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PAKISTAN WEATHER REVIEW, 1961

MONTHLY WEATHER REPORT

January

(PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN)

Chief Features:

Five Western disturbances with four active secondaries affected the weather in West Pakistan.

Four low pressure waves moved across East Pakistan, the last of these caused fairly widespread rainfall there in the first week.

East Pakistan

As a result of the passage of two low pressure waves across East Pakistan, cloudy to overcast skies with scattered rain occurred in Rajshahi, Khulna and Chittagong divisions, on the 2nd and the 4th. Two other low pressure waves affected the region causing fairly wide-spread rain in Khulna and Dacca divisions and local in Rajshahi division on the 22nd.

The total rainfall during the month was normal in Khulna division, in slight excess in Rajshahi division and in moderate defect elsewhere. Averaged over the region as a whole, it was in slight defect.

The mean maximum temperature was normal over the region outside Dacca division where it was above normal.

The mean minimum temperature was above normal over the whole region.

The mean relative humidity was in excess in Khulna division and normal elsewhere.

The mean cloud amount was in defect in Rajshahi division, normal in Chittagong and Dacca divisions and in excess elsewhere.

West Pakistan

The first two western disturbances moving West of Afghanistan induced secondaries over D. I. Khan division: one of them caused fairly wide-spread rain thundershowers in the northern divisions on the 2nd and the 3rd and the other, local rain/snow in Quetta Division on the 7th and in Peshawar and Rawalpindi divisions on the 9th and the 10th. The later system was followed by a cold wave bringing the night temperatures to 12-18°F below normal on the 11th.

The third western disturbance having moved from the Persian Gulf through Baluchistan and D. I. Khan division caused local rain in Kalat division and scattered in Karachi Federal Area, Quetta and Khairpur divisions on the 17th and 18th.

The last two disturbances moved in quick succession and passing through Kalat, Quetta and D. I. Khan divisions induced secondaries.

The system caused wide-spread rain/thundershowers in Peshawar and D. I. Khan divisions and local in Lahore division on the 26th and again wide-spread rain/thundershowers in the northern divisions on the last 3 days. Local or scattered rain also occurred in Kalat, Quetta, Khairpur and Hyderabad divisions during the same period.

Parachinar recorded 1-1/2" on the 20th, Kabul 2" on the 29th, Lahore and Cherat 2" each on 30th and Kalat 2" on the 31st.

The total rainfall during the month was in large defect in the Karachi Federal Territory, Hyderabad and Quetta divisions in moderate defect in Khairpur division, normal in Kalat division in slight excess in D. I. Khan division and in large excess elsewhere. Averaged over the region, it was in moderate excess.

The mean maximum temperature was above normal in Peshawar, Quetta, Hyderabad and Khairpur divisions and normal elsewhere.

The mean minimum temperature was normal over the region outside Lahore, Multan and Bahawalpur divisions where it was above normal.

The mean relative humidity was in excess in Sargodha, Bahawalpur, D. I. Khan and Hyderabad divisions and normal elsewhere.

The mean cloud amount was in defect in Sargodha, Quetta and Hyderabad divisions and in the Karachi Federal Territory, in excess in Khairpur division and normal over rest of the region.

Table I contains the divisional means of rainfall, temperature, relative humidity and cloud amount for the 16 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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March 28, 2002

TABLE I.—DIVISIONAL MEANS FOR JANUARY, 1961.

Division	PRECIPITATION				DEPARTURE FROM NORMAL OF				
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	0300 hrs. G. M. T.		
							Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	Mb.	%	
EAST PAKISTAN									
Chittagong	0.13	0.23	—0.01	—43	+1.0	+3.0	+0.8	0	+0.2
Dacca	0.20	0.36	—0.16	—44	+2.2	+2.2	+1.0	+1	+0.3
Khulna	0.39	0.41	—0.02	—5	+0.4	+3.0	+2.2	+8	+0.3
Rajshahi	0.46	0.40	+0.06	+15	+1.8	+2.8	+1.0	—5	—0.8
Mean	0.29	0.34	—0.05	—15	+1.3	+2.8	+1.2	+1	0.0
WEST PAKISTAN									
Kashmir (x)									
Lahore	3.48	1.50	+1.98	+132	+0.3	+2.7	+0.9	—1	+0.1
Rawalpindi	5.43	3.14	+2.31	+74	—0.5	0.0	+0.1	+5	+0.5
Sargodha	1.27	0.55	+0.72	+131	+0.2	+0.9	+1.1	+14	—0.9
Multan	1.09	0.41	+0.68	+166	+0.9	+2.6	+0.7	+5	—0.1
Bahawalpur	0.90	0.19	+0.71	+374	+0.9	+3.4	+2.0	+12	—0.3
Peshawar	4.82	1.79	+3.10	+173	+2.7	+0.6	+0.3	+5	—0.3
D. I. Khan	0.98	0.79	+0.19	+25	+1.7	—1.6	+1.0	+6	—0.1
Quetta	0.21	0.89	—0.68	—76	+3.1	—0.6	—0.4	—4	—0.8
Kalat	1.13	1.25	—0.12	—10	+1.0	+1.5	—0.4	+2	—0.3
Karachi Federal Territory	0.08	0.76	—0.68	—90	+1.7	—1.1	+1.2	+5	—0.6
Hyderabad	0.02	0.16	—0.14	—87	+4.3	+0.1	+1.3	+15	—0.5
Khairpur	0.15	0.21	—0.06	—29	+2.1	+1.7	—0.1	—1	+1.1
Mean	1.29	0.92	+0.37	+40	+1.9	+1.0	+0.4	+4	—0.2
Junagadh (x)									

