Pakistan. Meteorological Dept.

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PAKISTAN WEATHER REVIEW, 1947

MONTHLY WEATHER REPORTS,

AUGUST.

PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN

Summary :—The chief feature of the weather during August 1947 was the development of a cyclonic storm over North Cutch and lower Sind towards the end of the month, which brought in abundant rains and was responsible to a large extent for making up the deficiency of rainfall in West Pakistan.

West Pakistan :—The weather in West Pakistan remained mainly dry during the first week. Local thundershowers in the northwest Punjab and a few dust or thunderstorms in North Baluchistan occurred in the second and the third week while isolated dust or thunderstorms were reported on some of the days during this period from elsewhere. A shallow low travelling westwards accentuated the seasonal low over Baluchistan on the 22nd and caused scattered thundershowers in the West Punjab and the N.-W. F. P. from the 22nd to 25th and scattered dust or thunderstorms in North Baluchistan and Sind on the 22nd and 23rd. A depression which formed in the North Bay of Bengal on the 19th after travelling across India moved over to north Cutch and lower Sind and intensified there into a cyclonic storm on the 30th with its centre about 100 miles south south-east of Hyderabad, which remained practically stationary. This strengthened and extended the monsoon into West Pakistan and caused fairly widespread and locally heavy thundershowers in Sind from the 28th to the end of the month, the north-west Punjab on the 28th and 29th and the south-west Punjab on the 29th and local or scattered thundershowers elsewhere from the 26th to the end of the month.

Temperatures were above normal up to the 24th, became normal by the 28th and due to rain cooling fell below normal thereafter.

The total rainfall of the month was in large excess in lower Sind, in moderate excess in Baluchistan, normal in upper Sind and in slight to moderate defect elsewhere. The mean maximum temperature was above normal in the lower N. W. F. P., north Baluchistan and lower Sind while the mean minimum was above normal in North Baluchistan. Humidity was in excess in North Baluchistan and the skies were more clouded than usual in upper Sind and the West Punjab and less clouded than usual in the lower N.-W. F. P.

East Pakistan :—The formation of (i) a shallow low over East Bengal on the 5th, (ii) a shallow land depression over south-west Bengal and North Orissa on the 17th, (iii) a depression in the north Bay on the 27th and (iv) another depression in the northwest Bay on the 27th maintained the normal activity of monsoon in East Pakistan during the month where fairly widespread rain occurred during the first week and on the 11th and 12th and from the 21st to 25th. A few heavy falls were also recorded during this period—the chief amount being 8 inches at Chittagong on the 5th. Rain occurred locally in East Pakistan on the remaining days of the month.

Day temperatures were generally above normal during the second fortnight.

The total rainfall of the month was in moderate excess in the deltaic Sub-Division, normal in the northern Sub-Division and in slight defect in the eastern Sub-Division. The other climatic elements were normal in all the three Sub-Divisions of East Pakistan.

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

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TABLE I.—DIVISIONAL AND SUB-DIVISIONAL MEANS—AUGUST 1947

DIVISION	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							8 hrs. I. S. T. (02 30 HRS. G.M.T.)		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour Pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb	%	
1. East Bengal	13·95	14·59	—0·64	—4	+0·5	+0·3	+0·1	0	+0·1
Mean of East Bengal	13·95	14·59	—0·64	—4	+0·5	+0·3	+0·1	0	+0·1
2. West Punjab	3·89	4·67	—0·78	—17	+0·4	+2·0	+1·6	0	+0·8
3. N.-W. F. P.	1.42	1·81	—0·39	—22	+2·1	+1·2	0.0	—2	—0·5
4. Baluchistan	0·89	0·71	+0·18	+25	+1·8	+3·0	+3·3	+7	—0·4
5. Sind	2·43	1·58	+0·85	+54	+2·1	+1·4	+1·1	—2	+0·5
Mean of West Pakistan excluding Baluchistan ...	2.98	3·14	—0·16	—5	+1·3	+1·7	+1·2	—1	+0·5
SUB-DIVISION									
1. East Bengal (North)	11·14	11·77	—0·63	—5	+0·5	+0·3	+0·7	—1	—0·1
2. East Bengal (East)	15·09	17·97	—2·88	—16	+0·6	+0·9	—0·7	—1	—0·2
3. East Bengal (Deltaic)	16·35	12·52	+3·83	+31	+0·1	—1·0	+1·2	+2	+0·7
4. Kashmir*	*	*	*	*	*	*	*	*	*
5. North West Punjab	5·23	6·14	—0·91	—15	—0·4	+2·4	+1·4	0	+0·9
6. South West Punjab	1·65	2·22	—0·57	—26	+1·9	+1·4	+1·8	+1	+0·5
7. N.-W. F. P. (Upper)	1·69	2·03	—0·34	—17	—0·3	+0·8	+1·4	+3	—0·2
8. N.-W. F. P. (Lower)	1·33	1·73	—0·40	—23	+2·8	+1·3	—0·4	—4	—0·6
9. Baluchistan (North)	1·10	0·86	+0·24	+28	+2·3	+4·3	+4·3	+11	—0·1
10. Baluchistan (South)	0·53	0·42	+0·11	+26	+1·1	+1·4	+1·8	+1	—0·8
11. Sind (Upper)	0·93	1·00	—0·07	—7	+1·5	+1·7	0.0	—5	+1·5
12. Sind (Lower)	3·44	1·97	+1·47	+75	+2·5	+1·1	+1·8	0	—0·2

*Data incomplete.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T.

STATION	Height of bar. cistern above mean sea level in feet	Pressure reduced to 32°F and standard gravity, Millibars			Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure, millibars			Relative humidity		
		Mean 8 hrs. I.S.T.	Departure from normal	Mean 17 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal	Mean 17 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
EAST BENGAL (North)																						
Bogra	63	1001·5	+1·1	997·9	89·9	+1·1	95	17	76 7	—1·9	75	21	82·9	87·0	79·7	80·9	33·6	+0·5	33·4	86	—2	76
Dinajpur (R) ...	123																					
EAST BENGAL (East)																						
Cox's Bazar ...	38	1004·0	+1·3	1001·6	86·8	+1·5	91	16,23	77·0	+0·9	75	1,5,8	82·1	82·1	78·6	78·6	31·7	+0·3	31·7	84	—5	85
Chittagong	87	1002·3	+1·2	999.3	86.7	+0·8	93	16	76·9	+0·5	74	7,8	81·8	82·5	77·8	78·8	30·9	—0·1	32·0	83	—4	84
Noakhali	22	1003·4	+0·7	1000.8	87·0	+1·3	93	16	78·0	—0·2	74	5	81·8	84·7	79·7	80·9	34·1	+1·8	34·3	91	+2	85
Comilla	29	1003·8	+1·0	1000·3	88·1	+0·6	93	17,23	77·6	+0·7	75	2,7	81·9	84·8	78.4	80·2	31·7	—0·1	26·2	85	—1	81
Narayanganj (R) ...	26																					
Brahmanbaria ...	32	1003·7	...	999·8	89·0	—0·4	93	16,17,29	79·0	+2·8	75	1	82·8	85·4	75·7	80·2	27·5	—3·0	32·7	84	+3	79
Srimangal ...	69	1002·9	+1·3	999·2	89·5	—0·6	96	17	76·9	+0·8	75	2,6	80·4	85·5	77·9	80·4	31·1	—0·5	32·7	89	+2	80
Mymensingh ...	62	1002·8	+1·5	999·2	89·5	+1·8	95	17	78·3	0·0	74	23	83·0	85·9	79·8	80·9	32·0	—0·5	33·9	87	—1	80
EAST BENGAL (Deltaic)																						
Faridpur (R) ...	46																					
Barisal	11	1003·8	+1·5	1001·2	87·3	+0·3	94	16	76·0	—2·3	63	24	81·8	83·3	79·3	79·7	33·3	+0·7	32·0	90	+2	83
Khulna (R) ...	16																					
Jessore	26	1002·3	+0·9	1000·1	88·8	+0·7	95	17	77·6	—0·2	75	5 days	83·0	85·7	80·8	82·2	35·3	+2.0	36·3	90	+2	85
Satkhira	16	1003·0	+7·7	999·9	87·8	—0·7	95	16	77·9	—0·5	73	12	82·6	84·5	80·3	80·7	34·4	+0·9	34·3	90	+2	84
KASHMIR																						
Srinagar*	5205																					
Gulmarg*	8709																					
Dras*	10059																					
Leh*	11529																					
Skardu*	7505																					
Gilgit*	4890																					
Misgar	10,190	698·8	—	695·5	79·1	—	86	5,21	49.2	—	39	29,30	59·0	77·4	46·4	52·9	6·9	—	6·0	42	—	20
NORTH WEST PUNJAB																						
Lahore	702	977·6	+1·7	974·7	96·5	—0·5	109	2	80·5	+1·8	73	4 days	83·3	92·9	77·6	79·6	29·8	+0·1	28·5	78	+2	58
Sialkot (d)	830	973·9	+1·8	970·9	94·1	—0·1	106	5	78·7	+0·5	71	29	83·1	91·2	78·0	80·0	30·4	—0·4	29·9	80	—6	61
Rawalpindi	1,674	945·9	+1·6	943·0	90·6	—3·1	104	2,5	80·7	+5·2	68	17	80·8	89·7	78·1	78·7	31·8	+4·1	29·0	80	+4	54
Jhelum	765	975·9	—	973·4	92·2	—	107	5	78·8	—	71	14	82·4	92·5	78·4	83·0	31·3	—	34·3	81	—	69
Khushab	616	979·5	+0·6	976·2	100·1	+0·3	112	2,4	82·8	+1·7	72	28	86·0	98·1	80·7	81.5	33·4	+3·7	29·2	75	+2	48
Lyallpur	605	979·9	+1·1	977·0	99·2	+1·2	108	3,4	83·2	+2·7	72	29	85·7	97·0	77·6	80·0	28·6	—0·4	27·2	70	—3	48
SOUTH WEST PUNJAB																						
Montgomery	558	981·6	+1·2	978·9	99·7	—0·4	107	2	82·9	+1·2	73	29	85·8	97·2	78·1	80·0	29·4	—1·6	27·1	70	—7	43
Multan	413	985·9	+1·1	983·1	103·3	+4·4	111	17	85·0	+2·1	75	29	87·1	101·4	80·8	85·0	33·0	+1·4	33·8	76	—0	51
Fort Abbas (R) ...	475																					
Bahawalpur (R) ...	384																					
Khanpur	297	989·5	+0·4	986·2	104·0	+1·7	109	1.2	82·1	+0·8	74	29	85·3	102·6	80·7	90·5	33·7	+5·7	43·4	80	+9	62

*Data not available.

(d) 8 Hrs. Data available for 27 days.

(0230 HRS. G.M.T.) AND 1700 HRS. I.S.T. (1130 HRS. G.M.T.)—AUGUST 1947.

Cloud amount, (tenths of sky)			Rainfall, inches.				Number of rainy days (0·10 or more.)		Wind velocity miles per hour.		Wind Direction—Number of Winds from :— 8 hrs. I.S.T.									17 hrs. I.S.T.									STATION
Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	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	
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
																													EAST BENGAL North
7·5	—0·1	6·4	7·25	—5·75	2·88	20	11	—5·4	2·6	+0·6	1	2	14	6	3	4	0	0	1	0	1	10	12	4	0	2	0	2	Bogra.
																													Dinajpur (R)
																													EAST BENGAL (East)
6·8	—0·9	6·0	13·45	-14·30	2·76		16	—5·9	5·0	+0·6	0	1	0	10	6	1	0	0	13	0	0	0	15	5	2	0	0	9	Cox's Bazar.
7·2	—0·7	8·8	27·88	+7·46	8·40	5	18	+0·9	6·0	—1·3	1	0	7	14	2	0	2	0	5	1	0	0	8	12	3	2	1	4	Chittagong.
7·8	+1·0	6·9	24 20	—0·13	3·80	6	20	—2·9	11·1	+5·6	1	2	1	10	13	2	1	0	1	1	0	0	12	12	4	1	1	0	Noakhali.
7·6	+0·6	7·6	21·97	+4·79	4·16	12	19	+1·2	6·9	+2.3	1	2	0	15	7	1	0	1	4	4	0	0	3	17	1	1	0	5	Comilla.
																													Narayanganj (R)
6·5	...	5·7	6.40	—6·26	2·12	12	11	—5·8	4·5	...	0	0	0	10	20	0	0	0	1	2	0	1	6	9	5	0	0	8	Brahmanbaria.
7·3	+0·7	6 8	5.48	—2·82	1·17	7	12	—8·1	3.3	—0·1	0	7	0	12	10	2	0	0	0	0	3	3	6	0	10	7	2	0	Srimangal.
7·6	—0·9	7·7	15·35	—0·14	2·81	1	16	—2.7	3.4	+1·2	0	2	10	9	0	1	1	0	8	0	2	5	15	1	1	2	0	5	Mymensingh.
																													EAST BENGAL (Deltaic)
																													Faridpur. (R)
8·7	+1·1	7·5	24·25	+9·31	4·46	5	22	+1·7	...	...	0	1	3	7	9	5	2	0	4	0	0	0	4	12	0	0	2	13	Barisal.
																													Khulna. (R)
7·6	—0·3	7·2	14·40	+3·36	3·36	12	15	—1·6	4·5	+1·7	0	0	6	7	8	2	2	0	6	0	0	4	12	4	7	0	0	4	Jessore.
8·6	+1·3	8·2	10·39	—1·18	1·55	17	22	+4·8	3·5	+0·9	1	2	5	6	8	1	0	0	8	2	0	2	8	8	2	0	0	9	Satkhira.
																													KASHMIR
																													Srinagar*
																													Gulmarg*
																													Dras*
																													Leh*
																													Skardu*
																													Gilgit*
2·4	—	3·1	0·28	—	0·15	29	2	—	5·7	—	5	9	5	1	0	1	3	7	0	0	1	16	7	0	1	4	2	0	Misgar.
																													NORTH WEST PUNJAB
5·5	+1·6	4·6	7·69	+2·54	1·28	31	11	+5·3	4·1	+2 2	2	2	6	9	1	3	3	1	4	0	9	9	4	2	2	2	0	3	Lahore.
5·6	+1·4	3·6	9·59	+0·29	2·15	10	11	+2·0	3·2	+1·4	2	6	5	6	2	0	0	0	6	1	10	0	6	1	2	0	4	7	Sialkot. (d)
7·2	+2·9	3·6	2·98	—6·19	1·24	22	7	—2·1	2·6	+1·0	1	5	6	8	4	0	0	0	7	1	1	2	12	9	0	1	1	4	Rawalpindi.
6·7	—	4·7	10·19	—	2.22	10	8	—	2·5	—	1	1	4	6	0	1	0	3	15	1	0	4	7	2	0	2	1	14	Jhelum.
3·0	0·0	2·3	0·56	—2·95	0·30	28	2	+1·7	6·5	+1·2	0	5	13	7	1	1	0	1	3	0	4	5	13	7	0	0	1	1	Khushab.
3·1	—1·2	4·3	5·33	+1·75	2·90	29	4	—1·3	3·5	+0·8	0	2	8	4	9	3	0	2	3	1	3	8	8	5	2	2	0	2	Lyallpur.
																													SOUTH WEST PUNJAB
4·6	+2·2	6·5	3·24	+0·34	1·21	29	5	+1·3	3·3	—1·6	1	3	3	13	4	6	0	1	0	1	1	5	12	2	7	1	1	1	Montgomery.
3·0	+0·8	2·1	0·62	—1·20	0·52	29	2	—0·5	4·7	+2·4	1	3	1	2	10	12	0	1	1	4	3	2	4	11	6	0	1	0	Multan.
																													Fort Abbas (R)
																													Bahawalpur (R)
1·2	—1·5	1·7	1·10	—0·83	1·10	29	1	—1·4	7·2	—0.1	0	3	0	0	0	28	0	0	0	0	4	0	0	0	27	0	0	0	Khanpur.

(R) Registers not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T.

STATION	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, Millibars.			Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure, millibars			Relative humidity %		
		Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
N.-W.F. P. (Upper)																						
Peshawar	1,175	961·4	+1·0	957·6	97·9	—0·3	109	3	79·7	+0·8	73	23	83·1	96·4	76·5	79·6	28·2	+1·4	26·7	73	+3	47
N.-W. F. P. (Lower)																						
Bannu	1·264	953·9	...	953·7	103·0	+3·0	112	6 days	81·3	+1·0	74	28,30	86·1	99·8	76·7	78·1	27·1	—0·1	23·0	65	—2	36
Miranshah	3,026	901·7	..	899·5	96·4	+2·9	106	2	78·5	+1·8	69	27	78·3	98·4	70·4	74·9	22·2	—0·3	19·9	57	—5	43
D. I. Khan	570	980·7	+1·2	977·2	103·1	+2·6	109	1,2,4	82·4	+1·2	74	28	85·6	101·1	78·4	82·3	29·9	—0·9	29·1	71	—5	44
BALUCHISTAN (North)																						
Fort Sandeman	4,614	854·1	+1·5	851·4	97·0	+0·1	105	5	75·4	+2·1	69	6	78·2	91·5	68·7	71·1	19·9	+0·2	17·1	62	+5	36
Loralai	4,699	849 8	...	847·7	94·8	...	98	1,2	68·3	...	63	31	74·6	89·7	67·4	70.5	20·5	...	18·2	69	...	35
Sibi *	441		...			...			...	...	...	...						...			...	
Quetta	5,490	(F) 826·8	—0·7	(G) 824·2	(G) 96·4	...	99	6 days	(G) 67·5	...	61	30	(F) 74·8	(G) 89·1	(F) 68·6	(G) 72·1	(F) 21·8	+7·1	(G) 19·9	(F) 74	+17	(G) 42
Chaman	4,311	861·7	+0·3	860·5	102·3	+4·0	106	3,18	78·1	+4·8	66	30	82·4	100·6	65·9	70 9	14·8	+3·5	14·3	40	+7	23
Kalat	6,616	796·2	+1·0	794·3	91·0	+1·2	96	5	63·1	+4·9	54	29	68·3	85·0	59·3	61·1	13·8	+3·1	9·7	57	+10	25
Dalbandin	2,785	907·7	—0·1	904·4	108·1	+2·0	112	15	79·0	+7·4	63	30,31	82·8	106·2	71.2	76·8	21·7	+9·8	19·1	56	+21	25
Nokkundi	2,229	924·5	...	921·8	111·2	+4·3	115	9 days	83·6	+2·5	75	1	86·7	109·7	67.6	73·7	16·3	+2·3	15·3	37	+5	18
BALUCHISTAN (South)																						
Las Bela	292	991·4	+0·2	987·6	102·3	+3·1	107	20,21, 28	80·0	+2·3	78	28	82·0	98·5	79·0	85·5	32·5	+2·1	36·5	87	+3	57
Ormara	15	*	...	*	88.9	+1.9	94	23	79·1	+0·6	78	6 days	81·4	85·8	78·4	79·5	31·4	+2·3	31·5	87	0	75
Pasni	10	1001·6	+0·5	988·9	89·1	+0·9	93	22	78·1	+1·8	75	15,29	80·9	86·3	77·8	79·2	31·4	+1·7	30·7	85	—3	72
Panjgur	3,177	897·5	+1·4	894·9	100·1	—0·8	107	1	74·0	+0·8	62	31	76·7	96·7	69·4	71 0	21·6	+1·1	16·0	69	+6	28
Jiwani	13	995·2	...	993·4	*	...	...	...	*	...	...	...	79·7	84·7	77·5	79·1	31·9	...	31·9	90	—	77
SIND (Upper)																						
Jacobabad	186	992·9	+0·6	990·0	104·9	+1·2	112	17	84·5	+2.3	78	1	87·0	102·4	81·2	83·9	33·4	—0·1	30·7	77	—4	45
Sukkur	221	991·9	+1·8	988·6	102·9	+1·7	107	1	81·5	+0·7	76	31	85·1	100·1	77·8	82·1	28·8	+0·3	29·1	71	—6	46
Pad Idan	153	994·2	...	991·0	104·3	...	110	19	81·5	...	75	30	84·0	101·5	77·6	81·8	29·3	...	27·8	74	...	43
SIND (Lower)																						
Umarkot	55	998·3	...	995·2	97·7	—	105	21	79·3	...	75	26	82·2	96·8	77·7	83·0	31·7	...	32·2	85	...	55
Hyderabad	96	996·5	0·0	994·4	99·6	+3·8	109	20	80·7	+1·5	78	29,30	82·5	95·9	77·6	80·3	30·5	+3·2	28·5	80	+4	51
Karachi (Manora)	13	1000·8	0·0	998·9	86·7	+0·9	90	3,22	79·7	+1·2	76	31	81·1	84·7	78·1	79·4	31·4	+1·1	31·9	87	—3	78
Badin	31	1000·0	+0·3	996·9	94·9	+2·7	104	20	80·0	+0·7	76	28	82·1	92·8	77·8	80·0	30·2	+1·1	29·5	82	0	58

(F) Mean of 25 days. (G) Mean of 24 days. *Data not available.

