·9	...	6·5

(x) Data

Relative humidity %			Cloud Amount (Eighths of Sky).			PRECIPITATION						Wind velocity in 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.	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	
23	24	25	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
						Inches	Inches	Inches																								
																																EAST BENGAL (North).
85	+16	65	4·9	+1·5	3·8	12·00	+9·76	2·53	4	14	+10·5	3·6	+1·2	0	4	12	6	2	3	0	0	3	0	1	17	7	2	0	1	0	2	Bogra
72	+7	63	4·0	+0·8	2·5	4·61	+2·47	1·68	14	7	+4·0	4·5	+1·4	3	20	6	0	0	0	1	0	0	1	22	4	0	0	0	1	0	2	Dinajpur
																																EAST BENGAL (East)
74	—1	73	4·7	+1·4	4·8	7·28	+3·08	1·77	16	9	+4·8	3·6	+0·1	0	1	3	9	9	2	0	1	5	0	2	1	4	6	11	1	0	5	Cox's Bazar
73	—2	79	5·7	+2·3	5·5	8·11	+2·18	1·93	28	10	+4·2	6·2	+1·8	0	2	6	14	7	0	0	0	1	1	2	2	2	11	11	0	0	1	Chittagong
80	+9	71	5·4	+1·9	5·3	43·65	+37·80	8·58	28	15	+8·5	6·2	+1·9	5	1	2	11	10	0	0	0	1	1	1	1	3	17	2	5	0	0	Comilla
78	+3	75	4·0	—0·2	3·3	29·11	+23·71	5·50	27	18	+11·3	3·8	—0·3	4	0	9	1	13	1	1	0	0	0	0	6	4	19	0	0	1	0	Narayanganj
79	+10	74	5·3	+1·3	4·6	10·00	+3·53	2·08	19	14	+7·1	4·1	...	2	0	13	4	8	0	0	0	3	1	2	1	3	14	2	2	0	5	Brahmanbaria
83	+6	73	5·5	+2·0	5·0	16·11	+6·40	3·74	28	15	+5·1	3·2	—0·4	4	3	7	3	10	0	2	0	1	3	1	8	1	5	0	7	0	5	Srimangal
83	+9	75	5·0	+0·3	4·7	15·56	+0·05	4·35	13	13	+5·9	2·5	+0·1	0	0	0	12	0	0	1	0	17	0	1	0	16	0	0	0	0	13	Mymensingh
																																EAST BENGAL (Deltaic).
81	+12	76	5·3	+2·2	4·8	17·26	+12·59	4·22	27	10	+3·7	6·6	+0·4	1	2	2	8	6	9	0	0	2	1	1	0	10	8	10	0	0	0	Faridpur
69	—6	74	4·8	+1·0	4·9	8·58	+4·35	4·07	27	11	+5·7	4·8	+1·7	0	0	0	2	1	17	0	0	10	1	0	0	0	0	16	0	0	13	Barisal
76	+4	70	4·4	+0·3	3·5	10·66	+7·75	2·71	15	7	+2·8	4·4	+0·5	1	3	1	0	13	11	0	0	1	1	2	2	3	18	2	0	0	2	Khulna
76	+3	70	2·9	—0·4	3·3	12·58	+9·05	3·70	27	12	+7·2	7·2	+4·4	0	2	2	2	20	4	0	0	0	0	2	1	5	19	1	0	0	2	Jessore
87	+17	73	4·8	+1·8	5·4	5·92	+2·99	2·45	22	6	+2·0	4·8	+1·7	0	3	0	21	0	3	0	2	1	0	3	0	21	0	5	0	0	1	Satkhira
																																KASHMIR
																																Srinagar (x)
																																Gulmarg (x)
																																Dras (x)
																																Leh (x)
																																Skardu (x)
																																Gilgit (x)
80	...	51	5·4	...	6·3	1·10	...	0·52	11	4	...	4·7	...	1	2	2	3	3	6	6	7	0	1	1	10	7	2	2	7	0	0	Misgar

not available.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of bar cistern above mean sea level 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.		
		Mean 0030 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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
NORTH PUNJAB																					
Lahore	702	981·7	—1·7	979·1	1005·7	1002·3	99·5	+5·0	112	29,30	67·3	+4·1	60	1	78·7	97·6	65·2	67·9	15·2	+1·8	10·4
Sialkot	830	977·5	—1·7	974·7	1005·6	1002·0	97·6	+5·2	110	29,30	71·2	+6·5	62	12	79·7	95·4	65·0	70·9	16·5	+2·8	14·8
Jhelum	765	980·1	...	977·3	1006·2	1002·2	96·8	...	109	30	64·7	...	58	1,14	76·0	94·2	65·1	72·6	16·1	...	17·6
Rawalpindi ...	1674	949·8	—1·8	947·8	1006·6	1002·7	92·0	+5·8	106	30	62·3	+3·0	52	11	75·0	88·6	61·6	65·6	12·2	—0·8	12·1
Khushab ...	616	984·8	—2·3	981·9	1006·1	1002·3	99·5	+6·6	112	30	64·9	—1·8	48	12	76·4	97·2	65·7	71·8	17·2	+4·2	15·0
Lyallpur	605	984·7	—2·2	982·1	1005·6	1002·1	98·0	+5·1	112	30	65·9	+2·0	59	11,12	76·1	96·6	62·9	68·0	13·6	+0·8	10·7
SOUTH PUNJAB.																					
Montgomery ...	558	986·8	—1·6	984·0	1005·9	1002·4	99·9	+4·2	113	30	67·3	+0·7	59	11,12,13	78·1	98·7	63·0	69·3	12·9	—2·7	11·2
Multan	413	991·6	—2·0	988·8	1005·7	1002·5	102·2	+6·9	112	25,29,30	68·8	+1·3	59	12	77·8	97·6	62·2	68·9	11·8	—4·6	11·1
Fort Abbas ...	475	* 989·3	...	(b) * 986·2	1005·4	1002·1	105·3	...	115	30	69·0	...	56	13	81·3	101·9	62·3	68·9	10·6	...	9·2
Bahawalpur ...	384	992·8	—2·2	989·5	1006·2	1002·2	102·1	+5·7	113	30	67·0	+1·6	56	12	77·4	101·2	64·9	76·7	15·4	—0·6	20·2
Khanpur ...	297	996·3	—1·8	992·4	1006·7	1002·2	106·7	+8·0	115	21,29,30	69·1	+4·4	57	12	80·9	104·2	66·0	70·1	15·1	+1·9	9·7
N.W.F.P. (Upper)																					
Chakdara ...	2197	932·5	...	929·2	1008·3	1002·0	86·8	...	99	30	58·7	...	52	7,14	67·5	85·1	60·3	67·5	15·0	...	15·9
Peshawar ...	1175	967·3	—2·2	964·8	1007·7	1004·2	89·1	+3·9	102	29,30	63·0	+2·5	52	11	76·1	88·5	62·2	65·8	12·8	—0·9	11·5
Landikotal ...	3503	894·3	...	892·3	898·8	896·7	(f) 84·0	...	96	30	(c) 56·7	...	49	12,13	68·4	(c) 78·6	55·2	(c) 60·2	9·5	...	10·4
N.W.F.P. (Lower)																					
Bannu	1264	963·2	...	961·1	1006·5	1003·0	93·0	+4·6	106	30	68·1	+6·0	54	11	74·5	91·9	61·9	70·2	13·3	+0·3	15·4
Miranshah ...	3026	904·9	...	903·8	894·7	893·8	85·6	+7·3	100	30	61·9	+4·7	52	12	67·9	84·3	56·5	65·6	11·0	+1·3	13·9
D. I. Khan ...	570	987·6	—1·1	984·3	1007·0	1003·3	96·3	+3·7	110	30	66·6	+1·4	56	12	76·5	96·9	63·0	77·4	13·5	—2·5	23·3
BALUCHISTAN (North).																					
Fort Sandeman ...	4614	858·9	+0·1	856·7	898·6	894·8	85·3	+5·0	97	30	57·8	+3·3	48	10,11	60·0	83·2	51·3	61·8	9·6	+1·6	9·9
Hindubagh ...	5950	821·0	...	818·5	798·6	796·1	79·3	...	89	30	50·2	...	39	10,11	62·2	75·8	42·8	49·0	2·3	...	2·2
Loralai	4699	855·8	...	853·1	897·9	893·5	85·0	...	90	30	53·9	...	40	13	61·8	82·2	49·3	58·3	7·1	...	6·9
Harnia (R) ...	...	...	...	...	...	...	...	...	...	...											
Sibi	441	991·2	—1·2	987·9	1006·0	1001·8	103·5	+5·8	115	30	72·9	+2·8	60	12,13	78·7	102·6	62·2	73·4	7·6	—2·2	14·7
Quetta	5490	832·6	—0·2	830·0	798·5	795·5	78·6	...	90	30	47·8		33	11	58·0	76·5	34·3	67·3	13·2	+4·1	19·7
Quetta (Samungali)	5253	842·1	...	839·7	799·1	798·3	79·8	...	90	29,30	46·2	...	33	12	58·1	76·9	33·3	61·5	11·9	...	13·1
Chaman	4311	870·8	+2·8	868·0	899·7	896·9	83·8	+5·2	95	29,30	59·4	+3·4	41	10	70·4	81·3	...	...	...	...	...

(R) Register not received. (*) Data unreliable. (b) Mean of 29 days.

Relative humidity %			Cloud Amount (Eighths of Sky).			PRECIPITATION.						Wind velocity in 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.	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.
23	24	25	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
						Inches	Inches	Inches																								NORTH PUNJAB.
46	+2	17	1·9	—0·4	2·0	0·02	—0·55	0·02	10	0	—1·6	3·1	+1·1	2	2	3	8	0	0	0	2	13	2	2	0	3	2	1	11	5	4	Lahore
50	0	26	2·0	+0·1	2·7	0·14	—0·86	0·14	10	1	—1·1	2·9	+1·0	5	11	2	2	2	0	2	5	1	0	2	1	3	2	7	3	11	1	Sialkot
54	...	33	2·1	...	3·0	0·16	...	0·16	10	1	...	2·3	...	0	2	1	2	0	1	6	4	14	1	1	5	5	1	4	3	5	5	Jhelum
47	—1	28	1·9	—0·7	3·4	0·15	—1·77	0·08	4	0	—4·1	2·8	+0·4	2	3	0	0	0	1	5	1	17	1	0	2	0	3	3	12	2	7	Rawalpindi
54	+11	31	1·2	—1·0	1·1	(d) 0·47	—0·44	0·47	4	1	—1·1	2·1	—2·5	0	5	4	1	0	2	0	2	16	2	5	2	7	0	2	2	1	9	Khushab
47	+1	20	1·2	—1·9	1·8	0·00	—0·47	0·00	...	0	—1·3	1·4	—0·8	3	3	0	1	3	2	0	4	14	4	0	0	1	1	6	3	8	7	Lyallpur
																																SOUTH PUNJAB.
41	—15	19	0·4	—1·2	0·6	0·02	—0·32	0·02	12	0	—0·9	1·8	—1·5	0	4	0	5	2	4	0	3	12	1	1	2	0	0	0	7	0	19	Montgomery
39	—12	15	0·6	—1·1	0·5	0·00	—0·27	0·00	...	0	—0·8	2·1	+0·4	3	3	0	0	0	0	1	3	20	2	4	2	0	0	12	0	4	6	Multan
31	...	16	0·9	...	1·3	0·03	...	0·03	6	0	...	(c) 5·6	...	6	1	3	5	3	4	8	0	0	6	1	1	0	2	4	8	7	1	Fort Abbas
48	—2	29	0·6	—1·2	0·7	0·00	—0·18	0·00	...	0	—0·5	2·4	—0·2	5	1	2	0	8	3	2	0	9	3	1	0	0	0	3	4	1	18	Bahawalpur
41	—1	13	0·5	—0·9	0·5	0·00	—0·25	0·00	...	0	—0·5	4·1	0·0	2	4	2	0	4	9	7	1	1	2	1	2	0	2	10	7	4	2	Khanpur
																																N.W.F.P. (Upper).
67	...	40	1·3	...	2·2	1·30	...	1·30	10	1	...	4·3	...	4	0	0	0	0	0	1	25	0	0	1	0	4	4	8	1	0	12	Chakdara
47	—9	27	2·2	—1·5	3·9	1·24	—0·52	0·97	10	3	—0·8	3·1	+1·2	2	0	0	2	4	5	0	1	16	5	7	6	3	0	2	0	1	6	Peshawar
43	...	37	1·5	...	2·3	0·67	...	0·50	10	2	...	2·8	...	2	2	4	0	0	0	1	5	16	7	6	3	0	0	0	0	5	9	Landikotal
																																N.W.F.P. (Lower).
47	—4	31	1·7	0·0	2·7	0·62	—0·36	0·41	4	2	—0·5	4·0	...	0	1	0	0	0	0	9	9	11	2	4	4	13	3	0	0	1	3	Bannu
49	—2	39	1·5	—0·6	1·9	1·19	—0·44	0·57	3	4	+0·1	6·0	+1·5	6	3	2	0	1	2	4	6	4	1	1	11	7	2	2	1	0	2	Miranshah
48	—8	43	1·4	—0·8	1·9	0·00	—0·69	0·00	...	0	—1·7	2·2	+0·5	5	2	1	0	0	1	3	4	14	3	6	4	3	1	0	0	2	11	D. I. Khan
																																BALUCHISTAN (North).
53	—10	24	2·0	0·0	2·6	0·52	—0·42	0·22	4	2	—1·1	2·6	—0·1	0	0	2	1	3	0	0	0	24	2	0	1	0	3	4	5	2	13	Fort Sandeman
24	...	8	0·9	...	1·5	0·63	...	0·31	6	6	...	7·5	...	0	0	0	1	0	9	14	3	3	1	0	1	0	0	13	12	3	0	Hindubagh
42	...	22	1·5	...	2·2	0·00	—0·95	0·00	...	0	...	1·8	...	0	0	6	0	0	1	2	1	20	1	0	4	2	7	4	11	0	1	Loralai
																																Harnai (R)
37	+6	21	1·5	—0·4	1·4	0·00	—0·11	0·00	...	0	—0·4	3·9	+0·6	1	3	4	1	0	1	3	4	13	0	2	7	7	1	5	6	2	0	Sibi
79	+16	64	0·7	—1·4	2·0	0·29	...	0·14	6	1	...	5·3	+2·5	4	3	2	3	8	3	1	3	3	7	2	0	1	2	5	5	7	1	Quetta
58	...	38	1·1	...	2·9	0·49	...	0·16	16	4	...	7·2	...	0	0	5	5	0	1	5	1	13	0	0	2	2	0	4	13	9	0	Quetta (Samungli)
...	...	...	1·7	—0·7	1·2	0·49	—0·28	0·33	9	2	0·0	...	...	1	1	0	5	5	2	2	0	14	1	0	0	0	1	12	6	8	2	Chaman

(c) Mean of 28 days. (d) Data for 27 days. (f) Mean of 25 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of bar cistern above mean sea level 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.		
		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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
BALUCHISTAN (North)—Contd.																					
Nushki	3412	900·7	...	899·9	902·2	901·6	91·1	...	103	29	66·8	...	50	10	74·1	89·3	60·5	64·8	12·5	...	24·5
Kalat	6616	801·4	+1·8	799·4	798·7	797·0	74·4	+3·4	87	30	44·3	+0·8	29	11	57·0	72·6	49·1	56·2	9·0	0·0	6·8
Dalbandin ...	2785	917·8	+2·0	913·6	898·9	896·2	93·4	+4·2	102	3,28,30	60·5	+2·6	46	11	65·1	91·6	56·2	66·6	12·1	+2·9	12·0
Nokkundi ...	2229	934·0	...	930·7	1008·7	1002·6	97·8	+7·6	107	29	67·8	+4·7	49	11	77·5	92·2	60·7	67·7	11·3	+0·3	13·0
BALUCHISTAN (South).																					
Las Bela... ...	292	998·1	—1·3	995·5	1008·4	1003·6	103·9	+6·2	115	25	...	...	...	...	75·8	103·6	69·2	73·5	21·7	—0·4	15·7
Ormara	15	1007·8	...	1005·1	1008·3	1005·6	94·0	+4·4	105	17	74·9	+1·8	64	12	81·8	88·7	73·2	73·4	24·7	—1·0	20·2
Pasni	10	1008·4	—0·9	1005·2	1008·7	1005·5	95·8	+5·1	107	18,19	68·6	—0·8	58	11	75·3	91·6	73·8	82·3	27·8	+4·1	33·0
Turbat	510	992·5		988·7	1010·0	1005·4	107·6	...	115	23,24	72·6	...	62	9,10	81·3	105·2	64·9	71·4	13·3	...	10·5
Punjgar	3177	903·7	+0·6	901·5	898·0	896·1	91·8	+3·3	99	22,29,30	(x)	...	...	...	64·6	90·5	60·4	82·9	16·7	+4·1	36·1
SIND (Upper).																					
Reti (R) ...	280																				
Jacobabad ...	183	1001·1	—0·1	996·6	1006·2	1002·7	104·9	+5·3	115	29,30	68·0	—2·7	56	13	80·7	103·8	64·9	75·7	13·5	—3·2	4·7
Sukkur	221	998·6	—2·0	995·9	1006·3	1003·3	102·5	+4·3	112	30	73·4	+5·0	60	11,12	76·0	101·6	63·9	71·4	15·0	—0·3	12·9
Pad Idan ...	153	1001·7	...	998·5	1006·8	1003·6	105·6	...	115	24,30	69·8	...	61	20	79·1	103·8	67·2	72·8	17·2	...	13·7
SIND (Lower).																					
Umarkot ...	55	1004·7	...	1001·0	1006·6	1003·2	105·5	...	111	18	70·8	...	60	11	81·3	105·6	71·2	75·2	21·4	...	15·8
Hyderabad ...	96	1003·7	+0·6	999·8	1007·6	1003·0	107·4	+5·6	115	18	74·0	+2·1	63	12	79·2	104·4	69·3	73·0	19·7	+2·2	13·5
Karachi (Airport)	73	1005·6	...	1003·0	1008·2	1005·5	96·9	...	108	17,18	71·7	...	61	11	78·1	91·2	73·2	76·6	25·5	...	24·5
Karachi (Manora)	13	1007·6	—1·1	1005·1	1008·1	1005·5	87·9	+2·5	99	20,21	77·1	+2·9	71	12	79·7	84·7	74·5	78·2	26·9	+0·9	29·8
Badin	31	1008·3	+0·5	1006·4	1009·2	1007·1	108·1	+7·7	115	18	67·8	—2·3	59	6 days	78·1	103·0	...	74·6	...	...	16·2
HILL STATIONS (excluding Kashmir and Baluchistan).																					
Murree	7113	784·2	+0·1	783·9	795·9	795·3	69·2	+3·9	82	30	52·8	+5·9	44	4,5	60·4	65·5	48·0	52·4	7·0	—0·1	8·8
Cherat	4272	868·2	—0·6	867·2	897·0	895·4	79·2	+7·1	94	30	61·7	+5·9	52	3,4	66·1	76·9	51·8	56·7	7·6	—1·4	6·7
Drosh	4806	855·2	...	851·3	900·9	895·7	73·7	+4·8	88	30	55·1	+6·7	43	6	58·7	72·0	49·1	54·4	8·0	—0·8	7·4
Parachinar ...	5673	825·8	—0·1	824·5	795·8	795·2	75·6	+6·9	87	30	52·3	+5·4	41	10,11	60·8	72·0	50·1	56·2	8·5	+0·1	9·7
Wana (*) ...	4456																				
AFGHANISTAN																					
Jalalabad ...	1950	936·7	...	933·7	1002·5	996·8	89·9	...	103	29	61·8	...	51	12	70·2	87·6	60·1	68·6	13·6	...	16·2
Kabul	5955	820·4	...	818·2	798·5	796·9	71·0	+5·7	86	30	47·0	+4·3	32	11	52·1	69·3	44·0	51·8	7·0	—0·4	6·8
Kandahar ...	3462	900·6	...	897·5	904·0	900·9	85·7	...	98	29	51·6	...	40	10,11	62·5	82·6	55·6	(d) 71·4	12·3	...	21·7

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

Relative humidity %			Cloud Amount (Eighths of Sky).			PRECIPITATION.						Wind velocity in 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.	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	
23	24	25	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
						Inches	Inches	Inches																								BALUCHISTAN (North)—Contd.
45	...	24	0·4	...	1·1	0·23	...	0·22	8	1	...	10·7	...	2	4	15	3	2	0	1	0	3	0	0	0	0	2	5	20	3	0	Nushki
53	—3	34	0·5	—1·3	1·5	0·21	—0·35	0·16	6	1	—0·8	6·2	+1·6	1	0	0	17	4	1	0	2	5	2	0	0	1	0	12	0	15	0	Kalat
40	—5	25	0·7	—1·2	2·2	0·10	—0·20	0·10	6	1	—0·3	5·7	+1·4	0	5	3	0	1	2	0	1	18	1	2	5	4	3	4	11	0	0	Dalbandin
34	—11	23	0·6	—1·3	1·3	0·00	—0·35	0·00	...	0	—0·4	6·2	—0·2	7	2	5	1	1	1	1	3	9	9	1	0	0	8	1	2	5	4	Nokkundi
																																BALUCHISTAN (South).
68	0	20	0·0	—1·4	0·0	0·00	—0·54	0·00	...	0	—1·2	3·4	+0·9	0	1	0	0	0	0	0	0	29	12	12	0	1	3	1	1	0	0	Las Bela
68	—16	47	5·5	+3·7	0·2	0·00	—0·60	0·00	...	0	—0·8	12·4	+2·8	0	1	9	2	0	8	5	3	2	0	0	1	0	0	17	11	1	0	Ormara
80	—1	68	0·0	—1·4	0·0	0·00	—0·40	0·00	...	0	—0·5	8·1	+1·5	4	0	2	0	0	0	9	0	15	0	0	1	0	1	1	27	0	0	Pasni
37	...	14	0·5	—	0·2	0·00	...	0·00	...	0	...	7·7	...	0	8	1	6	0	2	0	0	12	1	5	0	0	0	9	7	3	2	Turbat
79	+16	73	0·8	—0·5	1·0	0·00	—0·39	0·00	...	0	—0·8	4·8	+0·1	3	17	6	0	0	0	0	0	4	3	2	0	1	1	12	2	9	0	Panjgur
																																SIND (Upper). Reti (R)
39	—7	25	0·5	—0·7	0·9	0·00	—0·17	0·00	...	0	—0·5	6·9	+2·2	0	0	6	6	0	2	2	6	8	0	2	0	7	3	6	2	8	2	Jacobabad
45	—6	19	0·7	—0·6	0·4	0·00	—0·10	0·00	...	0	—0·4	3·9	+0·5	6	3	1	5	9	2	2	1	1	3	5	0	2	2	4	12	2	0	Sakkur
51	...	18	0·7	...	0·3	0·00	...	0·00	...	0	...	5·4	...	5	3	1	8	4	1	3	2	3	9	0	0	0	1	3	11	6	0	Pad Idan
																																SIND (Lower).
61	+2	21	0·0	...	0·0	0·00	...	0·00	...	0	...	5·8	...	1	0	0	1	11	14	2	1	0	1	0	0	0	3	8	5	13	0	Umarkot
59	+7	55	0·4	—0·8	0·3	0·00	—0·07	0·00	...	0	—0·2	5·5	—0·1	3	1	0	0	1	19	1	0	5	1	6	0	0	5	16	0	2	0	Hyderabad
80	...	52	0·8	...	0·2	0·00	...	0·00	...	0	...	8·5	...	2	0	0	0	1	3	11	7	6	0	0	0	0	1	20	9	0	0	Karachi (Air Port)
79	—4	74	1·1	—1·0	0·4	0·00	—0·15	0·00	...	0	—0·2	8·5	+0·1	3	0	0	0	0	4	11	5	7	0	0	0	0	0	15	15	0	0	Karachi (Manora)
...	...	24	0·0	—1·2	0·0	0·00	0·00	0·00	...	0	0·0	0·0	...	0	0	1	1	1	8	1	0	18	1	0	0	0	1	8	4	0	16	Badin
																																HILL STATIONS (excluding Kashmir and Baluchistan).
41	—8	43	2·8	—0·3	4·4	1·87	—2·26	0·80	10	4	—3·1	5·1	—0·1	2	6	7	4	0	0	1	2	8	0	4	3	4	0	0	2	3	14	Murree
36	—18	27	1·5	—1·2	2·4	0·85	—1·93	0·45	3	3	—1·7	8·8	+1·7	26	0	0	0	4	0	0	0	0	20	0	0	1	8	0	1	0	0	Cherat
51	—8	30	2·7	—0·4	4·0	2·34	—1·74	1·05	10	6	—2·1	5·7	+3·1	0	9	2	9	0	2	0	0	8	0	14	0	1	0	7	1	2	5	Drosh
47	—11	37	2·5	—0·4	5·1	2·24	—1·79	0·52	5	6	—2·7	3·9	+1·5	0	10	3	2	0	1	2	3	9	0	4	1	19	0	3	0	3	0	Parachinar
																																Wana (*)
																																AFGHANISTAN.
57	...	38	2·5	...	3·8	0·61	...	0·46	3	2	...	2·4	...	4	2	1	1	0	4	10	3	5	0	0	10	1	1	7	2	1	8	Jalalabad
54	—5	32	2·3	—0·7	4·5	0·82	—2·48	0·33	3	2	—4·3	2·7	+0·7	1	1	2	2	4	7	7	5	1	7	10	4	3	2	1	0	3	0	Kalabul
65	...	(d) 59	1·4	—	1·7	0·38	...	0·19	6	2	...	1·8	...	0	4	0	0	0	0	0	0	26	0	2	0	0	0	12	0	2	14	Kandahar

(x) Data not available. (d) Data for 27 days.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0400 HRS.

STATIONS.	Height of bar cistern above mean sea level in feet.	Pressure at Stations 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.		
		Mean 0400 hrs. G.M.T.	Departure from normal.	Mean 1200 hrs. G.M.T.	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0400 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
IRAN																					
Jask	13	1008·8	...	1007·0	1009·1	1007·3	88·3	+1·7	95	23	74·6	+2·2	71	1,9,10	76·8	85·0	67·9	73·2	19·3	...	22·3
Bushire	14	1011·8	...	1010·6	1012·3	1011·1	78·7	...	99	21,27	64·6	...	59	9,10	68·3	75·4	60·4	66·3	14·1	...	17·8
ARABIA																					
Muscat	20	1008·9	...	1007·4	1009·4	107·9	90·4	+2·1	100	30	81·6	+2·9	75	11	84·1	86·9	69·6	72·3	18·1	...	20·7
Shanjah																					
Kuwait ...	16	1006·4	...	1004·4	1006·9	1005·0	93·7	...	100	13	79·6	...	70	2	81·5	90·7	70·0	73·2	19·4	...	20·3

Relative humidity %			Cloud Amount (Oktas.)			PRECIPITATION.						Wind velocity in knots.		Wind direction—Number of winds from :—																	STATIONS.
														0400 hrs. G.M.T.								1200 hrs. G.M.T.									
Mean 0400 hrs. G.M.T.	Departure from normal.	Mean 1200 hrs. G.M.T.	Mean 0400 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	
23	24	25	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
						Inches	Inches	Inches																								
																																IRAN.
63	—	54	0·4	—1·0	0·4	0·00	—0·24	0	—	0	—0·5	11·8	+4·6	0	1	5	1	0	1	13	8	1	0	0	1	0	2	13	14	0	0	Jask
63	...	61	2·9	...		0·00	0·00	0	...	0	...	10·3	...	7	5	3	1	0	0	0	8	6	3	0	2	1	0	0	13	5	6	Bushire
																																ARABIA.
48	...	50	0·4	—0·9	0·0	0·00	—0·34	0	—	0	—0·8	5·4	+2·0	0	0	0	0	1	1	3	14	11	0	0	0	1	0	0	0	19	10	Muscat
																																Shanjab
53	...	41																														Kuwait

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS—APRIL, 1949.

STATION.	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature °F 0300 hrs. G.M.T.	Mean wet bulb temperature °F 0300 hrs. G.M.T.	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 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
																Inches	Inches	Inches					
EAST BENGAL (North).																							
Pabna	91·2	—5·6	100	1,2	...	...	...	...	80·4	75·5	27·4	—0·1	78	+6	...	8·48	+5·93	2·71	28	12	+7·5	...	...
KASHMIR.																							
Jammu (x) ...																							
Kargil (x) ...																							
IRAN																							
Zahidan																							

(x) Data not available.

TABLE V—ABSTRACT OF OBSERVATIONS RECORDED AT 0230 HRS. G.M.T. AT 5TH CLASS STATIONS—APRIL, 1949.

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
		Inches	Inches	Inches			
EAST BENGAL (North).							
	Rajshahi (R)						
	Sirajganj	13·91	+10·64	3·75	29	12	+7·2
	Rangpur	9·08	+6·00	2·06	29	13	+8·6
KASHMIR.							
	Sonemarg (x)						
	Gurez (x)						
BALUCHISTAN (North).							
	Harnai (R)						

(R) Return not received. (x) Data not available.

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PAKISTAN WEATHER REVIEW 1949

Monthly Weather Report

May

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Chief Features.—Moderate to heavy rainfall occurred in East Pakistan between the 1st and 5th and again between the 23rd and 25th.

West Pakistan.—Four western disturbances affected weather in West Pakistan. The first one was feeble and moved across the extreme north of the region at the beginning of the month ; it caused a few dust or thunderstorms in the upper North West Frontier Province on the 1st.

The northwestern disturbance influenced weather over the northern parts of the region towards the end of the first Week and was followed by a well marked low which moved across the South Punjab between the 12th and the 13th. They caused local thundershowers in the upper North West Frontier Province and the north Punjab on the 5th and the the 9th. Local thundershowers were also reported from the North Punjab on the 11th while scattered dust or thunderstorms occurred over these areas on other days between the 6th and the 13th.

Thereafter, two westerly low pressure waves moved across the north of West Pakistan and accentuated the seasonal low. They caused local thunderstorms or showers in the North West Frontier Province and the North Punjab between the 19th and the 27th and a few dust or thunderstorms in the South Punjab on the 21st and 24th and in Baluchistan between the 22nd and the 27th.

The total rainfall during the month was in moderate defect in the North West Frontier Province and in large defect in the Punjab and north Baluchistan. No rainfall in Sind and south Baluchistan. Averaged over the 'plains of West Pakistan, it was in large defect.

The mean maximum temperature was normal in south Baluchistan and above normal elsewhere over West Pakistan. The mean minimum temperature was above normal outside lower Sind where it was normal. The mean relative humidity was in excess in north Baluchistan and normal elsewhere over the region. Skies were more clouded than usual in north Baluchistan, normally clouded in south Baluchistan and upper Sind less clouded elsewhere over the region.

East Pakistan.—Fairly widespread thunderstorms, some of which where associated with violent northeasterly squalls and heavy rains, occurred over East Pakistan between the 1st and the 5th. Local to fairly widespread thundershowers were reported from the eastern sub-division on the 6th and 8th in deltaic sub-division between the 6th and 9th. Isolated thundershowers occurred in the northern sub-division between the 7th and the 8th.

Thereafter, fairly widespread thunder-rain activity was experienced over the whole region on the 12th and 13th, in the northern sub-divisions on the 19th, 20th, and 23rd in the eastern sub-divisions on the 23rd and in deltaic sub-division on the 25th. Local scattered rainfall occurred practically over the whole region between the 14th and the 18th and in the deltaic sub-division between the 20th and the 24th.

Some of the outstanding amounts of rainfall recorded were Chittagong 3″ on the 1st and Bogra 3″ on 3rd, Srimangal 4″ and Comilla 3″ on 5th, Mymensingh 5″ and Comilla, Sirajganj and Bogra 3″ each on 23rd and Satkhira 3″ on 25th.

The total rainfall during the month was in large excess in northern sub-division and in moderate excess in the eastern and deltaic sub-divisions. The mean maximum temperature was below normal whereas the mean minimum temperature was normal over the whole region. The mean relative humidity was in excess in the northern and deltaic sub-divisions and normal in the Eastern Sub-division.

Skies were more clouded than usual in the northern sub-divisions and normally clouded in the other two 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 FOR MAY, 1949.

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		Degree	Degree	Mb.	%	
EAST BENGAL	13·75	9·73	+4·02	+41	−3·7	−0·5	0·0	+5	+0·7
Mean of East Pakistan	13·75	9·73	+4·02	+41	−3·7	−0·5	0·0	+5	+0·7
West Punjab	0·17	0·61	−0·44	−72	−4·7	−4·9	−1·8	0	−0·6
N. W. F. P.	0·51	0·73	−0·22	−30	+4·4	−4·1	+0·7	−1	−0·7
Baluchistan	0·06	0·26	−0·20	−77	+2·8	−3·1	+2·6	+5	+0·1
Sind	0·00	0·15	−0·15	−100	+2·3	−1·9	+1·9	+3	−0·2
Mean Of West Pakistan excluding Baluchistan	0·17	0·47	−0·30	−64	+3·8	−3·7	+1·6	+1	−0·5
East Bengal (North)	14·03	7·91	+6·12	+77	−5·3	−1·3	+0·2	+6	+1·4
East Bengal (East)	15·81	12·09	+3·72	+31	−3·0	+0·1	−0·2	+4	+0·5
East Bengal (Deltaic)	10·57	8·12	+2·45	+30	−3·8	−0·9	+0·1	+6	+0·6
Kashmir *									
North West Punjab	0·27	0·80	−0·53	−66	+4·7	+5·3	+2·9	+3	−0·6
South West Punjab	0·02	0·29	−0·27	−93	+4·6	+4·1	−0·2	−4	−0·6
N. W. F. P. (Upper)	0·56	0·77	−0·21	−27	+3·7	+3·1	+0·9	−2	−1·0
N. W. F. P. (Lower)	0·49	0·71	−0·22	−31	+4·6	+4·5	+0·6	−1	−0·5
Baluchistan (North)	0·09	0·32	−0·23	−72	+3·7	+3·3	+3·4	+7	+0·2
Baluchistan (South)	0·00	0·13	−0·13	−100	+1·5	+2·5	+1·1	+1	−0·2
Sind (Upper)	0·00	0·14	−0·14	−100	+2·3	+2·7	+1·3	+3	0·0
Sind (Lower)	0·00	0·16	−0·16	−100	+2·4	+1·6	+2·3	+3	−0·4

(*) Data incomplete.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of cistern above mean sea level in feet.	Pressure at Stations 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.		
		Mean 0030 hrs. G.M.T.	Departure from normal.	Mean 1200 hrs. G.M.T.	Mean 0030 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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST BENGAL (North)																					
Bogra	63	1004·8	+1·0	1001·0	1007·0	1003·2	86·8	—5·6	93	4 days	73·5	—0·8	68	1	79·2	83·4	75·7	77·6	28·6	—0·2	29·0
Dinajpur ...	123	1002·4	+0·8	998·3	1006·7	1002·5	87·0	—4·8	93	11,30	72·3	—1·9	66	3	79·8	84·7	75·6	77·8	28·8	+1·2	29·6
EAST BENGAL (East)																					
Cox's Bazar ...	38	1006·4	+0·6	1003·7	1007·7	1005·1	87·8	—1·0	93	23	74·5	—1·4	65	1	83·1	81·7	78·1	77·2	30·5	—0·9	30·2
Chittagong ...	87	1004·5	—1·4	1001·1	1007·5	1004·1	86·5	—2·4	92	27	75·1	—0·4	67	6	82·1	82·0	76·6	76·4	28·7	—1·7	28·7
Comilla	29	1006·3	+0·6	1002·5	1007·3	1003·5	88·0	—3·1	94	30	75·7	+0·8	67	5,6	81·9	82·8	78·0	78·5	30·9	—0·1	31·3
Narayanganj ...	26	1006·1	+0·6	1002·5	1007·1	1003·4	89·0	—2·1	95	30	75·8	0	66	4	83·6	83·4	77·5	77·2	30·0	—0·8	29·0
Brahmanbaria ...	32	1006·3		1002·5	1007·4	1003·5	87·2	—4·8	94	10,28, 30	74·5	+2·1	67	1,5	81·7	83·0	77·6	77·7	30·9	+2·0	30·5
Srimangal ...	69	1005·0	+0·3	1001·4	1007·4	1003·7	87·2	—3·9	93	27	72·2	0	66	5,6	77·8	81·6	75·4	76·7	29·0	+0·1	29·4
Mymensingh ...	62	1005·5	+0·7	1001·5	1007·6	1003·6	85·7	—3·6	91	12,30	73·9	—0·3	65	4	79·5	83·6	76·1	78·0	28·6	0·0	30·8
EAST BENGAL (Deltaic)																					
Faridpur ...	46	1004·8	+0·5	1000·9	1006·4	1002·5	85·0	—6·7	92	29	75·0	+0·1	67	1	82·4	83·2	77·8	77·6	30·2	—1·1	29·7
Barisal	11	1006·3	+0·5	1003·0	1006·7	1003·4	90·5	—1·2	94	21	75·0	—1·9	67	1	85·7	81·3	79·8	78·0	32·3	0·0	30·6
Khulna	16	1007·0	+1·8	1003·7	1007·5	1004·2	90·3	—2·6	97	25	76·1	—0·9	66	1	84·1	83·3	79·7	78·6	32·4	+0·5	31·3
Jessore	26	1005·8	+1·0	1001·8	1006·7	1002·7	89·9	—4·0	97	30,31	75·2	—0·6	67	4	83·4	84·3	78·8	77·9	31·3	—0·5	29·3
Satkhira ...	16	1005·0	+0·2	1001·9	1005·5	1002·5	90·7	—4·7	99	31	76·0	—1·4	66	1	80·7	85·6	79·0	78·6	33·7	+1·5	30·7
KASHMIR																					
Srinagar (x) ...	5205																				
Gulmarg (x) ...	8709																				
Dras (x) ...	10059																				
Leh (x)	11529																				
Skardu (x) ...	7505																				
Gilgit (x) ...	4890																				
Misgar	10190	700·4	—	698·3	704·1	701·9	61·5	—	75	9,10,11	33·5	—	21	12	47·8	59·3	41·1	45·4	6·9	—	5·8