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
EAST PAKISTAN	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Chittagong Division																							
Rangamati	0000	208	1009.6		1017.3	54.8	54.4	54.0	14.3		97		3.5		17	0	0	0	5	0	1	6	2
	0300		1011.5		1019.0	63.3	59.7	57.3	15.9		81		2.7		6	2	4	5	7	0	1	6	0
	1200		1007.5		1014.9	73.8	63.5	55.3	15.4		54		2.4		9	0	0	1	0	3	12	6	0
Cox's Bazar (P.T.)	0300	38	1015.2	—0.1	1016.5	69.2	63.6	59.8	17.5	+0.4	73	0	2.2	+0.8	9	9	8	2	0	0	0	3	0
	1200		1012.5		1013.8	72.1	66.3	62.6	19.4		73		2.8		5	2	1	0	0	0	5	18	0
Chittagong (Patenga)	0000	20	1014.9		1015.6	60.4	58.7	57.2	16.1		90		1.8		3	12	0	1	0	0	0	2	13
	0300		1017.0		1017.7	66.4	61.8	58.3	16.8		75		2.4		5	16	2	0	0	0	0	2	6
	1200		1013.6		1014.3	72.3	65.3	60.7	18.1		67		2.2		0	0	0	0	0	2	9	15	5
Chittagong P.T.	0300	46	1016.3	+0.9	1017.9	69.1	62.9	58.9	16.9	+0.8	69	—8	2.3	+0.9	x								x
	1200		1012.5		1014.1	71.7	64.4	59.7	17.3		65		2.2		x								x
Maijdee Court	0000	25	1015.1		1016.0	57.9	57.1	56.3	15.6		95		0.5		3	0	0	0	1	0	0	0	27
	0300		1016.9	+0.7	1017.8	66.6	62.5	59.6	17.5	+0.8	79	+2	1.3	—0.3	10	1	0	0	0	0	1	4	15
	1200		1013.5		1014.3	71.5	64.4	59.6	17.4		67		0.0		0	0	0	0	2	0	1	0	28
Comilla	0000	29	1014.7		1015.7	57.0	56.1	55.1	15.0		93		(a) 0.9		18	0	0	0	(a) 4	0	0	0	8
	0300		1016.3	+0.2	1017.3	66.1	61.7	58.4	16.8	+0.8	76	+1	0.8	—0.5	2	0	0	0	2	1	0	0	26
	1200		1012.6		1013.6	72.4	64.8	59.7	17.5		66		0.9		1	0	0	0	0	0	1	0	29
Brahmanbaria	0000	32	1014.7		1015.8	58.6	57.5	56.7	15.7		93		1.0		0	0	0	1	0	0	0	0	30
	0300		1016.9		1018.0	65.9	61.1	57.8	16.1	+1.4	76	+6	1.6		2	6	0	2	3	0	2	2	14
	1200		1013.3		1014.4	70.4	64.3	60.1	17.9		70		1.6		0	0	0	0	1	0	0	0	30
Srimangal (R)	0000	69																					
	0300																						
	1200																						
Sylhet (P.B.O.) (R)	0000	115																					
	0300																						
	1200																						
Dacca Division																							
Mymensingh	0000	62	1013.9		1016.2	56.8	55.2	53.7	14.2		90		1.1		0	0	0	0	0	0	2	0	29
	0300		1016.0	+0.5	1018.2	62.8	59.3	56.6	15.7	+0.8	81	0	1.3	—0.6	1	0	0	15	0	0	8	0	7
	1200		1012.1		1014.3	73.0	64.6	58.7	17.0		61		1.3		0	0	0	0	0	0	2	0	29
Narayanganj	0000	26	1014.8		1015.7	58.5	57.0	55.7	15.2		91		0.9		0	0	0	0	0	0	0	0	31
	0300		1017.0	+0.5	1017.9	65.5	60.8	57.6	16.1	+0.7	76	0	2.0	+0.2	3	0	1	2	0	1	2	4	18
	1200		1013.2		1014.1	72.0	63.9	58.2	16.7		62		2.1		0	0	0	0	0	0	2	2	27
Dacca Tejgaon)	0000	32	1014.1		1015.3	55.4	54.4	53.4	14.0		93		2.1		1	0	0	0	2	0	2	10	16
	0300		1016.4		1017.5	64.7	60.2	56.8	15.8		76		2.1		9	0	0	0	0	2	0	4	16
	1200		1012.7		1013.8	70.5	62.0	55.6	15.1		60		2.2		1	0	0	0	2	4	12	8	4

R Register not received. x Data not available (a) Observation for 30 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Dacca Division (contd)	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Faridpur	0000	46	1014.1		1015.8	56.1	55.0	53.8	14.3		92		2.1		2	6	0	1	1	0	0	3	18
	0300		1016.1	+0.7	1017.7	64.2	60.5	57.8	16.3	+1.4	80	+3	2.5	+1.2	6	6	0	0	1	0	0	5	13
	1200		1012.3		1013.9	71.7	64.0	58.4	16.9		63		1.7		4	5	0	0	0	0	0	3	19
Barisal	0000	11	1015.8		1016.2	59.5	57.9	56.3	15.7		91		1.2		4	0	0	0	0	0	0	0	27
	0300		1017.3	+0.3	1017.7	66.3	61.6	57.9	16.6	+0.2	75	—1	2.0	+0.6	5	5	0	0	0	0	0	0	21
	1200		1013.9		1014.3	75.4	65.9	59.0	17.5		58		2.0		0	1	0	0	0	0	0	0	30
Rajshahi Division																							
Khulna	0000	16	1015.2		1015.8	59.1	58.5	58.0	16.5		96		1.5		0	0	0	0	0	0	0	1	30
	0300		1017.5	+0.3	1018.1	67.6	63.6	60.8	18.3	+3.6	79	+12	1.5	—0.1	2	2	0	1	1	0	0	0	25
	1200		1013.8		1014.4	72.3	65.6	61.1	18.5		68		1.3		0	0	0	0	0	0	0	0	31
Satkhira	0000	16	1015.7		1016.3	56.9	55.9	55.9	14.8		94		1.6		1	0	0	0	0	0	0	0	30
	0300		1017.2	+0.2	1017.8	63.1	60.9	59.1	17.3	+2.7	88	+14	1.7	+0.3	1	2	0	0	0	0	0	0	28
	1200		1013.8		1014.4	*	*	*	*		*		2.7		0	0	0	0	0	0	0	0	31
Jessore (P.T.) (R)	0000	26																					
	0300																						
	1200																						
Pabna	0000	48	1014.0		1015.8	55.2	54.2	53.5	13.9		94		1.4		1	0	0	1	0	1	0	10	18
	0300		1016.1		1017.8	63.4	59.6	56.8	15.7	+1.2	79	—3	1.7		2	0	0	5	1	1	3	18	1
	1200		1012.3		1014.0	70.6	63.8	59.3	17.1		68		1.7		0	0	0	1	0	0	1	4	28
Serajganj	0000	51	1013.5		1015.4	56.4	55.3	54.3	14.4		93		1.5		0	0	0	0	0	0	2	0	29
	0300		1016.0		1017.9	64.6	60.0	56.0	15.5		75		1.4		0	0	0	0	0	0	4	6	21
	1200		1012.1		1013.9	69.1	63.2	59.1	17.2		71		1.3		0	0	0	0	0	0	0	0	31
Rajshahi (University) (R)	0000																						
	0300																						
	1200																						
Bogra (P.B.O.)	0000	73	1013.2		1015.6	55.6	54.8	53.9	14.3		95		1.0		2	1	0	0	0	0	0	0	28
	0300		1015.5	+0.2	1017.8	62.7	59.2	56.5	15.6	+1.4	80	0	1.0	—0.8	7	2	3	1	0	0	2	4	12
	1200		1011.8		1014.1	70.8	64.7	60.5	18.2		71		1.2		0	0	1	0	0	1	3	2	24
Dinajpur	0000	123	1011.2		1015.6	53.8	52.3	50.5	12.7		89		0.7		0	0	0	0	0	0	0	0	31
	0300		1013.5	+0.4	1017.9	63.2	57.9	53.5	14.0	+0.5	71	—13	0.7	—0.8	0	0	0	0	0	0	1	0	30
	1200		1009.4		1013.8	71.1	63.1	57.2	16.2		62		0.5		0	0	0	0	0	0	0	0	31
Rangpur	0000	113	1012.1		1016.3	53.8	52.9	51.8	13.3		93		1.1		5	1	0	0	1	1	7	4	12
	0300		1014.0		1018.1	61.1	58.5	56.2	15.6		84		1.0		6	13	1	0	1	1	1	6	2
	1200		1010.1		1014.2	69.8	64.1	60.2	17.9		72		1.2		0	0	0	0	0	0	2	0	29

* Data rejected. (R) Register not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY, 1961.