0230 HRS. G.M.T.) AND 1700 HRS. I.S.T. (1130 HRS. G.M.T.)—AUGUST 1947.

Cloud Amount (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more.)		Wind Velocity miles per hour.		Wind Direction—Number of Winds from :— 8 hrs. I. S. T									17 hrs. I. S. T.									STATIONS
Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	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	
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
			"	"	"																								
																													N.-W.F.P. (Upper)
3·8	—0·2	3·5	1·69	—0·34	1·33	23	2	—0·5	5·9	+3·9	11	1	0	0	1	0	0	14	4	8	16	3	0	2	0	0	0	2	Peshawar.
																													N.-W. F. P. (Lower)
2·7	+0·1	1·5	1·28	—0·61	0·56	18	4	+0·9	4·3	—	7	8	0	6	0	0	1	9	0	5	0	1	8	0	0	0	2	15	Bannu.
1·5	—1·3	2·9	2·27	+1·06	0.83	26	5	+2.4	8·3	+2·1	0	4	2	1	0	0	0	1	23	0	1	19	8	1	1	0	0	1	Miranshah.
1·6	—0·7	1·1	0·45	—1·45	0·45	28	1	—1·[illegible]	3·2	+1·5	3	13	0	5	0	0	1	2	7	1	11	6	6	3	1	0	0	3	D. I. Khan.
																													BALUCHISTAN (North)
2·7	+0·8	6·2	1·80	—0·10	1·04	6	4	+0·2	3·7	+1·4	0	2	7	1	0	1	4	1	15	3	5	6	8	5	2	1	1	0	Fort Sandeman.
2·5	...	4·4	2·61	+1·39	2·25	31	3	+1·1	4·0	...	0	0	2	0	1	1	9	1	17	0	0	4	10	13	3	0	1	0	Loralai.
F 0·7	—0·6	(G) 3·4	(G) 0·02	...	0·02	18	0	...	H 6·5	+4·2	0	0	0	1	8	2	2	0	12	4	2	1	0	4	2	1	3	7	Sibi.* Quetta.
0·0	—0·8	0·3	0·00	—0·04	0·00	...	0	—0·1	5·4	+0·2	0	0	6	9	6	2	1	0	7	0	0	0	1	0	14	1	15	0	Chaman.
2·1	+0·4	4·9	0·18	—0·15	0·18	18	1	+0·1	5·0	+0·5	0	0	0	5	21	0	1	0	4	1	3	2	4	5	6	3	6	1	Kalat.
1·1	0·0	1·0	0·00	—0·13	0·00	...	0	—0·2	4·9	0·0	0	0	0	0	1	0	3	0	27	1	1	0	3	2	5	1	7	11	Dalbandin.
0·3	—0·7	0·2	0·00	0·00	0·00	...	0	0·0	8·4	—5·4	9	8	3	0	1	1	0	5	4	0	6	4	0	1	0	1	18	1	Nokkundi.
																													BALUCHISTAN (South)
4·2	—1·8	1·8	0·53	—0·53	0·23	28	2	0·0	3·9	+0·6	0	0	3	8	6	5	2	1	6	2	2	2	7	16	1	0	1	0	Las Bela.
4·9	—2·8	1·7	0·00	—0·11	0·00	...	0	—0·3	11·9	+2·0	0	0	0	1	1	11	16	1	1	0	0	0	1	3	15	11	1	0	Ormara.
5·6	—1·2	2·2	0·05	—0·12	0·05	6	0	—0·3	8·6	+2·1	0	0	4	1	1	10	7	3	5	0	0	0	4	1	21	4	1	0	Pasni.
4·2	+2·5	2·8	1·53	+1·[illegible]	0·73	22	3	+2·3	6·5	+1·9	0	2	1	1	1	5	2	1	18	4	2	1	1	3	7	9	3	1	Panjgur.
7·3	...	4·0	0·00	...	0·00	...	0	...	*	...	0	0	3	2	14	7	2	0	3	0	0	1	2	20	8	0	0	0	Jiwani.
																													SIND (Upper)
4·1	+2·3	3·0	0·35	—0·53	0·55	31	1	—0·3	9·3	+2·6	1	4	4	17	3	1	0	0	1	0	4	4	21	2	0	0	0	0	Jacobabad.
2·6	+0·7	2·1	1·50	+0·38	0·94	31	2	+1·0	4·4	—0·7	0	4	0	18	7	1	0	0	1	5	2	0	7	6	6	0	2	3	Sukkur.
3·6	...	3·1	1·52	...	0·9[illegible]	30	3	...	10·4	...	3	2	0	17	8	1	0	0	0	2	4	0	12	7	3	0	1	2	Pad Idan.
																													SIND (Lower)
6·3	...	6·0	3·35	...	1·55	28	3	...	9·9	...	0	2	2	0	10	16	1	0	0	1	0	5	2	1	19	3	0	0	Umarkot
5·9	+1·3	4·9	2·09	+0·06	0·83	29	4	+1·8	9.7	—0·6	3	0	1	0	5	14	8	0	0	2	2	0	2	6	14	5	0	0	Hyderabad.
8·1	+0·2	6·1	1·86	+0·30	1·07	21	4	+2·4	11·6	—0·3	1	1	0	1	1	10	15	2	0	0	1	0	0	1	17	12	0	0	Karachi (Manora)
4·1	—2·4	3·4	6·37	+4·05	2·98	29	4	+1·7	7·1	...	2	1	0	1	2	20	4	0	1	2	1	1	1	3	17	5	1	0	Badin.

(H) Mean 23 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T.

STATION	Height of bar. cistern above mean sea level in feet	Pressure reduced to 32°F and standard gravity Millibars			Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure millibars			Relative humidity %		
		Mean 8 hrs. I.S.T.	Departure from normal	Mean 17 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal	Mean 17 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
HILL STATIONS (Excluding Kashmir & Baluchistan)																						
Murree	7,113	782·1	+0·7	781·6	72·8	—0·4	80	5	59·8	+2·4	55	28	64·1	70·5	60·7	66·1	16·9	—0·8	20·3	84	—4	80
Cherat	4,272	864·5	+1·1	862·8	86·9	+1·5	98	2	70·9	+1·0	65	14,28	73·8	85·1	69·0	72·7	22·3	+0·8	22·4	81	0	57
Drosh	4,806	848·4	0·0	843·0	97·6	+2·4	105	11	75·9	+3·3	59	30	77·5	93·7	66·3	68·0	17·5	—0·6	12·9	56	—7	25
Parachinar	5,673	823·2	+1·5	821·5	83·4	—1·3	93	5	67·5	+2·7	60	29	71·0	81·5	65·1	68·0	19·0	+1·3	18·5	74	+6	53
Wana	4,456	856.3	...	854·3	91·8	—0·4	99	4,5	73·3	+3·2	65	30	75·6	86·3	69·5	71·0	21·9	+2·3	19·0	48	+5	47
AFGHANISTAN																						
Jalalabad (R)	1,950																					
Kabul	5,955	816·7	...	813·6	94·6	+3·6	101	5	62·2	+3·9	57	1	70·5	91·5	58·3	67·0	12·2	+1·7	13·7	49	+7	29
Kandahar	3,462	889·0	...	885·9	108·2	...	112	7 days	68·9	...	55	30	79·0	106·3	60·9	72·2	11·1	...	13·0	36	...	17

R=Register not Received.

TABLE III.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION	Height of bar cistern above mean sea level in feet.	Pressure at station level 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	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 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
IRAN																						
Jask	13	998·8	...	996·6	90·3	—4·2	95	1	83·1	—0·7	81	16,20,21	84·1	88·3	79·2	80·7	31·6	—2·5	32·1	80	+3	71
Bushire	14	998·4		997·6	96·1	—0·3	102	28	84·9	+0·7	80	4,15	88·6	94·6	79·9	83·9	31·7	—2·0	35·7	67	—5	63
Meshed	3,104	893·3		890·9	95·1	+3·3	103	6,17	57·6	0·0	44	30	73·7	89·9	61·4	68·7	13·6	+1·4	15·7	50	+4	35
ARABIA																						
Muscat	15	999·5	...	998·2	87·2	—3·5	96	30	81·4	—2·1	76	24,26,27	83·4	84·4	79·6	79·9	32·0	—1·0	32·4	84	+1	82
Sharjah	18	998·7	...	996·3	102·3	0·0	109	20	85·5	+3·2	81	14,21	91·9	96·8	81·2	86·2	32·4	+1·9	38·8	63	—1	63
Bahrain	28	998·3		997·2	97·6	—2·4	105	31	85·2	—0·1	79	4	90·0	95·7	83·0	84·4	35·4	—0·3	35·2	74	+1	61

(0230 HRS. G.M.T.) AND 1700 HRS. I.S.T. (1130 HRS. G.M.T.)—AUGUST 1947.

Cloud Amount (Tenths of sky)			Rainfall, Inches				Number of Rainy days (0.10" or more)		Wind Velocity miles per knots		Wind Direction—Number of Winds from :—																			
											8 hrs. I.S.T.									17 hrs. I.S.T.										STATIONS
Mean 8 hrs. I.S.T	Departure from normal	Mean 17 hrs. I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	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	
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	
																														HILL STATION (Excluding Kashmir & Baluchistan)
6·8	+1·2	8·1	12·93	—0·88	2·78	22	13	—1·3	4·2	+0·5	0	4	5	4	1	0	5	2	10	0	1	2	3	1	0	10	10	4	Murree.
3·8	—0·5	1·6	6·35	+1·41	3·70	23	5	—1·4	9·7	+4·5	2	0	1	9	16	0	1	2	0	1	0	0	5	25	0	0	0	0	Chitral.
2·9	+0·7	2·9	0·83	+0·18	0·68	30	1	—0·9	8·1	+3·3	0	0	0	1	2	10	0	0	18	0	0	0	0	0	23	6	0	2	Drosh.
3.2	+0·1	6·4	3·70	0·00	1·07	9	10	+2·4	4·5	+2·1	6	9	1	3	1	0	0	3	8	0	1	1	20	3	4	0	2	0	Parachinar.
1·8	—0·3	5·6	1·13	+0·19	0·28	28	5	+1·8	3·7	...	0	0	0	0	0	0	0	0	31	1	6	11	8	1	0	1	1	2	Wana.
																														AFGHANISTAN
																														Jalalabad. (R)
0·4	—0·5	1·8	0·17	+0·08	0·17	27	1	+0·6	3·2	+1·4	1	1	1	2	2	1	8	8	7	9	11	3	3	1	0	1	2	1	Kabul.
0·0	...	0·0	0·00	...	0·00	...	0	...	1·9	...	0	13	3	0	0	0	0	0	15	0	0	0	0	0	11	0	10	10	Kandahar.

0400 HRS. G.M.T. AND 1200 HRS. G.M.T.—AUGUST 1947.

Cloud amount (tenths of sky)			Precipitation						Wind velocity miles per hour		Wind direction—Number 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	
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	
			inches	inches	inches																									IRAN
5·7	+2.5	1·3	0·00	—0·01	0·00	...	0	0·0	11·1	+1·6	0	0	30	0	0	0	0	0	1	0	0	2	18	8	2	1	0	0	Jask
1·7	+1·2	0·7	0·00	0·00	0·00	...	0	0·0	8·5	+2·4	6	2	9	7	1	0	0	4	2	0	0	0	0	2	11	15	3	0	Bushire.
0·3	—0·3	0·8	0·00	—0·02	0·00	...	0	0.0	1·2	—0·1	0	0	0	1	0	0	0	0	30	0	1	7	2	1	0	1	1	18	Meshed.
																														ARABIA
1·9	—1·2	2·3	0·00	—0·02	0·00	...	0	—0·1	(a) 3·4	0·0	1	1	3	1	1	0	2	2	19	1	1	6	4	4	0	2	2	10	Muscat.
1·1	—0·4	0·4	0·00	0·00	0·00	...	0	0.0	9·6	+2·3	0	1	10	11	4	3	0	0	2	11	2	3	0	0	1	2	12	0	Sharjah.
1·0	—0·1	0·1	0·00	0·00	0·00	...	0	0·0	4·5	—2·2	2	1	0	0	0	2	4	13	9	14	6	2	0	0	0	0	9	0	Bahrain.

(a) Mean of 30 days.

TABLE IV.—ABSTRACT OF OBSERVATIONS RECORDED AT 0230 HRS. G.M.T. AT 4TH CLASS STATIONS—AUGUST 1947

STATION	Maximum temperature °F				Minimum temperature °F				Mean dry bulb temperature 0230 hrs. G.M.T. °F	Mean wet bulb temperature 0230 hrs. G.M.T. °F	Vapour pressure millibars		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 miles per hrs.
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	90·0	—0·1	96	16	78·9	+2·6	76	24	83·9	80·5	34·0	+0.8	85	—1	...	12·16	+1·89	2·57	5	17	+1·0	...	...
KASHMIR																							
Jammu*																							
Kargil*																							
Iran—																							
Zahidan	99·2	+3·8	105	16	68·4	+5·4	53	31	86·2	58·5	4·4	—13.7	14	—43	0·5	0·00	0·00	0·00	...	0	0·0	N45E	

* Data not available

TABLE V.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T. (0230 G.M.T) AT 5TH CLASS STATIONS—AUGUST 1947

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	10·95	+0·64	3·22	22	15	+0·2
	Sirajganj	7·35	—3·98	3·28	11	11	—4·2
	Rangpur	17·98	*+4·20	6·65	1	18	+4·0
KASHMIR	Sonamarg *						
	Gurez *						
BALUCHISTAN (*North*)	Harnai	*3·14	+0·48	1·70	31	5	+0·7

*Data not available

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PAKISTAN WEATHER REVIEW 1947.

Monthly Weather Report

September

Published by the authority of the Government of Pakistan.

Summary :—The chief features of the weather during the month were (1) Heavy floods in the eastern Sub-Division of East Pakistan in the second week (2) Heavy floods in the East Punjab and the adjoining districts of the northwest Punjab in the last week.

West Pakistan.—Last month's cyclonic storm over north Cutch and lower Sind weakened there into a shallow depression on the 1st which filled up by the 3rd. It caused local rainfall in Sind on the 1st and scatterred showers in Sind and Baluchistan on the next two days. The monsoon retreated thereafter from West Pakistan except the northwest Punjab where it continued fairly active till the middle of the last week. A well marked western disturbance while moving across the northwest Punjab caused local rainfall in the N.-W.F.P., and the northwest Punjab from the 17th to 20th. A depression from the east Central Arabian Sea travelling north-eastwards finally moved over to the East Punjab and filled up there on the 27th. Under its influence widespread heavy rain fell in the East Punjab and the 'Ravi' catchment from the 25th to 27th rainfall occurred locally in the northwest Punjab during the same period. The heavy rains caused serious floods in the rivers of the East Punjab and also in 'Ravi' bringing all the transport completely to a stand still. According to press reports many villages in the eastern districts of the northwest Punjab were washed away and one fourth of Lahore Corporation area went under water for two days. There was fairly heavy loss of property and many lives were lost. A few showers also occurred intermittently during the month in the N.-W. F. P. and the West Punjab. The monsoon withdrew from the northwest Punjab also on the 27th.

The total rainfall of the month was eight times the normal value in the upper Sind ; it was normal in the northwest Punjab, in moderate defect in the upper N.-W. F. P. the southwest Punjab and lower Sind and in large defect in the lower N.-W. F. P. and Baluchistan. The mean maximum temperature was above normal in the lower N.-W. F. P. and the mean minimum temperature was above normal in the N.-W. F. P., the West Punjab and North Baluchistan. Humidity was in excess in the N.-W. F. P. and the West Punjab and skies were more clouded than usual in the West Punjab and Sind and less clouded than usual in Baluchistan and the lower N.-W. F. P.

East Pakistan.—A low pressure area formed in the north Bay of Bengal on the 1st and developing into a shallow depression by the 2nd it moved over southwest Bengal on the next day. This was responsible for the strengthening of the monsoon which remained active in West Pakistan during the first six days of the month. With the movement of a low pressure wave into the northeast Bay across Arakan the monsoon became vigorous by the 7th morning and caused widespread heavy rainfall in the eastern and deltaic Sub-Divisions of East Pakistan from the 6th to the 8th. The chief amounts of heavy rainfall were Chittagong 10 inches, Comilla 7 inches and Faridpur 5 inches on the 8th—Chittagong recorded another 3 inches between 8 and 17 hours on the same day. These heavy downpours of rain caused widespread floods and severe damage to life and property in these regions. According to Newspapers reports a very large number of villages were washed away, railway lines were breached and telegraph and telephone poles swept away at many places. Chittagong was cut off from the rest of the world for several days. Crops were completely destroyed and there was a tremendous amount of loss of food stocks.

The monsoon weakened in East Pakistan by the 10th and continued weak throughout the rest of the month.

The total rainfall of the month was in large excess in all the three Sub-Divisions of East Pakistan. The mean temperature and relative humidity was normal while the skies were more clouded than usual in the northern and deltaic Sub-Divisions of Eastern Pakistan.

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

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TABLE I.—DIVISIONAL AND SUB-DIVISIONAL MEANS—SEPTEMBER 1947.

DIVISION	PRECIPITATION				DEPARTURE FROM NORMAL °F				
							8 hrs. I. S. T. 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
	"	"	"		°	°	mb	%	
1. East Bengal	20·04	11·18	+8·86	+79	—0·7	+0·5	0·0	+2	+1·2
Mean of East Bengal	20·04	11·18	+8·86	+79	—0·7	+0·5	0·0	+2	+1·2
2. West Punjab	1·73	1·83	—0·10	—5	—0·9	+2·5	+3·6	+10	+1·2
3. N.-W. F. P.	0·11	0·70	—0·59	—84	+2·4	+3·2	+4·7	+7	—0·3
4. Baluchistan	0·04	0·19	—0·15	—79	+1·3	+1·1	+0·7	+1	—0·4
5. Sind	0·61	0·45	+0·16	+36	0·0	+1·2	+1·1	0	+0·8
Mean of West Pakistan excluding Baluchistan	1·08	1·17	—0·09	—8	0·0	+2·2	+2·9	+6	+0·8
SUB-DIVISION									
East Bengal (North)	17·93	10·64	+7·29	+69	—1·4	+0·7	—0·3	+2	+2·0
East Bengal (East)	22·19	12·07	+10·12	+84	—0·6	+0·8	+0·2	+2	+1·0
East Bengal (Deltaic)	17·78	9·43	+8·35	+89	—0·3	—0·5	0·0	+1	+1·7
Kashmir *									
North West Punjab	2·69	2·73	—0·04	—1	—0·9	+2·4	+4·4	+12	+1·9
South West Punjab	0·44	0·65	—0·21	—32	—0·8	+2·7	+2·5	+7	+0·3
N.-W. F. P. (Upper)	0·42	0·81	—0·39	—48	—0·1	+3·5	+5·4	+12	+0·2
N.-W. F. P. (Lower)	0·00	0·66	—0·66	—100	+3·2	+3·1	+4·5	+6	—0.5
Baluchistan (North)	0·03	0·21	—0·18	—86	+0·9	+2·1	+1·0	+3	—0·3
Baluchistan (South)	0·05	0·16	—0·11	—69	+1·9	—0·3	+0·3	—2	—0·7
Sind (Upper)	0·80	0·09	+0·71	+789	—1·5	+1·2	+1·1	—2	+0·4
Sind (Lower)	0·49	0·68	—0·19	—28	+1·0	+1·2	+1·1	+1	+1·1

* Data incomplete.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T. (2·30 HRS.

STATION	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32 °F and standard gravity Millibars			Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure Millibars			Relative humidity %		
		Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I.S.T	Departure from normal	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
EAST BENGAL (North)																						
Bogra	63	1004·0	—0·4	1000·5	88·9	—0·2	94	21·22	77·8	—0·1	74	9	81·9	84·2	79·0	79·8	32·5	—0·3	33·5	88	+2	8[illegible]
Dinajpur (R) ...	123																					
EAST BENGAL (East)																						
Cox's Bazar ...	38	1006·3	+0·2	1003·1	85·9	—0·5	92	26	76·5	+0·6	75	6 days	81·3	81·7	78·3	78·0	31·4	—0·1	31·7	87	+1	8[illegible]
Chittagong	87	1004·4	—0·1	1001·2	86·0	—1·1	93	27	77·0	+0·6	74	5, 9	81·1	81·7	77·8	78·2	30·6	—0·5	31·7	86	0	8[illegible]
Noakhali	22	1006·0	—0·3	1002·4	85·6	—1·1	91	17, 27	77·9	—0·4	67	9	81·5	83·4	79·3	79·8	32·9	+0·5	32·8	90	+2	8[illegible]
Comilla	29	1006·5	+0·5	1002·3	88·9	+0·3	94	27	77·8	+0·9	75	8, 10	82·0	85·0	78·7	79·9	31·7	—0·3	32·7	86	+4	8[illegible]
Narayanganj ...	26	1005·0	—0·8	1001·9	89·2	+0·5	95	27	78·9	+0·1	74	8	82·7	84·9	79·0	78·3	32·8	+0·3	30·3	86	+2	7[illegible]
Brahmanbaria ...	32	1005·4	—	1002·0	88·3	—1·9	92	4 days	79·7	+3·2	75	8, 9, 19	82·3	84·9	79·1	79·9	32·5	+1·5	32·7	86	+5	8[illegible]
Srimangal	69	1004·7	—0·6	1001·1	88·7	—1·6	94	1, 23	76·0	+0·7	74	8, 26, 30	79·7	83·3	78·1	80·1	32·6	+1·2	33·6	93	+6	8[illegible]
Mymensingh ...	62	1004·8	—0·2	1001·3	88·0	+0·2	94	23, 28	77·0	—0·8	74	9	81·3	84·3	78·1	83·6	31·4	—1·0	39·0	89	+2	8[illegible]
EAST BENGAL (Deltaic)																						
Faridpur (R)	46																					
Barisal	11	1006·3	+0·2	1003·3	88·5	+0·4	93	4 days	78·4	+0·2	75	24	83·1	83·2	79·7	79·3	32·8	+0·1	32·0	86	+1	9[illegible]
Khulna (R)	16																					
Jessore*	26																					
Satkhira	16	1005·5	—0·1	1002·4	88·6	—1·0	92	4 days	77·0	—1·3	72	11	83·5	82·6	80·4	80·6	33·6	—0·1	35·3	87	+2	8[illegible]
KASHMIR																						
Srinagar ×	5,205																					
Gulmarg ×	8,709																					
Dras ×	10,059																					
Leh ×	11,529																					
Skardu ×	7,505																					
Gilgit ×	4,890																					
Misgar (R)	10,190																					
WEST PUNJAB (North)																						
Lahore	702	979·8	—0·9	977·3	95·6	—1·7	101	6, 7	76·3	+3·2	63	25	80·1	91·0	77·3	79·4	30·7	+5·6	29·0	88	+18	6[illegible]
Sialkot	830	975·8	—0·8	973·1	91·0	—3·6	98	4 days	75·2	+1·4	67	26	78·6	89·1	75·0	79·6	28·2	+2·8	30·2	84	+5	6[illegible]
Jhelum	765	977·8		975·4	92·9		100	3	74·7		68	27	78·7	90·1	75·3	78·9	28·4		28·7	80		6[illegible]
Rawalpindi	1,674	947·8	—1·1	945·5	93·9	+0·5	100	3, 6	72·6	+3·3	63	10, 18	77·1	90·8	72·6	75·0	25·5	+3·8	23·2	75	+13	5[illegible]
Khushab	616	982·1	—1·7	979·3	99·9	+1·3	107	6, 7	77·9	+1·8	60	20	81·1	98·5	76·5	79·9	29·1	+5·4	26·4	81	+13	4[illegible]
Lyallpur (R) ...	605																					
WEST PUNJAB (South)																						
Montgomery ...	558	984·4	—0·8	981·7	97·2	—2·1	102	6, 7, 15	77·8	+1·9	69	26	81·7	94·0	76·4	78·3	28·7	+2·9	25·9	78	+5	4[illegible]
Multan	413	988·4	—1·3	986·1	99·9	+1·2	104	5, 6, 12	80·2	+2·5	72	26	82·5	98·5	77·8	82·2	30·4	+3·0	30·1	81	+8	4[illegible]
Fort Abbas (R) ...	475																					
Bahawalpur	384	989·6	—0·9	986·9	98·8	—1·6	103	6	79·4	+3·7	71	26, 28	81·3	97·4	76·2	81·4	28·6	+1·5	29·3	80	+9	4[illegible]
Khanpur (R)	297																					

× = Data not available. (R) = Register not received. * = Data rejected.