(x) Data

Relative humidity %			Cloud Amount (Eighths of Sky).			PRECIPITATION.						Wind velocity in 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.	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	
23	24	25	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
						Inches	Inches	Inches																								
																																EAST BENGAL (North).
85	+8	77	6·3	+2·0	5·1	14·87	+6·47	3·37	4	12	+2·4	3·0	−0·6	1	2	10	6	3	4	2	0	3	0	1	10	8	3	2	0	0	7	Bogra
83	+6	72	5·2	+0·8	3·8	17·89	+10·54	3·65	28	15	−6·3	3·2	−0·2	0	10	9	1	0	0	1	1	9	0	6	12	0	0	0	0	0	13	Dinajpur
																																EAST BENGAL (East)
79	+1	82	4·8	+0·4	4·4	16·64	+4·90	3·27	1	13	+2·5	2·7	−0·9	0	0	2	5	9	1	0	0	14	0	0	3	1	10	8	0	1	8	Cox's Bazar
77	0	77	5·4	+1·0	5·5	10·70	+0·28	2·65	1	10	−0·8	4·8	+0·5	0	5	7	11	4	2	1	0	1	1	1	0	5	9	11	2	1	1	Chittagong
83	+8	81	5·0	+1·2	4·7	26·10	+13·71	4·65	5	14	+2·2	5·5	+1·1	0	0	1	6	18	0	5	0	1	1	0	2	4	17	4	1	1	1	Comilla
76	−1	77	3·7	−1·1	3·1	15·29	+5·65	4·68	4	13	+2·0	3·7	−0·2	1	0	6	3	14	4	0	1	2	1	0	6	4	15	1	1	1	2	Narayanganj
83	+8	79	5·2	+0·2	4·2	11·59	−0·20	1·63	13	14	+2·3	3·4	—	2	1	4	2	12	2	1	0	7	0	0	1	2	12	2	2	0	12	Brahmanbaria
89	+8	80	5·8	+1·6	5·1	11·99	−3·80	3·64	5	15	−0·3	2·1	−1·2	0	3	12	2	7	0	1	0	6	0	4	5	1	9	0	3	0	9	Srimangal
85	+6	77	5·4	+0·2	4·6	18·37	+5·91	5·17	23	13	0·0	3·0	+0·7	0	0	0	6	0	0	0	0	25	0	0	0	4	0	0	0	0	27	Mymensingh
																																EAST BENGAL (Deltaic).
81	+4	77	5·7	+1·6	4·7	16·36	+6·74	4·14	14	10	−1·0	5·4	−1·0	1	2	1	10	11	2	1	1	2	0	1	0	12	13	1	1	1	2	Faridpur
76	+1	77	5·3	+0·8	4·9	8·46	+0·21	1·90	5	10	+0·4	3·3	+0·2	0	0	0	7	2	11	0	0	11	0	1	0	5	4	7	0	0	14	Barisal
78	+3	79	4·6	−0·5	3·5	4·19	+3·56	1·50	25	5	−4·7	3·8	−0·4	0	2	5	4	11	0	2	1	6	0	0	3	8	12	0	2	0	6	Khulna
81	+4	75	4·2	−0·1	3·6	9·20	+1·08	2·23	1	9	−0·1	4·7	+1·6	2	3	3	6	11	6	0	0	0	0	0	2	8	16	3	0	1	1	Jessore
91	+17	73	5·0	+1·0	5·6	14·64	+7·77	3·41	25	12	+3·8	3·5	+0·1	0	1	0	20	0	3	0	2	5	0	2	0	23	0	2	0	0	4	Satkhira
																																KASHMIR.
																																Srinagar (x)
																																Gulmarg (x)
																																Dras (x)
																																Leh (x)
																																Skardu (x)
																																Gilgit (x)
60	—	39	5·3	—	6·7	1·54	—	0·45	12	6	—	5·0	—	2	5	4	5	2	1	9	3	0	0	2	13	8	0	1	5	3	0	Misgar

not available.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of bar cistern above mean sea level in feet.	Pressure at Stations 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.		
		Mean 0030 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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	12	22
NORTH PUNJAB																					
Lahore	702	977·6	—1·2	974·1	1001·1	996·8	108·3	+4·6	113	1	79·4	+7·2	72	29	89·1	106·2	72·1	74·8	19·2	+3·7	15·2
Sialkot	830	973·4	—1·3	969·7	1001·0	996·6	106·4	+4·2	112	17,18,19	81·3	+7·0	73	21	90·4	104·3	70·6	75·9	16·6	+1·3	17·5
Jhelum	765	975·7	—	971·9	1001·1	996·5	105·4	—	112	18	75·7	—	69	3,29	89·1	102·9	72·2	77·5	20·1	—	23·3
Rawalpindi ...	1674	946·2	—1·4	943·2	1001·1	997·4	102·8	+5·1	111	18	74·3	+5·6	68	21	87·0	98·2	68·9	75·6	16·8	+2·6	21·0
Khushab ...	616	980·4	—1·8	976·5	1001·0	996·5	108·3	+4·6	114	16	77·5	+1·2	70	28	90·0	105·8	72·9	80·6	19·9	+5·2	24·2
Lyallpur	605	979·9	—2·2	976·5	1000·2	996·2	107·5	+5·1	111	1,8,18	79·6	+5·7	74	21,28,29	88·5	105·3	69·7	72·9	16·3	+1·9	13·0
SOUTH PUNJAB																					
Montgomery ...	558	982·0	—1·5	978·5	1000·7	996·5	109·1	—3·7	113	4 days	80·3	+3·4	73	5	89·7	107·0	71·0	75·5	17·5	—3·6	15·8
Multan	413	986·4	—2·1	983·3	1000·2	996·3	110·8	+6·0	118	11	82·4	+5·0	73	2	87·7	108·6	72·1	80·6	20·7	+0·6	24·2
Fort Abbas ...	475	—	—	—	1000·4	996·1	112·8	—	118	11	84·0		78	4,14	94·1	109·8	71·0	73·8	15·4	—	12·1
Bahawalpur ...	384	987·8	—1·3	983·8	1000·7	996·2	110·2	+4·0	116	11	79·9	+4·0	71	13	88·3	108·4	74·5	80·7	23·0	+2·5	23·1
Khanpur ...	297	990·5	—2·5	986·7	1000·8	996·4	113·2	+4·6	119	10	80·6	+4·3	72	4	90·5	111·2	73·2	75·6	20·1	+2·0	14·1
N.W.F.P. (Upper)																					
Chakdara ...	2197	928·6	—	924·6	1002·9	996·0	97·9	—	105	17,18	70·3	—	60	27	80·1		95·6				
Peshawar ...	1175	963·1	—1·6	959·4	1002·2	998·0	100·7	+3·7	108	17,18	73·5	+3·1	67	29	87·3	97·6	68·2	69·3	15·0	+0·9	11·7
Landikotal (*) ...	3503																				
N.W.F.P. (Lower).																					
Bannu	1264	958·5	—	955·2	1000·7	996·1	103·6	+3·8	109	4 days	76·8	+5·3	70	21	84·9	100·7	69·7	75·2	17·9	+3·5	18·2
Miranshah ...	3026	902·4	—	899·9	892·3	890·2	98·6	+5·7	104	11	73·7	+4·3	67	22	78·3	95·5	62·0	68·1	12·6	—0·3	12·3
D. I. Khan ...	570	981·8	—1·8	978·3	1000·9	996·7	107·9	+4·4	112	7	78·6	+3·9	73	17	88·0	106·2	70·7	79·1	17·9	—1·3	21·6
BALUCHISTAN (North).																					
Fort Sandeman ...	4614	856·0	—0·4	853·4	894·9	893·7	96·7	+6·2	102	10,20	68·3	+4·4	64	2,3,4	71·0	94·0	61·7	79·9	14·8	+5·7	29·2
Hindubagh ...	5950	818·7	—	816·2	796·3	793·8	90·4	—	97	10	59·5	—	53	3	73·6	86·9	54·0	58·6	7·2	—	6·5
Loralla	4699	853·0	—	849·9	893·6	889·1	95·3	—	99	3	63·7	—	57	4	74·0	91·1	57·9	66·7	10·0	—	12·3
Harnai	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sibi	441	987·5	+0·2	982·9	1000·8	995·6	113·5	+4·3	120	11	85·1	+3·8	76	5	92·2	113·1	75·7	86·6	23·4	+10·8	32·5
Quetta	5490	830·1	—1·4	827·0	795·2	793·6	88·4	—	94	10	53·8	—	45	14	68·3	86·9	63·5	79·0	17·9	+5·4	30·9
Quetta (Samangli	5253	839·4	—	836·8	797·4	796·3	90·1	—	97	10	52·9	—	41	5,16	69·1	87·7	56·6	65·7	11·1	—	13·5
Chaman	4311	867·1	+0·7	864·2	896·0	891·9	94·4	+4·0	100	9,10	69·1	+4·0	55	1	80·9	92·2	67·4	81·3	17·5	+8·0	32·8

(*) Data

Relative humidity %			Cloud Amount (Eighths of Sky).			PRECIPITATION						Wind velocity in 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.	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	
23	24	25	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
						Inches	Inches	Inches																								
																																NORTH PUNJAB.
41	+5	20	0·6	—0·9	1·3	0·00	—0·59	0·00		0	—1·3	3·5	+1·5	0	1	5	10	1	1	2	1	10	1	2	1	2	1	1	6	1	16	Lahore
35	—3	24	2·2	+1·0	3·3	0·42	—0·57	0·26	24	2	0·0	3·6	+1·6	6	14	4	4	1	0	0	1	1	1	3	1	2	2	6	7	7	2	Sialkot
43	—	29	1·3	—	2·9	0·08	—	0·04	19,26	0	—	3·5	—	0	4	3	7	1	1	3	5	7	0	1	0	6	2	13	4	3	2	Jhelum
39	+6	35	1·2	—0·5	4·4	0·84	—0·41	0·27	14,19	3	+0·5	3·0	+0·7	0	1	0	0	0	0	2	0	28	1	2	2	0	1	3	8	1	13	Rawalpindi
42	+8	32	0·2	—1·1	0·9	0·00	—0·76	0·00	—	0	—1·6	5·8	+1·0	0	7	9	8	0	1	0	0	6	1	4	8	8	5	4	1	0	0	Khushab
35	—1	17	0·5	—1·4	1·2	0·08	—0·35	0·08	20	0	—1·2	2·0	—0·4	3	3	2	5	4	4	1	0	9	4	2	1	1	4	5	4	1	9	Lyallpur
																																SOUTH PUNJAB.
37	—13	20	0·6	—0·3	0·7	0·05	—0·31	0·03	24	0	—1·1	2·5	—1·2	1	0	0	11	6	5	0	1	7	1	0	0	0	1	7	7	2	13	Montgomery
44	—3	26	0·2	—0·6	0·2	0·00	—0·33	0·00	—	0	—0·7	2·5	+0·7	3	0	0	0	1	8	0	5	14	2	0	0	0	3	10	1	6	9	Multan
28	—	14	0·8		1·3	0·00	—	0·00	—	0	—			1	0	3	3	6	3	13	2	0	4	1	2	0	2	7	9	5	1	Fort Abbas
50	+4	28	0·2	—0·9	0·2	0·00	—0·18	0·00	—	0	—0·5	3·2	+0·1	3	3	0	0	10	1	1	0	15	1	0	0	0	4	6	3	2	15	Bahawalpur
43	0	16	0·6	0·0	0·6	0·00	—0·17	0·00	—	0	—0·4	4·0	—0·9	2	4	0	1	4	10	7	1	2	2	2	0	0	2	8	11	6	0	Khanpur
																																N.W.F.P. (Upper)
			0·8	—	1·8	0·00	—	0·00	—	0	—	4·9	—	11	0	1	0	0	0	4	12	3	0	3	1	12	2	2	0	4	7	Chakdara
34	—2	20	1·5	—1·0	4·2	0·56	—0·21	0·21	11	3	+1·0	3·1	+0·8	1	1	1	5	2	1	0	1	19	1	8	6	0	1	5	1	2	7	Peshawar
																																Landikotal (*)
																																N.W.F.P. (Lower)
45	+6	30	0·5	—0·5	2·8	0·65	+0·04	0·53	21	1	—0·5	3·2	—	0	1	1	1	1	1	2	12	12	1	2	10	8	2	0	0	2	6	Bannu
38	—2	22	0·8	—0·2	3·1	0·82	—0·32	0·44	24	3	+0·6	6·2	+1·5	2	3	1	2	2	1	2	5	13	1	3	10	12	2	1	0	2	0	Miranshah
39	—8	28	0·1	—0·9	1·0	0·00	—0·39	0·00	—	0	—1·0	2·6	+0·8	10	7	1	1	0	1	1	1	9	1	9	2	4	2	2	2	0	9	D. I. Khan
																																BALUCHISTAN (North).
59	+5	56	1·2	0·0	2·9	0·00	—0·91	0·00	—	0	—2·1	2·5	—0·3	0	0	0	0	2	0	0	0	29	2	1	1	2	2	5	4	3	11	Fortsandeman
26	—	15	1·5	—	2·8	0·00	—	0·00	—	0	—	8·1	—	0	0	0	0	0	15	11	1	4	0	2	0	0	0	12	11	6	0	Hindubagh
38	—	29	0·7	—	3·5	0·59	—0·01	0·55	23	1	—	5·1	—	0	0	4	0	1	0	3	2	21	2	0	1	1	8	3	14	0	2	Loralia
—	—	—	—	—	—	0·12	—0·38	0·12	24	1	+0·1	—	—																			Harnai
44	+16	33	1·6	+0·6	2·4	0·00	—0·14	0·00	—	0	—0·5	5·6	+1·5	0	1	1	1	0	2	6	11	9	1	0	4	4	0	8	9	3	2	Sibi
77	+23	72	0·9	—0·1	2·0	0·00	—	0·00	—	0	—	4·5	+2·1	1	2	1	3	9	1	4	3	7	1	2	0	3	1	3	14	6	1	Quetta
47	—	32	1·2	—	2·5	0·00	—	0·00	—	0	—	6·5	—	2	0	1	7	2	0	5	1	13	0	0	0	3	1	0	12	11	4	Quetta (Samungli)
49	+16	74	1·2	+0·2	1·2	0·00	—0·13	0·00	—	0	—0·4	—	—	0	1	0	0	1	6	4	0	19	1	0	0	0	0	3	8	17	2	Chaman

rejected.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of bar cistern above mean sea level in feet.	Pressure at Stations 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.		
		Mean 0330 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 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
BALUCHISTAN (North)—Contd.																					
Nushki	3412	897·4	—	896·3	899·3	897·9	101·6	—	108	31	74·9	—	65	13	82·6	99·5	65·8	73·5	13·8	—	17·1
Kalat	6616	799·6	+0·7	797·7	797·1	795·3	84·5	+1·5	91	7,8	53·4	+1·4	42	1,2,3	67·9	81·3	55·0	61·9	10·1	—0·5	11·6
Dalbandin ...	2785	915·2	—0·2	909·8	895·3	892·7	102·9	+2·6	108	9	69·6	+3·6	62	16	79·5	104·4	58·1	67·8	7·8	—2·6	8·4
Nokkundi ...	2229	930·0	—	926·4	1002·3	997·5	106·2	+3·8	113	30,31	77·3	+2·8	67	2	87·1	103·7	65·2	70·6	12·2	—3·3	12·9
BALUCHISTAN (South).																					
Las Bela	292	993·8	—1·2	988·1	1003·5	998·6	109·2	+3·2	120	29	77·3	+3·7	70	3	84·5	106·7	77·8	82·7	29·8	+0·2	27·9
Ormara	15	1002·9	—	999·7	1003·4	1000·3	93·8	+1·1	104	2	80·7	+1·2	78	10,18,24	87·3	89·9	77·2	78·5	26·9	—3·7	28·1
Pasni	10	1003·3	—1·9	1000·6	1003·6	1000·9	95·0	+0·7	107	2	76·8	+2·6	72	22	82·5	90·2	77·9	82·6	30·8	+1·5	33·7
Turbat	510	988·0	—	984·4	1004·0	1000·1	113·9	—	123	30	79·2	—	76	3	89·7	110·9	76·0	79·2	24·5	—	20·0
Panjgur	3177	904·2	+3·2	898·3	895·0	893·0	98·9	+1·0	106	31	—	—	—	—	76·7	98·3	69·9	88·1	22·2	+6·6	41·1
SIND (Upper)																					
Reti (R) ...	280																				
Jacobabad ...	183	994·4	—1·9	990·8	1000·7	996·8	113·6	+2·5	116	11	82·5	+2·7	74	4	90·6	112·5	76·8	81·2	25·3	+1·6	22·3
Sukkur	221	993·0	—2·1	989·5	1000·5	996·7	109·5	+2·1	115	9	—	—	—	—	84·7	108·6	72·5	77·9	21·9	+1·0	18·8
Pad Idan ...	153	996·0	—	993·8	1001·1	997·7	113·2	—	118	11	78·3	—	69	2	87·9	111·2	74·9	79·0	23·7	—	19·3
SIND (Lower)																					
Umarkot ...	55	1000·6	—	996·7	1002·6	998·6	109·1	—	115	24	78·6	—	75	3,15,16	86·8	109·0	79·3	81·2	31·0	—	23·3
Hyderabad ...	96	999·9	—0·7	995·0	1003·3	998·2	111·3	+4·3	117	4 days	80·0	+1·8	77	2	86·6	106·9	77·5	77·5	28·1	+4·6	18·8
Karachi (Airport)	73	1000·8	—	998·3	1003·4	1000·8	97·3	—	112	28	79·8	—	77	1	83·7	91·9	78·6	79·4	31·0	—	28·7
Karachi (Manora)...	13	1002·9	—2·1	1000·4	1003·4	1000·8	89·2	+0·6	97	3 days	80·9	+1·9	79	5 days	82·9	86·9	79·1	81·3	32·0	+1·0	34·2
Badin	31	1002·7	—0·5	999·6	1003·9	1000·6	106·1	+2·2	114	9	79·4	+1·1	77	15	84·9	100·7	77·9	80·9	29·8	+1·3	26·4
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN																					
Murree	7113	783·6	+0·2	782·5	795·0	793·8	78·2	+3·1	85	18	59·4	+3·8	49	21	68·7	73·6	55·7	59·6	9·3	+0·8	11·2
Cherat	4272	866·0	—0·2	864·0	894·1	891·5	91·0	+5·7	100	18	70·4	+4·0	60	29	76·5	87·8	60·6	65·3	11·8	+1·6	12·1
Drosh	4806	852·1	—	847·7	896·8	890·9	87·2	+5·7	95	17,18	65·0	+6·0	57	27	69·9	83·5	56·4	58·9	10·1	—1·0	7·1
Parachinar ...	5673	824·4	+0·1	823·0	795·1	794·2	85·2	+5·7	92	17,18	61·3	+5·7	55	2	71·2	79·8	58·8	66·5	12·5	+2·7	17·8
Wana*	4456																				
AFGHANISTAN.																					
Jalalabad ...	1950	931·5	—	928·2	995·4	989·5	101·3	—	108	17,18	72·7	—	64	3,27	80·8	98·8	70·5	80·7	21·3	—	28·3
Kabul	5955	819·0	—	816·5	797·4	795·7	82·4	+4·2	89	18,19	52·8	+1·7	40	2	59·9	76·8	50·3	57·7	9·0	+0·1	10·2
Kandahar ...	3462	895·4	—	892·5	898·8	895·7	94·4	—	100	9,18,22	58·2	—	48	3	72·0	91·6	60·8	71·0	15·7	—	17·5

(R) Register not received.

Relative humidity %			Cloud Amount (Eighths of Sky).			PRECIPITATION.						Wind velocity in 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.	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	
23	24	25	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
						Inches	Inches	Inches																								BALUCHISTAN (North)—Contd.
39	—	37	0·8	—	1·6	0·00	—	0·00	—	0	—	8·7	—	2	4	12	5	3	0	2	1	2	4	0	1	0	1	2	18	5	0	Nushki
53	+9	53	0·6	—0·2	2·1	0·00	—0·20	0·00	—	0	—0·7	5·9	+1·1	0	3	0	19	2	0	0	3	4	0	1	0	3	0	3	0	24	0	Kalat
23	—9	14	2·3	+1·4	4·2	0·00	—0·07	0·00	—	0	—0·2	4·7	+0·3	1	6	3	0	0	0	1	0	20	1	6	3	0	1	1	10	4	3	Dalbandin
28	—12	16	0·7	—0·3	1·2	0·00	—0·02	0·00	—	0	0	7·5	—0·5	7	0	4	2	2	0	0	5	11	12	0	1	0	4	0	3	9	2	Nokkundi
																																BALUCHISTAN (South).
73	—2	37	2·1	+0·7	2·4	0·00	—0·42	0·00	—	0	—0·9	3·2	+0·2	1	1	0	0	4	3	0	0	22	2	0	2	11	10	2	1	1	2	Lasbela
72	—11	62	1·7	—0·3	0·6	0·00	0·00	0·00	—	0	0	16·9	+6·3	0	1	1	1	0	11	14	2	1	0	0	0	0	1	14	15	1	0	Ormara
82	+1	73	0·0	—1·7	0·0	0·00	—0·01	0·00	—	0	0	6·0	—1·1	2	0	4	0	0	0	16	1	8	0	0	2	0	0	0	27	1	1	Pasni
68	—	20	0·0	—	0·0	0·00	0·00	0·00	—	0	—	6·9	—	2	6	2	1	1	7	4	6	2	0	0	0	2	1	13	6	6	2	Turbat
70	+16	67	1·0	+0·4	1·2	0·00	—0·11	0·00	—	0	—0·3	5·5	+1·0	2	17	1	1	0	1	0	5	3	4	0	1	1	0	8	1	15	0	Panjgur
																																SIND (Upper)
																																Reti (R)
52	+5	24	(a) 0·5	0·0	(a) 1·0	0·00	—0·14	0·00	—	0	—0·4	7·3	+3·0	2	1	5	12	2	0	0	7	2	0	1	1	9	3	11	3	2	1	Jacobabad
54	+1	21	0·4	0·0	0·7	0·00	—0·14	0·00	—	0	—0·2	3·4	0·0	5	2	4	5	7	5	2	1	0	3	1	0	2	4	10	9	1	1	Sukkur
54	—	26	0·5	—	1·4	0·00	—	0·00	—	0	—	6·3	—	1	1	2	12	9	2	1	1	2	1	0	3	3	9	3	6	3	3	Pad Idan
																																SIND (Lower)
71	—	28	0·2	—	0·0	0·00	—	0·00	—	0	—	9·9	—	0	0	0	0	4	25	2	0	0	0	0	0	0	3	18	10	0	0	Umarkot
65	+6	26	0·0	—0·5	0·6	0·00	—0·19	0·00	—	0	—0·4	8·2	+0·5	0	1	0	0	4	23	1	0	2	0	1	0	1	5	22	2	0	0	Hyderabad
79	—	59	3·4	—	1·1	0·00	—	0·00	—	0	—	13·7	—	0	0	0	0	2	8	19	1	1	0	0	0	0	3	17	11	0	0	Karachi (Airport)
84	—1	77	2·6	0·0	1·7	0·00	—0·06	0·00	—	0	—0·1	11·0	+0·9	0	0	0	0	0	11	17	3	0	0	0	0	0	1	15	15	0	0	Karachi (Manora)
73	+3	40	0·5	—0·7	0·2	0·00	—0·22	0·00	—	0	—0·2	4·9	—	0	0	0	0	3	10	14	1	3	0	0	0	0	2	9	16	0	4	Badin
																																HILL STATIONS (excluding Kashmir and Baluchistan.)
45	+4	46	1·9	—0·1	5·1	2·40	—0·22	0·46	19	9	+4·2	5·9	+1·4	2	4	8	3	0	0	3	1	10	0	1	4	2	0	1	8	9	6	Murree
38	—3	29	0·9	—0·8	2·4	0·69	—0·96	0·45	11	3	+0·3	7·5	+0·6	23	0	1	1	6	0	0	0	0	12	0	2	0	15	0	2	0	0	Cherat
41	—16	20	2·0	0·0	4·0	0·37	—1·54	0·10	19	1	—3·5	4·6	+1·5	1	9	2	1	0	3	0	0	15	0	6	0	1	1	19	2	1	1	Drosh
48	+2	54	1·0	—0·8	4·7	2·99	+0·68	0·95	23	9	+2·3	3·5	+0·9	1	7	3	1	0	4	2	5	8	2	4	2	15	2	3	0	3	0	Parachinar
																																Wana (*)
																																AFGHANISTAN.
60	—	45	1·0	—	4·1	0·28	—	0·28	20	1	—	2·5	—	1	3	1	0	0	3	12	6	5	0	6	3	5	1	4	4	1	7	Jalalabad
51	+4	32	0·6	—1·2	4·5	0·43	—0·42	0·23	23	2	—0·5	2·7	+0·7	0	0	1	0	3	6	10	7	4	9	8	2	2	1	1	2	3	3	Kabul
52	—	35	0·4	—	1·3	0·00	—	0·00	—	0	—	1·5	—	0	0	0	0	0	0	0	0	31	0	0	0	0	0	10	0	1	20	Kandahar

(*) Data rejected. (a) Mean of 30 days.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0400 HRS.

STATIONS.	Height of bar cistern above mean seal level in feet.	Pressure at Stations 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.		
		Mean 0400 hrs. G.M.T.	Departure from normal.	Mean 1200 hrs. G.M.T.	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0400 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
IRAN.																					
Jask	13	1004·4	—	1001·2	1004·9	1001·6	95·8	+3·1	101	8	81·4	+3·2	74	3	84·7	93·7	75·8	80·2	26·1	—	28·8
Bushire																					
ARABIA.																					
Muscat	20	1003·2	—	1001·7	1003·7	1002·2	96·2	—0·1	104	4	86·1	+0·4	82	10	89·3	92·0	78·8	78·4	28·2	—	27·1
Shanjab																					
Kuwait ...	16	1006·4	—	1004·4	1006·9	1005·0	93·7	—	100	13	79·6	—	70	2	81·5	100·5	78·1	88·9	28·8	—1·9	27·2

Relative humidity %			Cloud Amount (Oktas).			PRECIPITATION						Wind velocity in knots.		Wind direction—Number of winds from :—																	STATIONS.
														0400 hrs. G.M.T.									1200 hrs. G.M.T.									
Mean 0400 hrs. G.M.T.	Departure from normal.	Mean 1200 hrs. G.M.T.	Mean 0400 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	
23	24	25	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
						Inches	Inches	Inches																								IRAN.
66	...	55	1·4	+0·8	1·5	0·00	—0·01	0·00	...	0	0·0	6·8	—0·4	2	1	13	0	0	0	6	9	0	0	0	0	0	4	10	16	1	0	Jask
																																Bushire
																																ARABIA
63	...	55	0·2	—0·4	0·2	0·00	0·00	0·00	...	0	0·0	3·8	+0·6	1	0	1	1	0	3	1	8	16	0	0	0	2	0	2	0	5	22	Muscat
																																Sharjah
69	—6	48	0·2	...	0·4	0·00	...	0·00	...	0	...	5·0		19	11	0	0	0	0	0	0	1	18	17	0	0	0	0	0	0	1	Kuwait

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS—MAY, 1949.

STATION.	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature °F 0830 hrs. G.M.T.	Mean wet bulb temperature °F 0830 hrs. G.M.T.	Vapour pressure, inches.		Relative Humidity %		Mean cloud amount 0230 hrs. G.M.T.	PRECIPITATION.						Wind.	
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.			Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 0230 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 0230 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
																Inches	Inches	Inches					
EAST BENGAL (North).																							
Pabna	89·3	—5·5	97	30	...	...	...	...	82·2	78·1	30·9	—0·3	83	+4	...	6·77	—0·58	1·67	14	10	+0·2	...	...
KASHMIR.																							
Jammu (x)... ...																							
Kargil (x)																							
IRAN.																							
Zahidan																							

(x) Data not available.

TABLE V—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 5TH CLASS STATIONS—MAY, 1949.

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
		Inches	Inches	Inches			
EAST BENGAL (North).							
	Rajshahi (R)						
	Sirajganj	14·80	+6·72	4·22	13	13	+2·5
	Rangpur	15·82	+4·99	3·08	17	15	+3·5
KASHMIR.							
	Sonemarg (x)						
	Gurez (x)						
BALUCHISTAN (North)							
	Harnai	0·12	−0·38	0·12	24	1	+0·1

(R) Report not received. (x) Data not available.

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PAKISTAN WEATHER REVIEW 1949

Monthly Weather Report

June.

PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN

Chief Features.—Monsoon was fairly active in East Pakistan throughout the month.

West Pakistan.—Five western disturbance or low pressure wave affected in West Pakistan. The first low pressure wave moving across west Pakistan caused scattered dust or thunder storms in north Baluchistan, upper Sind and the North West Frontier Province on 2nd and local thundershowers in the Punjab on 2nd and 3rd. This was followed by another well-marked disturbance which caused local duststorms in north Baluchistan and the south Punjab from 4th to the 6th and local thundershowers in the north Punjab and the North West Frontier Province from the 5th to the 8th. Isolated duststorms were also reported from Sind on the 7th.

After about a week, two low pressure waves moved across the region causing a few dust or thunderstorms with light showers in the North West Frontier Province, the West Punjab, upper Sind and northeast Baluchistan from the 14th to the 18th. During the last week a western disturbance moving across the extreme north of the region accentuated the seasonal trough of low pressure over Baluchistan and the southwest Punjab causing incursion of moist air. Scattered to local showers occurred in the Punjab from the 23rd to the 29th and in the North West Frontier Province from the 25th to the 29th. A few showers were also reported from Sind and north Baluchistan on the 27th and the 28th.

The total rainfall during the month was in large excess in the upper North West Frontier Province and upper Sind, in moderate excess in the lower North West Frontier Province, in slight excess in north Baluchistan, normal in the southwest Punjab, in moderate defect in the north-west Punjab and in large defect in south Baluchistan and lower Sind. Averaged over the plains, the rainfall was in moderate defect.

The mean maximum and minimum temperatures were normal in the south Baluchistan and lower Sind and below normal elsewhere in the region.

The mean relative humidity was in excess in north Baluchistan in defect in south Baluchistan and lower Sind and normal elsewhere. Skies were more clouded than usual in the west Punjab, the North West Frontier Province, north Baluchistan and upper Sind and less, clouded in south Baluchistan and lower Sind.

East Pakistan.—Scattered to local rain fell in the region upto 8th with local heavy to very heavy falls. Thereafter, the monsoon activity increased and caused fairly widespread rain with locally heavy to very heavy falls in the third week, however, monsoon activity weakned in the northern and the Deltaic sub-divisions.

Some of the noteworthey amounts of rainfall recorded during the month were :—Rangpur 3" on 2nd, Cox's Bazar 7" Chittagong, Comilla, Brahmanbaria 3" each on 5th, Sirajganj 4" on 6th, Comilla 4" on 10th, Chittagong 6" on 11th, Cox's Bazar 4" on 12th, Sirajganj 4" on 13th, Brah manbaria and Srimangal 6" each on 15th, Mymensingh, Dinajpur 4", Srimangal 3" on 21st, Rangpur 5", Chittagong Mymensingh, Srimangal 3" each on 22nd, Comilla 9", Mymensingh 8" Cox's Bazar 4, on 23rd, Sirajganj 4" on 24th Rangpur 6" on 28th and 4" on 29th. Barisal 7" Khulna 6" Cox's Bazar 4" on 30th.

The total rainfall during the month was in large excess in northern sub-division, in moderate excess in eastern sub-division and in slight excess in Deltaic sub-division.

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

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

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT

ERRATA TO MONTHLY WEATHER REPORT FOR JUNE 1949.

S.No.	Page.	Station	Col. No.	Hour.	Remarks. For	Read.
1.	1	Text (line2)	-	-	-	Insert "Weather between 'affected and in West Pakistan.
2.	4	Srimangal	12	-	70.2	76.2
3.	4	Mymensingh	7	1200	997.6	999.6
4.	5	Dinajpur	36	-	+10.6	+0.6
5.	10	Sub-heading	3	-	Mean 0230 hrs. G.M.T.	Mean 0400 hrs. G.M.T.
6.	10	-do-	5	-	Mean 1130 hrs. G.M.T.	Mean 1200 hrs. G.M.T.
7.	10	-do-	6	-	Mean 0230 hrs. G.M.T.	Mean 0400 hrs. G.M.T.
8.	10	-do-	7	-	Mean 1130 hrs. G.M.T.	Mean 1200 hrs. G.M.T.
9.	10	-do-	16	-	Mean 0230 hrs. G.M.T.	Mean 0400 hrs. G.M.T.
10	10	-do-	17	-	Mean 1130 hrs. G.M.T.	Mean 1200 hrs. G.M.T.
11.	10	-do-	18	-	Mean 0230 hrs. G.M.T.	Mean 0400 hrs. G.M.T.
12.	10	-do-	19	-	Mean 1130 hrs. G.M.T.	Mean 1200 hrs. G.M.T.
13.	10	-do-	20	-	Mean 0230 hrs. G.M.T.	Mean 0400 hrs. G.M.T.
14.	10	-do-	22	-	Mean 1130 hrs. G.M.T.	Mean 1200 hrs. G.M.T.
15.	11	do-	23	-	Mean 0230 hrs. G.M.T.	Mean 0400 hrs. G.M.T.
16.	11	-do-	25	-	Mean 1130 hrs. G.M.T.	Mean 1200 hrs. G.M.T.
17.	11	-do-	26	-	Mean 0230 hrs. G.M.T.	Mean 0400 hrs. G.M.T.
18.	11	-do-	28	-	Mean 1130 hrs. G.M.T.	Mean 1200 hrs. G.M.T.
19.	11	-do-	37-45	-	Mean 0230 hrs. G.M.T.	0400 hrs. G.M.T
20.	11	-do-	46-54	-	Mean 1130 hrs. G.M.T.	1200 hrs. G.

(*I*).

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS FOR JUNE, 1949.

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		Degree	Degree	Mb.	%	
East Bengal	23·19	15·76	+7·43	+47	—0·5	+0·2	—0·7	+3	+0·4
Mean of East Pakistan	23·19	15·76	+7·43	+47	—0·5	+0·2	—0·7	—3	+0·4
West Punjab	0·85	1·35	—0·50	—37	—2·3	—2·4	—3·3	—1	+1·0
N. W. F. P.	0·89	0·69	+0·20	+29	—4·5	—3·4	—3·2	—2	+1·3
Baluchistan	0·22	0·24	—0·02	—8	—4·1	—1·7	—0·5	+2	—0·1
Sind	0·29	0·43	—0·14	—33	—1·2	+0·4	—1·7	—4	—0·9
Mean of West Pakistan excluding Baluchistan	0·67	0·93	—0·26	—28	—2·3	—1·6	—2·7	—2	+0·4
East Bengal (North)	25·31	13·21	+12·10	+92	—0·6	0·0	+1·3	+3	+0·6
East Bengal (East)	27·15	19·30	+7·85	+41	—0·6	+1·1	+0·6	+3	+0·4
East Bengal (Deltaic)	15·51	13·14	+2·37	+18	—0·4	—1·1	+0·5	+2	+0·3
Kashmir*									
North West Punjab	1·00	1·79	—0·79	—44	—2·1	—2·4	—2·6	+1	+1·1
South West Punjab	0·60	0·60	0·00	0	—2·7	—2·3	—4·4	—4	+0·9
N. W. F. P. (Upper)	0·47	0·31	+0·16	+52	—5·5	—2·6	—1·0	+2	+1·2
N. W. F. P. (Lower)	1·03	0·81	+0·22	+27	—4·1	—3·7	—3·9	—4	+1·3
Baluchistan (North)	0·31	0·28	+0·03	+11	—5·7	—2·7	+0·3	+6	+0·4
Baluchistan (South)	0·00	0·14	—0·14	—100	—0·9	+1·1	+0·9	—8	—1·4
Sind (Upper)	0·71	0·20	+0·51	+255	—4·5	—2·4	—2·6	—1	+0·5
Sind (Lower)	0·00	0·59	—0·59	—100	+1·1	+1·3	—1·2	—6	—1·7

(*) Data incomplete.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of cistern above mean sea level in feet.	Pressure at Stations level in millibars.			Pressure at M.S.L.		Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressur Millibars.		
		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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST BENGAL (North)																					
Bogra	63	999·1	—0·3	996·4	1001·3	998·6	90·5	+0·7	101	18	77·6	+0·4	73	13,23	82·4	84·8	79·5	81·0	32·5	+0·3	34·3
Dinajpur ...	123	996·9	—0·2	994·3	1001·1	998·5	87·1	—2·4	96	17	76·9	—0·4	71	25	81·4	84·7	78·9	80·0	32·2	+0·8	33·5
EAST BENGAL (East)																					
Cox's Bazar ...	38	1002·6	+0·7	1000·1	1003·8	1001·4	86·9	+0·6	91	20	77·2	+0·8	74	7	82·8	82·0	79·4	78·9	33·3	+1·1	32·5
Chittagong ...	87	1000·3	—1·4	997·7	1003·3	1000·6	86·8	—0·1	91	20	77·3	+0·5	71	23	82·2	82·2	78·3	78·6	30·9	—0·6	31·7
Comilla	29	1001·3	—0·3	999·0	1002·3	1000·0	87·4	—0·9	92	5,20,22	79·4	+2·6	76	10,12,30	86·8	84·9	80·2	80·9	32·6	+0·2	34·3
Narayanganj ...	26	1000·9	—0·2	997·9	1001·8	998·8	90·0	+0·8	94	21	78·8	+0·7	73	14	85·8	84·7	81·0	80·0	33·9	+0·8	32·7
Brahmanbaria ...	32	1001·3		998·3	1002·4	999·4	87·8	—2·4	92	4 days	77·2	+3·1	72	15,16	82·4	83·7	79·5	80·2	32·5	+1·9	34·0
Srimangal ...	69	1000·0	—0·3	997·5	1002·4	999·9	88·8	—1·1	94	21	70·2	+0·7	72	23	79·7	81·7	77·9	78·9	31·9	+0·6	32·5
Mymensingh ...	62	999·9	—0·4	997·4	1002·3	997·6	86·6	—1·2	92	18,19	76·4	—0·5	73	23	80·9	83·4	78·4	79·4	32·2	+0·4	32·0
EAST BENGAL (Deltaic)																					
Faridpur ...	46	999·7	—0·3	996·8	1001·3	998·4	86·5	—2·7	94	17	71·9	+0·5	70	14	84·0	84·0	81·1	80·7	34·8	+0·9	34·0
Barisal	11	1001·7	+0·4	999·1	1002·1	999·5	90·0	+1·2	94	1,8	75·1	—3·1	74	5 days	85·7	84·7	81·0	79·8	34·7	+1·0	32·7
Khulna	16	1001·1	+0·5	998·3	1001·6	998·8	89·7	—0·9	95	5 days	78·3	—0·6	71	24	85·0	84·6	81·0	80·3	34·3	+0·8	33·5
Jessore	26	1000·3	0·0	997·6	1001·2	998·5	91·0	+0·3	97	7	77·7	—0·2	72	1,24	85·2	84·6	81·4	80·6	34·3	+0·5	34·3
Satkhira ...	16	1000·4	0·0	997·7	1000·9	998·2	92·0	+0·2	99	14	76·9	—1·9	68	2	84·5	85·2	81·5	80·3	30·0	—0·5	32·7
KASHMIR																					
Srinagar (x) ...	5205																				
Gulmarg (x) ...	8709																				
Dras (x) ...	10059																				
Leh (x)	11529																				
Skardu (x) ...	7505																				
Gilgit (x) ...	4890																				
Miagar	10190	696·8	...	694·7	700·4	698·2	...	...	...	...	36·1	...	25	1	50·4	61·7	42·0	45·7	6·5	...	5·5

(x) Data

Relative humidity %			Cloud Amount (oktas) (Eighths of Sky).			PRECIPITATION.						Wind velocity in 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.	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	
23	24	25	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
						Inches	Inches	Inches																								
																																EAST BENGAL (North).
85	+3	84	6·7	+0·8	6·3	21·48	+8·44	3·84	5	17	+2·5	2·9	+0·8	0	2	8	10	7	1	1	0	1	0	0	9	12	3	1	0	0	5	Bogra
89	+3	81	6·4	+0·4	5·8	23·05	+9·41	3·98	21	15	+0·9	3·2	+10·6	0	6	7	4	0	0	0	1	12	1	6	5	3	0	0	0	0	15	Dinajpur
																																EAST BENGAL (East).
90	+5	87	6·5	+0·4	6·1	39·42	+8·28	7·18	5	21	+1·9	3·7	—0·2	0	0	0	0	4	0	0	0	20	0	0	0	8	7	1	0	0	14	Cox's Bazar
84	+1	85	6·6	+0·6	6·6	29·84	+8·85	6·15	11	18	+1·3	5·5	+0·8	0	0	1	21	7	0	0	0	1	0	0	0	12	14	2	0	0	2	Chittagong
86	+4	84	6·8	+1·4	6·9	36·59	+18·31	8·77	23	16	—1·1	8·2	+3·1	1	0	1	5	21	1	0	0	1	1	0	0	4	22	3	0	0	0	Comilla
80	—5	81	5·2	—1·3	3·9	7·73	—4·66	2·95	14	10	—4·5	3·5	—0·8	0	0	2	3	23	2	0	0	0	0	0	1	1	25	2	0	0	1	Narayanganj
88	+9	86	6·6	+0·1	5·5	21·91	+7·36	6·12	15	20	+4·0	5·1	...	0	0	0	4	24	0	0	0	2	0	0	0	1	23	0	1	0	5	Brahmanbaria
92	+6	88	7·1	+1·8	6·9	25·06	+6·20	6·01	15	17	—3·1	2·3	—0·9	0	2	5	3	16	0	0	0	4	0	2	5	2	12	0	2	0	7	Srimangal
88	+2	84	6·7	0·0	6·7	29·49	+11·89	7·61	23	16	—1·8	2·0	—0·2	0	0	0	8	0	0	0	0	22	0	0	0	6	1	0	0	0	23	Mymensingh
																																EAST BENGAL (Deltaic).
85	+1	86	7·1	+1·4	7·0	18·94	+6·15	5·33	14	15	—0·2	6·3	—0·2	0	1	0	11	15	3	0	0	0	1	0	0	13	14	1	0	0	1	Faridpur
81	—4	80	6·7	+0·7	7·1	21·15	+5·10	3·33	10	14	—2·7	4·8	+1·8	0	1	0	19	2	5	0	0	3	1	0	0	11	3	8	0	0	7	Barisal
84	+4	83	5·8	—0·8	5·0	12·69	+0·23	4·10	24	15	+0·3	4·2	+0·3	0	0	1	8	12	7	0	0	2	0	2	1	10	13	3	1	0	0	Khulna
85	+2	85	5·3	—0·5	6·3	9·75	—2·47	2·63	24	16	+2·0	5·3	+2·6	0	0	1	6	18	3	0	0	2	0	0	0	9	18	3	0	0	0	Jessore
87	+5	82	6·1	+0·8	6·1	15·04	+2·84	4·22	24	15	+1·3	3·7	+0·8	0	1	1	12	6	8	0	0	2	0	0	1	9	12	3	0	2	3	Satkhira
																																KASHMIR.
																																Srinagar (x)
																																Gulmarg (x)
																																Dras (x)
																																Leh (x)
																																Skardu (x)
																																Gilgit (x)
52	...	32	6·6	...	7·3	0·52	...	0·14	23,28	4	...	5·4	...	1	7	5	2	0	2	9	4	0	0	3	7	9	1	3	6	1	0	Misgar

not available.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of bar cistern above mean sea level in feet.	Pressure at Stations 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.		
		Mean 0030 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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	12	22
NORTH PUNJAB																					
Lahore	702	975·0	+0·5	971·9	998·5	997·7	104·2	—1·7	112	1	78·9	—0·1	67	10	88·2	102·8	73·9	76·8	19·7	—2·2	22·1
Sialkot	830	970·5	0·0	967·5	997·8	994·4	103·6	—1·4	113	23	79·5	—0·8	69	6	87·9	101·9	71·2	75·4	18·5	—3·1	18·0
Jhelum	765	973·1	...	969·8	998·5	994·4	102·6	—	111	23	75·6	...	65	3	85·6	100·2	71·5	75·4	20·0	...	18·8
Rawalpindi ...	1674	943·4	+0·2	940·4	998·6	995·5	101·4	—2·1	111	23	73·1	—2·8	63	8	86·4	97·5	69·0	75·2	16·8	—1·4	20·7
Khushab ...	616	977·5	+0·2	975·7	998·1	995·2	104·7	—1·9	113	22,23	76·7	—5·6	66	9	88·3	102·7	72·9	78·7	20·8	0·0	21·6
Lyallpur	605	977·7	+0·9	974·7	998·1	994·3	102·6	—3·4	111	22,23	79·0	—2·7	67	9	86·6	100·2	71·6	73·7	19·7	—1·7	16·4
SOUTH PUNJAB.																					
Montgomery ...	558	979·8	+1·0	976·8	998·4	995·0	104·2	—3·6	111	22	79·1	—4·2	68	9	87·4	100·5	72·3	74·0	20·2	—6·6	16·7
Multan	413	983·9	+0·7	981·3	997·6	994·7	105·7	—0·9	112	22	81·8	—3·0	72	2,9	86·6	103·9	74·1	79·2	23·1	—3·8	22·8
Fort Abbas ...	475	982·9	...	978·9	996·6	994·8	107·4	...	111	6 days	83·7	—1·4	70	2	90·8	103·4	73·4	74·2	20·1	—6·9	15·9
Bahawalpur ...	384	985·5	+0·9	982·1	998·3	994·6	104·7	—3·7	109	6,23	83·7	+0·2	68	9	87·5	102·7	75·8	79·8	25·1	—2·9	24·2
Khanpur ...	297	988·6	+0·7	985·2	999·2	994·9	107·4	—0·4	115	2	81·9	—1·1	70	10	88·5	106·2	73·8	74·3	22·6	—3·8	14·1
N.W.F.P. (Upper)																					
Chakdara ...	2197	925·6	...	922·4	999·3	993·7	95·9	...	105	23	70·4	—	58	7,8	78·9	93·4	63·4	69·8	13·7	...	15·4
Peshawar ...	1175	960·3	+0·9	956·9	999·4	995·1	99·5	—5·5	109	24	74·6	—2·6	56	8	86·7	96·9	68·7	69·9	15·9	—1·0	12·7
Landikotal (*) ...	3503																				
N.W.F.P. (Lower)																					
Bannu	1264	956·2	...	953·2	998·2	994·4	101·6	—4·5	111	23	76·1	—3·6	65	7	83·3	98·1	67·9	70·1	16·4	—2·7	12·5
Miranshah ...	3026	900·0	...	898·1	889·8	888·3	94·5	—4·4	104	23	72·1	—5·0	63	7,9	75·9	90·2	62·2	65·6	13·9	—2·3	11·6
D. I. Khan ...	570	980·5	+2·4	976·2	999·7	994·8	104·4	—3·4	113	23	79·0	—2·5	65	9	86·0	102·7	70·7	74·8	18·7	—6·8	16·5
BALUCHISTAN (North)																					
Fortsandeman ...	4614	852·8	+0·5	851·1	891·3	888·0	93·7	—5·5	101	1	69·5	—3·4	59	8	72·7	88·7	62·3	73·4	14·7	+1·9	21·4
Hindbagh ...	5950	815·0		812·7	792·7	790·4	88·3		97	25	59·0		52	2,9	74·6	84·5	55·4	59·0	8·3		8·9
Loralai	4699	849·6		847·6	890·4	887·2	91·9		100	24	63·1		50	8	73·0	87·4	59·5	63·1	11·9		9·7
Harnai																					
Sibi	441	984·6	+2·4	980·6	997·9	993·5	109·4	—3·3	118	1	87·2	—0·3	76	8	91·9	108·4	75·3	78·8	22·7	+1·7	20·4
Quetta	5490	826·3	—1·5	823·7	791·6	790·2	87·4		95	4 days	58·1		47	8	70·3	85·2	64·5	76·7	18·2	+2·8	28·1
Quetta (Samungali)	5253	835·8		833·3	793·8	792·8	89·0		97	25,26	58·0		41	9	70·9	86·8	58·6	64·6	12·3		13·1
Chaman	4311	863·2	+1·6	860·4	892·1	888·1	93·7	—5·1	101	5,25,26	70·0	—2·2	52	7	79·5	91·9	67·2	75·8	17·5	+6·7	24·1

(*) Data rejected.