Division and Station	Hours of observation	Height of bar-cistern above mean sea level	Mean Pressure: Station level reduced to standard temperature and gravity	Departure from normal	Reduced to standard temperature and M.S.L. or geopotential of 850/700 mb. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud Amount: Mean amount	Departure from normal	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
KASHMIR																							
Jammu (x)	0300	1200																					
	1200																						
LAHORE																							
Lahore (P.B.O.)	0000	702	991.9		1017.9	45.3	44.4	43.3	9.5		93		2.3		0	2	1	1	0	0	0	3	24
	0300		993.2	+0.4	1019.1	45.9	44.6	42.9	9.5	+0.9	90	+6	3.1	+0.1	0	0	0	2	0	0	4	3	22
	1200		991.7		1016.7	64.2	54.6	44.6	10.3		50		3.3		0	4	1	0	1	0	4	12	9
" (Cantt.)	0000	709	991.3		1017.5	46.4	45.4	44.3	9.9		92	—	2.0	—	5	2	1	0	0	0	2	12	9
	0300		992.6	—	1018.8	46.2	45.2	43.9	9.8	—	92		2.8		5	3	1	2	1	1	2	6	10
	1200		991.1		1016.2	63.8	56.0	48.4	11.8		59		2.5		3	0	5	1	1	1	2	15	3
" (Walton)	0000	699	991.5		1017.4	45.6	44.2	42.5	9.2		89		1.7		0	3	1	0	0	0	1	6	20
	0300		993.0	—	1018.9	45.3	43.8	42.1	9.0	—	88	—	3.2	—	2	1	3	2	0	0	2	6	15
	1200		991.4		1016.2	64.1	54.6	44.9	10.4		51		3.0		0	3	4	0	1	1	2	15	5
Sialkot	0000	830	(a) 987.2		(b) 1017.6	(b) 47.0	(b) 45.4	(b) 43.0	9.6		87		(b) 1.4		0	0	0	0	0	0	0	0	a 30
	0300		(a) 989.0	+0.6	(a) 1019.2	(a) 51.1	(a) 48.0	(a) 44.3	10.0	+0.9	79	—8	(a) 2.6	0.0	0	3	0	0	0	0	0	1	26
	1200		a 986.6		(a) 1016.2	(a) 62.0	(a) 54.5	(a) 46.4	11.1		59		(a) 2.4		0	3	0	0	0	0	0	2	25
RAWALPINDI																							
Jhelum	0000	767	989.2		1017.5	44.6	43.0	40.8	8.7		87		2.8		0	2	0	1	1	0	0	5	22
	0300		990.7		1019.0	44.7	43.0	40.9	8.7	—	86	—	3.3	—	0	1	0	0	1	1	0	2	26
	1200		989.1		1016.4	63.2	53.5	43.2	9.7		48		3.1		1	1	0	1	1	2	3	10	12
Gharjala	0000	1667	958.5		1019.4	41.1	39.6	37.9	7.6		87		2.9		4	3	1	0	0	0	1	7	15
	0300		959.6		1020.7	40.4	38.9	37.2	7.4	—	87	—	3.6	—	6	2	2	0	0	0	1	7	13
	1200		958.5		1017.5	57.5	48.4	37.7	7.9		48		4.6		1	2	4	2	1	1	18	0	2
Rawalpindi	0000	1675	958.4		1019.5	41.6	40.2	38.1	7.9		89		2.8		6	1	2	1	1	1	4	1	14
	0300		959.2	+0.2	1020.5	41.1	40.0	38.9	7.9	+0.5	90	+8	3.5	+0.3	2	3	2	0	0	1	1	1	21
	1200		958.2		1017.6	56.3	48.7	40.4	8.7		56		3.9		2	2	2	2	2	9	7	1	4
Campbellpur	0300	1175	977.9	—	1021.0	45.4	42.5	38.4	8.0	—	76	—	2.2	—	1	1	0	0	0	0	0	0	29
	1200		976.0		1017.9	39.7	50.3	38.2	8.2		46		2.5		9	2	0	1	0	0	0	1	18
SARGODHA																							
Khushab	0000	616	(e) 995.7		(e) 1018.6	45.1	43.2	40.8	8.6		85		1.5		0	0	7	1	0	0	0	0	23
	0300		996.5	—0.2	1019.3	45.8	43.5	40.1	8.6	+1.6	81	+15	2.0	—0.7	0	0	7	1	0	0	0	0	23
	1200		994.8		1016.8	65.1	54.7	44.1	10.0		47		2.5		1	2	3	1	0	0	1	0	23
Sargodha	0000	617	995.1		1017.9	45.0	44.3	43.6	9.6		96		2.0		3	3	3	1	1	5	2	3	10
	0300		996.4	—	1019.2	44.2	43.4	42.6	9.4	—	92	—	2.0	—	1	1	3	1	0	4	1	2	18
	1200		995.1		1017.0	64.3	55.2	46.4	10.8		53		3.6		3	6	3	2	2	1	6	6	2
Mianwali	0000	681	993.1		1018.2	44.1	42.5	40.6	8.5		88		2.2		1	0	0	0	0	0	0	0	30
	0300		994.7	—	1019.8	44.5	42.9	40.8	8.7	—	88	—	2.5	—	0	0	0	0	0	0	0	0	31
	1200		991.8		1016.0	62.4	53.9	45.3	10.4		54		2.9		0	1	0	0	0	0	0	0	30
Lyallpur	0000	605	995.7		1018.0	45.9	44.3	42.4	9.2		87		1.6		0	1	0	1	0	1	0	0	28
	0300		996.5	—0.1	1019.0	45.3	44.0	42.5	9.2	+0.7	90	+13	2.5	—1.1	3	1	2	0	0	0	1	1	23
	1200		995.2		1016.8	64.3	54.3	43.8	9.9		48		3.4		6	2	0	0	0	1	5	1	9
MULTAN																							
Montgomery	0000	558	(e) 997.9		(e) 1018.1	45.7	44.5	43.1	9.4		90		1.3		0	2	0	3	0	0	2	2	22
	0300		998.4	+0.2	1019.0	48.0	45.9	43.5	9.6	+1.7	84	+7	2.0	—0.4	0	4	1	6	0	3	0	1	16
	1200		996.8		1016.7	65.9	54.8	41.5	9.3		43		1.9		1	4	0	3	3	6	0	2	12

(x) Data not available. (e) Mean for 26 days. (a) Mean for 30 days (b) Mean for 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY, 1961.