Cloud amount (tenths of sky)			Precipitation				Number of rainy days (0·10" or more)		Wind velocity miles per hour		Wind direction—Number of winds from;— 8 hrs. I. S. T.									17 hrs. I. S. T.									STATION
	Departure from normal	Mean 17 hrs. I. S. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	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	
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
			inches	inches	inches																								EAST BENGAL (North)
8·3	+2·0	7·2	21·50	+10·21	3·35	6	18	+5·4	2·0	+0·4	0	0	5	10	5	4	1	0	5	0	0	5	4	5	5	2	0	9	Bogra.
																													Dinajpur (R).
																													EAST BENGAL (East)
7·3	+0·8	8·0	30·95	+15·70	9·37	6	16	+1·6	3·4	+0·4	0	0	0	5	5	1	2	1	16	0	0	0	5	8	1	1	1	14	Cox's Bazar.
7·9	+1·0	7·7	26·00	+13·36	10·03	8	19	+6·0	4·1	—1·3	1	1	3	8	3	2	0	0	12	0	1	1	3	9	7	3	0	6	Chittagong.
7·3	+1·4	6·8	14·08	—2·02	2·82	9	19	+3·0	6·4	+2·7	0	1	3	11	13	2	0	0	0	0	0	1	13	9	4	1	0	2	Noakhali.
8·2	+2·1	7·4	23·75	+12·40	6·58	8	17	+3·3	3·4	—0·3	2	0	0	12	8	1	0	0	7	1	0	0	5	14	2	0	0	8	Comilla.
8·0	+0·4	6·1	10·71	+0·95	3·86	6	11	—1·1	1·6	—1·7	0	1	7	7	5	6	2	1	1	0	0	2	3	15	4	4	0	2	Narayanganj.
7·1	...	6·5	16·94	+7·34	3·96	8	17	+3·9	3·5	...	2	1	4	8	10	5	0	0	0	4	0	1	3	10	3	1	2	6	Brahmanbaria.
7·3	+1·2	7·3	14·94	+3·17	3·56	8	19	+3·1	2·6	—0·3	0	4	5	7	5	2	1	0	6	5	2	2	3	4	4	3	1	6	Srimangal.
7·8	+0·3	8·0	32·04	+17·95	4·46	8	18	+3·3	3·5	+1·9	0	0	5	11	1	0	1	0	12	0	0	4	8	1	3	0	0	14	Mymensingh.
																													EAST BENGAL (Deltaic)
																													Faridpur (R).
8·7	+2·1	7·4	22·03	+11·95	7·82	6	15	+0·8	2·9	+0·8	0	0	5	3	5	4	1	0	12	0	0	0	2	14	0	0	0	14	Barisal.
																													Khulna (R).
																													Jessore. *
7·4	+1·2	8·2	13·53	+4·75	4·30	9	14	+1·8	2·3	+0·6	0	2	0	10	10	0	0	0	8	0	1	3	6	8	1	0	0	11	Satkhira.
																													KASHMIR
																													Srinagar. ×
																													Gulmarg. ×
																													Dras. ×
																													Leh. ×
																													Skardu. ×
																													Gilgit. ×
																													Misgar (R).
																													WEST PUNJAB (North)
4·8	+3·1	4·1	1·80	—0·40	1·03	20	5	+2·5	2·9	+1·4	1	1	8	9	2	1	1	0	7	0	6	4	5	0	0	3	3	9	Lahore.
5·1	+3·1	3·3	6·48	+3·05	1·63	10	9	+5·2	2·6	+1·2	0	10	4	6	1	2	0	1	6	1	5	6	0	0	0	8	8	8	Sialkot.
4·2		2·5	4·12		1·41	3	5		1·7		0	1	3	3	1	0	0	0	22	1	2	2	7	0	0	0	3	15	Jhelum.
3·5	+1·5	2·3	1·02	—2·87	0·70	18	2	—2·6	2·5	+1·0	2	7	3	4	2	0	0	1	11	0	2	2	9	8	2	4	2	1	Rawalpindi.
1·3	—0·1	2·8	1·45	+0·07	1·45	20	1	—1·0	4·3	0·0	0	8	8	3	1	1	1	0	8	0	2	2	13	7	2	0	0	4	Khushab.
																													Lyallpur (R).
																													WEST PUNJAB (South)
2·1	+1·0	3·3	0·33	—0·94	0·33	20	1	—0·6	2·2	—1·7	0	1	2	16	5	1	0	2	3	0	0	4	9	5	4	1	6	1	Montgomery.
1·2	+0·4	1·1	0·00	—0·54	0·00	...	0	—0·7	3·7	+1·7	2	2	0	1	14	10	0	0	1	0	0	2	3	8	14	1	0	2	Multan.
																													Fort Abbas (R).
0·0	—0·5	0·5	1·00	+0·87	1·00	1	1	+0·8	4·2	+0·6	0	2	1	0	6	10	0	0	11	0	7	0	0	0	13	1	0	8	Bahawalpur.
																													Khanpur (R).

× = Data not available (R) = Register not received. * = Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T. (2·30 H

STATION	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32 °F and standard gravity Millibars			Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure Millibars			Relative humid %		
		Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
N.-W. F. PROVINCE (North)																						
Peshawar	1,175	963·8	—1·6	960·0	94·9	—0·1	101	5, 8, 15	75·3	+3·5	68	22, 25, 30	78·7	93·5	73·2	76·3	25·4	+5·4	23·1	78	+12	4
N.-W. F. PROVINCE (South)																						
Bannu	1,264	953·2	...	955·6	101·9	+4·0	110	9, 13, 27	...	...	...	...	81·4	98·0	75·6	80·3	27·8	+6·4	27·3	75	+11	4
Miranshah	3,026	903·8	...	901·2	93·3	+1·6	101	5	75·0	+3·9	65	26	78·1	91·2	67·9	72·4	19·2	+4·3	19·5	58	+4	4
D. I. Khan	570	983·3	—1·2	979·9	100·4	+1·0	107	6	77·8	+2·2	68	29, 30	81·9	98·3	76·0	80·2	28·0	+2·8	27·0	75	+2	4
BALUCHISTAN (North)																						
Fort Sandeman ...	4,614	855·8	—0·6	850·1	95·7	+3·0	102	10	69·2	+3·0	58	28	71·8	91·9	62·1	62·0	15·2	+2·2	6·8	58	+5	15
Loralai	4,699	852·0		849·3	89·7		94	4 days	59·5		52	27	64·8	87·0	51·8	61·4	8·0		8·2	41		2
Sibi	441	988·0	—0·3	983·9	102·8	—1·2	109	4	83·2	+4·3	69	30	85·5	102·0	75·6	78·6	25·5	+5·1	22·8	62	+8	33
Quetta	5,490	829·5	—2·4	827·1	87·4		95	11	49·5		35	27	57·7	85·7	50·3	60·5	9·8	—0·3	9·1	60	+7	2
Chaman	4,311	865·6	—0·5	864·0	92·6	+1·8	101	11	65·4	+1·7	54	24, 26	67·3	90·6	53·1	64·7	8·0	+0·3	10·3	29	—3	2
Kalat	6,616	798·4	—0·4	796·9	84·1	+0·1	91	11, 12	52·6	+4·1	44	26, 27	57·1	80·9	43·0	52·1	4·5	—4·0	3·1	27	—18	9
Dalbandin	2,785	912·3	—0·8	909·8	99·9	+0·6	108	6, 8, 19	61·3	—0·3	51	27	69·8	98·4	55·8	70·7	9·6	+1·7	14·4	45	+10	2
Nokkundi	2,229	929·3		926·9	101·6	+1·1	111	5	70·2	—0·7	53	27	73·7	100·5	59·9	75·8	12·1	+1·9	20·3	43	+9	33
BALUCHISTAN (South)																						
Las Bela	292	993·7	—1·8	990·5	101·7	+2·3	108	23, 24, 25	71·0	—2·6	63	27	77·8	100·9	74·8	85·0	28·3	+0·3	33·8	86	+2	51
Ormara	15	×	...	×	89·2	+2·8	104	24	76·3	0·0	66	28	79·1	86·4	76·7	81·0	30·0	+2·4	33·1	90	+1	79
Pasni	10	1004·3	—1·6	1001·7	90·9	+1·7	102	24	73·6	+1·1	62	27	77·7	87·8	73·1	75·1	26·2	—1·1	24·5	81	—7	67
Panjgur	3,177	900·4	—0·4	898·1	96·4	+0·7	106	7	65·5	+0·5	52	22	69·0	94·2	58·3	63·7	12·1	+1·7	7·7	50	—4	15
Jiwani	13	998·1	...	996·0	...	...	...	...	75·1	...	67	28, 29	76·4	85·4	73·7	76·7	27·1	...	27·3	89	...	69
SIND (North)																						
Jacobabad	186	996·3	—1·5	993·1	101·0	—1·3	105	23, 29	79·0	+2·0	72	29, 30	81·9	100·3	76·7	79·9	29·4	+1·1	25·1	78	+1	40
Sukkur	221	995·3	—0·7	992·1	98·6	—1·8	102	4, 9, 13	78·0	0·0	75	30	83·2	98·2	76·5	80·2	28·2	+1·1	26·8	72	—5	44
Fad Idan	153	997·1	...	994·3	101·4		105	10,11,30	76·3	...	65	29	79·5	100·3	74·0	79·5	25·7	...	24·3	76	...	38
SIND (South)																						
Umarkot	55	1000·8	...	998·3	95·9	...	104	23, 30	76·3	...	70	29	79·3	94·9	76·7	80·6	30·0	...	29·2	89	...	55
Hyderabad	96	999·2	—2·3	997·1	98·8	+1·5	107	30	78·2	+1·8	72	28, 29	80·2	96·3	74·5	78·9	26·5	+1·2	25·3	73	+3	46
Karachi (Manora) ...	13	1003·5	—2·1	1001·5	86·3	+0·7	95	25	78·4	+1·7	75	28, 29, 30	79·3	84·0	76·1	78·4	29·3	+0·5	30·6	86	—3	77
Badin	31	1002·3	—1·8	1000·3	94·8	+0·7	105	5 days	77·4	+0·2	72	28	80·1	92·9	70·2	78·8	28·8	+1·5	27·5	83	+3	54

× Data not available.

loud amount enths of sky)		Precipitation				Number of rainy days (0·10" or more)		Wind velocity miles per hour		Wind direction—Number of winds from:—																			STATION
										8 hrs. I. S. T.									17 hrs. I. S. T.										
Departure from normal	Mean 17 hrs. I. S. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	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		
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
		inches	inches	inches																									
																													N.-W. F. PROVINCE. (North)
+0·2	3·3	0·42	—0·39	0.36	18	1	—0·5	4·7	+3·2	9	3	0	0	0	0	0	10	8	6	17	1	2	1	1	0	0	2		Peshawar.
																													N.-W. F. PROVINCE (South)
—0·7	0·2	0·00	—0·63	0·00	...	0	—1·0	3·6	...	2	2	1	9	4	4	2	6	0	0	1	7	10	0	0	0	2	9		Bannu.
—0·3	1·6	0·00	—0·73	0·00	...	0	—1·7	6·7	+1·4	0	1	1	0	0	0	0	0	28	0	1	16	6	1	0	0	1	5		Miranshah.
—0·5	0·3	0·00	—0·63	0·00		0	—0·9	2·0	+0·6	0	18	2	2	0	0	0	0	8	0	6	3	7	3	0	0	0	11		D. I. Khan
																													BLAUCHISTAN (North)
—0·7	3·0	0·08	—0·24	0.08	25	0	—0·7	3·0	+1·1	0	0	0	1	2	1	2	0	24	3	2	4	2	6	2	5	4	2		Fort Sandeman
	1·4	0·00	—0·19	0·00	...	0	—0·5	3·9		1	0	1	0	0	3	19	2	4	0	0	1	10	14	3	0	0	2		Loralai.
—0·2	0·2	0·00	—0·13	0·00	...	0	—0·3	(b)4·0	+0·2	0	0	1	16	7	1	0	0	5	0	0	2	9	14	5	0	0	0		Sibi.
—0·1	0·2	0·00		0·00	...	0		3·4	+1·6	0	0	0	0	2	0	0	0	28	8	3	0	0	0	1	4	14	0		Quetta.
—0·3	0·0	0·00	—0·03	0·00	...	0	—0·1	3·7	—1·1	0	0	11	6	0	1	0	0	12	2	0	0	1	2	10	1	11	3		Chaman.
—0·1	1·2	0·00	—0·09	0·00	...	0	—0·2	6·0	—1·7	0	0	0	1	29	0	0	0	0	8	1	0	0	1	0	2	18	0		Kalat.
—0·5	0·1	00·0	0·00	0·00	...	0	0·0	4·1	+0·4	1	2	2	0	0	0	0	1	24	0	3	4	6	2	3	2	4	6		Dalbandin.
—0·3	0·0	0·00	0.00	0·00	...	0	0·0	7·7	—2·3	10	0	0	0	0	0	0	5	15	3	0	2	0	1	0	2	13	9		Nokkundi.
																													BALUCHISTAN (South)
—1·1	0·3	0·20	—0·38	0·11	1	1	+0·8	3·2	+0·4	2	1	2	3	8	1	2	1	10	0	1	2	7	13	4	1	1	1		Las Bela.
—2·4	1·4	0·00	—0·01	0·00	...	0	0·0	9·5	—1·2	0	0	2	0	0	12	15	0	1	0	0	0	1	3	14	12	0	0		Ormara.
+1·2	1·9	0·00	0·00	0·00	...	0	0·0	6·5	—0·4	0	0	8	1	0	7	4	4	6	0	0	1	0	1	28	0	0	0		Pasni.
—0·3	0·9	0·00	—0·04	0·00	...	0	—0·2	4·2	+0·3	2	9	6	0	0	0	0	2	11	7	6	0	0	1	3	2	9	2		Panjgur.
	1·6	0·00		0·00	...	0	...	...		5	0	1	4	7	2	1	0	10	1	0	1	4	14	7	3	0	0		Jiwani.
																													SIND (North)
+0·2	1·0	0·00	—0·17	0·00	...	0	—0·3	6·6	+1·4	2	3	7	12	2	0	0	1	3	0	1	1	23	3	0	0	2	0		Jacobabad.
+0·6	0·8	1·60	+1·58	1·60	1	1	+0·9	2·8	—1·2	0	3	3	9	7	3	0	1	4	4	6	0	2	5	6	0	0	7		Sukkur.
	1·2	0·32		0·31	1	1		6·8		2	3	2	13	6	0	0	0	4	5	2	0	12	7	0	0	2	2		Pad Idan.
																													SIND (South)
	4·3	0·47		0·47	3	1		7·8		0	1	2	1	12	12	0	0	2	3	2	0	0	5	13	4	3	0		Umarkot.
+1·5	2·6	1·38	+0·75	1·38	1	1	+0·2	8·0	—0·4	3	0	0	0	1	10	13	1	2	2	2	0	1	3	11	9	1	1		Hyderabad.
+2·4	5·5	0·08	—0·44	0·04	15	0	—0·5	9·3	—0·7	0	0	0	0	0	10	13	3	4	0	0	0	0	0	20	10	0	0		Karachi (Manora).
—0·5	1·1	0·00	—0·89	0·00	...	0	—0·9	6·5	...	1	1	0	0	0	23	0	2	3	1	2	1	0	1	16	1	3	5		Badin.

b)—Data available for 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T. (2.30 H

STATION	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32 °F and standard gravity Millibars			Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure Millibars			Relative humi %	
		Mean 8 hrs. I.S.T.	Departure from normal	Mean 17 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.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	22
HILL STATIONS (Excluding Kashmir and Baluchistan)																					
Murree	7,113	783·5	—0·8	782·6	70·7	—1·6	75	1, 6	56·3	+1·5	50	26, 28	60·4	67·4	56·7	62·8	14·4	+1·6	17·9	80	+11
Cherat	4,272	866·5	—0·6	864·8	84·9	+0·9	92	4 days	68·1	+2·0	62	26	70·1	83·3	65·2	68·8	19·1	+3·7	18·1	77	+12
Drosh	4,806	851·2	—1·7	846·0	90·2	+2·2	98	4 days	67·0	+2·6	53	21	68·8	86·6	60·3	62·4	14·5	+1·9	9·5	61-67	+1
Parachinar	5,673	824·6	—0·4	822·7	84·3	+3·1	90	4 days	62·3	+3·7	52	26	65·7	80·0	58·3	63·4	14·0	+1·7	14·0	65	+7
Wana	4,456	857·4	...	855·6	90·3	+0·7	96	7, 8	66·0	+4·8	54	28, 29	68·9	86·4	60·9	67·7	15·1	+2·8	15·5	61	+5
AFGHANISTAN																					
Jalalabad	1,950	933·7	...	931·0	96·9	...	103	6	74·0	...	63	25	77·4	94·2	73·9	84·7	27·2	...	36·9	81	...
Kabul	5,955	818·1	...	815·3	88·6	+4·1	97	7, 10, 11	54·3	+2·9	46	24	62·1	85·4	51·3	65·3	9·0	+1·5	14·1	48	+5
Kandahar	3,462	894·1	...	891·6	97·6	...	105	5 days	54·8	...	45	24, 27	59·7	95·5	47·7	64·6	6·5	...	8·3	38	...

TABLE III.—ABSTRACT OF OBSERVATIONS RECORDED

STATION	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32° F and standard gravity Millibars			Maximum temperature. °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure Millibars			Relative humi %	
		Mean 4 hrs.	Departure from normal	Mean 12 hrs.	Mean	Departure from normal	Highfest	Date	Mean	Departure from normal	Lowest	Date	Mean 4 hrs.	Mean 12 hrs.	Mean 4 hrs.	Mean 12 hrs.	Mean 4 hrs.	Departure fromnormal	Mean 12 hrs.	Mean 4 hrs.	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
IRAN																					
Jask	13	1004·9	—	1002·6	92·8	—0·8	100	24	81·2	+0·4	76	27, 28, 29	84·7	91·0	77·5	80·7	29·6	—0.5	30·8	73	0
Bushire	14	1003·7		1003·0	91·9	—1·7	96	16, 21	79·3	—0·5	75	25, 30	83·1	90·9	76·2	81·3	27·5	—1·2	32·4	72	+2
Meshed	3,104	897·3		894·3	86·1	+2·2	102	8	45·5	—4·5	23	27	65·3	80·1	53·6	65·2	8·9	—0·6	14·0	45	—4
ARABIA																					
Muskat	15	1004·0		1002·1	89·2	—2·5	96	27	82·2	—0·4	78	5	85·7	86·4	80·4	81·5	33·0	+2·2	34·3	80	+6
Sharjah	18	1003·3		1001·1	99·6	+1·7	109	2	78·4	+1·5	71	26	85·6	94·7	77·9	84·5	29·9	+1·8	36·5	70	—1
Bahrain	28	1003·5		1002·2	94·4	—2·1	103	15	82·0	+0·6	75	18	86·4	92·1	80·1	81·6	31·5	—0·9	31·9	75	+1

M.T.) AND 17 HRS. I.S.T. (11.30 HRS. G.M.T.) FOR THE MONTH OF SEPTEMBER, 1947.

Cloud amount (tenths of sky)		Precipitation			Number of rainy days (0·10" or more)			Wind velocity miles per hour		Wind direction—Number of winds from																				STATION
										8 hrs. I. S. T									17 hrs. I. S. T.											
Departure from normal	Mean 17 hrs. I. S. T	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	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		
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
		inches	inches	inches																									HILL STATIONS (Excluding Kashmir and Baluchistan)
+1·8	5·8	7·72	+2·30	1·67	9	13	+5·8	4·6	+0·8	1	2	4	2	0	0	8	10	3	0	1	0	1	1	1	10	8	8		Murree.
—1·6	1·1	0·00	—2·07	0·00	...	0	—2·9	7·1	+2·4	10	0	0	4	13	1	2	0	0	2	0	0	7	19	0	1	1	0		Cherat.
+1·4	2·5	2·18	+1·49	0·64	21	5	+2·1	4·6	+0·9	0	0	0	3	1	1	0	0	25	0	1	0	0	2	17	5	1	4		Drosh.
0·0	5·2	2·24	+0·13	2·02	17	1	—4·0	4·3	+1·9	9	8	1	1	0	1	0	3	7	0	2	4	19	2	2	0	0	1		Parachinar.
—0·3	2·1	0·21	—0·28	0·15	18	1	+0·4	3·5	...	0	0	0	0	2	0	0	0	28	1	2	10	13	3	0	0	1	0		Wana.
																													AFGHANISTAN
...	2·4	1·24	...	0·95	18	2	...	3·2	...	0	0	1	5	4	5	5	0	10	0	5	10	11	2	2	0	0	0		Jalalabad.
—0·3	1·2	0·00	—0·04	0·00	...	0	+0·2	2·9	+1·1	4	1	0	1	4	6	8	6	0	8	10	5	3	0	1	0	2	1		Kabul.
...	0·0	0·00	...	0·00	...	0	...	2·1	...	0	4	0	1	0	0	0	0	25	0	0	0	0	0	11	1	7	11		Kandaher.

HRS. AND 1200 HRS. (G.M.T.) FOR THE MONTH OF SEPTEMBER, 1947.