Relative humidity %			Cloud Amount (oktas) (Eighths of Sky).			PRECIPITATION.						Wind velocity in 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.	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	
23	24	25	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
						Inches	Inches	Inches																								
																																NORTH PUNJAB.
50	—3	29	3·0	+1·4	1·3	0·66	—0·98	0·27	27	3	+0·2	3·0	+0·8	2	2	1	0	2	0	3	3	17	0	3	1	2	2	2	14	3	3	Lahore
44	—4	27	3·7	+2·3	3·1	1·57	—0·82	0·75	27	3	—0·5	2·0	—0·1	6	6	2	1	2	1	2	3	7	0	2	1	1	1	9	8	4	4	Sialkot
48	—	30	2·4	...	1·9	1·70	...	0·66	27	4	...	2·5	...	1	1	2	3	2	1	1	4	15	0	1	3	1	7	8	5	3	2	Jhelum
40	+3	38	3·2	+1·3	3·6	0·57	—1·74	0·38	6	2	—1·3	3·0	+0·9	1	3	2	0	0	1	1	0	22	0	31	0	1	1	1	9	1	14	Rawalpindi
47	+4	33	1·6	+0·3	2·0	0·82	—0·59	0·82	7	1	—1·3	5·6	+0·6	1	6	4	1	1	3	2	1	11	1	3	3	7	8	5	1	0	2	Khushab
46	0	26	1·8	0·0	2·0	1·36	+0·14	0·50	24	3	+0·9	2·0	—0·8	2	2	3	1	4	4	3	1	10	1	2	3	2	4	7	1	0	10	Lyallpur
																																SOUTH PUNJAB.
47	—10	27	3·4	+2·4	2·7	0·82	—0·16	0·80	2	1	—0·6	1·9	—2·9	0	1	1	7	3	4	1	2	11	0	1	1	2	1	8	5	4	8	Montgomery
54	—2	32	1·0	+0·2	1·0	0·48	—0·07	0·48	19	1	0·0	2·4	+0·1	2	3	0	1	2	10	0	2	10	1	0	1	2	0	9	1	3	13	Multan
41	...	22	0·6	—0·5	1·2	0·15	...	0·15	28	1	...	6·7	—3·5	2	0	5	0	3	11	8	1	0	1	1	1	0	8	8	6	3	1	Fort Abbas
57	+1	36	1·0	0·0	0·6	0·50	+0·22	0·50	19	1	+0·4	4·2	—0·3	1	3	0	1	7	11	0	0	7	1	2	0	0	2	11	2	0	12	Bahawalpur
48	—9	19	1·2	+0·2	1·3	0·00	—0·26	0·00	...	0	—0·6	...	...	0	2	1	0	7	13	4	0	3	2	2	1	0	3	10	9	1	2	Khanpur
																																N.W.F.P. (Upper).
40	...	30	2·6	...	2·7	1·53	...	0·87	7	2	...	5·0	...	0	0	0	0	0	4	4	18	4	1	5	6	8	1	3	0	2	4	Chakdara
38	+2	23	2·9	+1·2	4·0	0·47	+0·16	0·35	7	1	+0·1	3·9	+1·7	4	2	1	3	0	1	1	0	18	3	8	3	2	4	4	3	1	2	Peshawar
																																Landikotal *
																																N.W.F.P. (Lower)
41	—1	25	2·0	+0·6	3·7	1·08	+0·17	0·73	27	3	+1·5	3·6	...	4	0	2	2	0	0	3	6	15	4	4	6	7	2	2	0	2	3	Bannu
45	—1	26	3·0	+2·0	4·0	1·88	+0·97	0·87	25	3	+1·4	5·3	+0·1	0	6	1	0	0	1	1	4	17	1	1	9	9	2	4	1	3	0	Miranshah
44	—9	26	2·5	+1·4	0·6	0·13	—0·48	0·13	6	1	—0·3	2·7	+0·9	2	12	2	0	2	2	0	4	6	1	4	4	2	2	4	0	1	12	D. I. Khan
																																BALUCHISTAN (North)
59	+5	54	(a) 2·1	+1·4	3·6	0·23	—0·41	0·21	28	1	—0·3	3·2	+0·4	0	0	0	1	1	0	0	0	28	1	1	4	4	0	2	3	1	14	Fort Sandeman
29	...	21	1·4	...	3·4	0·17		0·12	28	1		4·8		0	0	0	2	0	8	4	1	15	0	1	2	0	2	9	14	2	0	Hindubagh
47		26	1·7		3·9	1·50	+1·15	1·03	28	3		5·2		0	0	0	1	1	2	4	0	22	0	0	3	3	6	6	5	3	4	Loralai
						0·70	—0·05	0·48	27	2	+0·5	...	...																			Harnai
44	+4	24	(a) 1·3	+0·8	(a) 2·3	0·04	—0·26	0·04	9	0	—0·5	6·3	+1·4	0	2	4	4	0	5	6	5	4	1	1	6	4	0	8	7	2	1	Sibi
74	+20	69	0·6	+0·1	2·0	0·00		0·00		0		5·0	+2·8	1	4	0	5	10	3	2	2	3	1	2	0	3	5	4	12	3	0	Quetta
50		32	1·1		2·2	0·00		0·00		0		8·4		1	0	5	7	2	1	2	3	9	1	1	0	1	2	5	14	6	0	Quetta (Samangoli)
57	+29	47	1·1	+0·7	1·0	0·00	—0·02	0·00		0	0			0	0	0	1	5	11	3	1	9	0	1	0	0	3	5	10	10	1	Chaman

(a) Mean of 30 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of bar cistern above mean sea level in feet.	Pressure at Stations 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.		
		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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
BALUCHISTAN (North)—Contd.																					
Nushki	3412	839·6		829·9	895·3	894·5	100·0		109	4	75·7		57	8	82·6	97·5	66·2	74·0	15·1		19·0
Kalat	6616	795·8	0·0	794·0	794·0	791·6	83·5	—6·8	92	24,25	53·5	—4·2	38	8	65·7	77·7	54·1	60·3	10·1	—0·6	11·4
Dalbandin ...	2758	909·3	+0·9	906·8	891·7	889·7	101·0	—6·3	109	5	69·9	—3·1	57	8	80·1	99·4	58·9	70·0	8·4	—2·5	12·8
Nokkundi ...	2229	927·4		924·4	1000·2	995·4	102·3	—7·0	112	3,4	78·9	—2·9	62	8	84·5	99·4	63·1	72·6	11·3	—7·9	16·2
BALUCHISTAN (South)																					
Lasbela ...	292	991·4	+0·9	987·7	1001·3	997·3	103·1	—2·5	110	7	80·1	—0·3	66	9	86·4	100·5	78·1	88·9	28·8	—1·9	27·2
Ormara	15	1000·3		997·1	1000·8	997·6	95·2	+2·5	109	7	82·6	+0·6	79	8	86·6	92·0	78·1	80·4	28·9	—4·2	30·3
Pasni	10	1000·7	+0·9	998·0	1001·0	998·3	94·8	+1·0	108	3	80·1	+1·6	70	9	85·2	91·6	80·7	82·0	33·5	+0·5	33·0
Turbat	510	986·5		983·0	1003·1	998·7	110·3		118	2,3	82·1		73	9,10	90·4	104·7	77·7	80·7	26·5		25·2
Panjgur	3177	897·7	+1·1	896·3	892·3	890·7	96·9	—6·3	105	1					76·8	95·8	72·1	88·6	25·2	+6·4	43·5
SIND (Upper)																					
Reti (R) ...	280																				
Jacobabad ...	183	992·2	+1·2	988·3	998·3	994·5	108·5	—5·4	116	2,6	82·5	—2·4	73	9	88·3	107·5	78·7	83·1	29·0	—2·3	26·7
Sukkur	221	990·6	+0·5	987·0	998·2	994·3	105·4	—3·7	112	2					83·9	104·5	74·7	77·8	25·6	—2·9	20·6
Pad Idan... ...	153	993·4		989·9	998·6	994·6	108·8		114	2,6	80·4		66	9	86·9	107·4	75·9	77·9	25·7		19·3
SIND (Lower)																					
Umarkot ...	55	998·3		994·6	1000·2	996·4	103·5		109	16	81·0		74	10	88·6	102·8	81·0	83·3	32·7		30·3
Hyderabad ...	96	996·2	+0·7	993·4	999·5	996·4	105·0	+0·5	111	11	81·8	—0·2	74	10	87·9	99·7	78·9	78·7	29·8	+1·7	24·1
Karachi (Airport)	73	998·3		995·8	1000·8	998·2	96·2		107	10	82·7		73	9	86·4	91·5	78·6	80·2	29·6		29·7
Karachi (Manora)	13	1000·3	+0·6	997·7	1000·7	998·1	92·6	+2·2	103	8	83·9	+1·6	78	9	86·1	89·5	78·8	81·5	29·9	—3·6	33·1
Badin	31	1001·8	+3·0	998·8	1002·9	1000·2	101·5	+0·5	109	10	84·5	+2·5	73	9	86·4	98·5	78·4	80·3	29·4	—1·6	27·2
HILL STATIONS (excluding Kashmir and Baluchistan).																					
Murree	7113	780·8	—0·7	780·1	792·3	791·4	75·1	—5·6	82	22	58·2	—2·3	49	3	67·3	71·5	59·6	64·3	13·7	+1·5	17·3
Cherat	4272	863·1	+0·4	861·8	891·2	889·3	89·4	—3·8	99	23	69·8	—3·4	49	7	74·8	85·4	58·3	59·3	10·0	—3·9	6·7
Drosh	4806	849·5	...	846·7	894·1	890·5	94·2	+2·3	94	4 days	62·5	—6·0	37	8	67·9	77·5	55·7	57·1	10·2	—3·2	7·7
Parachinar ...	5673	821·1	—0·4	820·1	791·8	791·3	83·0	—4·7	93		61·0	—2·7	45	8	70·7	77·3	55·9	58·5	9·9	—2·1	9·9
Wana	4456	*		*	*	*	94·0	—0·6	100	25	62·3	—6·0	51	9	76·6	81·6	62·2	62·8	13·1	—0·1	11·9
AFGHANISTAN.																					
Jalalabad ...	1950	927·9	...	925·6	991·7	986·6	100·5	...	110	23,24	73·0	—	57	8	80·2	98·4	72·8	84·8	24·5	...	35·3
Kabul	5955	816·3	...	814·5	794·8	793·6	82·4	—4·5	90	25,26	52·4	—3·6	35	8	62·2	77·6	50·8	56·1	8·4	—0·9	7·4
Kandahar ...	3462	890·8	...	888·3	894·3	891·5	94·6	...	101	26	62·2	—	52	9	75·3	91·6	61·8	71·7	13·4	—	18·5

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

Relative humidity %			Cloud Amount (oktas) Eighths of Sky.			PRECIPITATION						Wind velocity in 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.	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	
23	24	25	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
						Inches	Inches	Inches																								BALUCHISTAN (North)—Contd.
40		30	0·4		1·2	0·00		0·00		0		9·5		2	2	10	5	4	2	4	0	1	2	1	0	0	1	2	19	5	0	Nushki
45	+5	36	1·1	+0·6	2·5	0·00	—0·19	0·00		0	—0·4	5·8	+1·4	0	1	0	18	1	3	0	4	3	0	0	0	0	0	5	0	24	1	Kalat
23	—5	20	0·6	0·0	1·7	0·00	—0·01	0·00		0	0	5·8	+1·0	1	0	0	0	0	1	9	3	16	3	0	1	0	1	4	11	7	3	Dalbandin
25	—15	18	0·1	—0·5	0·2	0·00	0·00	0·00		0	0	14·1	+3·3	3	0	1	0	0	0	0	25	1	3	0	0	1	0	0	0	26	0	Nokkundi
																																BALUCHISTAN (South).
69	—6	48	4·0	+0·9	4·3	4·09	+3·67	3·00	29	2	+0·8	4·00	+0·7	1	2	2	9	9	6	0	2	0	0	2	2	9	9	6	0	2	0	Lasbela
67	—17	61	2·7	—1·0	1·8	0·00	—0·03	0·00		0	—0·2	10·8	+2·0	2	1	1	0	0	11	12	3	0	1	0	0	2	6	12	8	1	0	Ormara
82	—1	78	0·1	—2·9	0·2	0·00	—0·26	0·00		0	—0·2	5·1	—1·5	6	0	6	0	0	0	9	0	9	3	0	1	0	5	0	21	0	0	Pasni
54		35	0·2	...	0·2	0·14	...	0·14	29	1		7·1	...	2	3	4	1	2	4	9	4	1	4	5	1	1	3	9	5	2	0	Turbat
46	—5	76	0·2	—0·4	0·8	0·00	—0·12	0·00	...	0	—0·4	6·6	+1·8	0	2	0	0	0	5	0	13	10	1	0	0	1	0	5	0	23	0	Panjgur
																																SIND (Upper). Rest (R)
65	+2	35	1·1	+0·5	0·6	0·52	+0·26	0·52	19	1	+0·7	8·0	+1·8	1	1	4	11	6	2	2	2	1	0	0	3	9	8	5	1	3	1	Jacobabad
64	—3	27	0·9	+0·4	0·6	0·91	+0·77	0·80	28	2	+1·5	4·3	+0·1	1	1	2	6	8	8	1	1	2	1	1	1	0	9	11	2	1	4	Sukkur
60		24	0·7		0·5	0·20		0·12	27	2		9·1		2	1	1	8	15	0	2	0	1	3	3	2	7	7	2	3	2	1	Pad Idan
																																SIND (Lower)
72		42	0·5		0·0	0·00		0·00		0		11·7		2	0	0	0	4	21	3	0	0	0	0	0	0	4	19	4	1	0	Umarkot
64	—1	37	0·2	—1·8	0·5	0·00	—0·39	0·00		0	—0·6	(c) 9·6	—0·2	0	0	0	1	0	20	1	0	6	0	1	1	2	1	22	3	0	0	Hyderabad
71		62	3·6		2·9	0·00		0·00		0		12·7		0	0	1	0	1	11	13	2	2	0	0	0	0	3	20	7	0	0	Karachi (Airport)
72	—11	70	(c) 2·8	—1·7	2·8	0·00	—0·72	0·00		0	—0·6	13·2	+2·1	1	0	1	0	0	11	14	1	2	0	0	0	0	0	14	16	0	0	Karachi (Manora)
67	—6	45	1·4	—1·7	0·6	0·00	—0·65	0·00		0	—0·8	7·0		0	0	0	0	1	20	3	0	6	0	0	0	0	1	22	2	0	5	Badin
																																HILL STATIONS (excluding Kashmir and Baluchistan).
66	+14	71	3·5	+1·3	4·7	4·99	+1·01	0·38	20	10	+4·2	5·2	+7·2	0	3	5	4	0	0	4	3	11	0	3	5	2	0	1	5	7	7	Murree.
36	—9	23	2·1	+0·7	2·8	1·15	+0·01	0·75	7	2	0·0	8·7	—3·0	24	0	0	0	5	0	1	0	0	11	0	2	0	15	0	2	0	0	Chitral
47	—3	29	2·5	+1·5	5·3	3·56	+2·91	1·52	7	4	+2·0	4·4	+0·7	0	8	4	1	0	1	0	0	16	0	12	2	0	0	14	0	0	2	Drosh
39	—4	33	2·5	+1·1	4·6	0·83	—1·17	0·35	7	4	—0·5	3·6	+1·2	0	5	4	5	4	3	3	4	2	0	4	3	11	3	3	3	2	1	Parachinar
43	0	32	1·5	+0·5	1·8	1·25	+0·82	0·80	26	2	+0·5	3·8	—	0	0	0	1	0	0	0	0	29	8	1	1	0	2	1	6	7	4	Wana
																																AFGHANISTAN
70	...	58	2·7	...	4·1	0·00	...	0·00	...	0	...	2·8	...	2	0	1	3	1	1	9	2	11	0	9	3	5	3	3	1	3	3	Jalalabad
46	+8	25	0·8	+0·2	3·8	0·02	—0·15	0·02	6	0	—0·5	3·0	+0·8	0	1	0	1	2	5	10	9	2	10	8	2	3	2	1	1	2	1	Kabul
44	...	36	1·1	...	1·2	0·00	—	0·00	...	0	...	1·9	...	0	1	0	3	0	1	0	0	25	0	1	0	0	0	9	0	4	16	Kandahar

(c) Mean of 26 days.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0400 HRS.

STATIONS.	Height of bar cistern above mean sea level in feet.	Pressure at Stations 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.		
		Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Mean 1130 hrs. G.M.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0230 hrs. G.M.T.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 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
IRAN																					
Jask	13	1000·3	...	998·3	1000·7	998·7	97·4	+1·0	104	10,11,18	83·9	+0·8	80	1,8,9	87·9	95·5	78·4	83·5	29·0	...	33·7
ARABIA																					
Muscat	20	999·8	...	998·4	1000·4	998·9	97·5	—0·6	105	4,19	87·7	—0·4	84	14	90·1	95·7	80·6	78·7	31·2	...	25·5
Kuwait (*) ...	16	1000·2	...	997·1	1002·9	1000·6	103·3	...	112	28,29	—	—	—	—	87·7	98·4	69·9	75·8	16·9	...	19·9

(*) Observations recorded at 0500 hrs. G.M.T.

Relative humidity %			Cloud Amount (Tenths of sky)			PRECIPITATION						Wind velocity miles per hour.		Wind direction—Number of winds from :—																		STATIONS.
														0230 hrs. G.M.T.								1130 hrs. G.M.T.										
Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 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	
23	24	25	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
						Inches	Inches	Inches																								
																																IRAN.
67	—	59	1·1	+0·3	1·0	0·00	—0·04	0·00	—	0	—0·1	7·9	+0·3	1	0	16	1	0	0	2	5	5	0	0	1	4	5	10	8	2	0	Jask
																																ARABIA.
68	—	65	0·8	—0·6	0·0	0·00	—0·08	0·00	—	0	0·1	3·7	+0·3	1	6	0	0	0	2	0	6	15	0	3	0	0	0	0	1	3	23	Muscat
39	—	66	0·0	—	0·0	0·00	—	0·00	—	0	—	7·7	—	17	13	0	0	0	0	0	0	0	18	9	0	0	0	0	0	0	3	Kuwait (*)

instead of 0300 hrs. G.M.T.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS—JUNE, 1949.

STATION.	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature °F 0300 hrs. G.M.T.	Mean wet bulb temperature °F 0300 hrs. G.M.T.	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 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
																Inches	Inches	Inches					
EAST BENGAL (North).																							
Pabna	91·6	0·0	98	1	...	...	...	...	84·7	81·6	36·0	+2·7	87	+3	...	10·43	−0·84	2·25	21	14	−0·5	...	...
KASHMIR.																							
Jammu																							
Kargil																							
IRAN.																							
Zahidan																							

TABLE V—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 5TH CLASS STATIONS—JUNE, 1949.

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
		Inches	Inches	Inches			
EAST BENGAL (North).							
	Bankura						
	Rajshahi (R)						
	Sirajganj	25·85	+13·53	4·40	5	17	+2·7
	Rangpur	45·73	+27·95	9·00	29	22	+6·3
KASHMIR.							
	Sonemarg						
	Gurez						
BALUCHISTAN (North).							
	Harnai	0·70	—0·05	0·48	27	2	+0·5

(R) Register not received.

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PAKISTAN WEATHER REVIEW, 1949

Monthly Weather Report

July

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Chief Features (1) Shallow depression in the eastern sector of North Arabian Sea causing pronounced wet weather in south-eastern districts of West Pakistan between the 14th and the 18th.

(2) Marked monsoon activity in East Pakistan between the 18th and the 24th.

West Pakistan.—Two low pressure waves moved from the east in close succession during the second week and merged with the seasonal low which became accentuated. This caused the incursion of monsoon into the region on the 8th and was responsible for local to fairly widespread rainfall in the northern parts of West Punjab on most of the days during the week. Scattered to local showers were also reported from the rest of West Pakistan on a few days.

Another easterly low pressure wave moved across Lower Sind on the 15th emerged in the Eastern sector of the North Arabian Sea and finally developed into a shallow depression. The depression weakened by the next day, moved north-westwards and merged with seasonal low by the 18th. Under its influence local to fairly widespread rainfell in Sind on most of the days between the 15th and the 20th and in the northern parts of West Punjab on some of the days. Scattered rain was also reported from the West Punjab and in the hills of the North West Frontier Province and North Baluchistan on a number of days.

Thereafter, a western disturbance moved across the north of the region and accentuated the seasonal low. This was followed by a low which moved north-westwards across northern parts of Rajasthan. They caused local to fairly widespread rain in northern districts of West Punjab practically throughout the rest of the month, in Sind between the 28th and the 30th and scattered elsewhere over the region outside South Baluchistan between the 21st and the 31st.

Some of the more important amounts of rainfall were: Karachi Airport 3" and Karachi (Manora) 2" on the 16th, Umerkot 3" on the 26th.

The total rainfall during the month was in large excess in North Baluchistan, in moderate excess in North West Punjab, in slight excess in lower Sind, normal in lower North West Frontier Province, in slight deffect in South Baluchistan, in moderate defect in South West Punjab and in large defect in Upper North West Frontier Province and Upper Sind. Averaged over the plains of West Pakistan it was in slight excess.

Mean maximum temperatures were below normal in North West Punjab and Upper North West Frontier Province and normal elsewhere while the mean minimum temperatures were normal over the whole region. Mean relative humidity was in excess in North West Punjab, North West Frontier Province and South Baluchistan and normal elsewhere. Skies were more clouded than usual in North West Punjab, the North West Frontier Province, North Baluchistan and Upper Sind and normally clouded over the rest of the region.

East Pakistan—Monsoon was active and caused fairly widespread rain throughout the region on the 1st. Thereafter, it weakened and caused only scattered to local rain till the 6th.

It again became fairly active on the 7th and continued to be so till the 23rd. During this period local to fairly widespread rainfall occurred in almost all the divisions of East Pakistan with locally heavy falls during the last six days. Thereafter the monsoon activity slightly declined and only scattered rain fell over the region between the 24th and the 28th.

Later on, monsoon activity increased mainly in the eastern Sub-division and caused local to fairly widespread rainfall in the eastern sub-division between the 29th and the 31st, in the northern sub-division on the 30th and scattered in deltaic and northern sub-divisions respectively on the 29th and 31st.

Some of the noteworthy amounts of rainfall were : Cox's Bazar 4" on the 1st; Dinajpur 3" on the 18th, Chittagong 5" and Barisal 4" on the 19th; Cox's Bazer 8" and Chittagong 6" on the 21st; Sirajganj 8" and Barisal 3" on the 22nd and Sirajganj 3" on the 24th.

The total rainfall during the month was in slight excess in the deltaic sub-division and normal elsewhere over the region. Mean maximum and minimum temperatures, mean relative humidity and cloudiness were normal over the whole region.

FEB 18 1952 WEATHER BUREAU

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—JULY, 1949.

Sub-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		Degree	Degree	mb.	%	
1. East Bengal	16·53	15·83	+0·70	4	—0·4	+0·1	0·2	+2	0·3
Mean of East Pakistan	16·53	15·83	+0·70	+4	—0·4	+0·1	+0·2	+2	+0·3
2. West Punjab	5·69	4·19	+1·50	+36	+2·5	+1·2	+1·0	+7	+1·1
3. N.W.F.P.	1·49	1·81	—0·32	—18	+2·0	+0·6	1·2	+7	+1·0
4. Baluchistan	1·50	1·13	+0·37	+33	+0·7	+1·1	+2·9	+5	+0·3
5. Sind	2·44	2·51	—0·07	—3	+0·8	+1·5	+1·7	+2	+0·6
Mean of West Pakistan excluding Baluchistan	3·88	3·22	+0·66	+21	+1·3	+0·2	+1·3	+4	+0·9
SUB-DIVISION									
1. East Bengal (North)	12·39	13·05	—0·66	—5	+0·4	0·0	+0·4	+2	+0·5
2. East Bengal (East)	19·73	19·15	+0·58	+3	—0·4	+0·3	—0·2	+2	+0·2
3. East Bengal (Deltaic)	16·11	13·84	+2·27	+16	—0·3	+0·8	+0·6	+2	+0·4
4. Kashmir*									
5. North West Punjab	7·24	5·73	+1·51	+26	—2·8	—1·5	+1·1	+9	+1·4
6. South West Punjab	1·81	2·43	—0·62	—26	—1·6	—0·5	+0·6	+3	+0·3
7. N.W.F.P. (Upper)	0·15	1·16	—1·01	—87	—2·8	—0·2	+2·2	+9	+1·4
8. N.W.F.P. (Lower)	1·94	2·02	—0·08	—4	—1·7	—0·7	+0·9	+6	+0·9
9. Baluchistan (North)	1·72	1·12	+0·60	+54	+0·9	+0·8	+3·0	+5	+0·2
10. Baluchistan (South)	1·01	1·13	—0·12	—11	+0·3	+1·6	+2·8	+6	+0·5
11. Sind (Upper)	0·11	1·19	—1·08	—91	—0·3	+0·9	+0·9	+1	+0·9
12. Sind (Lower)	4·06	3·38	+0·68	+20	+1·5	+1·7	+2·2	+2	+0·4

*Data incomplete.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G. M. T

STATIONS.	Height of bar. cistern above mean sea level in feet.	Pressure at Stations 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.		
		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. normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST BENGAL (North)																					
Bogra	63	999·8	+1·1	996·9	1001·9	999·0	88·8	—0·4	92	29	79·2	+0·7	77	5 days	82·2	85·2	79·9	81·2	33·3	+0·1	34·3
Dinajpur	123	997·5	+1·0	994·7	1001·5	998·7	88·6	—0·6	94	28	78·1	—0·8	74	3,20	83·3	85·2	80·1	80·4	33·6	+0·8	32·7
EAST BENGAL (East-)																					
Cox's Bazar ...	38	1003·0	+1·7	1000·6	1004·3	1001·9	85·3	0	93	14	76·2	—0·2	73	22,30	80·4	80·9	77·7	78·0	31·1	—0·8	31·4
Chittagong ...	87	1000·4	+0·9	998·0	1003·3	1001·0	85·3	—0·7	91	14	76·7	0	74	23	81·2	81·2	77·6	77·9	30·6	—0·6	30·6
Comilla	29	1001·5	+0·5	999·3	1002·5	1000·3	86·7	—1·0	92	11	77·6	+0·5	76	6 days	81·5	84·3	78·6	80·2	31·4	—0·8	33·2
Narayanganj ...	26	1001·1	+0·6	998·9	1002·0	999·7	88·6	+0·4	93	10	79·3	+0·4	72	31	83·5	84·5	79·5	79·8	32·0	—0·9	33·5
Brahmanbaria ...	32	1001·8	...	998·5	1002·9	999·6	88·2	—1·3	93	11	77·9	+2·6	76	7,22	82·4	84·7	78·9	80·6	31·7	+0·9	34·3
Srimangal	69	1000·9	+0·8	997·7	1003·3	1000·0	89·2	—1·1	93	10	76·6	+0·2	75	14,17,27	79·7	84·6	77·5	80·3	31·9	+0·1	33·5
Mymensingh ...	62	1000·9	+1·2	997·9	1003·1	1000·0	88·6	+0·7	94	15	77·1	—1·2	76	9 days	81·7	84·1	79·4	80·4	33·3	+0·8	34·0
EAST BENGAL (Deltaic)																					
Faridpur	46	1000·1	+0·8	997·2	1001·7	998·8	84·6	—3·2	89	10	78·9	+0·4	76	1,22	83·1	83·6	80·1	80·1	33·6	—0·1	34·0
Barisal	11	1001·4	+0·7	999·0	1001·8	999·4	87·5	+0·2	92	28	78·5	+0·1	76	23,27	82·6	83·8	79·4	79·5	33·6	+0·5	32·4
Khulna	16	1001·1	+1·3	998·4	1001·6	999·0	87·3	—0·6	92	11	78·8	+0·2	75	21	83·3	82·9	81·1	79·9	35·3	+2·5	33·6
Jessore	26	1000·7	+0·9	997·5	1001·6	998·4	89·1	+1·0	95	4	78·1	+0·1	74	1,23	83·5	83·3	80·7	80·4	33·6	0	33·6
Bakhira	16	999·5	0	997·9	1000·0	998·4	89·1	+0·6	93	8	74·6	—3·0	65	13,14,15	83·9	84·6	81·4	80·5	38·6	+3·9	34·5

Relative humidity %			Cloud Amount (Eighths of Sky).			Precipitation.						Wind velocity in 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.	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	
23	24	25	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).
91	+6	84	7·4	+1·1	5·8	12·05	—0·78	2·32	21	21	+4·2	2·7	+0·7	0	0	8	10	2	5	2	0	4	0	0	4	13	7	0	2	0	5	Bogra
86	0	81	6·1	—0·1	5·6	11·12	—4·35	2·80	18	19	+2·3	2·9	+0·4	0	7	6	4	0	0	0	1	13	0	4	6	11	1	0	0	0	9	Dinajpur
																																EAST BENGAL (East).
89	+1	87	6·5	0·0	6·5	34·89	—0·63	7·75	21	26	+3·0	4·3	0·0	0	0	1	10	6	2	0	0	12	0	0	1	11	12	1	0	0	6	Cox's Bazar
84	—2	86	6·9	+0·6	6·9	28·89	+5·36	5·75	21	20	+1·1	5·6	+0·8	0	0	2	14	12	1	0	0	2	0	0	0	6	17	7	0	0	1	Chittagong
88	+3	83	6·6	+0·8	6·1	30·37	+13·95	5·81	22	24	+5·2	8·4	+3·7	1	0	1	11	16	1	0	0	1	0	0	0	1	24	5	1	0	0	Comilla
84	—1	81	6·3	—0·7	4·3	11·01	—1·96	2·46	22	19	+1·3	4·8	...	0	0	1	8	18	3	0	0	1	0	0	0	6	22	2	0	0	1	Narayanganj
85	+4	84	5·8	—1·0	5·4	11·33	+0·02	1·76	31	20	+3·4	5·1	...	0	0	5	6	19	0	0	0	1	0	0	4	2	19	0	0	0	6	Brahmanbaria
91	+5	82	6·5	+1·1	6·0	11·77	—2·14	3·12	27	17	—3·8	3·3	+0·1	2	0	5	7	11	0	0	0	6	1	2	1	2	14	0	5	0	6	Srimangal
90	+3	81	7·5	+0·6	6·3	9·88	—6·14	1·20	20	21	+1·8	2·4	+0·1	0	0	2	12	0	0	0	0	17	0	0	0	12	1	0	0	0	18	Mymensingh
																																EAST BENGAL (Delta).
87	+2	85	7·0	+0·8	6·0	18·25	+5·51	6·21	22	18	+0·2	5·9	+0·6	0	1	0	12	13	1	0	0	4	0	0	0	13	13	2	0	1	2	Faridpur
87	0	82	7·0	+0·7	6·6	22·50	+6·18	3·88	19	24	+2·9	4·5	+1·5	0	0	0	20	2	3	0	0	6	0	0	0	19	2	2	0	0	8	Barisal
87	+4	84	6·2	—0·8	5·1	10·65	—3·79	1·75	11	11	+10·1	3·9	+0·2	0	0	5	8	11	4	0	0	3	0	0	1	11	9	7	0	0	3	Khulna
88	+3	80	5·6	—0·8	5·1	44·23	+2·45	2·78	20	23	+2·3	4·5	+1·7	0	2	4	10	11	2	0	0	2	0	0	3	13	12	3	0	0	0	Jessore
88	+3	86	6·9	0·0	7·0	9·43	—0·07	1·60	21	13	—3·4	3·4	+1·0	0	3	2	7	6	9	3	0	1	0	1	1	9	8	10	2	0	0	Satkhira

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS

STATION.	Pressure at station level, millibars				Pressure at M.S.L., millibars		Maximum temperature oF				Minimum temperature oF				Dry bulb temperature oF		Wet bulb temperature oF		Vapour pressure, millibars			Relative humidity %		
	Height of bar. cistern above mean sea level in feet.	Mean 3 hrs. G.M.T.	Departure from normal.	Mean 12 hrs. G.M.T.	Mean 3 hrs. G.M.T.	Mean 12 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 12 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
KASHMIR																								
Srinagar (×)	5205																							
Gulmarg (×)	8709																							
Dras (×)	10059																							
Leh (×)	11529																							
Skardu (×)	7505																							
Gilgit (×)	4890																							
Misgar	10190	696·5	...	693·7	700·0	697·1	77·7	...	84	8,29	49 3	...	40	2	62·1	76·4	47·0	52·6	6·3	...	5·7	33	...	20
NORTH PUNJAB																								
Lahore	702	974·9	+0·9	971·7	998·5	994·9	96·6	—3·0	110	1	79·8	—0·3	72	11	83·8	93·1	78·9	81·4	32·0	+2·6	32·0	81	+12	63
Sialkot	830	970·9	+0·9	967·4	998·7	994·8	94·3	—3·1	110	6	78·6	—1·0	71	8	84·0	92·0	77·2	80·3	28·8	—1·1	30·0	75	0	61
Jhelum	765	973·1	...	969·6	998·6	994·5	96·1	...	110	5	77·8	...	70	13	83·9	93·9	77·7	81·2	29·6	...	30·3	76	...	58
Rawalpindi	1674	943·1	+0·7	939·6	998·7	993·8	96·1	—1·7	112	6	76·7	—0·4	70	11,12	81·7	93·2	75·1	78·8	27·2	+0·7	24·7	77	+11	55
Khushab	616	977·3	+0·6	973·8	997·8	994·0	99·2	—3·0	113	5	78·4	—4·0	71	4 days	85·4	97·1	79·8	84·5	30·9	+1·8	34·7	79	+13	60
Lyallpur	605	977·1	+0·6	973·8	997·5	993·7	98·2	—3·3	108	6,7	80·9	—1·8	72	13,22	85·8	96·3	78·4	80·4	29·8	+1·6	28·2	72	+9	50
SOUTH PUNJAB																								
Montgomery ...	558	979·2	+1·1	975·8	997·9	994·2	99·9	—3·0	109	1	81·4	—2·3	73	13,22, 23	87·3	97·3	79·1	80·8	30·3	—1·4	28·4	69	—1	49
Multan (X)	413	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fort Abbas (X) ...	475	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bahawalpur ...	384	984·0	+0·4	981·0	997·0	993·3	103·1	—0·2	109	4 days	84·9	+1·2	79	10	88·3	100·5	82·0	84·4	34·5	+2·6	32·9	76	+8	51
Khanpur ...	297	987·3	+0·6	984·0	996·7	993·6	105·9	+0·5	111	1	84·1	+1·0	75	10	88·6	102·2	79·4	81·0	30·9	+1·5	26·5	66	0	40
N.W.F.P. (Upper)																								
Chakdara	2197	924·2	...	920·6	997·5	992·1	95·1	...	106	7	74·6	...	71	12,24, 25	80·6	93·2	73·4	78·3	25·2	...	26·7	73	...	52
Peshawar	1175	958·7	+0·4	954·7	997·7	992·8	99·7	—2·8	111	7	80·0	—0·2	72	25	85·4	97·5	76·8	79·2	27·6	+2·2	25·7	67	+9	46
Landikotal ...	3503	889·8	...	886·3	893·5	889·9	94·7	...	105	7	80·3	...	75	24	81·8	90·8	71·2	73·2	21·3	...	22·9	63	...	51
N.W.F.P. (Lower)																								
Bannu	1264	954·0	...	951·7	996·0	992·3	100·7	—2·4	113	6,7	82·1	—0·4	72	12	86·1	98·1	77·5	78·4	28·3	+1·8	24·2	67	+9	42
Miranshah	3026	898·5	...	896·3	888·5	886·5	96·1	—0·5	108	7	78·8	—0·3	70	29	81·7	92·3	72·6	74·8	24·2	+1·3	22·2	66	+7	46
D. I. Khan	570	979·5	+2·2	974·6	998·0	993·2	101·1	—2·2	112	8	81·2	—1·4	74	11,28	86·0	100·3	79·0	84·1	30·7	—0·2	32·7	71	+2	51

(×) Data not available.