Division and Station	Hours of observation	Height of bar cistern above mean sea level	Mean Pressure: Station level reduced to standard temperature and gravity	Mean Pressure: Departure from normal	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud Amount: Mean amount	Departure from normal	Wind Directions Number of Observations From — N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	G.M.T.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Multan (P.B.O.)	0000	404	1002.9		1018.1	46.2	43.8	40.8	8.7		82		1.5		2	0	0	0	1	0	0	1	27
	0300		1004.3		1019.5	45.2	43.1	40.3	8.5		83		2.4		3	0	0	0	0	0	0	0	28
	1200		1002.5		1017.0	66.2	54.2	41.3	9.2		42		3.1		4	3	0	2	3	2	0	1	16
Multan (Surface)	0300	413	1004.0	+0.3	1019.2	49.0	46.0	42.5	9.2	—0.3	78	+4	2.6	+0.2	6	0	1	0	0	0	1	0	23
	1200		1001.6		1016.4	67.2	55.2	42.6	9.5		41		3.1		4	0	1	2	2	0	3	0	19
Leiah (R)	0000	487																					
	0300																						
	1200																						
BAHAWALPUR																							
Khanpur (P.B.O.)	0000	290	(a) 1006.8		(a) 1017.5	(a) 44.5	(a) 42.4	(a) 39.7	8.4		77		(a) 1.5		1	3	0	0	0	2	0	1	(c) 23
	0300		1008.3		1019.0	46.7	43.8	39.9	8.5	—	78	—	1.9	—	5	2	0	0	1	2	0	1	20
	1200		1005.8		1016.2	68.6	54.7	38.8	8.4		37		2.5		6	7	0	0	2	3	0	0	13
Bahawalpur	0300	384	(c) 1003.7	—1.3	(c) 1017.8	47.5	45.6	43.3	9.6	+2.0	85	+12	2.3	—0.3	0	3	1	3	0	1	0	0	23
	1200		1002.1		1015.7	67.7	56.3	44.1	10.3		44		2.6		4	7	2	3	4	1	0	0	10
Fort Abbas	0000	475	*		*	42.7	40.7	37.3	7.7		83		0.2		9	4	1	0	1	1	2	1	12
	0300		1002.1	—	1019.7	47.8	44.9	40.8	8.9	—	77	—	0.7	—	3	1	5	3	3	0	1	0	15
	1200		999.8		1016.8	66.8	56.1	45.7	10.6		48		0.7		9	4	2	0	1	2	2	1	10
PESHAWAR																							
Chakdara	0000	2197	939.8		1019.6	39.6	38.3	36.2	7.4		88		1.8		11	0	5	5	0	0	10	0	0
	0300		940.6	—	1020.2	39.9	38.2	35.1	7.2	—	85	—	1.8	—	6	0	1	2	1	0	10	0	11
	1200		939.2		1016.3	54.5	47.6	39.5	8.5		59		2.2		1	0	1	0	4	0	9	0	16
Peshawar	0000	1177	976.3		1019.4	44.2	41.7	38.0	7.9		80		3.1		0	0	0	4	12	3	0	1	11
	0300		977.4	—0.2	1020.6	43.8	41.3	37.8	7.7	+1.3	80	+9	4.3	—0.3	1	0	1	3	8	8	1	2	7
	1200		976.2		1018.1	59.0	50.2	39.5	8.5		49		4.1		0	1	0	4	4	2	1	3	16
Risalpur	0000	1047	981.0		1019.5	40.2	39.5	38.6	7.9		93		3.2		0	2	0	1	0	1	13	3	11
	0300		981.6	—	1020.0	41.3	40.7	40.1	8.3	—	94	—	3.8	—	2	3	3	1	1	2	6	3	10
	1200		980.3		1017.5	58.5	53.3	48.3	11.5		69		4.1		0	0	3	2	0	8	8	6	4
Haripur	0300	1757	955.5		1019.4	42.7	39.0	33.1	6.6	—	71	—	3.3		0	8	0	1	0	21	0	1	0
	1200		954.8		1016.5	60.1	52.8	46.2	10.8		61		3.2		0	2	3	9	0	13	0	4	0
Kohat	0000	1667	959.5		1019.7	47.5	42.1	34.9	7.0		62		2.6		1	1	0	0	0	0	2	22	5
	0300		960.5	—	1020.8	47.1	41.8	34.5	6.9	—	62	—	3.5	—	3	1	0	1	0	1	1	19	5
	1200		959.4		1018.3	58.9	49.4	39.2	8.3		48		3.6		0	4	3	1	0	1	1	1	20
D. I. KHAN																							
Banau	0000	1263	(a) 972.1		(a) 1018.4	44.5	42.1	38.5	8.0		80		1.7		0	0	0	0	0	0	1	4	26
	0300		973.4	—	1019.7	44.8	42.0	37.7	7.8	+1.7	76	+16	2.3	—0.1	1	0	1	0	2	1	11	6	9
	1200		971.6		1016.3	61.5	53.2	44.1	10.3		54		2.9		0	0	5	10	4	1	0	1	10
D. I. Khan	0000	570	996.5		1017.5	46.1	44.0	41.9	8.9		84		1.5		0	0	0	0	0	0	1	0	30
	0300		958.0	—0.2	1019.2	45.5	43.5	41.1	8.7	+1.7	84	+13	2.5	—0.1	0	0	0	0	0	0	0	0	31
	1200		996.3		1016.6	65.6	56.3	48.9	11.4		53		2.7		1	1	2	0	0	1	0	0	26

(R) Register not received. (a) Mean for 30 days. (*) Data rejected. (c) Mean for 28 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
QUETTA	G.M.T	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	Oktas										
Sibi	0000	441	1001.9		1018.2	49.1	43.4	33.8	7.1		61		1.4		0	0	0	0	0	0	0	3	28
	0300		1003.1	+0.8	1019.4	47.3	42.2	33.8	6.9	+1.4	63	+13	2.3	—0.3	1	0	0	0	0	0	1	1	28
	1200		1000.7		1016.2	71.2	53.5	30.1	6.1		22		2.9		1	0	0	3	5	5	1	2	14
KALAT																							
Nokkundi	0000	2229	939.3		1020.0	43.7	36.3	22.7	4.3		45		0.9		7	1	0	0	0	0	0	15	8
	0300		941.6		1022.2	43.3	37.1	25.7	5.0	—0.5	53	0	1.5	—1.1	4	9	6	0	0	1	1	7	3
	1200		939.4		1016.4	63.8	49.8	32.6	6.6		33		1.6		3	1	4	4	4	3	1	4	7
Turbat	0000	510	998.2		1016.5	55.9	48.7	38.2	8.5		57		1.4		0	1	18	2	0	0	0	0	10
	0300		999.7		1018.1	56.8	48.8	36.6	8.2		52		1.5		0	4	18	4	0	0	0	0	5
	1200		996.7		1014.6	76.5	57.8	34.1	8.0		27		2.0		1	7	2	0	1	3	10	5	2
Jiwani	0000	185	1010.3		1017.3	61.3	55.5	48.2	12.4		67		1.9		6	8	0	0	3	0	2	0	12
	0300		1011.6		1018.3	61.3	54.6	45.5	11.5		63		2.6		5	9	1	0	0	0	1	2	13
	1200		100[illegible].6		1016.1	72.5	60.9	50.1	13.0		49		2.7		1	3	2	6	7	5	7	0	0
Pasni	0000	28	1015.4		1016.4	59.7	55.6	51.5	13.2		76		0.8		7	3	2	0	0	0	5	13	1
	0300		1016.6	—0.6	1017.6	59.1	54.7	50.1	12.7	—0.7	74	—3	2.8	+0.5	7	4	2	0	0	0	4	12	2
	1200		1014.7		1015.7	73.4	64.1	56.5	16.2		58		3.0		2	1	4	7	9	6	2	0	0
KARACHI FEDERAL TERRITORY																							
Ormara	0000	15	1016.0		1016.5	58.3	55.8	53.1	14.1		81		1.8		0	0	1	1	0	0	1	0	28
	0300		1017.0		1017.5	59.1	56.2	53.2	14.2	+1.1	83	+7	2.3	—0.3	0	0	2	0	0	0	1	0	28
	1200		1014.8		1015.3	72.8	64.6	58.2	17.2		61		2.3		0	0	0	6	4	2	11	1	7
Lasbela	0000	292			*	*	*	*	*		*		1·5		*	*	*	*	*	*	*	*	*
	0300				*	*	*	*	*				0.8	—1.4	*	*	*	*	*	*	*	7	*
	1200				*	*	*	*	*		*		1.1		*	*	*	*	*	*	*	*	*
Karachi (Manora)	0000	13	1016.5		1016.0	58.3	52.8	46.3	11.1		66		2.1		5	15	3	0	0	0	0	0	8
	0300		1017.4	0.0	1017.9	60.3	54.5	48.3	11.9	+1.3	66	4	2.1	—0.2	2	18	3	0	0	0	0	0	8
	1200		1014.5		1015.0	73.5	65.3	58.2	17.6		62		2.2		0	4	4	2	1	3	14	3	0
Karachi (Mauripur)	0000	52	1014.5		1016.1	56.7	51.3	44.1	9.7		66		1.0		5	8	2	0	0	0	1	1	14
	0300		1015.8		1017.7	55.8	50.1	42.3	9.8		64		2.0		7	13	0	0	0	0	0	0	11
	1200		1013.3		1015.1	75.0	59.4	42.5	10.3		35		2.3		2	4	3	1	4	8	5	3	1
Karachi (City)	0300	20	1016.8		1017.5	58.0	52.9	47.3	11.4		69		1.5		7	15	5	0	0	1	1	0	2
	1200		1014.1		1014.8	73.1	62.5	53.2	14.5		54		2.2		2	5	4	0	4	7	6	3	0
Karachi (Airport)	0000	73	1013.7		1016.5	55.5	50.3	43.9	10.1		67		1.0		9	6	0	0	0	0	1	2	13
	0300		1015.7		1018.5	54.9	49.5	42.8	9.7		65		2.0		8	5	0	0	0	0	0	0	18
	1200		1012.7		1015.3	75.1	60.6	46.9	11.6		39		2.4		2	7	2	2	4	7	6	1	0
Gadap	0300		—		—	59.4 (d)	53.9 (d)	48.1 (d)	11.7		68		1.7 (d)		14	10	1	0	0	0 (d)	0	2	0
	1200		—		—	75.1 (d)	60.1 (d)	46.5 (d)	11.0		37		1.8 (d)		3	5	1	5	3	4 (d)	3	3	0
HYDERABAD																							
Mithi	0000	96	1012.8		1016.4	46.9	44.2	40.9	8.7		80		0.5		0	0	0	0	0	0	0	0	31
	0300		1014.2		1017.9	48.6	45.4	41.0	8.8		74		0.8		0	0	1	0	0	0	0	0	30
	1200		1011.4		1014.8	78.8	66.1	55.8	16.2		48		1.2		3	11	0	0	0	0	0	7	10
Nagarparkar	0000	176 (Prov.)	1009.1		1015.2	56.1	51.9	47.5	11.3		75		0.2		3	1	0	0	0	0	0	2	25
	0300		1010.4		1016.9	59.3	54.4	47.9	12.2		70		1.1		7	1	0	2	0	0	0	0	21
	1200		1007.6		1013.8	77.2	63.7	51.	14.0		44		0.5		7	5	1	1	0	0	1	3	13