Cloud amount, (tenths of sky)		Precipitation			Number of rainy days (0.10" or more)			Wind velocity miles per hour		Wind direction—Number of winds from :—																				STATION
										4 hrs.									12 hrs.											
Departure from normal	Mean 12 hrs	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	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		
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
		inches	inches	inches																									IRAN
0·0	0·2	0.00	0·00	0·00	...	0	0·0	7·5	—0·7	2	4	22	0	0	0	0	1	1	0	0	0	4	3	16	7	0	0		Jask.
0·0	0·0	0·00	0·00	0·00	...	0	0·0	8·2	+2·5	9	7	9	0	0	0	1	4	0	1	0	0	0	0	6	17	6	0		Bushire.
—0·2	0·6	0·00	—0·04	0·00	...	0	—0·2	1·3	+0·2	1	0	1	0	1	0	0	0	27	0	0	4	1	1	1	0	1	22		Meshed.
																													ARABIA
—0·8	1·0	0·00	0·00	0·00	...	0	0·0	2·5	—0·7	2	0	0	0	0	0	0	1	27	4	0	6	3	0	0	0	4	13		Muscat.
—0·9	0·0	0·00	0·00	0·00	...	0	0·0	6·8	+0·4	0	0	3	13	11	1	0	0	2	4	0	0	0	0	0	2	24	0		Sharjah.
—0·4	0·1	0·00	0·00	0.00	...	0	0·0	4·9	—2·9	2	0	0	1	1	0	6	13	7	12	3	3	1	0	0	0	11	0		Bahrain.

TABLE IV.—ABSTRACT OF OBSERVATIONS RECORDED AT 0230 HRS. G.M.T. AT 4TH CLASS STATIONS SEPTEMBER 1947.

STATION	Maximum temperature °F				Minimum temperature °F				Mean dry bulb temperature 0230 °F hrs. G.M.T.	Mean wet bulb temperature 0230 °F hrs. G.M.T.	Vapour pressure Millibars		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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
																inches	inches	inches				
EAST BENGAL (North)																						
Pabna	89·0	—2·6	94	27	78·0	+1·6	75	8, 9, 20	83.3	79·8	32·8	—0·4	85	+2		11·42	+3·16	2·15	6	12	+0·7	...
KASHMIR																						
Jammu (×) ...																						
Kargil × ...																						
IRAN																						
Zahidan ...	90·0	+1·9	100	7	55·5	+1·2	43	25	76·0	53·1	3·5	—8·9	16	—39	0.2	0·00	0·00	0·00		0	0·0	N 37 E

× =Data not available.

TABLE V.—ABSTRACT OF OBSERVATIONS RECORDED AT 0230 HRS. G.M.T. AT 5TH CLASS STATIONS SEPTEMBER 1947.

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	18·04	+8·26	2·87	4	15	+3·4
	Sirajganj	14·02	+4·33	5·15	6	17	+5·2
	Rangpur	24·67	+10·57	6·02	8	15	+2·1
KASHMIR							
	Sonamarg ×						
	Gurez ×						
BALUCHISTAN (North)	Harnai	0·17	—0·77	0·17	1	1	—0·4

× =Data not available

Registered No. S—1452

PAKISTAN WEATHER REVIEW, 1947

Monthly Weather Report

October.

Published by the authority of the Government of Pakistan.

Summary :—(1) Dry weather in many Sub-Divisions of West Pakistan despite the passage of seven western disturbances.

(2) Heavy rains in the eastern Sub-Divisions of East Pakistan under the influence of a depression and a cyclonic storm in the Bay of Bengal both of which moved over to East Pakistan.

West Pakistan.—Seven western disturbances and two of their secondaries affected West Pakistan during the month. The first one caused a few thundershowers in the hills of the upper N.-W. F. P. on the 2nd and in the northwest Punjab on the next three days. The secondary low of this disturbance which appeared over the North-East Arabian Sea on the 4th became unimportant by the 5th. The next three disturbances moved away northeastwards through Kashmir after causing isolated thunderstorms in the hills of the upper N.-W. F. P. on the 9th and from the 15th to 20th. The fifth disturbance which lay over Baluchistan on the 21st and its secondary which appeared over Sind on the 22nd gave local rain in the northwest Punjab on the 22nd and 23rd, a few showers in South Baluchistan on the 22nd and a few dust or thunderstorms in North Baluchistan and the N.-W. F. P. from the 21st to 23rd. The next disturbance passed away after causing extensive cloudiness and the seventh was affecting the N.-W. F. P. on the last day of the month.

Day temperatures were below normal from the 18th to 25th and above normal from the 27th to 30th. Night temperatures were generally above normal during the first nine and the last six days of the month.

The total rainfall of the month was in very large excess in South Baluchistan, in slight excess in the northwest Punjab and in very large defect elsewhere. The mean maximum temperature was normal and the mean minimum temperature was above normal in the southwest Punjab and the lower N.-W. F. P. Relative humidity was in excess in the West Punjab, the lower N.-W. F. P., Sind and South Baluchistan. Skies were more clouded than usual all over West Pakistan.

East Pakistan.—The monsoon was weak or moderate in East Pakistan during the first eleven days of the month. Weather became markedly unsettled in the West Central Bay on the 12th and a depression formed there on 14th. This depression moved north-eastwards and finally filled up while crossing coast between Cox's Bazar and Chittagong on the 16th. This depression was responsible for fairly widespread rain in the Eastern and Deltaic Sub-Divisions of East Pakistan from the 12th to 15th when heavy rain occurred locally in the Eastern Sub-Division especially along the coast. Cox's Bazar received 15·5 inches of rain between 08 and 17 hours on the 15th. The other noteworthy amounts of heavy rainfall during this period were Cox's Bazar 5 inches on the 13th, Noakhali 6 inches and Comilla 5 inches on the 14th and Cox's Bazar 7 inches on the 15th.

With the filling up of this depression the monsoon withdrew from East Pakistan. A cyclonic storm which was located in the Southeast Bay on the 22nd moving quickly recurved northwards and weakening rapidly into a depression crossed inland over to East Pakistan on the 24th and became unimportant by the 25th. The monsoon was again dragged into East Pakistan temporarily between the 23rd and 25th and gave local rain in Eastern Sub-Division on the 23rd and fairly widespread and locally heavy rain in the eastern and deltaic Sub-Divisions on the 24th. The chief amount of heavy rainfall was 10 inches at Comilla on the 24th. Local rain was recorded in East Pakistan on the 25th. The monsoon again withdrew thereafter and the weather remained dry during the rest of the month.

The total rainfall for the month was more than double the normal value in the eastern Sub-Division in slight to moderate excess elsewhere in East Pakistan. The mean temperature was normal, humidity was in excess in the deltaic Sub-Division and skies were more clouded than usual in the whole of East Pakistan.

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

WEATHER BUREAU

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TABLE I.—DIVISIONAL AND SUB-DIVISIONAL MEANS—OCTOBER 1947

DIVISION	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							8 hrs. I. S. T. 2·30 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
1. East Bengal	12·13	5·92	+6·21	+105	—1·7	—0·3	—0·6	+4	+1·4
Mean of East Bengal	12·13	5·92	+6·21	+105	—1·7	—0·3	—0·6	+4	+1·4
2. West Punjab	0·20	0·19	+0·01	+5	—1·5	+2·1	+1·3	+7	—0·3
3. N.-W. F. P.	0·00	0·10	—0·10	—100	—0·3	+2·2	+1·5	+4	—0·3
4. Baluchistan	0·11	0·06	+0·05	+83	—0·9	—0·1	+1·2	+4	—0·4
5. Sind	0·00	0·02	—0·02	—100	—1·4	+0·8	+3·2	+11	—0·3
Mean of West Pakistan excluding Baluchistan	0·10	0·12	—0·02	—17	—1·3	+1·7	+2·0	+8	—0·3
SUB-DIVISION									
1. East Bengal (North)	6·24	4·50	+1·74	+39	—1·9	+0·5	—0·9	+1	+1·9
2. East Bengal (East)	16·53	6·76	+9·77	+145	—1·8	—0·5	—0·6	+3	+1·3
3. East Bengal (Deltaic)	6·29	5·37	+0·92	+17	—1·3	—0·1	—0·1	+7	+1·7
4. Kashmir *									
5. North West Punjab	0·34	0·29	+0·05	+17	—1·5	+1·6	+1·5	+8	—0·4
6. South West Punjab	0·03	0·06	—0·03	—50	—1·5	+2·7	+1·0	+6	—0·2
7. N.-W. F. P. (Upper)	0·00	0·23	—0·23	—100	—1·5	+0·7	—0·4	—2	—0·7
8. N.-W. F. P. (Lower)	0·00	0·06	—0·06	—100	+0·1	+2·9	+2·2	+6	—0·1
9. Baluchistan (North)	0·00	0·09	—0·09	—100	—0·7	—0·4	+0·9	+2	—0·4
10. Baluchistan (South)	0·32	0·01	+0·31	+3100	—1·2	+0·2	+1·7	+7	—0·4
11. Sind (Upper)	0·00	0·02	—0·02	—100	—1·3	+1·3	+2·1	+7	—0·1
12. Sind (Lower)	0·00	0·03	—0·03	—100	—1·5	+0·5	+3·9	+14	—0·4

*Data incomplete.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T.

STATION	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, millibars			Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure Millibars			Relative humidity %		
		Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean	Departure from normal	Highest	Date	Mean.	Departure from normal.	Lowest	Date	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal.	Mean 17 hrs. I.S.T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
EAST BENGAL (North)																						
Bogra	63	1009·3	+0·0	1006·4	87·0	—0·8	93	11,12	73·0	—0·1	65	28,29	78·3	81·4	75·0	75·2	27·6	—0·8	26·9	85	+3	74
Dinajpur (R) ...	123																					
EAST BENGAL (East)																						
Cox's Bazar ...	38	1010·3	+0·2	1007·2	85·6	—1·5	90	9, 10	73·0	—0·6	67	4 days	79·4	80·2	75·0	77·6	27·1	—2·9	31·1	81	—1	80
Chittagong	87	1008·7	+0·1	1005·7	86·0	—0·9	91	9, 10	72·7	—0·7	65	28	78·6	79·8	74·4	74·8	27·3	—1·5	27·4	82	—3	79
Noakhali	22	1010·5	—0·2	1007·5	85·0	—1·6	92	9	74·8	—0·8	68	24	78·4	82·4	77·0	79·6	30·5	+0·3	32·5	93	+8	88
Comilla	29	1010·9	+0·3	1007·7	85·8	—2·4	92	4 days	73·1	—0·3	66	4 days	78·1	81·9	74·8	76·3	27·9	—1·8	28·7	85	+7	78
Narayanganj ...	26	1010·2	—0·5	1007·2	88·4	+0·2	94	10	74·3	—1·0	66	24	77·0	83·6	76·0	77·0	30·2	+1·0	29·3	81	+1	77
Brahmanbaria ...	32	1010·8	...	1007·7	86·0	—3·2	91	6, 7	73·9	—0·3	66	24, 29	78·7	81·0	75·0	76·0	28·6	—0·4	28·4	83	+5	79
Srimangal	69	1009·5	—0·3	1006·6	84·9	—4·1	91	7, 11	70·4	+0·2	60	29, 31	75·6	79·8	74·0	75·7	28·5	+0·3	28·8	93	+7	83
Mymensingh ...	62	1010·3	+0·5	1007·1	86·2	—0·9	89	15, 18	72·0	—1·9	63	24	78·5	80·5	75·0	75·6	28·6	—0·1	28·4	84	+4	80
EAST BENGAL (Deltaic)																						
Faridpur (R) ...	46																					
Barisal	11	1011·3	+0·5	1008.3	86·2	—1·4	94	8, 9	74·8	—0·1	67	29	79·8	81·6	75·9	75·8	28·8	—1·0	27·9	82	+1	77
Khulna (R)	16																					
Jessore*	26	1008·8	—5.4	1006·0	87·7	—1·3	93	9	72·5	0·0	63	28	77·0	81·6	75·9	78·3	30·2	+0·9	31·7	95	+13	87
Satkhira (R) ...	16																					
KASHMIR																						
Srinagar (×) ...	5,205																					
Gulmarg (×) ...	8,709																					
Dras (×) ...	10,059																					
Leh (×) ...	11,529																					
Skardu (×) ...	7,505																					
Gilgit (×) ...	4,890																					
Misgar (R) ...	10,190																					
NORTH WEST PUNJAB																						
Lahore	702	987·3	+0·7	985·1	93·0	—1·0	99	2, 15	62·5	+2·7	56	24, 25	68·2	87·7	64·1	69·4	18·6	+3·1	16·3	80	+19	37
Sialkot	830	982·9	+0·3	980·2	89·8	—1·6	97	2	66·0	+3·9	56	24	69·9	84·3	63·7	68·7	17·4	+2·0	16·9	69	+1	43
Rawalpindi	1,674	953·8	—0·7	952·3	85·3	—3·3	97	2	58·9	+1·9	50	28	61·9	84·4	56·5	64·5	13·4	+1·0	12·7	70	+12	32
Jhelum	765	985·6	...	982·7	90·6	...	98	1, 2	60·9	...	53	25	64·9	86·8	60·9	67·9	16·5	...	14·7	77	...	33
Khushab	616	989·4	—0·5	987·4	92·6	—1·0	102	1	61·5	—1·9	43	24	66·7	90·6	59·0	68·6	13·6	+0·6	14·0	61	+4	29
Lyallpur	605	989·7	—0·2	987·7	92·5	—0·7	100	2	64·0	+1·6	37	23	68·3	88·5	61·0	67·8	15·0	+0·8	13·9	65	+4	31
SOUTH WEST PUNJAB																						
Montgomery ...	558	992·0	+0·7	989·5	93.3	—1·7	100	2,3	65·1	+1·6	57	24	71·1	90·6	62·8	68·1	15·7	—0·2	13·3	61	—5	28
Multan	413	995·8	—0·5	993·5	94·5	—0·1	103	3	66·3	+2·6	61	6 days	68·4	92·6	62·8	72·7	17·0	+0·2	18·4	72	+7	35
Fort Abbas	475	994·8	...	992·2	95·4	...	104	3	66·7	...	59	23	71·4	92·2	61·2	67·0	13·9	...	11·3	52	...	25
Bahawalpur	384	997·6	0·0	994·9	92·7	—2·9	102	2, 3	64·9	+2·4	59	21,24,25	68·5	91·1	62·8	73·3	16·9	+0·8	20·1	71	+10	40
Khanpur	297	999·9	—0·7	996·7	95·6	—1·3	103	3	67·9	+4·0	59	26	69·2	90·8	63·3	72·4	17·2	+3·2	17·8	70	+13	38

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

30 HRS. G.M.T.) AND 17 HRS. I.S.T. (11·30 HRS. G.M.T.), OCTOBER 1947.

Cloud amount (tenths of sky)			Precipitation				Number of rainy days (0·10" or more)		Wind velocity, miles per hour		Wind direction—Number of winds from :— 8 hrs. I. S. T.									17 hrs. I. S. T.									STATION
[illegible]	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the month	Departure from normal	Heviest fall in 24 hours	Date	Total in the month	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	
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
			inches	inches	inches																								
																													EAST BENGAL (North)
1.2	+1.9	4.7	5.91	+0.78	~~1.5~~ 1·65	7	7	+1.~~5~~	1.7	+0.5	2	5	12	1	2	5	3	0	1	2	0	3	5	2	2	2	2	13	Bogra.
																													Dinajpur (R).
																													EAST BENGAL (East)
·5	+0·2	4·9	38·74	+31·58	15·46	16	10	+2·5	3·1	+1·2	4	7	1	4	1	0	0	0	14	1	1	1	4	3	0	1	5	15	Cox's Bazar.
·1	+0·6	5·1	17·28	+10·19	3·45	24	13	+6·0	3·6	0.0	3	1	5	4	1	0	0	2	15	6	1	2	2	3	3	3	3	8	Chittagong.
·7	+2·0	5·0	16·56	+8·43	5·85	14	10	+2·3	5·2	+3·1	8	0	5	4	1	3	2	2	6	7	2	1	4	3	4	5	3	2	Noakhali.
·0	+2·5	5·1	20·37	+13·65	10·25	24	8	+1·4	3·8	+2·0	4	1	0	9	3	1	0	1	12	7	1	0	5	3	1	0	0	14	Comilla.
·6	+1·3	5·5	5·96	+0·69	2·50	24	5	—1·0	1·0	—0·7	0	2	9	7	3	1	4	4	1	5	1	5	1	5	2	6	3	3	Narayanganj.
·4	...	4·9	5·73	—0·61	3·10	24	5	—1·	2·8	...	5	4	3	1	9	1	0	1	7	3	0	1	0	3	2	0	0	22	Brahmanbaria.
·5	+1·5	5·8	13·34	+6·28	3·54	14	13	+4·9	2·1	+0·2	1	4	3	4	7	2	1	0	9	6	1	1	2	5	2	3	2	9	Srimangal.
·5	+1·1	5·6	14·23	+7·91	3·06	2	12	+5·9	1·8	+0·8	0	0	4	7	2	0	0	0	18	0	0	3	4	2	0	0	2	20	Mymensingh.
																													EAST BENGAL (Deltaic)
																													Faridpur (R).
·2	+2·5	3·4	9·08	+2·94	3·36	24	9	+2·1	2·0	+0·5	4	6	2	4	3	1	0	4	7	3	3	1	2	4	2	1	2	13	Barisal.
																													Khulna (R).
·3	+0·8	6·0	3·51	—1·08	1·25	14	6	+0·2	2·5	+1·1	7	3	3	2	0	2	3	0	11	11	3	1	1	7	0	0	0	8	Jessore.
																													Satkhira (R).
																													KASHMIR.
																													Srinagar. (×)
																													Gulmarg. (×)
																													Dras. (×)
																													Leh. (×)
																													Skardu. (×)
																													Gilgit. (×)
																													Misgar. (R)
																													NORTH WEST PUNJAB.
·6	—0·1	0·8	0·85	+0·61	0·85	5	1	+0·5	2·0	+0·9	2	3	2	4	1	1	3	1	14	0	4	2	1	0	0	7	1	16	Lahore.
·7	—0·1	0·8	0·45	+0·11	0·41	5	1	+0·2	2·4	+1·2	2	10	3	4	0	1	2	2	7	0	2	2	0	0	0	0	7	20	Sialkot.
·5	—0·6	0·9	0·41	—0·19	0·14	22	3	+1·6	2·2	+0·8	6	10	1	0	0	0	1	3	10	0	1	1	2	7	8	9	2	1	Rawalpindi.
·8	...	1·3	0·30	...	0·17	3	2	...	1·5	...	1	0	0	0	0	0	0	4	26	0	0	4	3	0	1	1	3	19	Jhelum.
·2	—0·5	0·6	0·00	—0·15	0·00	...	0	—0·4	3·2	—0·1	0	9	5	2	3	2	1	0	9	2	1	4	9	5	2	0	1	7	Khushab.
·3	—0·6	0·6	0·00	—0·12	0·00	...	0	—0·4	1·7	+0·1	0	5	3	0	5	4	1	0	13	2	1	2	0	5	5	1	1	14	Lyallpur.
																													SOUTH WEST PUNJAB.
·4	—0·1	0·8	0·00	—0·08	0·00	...	0	—0·3	1·8	—0·7	0	1	3	13	5	4	0	4	1	0	1	1	5	2	3	1	5	13	Montgomery.
·5	0·0	0·3	0.00	—0·08	0·00	...	0	—0·2	2·5	+1·3	6	0	0	0	13	2	0	0	10	5	2	1	0	9	6	1	0	7	Multan.
·5	...	1·2	0·00	...	0·00	...	0	...	5·1	...	3	1	2	4	9	10	0	0	2	3	0	3	1	2	10	7	5	0	Fort Abbas.
·1	—0·4	0·0	0·13	+0·07	0·13	22	1	+0·8	3·2	+0·9	1	0	0	0	9	9	2	0	10	1	1	0	0	0	10	1	4	14	Bahawalpur.
·0	—0·3	0·0	0·00	—0·02	0·00	...	0	~~0·1~~ —0·1	4·2	+0·1	1	7	0	0	4	8	3	4	4	1	10	1	0	1	6	5	7	0	Khanpur.

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T. (2·3

STATION	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and Standard gravity, Millibars.			Maximum temperature, °F				Minimum temperature, F				Dry bulb temperature, °F		Wet bulb temperature, °F		Vapour pressure, Millibars			Relative humidity, %		
		Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean	Departure from normal	Highest	Date	Mean.	Departure from normal.	Lowest	Date	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
N.-W. F. P. (Upper)																						
Peshawar	1,175	971·6	—0·2	968·6	86·3	—1·5	94	3	61·2	+0·7	52	23	65·0	84·1	56·2	64·9	11·5	0·0	12·3	55	—2	31
N.-W. F. P. (Lower)																						
Bannu	1,264	960·5	...	961·8	89·6	—1·0	97	5 days	...	...	...	...	66·9	87·3	60·0	68·3	14·5	+2·6	15·0	73	+16	34
Miranshah (j) ...	3,026	909·5	...	906·7	85·4	+1·8	92	1	62·1	+3·8	57	19	66·8	82·2	55·1	63·2	10·1	+3·1	12·1	45	—1	32
D. I. Khan	570	990·2	—0·9	988·3	92·7	—0·6	102	2	63·7	+2·0	49	29	67·3	90·1	61·3	70·1	15·8	+0·9	16·1	69	+2	35
BALUCHISTAN (North)																						
Fort Sandeman ...	4,614	861·3	+0·4	858·5	82·7	+0·1	91	1, 2	54·1	+1·2	48	22, 23, 24	56·8	80·4	45·2	55·7	5·8	+0·1	5·4	38	—14	15
Loralai	4,699	857·1	...	854·7	80·5	...	88	1	48·8	...	41	24	56·0	77·0	40·2	52·2	2·1	...	3·2	31	...	14
Sibi	441	996·2	+1·2	992·8	97·6	0·0	105	1, 27	65·8	+0·3	57	18	70·2	95·3	57·8	64·0	10·7	+1·5	6·2	43	+3	18
Quetta	5,490	834·9	—0·9	832·5	75·1	...	82	1, 2	37·5	...	30	19	42·5	73·2	36·2	53·5	5·0	—0·9	7·0	55	+3	28
Chaman	4,311	874·3	+3·0	872·5	80·0	+0·2	89	1, 2, 8	(a) 53·7	+0·2	47	17, 18	57·6	78·0	50·0	65·4	9·9	+4·2	16·4	63	+27	51
Kalat	6,616	803·0	+0·8	801·4	72·2	—3·1	81	1	38·3	—2·7	28	17	45·4	68·8	34·2	46·1	2·9	—2·8	2·6	26	—22	11
Dalbandin	2,785	919·9	+1·1	917·3	88·5	—0·5	99	2	50·7	—0·2	43	18	55·8	86·7	45·0	66·0	5·8	+0·2	13·7	39	—1	32
Nokkundi	2,229	937·1	...	935·0	91·4	—0·8	100	1, 2	59·1	—1·0	47	18	63·6	90·0	55·9	(a) 74·0	12·0	+4·3	21·4	60	+15	45
BALUCHISTAN (South)																						
Las Bela	292	1002·6	+1·1	998·5	98·0	—1·7	110	3	65·8	+2·5	57	18	69·6	96·5	67·8	80·6	22·5	+4·1	28·8	91	+26	59
Ormara	15	*	...	...	87·3	—1·9	101	4	70·6	—0·2	63	19	74·4	84·7	73·6	77·6	27·3	+5·0	29·6	94	+13	71
Pasni	10	1012·5	+1·0	1009·4	88·5	—2·0	100	4	67·1	—0·2	60	18	71·9	84·7	67·9	74·8	20·8	—0·6	25·1	83	+3	64
Panjgur	3,177	906·9	+0·8	904·9	88 1	+0·9	105	1	54·0	—1·4	45	18	58·1	84·6	46·4	59·1	6·1	—1·5	6·8	36	—12	15
Jiwani	13	1006·3	...	1004·2	...	...	...	...	70·3	...	65	19	72·1	85·6	70·3	75·2	24·1	...	25·4	91	...	61
SIND (Upper)																						
Jacobabad	186	1004·5	+0·3	1001·7	96·7	—0·8	104	1	66·5	+0·9	60	25	70·0	94·7	64·2	72·6	17·7	+1·7	17·7	72	+12	31
Sukkur	221	1003·5	+0.4	1000·4	94·2	—1·8	103	1	70·2	+1·3	63	24	76·1	93·0	68·2	72·5	19·8	+2·6	18·0	66	+1	35
Pad Idan	153	1005·2	...	1002·9	98·3	...	107	3	66·0	...	60	19, 20	70·3	95.9	65·2	73·7	18·8	...	18·7	75	...	32
SIND (Lower)																						
Umarkot	55	1008·9	...	1006·4	96·4	...	104	2	68·2	...	63	19, 20, 21	72·5	94·2	70·1	74·3	23·9	...	19·6	88	...	36
Hyderabad	96	1007·8	+0·3	1004·8	97·4	—0·4	106	2	70·5	+0·3	64	20	72·7	93·6	68·9	70·6	22·6	+4·5	21·3	82	+18	28
Karachi (Manora) ...	13	1011·6	+0·6	1009·5	84·2	—3·1	93	5	74·4	+0·7	70	18,19	75·4	81·7	73·5	76·3	27·2	+3·1	28·7	91	+8	78
Badin	31	1010·6	+0·7	1007·6	94·9	—1·1	108	1	70·4	+0·5	65	19,24	73·8	92·0	71·1	72·2	25·0	+4·1	18·0	87	+16	35

(*) = Data not available.