Cloud Amount (Eighths of Sky.)			Precipitation, inches.						Wind velocity, knots		Wind direction—No. of winds from :—																						
											0300 hrs. G.M.T.									12·00 hrs. G.M.T.													STATION.
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.	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				
																													KASHMIR				
																													Srinagar (×)				
																													Gulmarg (×)				
																													Dras (×)				
																													Leh (×)				
																													Skardu (×)				
																													Gilgit (×)				
2·8	...	4·6	0·01	...	0·01	31	0	...	5·6	...	6	8	4	1	2	0	4	6	0	2	1	10	5	1	0	11	1	0	Misgar				
																													NORTH PUNJAB				
5·9	+2·7	3·9	4·90	—0·55	0·55	15	12	+6·1	3·8	+1·6	0	1	5	8	1	0	2	0	14	3	1	8	6	2	2	1	0	8	Lahore				
5·3	+2·1	4·2	11·29	+2·94	2·00	24	13	+4·0	3·0	+1·1	2	4	8	4	7	0	1	3	2	2	4	1	7	7	1	1	4	4	Sialkot				
4·8	...	2·8	9·72	...	1·72	13	13	...	2·3	...	1	2	4	9	0	1	0	1	13	1	0	1	8	7	7	1	0	6	Jhelum				
4·6	+1·2	3·6	13·05	+4·98	2·39	7	12	+3·2	2·2	+0·5	1	3	0	2	0	0	0	0	25	0	0	3	5	2	0	0	1	20	Rawalpindi				
3·6	+1·1	2·2	2·83	—1·07	1·70	9	6	+1·7	5·7	+0·4	3	11	9	3	0	2	0	0	3	0	12	4	10	0	4	0	0	1	Khushab				
3·3	+0·1	3·2	4·14	+1·28	1·17	31	5	+1·2	2·3	—0·5	1	3	7	7	2	5	1	0	5	0	3	5	9	3	5	1	1	4	Lyallpur				
																													SOUTH PUNJAB				
3·3	+1·4	3·5	3·59	+1·17	1·02	31	6	+2·7	3·0	—1·8	0	0	0	13	0	2	1	1	14	0	4	0	7	0	4	3	0	13	Montgomery				
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Multan (×)				
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Fort Abbas (×)				
1·5	—0·7	3·1	0·02	—2·42	0·02	25	0	—3·2	5·1	+0·6	1	1	3	1	12	8	0	0	5	0	4	5	0	5	9	0	0	8	Bahawalpur				
1·8	—0·3	1·6	0·98	—1·54	0·56	28	3	+0·1	...	...	2	3	2	1	9	12	1	0	1	1	6	2	0	7	11	2	1	1	Khanpur				
																													N.W.F.P. (Upper)				
4·2	...	2·0	3·14	...	0·95	19	8	...	4·5	...	0	3	1	3	0	6	1	14	3	0	8	6	15	0	1	0	1	0	Chakdara				
4·2	+1·4	3·4	0·15	—1·11	0·15	24	1	—1·0	3·6	+3·6	12	4	1	1	1	0	1	3	8	2	23	2	1	0	1	1	0	1	Peshawar				
3·2	...	3·2	0·58	...	0·58	28	1	...	5·2	...	6	15	1	0	0	0	0	1	8	6	16	4	3	0	0	0	0	2	Landikotal				
																													N.W.F.P. (Lower)				
2·5	+0·4	2·1	3·82	+1·61	2·40	22	4	+0·8	3·4	...	1	1	6	6	0	1	1	1	14	0	4	8	14	3	1	0	0	1	Bannu				
3·7	+1·5	3·8	1·82	+0·05	0·63	24	4	+0·7	5·7	—0·1	0	7	1	3	0	3	0	2	15	0	3	13	13	1	1	0	0	0	Miranshah				
2·7	+0·7	1·7	0·37	—1·92	0·23	28	2	+0·8	2·9	+1·1	0	16	9	3	0	1	0	0	2	2	6	12	1	4	3	1	0	2	D. I. Khan				

STATION.	Height of bar. cistern above sea level in feet.	Pressure at station level, millibars			Pressure at M. S. L., millibars		Maximum temperature oF				Minimum temperature oF				Dry bulb temperature oF		Wet bulb temperature oF		Vapour pressure, millibars		
		Mean 3 hrs. G.M.T.	Departure from normal.	Mean 12 hrs. G.M.T.	Mean 3 hrs. G.M.T.	Mean 12 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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
BALUCHISTAN (North)																					
Fort Sandeman	4614	851·9	+0·8	849·3	889·6	886·2	99·1	—0·2	105	4 days	75·1	0·0	68	10	79·1	94·1	71·2	77·8	22·7	+3·4	25·5
Hindubagh	5950	814·0	...	810·6	791·9	788·2	97·6	...	101	5,8,19	67·7	...	61	14	79·6	94·2	63·1	65·3	13·7	...	10·6
Loralai	4699	848·2	...	845·8	888·9	885·2	93·1	...	99	5,7,8	68·8	...	62	18	77·1	90·0	69·7	73·4	21·6	...	21·5
Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sibi	441	982·3	+1·4	978·3	996·0	991·3	108·6	+0·8	116	1	87·1	—0.1	74	17	91·4	108·4	81·3	84·2	32·2	+5·1	29·5
Quetta	5490	824·7	—1·3	821·2	791·5	787·9	95·5	+1·5	99	6,7,8	67·0	...	57	1	75·4	93·8	69·7	76·9	23·0	+4·9	25·5
Quetta (Samungli)	5253	833·9	...	830·6	792·8	791·1	97·5	...	103	6	64·7	...	52	19	77·0	95·7	66·3	70·1	18·4	...	16·2
Chaman	4311	860·1	+0·4	857·0	888·2	884·2	102·6	+1·5	107	6,7,9	76·8	+0·5	73	12,25	88·8	100·7	76·3	83·0	26·1	+13·2	31·4
Nushki	3412	890·3	...	888·8	891·7	890·5	108·4	...	114	6,7	84·0	...	80	12,13	90·3	106·3	77·8	86·1	26·2	...	34·9
Kalat	6616	795·5	+1·6	792·3	792·3	789·9	92·0	+0·9	97	6	62·5	+0·3	59	1,2	74·3	87·4	63·0	64·5	15·6	+3·3	12·5
Dalbandin	2785	905·7	—0·1	902·7	888·3	886·0	109·3	+0·6	115	8	78·6	+2·4	70	23	84·6	107·6	64·3	74·2	12·4	—0·3	15·5
Nokkundi	2229	922·6	...	919·2	994·8	989·0	111·3	+1·9	117	6	85·3	+1·7	79	12,14	91·6	109·5	63·0	70·5	8·1	—9·1	9·6
BALUCHISTAN (South)																					
Las Bela	292	988·8	0·0	984·7	998·7	994·4	100·0	—0·8	110	12,13	82·5	+1·8	77	29,30,31	85·7	98·7	81·8	87·9	34·9	+2·0	39·5
Ormara	15	997·9	...	995·0	997·4	995·5	91·4	+1·2	96	14	81·9	+0·7	79	4 days	84·7	89·4	81·2	82·5	34·6	+3·0	34·1
Pasni	10	998·2	—0·4	995·6	998·9	996·3	92·3	+1·1	96	16	81·3	+2·4	75	17	83·8	88·9	80·7	82·3	34·8	+2·2	35·0
Turbat	510	983·2	...	977·5	1000·1	996·3	106·5	...	115	17,18.19	84.5	...	81	22	88·7	102·7	80·9	83·9	32·2	...	31·8
Panjgur	3122	894·6	+0·1	892·2	885·7	883·8	102·9	—0·4	109	8	...	...	...	...	79·2	100·8	74·5	81·2	27·1	+4·1	28·7
SIND (Upper)																					
Reti (X)	280	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jacobabad	183	990·1	+0·1	986·3	996·4	992·4	107·4	—0·6	115	1	85·9	+0·9	77	30	89·6	105·1	82·2	86·6	34·5	+1·4	34·7
Sukkur	221	988·7	—0·2	985·1	996·2	992·3	104·2	—0·1	110	8,12	...	...	...	...	86·6	102·7	79·6	83·2	31·8	+0·4	30·3
Padidan	153	991·0	...	987·8	996·2	992·8	106·5	...	116	1	82·7	...	72	30	87·8	102·7	79·6	81·0	31·8	...	27·7
SIND (Lower)																					
Umerkot	55	995·8	...	992·8	997·7	994·6	97·5	...	103	11	80·6	...	77	29	86·3	96·0	81·4	83·0	33·9	...	32·6
Hyderabad	96	994·1	—0·1	991,7	997·4	994·9	100·6	+1·3	108	1	82·3	+0·9	76	30	85·5	95·6	80·2	81·7	31·9	+3·1	30·9
Karachi (Air Port.)	73	996·1	...	993·8	998·5	996·3	93·2	...	104	15	81·4	...	75	14	84·3	88·2	80·4	81·4	33·2	...	32·9
Karachi (Manora)	13	998·6	+0·1	995·8	998·4	996·2	89·8	+1·3	94	17	82·1	+1·0	77	15	84·2	87·1	80·8	82·1	33·1	+2·3	33·7
Badin	31	999·4	+2·3	996·1	1000·2	997·5	96·9	+2·0	105	14	84·3	+3·1	78	30	84·8	92·7	79·8	81·6	32·7	+1·3	31·6
HILL STATIONS (excluding Kashmir and Baluchistan).																					
Murree	7113	780·5	+0·2	779·2	791·9	790·4	73·4	—2·8	85	7	61·0	+2·1	55	12	65·6	70·7	61·9	68·5	17·6	+0·4	19·6
Chakrat	4272	863·1	+1·2	860·3	890·9	887·8	88·0	—1·7	103	6,7	70·3	—1·4	64	4 days	73·9	85·3	68·5	71·0	21·6	+1·0	19·7
Drosh	4806	846·4	...	841·5	889·9	883·6	96·9	+0·2	103	8	75·4	+1·9	69	1,22	79·6	94·0	66·8	67·8	16·7	—0·8	11·4
Parachinar	5673	820·4	0·0	818·5	791·4	790·0	87·6	+0·5	99	7	67·6	+1·2	61	22	75·3	81·5	67·3	73·7	19·9	+2·5	25·6
Wana	4456	848·4	...	847·2	881·2	879·7	94·5	+2·7	103	7,9	71·5	+0·2	68	10	82·0	84·6	72·9	76·9	24·2	+4·6	25·6
AFGHANISTAN																					
Jalalabad	1950	925·1	...	921·4	987·6	984·8	103·9	...	117	5	81·9	...	76	3	88·7	101·9	82·5	93·8	34·8	...	50·9
Kabul	5955	814·9	...	812·1	794·9	792·1	94·0	+2·0	98	6,7	61·8	+0·7	51	12	71·8	91·7	56·4	63·8	9·9	—0·9	10·0
Kandahar	3462	887·4	...	884,3	890·8	887·4	101·2	...	104	8,11,30	63·8	...	52	26	78·9	99·8	60·0	62·1	20·1	...	36·4

Relative humidity %			Cloud Amount (Eighths of Sky.)			Precipitation, inches.						Wind velocity, knots		Wind direction—No. of winds from :— 0300 hrs. G.M.T									1200 hrs. G.M.T.									STATION.
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 12 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.	
23	24	25	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
																																BALUCHISTAN (North)
69	+8	50	2·0	+0·6	3·6	2·41	+0·27	0·80	28	5	+1·2	2·5	+0·1	0	5	0	0	0	0	0	0	26	2	3	6	3	3	1	2	0	11	Fort Sandeman
40	...	21	0·9	...	3·1	0·17	...	0·11	29	1	...	4·6	...	0	3	3	0	0	7	3	1	14	1	7	4	2	1	6	5	3	2	Hindubagh
69	...	46	0·8	...	3·4	1·58	+0·04	0·95	17	4	+1·1	3·5	...	0	0	1	0	0	1	0	0	29	0	0	5	4	7	4	4	0	7	Loralai
...	...	...	...	...	...	5·15	+2·05	1·75	27	4	—1·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Harnai
63	+8	36	2·1	+0·5	2·0	1·90	+0·50	1·40	17	4	+1·4	6·4	+1·2	2	3	6	7	0	4	3	3	3	0	0	0	4	4	1	12	10	0	Sibi
74	+13	47	0·8	—0·3	2·1	0·00	...	0·00	...	0	...	6·0	+3·6	0	1	1	8	17	2	0	0	2	3	3	0	4	6	4	7	4	0	Quetta
58	...	28	1·0	...	1·9	0·00	...	0·00	...	0	...	7·7	...	0	2	11	8	0	2	1	1	6	2	0	0	5	2	6	10	5	1	Quetta (Samungli)
56	+23	52	0·4	—0·3	0·0	0·00	—0·07	0·00	...	0	—0·2	...	...	1	0	0	0	7	8	3	0	12	0	0	0	0	2	8	6	4	11	Chaman
58	...	43	0·9	...	0·9	0·00	...	0·00	...	0	...	8·9	...	3	3	10	6	5	2	0	1	1	1	0	0	0	2	2	16	10	0	Nushki
55	+8	26	2·2	+0·6	4·3	1·01	+0·41	0·42	30	3	+1·5	5·7	+1·7	1	2	0	15	4	6	0	0	3	0	6	0	2	1	5	0	16	1	Kalat
30	—3	18	1·7	+0·7	0·0	0·00	—0·12	0·00	...	0	—0·4	4·3	—0·4	0	2	1	1	0	4	7	1	15	2	0	2	1	0	8	10	0	8	Dalbandin
18	—20	11	0·7	—0·3	0·6	0·00	0·00	0·00	...	0	0·0	7·4	—5·0	3	1	1	3	0	0	0	18	5	0	0	0	2	0	1	0	24	4	Nokkundi
																																BALUCHISTAN (South)
84	+3	66	6·5	+1·1	4·0(b)	2·45	—0·18	1·07	29	4	+0·5	3·5	+0·4	0	1	4	3	6	1	1	5	10	0	0	5	6	10	8	0	0	2	Las Bela
85	+2	73	5·9	+0·2	4·5	0·32	—0·33	0·22	18	1	—0·3	10·9	+2·3	1	1	0	0	0	14	15	0	0	0	0	1	1	5	14	10	0	0	Ormara
87	+3	73	3·9	—1·1	2·9	0·81	+0·34	0·70	18	2	+1·4	3·8	—2·0	0	0	9	2	1	0	17	0	2	0	0	0	2	10	1	18	0	0	Pasni
70	...	46	1·4	...	0·5	0·00	...	0·00	...	0	...	7·4	...	0	0	0	3	7	8	8	1	4	0	0	0	0	12	15	3	0	1	Turbat
80	+15	45	3·5	+1·7	3·5	0·44	—0·35	0·32	18	2	+0·7	6·0	+1·1	0	1	0	0	0	11	4	3	12	0	1	2	0	1	13	1	13	0	Panjgur
																																SIND (Upper)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Reti (x)
72	+4	47	2·1	+0·6	2·3	0·23	—0·72	0·11	12	1	—0·5	8·1	+1·6	1	4	8	12	4	0	0	1	1	0	0	2	19	7	0	0	2	1	Jacobabad
73	—2	43	2·8	+1·1	2·6	0·00	—1·44	0·00	...	0	—1·7	4·4	0·0	2	3	2	8	0	10	6	0	0	3	5	0	5	9	3	1	1	4	Sukkur
69	...	38	3·6	...	2·8	1·03	...	0·46	30	2	...	9·6	...	0	5	2	14	9	0	0	0	1	1	3	0	9	12	2	2	2	0	Padidan
																																SIND (Lower)
80	...	60	3·1	...	3·0	8·51	...	3·05	29	6	...	9·7	...	0	1	0	1	6	21	0	2	0	0	0	1	0	6	20	2	2	0	Umerkot
78	+7	54	5·1	+1·6	3·8	3·17	+0·19	1·53	28	7	+4·1	9·3	0·0	0	2	0	1	5	23	0	0	0	0	1	1	2	5	17	2	2	1	Hyderabad
84	...	74	7·1	...	6·0	6·27	...	3·28	16	5	...	12·5	...	0	0	0	0	0	12	15	2	2	0	0	0	0	5	16	9	1	0	Karachi (Air Port.)
85	—1	81	6·4	+0·3	5·8	5·45	+2·25	1·89	16	5	+2·5	13·4	+2·3	0	0	0	0	0	10	18	1	2	0	0	0	0	0	15	14	1	1	Karachi (Manora)
79	0	61	4·2	—0·7	3·9	3·57	—0·40	1·66	17	5	+1·2	4·2	...	0	1	0	0	2	19	3	0	6	0	0	1	1	3	16	8	0	2	Badin
																																HILL STATIONS (excluding Kashmir and Baluchistan).
83	+5	78	5·4	+1·3	5·9	13·97	+1·57	2·24	19	19	+5·7	3·0	—0·7	0	0	3	7	0	1	5	3	12	0	0	3	4	1	2	7	3	11	Murree
77	+5	54	4·2	+1·1	2·6	4·01	+0·37	1·76	30	5	+0·2	6·7	+1·7	1	0	0	3	26	0	0	1	0	3	0	0	0	27	0	1	0	0	Cherat
51	—5	26	2·2	+0·8	2·0	0·22	—0·38	0·10	29	1	—0·5	5·9	+1·5	0	6	0	3	0	10	0	0	12	0	3	0	0	0	27	0	1	0	Drosh
69	+9	71	3·1	+0·6	5·1	4·06	+0·54	0·90	17	7	+0·1	3·7	+1·5	0	4	9	8	1	2	1	0	6	1	2	10	12	5	0	0	1	0	Parachinar
64	+2	63	1·6	+0·1	1·4	0·42	—1·31	0·12	9	2	—2·0	4·0	...	0	0	1	4	0	1	0	1	23	7	1	2	0	0	0	9	6	6	Wana
																																AFGHANISTAN
77	...	74	2·3	...	2·3	0·00	...	0·00	...	0	...	5·0	...	1	3	8	8	1	1	4	0	5	0	23	1	6	0	0	0	0	1	Jalalabad
38	0	19	0·5	—0·1	0·8	0·00	—0·07	0·00	...	0	—0·3	3·0	+1·1	0	1	0	1	1	2	12	10	4	13	10	2	2	0	0	0	3	1	Kabul
61	...	60	0·0	...	0·1	0·00	...	0·00	...	0	...	1·1	...	0	2	0	0	0	0	0	0	29	0	0	0	0	0	1	0	0	30	Kandahar.

X Data not available.

(, mean for 29 days)

TABLE III.—ABSTRACT OF OBSERVATIONS RECORDED AT 0400 HRS, G.M.T. AND 1200 HRS

STATIONS	Height of bar. cistern above mean sea level in feet.	Pressure at Stations 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 0400 hrs. G.M.T.	Departure from normal.	Mean 1200 hrs. G.M.T.	Mean 0400 hrs G.M.T.	Mean 1200 hrs. G.M.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0400 hrs. G.M.T.	Departure from normal.	Mean 1200 hrs. G.M.T.	Mean 0400 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
IRAN.																								
Bask		997·4	...	994·6	997·8	995·0	95·6	—0·6	101	2	86·5	+1·3	82	2	90·0	94·0	83·0	85·1	35·4	...	37·0	74	...	68
ARABIA																								
Muscat	20	996·4	...	995·1	996·7	995·4	91·3	—3·8	100	2	85·2	—2·0	80	11	87·1	88·9	82·1	83·5	35·1	...	36·7	80	...	80
Kuwait ‡ ...	16	997·3	...	994·5	997·8	995·0	104·6	...	114	20	88·0	...	85	4 days	89·1	99·9	70·8	77·4	17·1	...	23·2	37	...	34

(‡) Observations recorded at 0500 GMT. instead of 0400 GMT.

G. M. T. FOR THE MONTH OF JULY, 1949.

Cloud Amount (Ten of Sky.) eighths.			Precipitation						Wind velocity, ~~miles~~ knots per hour.		Wind direction—No. of winds from :— 0400 hrs. G.M.T.									1200 hrs. G.M.T.									STATION.
Mean 0400 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
																													IRAN
3·2	+1·1	1·7	0·00	—0·02	0·00	...	0	0·0	9·5	+1·1	0	0	25	4	0	0	0	1	1	0	0	1	5	16	7	1	1	0	Jask
																													ARABIA
4·6	+2·0	1·5	0·00	—0·01	0·00	...	0	—0·1	3·1	0·0	1	8	2	3	7	1	0	4	5	1	3	1	5	1	2	0	2	16	Muscat.
0·2	...	0·5	0·00	...	0·00	...	0	...	5·8	...	2	2	0	0	0	0	12	12	3	2	2	2	0	0	0	11	11	3	Kuwait. ‡

TABLE IV.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS, G.M.T. AT 4TH CLASS STATIONS—JULY, 1949.

STATION.	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature 0300 hrs. G.M.T.	Mean wet bulb temperature 0300 hrs. G.M.T.	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 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 BENGAL (NORTH)																							
Pabna	89·6	—0·1	93	4 days	...	...	...	...	84·4	80·8	34·0	+0·4	85	+1	...	7·18	—3·91	1·32	23	12	—4·6	...	...
KASHMIR																							
Jammu*																							
Kargil*																							
IRAN																							
Zahidan * ...																							

*Data not available.

TABLE V.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 5TH CLASS STATIONS—JULY 1949.

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 BENGAL (North)							
	Rajshahi (R)						
	Sirajganj	23·10	+11·32	3·65	20	20	+3·9
	Rangpur	8·51	—7·50	1·68	2	16	+1·0
KASHMIR							
	Sonamarg*						
	Gurez*						
BALUCHISTAN (North)							
	Harnai	5·15	+2·05	1·75	27	4	—1·0

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

GPPD—S.3—444 (Civil) 60—20-3-62—200.

Regd.No. S-1452.

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT.
** ** ** **

PAKISTAN WEATHER REVIEW, 1949
MONTHLY WEATHER REPORT, AUGUST.

Published
by the

Authority of the Government of Pakistan.

Chief Features:

1. Passage of a depression from Cutch and adjoining Sind to northeast sector of North Arabian Sea off Sind Coast and its intensification into a storm on 4th evening causing heavy to very heavy rain in Sind and the Punjab.

2. Two fairly active monsoon spells in Eastern Pakistan from 1st to 10th and 14th to 26th.

West Pakistan:

A shallow depression which lay over southwest Rajputana moved into Cutch and adjoining Sind on the 2nd. It intensified there into a depression on 3rd and moved slightly westnorth-westwards on the 4th morning. It emerged into the northeast of North Arabian Sea off Sind coast and rapidly developed into a cyclonic storm by the same evening. After a short time the storm recurved northwards and crossed the Sind coast to the east of Karachi on the 5th morning and thereafter it weakened very rapidly while moving in a northerly direction. The monsoon was active over the whole of West Pakistan during the first week and caused nearly general rainfall in Sind from 2nd to 4th and on the 6th and local to scattered rainfall in Baluchistan and the Punjab from 4th to 7th and local in Sind on 1st, 5th and the 7th with a few showers on 8th.

A series of cold fronts associated with low pressure waves moving northeastwards across the extreme north of the region affected the weather in the North West Frontier Province, the Punjab and Kashmir, more so after the 24th with increasing thunderstorm activity.

The seasonal trough of low pressure got accentuated from 14th to 16th and extended from northeast Baluchistan to the northwest Punjab and again on 25th and 26th when it extended from north Baluchistan to the southwest Punjab.

A well marked low developed over the lower North West Frontier Province and the adjoining northwest Punjab on the 16th and shifted to the northwest Punjab on the 17th.

Rainfall was fairly widespread in the North West Frontier Province on 3rd and 19th, in the Punjab from 1st to 3rd, in the northwest Punjab from 8th to 10th, 17th, 21st and 25th. A few showers occurred in the North West Frontier Province on 1st, 2nd, 4th, 7th, 9th, 14th to 17th, 21st, 25th, 26th and 30th, in the Punjab on 19th, 20th, 22nd and 24th in the northwest Punjab on 12th, 13th, 16th in southwest Punjab on 10th, 12th, 19th to 21st, 25th in Baluchistan on 1st to 3rd, 26th to 31st.

Some of the noteworthy amounts of rainfall during the month were Murree, Leiah 2" each on 3rd, Karachi (Airport), Karachi (Manora) 5" each on 4th, Umerkot, Padidan 2" each on 5th, Rawalpindi 2" on 8th, Sialkot, Rawalpindi 2" each on 9th.

The total rainfall during the month was in large excess in south Baluchistan and Sind, in slight excess in north Baluchistan, normal in the lower North West Frontier Province, in moderate defect in the northwest Punjab and in large defect in the southwest Punjab and the upper North West Frontier Province. Averaged over the plains, the rainfall was normal. The mean maximum and minimum temperatures were normal in the region except for the lower North West Frontier Province north Baluchistan and upper Sind where the mean maximum temperature was below normal.

The mean relative humidity was in excess in Baluchistan and upper Sind and normal elsewhere in the region. Cloudiness was in excess over the lower North West Frontier Province and upper Sind and in defect over lower Sind and normal elsewhere.

East Pakistan.

Monsoon was fairly active in Eastern and Deltaic sub-divisions from 1st to 3rd and in the whole region from 4th to 10th. It again became fairly active in eastern sub-division on 14th and 15th, in northern sub-division on 16th and then became active over the whole region on 17th and continued so till the 26th. Rainfall was fairly widespread over the region during the fi 10 days and from 15th to 26th. A few showers were also reported during the remaining days of the month.

Some of the noteworthy amounts of rainfall during the month were Comilla 5", Bogra 3" on 1st, Comilla, Cox's Bazar 5" each on 4th, Bogra, Sirajganj 3" each, Cox's Bazar, Brahmanbaria 2" each on 5th, Chittagong, Satkhira 3" each on 8th, Cox's Bazar, Dinajpur 3" each on 14th, Cox's Bazar 3" on 16th, Cox's Bazar 3" on 18th, Chittagong 4" on 20th 3" on 21st, Mymensingh 3" and Sirajganj 5" on 22nd.

The total rainfall during the month was in slight excess in the northern sub-division and normal elsewhere over the region. The mean maxim and minimum temperature and the mean relative humidity and cloudiness were normal in 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.

"waseem"

TABLE I.—DIVISIONAL AND SUB-DIVISIONAL MEANS—AUGUST, 1949.

DIV SION.	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.		Degree.	Degree.	mb.	%	
1. East Bengal	15·22	14·81	+0·41	+3	0·0	+0·4	+0·8	+1	+0·6
Mean of East Pakistan	15·22	14·81	+0·41	+3	0·0	+0·4	+0·8	+1	+0·6
2. West Punjab	3·48	4·99	—1·51	—30	—0·2	—0·9	+0·5	+1	—0·5
3. N.W.F.P.	1·30	1·81	—0·51	—28	—1·7	—1·6	—0·4	+2	+0·4
4. Baluchistan	1·08	0·71	+0·37	+52	—1·7	+0·1	+2·0	+9	—0·1
5. Sind	3·78	1·59	+2·19	+14	—1·5	—0·1	+2·2	+6	—0·2
Mean of West Pakistan excluding Baluchistan	3·21	3·30	—0·09	—3	—0·9	—0·7	+0·9	+3	—0·2

SUB-DIVISION.	PRECIPITATION.				DEPARTURE FROM NORMAL OF.				
							0230 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.		Degree.	Degree.	mb.	%	
1. East Bengal (North)	13·59	12·09	+1·50	+12	—0·2	0·0	+1·2	+1	+0·8
2. East Bengal (East)	17·59	18·17	—0·58	—3	+0·1	+0·5	+0·4	+2	+0·4
3. East Bengal (Deltaic)	13·11	12·69	+0·42	+3	—0·1	+0·2	+1·1	0	+0·7
4. Kashmir*	*								
5. North West Punjab	4·47	6·14	—1·67	—27	—0·1	—1·0	+1·1	+2	—0·6
6. South West Punjab	1·01	2·11	—1·10	—52	—0·7	—0·5	—0·8	—2	—0·3
7. N.W.F.P. (Upper)	0·39	2·03	—1·64	—81	—1·0	—1·3	—0·1	—3	—0·1
8. N.W.F.P. (Lower)	1·61	1·73	—0·12	—7	—2·0	—1·7	—0·5	+4	+0·6
9. Baluchistan (North)	1·07	0·86	+0·21	+25	—2·5	—0·6	+1·4	+7	+0·2
10. Baluchistan (South)	1·10	0·42	+0·68	+162	—0·5	+1·6	+3·1	+10	—0·8
11. Sind (Upper)	4·21	1·00	+3·21	+321	—3·1	—0·7	+2·0	+7	+0·6
12. Sind (Lower)	3·35	2·17	+1·18	+54	0·0	+0·2	+2·3	+5	—1·0

* Data incomplete.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G. M. T.

STATIONS.	Height of bar. cistern above mean sea level in feet	Pressure at Stations 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.		
		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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST BENGAL (North).																					
Bogra	63	1001·0	+0·5	997·6	1003·2	999·8	88·9	+0·1	93	14,30,31	78·8	+0·2	75	6,25	82·5	84·7	80·1	81·1	34·4	+2·2	35·1
Dinajpur	123	998·5	+0·3	995·4	1002·6	999·5	88·8	—0·2	93	1,2	78·8	—0·1	76	9,25	82·8	84·3	79·7	80·4	33·6	+0·6	332
EAST BENGAL (East).																					
Cox's Bazar ...	38	1003·4	+0·5	1001·1	1004·7	1002·4	85·4	+0·1	90	1	76·5	+0·4	73	31	81·0	80·8	78·5	78·7	32·2	+0·5	32·9
Chittagong ...	87	1001·3	0·0	998·6	1004·3	1001·5	85·6	—0·3	91	1,31	76·6	+0·2	71	26	81·4	81·1	77·7	77·8	30·6	—0·7	30·6
Comilla	29	1001·6	—1·3	999·7	1002·6	1000·7	87·3	—0·2	92	31	77·9	+1·0	73	5	82·0	84·0	79·2	79·4	32·5	+0·4	32·4
Narayanganj ...	26	1001·9	—0·4	999·1	1002·8	1000·0	88·2	+0·4	93	31	78·4	—0·4	75	5 days	83·9	84·4	80·1	79·5	33·2	+0·4	31·6
Brahmanbaria ...	32	1002·3	...	999·5	1003·4	1000·6	88·1	—1·3	92	30	78·2	+2·6	74	25	83·2	83·9	79·3	79·7	32·0	+1·4	33·2
Sirimangal	69	1002·0	+1·3	998·5	1004·4	1000·8	89·0	—1·1	93	2	76·4	+0·3	73	24,25	79·8	83·1	77·9	79·6	31·9	+0·1	32·8
Mymensingh ...	62	1000·6	—0·8	998·3	1002·8	1000·5	90·9	+3·2	96	4,31	77·9	—0·4	75	1,9	82·5	85·8	79·7	80·5	33·6	+0·9	33·1
EAST BENGAL (Deltaic).																					
Faridpur	46	1001·0	—0·3	998·1	1002·6	999·7	85·1	—2·0	89	13,29,30	79·4	+0·7	76	6	83·6	83·6	80·4	80·3	34·8	+1·5	34·0
Barisal	11	1002·5	0·0	999·9	1002·9	1000·3	87·8	+0·8	92	31	78·3	0·0	74	25	82·0	83·1	79·6	79·6	33·3	+0·5	32·8
Khulna	16	1002·2	+0·3	999·5	1002·8	999·9	87·4	—0·5	92	30	78·9	+0·4	75	6	83·9	83·3	80·2	79·7	34·0	+1·4	32·8
Jessore	26	1001·4	—0·2	998·2	1002·3	999·1	88·9	+0·8	94	31	78·4	+0·6	75	6	83·8	83·9	80·7	80·6	34·8	+1·4	34·0
Satkhira	16	1000·1	—1·4	998·0	1000·6	998·5	88·7	+0·2	92	11,31	78·0	—0·4	71	6	83·2	84·5	80·7	80·9	34·4	+0·9	35·1

Relative humidity %			Cloud Amount (Eighths of Sky).			Precipitation.						Wind velocity in 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.	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.	
23	24	25	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).
90	+3	85	7·6	+1·5	7·3	12·27	—0·73	3·10	1	16	—0·4	2·7	+1·0	0	0	10	11	1	5	1	0	3	0	0	5	12	5	6	1	0	2	Bogra
89	0	83	6·0	+0·1	5·8	11·44	—2·27	3·30	14	13	—0·3	3·1	+0·8	0	4	15	1	3	0	0	0	8	0	1	17	0	1	0	0	1	11	Dinajpur
																																EAST BENGAL (East).
90	+2	91	6·5	+0·3	6·5	34·49	+6·74	5·00	4	25	+3·1	4·6	+0·8	0	0	1	6	8	0	0	0	16	0	0	0	4	7	2	0	0	18	Cox's Bazar
85	—1	86	6·8	+0·5	7·2	20·38	—0·04	3·95	20	19	+1·9	4·2	—0·1	0	1	0	18	8	0	0	0	4	0	0	1	9	16	3	1	0	1	Chittagong
88	+4	81	6·3	+0·7	5·9	26·06	+8·88	5·04	4	19	+1·2	7·8	+3·8	1	0	2	8	19	0	0	0	1	1	0	0	6	21	1	1	0	1	Comilla
84	—2	80	6·1	—0·8	4·2	14·11	+0·85	1·98	6	20	+2·4	4·5	+0·5	0	0	2	14	12	0	1	1	1	0	0	0	5	20	2	2	0	1	Narayanganj
84	+4	83	6·3	0·0	5·7	8·71	—3·95	2·50	25	11	—5·8	4·8	...	1	0	4	10	15	0	0	0	1	0	0	2	2	22	1	0	0	4	Brahmanbaria
92	+7	85	6·6	+1·3	6·8	9·50	—4·80	2·14	25	16	—4·1	2·9	—0·1	0	0	12	3	8	0	0	0	8	0	0	4	4	14	1	4	0	4	Srimangal
87	0	78	7·7	+0·9	7·6	9·87	—5·62	2·22	6	12	—6·7	2·5	+0·6	0	0	0	15	0	1	0	0	15	0	0	0	13	0	1	0	0	17	Mymensingh
																																EAST BENGAL (Deltaic).
85	—1	85	7·3	+1·3	6·7	10·15	—1·98	1·83	7	15	—2·1	5·5	+0·2	0	0	0	10	11	2	2	1	5	0	0	0	12	14	2	0	1	2	Faridpur
84	—2	85	7·0	+0·8	7·2	13·58	—1·36	2·32	7	20	—0·3	3·9	+1·4	0	0	0	24	3	0	0	0	4	0	0	0	15	4	4	0	1	7	Barisal
87	+3	85	6·0	—0·8	5·3	12·73	—1·06	2·81	26	12	—6·4	3·7	+0·1	0	0	3	9	11	2	1	1	3	0	0	1	10	11	2	0	0	6	Khulna
87	+1	86	5·9	—0·4	5·8	12·37	+1·33	2·64	4	18	+1·4	3·9	+1·5	0	1	2	8	10	4	2	1	3	0	0	2	10	8	4	0	1	6	Jessore
89	+3	86	7·0	+1·2	6·3	10·32	+4·75	3·83	6	18	+0·8	3·1	+0·8	1	0	3	11	6	7	1	1	1	2	0	4	3	11	3	4	0	4	Satkhira.

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

STATIONS.	Height of bar. cistern above mean sea level 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 3 hrs. G.M.T.	Departure from normal.	Mean 12 hrs. G.M.T.	Mean 3 hrs. G.M.T.	Mean 12 hrs. G.M.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 3hrs. G.M.T.	Mean 12 hrs. M.G.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 12 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
KASHMIR																								
Srinagar ×	5205																							
Gulmarg ×	8709																							
Dras ×	10059																							
Leh ×	11529																							
Skardu ×	7505																							
Gilgit ×	4890																							
Miagar	10190	696·1	...	694·5	699·6	696·9	72·9	...	82	31	44·2	...	36	17,22 23	57·5	70·4	47·6	51·0	8·1	...	5·1	50	...	29
NORTH PUNJAB																								
Lahore	702	975·9	—0·2	973·4	999·6	996·6	98·2	+1·2	104	4 days	79·6	+0·9	69	25,26	85·4	95·0	79·4	80·8	31·6	+1·8	29·4	77	+4	54
Sialkot	830	971·9	—0·4	969·4	999·8	996·7	94·4	+0·2	100	23,29,31	78·9	+0·7	72	25	84·1	93·7	78·1	81·4	30·0	—0·9	31·6	76	—8	57
Jhelum	765	974·1	...	972·8	999·7	996·6	95·4	...	102	31	76·7	...	71	25,26	84·1	92·1	77·9	80·2	29·7	...	29·5	74	...	60
Rawalpindi	1674	943·5	—1·0	941·7	998·9	996·5	95·2	+1·5	102	31	73·3	—2·2	69	25	81·8	90·3	75·6	78·7	27·7	—0·1	28·8	75	+1	60
Kohat	616	978·6	—0·5	976·1	999·4	996·5	97·8	—2·0	105	31	77·7	—3·9	66	25	85·2	93·9	79·9	83·4	32·5	+2·7	34·3	79	+9	65
Lyallpur	605	978·5	—0·5	976·2	998·9	996·2	96·8	—1·2	103	29	79·8	—0·7	72	26	84·4	93·3	78·3	79·5	31·0	+1·9	28·1	75	+4	55
SOUTH PUNJAB																								
Montgomery ...	558	980·9	+0·3	977·7	999·6	995·9	99·9	—0·2	106	31	80·8	—0·9	75	25,26	86·6	96·3	78·0	79·7	28·9	—2·2	26·9	66	—9	49
Multan (X)	413																							
Fort Abbas	475	983·3	...	980·2	999·4	995·9	100·6	...	108	31	82·6	...	78	28	86·6	98·3	77·9	76·4	29·0	...	23·0	67	...	41
Bahawalpur	384	986·2	—0·1	983·3	999·1	996·1	99·4	—1·2	107	31	81·7	0·0	77	25	85·9	96·7	79·8	81·6	32·0	+0·6	30·0	76	+4	55
Khanpur	297	989·2	—0·1	983·7	999·1	993·1	101·7	—0·6	105	18,19,20	81·8	+0·5	79	4 days	85·3	99·3	78·6	77·2	30·6	+2·6	21·7	73	+4	42
N.W.F.P. (Upper)																								
Chakdara	2197	925·8	...	922·9	999·5	994·5	92·9	...	98	31	72·8	...	70	4 days	78·4	88·9	73·5	80·8	25·8	...	32·4	78	...	63
Peshawar	1175	960·4	—0·2	957·2	999·3	995·5	97·2	—1·0	103	31	77·6	—1·3	72	25	84·5	95·2	74·9	76·6	26·8	—0·1	22·7	64	—3	44
Landikotal	3503	889·1	...	885·2	891·8	889·8	90·3	...	96	9,10	38·7	...	40	17	79·5	86·4	70·4	71·7	21·7	...	20·5	64	...	50
N.W.F.P. (Lower)																								
Bannu	1264	956·1	...	954·0	998·0	995·1	97·9	—2·1	103	15,31	79·2	—1·1	73	23,25	82·1	88·6	75·9	77·6	28·1	+0·8	24·1	70	+5	48
Miranshah	3026	900·3	...	898·2	890·2	888·4	92·1	—1·4	98	16,31	74·5	—2·2	61	25	78·0	89·5	69·9	72·3	21·6	—1·1	19·2	66	+5	47
D. I. Khan	570	979·6	—0·1	977·0	998·9	995·7	98·0	—0·5	104	31	79·5	—1·7	73	5,10	84·2	90·5	76·9	80·7	28·7	—1·0	28·7	74	+3	54

(x) Data not available.