(*) Data rejected. (a) Mean for 30 days. (d) Mean for 27 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Umarkot	0000	55	1013.7		1015.6	49.9	44.1	35.5	7.3		61		0.9		9	12	1	0	0	2	0	1	6
	0300		1015.6		1017.6	49.5	43.9	35.7	7.2		61		2.9		11	9	1	1	0	1	0	0	8
	1200		1012.3		1014.1	76.9	59.5	42.6	9.5		30		2.1		12	5	0	0	0	4	2	7	1
Chhor	0000	19	1015.5		1016.2	46.4	41.6	34.3	6.9		64		1.2		0	3	0	0	0	0	0	0	28
	0300		1017.2		1017.9	49.9	43.3	32.5	6.6		54		2.4		2	5	1	0	0	0	0	0	23
	1200		1014.0		1014.7	76.6	56.1	30.3	6.2		20		2.6		8	6	0	0	0	2	5	3	7
Hyderabad	0000	98	1013.3		1016.9	53.6	47.9	40.7	8.8		63		1.4		20	1	0	1	0	1	0	0	8
	0300		1015.2	+0.5	1018.8	52.9	47.3	39.6	8.6	+0.2	63	+3	2.0	+0.2	19	1	0	0	0	1	0	0	10
	1200		1012.1		1015.5	75.5	57.1	36.6	7.7		26		2.4		13	7	0	0	0	3	2	0	6
Badin	0000	31	1015.7		1016.8	52.0	50.0	47.8	11.4		86		0.3		12	0	0	0	0	10	0	9	0
	0300		1017.8	+1.2	1018.9	50.1	47.9	45.6	10.3	+2.4	84	+26	0.5	—1.3	9	0	0	0	0	13	0	9	0
	1200		1014.9		1016.0	79.1	61.9	47.0	10.2		34		0.0		14	2	0	1	2	3	0	9	0
KHAIRPUR																							
Padidan	0000	153	1011.7		1017.4	46.6	44.0	40.9	8.7		81		1.5		6	3	1	0	0	0	0	4	17
	0300		1013.5		1019.2	44.8	42.6	39.7	8.3		82		2.3		8	4	0	0	1	0	0	6	12
	1200		1010.4		1016.1	71.4	55.5	37.5	7.9		31		1.7		15	3	0	1	3	1	0	3	5
Nawabshah	0000	124	1013.5		1018.2	47.5	43.9	38.4	8.1		74		1.1		1	0	0	0	0	0	0	1	29
	0300		1015.2		1020.0	46.0	42.8	38.3	7.9		75		2.3		3	0	1	0	0	0	0	4	23
	1200		1012.3		1016.7	73.6	55.8	34.5	7.3		26		2.1		12	2	0	1	0	0	1	2	13
Sukkur	0300	221	1010.7	0.0	1018.9	50.1	46.4	41.5	9.1	+1.4	73	+12	3.7	+2.1	3	2	0	4	4	1	1	1	15
	1200		(a) 1008.1		(a) 1016.0	(a) 70.0	(a) 56.7	(a) 42.2	9.5		38		(a) 2.4		9	6	2	0	0	(a) 1	5	1	6
Kashmore	0000	225	*		*	53.4	45.5	34.6	6.9		50		0.4		*	*	*	*	*	*	*	*	*
	0300		*		*	57.1	48.2	36.3	7.5		47		0.8		*	*	*	*	*	*	*	*	*
	1200		*		*	70.5	56.3	41.5	9.1		36		0.6		*	*	*	*	*	*	*	*	*
Jacobabad	0000	183	1010.7		1017.5	50.9	(a) 44.0	(a) 34.1	6.7		57		1.0		4	1	6	3	0	0	2	3	12
	0300		1012.3	+0.4	1019.2	49.1	(a) 43.0	(a) 33.9	6.7	—1.5	55	—15	2.2	+0.1	5	2	1	2	0	0	2	5	14
	1200		1009.9		1016.4	71.6	54.2	31.6	6.6		26		1.9		1	4	2	3	0	3	2	10	6
JUNAGADH																							
Veraval	0000	26	x		x	x	x	x	x		x		x		x	x	x	x	x	x	x	x	x
	0300		(c) 1015.0		(c) 1015.0	(c) 63.3	(c) x	x	x		x		(c) 1.1		16	5	2	0	0	0	0	0	3
	1200		(h) 1011.8		(h) 1012.8	78.5	(f) 66.5	58.5	16.8		51		(h) 0.8		4	3	0	0	1	(h) 3	10	1	1
AFGHANISTAN																							
Jalalabad (R)	0300	1950																					
	0300																						
	1200																						
ARABIA																							
Muscat	0300	20																					
	1200																						
HILL STATIONS KASHMIR																							
Srinagar (x)	0000																						
	0300																						
	1200																						