(a) = Data available for 21 days.

(a) = Data available for 20 days.

RS. G.M.T.) AND 17 HRS. I.S.T. (11·30 HRS. G.M.T.), OCTOBER 1947. —*contd.*

Cloud amount (tenths of sky)			Precipitation				Number of rainy days (0·10" or more)		Wind velocity, miles per hour		Wind direction—Number of winds from :— 8 hrs. I. S. T.									17 hrs. I. S. T.									STATION
Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	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	
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
			inches	inches	inches																								N.-W. F. P. (Upper)
0·6	—0·7	3·0	0·00	—0·23	0·00	...	0	—0·6	2·6	+1·4	1	0	0	0	2	3	0	0	25	3	16	5	1	0	2	0	0	4	Peshawar.
																													N.-W. F. P. (Lower)
0·6	—0·1	0·8	0·00	—0·04	0·00	...	0	—0·1	2·6	...	2	0	2	1	2	0	5	13	6	0	0	6	19	2	0	0	3	1	Bannu.
0·9	+0·3	1·4	0·00	—0·03	0·00	...	0	0·0	5·4	+0·9	0	0	0	0	0	0	1	0	20	0	0	16	4	0	1	0	0	0	Miranshah. (×)
0·0	—0·6	0·3	0·00	—0·11	0·00	...	0	—0·3	2·0	+1·1	2	11	0	0	0	0	0	1	17	0	4	1	0	0	0	0	0	26	D. I. Khan.
																													BALUCHISTAN (North)
0·4	—0·4	2·0	0·00	—0·10	0·00	...	0	—0·2	2·8	+1·3	1	0	2	0	2	2	3	0	21	1	2	4	1	2	4	5	3	9	Fort Sandeman.
0·4	...	1·7	0·00	—0·11	0·00	...	0	—0·3	4·7	...	0	0	0	0	0	8	21	2	0	0	0	1	12	14	1	2	0	1	Loralai.
0·3	—0·2	0·5	0·00	0·00	0·00	...	0	0·0	2·7	+0·1	2	1	1	0	1	1	2	4	19	0	0	1	11	16	2	0	0	1	Sibi.
0·2	—0·4	0·5	0·00	...	0·00	...	0		3·1	+1·4	1	1	0	4	2	1	0	0	22	7	2	1	0	0	1	2	18	0	Quetta.
0·0	—0·7	0·0	0·00	—0·16	0·00	...	0	—0·2	4·4	—0·2	0	1	4	5	3	0	2	0	16	3	0	0	1	3	8	1	10	5	Chaman.
0·4	—0·1	1·0	0·00	—0·09	0·00	...	0	—0·2	6·2	+1·8	0	0	0	3	27	0	0	0	1	7	0	0	0	1	1	4	18	0	Kalat.
0·6	—0·1	0·7	0·00	—0·02	0.00	...	0	—0·1	3·8	+0·8	0	1	0	0	0	0	0	0	30	0	0	0	2	0	0	0	8	21	Dalbandin.
0·0	—0·8	0·2	0·00	0·00	0·00	...	0	0·00	7·5	+1·5	10	1	2	0	0	0	0	12	6	5	0	0	2	4	1	1	14	4	Nokkundi.
																													BALUCHISTAN (South)
0·0	—1·8	0·0	1·27	+1·26	1·27	22	1	+1·0	2·5	+0·3	1	5	4	1	1	3	0	1	15	0	0	2	8	13	5	1	2	0	Las Bela.
3·6	+1·1	(a) 0·7	0·00	0·00	0·00	...	0	0·0	8·9	+0·5	0	1	2	3	0	10	8	1	6	0	0	0	1	2	17	9	2	0	Ormara.
1·5	—0·6	0·4	0·00	0·00	0·00	...	0	0·0	7·4	+1·6	3	1	9	0	0	2	5	7	4	0	2	2	3	6	16	2	0	0	Pasni.
0·1	—0·4	0·9	0·00	—0·01	0·00	...	0	—0·1	4·2	+0·1	1	13	10	2	0	0	0	1	4	8	2	0	1	1	1	6	12	0	Panjgur.
1·8	...	0·5	0·00	...	0·00	...	0	...	...	...	7	2	3	0	5	1	2	0	11	0	0	0	0	16	11	4	0	0	Jiwani.
																													SIND (Upper)
0·3	—0·1	0·5	0·00	—0·03	0·00	...	0	—0·1	3·7	+0·5	3	5	6	2	3	0	0	1	11	0	2	3	13	10	1	1	0	1	Jacobabad.
0·1	—0·1	0·2	0·00	—0·01	0·00	...	0	0·0	2·3	—0·6	1	3	2	4	7	4	4	1	5	3	4	0	3	3	11	2	2	3	Sukkur.
0·1	...	0·4	0·00	...	0·00	...	0	...	4·5	...	0	2	3	13	6	0	0	1	6	6	3	0	4	6	1	2	5	4	Pad Idan.
																													SIND (Lower)
1·0	...	0·5	0·00	...	0·00	...	0	...	5·1	...	0	0	0	6	16	8	0	0	1	0	1	0	0	1	15	10	4	0	Umarkot.
0·1	—0·5	0·2	0·00	—0·03	0·00	...	0	—0·1	6·2	+1·2	0	1	0	0	5	13	9	0	3	1	1	0	2	12	13	2	0	0	Hyderabad.
2·0	+0·3	0·8	0·00	—0·02	0·00	...	0	—0·1	6·6	0·0	1	2	1	0	0	7	7	2	11	0	0	0	0	1	19	11	0	0	Karachi (Manora).
0·2	—1·0	0·0	0·00	—0·03	0·00	...	0	—0·1	4·4	...	1	0	0	0	1	17	3	1	7	1	0	0	0	4	16	2	2	6	Badin.

(a)—Mean of 30 days

(×)—Date available for 21 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T. (2·3

STATION	Height of bar. cistern above mean sea level in feet	Pressure reduced to 32° F and standard gravity Millibars			Maximum temperature °F				Minimum temperature °F			Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure Millibars		Relative humidity %				
		Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
HILL STATIONS (Excluding Kashmir and Baluchistan)																						
Murree	7,113	786·3	—0·6	786·1	65·6	—2·0	72	1, 9	47·2	—2·1	38	23	50·9	60·2	43·5	50·4	7·0	+0·1	8·9	56	+7	53
Cherat	4,272	871·1	—0·2	869·9	76·7	+0·1	87	2	58·9	+0·5	46	23	62·4	73·3	51·6	56·6	8·7	0·0	8·9	45	—6	31
Drosh	4,806	857·1	—0·5	853·0	75·5	—1·2	86	1, 8	52·4	—0·8	46	16	54·1	70·7	46·1	51·7	7·4	—0·3	5·4	53	—7	25
Parachinar	5,673	828·7	+0·1	827·2	74·8	+0·6	83	1	50·0	+1·3	41	23	52·9	70·0	44·4	53·3	7·0	+0·2	7·9	52	+4	33
Wana	4,456	862·0	...	859·9	80·6	+0·6	89	1, 2	48·8	+1·8	43	24	51·5	76·9	43·2	53·1	6·2	—0·1	4·2	49	0	15
AFGHANISTAN																						
Jalalabad	1,950	942·4	...	939·4	87·2	...	95	1, 2	56·6	...	49	24	61·2	83·2	54·9	68·7	12·1	...	18·1	66	...	47
Kabul	5,955	822·8	...	820·5	74·2	+0·9	83	1, 7, 8	42·5	+1·1	36	4, 23	47·2	70·1	38·0	50·7	4·5	0·0	5·7	41	—8	24
Kandahar	3,462	902·1	...	899·7	85·0	...	95	1, 3	43·1	...	36	19	47·8	82·3	40·8	58·6	5·8	...	7·3	52	...	20

(c) Mean of 28 days.

TABLE III. ABSTRACT OF OBSERVATIONS RECORDED AT 4 HRS. G.M.T.

STATION	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32F and standard gravity Millibars			Maximum temperature °F				Minimum temperature °F			Dry bulb temperature °F			Wet bulb temperature °F		Vapour pressure millibars			Relative humidity %		
		Mean 4 hrs.	Departure from normal	Mean 12 hrs.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 4 hrs.	Mean 12 hrs.	Mean 4 hrs.	Mean 12 hrs.	Mean 4 hrs.	Departure from normal	Mean 12 hrs	Mean 4 hrs.	Departure from normal	Mean 12 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
IRAN																						
Jask	13	1013·0		1010·7	90·5	—0·3	101	4	76·0	+0·5	71	27	81·6	88·8	73·8	78·2	24·6	—0·7	28·5	68	—1	61
Bushire	14	1012·0		1010·8	90·5	+3·0	98	1	73·2	+1·4	66	31	76·2	88·5	68·3	77·9	19·8	—2·0	27·9	65	—5	60
Meshed	3,104	900·3		898·8	80·2	+7·2	92	6	38·7	—2·7	30	17	53·9	70·5	46·9	57·9	7·9	+0·4	10·8	57	—1	45
ARABIA																						
Muscat	15	1012·3		1010·4	88·6	—2·4	96	4	78·9	—1·0	73	12	84·8	85·5	77·6	79·9	29·6	+3·2	32·3	73	+5	78
Sharjah	18	1012·4		1010·1	93·7	+1·7	105	1	69·6	—1·6	64	12	78·7	89·6	71·4	79·2	23·1	—1·4	29·3	70	—7	62
Bahrain	28	1011·7		1010·2	92·5	+3·1	99	5, 19, 25	(c) 77·3	+2·3	73	25, 31	81·6	89·5	77·9	78·6	30·8	+3·3	28·2	84	+6	60

(c) Mean of 28 days

RS. G.M.T.) AND 17 HRS. I.S.T. (11·30 HRS. G.M.T.), OCTOBER 1947—*concld.*

Mean 8 hrs. I.S.T.	Cloud amount (tenths of sky): Departure from normal	Cloud amount (tenths of sky): Mean 17 hrs. I.S.T.	Precipitation: Total of the month	Precipitation: Departure from normal	Precipitation: Heaviest fall in 24 hours	Precipitation: Date	Number of rainy days (0.10" or more): Total in the month	Number of rainy days (0.10" or more): Departure from normal	Wind velocity miles per hour: Mean	Wind velocity miles per hour: Departure from normal	Wind direction—Number of winds from :— 8 hrs. I. S. T.: N	NE	E	SE	S	SW	W	NW	Calm	17 hrs. I. S. T.: N	NE	E	SE	S	SW	W	NW	Calm	STATION
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
			inches	inches	inches																								
																													HILL STATIONS (Excluding Kashmir and Baluchistan).
·5	+0·1	2·3	1·84	+0·28	1·54	23	3	−0·3	5·5	+1·4	1	6	2	1	0	0	5	11	5	0	1	2	4	1	1	12	2	8	Murree.
·3	—0·8	0·5	0·00	—0·56	0·00	...	0	—1·3	6·1	+0·2	16	2	0	1	6	0	5	1	0	7	0	0	2	20	1	1	0	0	Cherat.
·4	+0·7	4·1	1·82	+0·55	0·74	16	4	+0·9	2·0	—0·3	0	0	1	0	0	0	0	0	30	1	0	0	5	1	15	4	1	4	Drosh.
·7	—0·4	4·3	0·36	—0·59	0·18	22	2	—0·5	3·9	+1·4	10	9	1	0	0	0	0	6	5	1	3	5	18	3	1	0	0	0	Parachinar.
·3	—0·1	1·3	0·12	0·00	0·12	22	1	+0·7	2·6	...	0	0	0	0	0	0	0	0	31	0	0	9	15	5	2	0	0	0	Wana.
																													AFGHANISTAN
·2	...	1·9	0·00	...	0·00	...	0	...	2·4	...	0	1	0	0	0	14	7	1	8	0	4	16	4	0	4	0	0	3	Jalalabad.
·5	+0·4	2·4	0·00	—0·40	0·00	...	0	—0·8	3·3	+1·2	2	1	0	1	3	6	8	9	1	8	9	5	1	0	0	1	3	4	Kabul.
·2	...	0·1	0·00	...	0·00	...	0	...	1·6	...	0	0	0	0	0	0	0	1	30	0	1	0	0	0	6	0	13	11	Kandahar.

ND 12 HRS. (G.M.T.), OCTOBER 1947.

Mean 4 hrs.	Cloud amount (tenths of sky): Departure from normal	Cloud amount (tenths of sky): Mean 12 hrs.	Precipitation: Total of the month	Precipitation: Departure from normal	Precipitation: Heaviest fall in 24 hours	Precipitation: Date	Number of rainy days (0.10" or more): Total in the month	Number of rainy days (0.10" or more): Departure from normal	Wind velocity miles per hour: Mean	Wind velocity miles per hour: Departure from normal	Wind direction—Number of winds from :— 4 hrs.: N	NE	E	SE	S	SW	W	NW	Calm	12 hrs.: N	NE	E	SE	S	SW	W	NW	Calm	STATION
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
			inches	inches	inches																								
																													IRAN
0·9	0·0	0·5	0·00	—0·12	0·00	...	0	—0·2	6·5	—0·6	5	5	18	0	0	0	0	2	1	0	0	0	1	2	16	12	0	0	Jask.
0·5	+0·2	0·6	0·00	—0·11	0·00	...	0	—0·2	6·6	+1·4	3	12	15	0	0	0	0	0	1	0	0	0	0	1	7	17	6	0	Bushire.
1·3	—0·7	2·7	0·00	—0·35	0·00	...	0	—1·0	0·9	—0·2	0	0	1	1	0	0	0	0	29	0	0	4	2	1	0	0	0	24	Meshed.
																													ARABIA
0·0	—0·8	0·0	0·00	—0·14	0·00	...	0	—0·2	0·6	—2·6	3	0	0	0	1	0	1	6	20	4	0	4	1	0	0	1	4	17	Muscat.
0·3	—0·6	0·0	0.00	0·00	0·00	...	0	0·0	7·2	+1·2	0	1	2	10	13	1	0	0	4	3	0	0	0	0	1	5	22	0	Sharjah.
0·2	—0·8	0·1	0·00	0·00	0·00	...	0	0·0	4·3	—2·1	1	0	0	0	1	7	6	6	10	11	9	3	0	1	0	0	6	1	Bahrain.

TABLE IV.—ABSTRACT OF OBSERVATIONS RECORDED AT 2·30 HRS. G.M.T. AT 4TH CLASS STATIONS OCTOBER, 1947

STATION	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature 2·30 hrs. G. M. T.	Mean wet bulb temperature 2·30 hrs. G. M. T.	Vapour, pressure, millibars		Relative humidity %		Mean cloud amount 2·30 hrs. G. M. T.	Precipitation						Wind	
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date			Mean 2·30 hrs. G.M.T.	Departure from normal	Mean 2·30 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 2·30 hrs. G. M. T.	Velocity in miles per hour
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 ...	88·0	—3·1	93	7, 8, 12	73·0	+1·0	64	31	80·2	75·8	28·1	—1·1	80	0	...	6·63	+1·20	1·55	13	9	+3·6	...	...
KASHMIR																							
Jammu (×) ...																							
Kargil (×) ...																							
IRAN																							
Zahidan ...	81·3	+1·1	90	1, 7	48·5	—2·7	40	17	62·8	45·0	3·0	—6·5	18	—41	0·5	0.00	—0·07	0·00		0	—0·1	N 7 E	7·[illegible]

(×) Data not available.

TABLE V.—ABSTRACT OF OBSERVATIONS RECORDED AT 2-30 HRS. (G.M.T.) AT 5TH CLASS STATIONS OCTOBER, 1947

DIVISION	STATION	Precipitation					
		Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0·10-in. or more	Departure from normal
1	2	3	4	5	6	7	8
		inches	inches	inches			
EAST BENGAL (North)							
	Rajshahi	5·34	+1·57	2·80	13	4	—0·5
	Sirajganj	7·08	+2·37	3·35	7	10	+4·8
	Rangpur	4·03	—1·79	1·91	1	3	—1·5
KASHMIR							
	Sonamarg (×)						
	Gurez (×)						
BALUCHISTAN (North)	Harnai	0·00	—0·23	0·00		0	—0·4

(×) Data not available.

G.P.P.K.—172 Met. Ser.—23-7-56—200

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PAKISTAN WEATHER REVIEW, 1947

Monthly Weather Report

November

Published by the authority of the Government of Pakistan

Summary :—(1) Mainly dry weather both in West and East Pakistan.

(2) Both day and nights appreciably warmer than usual in West Pakistan.

West Pakistan.—Last month's western disturbance passed away through Kashmir on the 2nd after causing cloudiness in the N.-W. F. P. and the north-west Punjab. Eight more western disturbances and their five secondaries affected Western Pakistan during the month. The weather however remained dry except for local light thundershowers in the hills of the N.-W. F. P. and isolated thunderstorms in North Baluchistan from the 15th to 17th and a few thunderstorms on a day or two in the other Sub-Divisions of West Pakistan during the second half of the month. Day temperatures were above normal throughout the month, and most of the nights were appreciably warmer than usual.

The total rainfall of the month was normal in upper Sind and in large defect in Baluchistan while it was 100% in defect in the West Punjab, the N.-W. F. P. and lower Sind. The mean maximum temperature was above normal except in South Baluchistan and the mean minimum temperature was appreciably above normal all over West Pakistan. Relative humidity was in excess in the West Punjab, South Baluchistan and lower Sind and the skies were more clouded than usual in the lower N.-W. F. P., South Baluchistan and Sind.

East Pakistan.—The weather remained dry except for isolated thundershowers in the eastern Sub-Divisions on the 15th and isolated thunderstorms in East Pakistan on the 26th. Day temperatures were slightly above normal on some of the days.

The total rainfall of the month was 95 to 100% in defect. The mean maximum and minimum temperatures and the humidity were normal while the skies were much less clouded than usual.

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 1.—DIVISIONAL AND SUB-DIVISIONAL MEANS—NOVEMBER 1947

DIVISION	PRECIPITATION				DEPARTURE FROM NORMAL °F				
							8 hrs I.S.T. 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
	"	"	"		°	°	mb	%	
1. East Bengal	0·02	1·18	—1·16	—98	+1·3	—0·5	—0·5	—2	—1·4
Mean of East Bengal	0·02	1·18	—1·16	—98	+1·3	—0·5	—0·5	—2	—1·4
2. West Punjab	0·00	0·11	—0·11	—100	+3·0	+6·6	+2·6	+8	0·0
3. N.-W. F. P.	0·00	0·21	—0·21	—100	+2·4	+4·5	+2·2	+2	+0·3
4. Baluchistan	0·04	0·10	—0·06	—60	+3·5	+6·2	+3·3	+8	+0·6
5. Sind	0·01	0·07	—0·06	—86	+2·6	+5·2	+4·4	+10	+0·7
Mean of West Pakistan excluding Baluchistan ...	0·00	0·11	—0·11	—100	+2·8	+5·8	+3·1	+8	+0·3
SUB-DIVISION									
1. East Bengal (North)	0·03	0·63	—0·60	—95	+1·3	—1·6	0·0	—5	—1·1
2. East Bengal (East)	0·03	1·57	—1·54	—98	+1·3	—0·2	—0·9	—3	—1·5
3. East Bengal (Deltaic)	0·00	1·08	—1·08	—100	+1·4	—0·1	+0·1	+4	—1·4
4. Kashmir (*)									
5. North West Punjab	0·00	0·15	—0·15	—100	+3·1	+6·3	+2·9	+9	0·0
6. South West Punjab	0·00	0·06	—0·06	—100	+2·9	+6·9	+2·3	+6	0·0
7. N.-W. F. P. (Upper)	0·00	0·31	—0·31	—100	+2·9	+2·6	+1·2	—2	—0·4
8. N.-W. F. P. (Lower)	0·00	0·15	—0·15	—100	+2·2	+5·5	+2·7	+5	+0·7
9. Baluchistan (North)	0·06	0·13	—0·07	—54	+5·6	+7·3	+2·5	+5	0·0
10. Baluchistan (South)	0·01	0·05	—0·04	—80	+0·4	+4·6	+4·8	+13	+1·5
11. Sind (Upper)	0·03	0·03	0·00	0	+2·8	+6·2	+3·9	+5	+1·1
12. Sind (Lower)	0·00	0·11	—0·11	—100	+2·5	+4·6	+4·8	+14	+0·5

*Data incomplete.