Cloud Amount (Eighths of Sky.)			Precipitation, inches.						Wind velocity, knots		Wind direction—No. of winds from :—																		STATIONS
											0300 hrs. G.M.T.									1200 hrs. G.M.T.									
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.	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
																													KASHMIR
																													Srinagar ×
																													Gulmarg ×
																													Dras ×
																													Leh ×
																													Skardu ×
																													Gilgit ×
5·1	...	6·2	0·48	...	0·21	1	1	...	4·4	...	5	0	16	0	0	0	10	0	0	1	1	20	1	0	0	8	0	0	Miagar
																													NORTH PUNJAB
2·5	—0·6	3·5	1·60	—3·55	0·54	2	4	—1·7	2·5	+0·8	0	2	1	6	1	3	4	0	14	1	1	0	2	1	1	4	3	18	Lahore
3·8	+0·4	3·8	6·66	—2·64	2·34	4	7	—2·0	1·8	+0·2	2	8	8	4	5	1	0	1	2	3	3	0	1	4	6	4	6	4	Sialkot
2·5	...	3·3	5·02	...	0·99	5	8	...	1·3	...	1	1	2	3	1	1	1	2	19	1	2	4	3	2	5	2	2	10	Jhelum
3·0	—0·4	3·8	5·87	—3·30	2·45	8	8	—1·1	1·9	+0·5	0	2	7	0	4	0	0	0	18	0	0	7	2	1	2	3	0	16	Rawalpindi
1·8	—0·6	2·4	3·25	—0·26	1·47	25	4	+0·3	3·8	—0·8	0	11	4	1	0	4	1	0	10	0	9	4	9	0	7	1	0	1	Khushab
1·8	—1·6	3·7	4·97	+1·39	1·23	7	6	+0·7	2·1	—0·3	0	1	1	2	11	5	1	0	10	1	3	4	1	3	8	3	0	8	Lyallpur
																													SOUTH PUNJAB
2·1	+0·2	2·7	0·66	—2·24	0·34	12	2	—1·7	1·9	—2·4	0	0	11	0	2	0	0	0	18	0	1	2	2	6	1	3	0	16	Montgomery
																													Multan (R)
1·4	...	2·7	0·75	...	0·75	2	1	...	7·0	...	1	2	4	1	6	13	2	1	1	3	1	3	2	12	8	2	0	0	Fort Abbas
1·4	—0·8	1·9	3·37	+0·04	0·85	4	3	+0·7	4·2	+0·4	1	2	2	0	16	5	0	0	5	2	1	3	0	10	8	2	0	5	Bahawalpur
1·7	—0·3	1·8	3·73	+1·60	1·99	3	4	+1·6	...	...	2	3	1	1	9	12	2	1	0	4	1	2	1	8	3	0	6	0	Khanpur
																													N.W.F.P. (Upper)
3·2	...	2·5	1·12	...	0·40	9	4	...	4·5	...	1	1	3	1	1	3	0	18	3	0	5	4	20	1	0	0	1	0	Chakdara
3·1	—0·1	4·2	0·39	—1·94	0·25	19	4	+1·5	4·0	+2·4	6	2	0	1	0	0	0	4	18	1	20	2	0	1	4	2	0	1	Peshawar
2·2	...	2·0	1·45	...	1·20	16	2	...	*	...	5	4	5	0	0	0	0	2	15	7	17	1	0	0	0	0	2	4	Landikotal
																													N.W.F.P. (Lower)
3·2	+1·1	3·0	1·43	—0·46	0·71	4	3	—0·1	3·1	...	0	1	4	0	0	0	2	4	20	2	5	8	9	1	1	1	1	3	Bannu
2·0	+0·2	4·2	3·20	+1·00	1·10	30	4	+1·4	5·0	—0·4	0	1	0	1	0	1	0	1	27	0	1	10	16	1	2	0	0	1	Miranshah
2·4	+0·6	1·7	1·10	—0·90	0·98	4	1	—1·5	2·7	+1·2	4	10	6	1	1	1	3	0	5	1	4	6	4	4	1	1	0	10	D. I. Khan

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

STATIONS	Height of Bar. cistern above sea level.	Pressure at station level, millibars: Mean 3 hrs. G.M.T.	Pressure at station level, millibars: Departure from normal.	Pressure at station level, millibars: Mean 12 hrs. G.M.T.	Pressure at M.S.L., millibars: Mean 3 hrs. G.M.T.	Pressure at M.S.L., millibars: Mean 12 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 3 hrs. G.M.T.	Dry bulb temperature °F: Mean 12 hrs. G.M.T.	Wet bulb temperature °F: Mean 3 hrs. G.M.T.	Wet bulb temperature °F: Mean 12 hrs. G.M.T.	Vapour pressure, millibars: Mean 3 hrs. G.M.T.	Vapour pressure, millibars: Departure from normal.	Vapour pressure, millibars: Mean 12 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
BALUCHISTAN (North)																					
Fort Sandeman ...	4614	853·1	+0·3	850·6	888·5	887·3	94·3	—2·6	102	16	72·1	—1·2	66	26	77·5	91·9	69·5	78·6	21·4	+1·5	28·1
Hindubagh ...	5950	815·3	...	812·9	792·9	790·5	91·5	...	97	1,3	64·8	...	57	27	74·4	86·6	56·9	61·1	9·6	...	9·2
Loralai	4699	849·5	...	848·0	890·5	888·0	90·0	...	96	17	64·0	...	59	24	72·1	85·4	62·8	68·0	15·5	...	16·3
Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sibi	441	984·9	+1·5	981·7	998·4	994·7	107·0	+2·1	109	16,19,31	84·0	—1·3	76	2	85·4	102·1	79·4	79·8	31·6	+4·5	23·5
Quetta	5490	826·5	—1·2	823·6	791·8	790·1	88·7	...	93	1,10	60·3	...	51	21	69·7	85·3	65·9	75·5	20·5	+5·6	26·0
Quetta (Samungli) ...	5253	835·5	...	833·3	793·8	792·9	90·8	...	97	14	58·5	...	38	23	70·5	87·5	61·5	68·3	15·7	...	16·5
Chaman	4311	862·1	+0·5	859·2	891·2	887·2	95·5	—2·8	101	8,12,13	72·0	—1·3	64	18,20	81·6	93·8	61·8	69·6	10·9	—0·6	15·3
Nushki	3412	893·0	...	892·1	894·7	893·7	101·6	...	107	8,13,14	78·6	...	72	19,20	83·7	99·3	69·5	75·1	7·7	...	20·3
Kalat	6616	795·8	+0·4	794·1	793·2	791·6	84·7	—5·1	91	9,12	58·0	—0·2	50	19	69·3	78·1	58·9	61·3	13·0	+2·1	11·7
Dalbandin	2785	908·4	+0·4	905·8	890·8	888·8	102·6	—3·5	109	14	73·0	+1·4	62	22	81·0	100·9	61·9	71·5	11·2	—0·8	14·8
Nokkundi	2229	925·4	...	923·0	998·8	993·8	104·1	—2·8	112	7	80·1	—1·0	75	27	85·7	102·2	64·7	67·7	11·6	—2·5	7·4
BALUCHISTAN (South)																					
Las Bela	292	989·9	—1·5	987·5	1001·0	990·0	94·8	—4·4	109	14	78·6	+0·9	74	1	81·8	93·6	79·6	84·3	33·1	+2·7	36·5
Ormara	15	1000·3	...	997·3	1001·2	997·9	88·4	+1·4	92	20	80·0	+1·5	78	4 days	82·4	86·1	78·4	79·6	30·9	+1·8	31·5
Pasni	10	1000·7	—0·6	998·3	1001·0	998·6	92·9	+4·7	95	21	78·8	+2·5	75	25	81·0	86·8	78·5	81·0	32·1	+2·3	33·1
Turbat	510	985·4	...	981·1	1002·6	997·5	107·0	...	116	14	82·0	...	78	28	86·1	103·3	77·0	80·6	27·6	...	25·3
Panjgur	3177	896·8	+0·5	894·8	891·4	889·6	97·4	—3·5	105	12	...	...	...	...	72·7	95·8	71·8	81·1	26·0	+5·4	30·8
SIND (Upper)																					
Rohri *	280	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jacobabad	183	992·4	—0·1	989·9	998·7	996·1	99·9	—3·8	106	15	81·5	—0·7	70	7	84·6	96·4	81·2	86·2	35·1	+1·5	37·9
Sukkur	221	991·0	+0·7	988·2	998·6	995·6	98·8	—2·4	107	16	...	...	...	...	82·7	98·1	78·1	82·2	31·3	+2·5	30·0
Padidan	153	993·5	...	991·0	998·8	996·1	99·4	...	106	15	78·7	...	76	3,6,7	82·7	93·1	78·5	81·2	32·0	...	30·7
SIND (Lower)																					
Umarkot	55	997·7	...	995·2	999·5	997·1	92·2	...	99	29,31	78·0	...	75	4 days	82·8	91·4	79·0	82·5	32·2	...	33·7
Hyderabad	96	996·1	—0·6	994·7	999·4	998·1	95·5	—0·3	101	19,21,28	79·6	+0·4	75	16	82·2	90·8	78·0	80·5	30·9	+3·6	30·8
Karachi (A. P.) ...	73	998·2	...	996·4	1000·7	998·8	88·9	...	94	31	79·3	...	76	4	84·8	85·2	77·8	78·4	29·6	...	29·6
Karachi (Manora) ...	13	1000·2	—0·8	998·3	1000·6	998·7	86·9	+1·1	89	2,17,18	80·0	+1·5	76	4,6	81·5	84·6	79·1	81·2	32·2	+1·9	35·1
Badin	31	1000·0	+0·1	997·7	1001·1	998·8	92·5	+0·3	101	29	79·3	0·0	77	27,28	81·9	89·6	77·5	78·9	30·2	+1·1	29·6
HILL STATIONS (excluding Kashmir and Baluchistan).																					
Murree	7113	781·2	—0·4	780·2	792·7	791·6	71·8	—1·4	77	15	59·3	+1·9	54	25	64·3	68·5	60·7	64·3	16·6	—1·1	19·1
Chakrata	4272	864·1	+0·5	862·2	892·3	889·8	85·2	—0·2	93	31	60·4	+0·5	63	19	73·3	81·6	66·5	70·7	19·0	—2·7	21·2
Dhrosh	4806	847·6	...	843·9	891·3	886·6	91·4	—3·8	98	9	71·5	—1·3	61	22	75·4	87·8	65·7	69·4	17·7	—0·6	16·9
Panchmarg	5673	821·6	—0·3	820·4	792·2	791·5	82·9	—1·8	88	14	63·6	—1·2	58	19,21	70·2	76·9	64·9	70·9	19·3	+1·4	20·3
Wana *	4456	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
AFGHANISTAN																					
Jalalabad	1950	927·4	...	923·7	990·1	985·7	99·3	...	104	15	70·3	...	49	21,22,23	81·9	97·0	*	*	*	...	...
Kabul	5955	815·6	...	813·3	794·6	792·6	90·1	—0·9	97	12	49·0	+3·7	35	26	67·2	88·1	54·6	63·3	30·0	—0·7	9·4
Kandahar	3462	896·1	...	887·1	889·4	890·4	99·4	...	103	8	63·3	...	38	21,26	74·3	84·3	60·0	62·0	18·2	...	21·9

(*) Data not available

Relative humidity, %			Cloud Amount (Eighths of Sky.)			Precipitation, inches.						Wind velocity, knots.		Wind direction—No. of winds from :—																		STATIONS
														0300 hrs. G.M.T									1200 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 12 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.	
23	24	25	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
																																BALUCHISTAN (North)
75	+19	56	1·6	+0·1	3·2	0·30	—1·60	0·23	3	1	—2·8	2·3	+0·3	0	1	0	0	0	0	0	0	30	0	0	3	5	2	0	2	1	18	Fort Sandeman
35	...	23	1·1	...	3·2	0·47	...	0·35	3	1	...	6·5	...	2	3	2	2	0	15	5	1	1	0	5	2	2	0	17	2	2	1	Hindubagh
63	...	44	1·3	...	2·6	2·52	+1·30	0·95	4	4	+2·1	2·7	...	0	0	2	1	0	1	1	1	25	0	3	9	4	2	1	1	0	11	Loralai
...	...	...	...	...	...	4·35	+1·69	1·01	4	7	+2·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Harnai
72	+12	37	2·4	+1·0	2·9	0·74	+0·16	0·45	2	3	+1·9	4·2	—0·8	0	3	2	4	0	5	4	3	10	0	0	5	4	1	10	10	1	0	Sibi
82	+26	66	0·1	—0·9	2·6	1·93	...	0·84	6	6	...	5·0	+3·0	1	3	2	12	9	2	2	0	0	2	0	2	1	4	5	3	11	3	Quetta
61	...	40	1·1	...	2·5	0·08	...	0·03	4,6	0	...	6·6	...	0	0	10	8	1	1	0	0	11	1	0	3	6	1	3	12	5	0	Quetta (Samungli)
31	—1	24	1·1	+0·5	1·2	0·00	—0·04	0·00	...	0	—0·1	...	...	0	0	0	0	3	2	0	0	26	0	1	0	0	2	12	6	4	6	Chaman
49	...	31	0·6	...	1·3	0·08	...	0·08	5	0	...	8·9	...	5	1	11	3	5	0	2	2	2	1	1	3	1	0	4	13	8	0	Nushki
55	+9	35	1·3	—0·1	2·0	0·57	+0·24	0·39	5	2	+1·1	5·6	+1·7	0	1	0	12	9	0	0	2	7	0	10	0	1	0	0	0	19	1	Kalat
32	—2	21	1·5	+0·6	1·0	0·05	—0·08	0·05	3	0	—0·2	5·4	+1·1	2	2	0	1	0	4	12	0	10	0	1	2	1	1	1	14	5	6	Dalbandin
21	—10	13	1·0	+0·2	1·0	0·00	0·00	0·00	...	0	0·0	12·0	0·0	3	0	2	2	0	1	1	17	5	5	0	1	0	0	0	1	23	1	Nokkundi
																																BALUCHISTAN (South)
90	+8	73	3·8	—1·0	3·3	2·60	+1·54	0·62	31	6	+4·0	2·7	—0·2	1	0	3	3	8	1	1	1	13	0	0	4	2	22	3	0	0	0	Las Bela
82	—4	74	4·5	—1·7	2·9	1·60	+1·49	0·74	6	2	+1·7	11·0	+2·4	0	0	2	0	1	13	14	1	0	0	0	0	1	4	14	12	0	0	Ormara
90	+3	78	...	...	...	0·00	—0·17	0·00	...	0	—0·3	7·1	+1·4	0	0	6	0	0	0	15	0	10	0	0	1	0	6	1	23	0	0	Pasni
70	...	36	1·4	...	0·8	0·00	...	0·00	...	0	...	7·9	...	0	1	0	2	3	7	7	2	9	0	1	0	1	8	14	6	0	1	Turbat
95	+33	52	1·7	+0·3	2·2	0·20	—0·14	0·20	6	1	+0·3	4·7	+0·7	0	3	4	2	1	4	1	5	11	1	2	3	2	0	3	0	20	0	Panjgur
																																SIND (Upper)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Reti *
84	+6	66	2·1	+0·7	2·0	5·07	+4·19	1·86	2	5	+3·7	6·6	+0·8	2	2	1	18	2	0	1	4	1	1	0	1	19	4	1	1	3	1	Jacobabad
81	+7	50	2·0	+0·5	2·4	3·35	+2·23	2·00	6	4	+3·0	3·1	—1·3	1	4	6	8	4	6	1	0	1	3	3	0	2	0	10	7	3	3	Sukkur
82	...	53	2·5	...	2·5	4·96	...	2·06	5	6	...	6·5	...	2	0	1	21	4	0	1	0	2	4	4	0	3	12	1	1	4	2	Padidan
																																SIND (Lower)
84	...	68	2·8	...	2·3	3·66	...	1·85	5	5	...	7·2	...	3	0	0	0	1	26	0	0	1	1	0	0	0	0	27	2	1	0	Umarkot
82	+8	65	3·5	0·0	2·1	4·51	+2·48	3·04	4	5	+2·8	7·4	—1·6	2	1	0	11	0	17	0	0	0	1	1	0	2	0	25	0	1	1	Hyderabad
84	...	72	4·6	...	5·3	8·38	...	5·46	4	5	...	10·5	...	1	0	0	0	0	12	16	1	1	1	0	0	0	1	17	9	3	0	Karachi (A. P.)
90	+2	86	6·3	0·0	4·9	7·24	+5·68	5·11	4	4	+2·4	9·2	—1·2	1	1	0	0	0	8	18	1	2	0	0	0	0	0	13	14	4	0	Karachi (Manora)
82	+2	59	3·2	—2·0	3·1	2·20	—0·12	1·04	14	4	+1·7	7·6	...	2	0	0	0	2	17	10	0	0	1	0	0	3	11	14	2	0	0	Badin
																																HILL STATIONS (excluding Kashmir and Baluchistan).
82	—3	81	4·5	0·0	6·2	9·23	—4·58	2·27	3	16	+1·7	2·9	—0·3	0	1	0	4	0	0	4	1	21	0	0	3	5	0	1	10	4	8	Murree
73	—7	57	3·4	0·0	3·3	3·77	—1·17	1·52	18	5	—1·4	5·8	+1·3	11	0	0	1	18	0	1	0	0	3	0	0	3	25	0	0	0	0	Chorat
59	—3	38	2·4	+0·6	3·7	0·14	—0·51	0·08	21	0	—1·9	5·6	+1·4	0	1	0	0	0	5	0	0	25	0	1	0	1	0	27	0	2	0	Drosh
75	+8	91	3·0	+0·3	5·7	4·21	+0·51	1·47	14	9	+1·4	3·8	+1·9	1	3	6	2	1	2	2	2	12	1	1	10	8	1	1	2	3	4	Parachinar
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Wana *
																																AFGHANISTAN
*	...	*	2·3	...	3·3	0·22	...	0·22	13	1	...	3·0	...	0	2	3	3	1	1	6	0	15	1	16	9	2	0	2	0	1	0	Jalalabad
46	+4	28	2·1	+1·4	2·9	0·00	—0·08	0·00	...	0	—0·4	2·7	+1·1	2	1	1	3	3	2	8	10	1	9	9	4	2	0	0	2	5	0	Kabul
44	...	99	1·0	...	0·0	0·00	...	0·00	3	0	...	1·3	...	0	1	0	1	0	0	0	0	29	0	0	0	2	0	6	0	0	23	Kandahar

* Data adjusted

TABLE III.—ABSTRACT OF OBSERVATIONS RECORDED AT 0400 hrs. G.M.T. AND 1200 HRS. G.M.T.

STATIONS	Height of bar. cistern above mean sea level in feet.	Pressure at Stations 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 0400 hrs. G.M.T.	Departure from normal.	Mean 1200 hrs. G.M.T.	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0400 hrs. G.M.T.	Mean 1200 hrs. G.M.T.	Mean 0400 hrs. G.M.T.	Departure from normal.	Mean 1200 hrs. G.M.T.	Mean 0400 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
IRAN.																								
Jask	13	(g) 1000·2	...	(f) 997·9	1000·6	998·2	(f) 94·3	...	78	26	(f) 84·0	...	81	22	(f) 86·9	(f) 92·7	(f) 81·4	(f) 83·3	34·2	...	34·9	76	...	67
ARABIA																								
Muscat	20	999·1	...	997·5	999·6	998·0	91·6	+0·9	100	15	85·0	+1·5	80	29	87·1	88·3	80·4	82·3	32·8	...	35·2	76	...	77
Kuwait * ...	16	999·5	...	997·2	1000·0	997·7	106·0	...	113	12	86·3	...	80	26	89·9	101·1	70·4	86·2	26·5	...	35·6	56	...	53

* Observations recorded at 0600 hours G. M. T. instead of 0400 hours G. M. T.

Cloud Amount (eight of sky)			Precipitation						Wind velocity knots per hours		Wind direction—Number. of winds from :—																		STATION.
											0400 hrs. G.M.T.									1200 hrs. G.M.T.									
Mean 0400 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
																													IRAN.
(f) 1·6	...	(f) 1·8	0·00	...	0·00	...	0	...	(h) 8·2	...	0	1	22	0	0	0	0	0	2	0	0	1	7	6	10	1	0	0	Jask
																													ARABIA.
3·0	+0·5	1·3	0·00	—0·02	0·00	...	0	—0·1	2·5	—0·5	2	7	1	4	1	0	1	3	12	2	3	0	4	1	0	0	1	20	Muscat.
0·2	...	0·1	0·00	...	0·00	...	0	...	4·5	...	1	0	0	2	0	0	21	3	4	2	0	4	4	0	0	11	4	6	Kuwait *

(f) mean of 25 days (g) mean of 24 days (h) mean of 23 days.

TABLE IV.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS, AUGUST 1949.

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 0030 hrs. G.M.T.	Precipitation.						Wind.		Cloud.
	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	Departure from normal.
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)																								
Pabna	89·0	—0·5	93	31	...	...	...	...	84·0	80·7	3·40	+0·7	86	+1	...	10·33	—0·13	2·45	26	19	+3·2	...	...	...
KASHMIR																								
Jammu*																								
Kargil*																								
IRAN																								
Zahidan ...																								

*Data not available.

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 BENGAL (North)							
	Rajshahi (R)						
	Sirajganj	24·30	+12·97	5·40	22	19	+3·8
	Rangpur	9·61	—4·14	1·96	25	15	+1·0
KASHMIR							
	Sonamarg*						
	Gurez*						
BALUCHISTAN							
	Harnai	4·35	+1·69	1·01	4	7	+2·7

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

GPPD—S.I—445 (Civil) 60—15-11-63—200.

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PAKISTAN WEATHER REVIEW 1949

Monthly Weather Report

September

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Chief Features.—1. Movement of a depression westwards across Rajhasthan caused pronounced rainfall activity in some parts of West Pakistan between the 20th and the 22nd.

2. The monson was active over East Pakistan between the 15th and 17th and again during the last week.

West Pakistan.—The weather during the first fortnight was influenced by this movement of nine Western disturbances passing across the extreme north of the region. They caused fairly widespread thunderstorms or showers in the north West Frontier Province and northern parts of West Punjab between the 2nd and the 3rd and scattered over there between the 4th and the 11th, only in the North West Frontier Province hills on the 14th and in Sind on the 2nd.

Thereafter, the weather was influenced by another western disturbance which moved northeastwards across the extreme north of West Pakistan and caused scattered thunderstorms or showers in northwest Punjab and Kashmir practically throughout the third week and in the North West Frontier Province on the 15th, 20th and the 21st. A depression which was centred near Bikaner on the 20th caused incursion of monsoon air into West Punjab and Sind. It moved westwards and was centred about 50 miles to the southeast of Sukkar on the 21st and thereafter moved away in the same direction and became unimportant by the 23rd. Under its influence local rain with a few moderate to heavy falls occurred in the Punjab and Sind and scattered in Northwest Frontier Province and Baluchistan between the 20th and the 22nd.

A succession of western disturbances along with a secondary moving across the north of the region caused scattered to local thunder storms or showers in northwest Punjab and the North West Frontier Province between the 26th and the 28th. Fairly widespread thundershower occurred in the Northwest Punjab and N.W.F.P. and scattered duststorms were reported from southeast Punjab and north Baluchistan during the last two days of the month.

Outstanding amounts of rainfall during the month were Jhelum 3" Murree 2" on the 2nd, Jhelum and Rawalpindi 3" each on the 20th ; Khairpur 2" on the 21st and Pad Idan 5" on the 22nd.

The mean actual rainfall during the month was in large excess in south Baluchistan and upper Sind, normal in the Punjab and in large defec elsewhere. Averaged over the plains of West Pakistan, it was in sligh defect.

The mean maximum temperatures were above normal in north West Punjab and the North West Frontier Province and normal over the rest of the region. Mean minimum temperatures were above normal over the region outside north Baluchistan and lower Sind where they were normal Mean relative humidity was normal throughout the region. Skies were more clouded than usual in the Punjab and upper Sind, normally clouded in upper North West Frontier Province and lower Sind and less clouded than usual elsewhere.

East Pakistan.—Monsoon was fairly active over the region during the earlier part of the first week and caused local to fairly widespread rainfall in most of the sub-divisions till the 5th and scattered on other days.

Unsettled conditions in the head Bay of Bengal developed in to a depression on the 8th. It moved westwards and crossed Orissa coast by the following morning. In its association incursion of monsoon air took place into East Pakistan. Thereafter, a shallow low appeared in northwest angle of the Bay on the 12th and moved away northwestwards. They caused local to fairly widespread rainfall over the region practically throughout the second week.

Pronounced monsoon activity was experienced during the earlier part of the third week causing fairly widespread rain with locally moderate to heavy falls between the 15th and the 17th.

A low formed in east Central Bay of Bengal on the 18th and developed into a deep depression by the 19th. It intensified into a cyclonic storm and crossed Circars coast by the 21st. Under its influenced monsoon air was diverted from East Pakistan and only a few falls of rain Were reported from some of the divisions between the 18th and the 21st. Monsoon continued to be week and scattered rain fall only in the eastern sub-division till the 24th.

A fresh surge of monsoon penetrated into the region on the 24th and caused local to fairly widespread rainfall all over till the end of the month. The rainfall was locally heavy during the last three days.

Some of the noteworthyamounts of rainfall recorded were : Srimangal 3" on the 12th, Dinajpur 3" on the 16th, Faridpur 4" on the 17th, Cox's Bazar 3" on the 23rd ; Chittagong 3" on the 24, Sirajganj 3" and Cox's Bazar 4" on the 28th, Chittagong 6" on the 29th and Cox's Bazar 3" on the 30th.

The mean actual rainfall during the month was in moderate excess in eastern sub-division and normal in deltaic and northeren sub-divisions. The mean maximum and minimum temperatures, mean relative humidity and cloudiness were normal over the whole 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.

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TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS FOR SEPTEMBER, 1949.

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		Degree	Degree	Mb.	%	
East Bengal	11·99	11·12	+0·87	+8	+0·3	+0·5	+0·4	+1	+0·5
Mean of East Pakistan	11·99	11·12	+0·87	+8	+0·3	+0·5	+0·4	+1	+0·5
West Punjab	1·88	1·97	—0·09	—5	+2·2	+3·3	+1·9	+3	+0·3
N.W.F.P.	0·23	0·70	—0·47	—67	+2·6	+3·9	+2·5	+2	—0·2
Baluchistan	0·21	0·19	+0·02	+1	+1·0	+1·7	+1·0	—1	—0·5
Sind	0·25	0·45	—0·20	—44	+0·9	+1·9	+2·1	+3	—0·2
Mean of West Pakistan excluding Baluchistan	1·05	1·24	—0·19	—15	+1·8	+2·9	+2·1	+3	0·0
East Bengal (North).	11·25	11·04	+0·21	+2	+0·5	—0·5	—1·1	+2	+0·7
East Bengal (East)	15·85	12·57	+3·28	+26	+0·3	+0·9	—0·1	+2	+0·4
East Bengal (Deltaic)	8·09	8·90	—0·81	—9	+0·2	+0·4	+0·7	0	+0·5
Kashmir (*)									
North West Punjab	2·39	2·48	—0·09	—4	+2·4	+3·3	+2·6	+4	+0·3
South West Punjab	0·63	0·70	—0·07	—10	+1·5	+3·3	+0·2	—2	+0·3
N.W.F.P. (Upper)	0·27	0·81	—0·54	—67	+2·7	+3·6	+3·1	—1	0·0
N.W.F.P. (Lower)	0·21	0·66	—0·45	—68	+2·5	+4·0	+2·3	+3	—0·3
Baluchistan (North)	0·00	0·21	—0·21	—100	+1·6	+1·5	+0·8	+2	—0·2
Baluchistan (South)	0·63	0·16	+0·47	+294	0·0	+2·0	+1·5	—1	—0·9
Sind (Upper)	0·63	0·09	+0·54	+600	—0·5	+2·9	+0·9	+3	+0·2
Sind (Lower)	0·00	0·68	—0·68	—100	+1·9	+1·5	+2·9	+3	—0·5

(*) Data incomplete.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of cistern above mean sea level in feet.	Pressure at Stations 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.		
		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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST BENGAL (North). ...																					
Bogra	63	1003·3	—1·3	999·8	1005·5	1002·0	89·4	+0·3	95	21,24	79·0	+1·1	76	28,29,30	83·0	85·0	80·0	80·5	33·6	+0·7	33·5
Dinajpur ...	123	1000·8	—1·4	997·6	1004·9	1001·8	90·2	+1·5	98	22	75·9	—2·0	73	29	83·8	85·6	80·2	80·3	34·0	+1·7	33·1
EAST BENGAL (East).																					
Cox's Bazar ...	38	1005·3	—0·9	1002·2	1006·6	1003·5	86·2	—0·2	91	21	75·6	—0·3	62	7	81·3	81·2	78·0	77·9	30·6	—1·1	30·6
Chittagong ...	87	1003·3	—1·4	1000·0	1006·3	1003·0	86·2	—0·9	91	19,21,22	76·8	+0·4	73	30	81·8	81·8	77·6	78·2	30·9	—0·4	31·7
Comilla	29	1004·5	—1·7	1001·3	1005·5	1002·3	88·8	+0·2	97	21	77·7	+0·8	74	30	82·3	84·4	79·1	79·9	32·5	+0·3	32·4
Narayanganj ...	26	1004·1	—1·9	1001·1	1005·0	1001·9	89·6	+0·9	97	21	79·3	+0·5	76	28	84·8	84·5	80·2	79·8	33·5	+1·0	33·5
Brahmanbaria ...	32	1004·7	...	1001·4	1005·8	1002·5	89·7	—0·5	10·4	21	78·7	+2·8	75	30	84·1	84·3	79·7	80·1	32·4	+1·3	33·2
Srimangal ...	69	1003·7	—1·8	1000·0	1006·1	1002·3	89·2	—1·1	97	19	76·2	+0·9	73	30	80·1	83·3	77·8	80·1	31·1	—0·4	33·6
Mymensingh ...	62	1002·9	—2·3	1000·1	1005·1	1002·3	92·0	+4·2	98	20,21	78·8	+1·0	76	4 days	83·4	85·9	79·5	80·2	32·0	—0·5	33·1
EAST BENGAL (Deltaic).																					
Faridpur ...	46	1003·4	—1·4	1000·0	1005·0	1001·6	85·9	—1·9	94	20	79·6	+1·1	76	28	84·6	84·0	80·4	80·0	34·3	+1·0	33·2
Barisal	11	1004·9	—1·4	1001·6	1005·3	1002·0	89·4	+1·3	95	20	78·3	+0·1	75	30	83·7	83·8	79·9	79·4	33·2	+0·3	32·4
Khulna	16	1004·7	—1·4	1000·6	1005·2	1001·2	88·6	—0.4	94	21	79·0	+0·5	73	17,28	84·4	83·2	79·9	79·2	32·4	—1·3	32·0
Jessore	26	1004·2	—1·4	1000·7	1005·1	1001·6	91·1	+1·8	96	21	77·9	+0·4	75	17	85·1	83·3	81·2	80·1	34·3	+1·0	33·6
Satkhira ...	16	1004·3	—1·5	998·7	1004·8	999·2	90·0	+0·4	95	21	78·1	—0·2	75	15,17	84·7	85·0	81·0	81·0	35·1	+2·5	34·3
KASHMIR.																					
Srinagar (x) ...	5205																				
Gulmarg (x) ...	8709																				
Dras (x) ...	10059																				
Leh (x)	11529																				
Skardu (x) ...	7505																				
Gilgit (x) ...	4890																				
Miagar	10190	698·0	...	695·1	701·6	698·4	70·9	...	82	1	36·5	...	26	28	49·7	65·9	39·0	45·1	4·8	...	3·8

(x) Data

Relative humidity %			Cloud Amount (Eighths of Sky).			PRECIPITATION.						Wind velocity in 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.	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	
23	24	25	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
						Inches	Inches	Inches																								
																																EAST BENGAL (North)
87	+3	82	6·8	+1·8	6·8	14·33	+3·04	2·41	29	15	+2·4	2·2	−0·8	0	2	10	2	1	3	2	0	10	0	1	9	4	1	3	1	0	11	Bogra
85	0	79	4·7	−0·4	4·2	13·27	+0·22	2·89	16	14	+1·5	2·5	−0·7	0	3	14	0	0	0	0	0	13	0	3	8	0	0	1	0	0	18	Dinajpur
																																EAST BENGAL (East)
86	+2	86	5·7	+0·5	4·9	27·52	+12·27	4·39	27	21	+6·6	2·8	+0·2	0	0	1	3	4	0	0	0	22	0	0	0	4	8	0	0	0	18	Cox's Bazar
82	−2	85	6·3	+0·8	6·0	20·69	+8·05	5·85	29	13	0	3·6	+0·5	2	1	3	11	7	1	1	0	4	1	0	2	5	13	7	1	1	0	Chittagong
87	+7	82	6·1	+1·2	5·4	11·53	+0·18	3·30	1	15	−1·3	5·5	+2·3	1	0	4	7	15	0	0	0	3	1	0	0	3	19	1	2	0	4	Comilla
81	−1	81	5·4	−0·7	4·2	8·16	−1·60	1·31	30	17	+4·9	3·4	−0·5	1	0	6	3	14	1	4	0	1	1	0	0	0	23	0	2	0	4	Narayanganj
82	+3	83	5·0	−0·5	5·1	11·50	+1·90	1·92	29	14	+0·9	4·1		1	1	2	10	13	1	0	2	0	0	0	1	8	13	1	3	0	4	Brahmanbaria
90	+5	87	6·0	+1·1	5·9	12·45	+0·68	2·59	12	19	+3·1	2·7	+0·2	3	1	5	4	12	0	2	1	2	2	1	2	1	8	2	8	1	5	Srimangal
83	−2	78	5·4	−0·6	5·5	11·38	−2·71	2·46	29	10	−4·7	2·7	+1·3	0	0	1	6	0	0	1	0	22	0	0	0	5	0	0	1	0	24	Mymensingh
																																EAST BENGAL (Deltaic)
83	+2	83	6·3	+1·3	6·7	14·79	+5·53	4·10	17	15	+3·0	4·8	+1·1	2	1	0	9	13	2	0	2	1	1	1	0	11	13	2	0	0	2	Faridpur
84	+1	82	6·0	+0·7	6·0	9·87	−0·21	2·50	30	12	−2·2	3·1	+1·3	0	0	1	14	3	1	0	0	11	0	1	0	10	4	3	0	0	12	Barisal
81	0	83	4·7	−1·0	4·2	5·09	−2·83	1·43	15	10	−2·2	3·1	+0·5	0	0	1	7	6	2	1	0	13	0	0	0	7	7	2	0	0	14	Khulna
84	0	87	5·4	+0·3	5·4	6·58	−1·90	1·85	12	12	0	2·9	+1·0	1	0	1	6	12	7	0	0	3	0	0	2	5	14	1	0	0	8	Jessore
80	−3	84	6·0	+1·0	6·2	4·12	−4·66	0·91	12	10	−2·2	2·6	+1·1	0	0	4	15	4	4	2	1	0	2	0	2	9	13	3	0	0	1	Satkhira
																																KASHMIR.
																																Srinagar (x)
																																Gulmarg (x)
																																Dras (x)
																																Leh (x)
																																Skardu (x)
																																Gilgit (x)
41	...	18	3·5	...	5·3	0·08	...	0·06	7	0	...	5·1	...	4	0	6	0	0	0	8	0	12	0	0	19	0	2	0	9	0	0	Misgar

not available.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of bar cistern above mean sea level in feet.	Pressure at Stations 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.		
		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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
NORTH PUNJAB.																					
Lahore	702	978·5	—2·4	975·5	1002·3	998·7	101·0	+3·7	106	1,13,14	77·7	+4·6	65	30	84·4	96·2	77·1	79·6	28·5	+3·3	27·0
Sialkot	830	974·5	—2·3	971·6	1002·5	998·9	94·9	+0·3	103	13,26	78·2	+4·4	63	30	83·2	92·2	76·3	79·0	26·2	+0·7	27·8
Jhelum	765	976·9	...	973·9	1002·6	998·9	96·5	...	102	13,14	75·0	...	65	30	82·3	91·9	76·2	79·5	28·4	...	29·6
Rawalpindi ...	1674	946·9	—2·2	943·9	1002·9	998·7	96·2	+2·8	103	1	73·1	+3·8	63	30	80·9	89·8	73·0	75·7	24·5	+2·7	24·2
Khushab ...	616	981·4	—2·6	978·0 (b)	1001·9	998·4 (b)	101·0	+2·4	108	12	75·5	—0·6	62	30	84·4	97·3	76·6	80·2	27·8	+4·0	27·4
Lyallpur	605	980·8	—2·9	978·0	1001·3	998·0	101·1	+3·0	106	1,12,13	79·4	+4·2	64	30	83·0	97·4	75·0	77·3	26·0	+2·4	22·8
SOUTH PUNJAB.																					
Montgomery ...	558	983·0	—2·4	980·0	999·8	998·6	101·6	+2·3	108	12	79·1	+3·2	66	30	85·8	97·8	75·5	76·7	25·5	—0·4	21·8
Multan (R) ...	413																				
Fort Abbas ...	47475	985·7	...	982·4	1001·7	997·9	102·7	...	111	12	80·4	...	68	30	86·6	99·8	76·6	78·1	27·2	...	24·1
Bahawalpur ...	384	988·4	—2·3	985·5	1001·2	998·1	101·1	+0·7	108	11,12	79·1	+3·4	68	30	83·5	98·7	76·5	80·5	28·0	+0·8	27·2
Khanpur (R) ...	297																				
N.W.F.P. (Upper)																					
Chakdara ...	2197	928·6	...	925·2	1002·8	997·2	93·8	...	99	2	70·5	...	58	30	76·4	90·1	71·1	78·8	23·8	...	29·0
Peshawar ...	1175	963·1	—2·5	959·6	1002·6	998·1	97·7	+2·7	103	1,2	75·4	+3·6	61	30	82·1	94·1	72·7	75·3	23·2	+3·1	21·2
Landikotal ...	350349	888·2	...	886·2	892·9	891·0	92·3	...	97	7	53·3	...	45	13	78·5	86·3	65·9	67·1	16·6	...	14·9
N.W.F.P. (Lower).																					
Bannu	1264	958·7	...	956·1	1001·0	997·2	100·3	+2·4	106	1,2	78·4	+4·7	62	30	82·9	95·8	73·3	74·9	23·7	+2·2	20·1
Miranshah ...	30256	902·5	...	900·1	892·4	890·2	94·5	+2·8	101	2	75·2	+4·1	60	30	78·3	91·0	68·3	73·3	18·7	+3·6	21·3
D. I. Khan ...	57033	982·2	—2·5	978·4	1000·2	997·4	101·8	+2·4	106	4 days	78·7	+3·1	67	30	83·3	99·7	75·3	80·7	26·3	+1·0	27·3
BALUCHISTAN (North).																					
Fort Sandeman ...	4614	855·7	—0·9	852·8	894·3	889·8	95·5	+2·8	101	2	68·9	+2·7	51	30	72·7	93·7	63·9	76·3	16·7	+3·6	23·7
Hindubagh ...	5950	817·8	...	815·1	795·4	792·9	92·0	—	100	11	59·1	—	52	20	71·1	83·6	52·0	60·1	6·5		9·6
Loralai	4699	852·4	...	849·6	893·9	889·7	91·6	...	96	12	59·5	—	49	30	67·3	87·2	52·7	64·2	7·7		11·0
Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sibi	441	987·5	—1·0	983·6	1001·1	994·9	107·0	+3·0	112	10,11	81·3	+2·4	72	30	86·1	102·1	75·9	79·4	26·1	+5·6	23·9
Quetta	5490	828·6	—3·5	826·0	793·5	792·5	87·2	...	93	11,12	49·8	—	44	16	61·1	85·3	57·0	73·6	14·1	+3·9	23·1
Quetta (Samungli)	5253	836·4	...	836·0	795·7	794·3	89·0	...	97	4	48·0	—	43	15,27	61·2	86·5	49·6	62·4	7·0		9·3
Chaman	4311	865·1	—1·2	863·1	894·2	892·0	92·0	+1·2	101	12	64·7	+1·0	57	30	74·9	89·7	54·9	61·1	6·7	—1·2	7·1

(R) Register not received.