(R) Register not recieved. (*) Data rejected. (a) Mean for 30 days (f) Mean for 22 days (c) Mean for 26 days. (h) Mean for 23 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Gulmarg (x)	0300																						
	1200																						
Gurez (x)	0300	...																					
	1200																						
Sonamarg (x)	0300																						
	1200																						
Dras (x)	0300	10059																					
	1200																						
Kargil (x)	0300	...																					
	1200																						
Leh (x)	0300	...																					
	1200																						
Skardu (x)	0000	7250																					
	0300																						
	1200																						
Misgar (R)	0000	10190	*		*	*	*	*	—		—		3.8		1	0	2	3	0	0	6	3	16
	0300		702.5		3130.3	12.9	*	*	—	—	—	—	3.7	—	0	0	2	4	1	0	11	7	6
	1200		700.6		3110.4	22.9	*	*	—		—		3.7		0	0	5	3	1	1	5	10	6
Aliabad (x)	0300																						
	1200																						
Gilgit (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	—		—	—	—	—	—		—		—		—	—	—	—	—	—	—	—	—
	0300		784.8	+0.4	1519.9	34.9	30.6	23.2	4.3	—0.4	63	+3	4.4	+0.6	0	2	7	14	0	0	0	5	3
	1200		784.6		1513.4	38.3	34.1	27.8	5.2		65		4.9		0	1	6	9	0	3	0	3	9
PESHAWAR																							
Drosh	0000	4806	857.3		1532.7	36.0	32.6	26.2	5.0		69		3.7		0	2	0	0	0	0	0	0	29
	0300		858.1	+0.2	1540.4	35.4	32.0	25.6	4.8	—0.5	68	—8	4.7	+0.9	0	1	0	1	0	1	0	0	28
	1200		855.8		1519.2	44.9	37.8	25.8	4.9		48		5.4		0	2	4	6	0	2	0	0	16
Chorat	0000	4272	—		—	—	—	—	—		—		—		—	—	—	—	—	—	—	—	—
	0300		(a) 872.0	—0.3	(a) 1509.6	42.6	37.7	29.4	5.8	+1.0	62	+9	2.6	—0.7	21	0	0	0	0	0	0	10	0
	1200		(a) 871.5		(a) 1505.8	46.1	41.2	34.2	6.8		64		2.8		20	0	0	0	0	0	0	11	0
Kakul	0000	4214	873.7		1507.0	41.2	36.6	29.4	5.5		63		3.5		16	6	1	0	2	0	0	6	0
	0300		874.7	...	1515.3	40.6	36.2	28.8	5.6	...	63	...	4.0	...	13	5	7	0	0	1	2	3	0
	1200		874.0		1512.8	49.0	42.7	34.5	6.9		59		4.1		0	0	0	5	10	1	3	12	0
Balakot (R)	0000	3226																					
	0300																						
	1200																						
Landikotal	0000	3503	896.3		1493.5	37.2	34.5	30.1	5.7		75		2.8		0	0	0	0	0	5	0	0	26
	0300		897.3	...	1502.6	37.9	35.0	30.4	5.7	...	75	...	3.4	..	0	0	0	0	0	7	0	0	24
	1200		896.4		1503.5	49.1	41.0	28.7	5.4		47		3.5		0	0	0	2	0	16	0	0	13

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. on geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Parachinar	0000	5673	*		*	*	*	*	—				0.9		3	0	0	8	0	0	0	0	20
	0300		803.5	+2.6	1541.4	33.4	31.3	27.3	5.2	+0.3	81	+12	2.3	—1.0	17	0	0	1	1	0	0	0	12
	1200		*		*	(c) 42.8	(c) 38.2	(c) 31.7	6.1		67		2.6		1	0	0	22	0	0	1	0	7
D. I. KHAN																							
Miranshah	0000	3026	(a) 912.1		(a) 1486.3	37.5	*	*	—		—		0.8		0	0	0	0	0	0	0	0	31
	0300		913.2	—	1500.0	41.4	35.5	24.7	4.7	—0.1	52	—5	2.1	—0.5	0	0	0	0	0	0	0	0	31
	1200		811.8		1504.4	55.9	45.0	29.7	5.9		38		1.9		0	6	0	0	0	0	0	0	25
Wana	0300	4503	*	—	*	(c) 35.1	(c) 33.2	(c) 29.8	5.7	+0.8	80	0	2.4	+0.1	0	0	0	0	0	0	0	0	31
	1200		*		*	52.0	42.6	28.4	5.6		42		3.2		0	0	0	1	0	3	0	0	27
AFGHANISTAN																							
Kabul	0300	5955	(x)	—	x	31.2	30.3	28.5	5.4	+2.2	90	+17	2.8	—0.9	0	5	0	8	1	15	0	2	0
	1200		(x)		x	39.6	37.2	34.5	6.7		81		3.2		0	6	0	17	0	4	0	4	0
Kandahar	0300	3462	899.1	—	1501.7	34.0	31.0	25.9	4.7		71		3.1	—	2	2	1	0	0	0	1	0	25
	1200		896.9		1501.5	55.2	44.7	30.6	5.9		39		3.1		0	2	1	2	0	8	3	0	15
QUETTA																							
Fort Sandeman	0300	4614	863.1	+1.4	1528.0	35.8	31.8	24.0	4.5	—0.5	64	—13	1.8	—1.0	1	2	3	7	5	1	2	1	9
	1200		861.1		1514.1	55.0	41.3	16.4	3.4		24		3.0		7	4	0	1	2	5	8	2	3
" P.B.O.	0000	4615	862.0		1517.9	36.7	32.6	25.0	4.7		64		1.5		0	0	3	5	5	1	5	0	12
	0300		862.9		1526.5	36.4	32.6	25.4	4.8		65		2.5		0	0	0	5	3	4	3	1	15
	1200		861.0		1512.9	53.6	41.9	22.6	4.4		32		3.5		4	6	0	0	1	2	7	6	5
Hindubagh	0000	5909	*		*	28.8	26.1	21.3	3.8		74		0.8		0	0	0	2	0	3	9	2	15
	0300		821.4		1525.3	30.8	28.0	23.1	4.2		74		1.8		0	0	0	0	1	4	16	0	10
	1200		819.8		1499.9	48.1	39.7	28.3	5.3		51		2.7		0	0	6	4	0	7	11	2	1
Loralai	0000	4699	858.0		1506.0	34.2	31.9	26.2	5.2		71		1.1		1	0	0	0	0	1	23	4	2
	0300		858.7		1512.2	34.3	31.4	26.1	4.9		72		2.3		0	0	1	0	0	2	24	3	1
	1200		857.0		1499.6	54.0	42.6	24.8	4.8		34		2.9		0	1	4	13	2	3	2	5	1
Harnai	0300																						
	1200																						
Quetta (Samungli)	0000	5213	843.0		1521.2	30.5	29.6	28.3	5.2		92		2.4		0	0	5	6	1	0	0	0	19
	0300		843.8		1528.5	29.3	28.5	27.4	5.0		92		2.7		0	0	3	7	0	2	1	1	17
	1200		842.3		1511.6	49.8	43.7	34.4	7.5		59		3.0		2	0	0	4	2	2	6	12	3

* Data rejected. (a) Mean for 30 days. (b) Mean for 26 days. x Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY, 1961