TABLE II.—ABSTRACT OF OBSERVATION RECORDED AT 8 HR

STATION	Height of bar cistern above mean sea level in feet.	Pressure reduced to 32 °F and standard gravity, Millibars			Maximum temperature, °F				Minimum temperature, °F				Dry bulb Temperature °F		Wet bulb Temperature °F		Vapour pressure, Millibars			Relative humidity, %		
		Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
EAST BENGAL (North)																						
Begra ...	63	1013·6	+0·8	1010·1	84·8	+2·4	90	5	62·0	—0·8	57	23	71·3	78·8	66·7	69·5	20.2	—0·1	20·3	77	—3	6
Dinajpur	123	1011·2	+0·1	1006·9	85·9	+3·4	89	4 days	58·5	—2·5	53	4 days	73·6	79·9	66·8	72·0	19.4	+0·2	23·2	69	—11	6
EAST BENGAL (East)																						
Cox Bazar	38	1013·6	+1·1	1010·9	85·6	+1·2	91	3	66·6	—0·5	60	23, 24, 25	77·2	78·6	69·8	70·2	21·2	—3·3	21·6	67	—13	6
Chittagong	87	1011·9	+0·4	1009·0	85·1	+1·5	89	4 days	65·1	—0·4	59	24, 25	75·4	77·2	68·5	69·9	21·1	—1·9	21·2	77	—7	6
Noakhali	22	1014·5	+0·7	1011·3	85·6	+2·3	92	5	68·6	+1·3	63	4 days	75·4	81·6	70·3	73·6	22·8	—0·4	25·1	76	—7	6
Comilla	29	1014·2	+0·5	1011·1	85·4	+1·4	91	5, 6	64·5	+0·4	52	24, 25	73·2	80·1	68·4	71·8	21·1	—1·7	22·5	77	—1	6
Narayanganj ...	26	1013·8	0·0	1010·8	88·0	+4·1	95	5	65·7	—0·4	60	24, 27	75·1	78·8	69·4	71·1	22·1	+0·2	23·0	81	+3	7
Brahmanbaria ...	32	1014·2	...	1011·1	84·0	—1·2	90	6	66·3	+0·7	60	24, 25	74·4	78·4	69·6	71·5	21·9	—1·0	22·7	75	+2	7
Srimangal	69	1012·9	+0·3	1009·6	84·4	—1·1	90	6	58·1	—1·5	51	25	68·8	78·3	66·1	71·3	21·1	—0·1	22·7	87	+1	7
Mymensingh ...	62	1014·1	+1·1	1010·9	85·1	+2·2	91	5	63·2	—1·3	58	30	72·2	78·8	67·9	70·6	21·0	—0·6	22·3	79	—3	6
EAST BENGAL (Deltaic)																						
Faridpur (R) ...	46																					
Barisal	11	1015·0	+1·0	1012·1	85·7	+2·5	91	5, 6, 7	66·3	+0·7	61	22	75·1	79·3	69·4	70·6	22·1	—0·7	21·6	74	—4	6
Khulna (R)	16																					
Jessore	26	1014·5	—1·7	1011·4	85·7	+1·5	90	5, 6	60·3	—0·5	47	30	69·6	77·3	67·5	68·0	22·5	+1·4	18·7	89	+11	5
Satkhira	16	1014·3	0·0	1010·7	85·3	+0·1	91	6	62·6	—0·6	56	21	70·3	80·4	66·7	70·8	20·6	—0·4	21·2	83	+5	6
KASHMIR																						
Srinagar (*) ...	5,205																					
Gulmargh (*) ...	8,709																					
Dras (*)	10,059																					
Leh	11,529																					
Skardu (*)	7,505																					
Gilgit (*)	4,890																					
Misgar	10,190	704·3	...	700·9	46·4	...	56	1, 2, 4	...	...	...	...	22·5	36·4	18·7	31·3	2·3	...	4·4	72	...	6
NORTH WEST PUNJAB.																						
Lahore	702	991·5	+0·5	989·5	84·7	+1·8	92	8	53·7	+6·4	48	26	57·2	80·8	56·1	66·3	14·9	+4·5	15·5	93	+25	4
Sialkot (c)	830	987·3	+0·5	984·9	83·2	+2·6	90	5, 7	57·4	+8·3	50	23	62·0	77·3	56·5	64·9	13·1	+2·5	15·5	69	—8	4
Rawalpindi	1,674	958·6	+0·5	956·6	78·1	+0·4	89	5	48·0	+3·4	41	27	52·0	75·1	47·2	58·5	9·2	+1·2	10·1	69	+1	3
Khushab	616	994·3	—0·4	992·1	86·1	+3·3	92	5 days	53·8	+4·0	47	27	56·9	83·6	51·9	68·8	11·0	+3·1	17·5	72	+16	4
Lyallpur	605	994·3	—0·1	992·3	86·0	+4·0	93	3	55·3	+6·2	49	26	58·1	81·0	54·3	65·5	12·7	+3·0	14·5	77	+10	3
SOUTH WEST PUNJAB																						
Montgomery ...	558	995·9	—0·4	994·7	86·5	+3·1	93	5, 6, 7	58·0	+6·4	49	26	62·0	82·5	56·3	66·8	12·9	+2·2	15·4	69	0	3
Multan	413	1001·2	—0·1	999·1	87·3	+4·4	94	2, 5, 7	58·7	+7·8	52	30	60·6	84·8	56·6	66·7	13·3	+1·6	14·2	74	+7	3
Fort Abbas	475	999·4	...	996·7	89·3	...	96	5, 6	55·9	...	49	27, 30	60·6	85·8	53·7	64·5	11·0	...	11·1	82	...	2
Bahawalpur	384	1002·4	+0·4	999·7	88·0	+2·6	95	18	57·2	+6·6	42	30	59·3	84·3	54·6	67·9	12·4	+2·0	15·8	73	+7	4
Khanpur	297	1003·1	—1·9	1001·7	88·5	+1·5	95	2	58·4	+7·0	52	28, 30	60·2	85·7	55·3	62·6	12·7	+3·4	5·9	71	+10	2

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

Cloud amount (tenths of sky)			Precipitation				Number of rainy days (0.10" or more)		Wind velocity miles per hour		Wind direction—Number of Wind 5 from :— 8 hrs. I. S. T.									17 hrs. I. S. T.									STATION
Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Total of the Month	Departure from normal	Heaviest fall in 24 hrs	Date	Total in the month	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	
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
			"	"	"																								
																													EAST BENGAL (North)
1·0	—0·8	1·4	0·04	—0·73	0·04	14	0	—0·8	1·3	+0·3	7	7	4	0	1	1	2	3	5	1	2	0	0	0	0	3	2	22	Bogra.
0·3	—1·3	0·2	0·00	—0·44	0·00	...	0	—0·6	0·4	—0·8	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	30	Dinajpur.
																													EAST BENGAL (East)
1·3	—7·1	2·3	0·00	—3·26	0·00		0	—3·2	2·5	+1·2	6	2	5	0	0	0	0	1	16	0	0	0	0	0	0	0	12	18	Cox's Bazar.
2·1	—1·1	2·2	0·20	—1·97	0.20	16	1	—1·0	2·6	—1·0	3	8	4	0	0	0	0	0	15	9	1	0	0	0	1	5	8	6	Chittagong.
0·6	—1·7	1·3	0·00	—1·53	0·00	...	0	—1·9	2·9	+1·4	20	4	0	0	0	0	0	1	5	11	1	0	1	0	0	3	7	7	Noakhali.
1·5	—0·6	2·9	0·00	—1·29	0·00	...	0	—1·6	1·5	+0·3	13	2	1	0	3	1	0	0	10	11	1	0	1	1	0	3	2	11	Comilla.
0·8	—1·8	2·1	0·00	—0·95	0·00	...	0	—1·3	1·0	—0·2	5	8	6	2	0	1	1	6	1	4	1	3	0	1	3	2	4	12	Narayanganj.
1·5	...	2·3	0·00	—1·04	0·00	...	0	—1·5	1·5	...	8	5	6	3	1	1	0	2	4	13	0	0	0	0	0	0	1	16	Brahmanbaria.
1·1	—1·4	1·3	0·00	—1·41	0·00	...	0	—1·7	1·2	—0·2	2	3	1	1	0	0	0	0	23	3	0	0	0	0	1	1	2	23	Srimangal.
0·4	—2·0	0·6	0·00	—0·88	0·00	...	0	—1·0	1·7	+1·0	0	0	7	1	0	0	0	1	21	0	1	1	0	0	0	2	0	26	Mymensingh.
																													EAST BENGAL (Deltaic)
																													Faridpur. (R).
1·1	—1·1	2·0	0·00	—1·54	0·00	...	0	—1·7	1·3	0	6	3	0	0	0	0	0	3	18	1	0	0	0	0	0	0	4	25	Barisal.
																													Khulna. (R).
0·6	—1·4	0·7	0·00	—0·95	0·00	...	0	—1·1	1·5	+0·4	9	4	4	0	0	0	2	4	7	5	0	0	0	0	0	0	1	24	Jessore.
1·2	—1·6	1·4	0·00	—0·74	0·00	...	0	—1·2	1·3	+0·3	15	2	0	0	1	0	0	2	10	1	0	0	0	1	0	0	0	28	Sarkhira.
																													KASHMIR
																													Srinagar. (*).
																													Gulmarg. (*).
																													Dras. (*).
																													Leh. (*)
																													Skardu. (*).
																													Gilgit (*).
2·7	...	3·3	0·00	...	0.00	...	0		3·0	...	2	2	2	0	1	0	6	17	0	0	1	9	11	3	0	5	1	0	Misgar.
																													NORTH WEST PUNJAB
1·2	—0·2	1·0	0·00	—0·10	0·00	...	0	—0·3	1·2	+0·3	0	0	0	1	0	1	0	2	26	0	0	0	1	0	0	3	3	23	Lahore.
1·9	+0·8	2·0	0·00	—0·17	0·00	...	0	—0·4	1·2	+0·5	0	10	4	1	0	0	0	1	14	0	0	0	0	0	1	4	3	20	Sialkot. (c).
1·5	0·0	2·2	0·00	—0·28	0·00	...	0	—0·5	2·1	+0·8	1	7	0	0	0	2	1	0	19	0	0	1	1	0	9	10	1	8	Rawalpindi.
0·7	—0·7	2·2	0·00	—0·08	0·00	...	0	—0·2	1·9	—0·4	1	5	0	0	1	1	1	0	21	0	1	1	7	5	5	3	2	6	Khushab.
1·9	+0·3	1·9	0·00	—0·11	0·00	...	0	—0·2	1·1	—0·2	0	2	2	2	1	1	0	1	21	1	5	2	0	1	1	2	1	17	Lyallpur.
																													SOUTH WEST PUNJAB
1·5	+0·5	1·6	0·00	—0·05	0·00	...	0	—0·2	1·6	—0·3	0	0	1	8	8	3	0	2	8	0	0	0	1	2	3	1	7	16	Montgomery.
1·3	+0.3	1·2	0·00	—0·06	0·00	...	0	—0·1	1·7	+0·7	3	0	3	8	6	1	1	1	15	3	1	2	1	3	1	1	0	18	Multan.
1·5	...	2·0	0·00	...	0·00	...	0	...	3·1		2	3	3	7	7	4	0	0	4	2	3	1	0	1	6	7	7	3	Fort Abbas.
1·1	0·0	0·9	0·00	—0·01	0·00	...	0	0·0	1·7	+0·2	0	0	0	3	5	2	1	1	18	2	0	0	0	0	7	2	2	17	Bahawalpur.
0·0	—0·8	0·0	0·00	—0·12	0·00	...	0	—0·1	2·8	—0·4	7	4	1	2	7	4	4	1	0	7	2	0	0	1	6	6	8	0	Khanpur.

(c) 17 hrs. data available for 28 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I. S. T. (2·30 HR

STATION	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32 °F and standard gravity, Millibars			Maximum temperature °F				Minimum temperature °F				Drybulb temperature °F		Wet bulb temperature °F		Vapour pressure Millibars			Relative humidity %		
		Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
N.-W. F. PROVINCE (Upper)																						
Peshawar	1,175	975·8	—0·1	973·1	79·7	+2·9	88	4	51·5	+2·6	43	22	54·0	75·6	47·2	60·2	8·0	+1·2	10·7	56	—2	[illegible]
N.-W. F. PROVINCE (Lower)																						
Bannu	1,264	970·8	...	969·9	81·9	+1·7	89	2	55·8	+5·9	49	26, 30	59·1	75·4	51·6	61·8	9·7	+2·0	12·7	58	+1	[illegible]
Miranshah (R) ...	3,026																					
D. I. Khan	570	996·1	+0·1	993·3	84·6	+2·7	93	5	53·7	+5·0	47	25, 26	57·2	78·8	54·2	67·1	13·0	+3·5	17·4	79	+8	4[illegible]
BALUCHISTAN (North)																						
Fort Sandeman ...	4,614	864·4	+1·3	862·1	74·9	+3·5	84	6	46·6	+5·5	39	26	49·1	72·1	41·4	52·8	5·9	+2·0	7·2	50	—8	2[illegible]
Loralai	4,699	860·1	...	858·4	73·3	...	81	4,5	43·5	...	39	17	46·3	68·9	38·7	50·3	4·9	...	5·1	50	...	2[illegible]
Sibi	441	1001·0	+1·5	997·7	90·0	+3·6	99	1	59·6	+6·5	52	25, 26	63·7	86·5	53·9	63·8	9·8	+3·8	10·6	48	+7	2[illegible]
Quetta	5,490	836·7	—0·5	835·0	68·3	...	76	3	33·7	...	26	18, 25	39·1	66·0	35·6	50·4	5·8	+1·6	7·0	72	+14	3[illegible]
Chaman	4,311	876·6	+3·5	877·3	73·7	+6·1	82	3, 4	51·1	+7·7	44	18	52·5	70·9	43·9	54·0	6·6	+1·9	7·4	43	—2	2[illegible]
Kalat	6,616	804·3	+1·3	802·5	66·8	+3·1	75	1	37·0	+6·4	32	18, 22	40·2	62·8	33·4	45·2	3·9	+0·4	4·2	49	—2	2[illegible]
Dalbandin	2,785	922·5	+0·4	920·0	85·1	+8·8	91	1	47·5	+7·0	43	23, 25	50·4	79·1	44·5	67·9	7·4	+2·7	18·9	62	+12	4[illegible]
Nokkundi	2,229	938·2	...	935·6	88·5	+8·5	95	1	60·0	+10·3	49	22	63·0	85·4	54·5	65·1	11·1	+5·6	12·4	57	+13	3[illegible]
BALUCHISTAN (South)																						
Las Bela ...	292	1006·4	+1·3	1002·5	92·2	—0·7	99	6	60·2	+6·7	54	27	65·7	91·1	62·7	79·3	18·3	+7·0	28·4	84	+21	5[illegible]
Ormara	15	...	...	...	84·2	—1·5	90	8	65·8	+2·0	61	26	69·3	81·4	68·2	73·4	22·9	+5·4	24·1	94	+15	6[illegible]
Pasni	10	1015·3	+0·1	1013·2	84·2	—1·2	95	7	63·5	+3·0	60	10, 23	66·4	80·1	64·7	75·5	20·0	+5·0	28·1	91	+21	7[illegible]
Panjgur	3,177	908·8	+0·4	906·5	81·0	+5·1	92	1	52·2	+6·6	49	5 days	53·8	77·5	45·5	57·9	7·0	+1·8	8·3	46	—5	2[illegible]
Jiwani	13	1009·2	...	1007·2	...	...	...	...	67·7	...	65	5 days	69·5	81·0	67·6	71·8	21·7	...	22·7	91	...	6[illegible]
SIND (Upper)																						
Jacobabad	186	1009·1	—0·2	1006·6	90·3	+4·4	97	6, 7	60·0	+5·5	53	26	63·2	87·8	57·3	70·4	13·2	+2·4	17·6	67	+4	3[illegible]
Sukkur	221	1008·4	+0·6	1005·2	87·4	+1·2	96	3	64·6	+6·5	58	25	69·9	86·3	63·3	69·8	17·1	+5·4	17·2	68	+5	4[illegible]
Pad Idan ...	153	1010·2	...	1007·6	91·1	...	100	6	58·9	...	51	26	62·1	88·4	57·9	65·3	14·8	...	11·7	77	...	2[illegible]
SIND (Lower)																						
Umarkot ...	55	1012·8	...	1010·1	92·4	...	98	6	62·4	...	55	26, 28	65·8	90·3	61·0	69·9	16·1	...	15·3	74	...	33[illegible]
Hyderabad	96	1011·8	—0·2	1009·0	92·7	+3·9	99	1, 5, 6	64·8	+6·0	57	28	66·8	89·6	61·4	67·2	14·9	+3·3	12·5	73	+15	27[illegible]
Karachi (Manora) ...	13	1014·9	0,0	1012·6	85·0	—0·2	91	18, 19	70·9	+4·0	68	27, 30	72·0	81·7	68·7	74·9	22·5	+6·9	26·5	84	+16	7[illegible]
Badin	31	1014·0	+0·5	1011·4	93·9	+3·7	100	5	63·7	+3·8	56	26, 27	66·6	90·2	62·7	69·5	17·6	+4·2	15·1	75	+12	3[illegible]
HILL STATIONS (Excluding Kashmir and Baluchistan)																						
Murree	7,113	788·1	+0.8	787·4	60·5	+1·0	67	4	43·5	+2·5	40	4 days	47·6	53·9	38·6	44·8	4·7	+0·4	6·9	43	0	4[illegible]
Cherat	4,272	874·1	+0.9	873·0	69·4	+4·0	78	6	52·4	+2·7	47	24, 30	56·2	65·5	47·0	53·0	7·6	+2·1	8·8	49	+2	4[illegible]
Drosh	4,806	860·5	+1.6	856·2	68·3	+4·2	79	5	46·2	+2·6	40	18	47·7	61·6	38·7	45·0	4·4	—0·5	3·5	40	—16	2[illegible]
Parachinar (R) ...	5,673																					
Wana ...	4,456	864·1	...	862·1	72·3	+2·2	81	2, 5	40·0	+4·5	34	26	42·4	69·0	38·0	50·5	6·0	+2·0	5·1	65	+9	2[illegible]
AFGHANISTAN																						
Jalalabad	1,950	946·9	...	944·1	79·3	...	88	4	45·9	...	38	30	48·9	75·4	43·8	61·0	7·7	...	12·4	65	...	4[illegible]
Kabul	5,955	824·6	...	822·7	66·3	+5·2	75	2	35·8	+3·5	31	21	38·4	61·2	32·3	45·9	4·1	+0·7	5·2	54	—6	[illegible]
Kandahar	3,462	905·5	...	903·3	78·7	...	88	4 days	38·8	...	31	25,26	43·0	74·7	39·5	58·4	6·8	...	10·1	73	...	[illegible]

(R) Register not received.