Relative humidity %			Cloud Amount (Eighths of Sky).			PRECIPITATION.						Wind velocity in 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.	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	
23	24	25	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
						Inches	Inches	Inches																								NORTH PUNJAB
71	+5	48	1·7	+0·3	1·7	1·98	—0·22	1·13	3	3	+0·5	2·7	+1·4	0	1	0	10	2	0	0	0	17	0	3	1	2	1	2	3	2	16	Lahore
72	—3	54	2·3	+0·7	2·3	4·39	+0·96	1·43	2	6	+2·2	2·1	+0·9	1	5	7	9	1	0	0	3	4	2	3	0	2	0	3	1	7	12	Sialkot
74	...	57	2·7	...	2·0	9·00	...	3·10	2	7	...	1·8	...	1	4	4	2	1	0	0	2	16	0	1	3	4	1	2	1	2	16	Jhelum
72	+14	52	2·3	+0·7	1·6	4·35	+0·46	2·62	20	5	+0·4	2·3	+1·0	0	4	12	1	1	0	2	0	10	0	2	3	0	1	0	6	0	18	Rawalpindi
69	+5	46	1·0	—0·1	0·7	0·27	—1·11	0·16	29	2	0·0	4·6	+0·9	2	11	6	6	1	0	2	0	2	1	8	4	11	0	5	0	0	1	Khushab
65	+1	39	1·6	+0·1	1·6	0·94	—0·55	0·94	30	1	—0·7	2·1	+0·1	1	2	5	6	5	6	0	0	5	3	2	1	2	9	5	1	1	6	Lyallpur
																																SOUTH PUNJAB
60	—9	37	1·1	+0·2	1·3	0·02	—1·25	0·02	20	0	—1·6	1·0	—2·4	0	0	0	8	0	6	1	0	15	0	1	2	2	1	5	3	0	16	Montgomery
																															1	Multan (R)
60	...	39	0·7	...	0·8	4·05	...	3·90	20	2	...	6·3	—0·7	0	2	2	5	5	14	2	0	0	7	3	2	0	3	11	1	2	1	Fort Abbas
72	+5	44	0·9	+0·5	0·6	1·23	+1·10	1·16	21	1	+0·8	4·1	+1·0	1	0	0	0	12	9	0	0	8	0	1	0	0	0	16	0	0	13	Bahawalpur
																																Khanpur (R)
																																N.W.F.P. (Upper)
77	...	60	2·3	...	0·9	1·58	...	1·20	2	2	...	3·7	...	0	0	0	2	0	3	2	20	3	0	12	5	8	0	2	0	1	2	Chakdara
59	—1	40	1·5	0·0	2·6	0·27	—0·54	0·17	27	2	+0·5	2·7	+1·4	9	3	0	0	0	0	0	3	15	3	18	0	1	1	1	1	0	5	Peshawar
53	...	37	1·4	...	2·0	0·15	...	0·15	29	1	...			4	4	3	0	0	0	0	0	19	5	12	8	0	0	0	0	0	5	Landikotal
																																N.W.F.P. (Lower)
61	+1	36	0·7	—0·2	0·9	0·40	—0·23	0·32	30	1	0·0	3·2	...	2	6	2	0	1	0	3	1	15	1	4	11	11	3	0	0	0	0	Bannu
59	+7	43	0·3	—0·3	1·5	0·23	—0·50	0·23	30	1	—0·7	5·7	+1·1	0	0	1	1	0	1	0	0	27	0	2	13	14	0	1	0	0	0	Miranshah
70	+1	47	0·4	—0·4	0·3	0·00	—0·63	0·00	...	0	—0·9	2·5	+1·3	1	19	4	0	0	0	0	0	6	0	6	6	1	2	1	0	0	14	D. I. Khan
																																BALUCHISTAN (North)
61	+10	46	0·3	—0·3	1·0	0·00	—0·32	0·00	...	0	—0·7	2·0	+0·3	0	1	0	0	0	0	0	0	29	0	1	0	1	1	4	0	1	22	Fort Sandeman
25		20	0·4	—	0·4	0·00		0·00	...	0		6·8	...	0	0	0	2	0	7	15	4	2	0	1	2	1	0	16	8	2	0	Hindubagh
37		26	0·3	—	0·5	0·00	—0·19	0·00	...	0	—0·5	4·4	...	0	1	5	0	0	2	5	0	17	0	0	4	5	7	2	1	0	11	Loralai
...	...	...	...	...	...	0·00	—0·94	0·00	...	0	—1·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Harnai
60	+10	35	0·5	0·0	0·6	0·00	—0·13	0·00	...	0	—0·3	3·0	—0·3	0	2	0	7	0	3	2	0	16	0	0	3	8	1	9	7	1	1	Sibi
79	+27	60	0·4	+0·1	0·5	0·00	—	0·00	...	0	...	3·7	+2·1	0	3	2	1	3	2	1	2	16	10	4	0	0	0	1	4	11	0	Quetta
44		26	0·3	—	0·4	0·00	—	0·00	...	0	...	4·6	...	0	0	4	1	2	1	0	2	20	4	0	1	0	0	1	11	12	1	Quetta (Samungli)
25	—6	16	0·0	—0·2	0·0	0·00	—0·03	0·00	...	0	—0·1	...	...	0	0	0	0	0	3	1	0	26	1	0	0	0	2	4	10	8	5	Chaman

(b) Mean of 29 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of bar. cistern above mean sea level in feet.	Pressure at Stacions 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.		
		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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
BALUCHISTAN (North)—Contd.																					
Nushki (R) ...	3412																				
Kalat	6616	798·6	—0·4	796·7	796·0	794·2	84·3	+0·3	91	9	50·3	+1·8	42	30	61·6	79·8	51·1	62·1	9·3	+0·6	13·0
Dalbandin ...	2785	912·3	—1·0	909·4	894·3	892·3	100·4	+1·1	108	12	62·2	+0·6	55	30	70·2	97·7	51·1	67·0	5·1	—3·0	10·6
Nokkundi ...	2229	929·8		927·1	1004·2	998·4	101·6	+1·1	111	11	71·7	+0·8	60	28,29	78·3	98·5	55·6	64·7	6·3	—4·1	6·3
BALUCHISTAN (South).																					
Las Bela... ...	292	994·2	—1·5	990·3	1004·3	1000·1	96·8	—2·6	109	10	75·2	+1·6	71	7	80·3	95·1	78·2	83·3	32·2	+4·2	33·1
Ormora	15	1003·3		1000·5	1003·8	1001·0	89·7	+3·3	91	9	78·1	+1·8	74	23	79·9	84·2	76·8	78·0	30·3	+2·7	29·8
Pasni	10	1003·9	—2·2	1001·2	1004·2	1001·4	89·0	—0·2	96	14,15	75·0	+2·5	73	9,16,23	78·9	84·8	76·5	79·3	30·0	+2·7	31·9
Turbat	510	988·3	...	984·1	1005·8	1003·9	107·5		112	4 days	78·2		75	22	83·3	104·3	76·4	83·1	27·5		28·6
Panjgur	3177	899·4	—1·6	897·6	894·3	892·3	95·3	—0·4	103	12					71·7	90·2	57·7	64·6	10·2	—3·8	9·8
SIND (Upper)																					
Reti (R) ...	280																				
Jacobabad ...	183	995·1	—3·0	992·1	1001·5	998·2	101·4	—0·9	109	11	79·9	+2·9	75	31	83·3	99·1	77·7	81·8	29·7	+1·3	28·7
Sukkur	221	993·7	—2·6	990·9	1001·3	998·2	100·3	—0·1	110	11					81·2	99·1	75·6	80·3	27·7	+0·5	26·3
Pad Idan ...	153	996·1		993·6	1001·4	998·7	101·6		111	10,11	75·8		72	28,29,30	80·1	99·1	77·4	86·7	30·8		37·1
SIND (Lower).																					
Umarkot ...	55	1001·0		998·4	1002·9	1000·2					76·7		74	12	83·6	95·7	78·4	83·0	30·0		33·7
Hyderabad ...	96	998·0 (e)	—3·8	996·8 (c)	1001·3	1000·1	100·6	+3·3	109	10	78·3 (e)	+1·9	76	4 days	81·6 (c)	94·7 (e)	76·2 (e)	79·0 (e)	28·7	+3·5	27·3
Karachi (Air port)...	73	1001·3		999·1	1003·8	1001·6	90·5	...	102	10	78·8	...	76	23	81·1	85·5	77·0	78·7	28·8		30·0
Karachi (Manora) ...	13	1003·2	—2·6	1001·1	1003·7	1001·5	86·2	+0·6	89	10	78·6	+1·9	76	7 days	79·8	83·8	77·1	79·3	32·4	+3·6	29·9
Badin	31	1002·4	—2·0	999·8	1003·5	1000·8	95·9	+1·8	106	10	78·0	+0·8	76	27,28	81·6	92·8	76·8	78·8	28·9	+1·7	30·7
HILL STATIONS (Excluding Kashmir and Baluchistan.)																					
Murree	7113	783·4	—1·1	782·2	794·9	793·6	73·6	+1·3	78	14	36·9	+2·1	44	30	63·3	68·6	57·9	61·9	14·3	+1·5	16·5
Cherat	4272	865·8	—1·5	864·2	894·3	892·1	87·1	+3·1	94	1	69·4	+3·3	54	30	72·7	81·9	64·7	67·2	17·0	+1·4	20·0
Drosh	4806	850·2	...	845·9	894·6	888·9	90·0	+2·0	99	1,2	68·4	+4·0	53	30	70·2	85·4	61·1	68·6	14·7	+1·9	16·6
Parachinar ...	5673	823·7	—1·5	822·0	794·2	793·2	84·1	+2·9	90	2	62·8	+4·2	48	30	69·2	79·5	60·0	65·7	14·4	+1·9	16·7
Wana	4456	848·5	...	846·3	881·8	878·7	92·5	+2·9	99	2	64·7	+3·5	61	5,26	74·6	64·3	86·9	75·0	16·4	+3·9	24·8
AFGHANISTAN.																					
Jalalabad (R) ...	1950																				
Kabul	5955	818·1	...	815·5	796·5	794·9	88·4	+3·9	98	1,2	53·3	+1·9	39	30	60·0	83·7	47·0	58·3	6·4	—1·2	7·8
Kandahar ...	3462	894·9	...	892·1	898·3	895·4	95·0	...	105	1,2	50·4	—	44	17,18	63·1	91·2	56·7	80·1	13·0	—	30·5

(R) Register not received. (*) Recorded at 0500 hrs. G.M.T. instead of 0300 hrs. G.M.T. (h) Mean of 29 days.

Relative humidity %			Cloud Amount Eighths of Sky.			PRECIPITATION						Wind velocity in 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.	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	
23	24	25	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
						Inches	Inches	Inches																								BALUCHISTAN (North)—Contd.
																																Nushki (R).
48	+4	37	0·0	—0·3	0·5	0·00	—0·09	0·00	...	0	—0·2	5·0	+1·3	0	0	0	24	1	0	0	0	5	0	2	0	0	0	0	0	28	0	Kalat
20	—14	17	0·0	—0·4	0·1	0·00	0·00	0·00	...	0	0·0	3·2	0·0	0	11	2	0	0	0	6	2	9	0	4	6	1	0	1	8	1	9	Dalbandin
18	—15	11	0·0	—0·2	0·0	0·00	0·00	0·00	...	0	0·0	8·8	+0·1	7	1	0	1	1	0	0	12	8	3	0	1	0	0	0	0	17	9	Nokkundi
																																BALUCHISTAN (South).
88	+7	59	2·4	—0·1	1·4	1·70	+1·12	1·70	22	1	+0·5	2·9	+0·5	0	0	0	1	8	1	0	1	19	0	0	2	2	25	1	0	0	0	Las Bela
87	+1	75	3·1	—1·8	1·3	0·80	+0·79	0·80	22	1	+1·0	11·0	+1·7	0	0	2	0	1	13	14	0	0	0	0	1	0	1	14	14	0	0	Ormora
89	+3	77	1·5	—1·8	1·0	0·00	0·00	0·00	...	0	0·0	7·1	+1·1	0	0	3	0	3	0	19	0	5	0	0	0	0	1	0	29	0	0	Pasni
72		42	0·0	...	0·0	0·00	...	0·00	...	0	...	5·0	...	0	1	1	0	1	2	17	4	4	2	0	1	0	5	8	14	0	0	Turbat
37	—16	23	0·5	—0·1	0·8	0·00	—0·04	0·00	...	0	—0·2	4·0	+0·6	3	13	4	1	0	0	5	4	0	1	4	0	0	0	1	1	23	0	Panjgur
																																SIND (Upper).
																																Reti (R)
77	+4	47	0·3	—0·2	0·9	0·64	+0·47	0·62	21	1	+0·7	6·2	+1·7	0	1	6	16	5	0	0	1	1	0	0	3	18	9	0	0	0	0	Jacobabad
76	+3	43	1·0	+0·6	1·4	0·62	+0·60	0·55	21	1	+0·9	2·9	—0·6	0	1	7	5	10	5	0	1	1	0	5	2	1	8	9	4	1	0	Sukkur
88		60	1·9	...	1·7	5·07	...	4·90	22	2	...	5·5	...	0	2	3	16	9	0	0	0	0	2	1	0	6	13	5	2	1	0	Pad Idan
																																SIND (Lower)
78		56	(e) 2·3	...	(e) 1·9	0·00	...	0·00	...	0	...	(f) 7·6	...	0	0	0	0	0	16	10	0	0	0	0	0	0	0	16	10	0	0	Umarkot
76	+4	49	1·0	—0·3	0·9	0·00	—0·63	0·00	...	0	—0·8	7·0	—0·3	0	0	0	0	0	25	1	0	4	1	0	0	1	0	0	26	2	0	Hyderabad
82		73	4·7	...	3·6	0·05	...	0·05	2	0	...	11·5	...	0	0	0	0	0	7	22	0	1	0	0	0	0	1	17	12	0	0	Karachi (Airport)
88	+2	81	4·5	+0·3	3·5	0·00	—0·52	0·00	...	0	—0·5	8·2	—0·5	0	0	0	0	0	5	19	4	2	0	0	0	0	0	13	17	0	0	Karachi (Manora)
80	+3	52	1·4	—1·5	0·9	0·00	—0·89	0·00	...	0	—0·9	6·1	...	0	0	0	0	0	15	15	0	6	0	0	0	0	1	10	16	1	2	Badin
																																HILL STATIONS (excluding Kashmir and Baluchistan)
73	+6	70	3·0	+0·8	4·0	5·12	—0·30	2·11	2	8	+0·8	4·4	+1·1	(b) 1	0	8	2	0	0	2	4	12	0	0	4	1	0	0	12	5	8	Murree
65	+2	43	1·3	—0·2	1·9	0·88	—1·19	0·56	2	2	—0·9	5·6	+1·5	8	0	0	1	19	0	2	0	0	3	0	1	0	26	0	0	0	0	Cherat
59	+1	41	1·7	+0·5	2·8	2·60	+1·91	2·25	26	3	+1·1	5·4	+2·2	0	3	0	3	0	0	0	0	24	0	0	0	1	0	28	1	0	0	Drosh
59	+3	51	0·9	—0·5	3·7	1·51	—0·60	0·40	21	5	0·0	3·1	+1·0	2	5	2	1	0	0	0	1	19	0	1	7	16	4	2	0	0	0	Parachinar
56	+2	56	0·5	—0·3	0·0	0·00	—0·49	0·00	...	0	—1·4	...	...																			Wana
																																AFGHANISTAN.
																																Jalalabad (R)
38	—3	20	0·1	—0·3	0·5	0·00	—0·04	0·00	...	0	—0·2	1·9	+0·3	2	0	1	0	2	3	9	8	5	9	12	4	3	1	0	0	1	0	Kabul
67	...	61	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	8	0	1	21	Kandahar

(c) Mean of 28 days only (e) Mean and frequencies of 26 days. (f) Mean of 25 days.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0400 HRS.

STATIONS.	Height of bar cistern above mean sea level in feet.	Pressure at Stations 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.		
		Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Mean 1130 hrs. G.M.T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 0230 hrs. G.M.T.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 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
IRAN.																					
Jask (R) ...	13																				
ARABIA.																					
Muscat	20	1002·8	...	1000·9	1003·3	1001·5	89·9	—1·8	98	29	82·4	—0·2	78	10	85·2	86·8	80·3	80·2	32·7	...	32·4
Kuwait (*) ...	16	1004·9	...	1002·1	1005·4	1003·0	98·4	...	111	35	79·9	...	76	27	82·4	95·4	73·4	83·1	23·7	...	33·0

(R) Register not received. (*) Recorded at 0500 hrs. G.M.T.

Relative humidity %			Cloud Amount (Tenths of sky)			PRECIPITATION						Wind velocity miles per hour.		Wind direction—Number of winds from :—																		STATIONS.
														0230 hrs. G.M.T.									1130 hrs. G.M.T.									
Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 hrs. G.M.T.	Mean 0230 hrs. G.M.T.	Departure from normal.	Mean 1130 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	
23	24	25	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
						Inches	Inches	Inches																								
																																IRAN.
																																Jask (R)
																																ARABIA.
80	...	75	0·0	—1·0	0·0	0·00	0·00	0·00	...	0	0·0	2·1	—0·7	1	5	1	1	1	1	1	7	12	0	2	0	1	0	1	0	2	24	Muscat
65	...	59	0·0	...	0·0	0·00	...	0·00	...	0	...	7·6	...	0	0	0	0	0	2	15	12	1	0	0	0	0	0	1	4	16	9	Kuwait (*)

*Instead of 0300 hrs. G.M.T.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS—SEPTEMBER, 1949.

STATION.	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature °F 0300 hrs. G.M.T.	Mean wet bulb temperature °F 0300 hrs. G.M.T.	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 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
																Inches	Inches	Inches					
EAST BENGAL (North).																							
Pabna	90·5	—0·3	97	20	...	...	...	...	84·6	80·7	34·3	+1·0	84	+3	...	8·19	—0·18	1·46	12	14	+2·9	...	...
KASHMIR																							
Jammu (x)																							
Kargil (x)																							
IRAN.																							
Zahidan																							

(x) Data not available.

TABLE V—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 5TH CLASS STATIONS—SEPTEMBER, 1949.

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
		Inches	Inches	Inches			
EAST BENGAL (North)							
	Rajshahi (R)						
	Sirajganj	11·19	+1·50	2·75	28	12	+0·2
	Rangpur	9·27	—4·83	1·99	29	12	—0·9
KASHMIR							
	Sonemarg (x)						
	Gurez (x)						
BALUCHISTAN (North)							
	Harnai	0·00	—0·94	0·00	...	0	—1·4

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

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PAKISTAN

MONTHLY WEATHER REVIEW, 1949

Monthly Weather Report

October

PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN.

Chief Features:—(1) Five feeble western disturbances affected West Pakistan.

(2) Monsoon was active in East Pakistan during the second and the third weeks and again towards the end of the month.

West Pakistan—A western disturbance passing across the extreme north of West Pakistan towards the end of the month caused local thunder showers in the northwest Punjab and the hills of the upper North-West Frontier Province. Drosh reported 1" of rain on the 29th.

Weather was mainly dry in West Pakistan during the rest of the month except for occassional isolated thunderstorms in the extreme north of the country due to the passage of four western disturbances between the 19th and the 23rd.

There was no rainfall over the plains of West Pakistan outside the northwest Punjab where also the total rainfall during the month was in large defect.

The mean maximum temperature was normal in the northwest Punjab, the lower North-West Frontier Province and lower Sind and below normal elsewhere. The mean minimum temperature was normal in the region outside north Baluchistan and lower Sind where it was below normal. The mean relative humidity was normal over West Pakistan ; Skies were less clouded than usual in the region outside northwest Punjab where they were normally clouded.

East Pakistan.—A few thunderstorm/showers occurred over East Pakistan during the first week owing to the east-ward passage of a low pressure wave across the sub-Himalayan West Bengal. A depression in the northeast Bay of Bengal on the 8th crossed Orissa coast on the 9th. This resulted in the influx of moist air into East Pakistan which continued throughout the second and the third week and caused local to fairly widespread rain/thunder showers in East Pakistan during this period. The Weather became dry on the 23rd. However a cyclonic storm from the south Bay of Bengal which crossed the Circars Coast on the 28th and thereafter moved in north-northeasterly direction filled up over Bihar on the 31st. This again caused incursion of moist air into East Pakistan resulting in fairly widespread thundershowers during the last three days of the month.

Some of the noteworthy amounts of rainfall during the month were :—Comilla 4" on the 7th and 3" on the 13th; Brahmanbaria 2" on the 17th Khulna and Narayanganj 2" each on the 18th ; Mymensingh 3" on the 19th ; Brahmanbaria and Narayanganj 2" each on the 20th ; Dinajpur 1½" on the 30th ; and Rangpur 3" and Dinajpur 1½ on the 31st.

The total rainfall during the month was normal over the northern sub-division, in slight defect over the deltaic sub-division and in moderate defect over the eastern sub-division. Averaged over the region, it was in slight defect.

The mean maximum temperature was above normal in the northern sub-division and normal elsewhere. The mean minimum temperature was above normal over the region outside the deltaic sub-division where it was normal. The mean relative humidity was normal over the region. Skies were normally clouded over the eastern sub-division and more clouded than usual over the rest of the Region.

Table 1 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—OCTOBER, 1949.

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.		Degree.	Degree.	mb.	%	
1. East Bengal	4·72	5·51	—0·79	—14	+1·3	+2·2	+2·1	+2	+0·7
Mean of East Pakistan	4·72	5·51	—0·79	—14	+1·3	+2·2	+2·1	+2	+0·7
2. West Punjab	0·03	0·23	—0·20	—87	—1·5	0·0	—1·3	+2	—0·1
3. N.W.F.P.	0·00	0·10	—0·10	—100	—1·9	—0·5	—0·8	—5	—0·5
4. Baluchistan	0·00	0·06	—0·06	—100	—4·1	—3·1	—0·9	+1	—0·6
5. Sind	0·00	0·02	—0·02	—100	—2·5	—1·9	—2·0	—1	—0·5
Mean of West Pakistan excluding Baluchistan	0·01	0·14	—0·13	—93	—1·9	—0·7	—1·5	0	—0·3
SUB-DIVISION.									
1. East Bengal (North)	4·86	4·76	+0·10	+2	+2·0	+2·7	+2·0	+1	+1·0
2. East Bengal (East)	4·91	6·92	—2·01	—29	+1·1	+2·5	+1·9	+3	+0·6
3. East Bengal (Deltaic)	4·35	4·87	—0·52	—11	+1·0	+1·7	+2·4	+2	+0·7
4. Kashmir*									
5. North West Punjab	0·05	0·29	—0·24	—83	—1·1	+0·2	—0·9	+4	0·0
6. South West Punjab	0·00	0·07	—0·07	—100	—2·2	—0·7	—2·2	—3	—0·3
7. N.W.F.P. (Upper)	0·00	0·23	—0·23	—100	—2·1	—0·8	—0·5	—3	—0·7
8. N.W.F.P. (Lower)	0·00	0·06	—0·06	—100	—1·8	—0·4	—0·9	—5	—0·5
9. Baluchistan (North)	0·00	0·09	—0·09	—100	—4·5	—3·7	—0·3	+4	—0·3
10. Baluchistan (South)	0·00	0·01	—0·01	—100	—3·3	—1·7	—1·9	—3	—1·1
11. Sind (Upper)	0·00	0·02	—0·02	—100	—5·0	+0·7	—1·9	+3	—0·3
12. Sind (Lower)	0·00	0·03	—0·03	—100	—0·9	—2·8	—2·0	—3	—0·7

*Data incomplete.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G. M. T.

STATIONS.	Height of bar. cistern above mean sea level in feet.	Pressure at Stations level in millibars.			Pressure at M.S.L.		Maximum temperature. OF				Minimum temperature. OF				Dry bulb temperature. OF		Wet bulb temperature. OF		Vapour pressure Mill bars.		
		Mean 03·00 hrs. G. M. T.	Departure from normal	Mean 12·00 hrs. G. M. T.	Mean 03·00 hrs. G. M. T.	Mean 12·00 hrs. G. M. T.	Mean.	Departure from normal.	Heighest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Mean 03·00 hrs. G.M.T.	Mean 12·00 hrs. G.M.T.	Mean 03·00 hrs. G.M.T.	Mean 12·00 hrs. G.M.T.	Mean 03·00 hrs. G.M.T.	Departure from normal	Mean 12·00 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
EAST BENGAL (North).																					
Bogra	63	1008·1	—1·4	1004·9	1010·3	1007·1	89·2	+1·4	93	4 days	76·0	+2·9	70	22	81·2	84·4	77·6	78·1	30·6	+2·0	29·3
Dinajpur	123	1006·7	—0·8	1002·6	1010·9	1006·8	90·6	+3·2	94	7	74·6	+2·5	67	22,23	82·3	84·3	77·5	78·1	29·4	+1·9	30·0
EAST BENGAL (East).																					
Cox's Bazar ...	38	1009·3	—1·0	1006·1	1010·6	1007·4	87·9	+0·8	91	4 days	76·0	+2·4	73	13,22	83·3	81·8	78·5	77·7	30·5	+0·2	30·9
Chittagong ...	87	1007·6	—1·2	1004·1	1010·6	1007·1	88·7	+1·8	92	5,25,26	75·6	+2·2	71	13, 22,23	83·2	82·4	78·2	77·6	30·5	+0·9	29·4
Comilla	29	1009·1	—1·7	1006·2	1010·1	1007·2	89·3	+1·1	93	7,9	76·2	+2·8	71	7,24	82·5	83·6	78·5	79·1	32·0	+2·0	32·4
Narayanganj ‡ ...	26	1009·5	—1·4	1006·1	1010·4	1007·0	91·3	+3·1	95	7,10	76·7	+1·4	71	20	8·45	87·0	78·8	78·0	31·9	+2·8	30·0
Brahmanbaria ...	32	1009·6	...	1005·6	1010·7	1006·7	89·0	—0·2	94	7	77·0	+2·8	73	21,24	83·8	83·9	78·9	79·0	31·6	+2·4	31·6
Srimangal	69	1008·6	—1·5	1004·6	1010·8	1007·0	87·8	—1·2	93	1,9,12	72·7	+2·5	66	22,23	78·6	82·6	76·5	79·1	30·8	+2·4	32·8
Mymensingh ...	62	1008·9	—1·1	1005·4	1011·1	1007·6	91·6	+4·5	98	15	76·5	+2·6	72	23	83·4	86·4	79·4	81·0	32·0	+3·2	33·1
EAST BENGAL (Deltaic).																					
Faridpur	46	1008·8	—1·0	1005·5	1010·4	1007·1	86·4	—0·9	90	7,11	76·3	+2·2	71	23	83·7	82·3	78·7	77·8	31·6	+2·4	30·2
Barisal	11	1009·7	—1·3	1006·7	1010·1	1007·1	80·3	+2·7	93	9,10	76·3	+1·4	71	20	84·0	85·5	79·2	79·2	31·6	+1·4	30·3
Khulna	16	1010·3	—0·9	1006·7	1010·8	1007·3	89·6	+1·5	93	21	76·7	+1·7	71	23	84·2	83·4	78·4	78·0	30·0	+1·5	29·7
Jessore	26	1009·6	—1·2	1006·1	1010·5	1007·0	90·5	+1·5	95	7,11	74·5	+2·0	67	23	83·6	82·6	79·2	78·1	32·4	+3·4	31·3
Satkhira	16	1010·6	—0·5	1009·2	1011·1	1009·7	89·8	+0·1	94	7,23	75·3	+1·2	68	23	83·9	85·0	79·3	78·9	32·4	+3·1	31·1

AND 1200 HRS. G. M. T.—OCTOBER, 1949.

Relative humidity %			Cloud Amount (Eighths of Sky).			Precipitation.						Wind velocity ~~miles~~ Knots per hour.		Wind direction—Number of winds from :—																		STATIONS.
														0300 hrs. G.M.T.									12·00 hrs. G.M.T.									
Mean 03·00 hrs. G.M.T.	Departure from normal	Mean 12·00 hrs. G.M.T.	Mean 03·00 hrs. G.M.T.	Departure from normal.	Mean 12·00 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.	
23	24	25	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).
84	+4	74	4·5	+1·9	4·1	2·86	—2·27	1·20	15	4	—1·5	1·7	+0·6	0	5	9	1	0	4	0	6	6	0	1	2	1	2	3	0	1	21	Bogra
80	—1	75	2·7	+0·1	2·2	5·84	+1·09	1·64	30	8	+3·5	1·9	+0·7	0	7	4	0	1	0	0	0	19	0	1	1	0	1	0	0	0	28	Dinajpur ?
																																EAST BENGAL (East).
80	0	83	3·0	—0·4	3·7	5·44	—1·72	1·19	13	8	+0·5	1·0	—0·7	2	0	0	2	1	0	0	0	26	0	0	1	0	1	0	0	1	28	Cox's Bazar
79	—4	80	4·1	+0·5	4·1	2·31	—4·78	1·15	13	5	—2·0	2·4	—0·7	3	7	3	1	1	0	2	3	11	1	1	1	1	4	11	6	2	4	Chittagong
84	+8	82	3·8	+1·0	4·3	5·81	—0·91	3·30	13	8	+1·4	2·4	+0·8	4	0	1	8	8	3	1	2	4	3	0	3	3	5	1	1	1	14	Comilla
78	+1	77	3·0	—0·4	3·2	7·08	+1·81	2·15	18	10	+4·0	1·8	+0·3	4	0	6	0	10	1	8	0	2	1	0	1	0	9	1	5	1	13	Narayanganj‡
80	+4	80	4·0	+0·9	2·8	5·01	—1·33	2·08	20	6	—0·9	2·4	...	1	1	3	4	13	1	1	1	6	2	1	0	3	7	1	0	3	14	Brahmanbaria
91	+7	86	4·6	+1·4	4·1	6·66	—0·40	2·17	2	13	+4·9	1·5	—0·2	1	0	5	2	9	0	1	0	13	2	2	1	1	4	1	2	0	18	Srimangal
83	+2	80	3·7	+0·2	2·9	4·26	—2·06	3·16	19	6	—0·1	3·4	+2·5	0	0	0	6	0	0	0	0	25	0	0	0	4	0	0	0	0	27	Mymensingh
																																EAST BENGAL (Deltaic).
79	+3	80	4·3	+1·9	4·5	3·74	—1·11	1·25	20	8	+2·4	2·5	+0·5	5	5	0	4	7	3	1	1	5	2	1	1	4	7	1	0	2	13	Faridpur
81	+2	75	3·8	+0·8	4·1	2·98	—3·16	1·65	20	4	—2·9	2·2	+0·9	0	0	0	8	2	3	0	1	17	0	0	0	2	1	2	0	1	25	Barisal
76	+2	78	2·7	—0·7	3·3	3·28	—0·98	1·40	17	4	—2·2	2·1	+0·4	0	1	6	1	3	1	1	0	18	0	0	7	2	3	1	4	0	14	Khulna
81	+3	82	2·7	—0·1	3·6	8·82	+4·23	2·48	20	9	+3·2	2·1	+0·9	5	5	0	3	5	3	1	2	7	1	2	0	3	5	1	0	0	19	Jessore
78	0	75	4·3	+1·4	4·6	2·91	—1·39	0·88	28	4	—1·7	2·1	+1·1	1	5	1	7	0	8	3	4	2	2	1	0	2	5	3	5	1	12	Satkhira.

‡ Data received late.

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

STATIONS.	Height of Bar. cistern above sea level.	Pressure at station level, in millibars			Pressure M. S. L., millibars		Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure, millibars		
		Mean 3 hrs. G.M.T.	Departure from normal.	Mean 12 hrs. G.M.T.	Mean 3 hrs. G.M.T.	Mean 12 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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
BALUCHISTAN (North)																					
Fort Sandeman	4614	860·5	—0·6	859·0	900·4	897·1	81·0	—1·6	92	5	52·2	—0·7	37	29	57·5	78·5	51·1	71·9	9·9	+4·0	24·6
Hindubagh	5909	822·7	...	819·8	794·1	791·6	77·4	...	90	13	43·2	...	31	28	54·2	71·2	39·1	48·3	2·8	...	3·6
Loralai	4699	858·9	...	855·0	900·9	896·0	79·0	...	87	12,13	46·4	...	31	30	57·9	74·7	45·0	56·8	5·0	...	8·5
Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sibi	441	995·7	+0·5	992·0	1011·2	1006·7	95·2	—2·4	104	14	63·9	—1·6	46	30	69·7	92·8	57·4	68·1	10·9	+1·3	12·4
Quetta	5490	833·9	—2·2	831·4	797·0	796·5	71·5	...	85	8	36·1	...	22	29	44·8	69·3	41·6	60·9	8·0	+1·9	14·9
Quetta (Samungli)	5253	844·2	...	841·7	799·7	799·5	73·0	...	86	8	33·6	...	17	29	43·5	70·0	37·6	52·2	5·5	...	6·9
Chaman	4311	872·0	+0·5	870·8	902·3	900·1	74·4	—5·4	90	3,4,5	49·5	—4·0	34	29	58·2	71·6	45·2	53·0	5·0	—0·9	6·2
Nushki	3412	904·5	...	903·6	906·1	905·3	79·6	...	95	5	55·8	...	43	29	61·7	78·0	53·5	60·8	11·0	...	11·2
Kalat	6616	802·2	—0·2	800·6	799·6	798·0	69·7	—5·6	82	6	33·9	—7·1	19	28,29,30	42·2	65·0	34·8	48·5	4·1	—1·8	5·7
Dalbandin	2785	920·3	+1·3	917·5	901·5	899·7	83·1	—5·9	97	4,8	46·7	—4·2	30	28	53·3	40·1	80·7	57·1	3·0	—2·8	6·7
Nokkundi	2229	938·5	...	932·6	1016·3	1009·7	85·9	—6·3	100	4	55·4	—4·7	41	30	60·7	83·3	45·8	57·4	4·5	—3·5	5·7
BALUCHISTAN (South)																					
Las Bela	292	1001·9	+0·2	998·0	1012·1	1007·8	94·4	—5·3	106	14	63·3	0·0	43	30	71·7	93·4	64·5	79·7	17·9	—0·8	28·8
Ormara	15	1011·2	...	1008·3	1011·7	1008·8	89·1	—0·1	96	14,18	69·4	—1·4	55	31	75·6	85·2	68·2	72·0	20·4	—2·2	21·6
Pasni	10	1011·0	—0·8	1009·0	1012·0	1008·0	89·8	—0·7	95	2	63·5	—3·8	51	30,31	70·1	84·9	65·4	75·9	19·3	—2·4	27·4
Turbat	510	977·2	...	994·7	1014·3	1010·3	98·7	...	105	14	70·5	...	49	30	77·6	88·5	62·9	70·7	14·1	...	18·1
Panjgur	3177	906·2	—0·2	904·5	900·8	898·4	80·0	—7·6	92	4	×	...	...	...	57·6	77·8	45·8	54·5	5·6	—2·2	5·1
SIND (Upper)																					
Reti (R)	280	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jacobabad	183	1004·5	0·0	1001·4	1011·0	1007·7	93·6	—3·9	100	12,13,14	66·3	—0·7	50	29	70·4	91·3	61·1	68·6	14·3	—2·1	13·6
Sukkur	221	1002·9	—0·5	998·9	1010·7	1007·4	89·9	—6·1	99	9	...	...	...	...	68·8	89·4	62·0	67·4	15·8	—1·8	12·4
Padidan	153	1005·6	...	1003·1	1011·1	1008·2	93·2	...	100	4 days	60·4	...	45	28,30	67·1	90·3	62·1	69·2	12·4	...	14·7
SIND (Lower)																					
Umerkot	55	1007·7	...	1005·0	1009·6	1006·8	93·1	...	99	14	65·3	...	49	31	75·7	90·2	67·9	74·3	19·6	...	21·4
Hyderabad	96	1006·2	—1·6	1005·1	1009·9	1008·2	94·5	—3·3	103	18,19	67·3	—2·9	52	31	71·8	91·0	64·5	68·4	17·3	—1·2	13·6
Karachi (A. P.)	73	1008·8	...	1006·0	1011·3	1008·5	92·7	...	98	3,18,19	65·0	...	50	30	72·1	86·9	62·5	69·1	13·2	...	14·7
Karachi (Manora)	13	1010·7	—0·6	1008·2	1011·2	1008·6	87·5	+0·2	94	2	72·1	—1·6	61	31	74·2	82·5	67·6	74·3	22·5	—1·9	25·3
Badin	31	1009·8	—0·4	1006·8	1010·9	1007·8	96·5	+0·5	103	11,21	66·1	—3·8	48	30	72·5	92·3	65·5	70·2	18·3	—3·0	15·9
HILL STATIONS (excluding Kashmir and Baluchistan).																					
Murree	7113	786·2	—0·9	785·5	797·8	797·1	66·7	—0·9	75	7	48·5	—0·8	38	29	55·2	58·7	45·6	49·1	7·0	—0·7	8·5
Cherat	4272	870·8	—0·8	869·8	899·9	897·9	75·8	—0·8	86	12	58·4	0·0	43	28	62·3	72·4	49·9	54·6	6·4	—2·5	7·4
Drosh	4806	856·9	...	853·2	903·2	898·0	73·9	—2·8	89	12	52·4	—0·8	38	29,30	54·1	69·1	45·8	50·4	7·2	—0·7	5·0
Parachinar	5673	827·4	—1·5	826·3	797·7	796·6	73·8	—0·4	83	13	48·9	+0·2	34	29	54·8	68·1	44·7	52·1	6·4	—0·6	7·9
Wana	4456	...	...	...	...	...	...	...	...	...	47·2	+0·2	33	28	61·4	73·1	51·6	64·3	9·2	+2·7	16·9
AFGHANISTAN																					
Jalalabad	1950	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kabul	5955	822·6	...	820·0	800·4	798·6	72·9	—0·4	86	4	41·1	—0·3	27	29	49·7	67·8	38·4	49·2	3·9	—0·8	5·2
Kandahar	3462	903·9	...	901·1	901·6	904·6	79·0	...	95	7,8	38·2	...	25	27	45·9	72·8	41·3	58·9	7·1	...	11·4

(R) Register not received.

AND 1200 HRS. G. M. T. FOR THE MONTH OF OCTOBER, 1949

Relative humidity. %			Cloud Amount (Eighths of Sky.)			Precipitation, inches.						Wind velocity, knots		Wind direction—No. of winds from :— 0300 hrs. G.M.T.									1200 hrs. G.M.T.									STATION.
Mean 3 hrs. G.M.T.	Departure from normal.	Mean 12hrs. G.M.T.	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.	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.	
23	24	25	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
																																BALUCHISTAN (North)
62	+13	74	0·1	—0·5	0·2	0·00	—0·10	0·00	...	0	—0·2	×	...	0	0	0	0	0	0	0	0	31	0	0	0	0	0	3	2	0	26	Fort Sandeman
21	...	14	0·0	...	0·1	0·00	...	0·00	...	0	...	6·8	...	1	1	0	0	0	8	17	4	0	0	0	1	3	1	18	6	2	0	Hindubagh
40	...	32	0·0	...	0·2	0·00	—0·11	0·00	...	0	—0·3	3·9	...	1	1	4	2	2	2	8	1	10	0	1	4	4	3	1	2	1	15	Loralai
...	...	...	...	...	...	0·00	—0·23	0·00	...	0	—0·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Harnai
41	+7	23	0·0	...	0·1	0·00	0·00	0·00	...	0	0·0	3·0	+0·7	2	2	1	1	0	1	2	4	18	0	0	2	2	2	11	10	2	2	Sibi
76	+27	62	0·0	—0·5	0·1	0·00	...	0·00	...	0	...	2·5	+1·0	3	5	0	6	1	1	2	0	13	3	2	0	0	0	3	12	10	1	Quetta
61	...	29	0·1	...	0·3	0·00	...	0·00	...	0	...	4·0	...	0	0	7	3	0	1	1	2	17	2	1	0	1	0	1	7	18	1	Quetta (Samungli)
36	+3	29	0·2	—0·4	0·0	0·00	—0·16	0·00	...	0	—0·2	×	...	1	0	0	2	1	1	0	1	25	0	0	0	0	3	5	10	5	8	Chaman
58	...	38	0·1	...	0·0	0·00	...	0·00	...	0	...	6·0	...	8	7	1	11	0	0	0	0	4	15	16	0	0	0	0	0	0	0	Nushki
54	+9	29	0·0	—0·4	0·0	0·00	—0·09	0·00	...	0	—0·2	3·8	0·0	0	0	0	15	12	0	0	0	4	0	0	0	0	0	0	0	31	0	Kalat
22	—16	28	0·9	+0·3	0·8	0·00	—0·02	0·00	...	0	—0·1	3·4	+0·8	3	2	3	0	0	0	1	2	20	0	7	7	0	1	1	0	1	14	Dalbandin
27	—17	19	0·2	—0·4	0·0	0·00	0·00	0·00	...	0	0·0	7·3	+2·1	9	1	2	1	1	0	1	7	9	1	0	1	1	5	1	0	15	7	Nokkundi
																																BALUCHISTAN (South)
65	+3	54	0·6	—0·8	0·2	0·00	—0·01	0·00	...	0	0·0	2·3	+0·4	7	1	0	0	0	1	0	7	15	1	0	2	1	17	2	1	4	3	Les Bela
70	—9	56	0·6	—1·4	0·1	0·00	0·00	0·00	...	0	0·0	6·4	—0·9	2	3	11	3	0	3	5	0	4	0	0	0	1	5	12	13	0	6	Ormara
71	—7	65	0·0	—1·7	0·0	0·00	0·00	0·00	...	0	0·0	6·1	+1·0	1	10	1	0	0	0	9	4	6	0	4	0	0	3	5	18	0	1	Pasni
44	...	27	0·0	...	0·0	0·00	...	0·00	...	0	...	7·5	...	0	13	4	0	0	1	3	2	8	1	14	4	0	1	5	4	1	1	Turbat
49	+3	28	0·0	—0·4	0·0	0·00	—0·01	0·00	...	0	—0·1		...	2	21	5	0	1	0	1	1	0	1	5	0	0	0	5	3	17	0	Panjgur
																																SIND (Upper
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Reti (R)
55	+7	28	0·0	—0·3	0·0	0·00	—0·03	0·00	...	0	—0·1	4·5	+1·7	2	3	3	6	4	1	1	8	3	0	0	0	9	4	5	4	5	4	Jacobabad
65	+6	27	0·0	—0·2	0·0	0·00	—0·01	0·00	...	0	0·0	2·2	—0·3	3	5	2	7	3	4	0	1	6	7	4	0	0	1	4	8	6	1	Sukkur
74	...	30	0·0	...	0·0	0·00	...	0·00	...	0	...	3·2	...	6	1	2	6	4	1	2	2	7	11	1	0	2	8	1	0	3	5	Padidan
																																SIND (Lower)
65	...	42	0·0	...	0·0	0·00	...	0·00	...	0	...	2·9	...	8	1	2	1	5	5	5	1	3	11	1	1	0	3	2	7	3	3	Umerkot
64	+3	26	0·0	—0·5	0·0	0·00	—0·03	0·00	...	0	—0·1	3·3	—1·1	6	1	0	0	0	14	3	2	4	6	1	1	0	0	18	0	2	3	Hyderabad
54	...	39	0·7	...	0·4	0·00	...	0·00	...	0	...	5·3	...	5	3	0	0	0	2	6	1	14	0	1	3	0	1	12	13	1	0	Karachi (A. P.)
69	—11	67	0·9	—0·5	0·6	0·00	—0·02	0·00	...	0	—0·1	4·7	—1·0	4	5	0	0	0	4	5	1	12	0	0	0	0	0	10	19	1	1	Karachi (Manora)
66	—2	30	0·0	—1·0	0·0	0·00	—0·03	0·00	...	0	—0·1	3·2	...	9	2	2	0	0	4	8	2	4	6	6	1	1	2	1	6	3	5	Badin
																																HILL STATIONS (excluding Kashmir and Baluchistan).
48	+2	50	1·2	+0·1	1·1	0·81	—0·75	0·29	23	4	+1·3	5·7	+2·1	0	0	7	5	0	0	5	6	8	0	0	0	5	0	0	10	4	12	Murree
41	—7	30	0·4	—0·5	0·9	0·35	—0·21	0·25	21	2	+0·7	8·3	+3·2	19	0	0	0	11	0	0	0	1	11	0	0	0	19	0	0	0	1	Cherat
52	—5	26	1·8	+0·4	2·8	2·26	+0·99	1·15	29	6	+2·9	3·4	+1·4	0	0	1	1	0	1	0	0	28	0	6	0	7	0	16	0	0	2	Drosh
45	0	34	0·2	—0·7	1·9	0·01	—0·94	0·01	19	0	—2·5	3·3	+1·1	3	0	0	0	0	0	0	1	27	0	2	7	15	4	0	1	1	1	Parachinar
49	+3	61	0·0	—0·3	0·0	0·00	—0·12	0·00	...	0	—0·3	2·0	...	1	0	0	0	0	0	0	0	30	11	0	1	2	0	0	4	8	5	Wana
																																AFGHANISTAN
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Jalalabad
34	—12	24	0·4	—0·5	1·3	0·90	—0·40	0·00	...	0	—0·8	2·4	+0·6	1	1	1	1	9	8	4	5	1	4	6	6	5	1	1	0	2	6	Kabul
67	...	41	0·0	...	0·0	0·00	...	0·00	...	0	...	1·3	...	0	0	0	0	0	0	0	0	31	0	0	0	0	0	10	0	0	21	Kandahar.

×Data not available.

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

STATIONS.	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 %		
	Hieght of bar. above mean sea level in feet.	Mean 3 hrs. G.M.T.	Departure from normal.	Mean 12 hrs. G.M.T.	Mean 3 hrs. G.M.T.	Mean 12 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. M.G.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 12 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
KASHMIR																								
Srinagar ×	5205																							
Gulmarg ×	8709																							
Dras ×	10059																							
Leh ×	11529																							
Skardu ×	7505																							
Gilgit ×	4890																							
Misgar	10190	701·0	...	698·3	704·6	701·9	55·3	...	71	9	30·0	...	22	16,22	37·0	49·0	30·0	35·4	3·5	...	2·9	49	...	27
NORTH PUNJAB																								
Lahore	702	985·9	—0·9	983·7	1010·7	1007·4	92·3	—1·7	100	15	61·1	+1·3	47	31	70·7	87·9	59·1	68·7	12·1	—3·8	15·4	59	+4	34
Sialkot	830	982·0	—0·9	979·0	1010·9	1007·1	*	...	...	...	65·5	+3·4	53	30,31	71·8	84·1	63·1	68·8	16·0	+0·2	17·2	59	—3	43
Jhelum	765	984·4	...	981·0	1011·2	1007·3	91·6	...	98	13	59·2	...	48	27,31	68·5	86·3	61·0	68·9	14·9	...	16·1	63	...	37
Rawalpindi	1674	953·4	—1·4	951·4	1011·5	1007·6	89·2	+0·6	99	5	57·0	0·0	44	31	64·9	81·5	57·5	63·4	12·9	+0·1	12·6	63	+11	34
Khushab	616	988·8	—1·4	986·4	1010·4	1007·2	92·3	—1·3	101	13	59·8	—3·6	45	31	68·3	89·3	59·3	66·7	13·2	—0·2	12·2	55	+3	28
Lyallpur	605	988·9	—1·3	986·5	1010·2	1007·0	91·3	—1·9	99	12,13,15	62·5	+0·1	47	30	67·7	87·0	59·8	67·8	13·9	—0·7	14·6	61	+6	34
SOUTH PUNJAB																								
Montgomery ...	558	991·3	—0·2	988·5	1010·8	1007·3	92·8	—2·2	103	14	62·3	—1·2	51	30	72·3	89·8	60·9	67·5	12·9	—3·4	12·9	49	—11	27
Multan (R)	413																							
Fort Abbas (R) ...	475																							
Bhawalpur	384	997·1	—0·8	994·5	1010·6	1007·5	93·4	—2·2	101	14,15,16	62·3	—0·2	49	31	70·5	90·3	62·3	70·4	15·5	—1·0	16·2	61	+6	33
Khanpur (R) ...	297																							
N.W.F.P. (North)																								
Chakdara	2197	936·1	...	932·6	1012·8	1006·3	83·5	...	91	4 days	56·2	...	45	31	62·3	80·4	54·9	62·4	11·7	...	12·0	60	...	35
Peshawar	1175	971·2	—0·8	968·4	1012·2	1007·8	85·7	—2·1	93	8	59·7	—0·8	47	29	67·6	83·1	57·3	63·5	11·4	—0·5	11·1	49	—3	30
Landikotal ...	3503																							
N.W.F.P. (South)																								
Bannu	1264	967·1	...	964·3	1010·9	1006·7	89·1	—1·5	97	8	62·0	+0·1	48	29	68·8	85·6	57·8	64·1	11·4	—0·9	10·7	47	—4	25
Miranshah	3026	908·5	...	906·9	897·2	896·7	82·6	—1·0	91	9,12	58·5	+0·2	44	29	64·3	79·8	51·9	66·1	8·2	+1·0	16·6	39	—4	29
D. I. Khan	570	990·6	—0·8	987·9	1010·7	1007·1	90·5	—2·8	99	7	60·3	—1·4	47	31	67·0	88·8	58·0	73·1	12·4	—2·9	20·8	54	—7	31

(R) Register not received. (x) Data not available. (a) Mean of 30 days. (*) Data rejected

AND 1200 HRS. G. M. T. FOR THE MONTH OF OCTOBER, 1949.

Cloud Amount (Eighths of Sky.)			Precipitation, inches.						Wind velocity, knots		Wind direction—No. of winds from :—																		Station.
											0300 hrs. G.M.T.									12'00 hrs. G.M.T.									
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.	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
																													KASHMIR
																													Srinagar ×
																													Gulmarg ×
																													Dras ×
																													Leh ×
																													Skardu ×
																													Gilgit ×
3·3	...	4·7	0·00	...	0	...	0	...	4·0	...	2	1	3	0	1	0	6	0	18	0	0	17	0	2	0	10	0	2	Misgar
																													NORTH PUNJAB
0·5	—0·1	0·0	0·00	—0·24	0·00	...	0	—0·5	1·9	+0·9	2	1	1	3	1	0	1	1	21	4	0	0	1	0	0	5	3	18	Lahore
1·2	+0·6	0·5	0·03	—0·31	0·03	28	0	—0·8	1·7	+0·6	1	6	7	3	3	1	1	4	5	1	0	0	0	1	2	1	6	20	Sialkot
0·7	...	0·5	0·00	...	0·00	1,17,28	0	...	1·6	...	3	0	1	1	1	0	1	2	22	1	0	1	1	2	5	2	0	19	Jhelum
0·8	—0·1	0·7	0·20	—0·40	0·15	1	1	—0·4	2·0	+0·8	0	11	0	0	1	1	2	2	14	0	0	0	0	2	2	6	1	20	Rawalpindi
0·5	—0·1	0·3	0·00	—0·15	0·00	...	0	—0·4	(a) 4·0	+1·1	1	6	5	2	3	0	1	1	12	3	3	3	12	4	1	2	0	3	Khushab
0·4	—0·3	0·1	0·00	—0·12	0·00	...	0	—0·4	1·1	—0·3	3	1	0	2	6	3	1	3	12	2	0	0	0	1	5	2	1	20	Lyallpur
																													SOUTH PUNJAB
0·3	—0·1	0·2	0·00	—0·08	0·00	...	0	—0·3	1·0	—1·3	0	0	0	4	0	6	1	1	19	1	0	1	4	0	3	2	0	20	Montgomery
																													Multan (R)
																													Fort Abbas (R)
0·0	—0·4	0·0	0·00	—0·06	0·00	...	0	—0·2	2·1	+0·1	3	0	0	0	3	7	1	0	17	2	0	0	0	0	7	0	0	22	Bahawalpur
																													Khanpur (R)
																													N.W.F.P. (Upper)
0·8	...	0·4	0·45	...	0·45	29	1	...	3·9	...	0	0	0	1	0	14	1	13	2	0	12	4	7	0	0	0	4	4	Chakdara
0·3	—0·7	1·5	0·00	—0·23	0·00	...	0	—0·6	2·6	+1·5	0	0	1	1	3	2	0	1	23	6	9	1	0	0	0	0	6	9	Peshawar
																													Landikotal ×
																													N.W.F.P. (Lower)
0·0	—0·6	0·6	0·01	—0·03	0·01	29	0	—0·1	3·0	...	1	0	0	0	1	0	11	7	11	0	4	9	8	7	0	0	2	1	Bannu
0·1	—0·4	0·9	0·00	—0·03	0·00	...	0	0·0	4·7	+0·8	3	2	2	0	0	0	1	4	19	1	3	14	13	1	0	0	0	0	Miranshah
0·0	—0·5	0·0	0·00	—0·11	0·00	...	0	—0·3	1·7	+0·9	5	8	2	0	0	0	3	2	11	1	4	2	0	1	0	0	0	23	D. I. Khan

TABLE III.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 G.M.T. AND 1200 HRS

STATIONS	Height of bar. cistern above mean sea level in feet.	Pressure at Stations 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.	Height.	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
IRAN.																								
Jask (R)	13																							
ARABIA																								
Muscat	20	1012·2	...	1010·3	1012·7	1010·8	86·4	—4·6	96	17	77·7	—2·2	70	31	80·2	83·4	71·8	73·6	22·5	...	23·6	65	...	61
Kuwait*	16	1013·6	...	1011·3	1014·1	1011·8	89·9	...	100	1	69·5	...	63	30	75·1	86·3	63·2	71·6	14·3	...	19·9	48	...	47

(R) Register not received

* Recorded at 0500 hrs. GMT instead of 0300 hrs. GMT

G. M. T. FOR THE MONTH OF OCTOBER, 1949.

Cloud Amount (Eighths of Sky.)			Precipitation						Wind velocity, ~~miles~~ knots per hour.		Wind direction—No. 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
																													IRAN
																													Jask (R)
																													ARABIA
0·0	—0·6	0·0	0·00	—0·14	0·00	...	0	—0·2	3·3	+0·5	0	0	0	1	1	1	9	12	7	1	0	0	2	0	0	0	11	17	Muscat.
0·0	...	0·1	0·00	...	0·00	...	0	...	3·9	...	0	0	0	0	1	1	20	3	6	1	0	5	4	0	0	4	3	14	Kuwait.*

TABLE IV.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS—OCTOBER, 1949.

STATIONS.	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature 0300 hrs. G.M.T.	Mean wet bulb temperature 0300 hrs. G.M.T.	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 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 BENGAL (North)																							
Pabna	91·8	+1·5	96	1,12	...	...	...	...	84·2	79·1	31·6	+2·2	79	+1	...	3·98	—0·41	1·82	16	6	+0·5	...	...
KASHMIR																							
Jammu*																							
Kargil*																							
IRAN																							
Zahidan																							

*Data not available.

TABLE V.—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G. M. T. AT 5TH CLASS STATIONS—OCTOBER, 1949.

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 BENGAL (North)							
	Rajshahi (R)						
	Sirajganj	5·80	+1·09	2·80	1	5	
	Rangpur	5·81	—0·01	2·78	31	6	+
KASHMIR							
	Sonamarg*						
	Gurez*						
BALUCHISTAN (North)							
	Harnai	0·00	—0·23	0·00	...	0	—0·4

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

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PAKISTAN WEATHER REVIEW 1949

Monthly Weather Report

November.

PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN

Chief Features.—(1) Four western disturbances affected weather over the northern and north western part of West Pakistan.

(2) Spell of wet weather in the eastern and the deltaic sub-divisions on the first day of the month.

West Pakistan.—A western disturbance moving northeastwards from Gulf of Oman to Kashmir across West Pakistan between the 24th and the 28th caused a few falls of showers with thunderstorm activity in north Baluchistan on the 26th and in the North West Frontier Province and the west Punjab on the subsequent two days.

Weather remained mainly dry in West Pakistan during the rest of the month except for light thunderstorm/shower activity in the extreme north of West Pakistan on the 12th in association with the passage of a western disturbance across the area.

The total rainfall was in large defect in the west Punjab, the North West Frontier Province and north Baluchistan. No rain fell elsewhere over West Pakistan. Averaged over the plains of West Pakistan it was in large defect.

The mean maximum temperatures were below normal in the lower North West Frontier Province, Baluchistan and upper Sind and normal elsewhere. The mean minimum temperatures were below normal over the region outside the lower North West Frontier Province and upper Sind where they were normal.

The mean relative humidity was normal over West Pakistan outside the southwest Punjab and the North West Frontier Province where it was below normal. Skies were more clouded than usual in the lower North West Frontier Province, South Baluchistan and upper Sind, less clouded than usual in the upper North West Frontier Province and normally clouded elsewhere over the region.

East Pakistan.—The depression which lay over Bihar on the last day of the previous month, caused influx of moist air into East Pakistan and was responsible for a spell of wet weather with thunderstorm activity in the eastern and the deltaic sub-divisions on the 1st.

Weather otherwise remained dry over East Pakistan during the month.

Barisal recorded 1½" and Chittagong 1" rain on the 1st.

The total rainfall was in large defect over East Pakistan outside the northern sub-division where no rain fell. Averaged over the region as a whole it was in large defect.

The mean maximum and minimum temperatures and relative humidity were normal except in deltaic sub-division where the mean minimum temperature was below normal. Skies were less clouded than usual all 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.

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TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS, NOVEMBER, 1949.

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		Degree	Degree	Mb.	%	
East Bengal	0·24	1·14	—0·90	—80	+0·5	—1·1	—0·8	—2	—0·9
Mean of East Pakistan	0·24	1·14	—0·90	—80	+0·5	—1·1	—0·8	—2	—0·9
West Punjab	0·00	0·11	—0·11	—100	—1·1	—3·4	—1·6	—2	0·0
N. W. F. P.	0·01	0·16	—0·15	—94	—2·0	—2·1	—2·4	—13	+0·1
Baluchistan	0·02	0·09	—0·07	—78	—3·7	—3·8	—0·7	0	+0·2
Sind	0·00	0·07	—0·07	—100	—2·3	—3·4	—2·8	—4	+0·3
Mean of West Pakistan excluding Baluchistan	0·00	0·10	—0·10	—100	—1·7	—3·2	—2·1	—5	+0·1
East Bengal (North)	0·00	0·59	—0·59	—100	+1·4	—0·9	—0·4	—2	—0·3
East Bengal (East)	0·33	1·67	—1·34	—80	—0·3	—0·7	—0·7	—1	—1·1
East Bengal (Deltaic)	0·40	1·18	—0·78	—66	+0·1	—2·0	—1·3	—3	—0·9
MEAN.									
Kashmir *									
North West Punjab	0·00	0·15	—0·15	—100	—0·7	—3·2	—1·3	0	0·0
South West Punjab	0·00	0·03	—0·03	—100	—1·9	—3·9	—2·3	—8	—0·1
N. W. F. P. (Upper)	0·00	0·31	—0·31	—100	—0·9	—3·4	—2·5	—17	—0·7
N. W. F. P. (Lower)	0·01	0·11	—0·10	—91	—2·3	—1·7	—2·4	—12	+0·3
Baluchistan (North)	0·03	0·12	—0·09	—75	—4·2	—4·1	—0·4	+1	—0·1
Baluchistan (South)	0·00	0·05	—0·05	—100	—3·1	—3·3	—1·2	—1	+0·7
Sind (Upper)	0·00	0·03	—0·03	—100	—4·1	—0·8	—2·8	—4	+0·7
Sind (Lower)	0·00	0·11	—0·11	—100	—1·1	—4·0	—2·8	—4	+0·1

(*) Data incomplete.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of bar cistern above mean sea level 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.		
		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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST BENGAL (North)																					
Bogra	63	1012·0	—1·1	1008·6	1014·3	1010·8	82·9	+0·5	89	7,8	62·0	—0·8	53	26	69·2	77·8	65·2	69·4	19·3	—1·1	20·8
Dinajpur	123	1011·0	—0·4	1007·1	1015·4	1011·4	83·8	+1·3	90	1	60·1	—0·9	52	25,26	71·2	75·1	65·2	68·1	20·7	+1·3	20·2
EAST BENGAL (East).																					
Cox's Bazar ...	38	1012·4	—0·3	1009·6	1013·7	1011·0	84·7	+0·3	90	9,10	67·2	+0·1	56	28,29	77·5	77·2	70·4	70·3	21·9	—3·0	21·9
Chittagong ...	87	1011·0	—0·7	1007·7	1014·1	1010·8	85·1	+1·5	91	9	65·2	—0·3	55	27	76·3	76·1	69·5	69·6	21·1	—2·3	21·7
Comilla	29	1013·2	—0·7	1009·8	1014·2	1010·8	84·7	+0·7	90	8	64·3	+0·2	56	26	74·1	77·0	68·9	70·4	21·9	—1·3	22·5
Narayanganj ...	26	1013·3	—0·7	1009·8	1014·2	1010·7	86·1	+2·2	91	8,9	64·5	—1·6	54	26	74·2	79·1	68·1	69·3	20·7	—1·2	19·7
Brahmanbaria ...	32	1013·4	—	1009·5	1014·5	1010·6	84·7	—0·5	90	7	65·1	—0·5	56	26,27	75·9	76·3	69·8	70·1	22·3	—0·8	22·3
Srimangal	69	1011·2	—1·6	1008·1	1013·7	1010·5	84·1	—1·4	90	7	58·5	—1·1	47	27	68·5	76·5	66·5	71·6	21·7	+0·3	24·5
Mymensingh ...	62	1012·8	—0·4	1009·2	1015·0	1011·3	84·4	+1·5	90	1	62·1	—2·4	52	27	75·2	81·0	71·9	75·4	24·8	+3·0	27·7
EAST BENGAL (Deltaic)																					
Faridpur	46	1013·2	—0·1	1009·6	1014·8	1011·2	78·1	—4·2	87	9	62·2	—1·8	52	26	73·3	73·7	67·6	67·5	20·5	—1·4	20·7
Barisal	11	1013·6	—0·7	1010·7	1014·0	1011·1	83·7	+0·5	91	1	63·3	—2·3	56	27	76·1	77·9	70·0	68·9	22·3	—1·0	20·1
Khulna	16	1014·6	—0·1	1011·0	1015·2	1011·6	84·1	+0·6	91	1	63·7	—1·9	56	27,28	74·5	77·9	66·7	68·1	19·0	—1·6	18·9
Jessore	26	1014·1	—0·3	1010·3	1015·0	1011·2	83·3	—0·9	89	1,9	58·9	—1·9	49	26	70·8	75·5	65·6	68·0	19·6	—1·3	19·6
Sarkhira	16	1014·6	+0·1	1011·4	1015·2	1012·0	83·9	—1·2	90	1	62·0	—1·2	52	27	71·7	78·6	67·2	69·6	19·7	—1·1	21·0
KASHMIR																					
Srinagar (x) ...	5205																				
Gulmarg (x) ...	87·9																				
Dras (x) ...	10059																				
Leh (x)	11529																				
Skardu (x) ...	7505																				
Gilgit (x) ...	4890																				
Miagar ...	10190	700·7	—	698·9	704·5	702·7	39·6	—	49	4	21·5	—	11	30	21·7	31·8	17·9	25·5	2·2	—	2·8

(x) Data not available.

Relative humidity %			Cloud Amount (Eighths of Sky).			Precipitation, inches.						Wind velocity miles per hour.		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.	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	
23	24	25	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)
80	+3	64	1·4	0·0	1·4	0·00	—0·77	0·00		0	—0·8	2·0	+1·1	0	4	0	0	1	2	5	13	5	0	1	0	0	0	6	1	4	18	Bogra
72	—5	69	0·8	—0·5	0·3	0·00	—0·44	0·00		0	—0·6	1·5	+0·4	4	6	0	0	0	3	1	3	13	1	2	0	0	0	0	0	0	27	Dinajpur
																																EAST BENGAL (East)
69	—8	70	1·0	—1·7	0·9	0·33	—2·93	0·33	1	1	—2·1			7	0	0	0	0	0	1	0	22	2	0	0	0	0	0	0	2	26	Cox's Bazar
69	—12	70	2·1	—0·5	1·5	1·24	—0·93	1·24	1	1	—1·0	2·5	—0·6	12	3	3	0	0	0	1	3	8	7	0	0	0	0	0	6	14	3	Chittagong
76	+1	72	1·4	—0·3	0·6	0·00	—1·29	0·00		0	—1·6	1·6	+0·5	13	0	0	3	3	0	1	7	3	1	0	0	2	1	0	5	4	17	Comilla
73	—1	59	0·7	—1·4	0·6	0·00	—0·95	0·00		0	—1·3	(c) 1·4	+0·3	10	0	0	1	1	(b) 1	5	8	3	0	0	0	0	(b) 0	0	16	2	11	Narayanganj
72	+2	72	1·0	—1·2	0·9	0·24	—0·80	0·24	1	1	—0·5	1·6	—	10	0	1	0	4	1	0	3	11	1	0	0	0	1	0	0	0	28	Brahmanbaria
90	+7	78	1·3	—0·7	1·2	0·18	—1·23	0·18	1	1	—0·7	1·1	—0·1	0	0	0	2	4	1	1	0	22	1	0	0	0	3	0	2	0	24	Srimangal
83	+4	77	0·0	—1·9	0·0	0·00	—0·88	0·00		0	—1·0	2·3	+1·7	1	0	0	6	0	1	1	0	21	0	0	0	6	0	0	0	0	24	Mymensingh
																																EAST BENGAL (Deltaic)
72	—5	70	1·1	—0·3	0·8	0·00	—1·10	0·00		0	—1·4	2·1	+0·7	9	1	0	0	3	0	1	10	6	2	0	0	0	0	0	0	2	26	Faridpur
72	—3	62	1·2	—0·6	0·7	1·60	+0·06	1·60	1	1	—0·7	2·1	+1·0	1	0	0	0	0	0	0	22	7	1	0	0	0	0	0	0	3	26	Barisal
65	—2	58	0·1	—2·1	0·2	0·00	—1·12	0·00		0	—1·8	2·0	+0·4	4	4	4	0	1	1	2	2	12	3	2	0	0	2	0	3	0	20	Khulna
74	0	66	1·1	—0·5	0·7	0·00	—0·95	0·00		0	—1·1	1·6	+0·6	4	3	0	0	2	2	5	10	4	1	0	0	0	0	0	0	1	28	Jessore
70	—3	62	2·8	+0·6	1·7	0·00	—0·74	0·00		0	—1·2	1·8	+0·9	9	1	1	0	0	6	4	9	0	0	1	1	0	1	1	0	1	25	Satkhira
																																KASHMIR
																																Srinagar (x)
																																Gulmarg (x)
																																Dras (x)
																																Leh (x)
																																Skardu (x)
																																Gilgit (x)
55	—	45	4·5	—	4·6	0·07	—	0·07	27	0	—	3·3	—	2	0	1	0	0	0	8	0	19	0	0	10	0	2	0	8	0	10	Misgar

(b) Observation for 29 days. (c) Mean for 28 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of bar cisteen above mean sea level 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.		
		Mean 0030 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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
NORTH PUNJAB																					
Lahore ...	702	991·4	+0·1	989·4	1016·9	1013·9	81·3	—1·6	87	4	45·0	—2·3	38	24,25	53·9	74·8	47·8	59·6	8·6	—2·2	10·6
Sialkot ...	830	987·0	—0·1	984·5	1016·9	1013·4		Rejected		9	49·1	0·0	39	24,25	56·6	71·6	52·3	60·1	11·4	+0·4	12·6
Jhelum ...	765	990·1	—	987·1	1017·8	1013·7	80·1	—	86	5 days	42·2	—	33	24	50·0	72·9	45·6	61·7	7·5	—	13·8
Rawalpindi ...	1674	957·9	—0·5	956·0	1018·6	1013·7	76·7	—1·0	84	3	40·5	—3·9	33	24	45·4	67·5	41·0	52·4	6·7	—1·7	6·7
Khushab ...	616·	993·8	—1·3	992·5	1016·4	1013·9	82·6	—0·2	90	4	43·0	—6·8	32	24	51·2	77·5	43·9	57·9	6·9	—1·4	7·6
Lyallpur ...	605	994·5	—0·2	992·6	1016·7	1013·7	81·9	—0·1	88	4,5	46·3	—2·8	40	24	49·8	73·7	45·3	57·7	8·5	—1·6	9·1
SOUTH PUNJAB																					
Montgomery ...	558	997·0	+0·4	994·6	1017·2	1013·9	81·8	—1·6	88	5	47·3	—4·3	41	21,23	56·2	78·0	48·9	61·9	8·3	—2·8	11·7
Multan (R) ...	413																				
Fort Abbas (R) ...	47475																				
Bahawalpur ...	384	1003·3	+1·0	1000·6	1017·2	1014·0	83·2	—2·2	91	7	47·1	—3·5	39	20	54·4	77·8	48·5	62·6	9·0	—1·8	12·6
Khanpur (R) ...	297																				
N.W.F.P. (Upper)																					
Chakdara ...	2197	940·3	—	937·4	1020·1	1013·6	74·5	—	80	5	44·9	—	34	23,24	45·8	67·6	40·0	52·9	6·1	—	7·8
Peshawar ...	1175	976·1	—0·1	973·9	1018·7	1014·8	75·9	—0·9	85	5	45·5	—3·4	34	24	52·7	69·3	42·5	53·7	4·7	—2·5	7·1
Landikotal ...	350349																				
N.W.F.P. (Lower)																					
Bannu ...	1264	972·0	—	970·1	1017·2	1013·8	78·0	—2·2	84	4,6	49·3	—0·6	43	24,25	56·0	72·7	45·2	56·9	5·5	—2·6	8·7
Miranshah ...	30256	912·9	—	910·9	902·1	900·5	71·8	—1·6	82	5	45·4	—1·0	38	24,30	50·8	68·2	41·5	52·9	5·2	+0·9	7·5
D. I. Khan ...	57033	996·3	0·0	994·3	1017·2	1013·9	78·7	—3·2	86	2,4,5	45·2	—3·5	38	24	52·4	75·1	43·5	59·2	5·7	—4·2	10·0
BALUCHISTAN (North)																					
Fort Sandeman ...	4614	863·7	+0·3	861·7	904·9	901·3	67·8	—3·6	75	2,3,4	39·8	—1·3	30	24	42·7	65·0	38·2	55·5	4·7	+0·6	11·7
Hindubagh (R) ...																					
Loralai ...	4699	861·0	—	858·0	904·7	900·1	66·8	—	77	5	36·1	—	25	23	44·8	63·9	36·0	47·2	3·4	—	4·4
Harnai																					
Sibi ...	441	1002·6	+2·8	998·1	1018·1	1013·4	84·5	—1·9	95	6	49·2	—3·9	38	23,24	55·8	81·5	45·3	58·3	5·7	—0·7	5·9
Quetta ...	5490	836·0	—1·5	833·8	798·9	797·8	59·1	—	67	5	27·0	—	16	22	37·6	57·0	34·4	45·8	5·6	+1·2	6·5
Quetta (Samungli) ...	5253	846·5	—	844·3	800·6	800·0	60·2	—	69	5	22·1	—	14	22,23	30·3	57·0	27·0	42·3	3·6	—	4·1
Chaman ...	4311	875·2	+1·8	874·3	906·9	905·0	62·5	—5·1	72	3	37·1	—6·3	28	23	45·4	59·3	37·3	45·8	4·4	—0·5	5·0

(R) Register

Relative humidity %			Cloud Amount (Eighths of Sky).			Precipitation, inches.						Wind velocity miles per hour.		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.	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	
23	24	25	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
																																NORTH PUNJAB.
61	—2	37	1·1	0·0	1·7	0·00	—0·10	0·00	—	0	—0·3	1·3	+0·5	0	0	0	0	0	0	3	2	25	1	0	0	1	0	0	1	3	24	Lahore
61	—11	48	1·3	+0·4	1·8	0·00	—0·17	0·00	—	0	—0·4	0·9	+0·3	4	6	2	0	0	0	0	2	16	0	1	0	0	0	0	0	0	29	Sialkot
70	—	50	1·4	—	1·9	0·00	—	0·00	27	0	—	1·1	—	0	1	1	0	0	1	1	1	25	0	0	2	0	0	0	8	2	18	Jhelum
67	+5	32	1·6	+0·4	1·6	0·00	—0·28	0·00	—	0	—0·5	1·7	+0·6	1	2	0	0	0	0	0	0	27	0	0	0	0	1	1	16	0	12	Rawalpindi
51	0	25	0·6	—0·5	0·8	0·00	—0·08	0·00	—	0	—0·2	2·6	+0·6	1	1	3	2	3	1	1	3	15	1	1	3	3	4	2	4	1	11	Khushab
71	+9	33	1·0	—0·3	1·8	0·00	—0·11	0·00	—	0	—0·2	0·9	—0·2	2	1	0	1	0	3	1	0	22	1	0	0	0	1	0	2	3	23	Lyallpur
																																SOUTH PUNJAB.
55	—9	36	0·7	—0·1	0·8	0·00	—0·05	0·00	—	0	—0·2	0·9	—0·8	0	0	0	4	0	2	0	0	24	0	0	1	1	1	8	1	2	16	Montgomery
																																Multan (R)
																																Fort Abbas (R)
54	—7	39	0·9	0·0	0·6	0·00	—0·01	0·00	—	0	0·0	1·3	0·0	2	1	0	1	5	3	0	1	17	0	0	0	0	0	6	1	0	23	Bahawalpur
																																Khanpur (R)
																																N. W. F. P. (Upper)
58	—	34	1·4	—	1·2	0·06	—	0·06	29	0	—	3·1	—	0	1	0	0	0	21	1	3	4	0	5	3	5	0	3	0	2	12	Chakdara
36	—17	30	1·5	—0·7	1·8	0·00	—0·31	0·00	—	0	—0·6	1·9	+1·0	1	1	0	2	5	10	0	0	11	2	0	1	1	1	0	0	0	25	Peshawar
																																Landikotal
																																N. W. F. P. (Lower)
34	—16	32	1·6	+0·6	1·5	0·00	—0·16	0·00	—	0	—0·2	2·8	—	0	0	0	0	1	1	7	15	6	0	1	2	7	3	0	1	0	16	Bannu
41	+2	32	1·4	+0·2	1·8	0·04	+0·02	0·04	27	0	0·0	4·6	+1·4	4	2	1	0	0	2	3	3	15	0	0	15	14	0	0	1	0	0	Miranshah
44	—22	35	1·1	+0·1	0·7	0·00	—0·15	0·00	—	0	—0·3	1·2	+0·7	3	1	1	0	0	0	2	6	17	0	2	0	0	0	0	0	0	28	D. I. Khan
																																BALUCHISTAN (North)
50	—5	52	1·0	0·0	1·6	0·00	—0·13	0·00	—	0	—0·2	0·9	—0·2	0	0	0	0	0	0	0	0	30	1	0	0	0	0	1	0	3	25	Fort Sandeman
																																Hindubagh (R)
41	—	29	1·1	—	1·4	0·00	—0·16	0·00	—	0	—0·5	3·4		0	0	3	1	3	4	11	0	8	0	0	1	2	2	2	6	0	17	Loralai
						0·00	—0·18	0·00	—	0	—0·3	—	—																			Harnai
38	+2	17	1·3	+0·1	1·5	0·00	—0·02	0·00	—	0	—0·1	2·0	+0·3	2	2	1	1	0	1	0	4	19	0	0	2	2	3	7	9	2	5	Sibi
74	+19	58	1·3	+0·1	1·4	0·00	—	0·0	—	0	—	3·1	+1·6	2	4	1	2	2	0	0	0	19	10	4	0	0	0	2	4	10	0	Quetta
69	—	27	1·1	—	1·4	0·00	—	0·00	—	0	—	3·2	—	0	0	2	2	1	0	0	1	24	2	0	0	0	0	0	12	15	1	Quetta (Szmangli)
45	+3	32	1·0	0·0	1·3	0·19	—0·04	0·11	25	1	+0·3	—	—	0	0	6	7	1	1	0	0	15	0	0	0	1	1	3	13	3	9	Chaman

not received.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of bar cistern above mean sea level 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.		
		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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
BALUCHISTAN (North)—Contd.																					
Nushki ...	3412	908·1	—	907·3	909·9	909·0	67·8	—	77	4,5	44·4	—	34	23	50·9	65·8	45·0	55·5	7·8	—	10·8
Kalat (R) ...	6616																				
Dalbandin ...	2785	924·5	+2·1	921·9	905·2	903·6	70·7	—5·6	81	5	35·7	—4·8	28	22,24	41·1	68·8	33·1	51·3	3·5	—1·4	4·7
Nokkundi ...	2229	942·6	—	940·2	1022·5	1016·1	75·3	—4·7	85	2	45·4	—4·3	35	22	49·5	72·7	39·3	52·9	4·0	—1·7	5·5
BALUCHISTAN (South)																					
Las Bela ...	292	1006·9	+1·5	1003·3	1017·5	1013·3	87·8	—5·1	95	5	49·9	—3·6	44	23	62·3	86·8	52·8	71·0	9·2	—2·4	18·1
Ormara ...	15	1015·9	—	1013·2	1016·4	1013·7	84·5	—1·2	94	6	59·5	—4·3	54	2,19	66·5	81·2	59·6	65·4	14·2	—3·6	13·1
Pasni ...	10	1016·3	+0·8	1013·8	1016·6	1014·1	84·2	—1·2	94	4	58·4	—2·1	54	24,25	63·5	80·7	60·4	74·5	16·7	+1·5	13·7
Turbat (R) ...	510																				
Panjgur ...	3177	909·5	+0·8	906·7	903·7	901·5	71·2	—4·7	80	4	x	—	—	—	46·0	66·0	38·8	50·5	5·2	—0·2	6·3
SIND (Upper) ...																					
Reti (l) ...	280	1007·9	—	1005·6	1018·3	1015·4	83·2	—	89	19,23	44·9	—	40	13,24,25	50·5	79·0	43·4	57·2	6·5	—	6·2
Jacobabad ...	183	1010·4	+0·8	1007·6	1017·2	1014·0	83·9	—2·0	92	6	52·9	—1·6	47	23	58·4	81·1	48·9	60·4	7·8	—3·4	8·3
Sukkur ...	221	1008·6	+0·5	1006·0	1016·7	1013·7	80·1	—6·1	87	8	x	—	—	—	57·0	79·6	50·8	59·1	9·9	—2·2	8·0
Pad Idan ...	153	1011·5	—	1009·1	1017·2	1014·5	83·8	—	91	5	47·0	—	40	23	52·6	80·7	48·7	60·9	9·8	—	9·3
SIND (Lower) ...																					
Umarkot ...	55	1014·1	—	1011·0	1016·1	1012·9	84·9	—	91	6,7,8	49·1	—	31	30	60·1	83·4	51·9	69·8	9·5	—	18·9
Hyderabad ...	96	1013·0	+0·7	1010·3	1016·4	1013·7	86·2	—2·6	96	7	56·7	—2·1	53	1	61·0	82·9	52·6	61·4	9·6	—2·4	9·0
Karachi (Drigh Rd.)	73	1013·7	—	1011·0	1016·4	1013·6	88·1	—	95	4	55·0	—	51	15,23	61·1	82·5	53·9	67·9	10·7	—	15·9
Karachi (Manora)...	13	1015·6	+0·4	1013·1	1016·1	1013·6	85·1	—0·1	91	6	64·1	—2·8	60	24	66·9	74·8	59·0	67·9	13·5	—2·5	20·7
Badin ...	31	1015·1	+1·3	1012·1	1016·2	1013·2	89·7	—0·5	96	5,6,7	52·8	—7·1	48	15,17	59·8	85·1	52·6	62·5	10·4	—3·4	9·1
HILL STATIONS (excluding Kashmir and Baluchistan)																					
Murree ...	7113	786·6	—0·9	785·9	798·6	797·9	56·0	—3·5	63	4	39·4	—1·6	33	30	44·1	46·2	35·0	36·9	3·7	—0·8	3·9
Cherat ...	4272	873·1	—0·4	872·4	902·9	902·0	63·5	—1·9	71	5	48·9	—0·8	44	19,23,29	52·5	58·9	40·1	43·7	3·4	—2·3	3·6
Drosh ...	4806	859·9	—	856·3	907·3	902·4	61·0	—3·1	72	5	40·7	—2·9	36	22,23,24	42·9	54·7	35·0	40·9	3·7	—1·4	3·2
Parachinar ...	5673	929·8	—0·2	828·6	798·5	798·4	62·3	—2·4	71	5	37·5	—1·8	29	23,24	41·8	55·8	33·5	41·6	3·7	—1·4	4·0
Wana ...	4456																				
AFGHANISTAN																					
Jalalabad (R) ...	1950																				
Kabul ...	5955	823·9	—	822·3	800·9	800·2	58·3	—2·8	68	4	28·6	—3·7	18	23	32·1	53·8	26·2	40·8	2·7	—0·9	5·1
Kandahar ...	3462	909·6	—	907·0	913·3	910·6	66·7	—	77	4	29·8	—	20	23	(d) 37·0	61·4	(d) 33·7	49·6	5·3	—	7·4

(R) Register not received. (x) Data not available. (d) Mean of 27 days.