Cloud amount (tenths of sky)			Precipitation				Number of rainy days (0·10" or more)		Wind velocity, miles per hour		Wind direction—Number of winds from:— 8 hrs. I. S. T.									17 hrs. I. S. T.									STATION
Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I.S.T.	Total of the month	Departure from normal	Heviest fall in 24 hours.	Date	Total in the month	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	
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
			".	".	".																								N.-W. F. PROVINCE (Upper)
2·3	—0·4	3·5	0·00	—0·31	0.00	...	0 ~~0·00~~	—0·6	1·6	+0·6	0	0	0	0	2	4	0	1	23	1	10	5	3	1	0	0	0	10	Peshawar.
																													N.-W. F. PROVINCE (Lower)
2·2	+1·0	2·3	0·00	—0·16	0·00	...	0 ~~0·00~~	—0·2	2·4	...	0	0	0	0	1	0	6	13	10	0	1	3	18	2	0	0	0	6	Bannu.
																													Miranshah. (R).
1·6	+0·3	2·0	0·00	—0·15	0·00	...	0 ~~0·00~~	—0·3	1·0	+0·4	1	4	0	0	0	0	0	0	25	1	1	0	0	0	1	0	0	27	D. I. Khan.
																													BALUCHISTAN (North)
2·3	+1·0	3·5	0·16	+0·03	0·12	22	1	+0·8	2·1	+0·9	0	1	4	5	2	1	1	0	16	3	1	0	1	2	6	9	3	5	Fort Sandeman.
2·2	...	3·6	0·11	—0·05	0·11	22	1	+0·5	4·5	...	0	0	0	0	1	6	21	0	2	0	0	0	6	15	4	4	1	0	Loralai.
2·5	+1·0	2·9	0·00	—0·02	0·00	0	0	—0·1	1·9	—0·1	2	1	1	1	1	0	0	2	22	1	1	0	9	14	2	0	0	3	Sibi.
1·2	—0·3	2·5	0·00	...	0·00	...	0	...	4·9	+3·2	0	1	0	5	2	3	0	0	19	2	2	0	1	0	4	2	15	4	Quetta.
0·0	—1·2	0·0	0·00	—0·23	0·00	...	0 ~~0·00~~	—0·7	4·5	+0·5	1	4	9	4	3	3	0	0	6	1	0	0	0	1	7	7	5	9	Chaman.
2·2	+1·0	3·3	~~0·00~~	—0·23	~~0·00~~	...	0 ~~0·00~~	—0·8	5·1	+1·2	0	0	0	3	27	0	0	0	0	5	2	0	0	1	2	5	13	2	Kalat.
1·6	+0·4	3·6	0·18	+0·12	0·18	15	1	+0·8	2·8	+0·1	1	0	0	0	0	0	0	0	29	0	2	3	0	2	0	0	2	21	Dalbandin.
0·3	—1·7	1·0	0·00	—0·03	0·00	...	0 ~~0·00~~	—0·1	5·4	+0·2	10	7	3	0	0	0	0	6	4	2	2	2	4	5	7	1	5	2	Nokkundi.
																													BALUCHISTAN (South)
0·3	—0·4	0·0	0·00	0·00	0·00	...	0 ~~0·00~~	0·0	2·2	+0·4	6	4	2	1	3	1	1	3	9	0	0	3	3	17	7	0	0	0	Las Bela.
3·5	+2·0	2·8	0·00	0·00	0·00	...	0 ~~0·00~~	0·0	6·2	+1·6	0	0	4	1	2	3	5	0	15	0	0	0	8	5	5	12	0	0	Ormara.
3·6	+2·4	3·2	0·00	—0·14	0·00	...	0 ~~0·00~~	0·0	5·5	+0·6	1	0	3	0	0	0	19	4	3	0	0	0	8	5	10	7	0	0	Pasni.
3·0	+1·9	3·0	0·03	—0·02	0·03	16	0 ~~0·00~~	—0·2	3·6	—0·9	1	16	10	0	0	0	0	1	2	4	4	0	0	0	5	8	7	2	Panjgur.
3·2	...	2·6	0·00	...	0·00	...	0 ~~0·00~~	...	...	...	2	5	6	1	0	1	6	2	7	0	0	0	4	8	7	10	1	0	Jiwani.
																													SIND (Upper)
2·3	+1·4	2·5	0·00	—0·05	0·00	...	0 ~~0·00~~	—0·1	3·7	+2·5	0	0	6	8	1	1	0	1	13	0	0	0	15	5	2	4	2	2	Jacobabad.
1·5	+0·7	2·5	0·06	+0·06	0·06	21	0 ~~0·00~~	0·0	2·2	—0·4	0	4	2	14	4	1	0	0	5	4	5	0	0	3	6	0	3	9	Sukkur.
1·6	...	1·9	0·00	...	0·00	...	0 ~~0·00~~	...	2·9	...	3	2	2	6	2	0	0	3	12	6	1	0	3	5	2	3	6	4	Pad Idan.
																													SIND (Lower)
2·0	...	2·3	0·00	...	0·00	...	0 ~~0·00~~	...	3·4	...	4	7	3	0	8	2	0	0	6	3	0	0	0	1	2	8	16	0	Umarkot.
1·3	+0·2	1·8	0·00	—0·06	0·00	...	0 ~~0·00~~	—0·1	3·0	—0·5	8	0	1	1	3	7	5	0	5	4	5	2	2	7	6	3	0	1	Hyderabad.
2·8	+1·3	2·0	0·00	—0·08	0·00	...	0 ~~0·00~~	—0·3	4·9	—0·4	6	12	2	0	0	2	3	1	4	0	1	1	0	2	17	8	1	0	Karachi (Manora).
1·2	—0·1	0·1	0·00	—0·18	0·00	...	0 ~~0·00~~	—0·4	2·4	...	5	0	1	0	0	5	3	3	13	2	2	1	0	3	4	1	2	15	Badin.
																													HILL STATIONS (Excluding Kashmir and Baluchistan)
2·2	+0·2	3·3	0·03	—0·70	0·03	15	0	—1·2	3·8	0·0	3	4	2	0	0	0	6	9	6	0	3	1	0	0	0	10	6	10	Murree.
0·1	—1·6	0·4	0·25	—0·12	0·25	15	1	+0·4	6·0	—1·0	22	0	0	0	4	0	1	3	0	9	0	0	4	17	0	0	0	0	Cherat.
2·2	+0·1	3·0	0·39	+0·05	0·21	17	1	—0·2	2·1	+0·3	0	0	1	5	1	2	0	0	21	0	0	0	19	3	1	1	0	6	Drosh.
																													Parachinar (R)
1·3	+0·3	3·5	0·18	+0·11	0·09	16	0	—0·2	2·1	...	0	1	0	0	1	1	3	0	24	1	0	9	15	3	1	1	0	0	Wana.
																													AFGHANISTAN
2·7	...	2·7	0·00	...	0·00	...	0	...	2·2	...	0	0	0	0	0	7	15	0	8	0	4	15	0	0	1	1	0	9	Jalalabad.
3·2	+0·7	3·5	0·52	—0·08	0·52	15	1	—0·5	3·1	+1·0	2	3	1	0	3	7	8	5	1	6	8	3	4	1	0	0	0	8	Kabul.
2·8	...	2·7	0·12	...	0·12	15	1	...	1·1	...	0	2	0	0	0	0	0	0	28	0	0	0	0	0	6	0	4	20	Kandahar.

TABLE III.—ABSTRACT OF OBSERVATIONS RECORDED AT 4 and 12 HRS. (G.M.T.)

STATIONS	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32 °F and standard gravity Millibars			Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure Millibars			Relative humidity %		
		Mean 4 hrs.	Departure from normal	Mean 12 hrs.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 4 hours	Mean 12 hrs.	Mean 4 hrs.	Mean 12 hrs.	Mean 4 hrs.	Departure from normal	Mean 12 hrs.	Mean 4 hrs.	Departure from normal	Mean 12 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
IRAN																						
Jask	13	1014·2	...	1011·9	85·0	+0·8	93	7	71·2	+2·6	67	19, 23	75·7	82·7	68·0	73·1	22·5	+3·2	23·9	66	—1	56
Bushire	14	1016·6	...	1014·9	80·5	+2·6	91	2	65·2	+2·4	58	29, 30	67·6	78·5	63·4	71·1	18·6	+1·9	23·0	78	+6	69
Meshed	3,104	901·4	...	898·8	72·5	+11·4	87	9	33·8	+0·7	26	19	47·1	63·0	41·6	52·9	4·9	+1·0	9·7	61	—12	46
ARABIA																						
Muscat	15	1015·3	...	1012·9	83·1	—1·2	87	1, 8	75·4	+1·6	70	18	79·9	80·8	76·1	75·0	24·6	+2·8	27·2	70	+1	75
Sharjah	18	1015·5	...	1013·4	87·5	+1·4	93	6	65·9	+2·4	61	19	71·8	83·3	66·0	72·0	19·4	+1·7	21·1	72	+6	51
Bahrain	28	1015·2	...	1013·5	83·8	+2·4	93	2, 10, 12	70·1	+1·0	65	18, 29, 30	73·7	80·0	69·1	70·4	22·2	+0·5	21·1	78	—1	61

(R) Register not received.

TABLE IV.—ABSTRACT OF OBSERVATIONS RECORDED AT 0230 HRS. G. M. T. AT 4th CLASS STATION NOVEMBER 1947.

STATION	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 miles per hr.		Relative Humidity %		Mean cloud amount 0230 hours 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	0230 hrs. G. M. T.	Departure from normal		Total of the month	Departure from normal	Heaviest fall in 24 hrs.	Date	Days with 0.10" or more	Departure from normal	Resultant direction 0230 hrs. G. M. T.	Velocity in miles per hour.
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 ...	84·7	—1·8	90	5	62·4	—1·4	57	21, 22, 24	73·3	68·2	21·1	—0·2	76	—2	...	0	—0·55	0	...	0	—0·8	...	...
KASHMIR																							
Jammu (*) ...																							
IRAN																							
Zahidan ...	73·0	+4·2	81	4 days	46·2	+9·7	39	22	56·2	45·6	6·2	+0·2	41	—17	3·2	0·42	+0·23	0·25	15	2	+1·7	S 9E	4·9

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

Cloud amount (tents of sky)			Precipitation				Number of rain days (0·10" or more)		Wind velocity miles per hour		Wind direction—Number of winds from:— 4 hrs.									12 hrs.									STATION
Mean 8 hrs I.S.T.	Departure from normal	Mean 17 hrs I.S.T.	Total of the month	Departure from normal	Heaviest fall in 24 hrs	Date	Total in the month	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	
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
																													IRAN
3·6	+1·9	4·0	0·26	+0·02	0·26	18	1	+0·5	7·2	+0·6	4	11	9	1	0	0	0	4	1	0	0	2	6	5	11	6	0	0	Jask.
3·4	+1·0	3·4	2·26	+0·50	1·61	25	2	—0·6	6·6	+0·5	8	11	10	1	0	0	0	0	0	3	1	1	1	2	5	11	6	0	Bushire.
2·4	—1·9	2·7	0·07	—0·54	0·07	26	0	—1·7	0·6	—0·4	0	0	0	1	0	0	0	0	29	0	0	2	1	0	0	0	1	26	Meshed.
																													ARABIA
0·3	—1·3	0·4	0·00	—0·39	0·00	...	0	—0·7	3·9	+0·8	3	0	2	0	0	0	0	7	18	4	0	14	1	0	0	0	9	2	Muscat.
1·9	—0·1	2·7	0·97	+0·31	0·94	19	1	+0·6	6·7	+0·7	0	0	5	19	5	0	1	0	0	8	0	1	0	0	1	9	11	0	Sharjah.
3·2	+0·2	3·8	0·75	—0·10	0·37	24	3	+1·8	4·8	—2·1	2	0	1	2	4	3	4	4	10	9	2	6	2	1	1	0	9	0	Bahrain.

(R) Register not received.

TABLE V.—ABSTRACT OF OBSERVATIONS RECORDED AT 0230 HRS. G. M. T. AT 5th CLASS STATIONS NOVEMBER 1947.

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
ST BENGAL (North)							
	Rajshahi	0·00	—0·53	0·00	...	0	—0·8
	Sirajganj	0·12	—0·57	0·12	14	1	+0·2
	Rangpur (R)						
SHMIR							
	Sonamarg (*)						
	Gurez*						
UCHISTAN (North)	Harnai	0·02	—0·16	0·02	22	0	—0·3

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

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PAKISTAN WEATHER REVIEW, 1947

Monthly Weather Report

December

Published by the authority of the Government of Pakistan.

Summary:—(*i*) Eight western disturbances and their three secondaries traversed West Pakistan (*ii*) Two wet spells in East Pakistan.

West Pakistan.—Eight western disturbances and their three secondaries besides the disturbance of the previous month affected the weather in West Pakistan during the month. Last month's disturbance passed away after causing isolated rain in north-east Baluchistan on the 1st. The first two disturbances of the month and the secondary low which appeared over Sind on the 5th caused fairly widespread showers in Baluchistan on the 5th and in North Baluchistan, the northwest Punjab and the NWFP on the next day. Local showers or a few falls occurred in the other Sub-Divisions of West Pakistan from the 6th to 8th. The third and the fourth disturbance passed away without giving any precipitation whereas the secondary low which appeared over North Rajputana in association with the fourth disturbance and got accentuated there due to the passages of the fifth disturbance gave fairly widespread rain in the northwest Punjab from Lahore to Murree from the 21st to 23rd and isolated showers in the southwest Punjab on the 22nd. The fifth and sixth disturbance again did not produce any precipitation while the last two disturbances and the secondary low which appeared over North Rajputana on the last day of the month caused fairly widespread rain in the NWFP on the last day and local rain in the northwest Punjab from the 28th to 31st. A few showers also occurred in the upper NWFP on the 28th and northeast Baluchistan on the 31st. Day temperatures were above normal on the first 5 days. Nights were less cold than usual on the first nine days of the month and colder than usual from the 13th to 19th.

The total rainfall of the month was in moderate excess in the upper NWFP, in slight excess in the lower NWFP, normal in the northwest Punjab, in slight or moderate defect in North Baluchistan and lower Sind and in large defect elsewhere. The mean maximum and minimum temperatures were normal; humidity was above normal in the West Punjab and lower Sind and below normal in the upper NWFP. Skies were more clouded than usual in the northwest Punjab and less clouded than usual in North Baluchistan and lower Sind.

East Pakistan.—Local light rain occurred in East Pakistan on the 14th. A depression which formed in the west Central Bay on the 22nd and moved over to the northwest Bay on the 23rd induced fairly widespread showers in the eastern and deltaic Sub-Divisions of East Pakistan from the 22nd to 24th. The weather remained dry in East Pakistan during the rest of the month. Night temperatures were appreciably above normal from the 13th to 25th.

The total rainfall of the month was in large excess in all the three Sub-Divisions; in deltaic Sub-Division it was more than three times the normal value. The mean maximum temperature was normal and the mean minimum was above normal in the eastern and deltaic Sub-Divisions. Relative humidity was normal while the skies were more clouded than usual.

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 1947

DIVISION	PRECIPITATION				DEPARTURE FROM NORMAL OF:—				
							8 hrs. I. S. T. 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
	"	"	"		°	°	mb.	%	
East Bengal	0·57	0·26	+0·31	+119	+0·8	+2·7	+1·2	+1	+1·0
n of East Bengal	0·57	0·26	+0·31	+119	+0·8	+2·7	+1·2	+1	+1·0
West Punjab	0·39	0·48	—0·09	—19	+0·1	+1·6	+1·0	+9	+0·5
N.-W. F. P.	0·56	0·44	+0·12	+27	—0·9	+0·8	+0·3	—2	—0·3
Baluchistan	0·41	0·69	—0·28	—41	—0·1	—0·5	—0·8	—1	—0·8
Sind	0·06	0·13	—0·07	—54	+1·6	—0·5	+0·4	+4	—0·6
n of West Pakistan excluding Baluchistan ...	0·16	0·35	—0·19	—54	+0·4	+0·7	+0·7	+5	0·0
SUB-DIVISION									
East Bengal (North)	0·18	0·10	+0·08	+80	+1·5	+1·9	+1·1	—4	+0·5
East Bengal (East)	0·66	0·38	+0·28	+74	+1·1	+3·1	+1·1	+1	+0·9
East Bengal (Deltaic)	0·86	0·20	+0·66	+330	—0·2	+2·5	+1·3	+5	+1·6
Kashmir*									
North West Punjab	0·62	0·62	0·00	0	—0·2	+1·6	+1·3	+8	+0·9
South West Punjab	0·01	0·24	—0·23	—96	+0·5	+1·6	+0·6	+10	0·0
N.-W. F. P. (Upper)	0·96	0·67	+0·29	+43	+0·5	0·0	0·0	—7	—0·9
N.-W. F. P. (Lower)	0·36	0·32	+0·04	+13	—1·5	+1·3	+0·5	0	—0·1
Baluchistan (North)	0·60	0·71	—0·11	—15	—0·4	—0·9	—0·7	—1	—1·1
Baluchistan (South)	0·07	0·65	—0·58	—89	+0·3	—0·1	—0·9	0	—0·4
Sind (Upper)	0·00	0·10	—0·10	—100	+1·7	—0·3	+0·5	+1	+0·1
Sind (Lower)	0·10	0·15	—0·05	—33	+1·6	—0·7	+0·4	+6	—1·1

*Data incomplete.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T.(2· 30 HR

STATION	Height of Bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity Millibars			Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet Bulb temperature °F		Vapour pressure Millibars			Relative humidity %		
		Mean 8 hrs. I.S.T.	Departure from normal	Mean 17 hrs. I.S.T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 8 hrs. I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs I.S.T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal	Mean 17 hrs. I.S.T.	Mean 8 hrs. I.S.T.	Departure from normal	Mean 17 hrs. I.S.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	1014·2	—0·9	1011·1	79·3	+2·6	82	4 days	56·6	+2·1	47	12	63·3	73·6	60·2	65·1	16·3	+1·3	17·6	82	+3	
Dinajpur	123	1011·6	—1·4	1003·6	80·6	+3·5	83	7 days	53·5	+1·5	50	8 days	65·5	73·5	60·4	64·5	15·4	+1·2	16·3	70	—14	
EAST BENGAL (East)																						
Cox's Bazar ...	38	1014·0	—0·5	1011·3	81·5	+1·8	89	15	62·5	+3·8	54	28	70·8	74·6	65·7	67·5	19·6	+1·0	20·2	75	—6	
Chittagong	87	1012·5	—1·0	1009·8	80·3	+1·3	89	15	60·7	+3·5	52	26	67·2	73·1	63·4	66·6	17·9	+0·5	19·3	83	—2	
Noakhali	22	1014·8	—1·1	1011·7	80·0	+1·5	85	11, 25	61·7	+2·0	53	28, 29	66·9	76·0	63·1	68·3	17·9	+0·4	20·4	80	—4	
Comilla	29	1014·1	—1·8	1011·5	79·9	+0·7	85	14, 31	59·4	+4·6	51	26, 27, 28	64·9	75·6	62·4	67·7	18·2	+1·2	19·8	86	+6	
Narayanganj ...	26	1014·1	—1·9	1011·4	81·7	+3·2	86	31	59·6	+2·1	51	27	66·1	74·0	63·4	66·1	18·9	+2·5	18·2	81	—1	
Brahmanbaria ...	32	1014·6	...	1012·1	78·7	—1·1	83	31	60·0	+4·6	50	27	65·3	73·1	62·4	66·8	17·6	+0·9	19·3	83	+9	
Srimangal ...	69	1013·6	—0·9	1010·5	79·2	—1·2	85	14	53·3	+3·8	44	27	61·5	74·7	60·0	67·4	16·7	+1·5	20·1	91	+4	
Mymensingh ...	62	1014·6	—0·5	1011·7	80·1	+2·4	83	3, 7, 31	56·6	+0·8	49	27	63·4	71·7	60·8	64·9	16·9	+0·8	17·9	85	—1	
EAST BENGAL (Deltaic)																						
Faridpur (R) ...	46	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Barisal	11	1015·7	—0·4	1012·8	78·8	+0·7	83	1, 31	60·8	+4·2	53	27, 28	66·7	73·5	63·2	66·4	18·4	+1·3	18·7	82	0	
Khulna	16	1016·0	—0·7	1013·1	78·9	+0·2	85	3	60·1	+2·8	53	28	65·4	73·9	61·9	65·5	17·1	+1·2	17·6	80	+8	
Jessore	26	1015·3	—1·2	1012·4	79·0	+0·1	85	1	51·8	+0·3	42	4	63·5	72·9	60·9	65·5	16·9	+1·4	18·1	85	+6	
Satkhira	16	1014·5	—2·0	1011·7	78·9	—1·7	85	20	57·1	+2·7	50	26, 28	62·5	74·3	60·1	66·4	16·9	+1·2	18·2	86	+7	
KASHMIR																						
Srinagar*	5,205																					
Gulmarg*	8,709																					
Dras*	10,059																					
Leh*	11,529																					
Skardu *	7,505																					
Gilgit*	4,890																					
Misgar	10,190	698·8	...	696·7	31·5	...	41	1, 2, 3	†	...	†	...	16·5	26·5	14·2	22·7	2·0	...	2·9	66	...	
NORTHWEST PUNJAB																						
Lahore	702	992·2	—0·8	990·9	71·4	—0·9	78	3, 5	43·5	+2·9	34	17	46·6	67·3	46·0	57·5	10·3	+1·7	11·8	96	+10	
Sialkot	830	987·8	—0·8	986·6	68·1	—1.3	79	1	46·4	+4·2	37	16	50·1	63·9	47·6	56·3	10·1	+1·1	12·1	87	+1	
Rawalpindi	1,674	959·2	—0·2	957·9	66·7	—0·1	78	4, 5, 6	38·1	+0·3	30	17, 18	42·2	60·1	40·2	51·1	7·6	+0·9	8·3	85	+8	
Khushab	616	995·5	—1·3	994·3	71·5	—0·2	83	3	38·8	—1·6	32	18	47·1	68·0	43·8	57·1	8·2	+1·9	11·0	77	+15	
Lyallpur	605	995·5	—1·0	994·2	72·0	+1·3	80	1, 3	44·4	+2·2	35	17	46·5	67·7	44·4	56·5	9·0	+0·8	10·5	83	+5	
SOUTHWEST PUNJAB																						
Montgomery ...	558	997·4	—1·0	996·1	72·0	0·0	81	6	44·8	+1·7	37	18	47·0	69·6	45·4	57·0	9·6	+1·1	10·2	87	+9	
Multan	413	1003·2	—0·6	1001·3	72·6	+0·9	82	3	45·1	+1·7	36	17, 18	47·3	70·3	45·1	57·5	9·3	—0·6	10·5	83	+9	
Fort Abbas	475	1000·3	...	998·2	75·1	...	88	6	44·4	...	36	16, 17, 18	48·6	72·0	45·6	57·3	9·0	...	9·5	78	...	
Bahawalpur	384	1003·9	—0·7	1001·7	74·0	0·0	84	5	45·1	+1·5	36	18	47·0	70·4	45·3	59·5	9·6	+1·2	12·4	88	+13	
Khanpur (R) ...	297	...	...		...	...			...													

* Data not available. (R)—Register not received. † Data rejected.

Cloud amount (Tenths of Sky)			Precipitation				Number of rainy days (0·10" or more)		Wind velocity miles per hour		Wind direction—No. of winds from:— 8 hrs. I. S. T.									17 hrs. I. S. T.									STATION
Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	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	
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
			in.	in.	in.																								
																													EAST BENGAL (North)
2·9	+1·5	2·5	0·12	+0·03	0·10	15	1	+0·8	1·5	+0·5	8	9	4	1	0	1	2	3	3	1	1	0	1	0	0	4	1	23	Bogra.
0·6	—0·6	0·4	0·00	—0·06	0·00	...	0	—0·1	0·1	—1·1	0	1	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	31	Dinajpur.
																													EAST BENGAL (East)
3·4	+1·3	3·5	0·77	—0·21	0·54	24	2	+1·4	2·5	+1·1	8	12	5	0	0	0	0	1	5	9	1	0	0	0	1	0	15	5	Cox's Bazar.
3·3	+1·3	3·3	1·45	+0·21	0·92	24	3	+2·3	3·5	—0·1	6	12	3	0	0	0	0	0	10	13	2	0	0	0	1	4	8	3	Chittagong.
4·9	+0·3	2·9	0·90	+0·62	0·55	24	2	+1·6	3·5	+1·9	21	1	0	1	0	0	2	4	2	19	0	0	2	0	0	5	4	1	Noakhali.
3·3	+2·0	3·4	0·61	+0·31	0·33	24	2	+1·6	1·5	+0·4	14	0	1	0	2	0	0	0	14	6	1	2	3	1	0	2	1	15	Comilla.
2·7	+0·8	2·9	0·12	—0·08	0.05	23	0	—0·4	1·2	0·0	8	6	3	1	1	0	4	8	0	5	2	3	1	1	1	7	11	0	Narayanganj.
3·0	...	3·0	0·64	+0·33	0·32	24	2	+1·5	1·5	...	9	3	3	1	3	3	0	4	5	10	1	1	1	0	1	1	3	13	Brahmanbaria.
2·5	+0·9	2·6	0·56	+0·31	0·40	24	2	+1·5	1·5	+0·2	0	2	0	3	4	1	0	1	20	0	1	1	1	0	2	6	2	18	Srimangal.
1·3	—0·6	1·9	0·23	+0·14	0·23	15	1	+0·7	1·2	+0·6	1	1	7	1	0	0	1	2	18	0	0	2	2	0	0	0	0	27	Mymensingh.
																													EAST BENGAL (Deltaic)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Faridpur (R).
3·6	+2·2	3·4	0·99	+0·74	0·54	23	3	+2·5	1·7	+0·4	5	4	0	1	0	0	0	8	13	2	1	0	1	0	0	0	3	24	Barisal.
3·1	+1·5	3·3	1·01	+0·82	0·68	23	2	+1·7	1·8	—0·1	10	2	1	0	1	0	0	7	10	4	1	0	0	0	0	0	7	19	Khulna.
2·6	+1·3	2·0	0·55	+0·37	0·39	23	1	+0·1	1·7	+0·7	12	6	1	3	0	0	0	3	6	2	1	0	0	0	0	0	2	26	Jessore.
2·9	+1·5	3·0	0·90	+0·73	0·90	23	1	+0·7	1·4	+0·4	13	1	0	1	0	2	1	4	9	4	0	0	0	0	1	0	5	21	Satkhira.
																													KASHMIR
																													Srinagar*
																													Gulmarg.*
																													Dras.*
																													Leh.*
																													Skardu.*
																													Gilgit.*
4·7	...	5·1	0·04	...	0·04	6	0	...	3·1	...	1	5	2	0	1	3	7	12	0	0	2	17	5	0	2	3	2	0	Misgar.
																													NORTH WEST PUNJAB
4·4	+1·4	4·0	0·43	—0·04	0·19	21	2	+1·0	2.2	+1·3	1	2	2	2	0	0	0	2	22	1	3	3	2	2	0	2	7	11	Lahore.
3·8	+1·2	4·2	1·44	+0·72	0·64	23	3	+1·7	1.8	+1·0	1	7	0	2	0	0	0	6	15	0	3	3	1	0	0	3	10	11	Sialkot.
4·8	+1·5	5·2	0·89	—0·35	0·70	28	2	—0·3	1.7	—0·3	0	0	0	0	1	1	0	0	29	0	2	0	1	1	5	7	0	15	Rawalpindi.
2·5	+0·2	3·4	0·23	—0·20	0·12	7	2	+1·1	2.8	+0·6	3	6	5	1	1	0	2	0	13	1	6	6	4	2	2	2	4	4	Khushab.
4·4	+0·4	4·6	0·09	—0·16	0·03	6, 7, 31	0	—0·8	1.4	0·0	1	1	1	0	1	3	3	0	21	9	3	1	0	0	1	6	4	7	Lyallpur.
																													SOUTHWEST PUNJAB
3·8	+1·5	3·5	0.02	—0·24	0·01	6, 22	0	—0·8	1·4	—0·4	1	2	0	1	0	4	2	1	20	0	1	1	4	0	1	2	3	19	Montgomery.
2·2	—0·1	2·5	0·02	—0·22	0·02	6	0	—0·7	1·6	+0·6	11	0	2	0	2	0	0	2	14	11	1	3	0	0	0	0	2	14	Multan.
1·4	...	1·3	0·00	...	0·00	...	0	...	3·4	...	4	6	6	4	2	0	0	5	4	12	6	0	1	1	0	5	4	2	Fort Abbas.
1·0	—1·4	1·2	0·00	—0·22	0·00	...	0	—0·6	1·8	0·0	1	3	3	1	3	0	0	1	19	4	3	0	0	0	0	1	3	20	Bahawalpur.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Khanpur (R)

* Data not available.

(R)—Register not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. I.S.T. (2·30 HRS

STATION	Height of Bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, Millibars			Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure Millibars				Relative humidity %	
		Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. S. T.	Departure from normal.	Mean 17 hrs. I. S. T	Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
N.-W. F. PROVINCE (Upper)																						
Peshawar	1,175	976·9	—0·8	975·6	67·2	+0·5	76	3, 4	40·9	0·0	33	15, 16	44·6	62·8	39·6	51·6	6·1	0·0	8·0	60	—7	43
N.-W. F. PROVINCE (Lower)																						
Bannu	1,264	972·1	...	971·9	68·6	—1·5	80	3	43·2	+1·2	38	15, 16	47·3	65·9	41·9	52·8	6·7	+0·4	7·8	61	—1	37
Miranshah * ...	3,026	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
D. I. Khan	570	(a) 997·4	—0·9	995·8	(a) 69·9	—1·6	80	3	(a) 42·5	+1·3	36	17	(a) 46·6	66·6	(a) 42·9	56·3	(a) 7·7	+0·6	10·7	(a) 73	—1	46
BALUCHISTAN (North)																						
Fort Sandeman ...	4,614	862·6	+0·2	861·1	61·7	+1·8	71	1	34·6	+1·2	26	30, 31	37·4	56·9	32·3	43·8	4·2	—0·6	4·6	53	—22	30
Loralai	4,699	859·1	...	857·4	60·3	...	71	1	31·7	...	23	29, 30	34·6	56·5	29·3	42·0	3·4	...	3·5	56	...	26
Sibi	441	1002·9	+1·0	1000·0	76·6	+1·7	86	1, 2, 3	44·0	—1·5	37	16, 17, 21	47·2	73·5	40·1	54·0	5·3	—0·9	5·3	47	—5	20
Quetta	5,490	834·9	—1·2	833·5	53·8	...	70	27	26·2	...	15	29	31·0	51·0	29·7	40·9	5·0	+0·4	5·2	89	+14	42
Chaman	4,311	876·8	+4·1	876·5	56·5	—0·5	69	27	*	...	*	...	41·4	54·4	35·8	43·9	4·9	—0·5	5·4	55	+7	39
Kalat	6,616	802·0	+0·6	800·6	52·5	—2·8	66	27	24·5	—1·6	13	29	27·8	49·0	24·5	36·5	3·2	+0·3	2·9	66	0	27
Dalbandin	2,785	923·3	+1·2	921·5	64·6	—0·6	81	26	34·5	—0·5	24	31	38·5	62·9	35·6	52·1	6·0	+0·3	8·8	72	+1	48
Nokkundi	2,229	941·2	...	937·2	71·0	+0·1	85	25, 26	40·7	—2·7	27	28	44·3	67·6	37·4	51·3	4·4	—1·3	5·6	49	—6	28
BALUCHISTAN (South)																						
Las Bela	292	1007·7	+0·6	1004·9	82·3	—1·0	91	2	(b) 48·2	—0·8	37	17	52·0	81·4	49·0	71·0	10·5	—0·4	20·7	78	+15	56
Ormara	15	*	...	*	79·0	+1·6	85	23	58·6	—0·3	50	17	61·0	77·1	56·1	65·2	13·1	—1·9	15·7	73	—5	51
Pasni	10	1017·1	—0·1	1014·5	78·2	+0·3	83	3, 7	57·1	+0·5	48	17	62·0	75·9	57·0	65·8	13·6	—0·5	17·3	73	—3	58
Panjgur	3,177	909·3	+0·7	(a) 907·5	67·0	+0·5	76	24, 25, 26	(b) 40·2	+0·4	33	17, 31	41·0	(a) 63·1	36·3	(a) 47·7	5·3	—1·0	(a) 4·3	57	—8	(a) 21
SIND (Upper)																						
Jacobabad	186	1011·0	—0·9	1008·7	76·7	+2·3	87	2	45·3	—1·2	38	15, 16, 29	48·4	74·5	43·9	60·4	7·6	—0·8	12·0	67	—2	40
Sukkur	221	1010·5	+0·4	1007·3	75·0	+1·2	86	4	49·0	+0·3	41	18	54·1	73·9	49·7	57·6	10·7	+1·8	11·0	70	+3	31
Pad Idan	153	1012·1	...	1010·0	77·6	...	86	2, 4	43·6		35	16	45·6	75·3	43·3	58·9	8·5	...	9·4	81	...	32
SIND (Lower)																						
Umarkot	55	1014·1	...	1011·4	80·9	...	93	5	48·8	...	40	18	51·4	79·6	46·9	63·8	9·0	...	13·1	69	...	38
Hyderabad	96	1014·0	—0·6	1011·2	79·7	+1·1	90	2	52·7	+0·1	42	15	54·7	77·0	49·0	59·3	9·6	+0·6	9·5	63	+3	30
Karachi (Manora) ...	13	1016·3	—0·9	1013·9	79·8	+1·1	89	4, 5	61·3	+0·2	54	15, 16, 29	62·8	76·8	57·2	65·0	13·7	+1·9	15·9	69	+5	50
Badin	31	1015·3	—0·7	1012·8	83·0	+2·5	94	2	49·5	—2·3	38	17	52·5	79·4	47·6	61·0	8·5	—1·4	9·8	72	+9	31
HILL STATIONS (Excluding Kashmir and Baluchistan)																						
Murree	7,113	785·3	—0·5	785·3	48·0	—2·7	57	1, 4	34·0	—0·9	27	24, 29, 30	37·7	42·2	32·2	37·0	4·2	+0.3	5.6	51	+1	64
Chirat	4,272	872·8	—0·1	872·5	55·1	+1·3	66	1	43·1	+0·7	36	23, 24	46·1	50·6	39·9	43·0	5·9	+1·3	6.3	55	+5	51
Drosh	4,806	859·5	+0·7	856·9	52·0	+1·5	63	3	36·3	+0·7	31	31	38·7	48·2	32·9	37·6	4·0	—0.8	3.4	52	—15	38
Parachinar	5,673	828·9	0·0	828·2	56·4	+1·6	66	3, 4	33·1	+0·6	28	24, 29	35·8	50·2	31·6	39·4	4·6	—0.3	4.4	62	—3	41
Wana	4,456	834·7	...	834·9	58·2	—1·7	69	2	29·4	—0·1	20	29	32· :	53·6	30·4	43·4	5·0	+0.6	5.4	78	+6	38
AFGHANISTAN																						
Jalalabad	1,950	974·9	...	946·3	66·4	...	77	1, 3	35·7	...	28	18	39·0	62·4	35·2	50·9	5·4	...	8·1	67	...	43
Kabul	5,955	823·0	...	821·8	49·2	+1·6	61	3	27·1	+0·4	17	29, 30	30·3	44·1	27·2	37·1	3·9	+0·6	5·0	70	—2	53
Kandahar	3464	908·1	...	906·3	60·7	...	71	2, 3	27·7	...	19	29, 31	35·9	57·6	34·4	47·4	6·2	...	7·0	87	...	46

(a)—Mean of 30 days. (b)—Mean of 29 days. * Data not available.

Cloud amount (Tenths of sky)			Precipitation				Number of rainy days (0·10" or more)		Wind velocity miles per hour		Wind direction—Number of winds from —																		STATION
											8 hrs. I S. T.									17 hrs. I. S. T.									
Mean 8 hrs. I. S. T.	Departure from normal	Mean 17 hrs. I. S. T.	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	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	
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
			in.	in.	in.																								N.-W. F. PROVINCE (Upper)
4·1	—0·9	4·3	0·96	+0·29	0·59	23	2	+0·4	2·5	+1·3	0	0	0	3	6	14	0	0	8	3	7	3	5	1	3	1	0	10	Peshawar.
																													N.-W. F. PROVINCE (Lower)
2.8	+0·1	3·1	0·68	+0·28	0·66	31	1	—0·5	2·5	...	0	0	0	0	0	0	4	14	13	0	0	0	18	2	0	0	4	7	Bannu.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Miranshah. *
(a) 2·7	—0·2	3·4	0·04	—0·20	0·04	6	0	—0·7	(a) 1·3	+0·6	3	1	0	0	0	1	4	1	20	0	5	0	1	0	0	0	0	25	D. I. Khan.
																													BALUCHISTAN (North)
2·5	—0·7	4·2	0·42	—0·15	0·19	6	2	+1·8	2·5	+1·1	2	1	3	8	7	2	4	0	4	5	5	4	0	1	1	4	3	8	Fort Sandeman.
2.3	...	3·3	0·69	+0·19	0·50	6	2	+0.5	4·5	...	0	0	0	0	2	4	20	4	1	0	3	4	6	10	3	1	2	2	Loralai.
3·5	—0·4	2·9	0·05	—0·25	0·04	6	0	—0·7	1·8	+0·1	4	2	1	0	0	1	0	3	20	1	0	5	7	7	5	1	2	3	Sibi.
2·9	—0·5	3·5	0·99	...	0·75	6	2	...	4·2	+2·2	4	5	0	7	8	1	1	1	4	8	1	0	0	1	7	3	11	0	Quetta.
0·5	—3·1	0·5	1·77	+0·42	1·35	6	3	—0·2	3·8	—0·2	0	2	4	8	1	1	0	1	14	0	0	0	2	0	14	1	12	2	Chaman.
2·6	—0·2	2·8	0·60	—0·34	0·36	5	2	—0·2	4·9	+1·0	0	1	0	5	24	0	0	0	1	5	3	0	0	1	5	3	14	0	Kalat.
2·6	—0·3	(a) 3·4	0·41	—0·27	0·41	5	1	—0·8	3·3	+0·6	1	1	0	0	0	0	0	3	26	0	5	8	2	0	0	2	1	13	Dalbandin.
1·3	—2·1	0·7	0·12	—0·02	0·10	5	1	+0·1	5·1	+0·3	11	7	1	0	0	0	2	3	7	2	1	2	9	8	0	0	7	2	Nokkundi.
																													BALUCHISTAN (South)
0·3	—1·3	0·0	0·02	—0·54	0·02	10	0	—0·7	2·2	+0·5	8	2	3	0	0	0	0	9	9	3	1	1	3	13	7	0	1	2	Las Bela.
2·4	—0·2	1·9	0·00	—0·64	0·00	...	0	—1·2	4·1	—0·1	0	2	5	9	1	0	2	0	12	0	1	1	9	5	6	8	1	0	Ormara.
2·9	+0·6	1·7	0·00	—0·84	0·00	...	0	—1·5	6·2	+1·1	3	0	2	1	1	0	5	16	3	1	2	2	11	4	5	5	1	0	Pasni.
2.1	—0·6	(a) 1·9	0·24	—0·33	0·24	5	1	—0·4	4·8	+0·1	2	16	11	1	0	0	0	0	1	10	3	0	0	2	3	6	6	0	Panjgur.
																													SIND (Upper)
2·3	+0·3	1·9	0·00	—0·17	0·00	...	0	—0·5	3·2	+0·9	1	1	2	4	0	0	4	4	15	3	3	3	2	2	1	4	10	3	Jacobabad.
1·6	0·0	1·4	0·00	—0·03	0·00	...	0	—0·2	2·4	—0·1	1	6	6	10	2	2	0	0	4	9	8	1	4	0	1	0	1	7	Sukkur.
2·1	...	1·0	0·00	...	0·00	...	0	...	2·8	...	4	2	0	0	0	0	3	7	15	13	5	0	1	3	1	1	4	3	Pad Idan.
																													SIND (Lower)
1·6	...	0·9	0·00	...	0·00	...	0	...	4·1	...	12	6	2	1	1	1	0	0	8	16	2	0	0	1	2	3	7	0	Umarkot.
0·4	—1·3	0·7	0·00	—0·10	0·00		0	—0·3	3·1	—0·9	23	3	1	0	1	0	1	0	2	9	11	5	0	1	1	1	0	3	Hyderabad.
0·9	—1·3	0·8	0·31	+0·11	0·31	6	1	—0·5	4·8	—1·1	3	23	3	0	0	0	0	0	2	0	8	1	1	4	12	4	1	0	Karachi (Manora).
0·9	—0.7	0·0	0·00	—0·15	0·00	0	0	—0·4	3.9	—	15	0	0	1	0	2	0	3	10	15	3	0	0	1	1	3	2	6	Badin.
																													HILL STATIONS (Excluding Kashmir and Baluchistan).
4·8	+0·9	6·5	2·84	+1·04	0·97	7	8	+4·8	7·9	+2·9	0	8	9	5	1	0	2	2	4	0	2	4	8	0	0	4	3	10	Murree.
1·2	—2·4	1·7	1·33	—0·23	0·60	23	4	+1·8	12·2	+2·4	29	0	0	1	0	0	1	0	0	20	0	0	1	5	2	0	3	0	Cherat.
4·7	+0·3	5·8	1·36	+0·16	0·42	23	4	+0·8	2·9	+0·8	0	3	3	4	1	5	0	1	14	0	3	4	16	1	5	0	0	2	Drosh.
2·9	—0·8	4·5	0·68	—0·55	0·58	6	2	—0.9	3·1	+1·1	13	6	0	0	0	0	2	8	2	1	1	4	15	4	2	2	1	1	Parachinar.
2·4	+0·4	3·8	0·70	0·00	0·31	6	3	+1.2	2·0	...	0	0	0	2	0	5	2	1	21	0	3	3	15	5	2	1	1	1	Wana.
																													AFGHANISTAN
4·4	...	4·5	0·33	...	0·33	31	1	...	2·0	...	0	0	0	0	0	7	15	1	8	0	2	5	7	0	1	4	2	10	Jalalabad.
4·1	—0·7	4·4	0·68	+0·09	0·34	6	2	+0.4	4·3	+1·8	3	1	1	1	6	6	3	4	6	2	3	3	3	3	6	2	2	7	Kabul.
3·1	...	3·1	1·35	...	0·85	6	2	...	1·3	...	0	1	0	2	0	0	0	2	26	0	1	0	0	0	5	0	0	25	Kandahar.

* Data not available.

(a) Mean for 30 days.

TABLE III.—ABSTRACT OF OBSERVATIONS RECORDED AT 4 HR

STATION	Height of Bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, Millibars			Maximum temperature °F				Minimum temperature °F				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure Millibars			Relative humidity %		
		Mean 4 hrs.	Departure from normal	Mean 12 hrs.	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Mean 4 hrs.	Mean 12 hrs.	Mean 4 hrs.	Mean 12 hrs.	Mean 4 hrs.	Departure from normal	Mean 12 hrs.	Mean 4 hrs.	Departure from normal	Mean 12 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
IRAN																						
Charbar (R) ...	25																					
Jask	13	1016·6	...	1014·2	77·5	—0·3	84	1, 2	63·4	+0·2	56	29	67·4	76·0	58·7	62·8	12·9	—3·2	13·6	54	—16	[illegible]
Bushire	14	1019·6	...	1017·9	69·5	+1·5	78	14	55·2	+0·4	48	27, 29	57·5	68·3	54·0	62·6	12·7	—0·3	16·8	79	—1	[illegible]
Meshed	3,104	901·5	...	898·5	57·9	+7·9	72	25	23·1	—4·5	11	27	35·9	50·2	30·4	41·5	3·6	—1·5	5·3	52	—32	[illegible]
ARABIA																						
Muscat	15	1017·6	...	1015·6	76·1	—2·0	82	2, 3	68·2	—0·5	64	4 days	71·3	74·3	65·9	68·2	19·3	+1·6	20·5	74	+2	[illegible]
Sharjah	18	1017·7	...	1015·6	78·5	+0·2	83	2, 13	57·0	—1·2	46	29	61·3	75·1	56·6	65·4	13·5	—1·6	17·0	73	—10	[illegible]
Bahrain	28	1018·1	...	1016·4	72·1	+0·4	77	8, 9, 15	61·0	+0·1	49	27	64·0	71·9	61·6	64·4	17·6	+0·9	17·3	86	0	[illegible]

(R) Register not received.

TABLE IV.—ABSTRACTS OF OBSERVATIONS RECORDED AT 0230 HRS. G.M.T. AT 4TH CLASS STATIONS, DECEMBER 1947

STATION	Maximum temperature °F				Minimum temperature °F				Mean dry bulb temperature 0230 °F hrs. G. M. T.	Mean wet bulb temperature 0230 °F hrs. G. M. T.	Vapour, pressure, inches		Relative Humidity %		Mean cloud amount 0230 hrs. G. M. T. (tenths of sky)	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-in. or more	Departure from normal	Resultant direction 0230 hrs. G. M. T.	Velocity in miles per [illegible]
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
																in.	in.	in.					
EAST BENGAL (North)																							
Pabna	78·5	—1·5	84	4	56·7	+2·2	49	26	65·0	61·1	16·5	+0·9	78	—1	...	0·43	+0·24	0·43	15	1	+0·6	...	...
KASHMIR																							
Jammu (*) ...																							
Kargil (*) ...																							
IRAN																							
Zahidan ...	59·8	+1·7	76	25	33·6	+2·6	22	29	41·3	35·1	4·5	—1·3	54	—14	3·6	0·47	+0·14	0·22	5	3	+1·8	S 15	4[illegible]

(*) Data not available.

Cloud amount (tenths of sky)		Precipitation				Number of rainy days (0·10" or more)		Wind velocity miles per hour		Wind direction—Number of winds from— 4 hrs.									12 hrs.									STATION
Departure from normal	Mean 12 hrs.	Total of the month.	Departure from normal	Heaviest fall in 24 hrs.	Date	Total in the month.	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	
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
																												IRAN
																												Charbar (R).
3	—0·5	2·7	1·32	+0·17	0·88	2	3	+1·0	7·8	+0·3	12	14	1	0	0	0	0	4	0	1	0	2	5	6	9	8	0	0	Jask.
7	+0·6	3·6	1·44	—1·67	1·07	26	2	—2·1	6·6	+0·1	10	13	4	1	0	0	0	3	0	6	1	1	1	1	0	5	16	0	Bushire.
5	—2·6	3·2	0·00	—0·66	0·00	...	0	—2·2	0·7	—0·2	0	0	0	0	0	0	0	1	30	0	0	0	0	0	0	1	0	30	Meshed.
																												ARABIA
6	—1·2	1·3	2·78	+2·08	1·35	3	4	+2·4	3·7	+0·2	0	0	0	0	0	0	1	4	26	1	0	0	2	0	0	1	12	15	Muscat.
6	—2·0	2·1	0·38	—0·45	0·28	3	1	—0·5	6·7	+0·9	0	2	6	14	6	1	0	0	2	5	1	1	0	0	5	8	11	0	Sharjah.
4	—1·7	2·2	0·69	—0·02	0·69	2	1	—0·5	4·8	—3·1	0	0	0	0	0	2	5	12	12	2	0	1	3	0	0	1	21	3	Bahrain.

(a) Mean of 30 days.

TABLE V.—ABSTRACT OF OBSERVATIONS RECORDED AT 0230 HRS. G.M.T. DECEMBER 1947

DIVISION	STATION	PRECIPITATION Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0·10-in. or more	Departure from normal
1	2	3	4	5	6	7	8
		in.	in.	in.			
BENGAL (North)							
	Rajshahi	0·10	—0·01	0·10	15	1	+0·8
	Sirajganj	0·23	+0·14	0·17	15	1	+0·7
	Rangpur (R)						
HMIR							
	Sonamarg (*)						
	Gurez (*)						
UCHISTAN (North)	Harnai	0·21	—0·56	0·09	6	1	—0·4

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

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