Relative humidity %			Cloud Amount (Eighths of Sky).			Precipitation, inches.						Wind velocity miles per hour.		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.	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	
23	24	25	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
																																BALUCHISTAN (North)—Contd.
65	—	51	0·9	—	1·4	0·00	—	0·00	—	0	—	4·9	—	1	2	13	3	0	1	1	1	8	1	0	0	0	0	2	20	7	0	Nushki
																																Kalat (R)
40	—7	21	0·6	—0·4	1·0	0·00	—0·06	0·00	—	0	—0·2	(c) 3·0	+0·6	0	4	4	0	0	0	1	0	21	2	2	17	0	0	0	1	0	8	Dalbandin
35	—7	21	1·0	—0·6	1·5	0·00	—0·05	0·00	—	0	—0·1	4·3	—0·2	13	2	0	0	0	0	0	0	15	3	14	0	0	2	0	0	0	11	Nokkundi
																																BALUCHISTAN (South)
51	0	45	1·2	+0·6	1·3	0·00	0·00	0·00	—	0	0·0	1·7	+0·1	8	1	0	0	0	0	0	10	11	1	0	0	0	16	3	0	0	10	Las Bela
63	—10	41	1·6	+0·4	1·4	0·00	0·00	0·00	—	0	0·0	3·5	—0·5	0	2	4	7	0	2	1	1	13	0	1	1	6	9	6	5	1	1	Ormara
81	+12	73	0·0	+1·0	0·0	0·00	—0·14	0·00	—	0	0·0	5·6	+1·3	2	7	0	0	0	0	11	7	3	0	2	1	0	9	14	3	0	1	Pasni
																																Turbat (R)
43	—6	29	1·5	+0·6	1·4	0·00	—0·05	0·00	—	0	—0·2	4·0	—0·1	1	13	15	0	0	0	0	0	1	16	6	0	0	0	1	2	4	1	Panjgur
																																SIND (Upper)
51	—	20	1·6	—	1·1	0·00	—	0·00	—	0	—	3·4	—	2	3	0	1	1	1	1	0	10	1	2	0	0	0	0	4	1	11	Reti (I)
45	—13	24	1·2	+0·5	1·3	0·00	—0·05	0·00	—	0	—0·1	3·1	—0·9	1	1	2	2	1	0	5	5	13	1	1	0	1	2	5	6	8	6	Jacobabad
63	+5	24	1·4	+0·8	1·1	0·00	0·00	0·00	—	0	0·0	1·5	—0·8	6	6	3	9	1	0	0	0	5	3	7	2	2	0	1	4	2	9	Sukkur
74	—	26	1·5	—	1·5	0·00	—	0·00	—	0	—	2·5	—	5	5	1	2	0	1	1	3	12	13	2	0	2	1	0	1	5	6	Pad Idan
																																SIND (Lower)
56	—	54	0·0	—	0·0	0·00	—	0·00	—	0	—	2·8		5	6	3	2	1	0	3	2	8	2	2	0	0	1	2	17	6	0	Umarkot
52	—3	23	1·3	+0·4	0·8	0·00	—0·06	0·00	—	0	—0·1	2·2	—0·9	18	1	0	3	2	2	0	0	4	23	0	0	1	1	1	0	0	4	Hyderabad
69	—	46	1·2	—	1·1	0·00	—	0·00	—	0	—	3·2	—	11	3	1	0	0	0	0	1	14	0	4	5	0	2	14	5	0	0	Karachi (Drigh Road)
61	—5	54	1·4	+0·2	1·1	0·00	—0·08	0·00	—	0	—0·3	3·7	—0·9	2	12	3	0	0	0	0	0	13	0	0	2	1	0	14	12	0	1	Karachi (Manora)
56	—4	23	0·5	—0·5	0·1	0·00	—0·18	0·00	—	0	—0·4	1·7	—	13	1	1	0	0	1	1	1	12	11	4	0	0	0	0	1	0	14	Badin
																																HILL STATIONS (excluding Kashmir and Baluchistan.)
38	—2	40	1·9	+0·3	2·1	0·24	—0·49	0·12	27	1	—0·2	5·0	+1·7	0	4	12	5	0	0	2	4	3	0	0	6	3	0	0	7	3	11	Murree
26	—18	21	1·2	—0·2	0·8	0·06	—0·37	0·00	—	0	—0·6	8·8	+2·7	28	0	0	0	2	0	0	0	0	26	0	0	0	4	0	0	0	0	Chitral
41	—12	25	3·4	+1·7	2·3	0·01	—0·33	0·01	12	0	—1·2	2·5	+0·9	0	2	2	4	0	1	0	0	21	0	1	0	18	0	4	0	0	7	Drosh
40	—8	27	1·1	—0·4	2·1	0·08	—0·32	0·06	28	0	—1·2	2·7	+0·9	7	1	0	0	0	0	0	2	20	0	0	7	12	6	2	0	1	2	Parachinar
			0·5	—0·3	0·5	0·00	—0·07	0·00	—	0	—0·2	1·5	—	1	0	0	1	0	0	1	1	26	6	1	0	5	1	2	0	2	13	Wana
																																AFGHANISTAN
																																Jalalabad (R)
46	—11	27	1·8	—0·2	2·6	0·00	—0·60	0·00	27,28	0	—1·5	2·9	+1·1	4	1	1	1	5	7	5	5	1	9	7	2	3	2	2	0	2	3	Kabul
(d) 71	—	41	1·1	—	1·6	0·17	—	0·15	26	1	—	1·0	—	0	0	0	0	0	0	0	0	30	0	0	0	0	0	7	0	0	23	Kandahar

(c) Mean of 28 days. (d) Mean of 19 days.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0900 HRS.

STATIONS.	Height of bar cistern above mean sea level in feet.	Pressure at Stations 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.		
		Mean 0030 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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
IRAN																					
Jask (R) ...	13																				
ARABIA																					
Muscat	20	1016·5	—	1014·7	1017·1	1015·3	79·8	—4·5	86	8	70·4	—3·4	67	18,19	72·7	76·9	64·9	68·1	17·8	—	19·5
Kuwait (*) ...	16	1018·6	—	1016·1	1019·1	1016·6	80·1	—	90	5,6	60·6	—	49	26	66·9	77·8	59·6	66·6	14·0	—	17·6

(*) Recorded at 0500 hrs. G.M.T. instead of 0900 hrs. G.M.T.

Relative humidity %			Cloud Amount (Eighths of Sky.)			Precipitation.						Wind velocity miles per hour.		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.	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	
23	24	25	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
																																IRAN.
																																Jask (R)
																																ARABIA.
65	—	62	1·1	—0·2	1·4	0·03	—0·36	0·03	27	0	—0·7	2·9	+0·2	0	1	0	2	1	1	8	5	12	3	5	0	0	0	0	1	10	11	Muscat
65	—	54	0·6	—	1·7	0·00	—	0·00	—	0	—	3·1	—	2	2	0	0	0	1	14	8	3	2	0	7	0	0	0	1	4	15	Kuwait (*)

(R) Register not received.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS—NOVEMBER, 1949.

STATION.	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature °F 0300 hrs. G.M.T.	Mean wet bulb temperature °F 0300 hrs. G.M.T.	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 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
																Inches.	Inches.	Inches.					
EAST BENGAL (North).																							
Pabna	87·8	+2·3	91	9	...	...	...	...	72·5	66·7	19·9	—1·5	72	—3	...	0·00	—0·70	0·00	—	0	—1·0	...	...
KASHMIR.																							
Jammu (x)																							
Kargil (x)																							
IRAN.																							
Zahidan																							

(x) Data not available.

TABLE V—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 5TH CLASS STATIONS—NOVEMBER, 1949.

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
		Inches	Inches	Inches			
EAST BENGAL (North).							
	Rajshahi (R)						
	Sirajganj	0·00	—0·69	0·00	...	0	—0·8
	Rangpur	0·00	—0·40	0·00	...	0	—0·5
KASHMIR.							
	Sonemarg (x)						
	Gurez (x)						
BALUCHISTAN (North).							
	Harnai						

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

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PAKISTAN WEATHER REVIEW 1949

Monthly Weather Report

December

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Chief Features.—(1) Four Western disturbances affected West Pakistan and caused a mild spell of wet weather in the northern parts during the second Week.

(2) Dry weather prevailed over East Pakistan.

West Pakistan.—Two western disturbances moving northeastwards in quick succession from north Baluchistan across the North West Frontier Province during the second week were responsible for a mild spell of wet weather over north Baluchistan, the lower North West Frontier Province and the plains of the Punjab with a few dust or thunderstorms there during the same period. Khanpur recorded ½" of rain on the 9th.

Two other feeble secondary western disturbances affected Sind and Baluchistan between the 16th and 18th and caused a few light falls of rain there during the above period.

Weather, otherwise, remained dry over West Pakistan although two feeble western disturbances affected the northern parts of West Pakistan during the last week.

The total rainfall during the month was in large defect over West Pakistan outside upper Sind where it was normal. Averaged over the plains of West Pakistan as a whole, it was in iarge defect.

The mean maximum and minimum temperatures were normal over the region except in the northwest Punjab and the upper North West Frontier Province where the minimum temperature was below normal.

The mean relative humidity was in excess over lower Sind ; in defect over the upper North West Frontier Province and north Baluchistan and normal elsewhere.

Skies were normally clouded over the region outside the southwest Punjab where they were less clouded than usual.

East Pakistan.—Weather was dry in East Pakistan throughout the month.

The mean maximum temperature was normal while the mean minimum temperature was below normal.

The mean relative humidity was normal in the eastern sub-division and in defect elsewhere over the region. Skies were less clouded than usual in 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, DECEMBER, 1949.

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		Degree	Degree	Mb.	%	
East Bengal	0·00	0·25	—0·25	—100	—0·6	—3·5	—2·0	—7	—1·0
Mean of East Pakistan	0·00	0·25	—0·25	—100	—0·6	—3·5	—2·0	—7	—1·0
West Punjab	0·05	0·51	—0·46	—90	—1·2	—2·1	—1·5	—3	—0·4
N. W. F. P.	0·12	0·50	—0·38	—76	—1·0	—1·8	—0·8	—8	—0·1
Baluchistan	0·06	0·65	—0·59	—91	+1·3	0·0	—0·1	—3	—0·1
Sind	0·04	0·13	—0·09	—69	+0·9	—0·5	+1·0	+6	0·0
Mean of West Pakistan excluding Baluchistan	0·06	0·38	—0·32	—84	—0·5	—1·2	—0·5	—1	—0·2
East Bengal (North)	0·00	0·09	—0·09	—100	—0·1	—3·7	—2·3	—11	—0·7
East Bengal (East)	0·00	0·43	—0·43	—100	—0·8	—3·8	—2·1	—4	—1·2
East Bengal (Deltaic)	0·00	0·19	—0·19	—100	—0·8	—2·9	—1·6	—6	—0·9
Kashmir*									
North West Punjab	0·04	0·62	—0·58	—94	—1·8	—2·6	—1·8	—2	—0·4
South West Punjab	0·07	0·24	—0·17	—71	+0·3	—0·9	—0·9	—4	—0·7
N. W. F. P. (Upper)	0·07	0·67	—0·60	—89	+0·6	—2·4	—1·9	—20	—0·6
N. W. F. P. (Lower)	0·14	1·34	—1·20	—90	—1·5	—1·6	—0·4	—4	0·0
Baluchistan (North)	0·08	0·66	—0·58	—88	+1·7	—0·5	—0·9	—6	0·0
Baluchistan (South)	0·03	0·65	—0·62	—95	+0·8	+0·9	+1·3	+1	—0·3
Sind (Upper)	0·09	0·10	—0·01	—10	—0·3	+1·3	—0·4	—1	+0·2
Sind (Lower)	0·00	0·15	—0·15	—100	+1·8	+0·3	+1·9	+10	—0·2

(*) Data incomplete

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of bar cistern above mean sea level 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.		
		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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST BENGAL (North)																					
Sirajganj ...	48	1013·8		1010·4	1015·6	1012·1	78·0		89	1	53·3		48	23,24,31	64·8	66·5	59·5	61·9	14·9		17·3
Bogra	63	1014·3	—1·1	1010·5	1016·6	1012·7	77·2	+0·5	85	2,3	50·8	—3·7	45	14,22	62·9	70·5	55·7	60·7	12·2	—3·1	13·8
Dinajpur ...	123	1012·3	—1·0	1008·5	1016·7	1012·8	77·3	+0·2	83	1,2	48·4	—3·6	42	22	61·4	67·5	56·6	60·2	13·1	—1·4	14·0
EAST BENGAL (East).																					
Cox's Bazar ...	38	1013·5	—1·2	1010·8	1014·9	1012·1	78·6	—1·1	85	3	54·6	—4·1	50	19,21,23	68·4	69·5	61·1	61·5	14·6	—4·4	14·7
Chittagong ...	87	1012·5	—1·2	1009·0	1015·6	1012·1	79·2	+0·2	84	2,3	53·5	—3·7	49	23	66·0	68·6	59·9	61·0	15·0	—2·9	15·3
Comilla	29	1014·5	—1·6	1011·3	1015·5	1012·3	79·0	—0·2	86	1,2	52·2	—2·6	47	23	64·4	68·5	59·7	62·2	15·3	—2·2	16·4
Narayanganj † ...	26	1014·7	—1·6	1011·0	1015·6	1011·9	79·4	+0·9	87	2	54·3	—3·2	49	1	67·1	72·8	60·0	61·8	15·1	—1·5	14·0
Brahmanbaria ...	32	1015·1	—	1011·3	1016·2	1012·4	77·7	—2·1	85	2	53·8	—1·6	49	24,26	66·0	68·7	60·8	62·6	16·1	—0·9	17·0
Srimangal ...	69	1013·4	—1·3	1010·0	1015·9	1012·5	77·0	—3·4	82	3	44·6	—4·9	37	24	59·8	60·9	57·4	59·0	15·0	—0·5	16·2
Mymensingh ...	62	1014·1	—1·3	1010·7	1016·4	1012·9	79·5	+1·8	85	10	49·7	—6·1	45	29,30	61·3	73·7	57·9	65·8	14·6	—1·8	18·2
EAST BENGAL (Deltaic)																					
Faridpur ...	46	1014·5	—1·1	1010·9	1016·1	1012·5	69·1	—7·3	79	1,10	51·3	—3·6	46	17,22	64·1	65·7	59·6	61·4	15·3	—1·1	16·6
Barisal	11	1014·7	—1·7	1011·8	1015·1	1012·2	77·3	—0·8	85	2	54·5	—2·1	50	18	66·9	71·4	61·2	62·8	16·2	—1·4	15·5
Khulna	16	1015·6	—1·4	1010·9	1016·2	1011·5	78·1	—0·6	86	2	55·2	—2·1	50	17	66·6	70·1	58·9	61·2	14·0	—2·0	14·3
Jessore	26	1015·1	—1·7	1011·5	1016·0	1012·4	77·8	—1·1	85	2	47·7	—3·8	43	23	64·3	67·3	58·2	59·9	13·8	—1·8	14·0
Satkhira † ...	16	1015·3	—1·5	1012·1	1015·9	1012·7	78·9	—1·7	87	2	50·9	—3·5	46	17	63·8	71·5	58·4	63·1	14·3	—1·5	15·5
KASHMIR.																					
Srinagar (x) ...	5205																				
Gulmarg (x) ...	8709																				
Dras (x) ...	10059																				
Leh (x)	11529																				
Skardu (x) ...	7505																				
Gilgit (x) ...	4890																				
Misgar	10190	699·1	—	696·1	702·8	699·9	30·1	—	38	17	10·4	...	4	20,21,27	10·7	23·7	9·0	19·0	1·4	...	2·2

(x) Data not available.

Relative humidity %			Cloud Amount (Eighths of Sky).			PRECIPITATION						Wind velocity miles per hour.		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.	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	
23	24	25	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
						Inches	Inches	Inches																								
																																EAST BENGAL (North)
71		76	0·0		0·1	0·00	—0·09	0·00		0	—0·3			18	0	1	0	3	1	4	4	0	2	0	0	0	2	2	1	0	24	Sirajganj
61	—15	54	0·3	—0·8	0·0	0·00	—0·09	0·00		0	—0·2	1·4	+0·5	0	5	1	0	0	5	7	4	9	0	0	0	0	0	3	4	1	23	Bogra
73	—8	64	0·3	—0·7	0·0	0·00	—0·06	0·00		0	—0·1	0·7	—0·4	4	2	0	0	1	4	1	0	19	0	0	0	0	0	0	0	0	31	Dinajpur
																																EAST BENGAL (East)
66	—12	61	0·1	—1·6	0·1	0·00	—0·98	0·00		0	—0·6			4	1	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	31	Cox's Bazar
68	—14	64	0·2	—1·4	0·1	0·00	—0·64	0·00		0	—0·7	2·7	—0·4	5	17	3	0	0	0	0	0	6	0	3	0	0	0	1	10	9	2	Chittagong
74	—3	69	0·4	—0·6	0·1	0·00	—0·30	0·00		0	—0·4	1·5	+0·5	11	0	1	5	5	0	1	2	6	8	0	1	2	1	0	4	4	11	Comilla
67	—11	51	0·4	—1·1	0·2	0·00	—0·20	0·00		0	—0·4	1·1	0·0	9	1	2	0	4	1	5	5	4	1	0	0	0	2	1	10	0	17	Narayanganj †
72	+1	70	0·2	—1·0	0·0	0·00	—0·31	0·00		0	—0·5	1·3	...	6	2	2	0	3	1	1	1	15	1	0	0	0	0	0	0	0	30	Brahmanbaria
87	+3	89	0·2	—1·1	0·3	0·00	—0·25	0·00		0	—0·5	1·1	0·0	1	2	0	0	0	0	1	0	27	0	0	1	1	1	0	1	0	27	Srimangal
82	—1	64	0·0	—1·5	0·5	0·00	—0·09	0·00		0	—0·3	2·1	+1·6	1	2	0	13	2	0	0	0	13	1	0	0	1	1	0	0	0	28	Mymensingh
																																EAST BENGAL (Deltaic)
75	—5	76	0·1	—0·9	0·2	0·00	—0·15	0·00		0	—0·3	1·7	+0·4	10	3	2	0	1	0	0	6	9	4	0	0	0	1	0	1	1	24	Faridpur
71	—8	61	0·5	—0·6	0·2	0·00	—0·25	0·00		0	—0·5	1·7	+0·6	0	0	0	0	0	0	1	14	16	2	0	0	0	0	1	0	3	25	Barisal
61	—6	58	0·0	—1·3	0·0	0·00	—0·19	0·00		0	—0·3	1·7	0·0	4	6	0	0	0	1	3	5	12	1	1	0	0	0	0	1	1	27	Khulna
68	—6	63	0·1	—0·9	0·2	0·00	—0·18	0·00		0	—0·4	1·6	+0·7	10	7	2	0	1	0	2	4	5	1	2	0	0	0	0	0	2	25	Jessore
72	—3	61	0·3	—0·8	1·4	0·00	—0·17	0·00		0	—0·3	1·4	+0·5	13	2	0	0	0	1	3	5	7	1	1	0	0	0	0	0	2	27	Satkhira (†)
																																KASHMIR
																																Srinagar (x)
																																Gulmarg (ex)
																																Dras (x)
																																Leh (x)
																																Skardu (x)
																																Gilgit (x)
64	...	49	4·4	...	4·6	0·00	...	0·00	...	0	...	2·3	...	0	0	3	0	0	0	1	2	25	0	0	14	0	1	0	2	0	14	Misgar

(†) Data received late.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of bar cistern above mean sea level 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.		
		Mean 0030 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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
NORTH PUNJAB.																					
Lahore	702	991·5	—1·8	989·5	1017·5	1014·4	71·3	—1·0	77	5	39·4	—1·2	33	21	44·4	65·1	41·6	53·7	7·4	—1·5	8·9
Sialkot	830	986·2	—2·7	984·5	1017·2	1014·0	62·8	—6·6	68	1	42·1	—0·1	38	21,26	47·0	62·5	39·5	53·3	4·9	—4·4	9·7
Jhelam	765	989·7	—	987·4	1018·0	1014·3	69·8	—	78	4	36·3	...	31	21	41·4	64·0	38·9	55·1	6·9	...	10·8
Rawalpindi ...	1674	957·4	—2·3	956·1	1018·9	1014·5	63·3	—3·5	75	3,4,5	34·5	—3·3	30	19,20	38·5	59·7	35·5	47·8	5·8	—1·2	6·6
Khushab ...	616	994·0	—3·2	992·5	1016·9	1014·3	73·2	+1·5	81	3,4	35·4	—6·1	31	4,5	42·5	68·3	38·4	53·3	6·1	—0·5	7·1
Lyallpur	605	994·5	—2·3	992·6	1017·0	1014·2	71·5	+0·8	77	4,5	39·8	—2·4	36	23	42·3	64·9	40·0	53·6	7·3	—1·2	9·0
SOUTH PUNJAB.																					
Montgomery ...	558	996·9	—1·8	994·6	1017·6	1014·4	72·2	+0·2	77	3,4,5	42·0	—1·1	38	4	46·5	69·0	42·6	55·3	7·5	—1·3	8·8
Multan (R) ...	413																				
Fort Abbas ...	47475	999·7	—	997·0	1017·2	1013·8	74·5	—	79	5 days	41·7	—	35	24	49·4	69·6	44·6	57·3	7·8	...	10·6
Bahawalpur ...	384	1003·2	—1·7	1000·3	1017·4	1014·2	74·4	+0·4	82	3	42·8	—0·8	37	25	47·8	70·2	40·4	57·6	8·1	—0·6	10·5
Khanpur (R) ...	297																				
N.W.F.P. (Upper).																					
Chakdara ...	2197	939·3	—	936·9	1020·4	1014·4	61·6	—	69	3,6	34·7	...	29	21,22	37·9	57·9	34·4	46·4	5·3	...	6·4
Peshawar ...	1175	975·9	—2·1	973·8	1018·9	1016·0	67·3	+0·6	76	3	38·5	—2·4	33	27,28	44·4	60·0	37·5	48·4	4·5	—1·9	6·4
Landikotal (R) ...	350349																				
N.W.F.P. (Lower).																					
Bannu	1264	971·9	—	969·8	1018·0	1014·3	68·9	—1·2	75	4	42·0	0·0	36	20	45·9	63·1	40·2	52·7	5·9	—0·7	8·9
Miranshah ...	30256	912·2	—	910·5	901·3	899·7	63·5	—0·5	70	4	37·1	—2·0	33	4 days	41·8	59·8	35·6	47·1	4·6	—0·1	5·9
D.I.Khan ...	57033	996·4	—2·2	994·5	1017·7	1014·6	68·7	—2·8	75	5	38·3	—2·9	34	27	41·9	65·7	38·3	54·6	7·0	—0·4	9·6
BALUCHISTAN (North).																					
Fort Sandeman ...	4614	861·7	—1·0	859·7	903·7	899·4	62·4	+2·5	70	7,8	34·3	+0·9	28	21,25	37·3	59·7	31·5	45·7	3·5	—1·7	4·9
Hindubagh	5950	821·6	—	819·8	799·4	797·5	60·5	—	70	4	32·5	...	19	24	38·9	53·2	32·9	41·4	4·3	...	4·5
Loralai	4699	858·0	—	856·6	902·6	898·1	61·5	—	67	6,27,29	31·0	...	27	25,26	35·0	57·7	29·4	43·0	3·4	...	3·8
Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sibi	441	1002·2	0·0	999·4	1017·1	1013·5	75·9	+1·0	81	3	43·3	—2·2	35	4	47·1	73·0	41·2	56·0	6·2	—0·3	7·7
Quetta	5490	833·9	—2·4	831·1	796·5	795·1	56·0	...	66	6,30	26·8	...	16	1,34	34·0	53·1	32·0	44·0	5·4	+0·4	6·6
Quetta (Samangli)	5253	843·9	...	840·4	799·7	798·5	56·8	...	67	30	23·3	...	13	3	27·9	54·4	26·1	44·4	7·7	...	4·1
Chaman	4311	871·5	—1·4	870·1	902·7	900·6	59·7	+2·7	70	8	36·4	—0·4	28	4	41·9	56·5	36·5	46·0	5·1	—0·8	6·6

(R) Register

Relative humidity %			Cloud Amount (Eighths of Sky).			PRECIPITATION.						Wind velocity miles per hour.		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.	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	
23	24	25	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
						Inches	Inches	Inches																								NORTH PUNJAB
78	—7	43	2·1	—0·3	3·4	0·06	—0·41	0·05	9	0	—1·0	1·5	+0·7	0	1	0	0	1	0	2	2	25	1	1	1	0	0	0	1	5	22	Lahore
72	—12	53	2·6	+0·5	3·7	0·12	—0·60	0·08	31	0	—1·3	0·7	0·0	2	5	0	0	0	0	0	4	20	1	2	0	0	0	0	0	1	27	Sialkot
77	...	54	3·1	...	3·5	0·01	...	0·01	31	0	...	1·5	...	1	0	1	0	0	0	3	1	25	1	0	1	0	0	1	8	3	17	Jhelum
73	—3	40	3·2	+0·6	3·5	0·00	—1·24	0·00	...	0	—2·3	2·0	+0·8	0	0	0	0	0	0	1	0	30	0	0	2	0	0	0	16	0	13	Rawalpindi
67	+6	32	1·2	—1·3	3·0	0·00	—0·43	0·00	...	0	—0·9	2·0	+0·1	1	7	2	1	2	1	0	2	15	1	6	3	2	1	1	3	4	10	Khushab
81	+5	43	1·9	—1·3	3·2	0·01	—0·24	0·01	9	0	—0·8	1·0	—0·2	1	0	0	0	1	2	2	1	24	1	0	0	0	0	1	1	4	24	Lyallpur
																																SOUTH PUNJAB.
71	—6	37	1·2	—0·6	1·9	0·09	—0·17	0·09	13	0	—0·8	0·8	—0·8	3	0	0	3	1	2	2	3	17	0	0	0	0	0	6	2	3	20	Montgomery
																																Multan (R)
67	...	44	1·8	...	2·5	0·30	...	0·30	8	1	...	2·8	...	4	3	10	5	2	0	0	0	7	9	5	2	1	1	1	2	4	6	Fort Abbas
72	—2	42	1·2	—0·7	0·5	0·05	—0·17	0·05	9	0	—0·6	1·4	—0·2	0	5	0	1	1	1	0	1	22	2	2	0	0	1	2	1	0	23	Bahawalpur
																																Khanpur (R)
																																N.W.F.P. (Upper)
68	...	43	3·0	...	2·7	0·11	...	0·11	9	1	...	3·0	...	0	0	0	0	0	23	0	6	2	0	2	0	3	1	13	1	1	10	Chakdara
45	—20	37	3·4	—0·6	3·7	0·07	—0·60	0·07	9	0	—1·6	2·1	+1·0	1	0	0	1	6	7	1	0	15	2	0	0	1	1	0	0	1	26	Peshawar
																																Landikotal (R)
																																N.E.W.F.P. (Lower)
57	—3	46	3·3	+1·1	3·4	0·06	—0·34	0·05	30	0	—1·5	2·1	...	0	0	0	1	0	2	10	6	12	1	0	4	8	2	0	0	0	16	Bannu
52	—2	38	2·1	—0·9	2·6	0·35	—0·35	0·16	9	2	+0·2	3·7	+1·1	6	6	1	0	0	1	1	7	9	0	1	11	12	2	0	1	0	4	Miranshah
65	—7	18	2·2	—0·1	2·3	0·00	—0·24	0·00	...	0	—0·7	0·6	0·0	3	1	0	0	0	0	5	0	22	1	0	0	0	0	0	0	0	30	D. I. Khan
																																BALUCHISTAN (North).
49	—24	30	2·9	+0·3	2·9	0·20	—0·37	0·16	8	1	+0·8	2·0	+0·8	1	0	0	0	0	0	0	0	30	2	1	1	0	0	1	1	0	25	Fort Sandeman
54	...	36	2·4	...	2·9	0·35	...	0·32	9	1	...	7·0	...	0	1	1	0	0	6	16	4	3	0	0	2	1	0	21	7	0	0	Hindubagh
49	...	23	2·0	...	2·4	0·00	—0·50	0·00	...	0	—1·5	3·1	...	0	0	0	0	0	2	23	0	6	0	0	4	4	8	2	3	0	10	Loralai
																																Harnai
...	...	...	...	...	...	0·00	—0·77	0·00	...	0	—1·4	...	...																			
24	—26	29	2·1	—0·2	2·2	0·00	—0·30	0·00	...	0	—0·7	1·0	—0·5	1	1	1	1	0	1	1	1	24	0	1	2	6	2	6	4	0	10	Sibi
71	—2	46	2·7	0·0	3·0	0·24	...	0·10	9,12	2	...	3·3	+1·6	4	4	0	2	5	3	1	0	12	9	8	0	0	1	3	3	7	0	Quetta
78	...	38	2·4	...	3·1	0·31	...	0·19	9	1	...	2·8	...	2	1	4	1	0	0	0	0	23	1	0	0	0	1	2	9	14	4	Quetta (Samungli)
57	—3	43	3·4	+0·5	3·0	0·18	—1·17	0·07	9	0	—3·2	...	...	0	1	11	10	3	2	0	0	4	1	[illegible]	0	1	0	7	14	4	4	Chaman

not received.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of bar ritten above mean sea level 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.		
		Mean 0030 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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
BALUCHISTAN (North)—Contd.																					
Nushki	3412	904·9	...	904·1	906·6	905·7	65·5	...	76	8	44·9	...	35	23,24	50·7	63·1	45·3	52·1	8·1	...	8·8
Kalat	6616	801·6	0·0	799·8	799·0	797·3	56·5	+1·2	64	5	26·4	+0·3	15	1,24	31·9	52·1	...	44·7	...	...	7·3
Dalbandin ...	2785	921·9	—0·4	919·1	902·4	900·8	67·7	+2·5	79	8,30	34·4	—0·6	25	5,24	38·8	66·2	33·9	52·0	4·7	—1·9	7·6
Nokkundi ...	2229	939·4	...	937·0	1019·4	1013·2	71·4	+0·5	82	30,31	42·3	—1·1	31	24	45·6	69·3	37·9	50·3	4·6	—1·3	4·7
BALUCHISTAN (South).																					
Las Bela... ...	292	1006·8	—0·6	1003·0	1017·2	1013·1	81·6	—1·7	84	1	51·3	+2·3	41	3	57·1	80·7	51·6	65·4	15·6	+4·6	16·4
Ormora	15	1015·5	...	1012·8	1016·0	1013·3	78·3	+0·9	84	20	59·5	+0·6	50	2	64·7	75·7	60·5	67·7	16·2	+1·2	19·5
Pasni	10	1015·7	—1·8	1013·5	1016·0	1013·8	78·8	+0·9	86	22	56·5	—0·1	49	4	59·8	76·0	57·0	69·4	14·5	+0·4	21·7
Turbat	510	999·8	...	996·5	1017·1	1014·3	82·4	...	88	30	54·2	...	40	3	62·1	81·4	54·1	63·4	10·7	...	12·0
Panjgur	3177	907·3	—1·5	905·4	901·4	899·8	69·5	+3·0	77	29,30	...	...	...	...	43·6	67·4	37·4	50·1	5·4	—1·2	5·1
SIND (Upper)																					
Reti	280	1007·5	...	1004·8	1017·9	1014·6	77·3	...	86	6,30	41·9	...	33	8	45·5	74·0	41·6	57·8	7·1	...	9·1
Jacobabad ...	183	1010·3	—1·9	1007·2	1017·1	1013·7	76·1	+1·7	80	1,20,21	47·8	+1·3	39	21	51·7	73·4	46·0	58·1	8·1	—0·6	9·5
Sukkur	221	1008·4	—2·0	1006·0	1016·5	1013·7	73·8	—2·4	80	1,3	...	...	...	...	52·2	73·7	47·6	57·4	9·0	—0·2	9·2
Pad Idan ...	153	1011·4	...	1008·7	1017·1	1014·0	77·1	...	81	21	43·9	...	37	5	46·8	74·9	45·3	61·1	9·7	...	12·0
SIND (Lower)																					
Umarkot ...	55	1014·3	...	1010·9	1016·4	1012·8	...	...	...	...	44·2	...	38	6,22,24	53·9	77·8	49·5	67·1	10·2	...	18·1
Hyderabad ...	96	1013·0	—1·9	1010·2	1016·5	1013·6	80·5	+1·9	88	21	53·1	+0·5	47	4	56·1	78·1	51·4	61·4	11·2	+2·1	11·4
Karachi (Drig Road) ...	73	1013·8	...	1011·0	1016·4	1013·6	81·0	...	85	4,6,20	52·4	...	44	3	59·7	76·7	52·8	66·9	10·6	...	18·1
Karachi (Manora)	13	1015·4	—2·1	1013·0	1015·9	1013·5	79·2	+0·5	82	1,14	61·0	+0·9	54	25	63·2	75·7	58·0	65·4	14·0	+2·1	16·5
Badin	31	1015·4	—0·9	1011·8	1016·5	1012·9	83·5	+3·0	89	19	51·3	—0·5	41	25	55·1	80·2	51·8	62·1	11·6	+1·6	11·0
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN.																					
Murree	7113	784·2	—1·9	783·4	796·4	795·5	48·4	—2·3	57	5	34·7	—0·2	28	10	38·1	39·9	32·5	33·8	4·3	0·0	4·4
Cherat	4272	871·9	—1·3	870·4	901·6	900·0	54·9	+1·1	64	5	42·5	+0·1	37	11,13	45·7	50·0	35·8	38·8	3·2	—1·8	4·4
Drosh	4806	858·0	...	854·5	905·8	901·2	51·8	+1·3	60	3	36·1	+0·5	30	23,24	38·5	47·6	31·5	36·3	3·2	—2·0	2·8
Parachinar ...	5673	827·9	—1·3	826·5	796·4	795·7	55·5	+0·7	66	3	32·6	+0·1	28	23,25	35·8	48·0	30·8	38·1	4·1	—1·2	4·1
Wana	4456	...	...	...	...	...	58·6	—1·3	66	5	28·5	—1·0	22	24,25	33·8	54·9	29·9	43·2	4·1	—0·7	5·1
AFGHANISTAN.																					
Jalalabad (R) ...	1950																				
Kabul	5955	821·6	...	819·6	798·5	797·6	48·9	+1·3	59	3,8	25·6	—1·1	14	26	29·9	45·4	26·0	36·5	3·4	—0·3	4·1
Kandahar ...	3462	907·7	...	905·0	911·4	908·5	63·3	...	73	8	29·6	...	23	24	34·0	58·6	33·1	52·0	6·1	...	10·6

(R) Regular

Relative humidity %			Cloud Amount (Eighths of Sky).			PRECIPITATION.						Wind velocity miles per hour.		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.	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	
23	24	25	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
						Inches	Inches	Inches																								BALUCHISTAN (North)—Contd.
65	...	45	2·0	...	2·4	0·08	...	0·08	9	0	...	7·5	...	3	4	12	2	2	1	2	1	4	1	0	1	0	2	2	16	9	0	Nushki
...	...	59	2·2	0·0	2·6	0·25	—0·69	0·18	9	1	—1·2	4·7	+1·3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	28	0	Kalat
59	—10	35	2·0	—0·3	2·3	0·00	—0·68	0·00	...	0	—1·8	3·2	+0·8	1	6	6	0	0	0	2	0	16	1	6	9	0	0	0	4	0	11	Dalbandin
45	—9	20	2·5	—0·2	2·6	0·00	—0·14	0·00	...	0	—0·3	4·0	—0·2	12	1	2	0	0	0	2	7	7	1	0	5	2	2	2	2	10	7	Nokkundi
																																BALUCHISTAN (South).
68	—7	40	1·3	0·0	1·5	0·00	—0·56	0·00	...	0	—0·7	1·8	+0·3	5	0	1	0	0	1	0	4	29	1	1	3	3	16	0	0	2	5	Las Bela
86	+9	65	1·6	—0·5	2·0	0·02	—0·62	0·02	10	0	—1·2	4·2	+0·5	0	0	5	2	1	1	1	1	20	0	0	1	4	3	10	11	0	2	Ormara
85	+10	69	1·1	—0·7	1·3	0·00	—0·84	0·00	...	0	—1·5	8·5	—4·1	1	2	1	0	0	1	13	3	10	0	2	0	0	10	8	11	0	0	Pasni
56	...	32	0·0	...	0·0	0·00	...	0·00	...	0	...	2·1	...	0	14	3	4	0	4	0	0	6	0	7	1	0	2	7	8	1	5	Turbat
55	—8	22	2·2	0·0	1·8	0·09	—0·48	0·09	9	0	—1·4	3·9	—0·2	1	19	7	1	0	1	0	0	2	10	0	0	0	0	8	9	3	1	Panjgur
																																SIND (Upper)
69	...	32	1·2	...	0·9	0·00		0·00	...	0	...	3·4	...	4	6	3	1	2	3	3	2	7	4	4	3	0	1	3	7	1	8	Reti
61	—7	35	1·7	+0·1	1·5	0·19	+0·02	0·19	9	1	+0·5	2·9	+0·9	1	4	4	3	1	0	1	7	10	1	1	3	5	6	0	3	10	2	Jacobabad
69	+4	32	1·6	+0·3	1·5	0·00	—0·03	0·00	...	0	—0·2	1·5	—0·7	1	3	5	14	1	0	0	0	7	4	7	2	5	1	2	1	1	8	Sukkur
88	...	41	1·5	...	1·5	0·00	...	0·00	...	0	...	2·4	...	4	3	0	0	2	1	2	4	15	10	2	0	2	1	1	1	3	11	Pad Idan
																																SIND (Lower)
71	...	58	0·0	...	0·0	0·00	...	0·00	...	0	...	3·2	...	6	7	2	3	4	1	1	1	6	1	1	0	0	5	3	14	6	1	Umarkot
69	+11	33	0·8	—0·6	0·6	0·00	—0·10	0·00	...	0	—0·3	2·2	—1·3	16	1	1	1	2	4	0	0	6	16	1	0	1	3	3	2	1	4	Hyderabad
75	...	57	2·3	...	1·6	0·00	...	0·00	...	0	...	3·4	...	6	7	1	0	0	0	1	0	16	0	2	2	1	3	15	8	0	0	Karachi (~~Drig Road~~) A.S.
71	+9	56	2·3	+0·5	1·7	0·00	—0·20	0·00	...	0	—0·5	4·2	—0·9	0	11	5	0	3	0	1	0	11	0	1	1	1	1	13	13	1	0	Karachi (Manora)
72	+11	31	0·9	—0·4	0·4	0·00	—0·15	0·00	...	0	—0·4	1·7	...	9	4	0	0	0	3	1	1	13	7	6	0	0	0	1	3	1	13	Badin
																																HILL STATIONS (excluding Kashmir and Baluchistan).
56	+8	56	3·6	+0·5	4·3	0·59	—1·21	0·31	10	2	—1·2	5·5	+1·1	0	9	8	1	0	0	1	2	10	0	3	7	4	0	0	5	2	10	Murree
32	—16	30	1·9	—1·0	2·3	0·12	—1·44	0·12	9	1	—1·2	10·0	+1·5	30	0	0	0	1	0	0	0	0	23	0	0	0	7	0	1	0	0	Chitral
42	—23	25	3·4	—0·1	3·7	0·28	—0·92	0·25	30	1	—2·2	3·9	+2·1	0	4	4	4	0	1	1	0	17	0	0	2	17	1	4	0	0	7	Drosh
59	—4	37	2·7	—0·3	3·6	0·61	—0·62	0·24	31	3	+0·1	2·5	+0·8	8	2	0	1	0	0	0	2	18	0	0	7	18	1	0	0	0	5	Parachinar
64	—6	34	1·3	—0·3	1·3	0·00	—0·70	0·00	...	0	—1·8	2·2	...	0	0	0	0	1	6	0	0	24	0	0	1	14	0	7	0	1	8	Wana
																																AFGHANISTAN
																																Jalalabad (R)
62	—8	44	3·9	+0·1	3·4	0·56	—0·01	0·16	9,31	3	+1·4	3·8	+1·6	2	1	1	1	7	8	4	4	3	6	7	5	1	3	3	2	2	2	Kabul
88	...	63	2·5	...	3·8	0·33	...	0·13	12	2	...	0·8	...	0	0	0	0	0	0	0	0	31	0	0	0	0	0	7	0	0	24	Kandahar

not received.

TABLE III—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS.

STATIONS.	Height of bar. cistern above mean sea level in feet.	Pressure at Stations 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.		
		Mean 0030 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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
IRAN.																					
Jask (R) ...	13																				
ARABIA.																					
Muscat	20	1016·2	...	1014·4	1016·7	1014·9	76·0	—2·1	81	31	67·1	—1·6	61	3	68·9	73·5	62·9	65·2	17·0	...	17·4
Kuwait (*) ...	16	1018·4	...	1016·2	1018·9	1016·7	68·1	...	76	6	54·5	...	40	3	57·1	64·6	54·6	60·7	13·4	...	16·2

(R) Register not received. (*) Recorded at 0500 hrs. G.M.T.

Relative humidity %			Cloud Amount (Eighths of Sky.)			PRECIPITATION.						Wind velocity miles per hour.		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.	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	
23	24	25	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
						Inches	Inches	Inches																								
																																IRAN.
																																Jask (R)
																																ARABIA.
70	...	63	0·8	—1·4	0·5	0·00	—0·70	0·00	...	0	—1·6	3·4	+0·3	0	0	0	0	0	0	8	4	14	0	2	1	1	0	0	2	(c) 16	4	Muscat
84	...	80	(a) 3·3	...	(a) 3·1	0·57	...	0·17	7	4	...	5·2	..	2	0	2	4	1	2	4	10	5	1	2	4	3	1	0	4	10	5	Kuwait (*)

instead of 0300 hrs. G.M.T. (a) Mean of 30 days. (c) Mean of 26 days.

TABLE IV—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 4TH CLASS STATIONS—DECEMBER, 1949.

STATION.	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature °F 0300 hrs. G.M.T.	Mean wet bulb temperature °F 0300 hrs. G.M.T.	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 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
																Inches	Inches	Inches					
EAST BENGAL (North).																							
Pabna	78·8	—1·0	87	2	...	...	...	...	65·5	58·9	13·8	—2·4	65	—11	...	0·00	—0·15	0·00	...	0	—0·3	...	...
KASHMIR																							
Jammu (x)																							
Kargil (x)																							
IRAN.																							
Zahidan																							

(x) Data not available.

TABLE V—ABSTRACT OF OBSERVATIONS RECORDED AT 0300 HRS. G.M.T. AT 5TH CLASS STATIONS—DECEMBER, 1949.

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
		Inches	Inches	Inches			
EAST BENGAL (North)							
	Rajshahi (R)						
	Rangpur	0·00	—0·08	0·00	...	0	—0·2
KASHMIR							
	Sonemarg (x)						
	Gurez (x)						
BALUCHISTAN (North)							
	Harnai						

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

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