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directons Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Quetta (P.T.)	0300	5490	834.1	—0.7	1525.4	36.7	33.1	27.8	5.1	+0.2	70	—8	2.8	—0.7	1	0	1	2	3	0	1	2	21
	1200		832.8		1501.6	48.0	40.3	28.8	5.8		55		3.5		2	1	0	1	5	0	2	10	10
Quetta (P.B.O.)	0000	5560	832.3		1561.6	31.9	28.6	23.0	4.2		70		2.0		0	0	0	0	1	0	0	0	30
	0300		832.9		1565.9	32.0	29.0	24.3	4.4		73		2.5		0	3	1	1	0	1	0	1	25
	1200		832.3		1554.7	49.0	39.6	26.8	5.0		46		3.2		0	8	0	0	0	3	0	3	25
Chaman	0000	4311	870.1		1501.5	39.8	34.3	24.3	4.5		56		0.8		1	3	19	0	0	0	0	0	8
	0300		871.2	—0.4	1512.8	39.6	34.5	25.4	4.7	—1.4	59	—7	1.0	—2.4	0	1	6	1	1	0	0	0	22
	1200		869.0		1497.3	54.4	43.0	24.5	4.9		35		1.3		0	0	0	1	0	16	4	4	6
Nushki	0000	3416	*		*	42.6	35.4	21.9	4.2		46		1.3		0	4	11	0	1	3	0	2	10
	0300		907.6		1575.5	47.1	39.0	26.3	4.8		45		2.1		0	2	10	2	0	0	0	1	16
	1200		906.0		1572.6	59.6	46.9	29.5	5.8		35		2.0		0	3	0	1	0	10	3	11	3
Dalbandin	0000	2785	921.4		1497.8	39.4	35.4	28.6	5.4		66		2.2		1	13	2	2	1	0	1	0	11
	0300		922.6	+1.0	1505.7	37.8	34.1	28.1	5.2	—1.7	69	—4	3.4	+0.4	3	10	2	1	0	3	0	1	11
	1200		920.4		1516.5	61.0	46.9	27.3	5.3		31		3.6		0	3	12	4	2	4	2	2	2
KALAT																							
Kalat	0000	6616	799.8		1527.9	28.6	27.5	25.5	4.6		89		1.5		3	1	1	0	21	0	0	3	2
	0300		800.3	—0.1	1533.8	28.8	27.7	25.7	4.7	+0.3	89	+19	2.1	—0.9	2	1	0	0	18	4	1	3	2
	1200		799.2		1502.9	46.7	41.8	36.0	7.3		69		2.7		9	1	0	0	9	2	2	8	0
Panjgur	0000	3177	908.2		1504.4	43.3	38.8	31.5	6.2		65		2.6		2	23	1	0	0	1	0	1	3
	0300		909.2	+1.3	1512.7	42.3	38.2	30.7	6.2	—0.7	66	—8	2.8	+0.1	3	27	0	0	1	0	0	0	0
	1200		907.4		1515.7	60.7	47.5	27.6	5.9		33		2.5		8	3	0	0	0	10	0	7	3
AFGHANISTAN																							
Kabul	0300	5955	x		x	31.2	30.3	28.5	5.4	+2.2	90	+17	2.8	—0.9	0	5	0	8	1	15	0	2	0
	1200		x		x	39.6	37.2	34.5	6.7		81		3.2		0	6	0	17	0	4	0	4	0
Kandahar	0300	3462	899.1		1501.7	34.0	31.0	25.9	4.7		71		3.1		2	2	1	0	0	0	1	0	25
	1200		896.9		1501.5	55.2	44.7	30.6	5.9		39		3.1		0	2	1	2	0	8	3	0	15

(x) Data not available. (*) Data rejected.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JANUARY, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
CHITTAGONG DIVISION																					
Rangamati	81.6		89	29	54.3		46	15,16	0.07		0.05	2	0		x		0	0	26	0	0
Cox's Bazar (P. T.)	80.0	+0.4	88	3	59.6	+3.4	54	15,16	0.00	—0.14	0.00	0	0	—0.3	x		0	0	0	0	0
Chittagong (Patenga)	79.2		84	27	59.4		53	16	0.04		0.02	4	0		x		0	0	4	0	0
Chittagong P.T.	80.6	+1.8	86	29	58.2	+3.2	52	15,16	0.00	—0.24	0.00	0	0	—0.4	x		0	0	0	0	0
Maijdee Court	78.9	+0.8	86	30	56.7	—0.8	48	15	1.40	0.15	0.30	22	1	+0.5	x	—	0	0	7	0	0
Comilla	79.6	+1.1	86	30	56.8	+3.9	50	15	0.26	—0.06	0.21	2	1	+0.2	x	—	0	0	0	0	0
Brahmanbaria	79.4	+1.0	84	4 days	56.9	+5.4	50	16	0.00	—0.22	0.00	0	0	—0.7	1.5		0	0	0	0	0
Srimangal (R)																					
Sylhet (P.B.O.) (R)																					
DACCA DIVISION																					
Mymensingh	79.7	+3.6	85	30	55.5	+1.9	48	15	0.05	—0.27	0.05	22	0	—0.9	x		1	0	0	0	0
Narayanganj	80.0	+2.1	86	30	57.9	+2.4	51	15	0.30	—0.02	0.30	22	1	+0.2	1.2	+0.1	*	0	5	0	0
Dacca (Tejgaon)	78.6		84	29,30,31	54.2		47	15	0.32		0.29	22	1		2.8		2	0	5	0	0
Faridpur	76.8	+0.9	83	30,31	54.9	+2.4	50	15	0.24	—0.19	0.19	22	1	+0.1	2.5	+1.0	0	0	5	0	0
KHULNA DIVISION																					
Barisal	78.5	+0.7	84	29,30,31	58.1	+2.7	51	15,16	0.30	—0.12	0.16	2	2	+1.3	x		0	0	5	0	0
Khulna	79.4	+0.9	85	29,31	58.5	+3.3	51	11,15	0.10	—0.34	0.10	22	1	+0.2	1.2	—0.5	0	0	2	0	0
Satkhira	79.7	—0.5	85	29,30,31	55.7	+2.9	47	15	0.76	+0.38	0.76	22	1	+0.1	(b) 0.3	—0.7	0	0	5	0	0
Jessore P.T. R																					
RAJSHAHI DIVISION																					
Pabna	78.2	—0.9	85	30,31	54.5	+2.6	49	4 days	0.98	+0.28	0.43	4	2	+1.1	x	—	1	0	6	0	0
Serajganj	79.2		86	4	54.8		47	14	0.17	—0.21	0.17	1	1	+0.2	0.9		0	0	2	0	0
Rajshahi (R)																					
Bogra (P.B.O.)	77.8	+2.0	84	31	54.6	+2.5	45	14	0.95	+0.52	0.82	4	2	+1.0	1.6	+0.7	0	0	4	0	0
Dinajpur	79.8	+4.4	85	29 30	52.9	+3.3	46	13,14	0.33	—0.03	0.33	4	1	+0.1	x		0	0	0	0	0
Rangpur	77.8		84	30	53.3		45	14	0.18	—0.16	0.18	4	1	+0.2	1.3		0	0	1	0	0

R Register not received. (*) Data rejected. (x) Data not available. b Observation for 29 days.

BLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JANUARY, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (Inches)						Wind Velocity (Knots)		Weather Number of Days				
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Visibility Code Figure 93 or less: Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR																					
Jammu (x)																					
LAHORE																					
Lahore (P.B.O.	68.0	0.0	78	21	43.0	+2.9	34	13	3.81	+2.77	2.04	30	2	0.0	1.9	+0.8	3	0	3	0	0
,, (Cantt.)	67.4	—	77	21	43.1	—	35	14	3.95	—	1.51	30	3	—	2.6	—	3	0	6	0	0
,, (Walton)	68.2	—	79	21	42.0	—	33	13	4.18	—	2.53	30	3	—	3.5	—	3	0	5	0	0
Sialkot	(*) 66.2	+0.6	75	4 days	(a) 44.7	+2.5	37	14	3.15	+1.19	1.46	29	4	+1.1	(b) 1.1	+0.2	0	0	0	0	0
RAWALPINDI																					
Jhelum	67.3	—	76	21,22	41.7	—	35	13	4.03	—	2.03	29	5	—	1.7	—	3	1	1	0	0
Chaklala	62.4	—	74	17	37.6	—	31	4 days	5.71	—	2.11	29	6	—	4.5	—	4	1	7	2	0
Rawalpindi	62.8	+0.5	74	18,16,22	38.3	+0.4	31	13,14	4.94	+2.45	1.87	29	6	+2.2	2.5	+0.9	0	0	3	0	0
Campbellpur	62.8	—	70	5 days	39.9	—	31	11,12	3.56	—	1.47	31	4	—	0.6	—	0	0	0	0	0
SARGODHA																					
Khushab	(a) 69.1	+1.4	79	4 days	41.6	+0.9	34	12,13,14	1.10	+0.41	0.48	29	3	+1.5	2.2	0.0	0	0	0	0	0
Sargodha	66.9	—	77	17,18	42.7	—	33	12,14	1.32	—	1.01	29	2	—	(a) 1.9	—	2	2	4	0	0
Mianwali	66.3	—	78	21	41.7	—	32	13	1.61	—	1.01	30	2	—	x	—	0	0	1	0	0
Lyallpur	66.1	—1.0	76	17,21	*	—	—	—	1.43	+1.03	1.43	29	1	0.0	1.7	+0.4	2	0	4	0	0
MULTAN																					
Montgomery	67.9	—0.2	79	21	43.4	+1.7	36	14	1.52	+1.06	1.47	29	1	—0.3	1.5	—0.4	2	0	0	0	0
Multan (P.B.O.)	69.5	—	78	19,23	41.5	—	33	11,12,13	0.47	—	0.20	28,30	2	—	1.7	—	1	0	7	0	0
,, (Surface)	70.0	+2.0	80	23	45.5	+3.5	36	12	0.66	+0.29	0.28	2	3	+1.8	x	—	1	0	2	0	0
Leiah (R)																					
BAHAWALPUR																					
Khanpur (P.B.O.)	72.3	—	82	23	41.3	—	31	11	0.12	—	0.10	3	1	—	1.9	—	1	0	2	0	0
Bahawalpur	70.8	+0.9	84	23	43.7	+3.4	33	12	0.90	+0.74	0.55	2	2	+1.4	1.6	—0.1	0	0	0	0	0
Fort Abbas	68.8	—	83	25	*	—	—	—	0.23	—	0.23	3	1	—	(a) 1.1	—	0	0	0	0	0
PESHAWAR																					
Chakdara	58.0	—	69	21,22	37.5	—	32	12,13,14	4.37	—	1.60	30	5	—	x	—	0	0	0	0	0
Peshawar	63.1	+0.1	73	21	41.2	+0.8	34	11,12,13	3.53	+2.09	1.35	31	7	+4.1	1.7	+0.5	0	0	0	0	0
Risalpur	62.7	—	75	22	36.8	—	29	12	4.50	—	2.28	31	5	—	3.2	—	2	0	5	0	0
Haripur	64.1	—	74	24	37.6	—	30	29	2.98	—	0.89	26	5	—	4.8	—	0	0	0	0	0
Kohat	62.3	—	73	21	44.4	—	39	4 days	4.33	—	1.41	31	4	—	3.9	—	2	1	0	0	0
D. I. KHAN																					
Bannu	65.7	+0.2	74	18,19,21	*	—	—	—	1.46	+0.94	0.70	30	4	+2.8	1.2	—	1	0	0	0	0
D. I. Khan	69.2	+1.2	79	20,22	42.4	+2.1	34	13	0.18	—0.27	0.09	30	0	—1.2	0.4	—0.6	0	0	0	0	0

(x) Data not available. (*) Data rejected. (a) Mean for 30 days. (R) Register not received. (b) Mean for 29 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JANUARY, 1961.

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (Inches)						Wind Velocity (Knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
QUETTA																					
Sibi	73.5	+3.4	83	21	44.5	+2.5	35	12	0.06	—0.38	0.06	25	1	—0.1	*	—	0	0	0	0	0
KALAT																					
Nokkundi	66.8	+3.4	78	22	39.7	+1.4	25	11	0.14	—0.75	0.09	31	0	—2.0	x	—	0	0	0	0	0
Turbat	80.2		88	21	x		—		0.68		0.53	29	2		x		0	0	0	0	0
Jiwani	75.4		83	26	57.9		46	12	0.42		0.26	18	2		4.7		1	0	0	0	0
Pasni	75.4	+0.9	83	20	58.4	+3.7	48	3	0.33	—1.62	0.33	29	1	—1.3	5.5	+0.5	0	0	0	0	0
FEDERAL CAPITAL AREA																					
Ormara	75.8	+2.0	81	25,26	55.2	—1.3	44	12	0.16	—1.39	0.16	29	1	—0.8	1.2	—2.8	0	0	0	0	0
Lasbela	*				*				x			—	—		x	—	0	0	0	0	0
Karachi (Manora)	76.9	+1.4	83	20	56.5	—0.9	50	4,5	0.00	—0.46	0.00		0	—1.0	x	—	0	0	0	0	1
Karachi (Mauripur)	77.3		84	19	53.3		44	12	0.02		0.10	31	1		3.9	—	0	0	0	0	0
Karachi (City)	80.6		89	22	51.5		44	12	0.13		0.10	30	1		2.3	—	0	0	0	0	0
Karachi (Airport)	78.1		86	17,19,22	51.6		43	12	0.68		0.52	30	2		3.1		1	0	0	0	0
Gadap	(c) 77.1		85	17	(d) 51.9		45	3,12,14	(d) 0.00		0.00	0	—		(e) 3.8		0	0	0	0	0
HYDERABAD																					
Mithi	83.8		97	31	42.8		33	11	0.00		0.00	0	—		1.2		0	0	0	0	0
Nagarparkar	80.1		90	18	52.6		45	11,12	0.00		0.00		0		x		0	0	0	0	0
Umarkot	79.0		90	25	45.3		36	11,12	0.00		0.00	—	0		3.5		0	0	0	0	0
Chhor	79.8		90	22,24	43.0		30	11	0.00		Tr	31	0		1.7		0	0	0	0	0
Hyderabad	78.7	+2.9	89	4 days	51.0	+0.4	43	13,14	0.04	—0.13	0.04	17	0	—0.5	2.7	—0.9	0	0	1	0	0
Badin	81.9	+5.6	93	2,3	46.9	—0.3	39	4,11,12	0.00	—0.15	Tr	17		—0.4	x	—	0	0	0	0	0
KHAIRPUR																					
Padidan	73.8		83	4 days	41.4		31	11	0.38		0.38	31	1		3.1		0	0	1	0	0
Nawabshah	75.3		85	21	44.5		31	11	0.02		0.02	17	0		1.2		1	0	0	0	0
Sukkur	74.3	+2.0	85	21	46.5	+1.5	37	11	0.20	+0.02	0.20	30	1	+0.6	1.8	—0.6	0	0	0	1	0
Kashmore	74.4		83	5	46.8		37	13	0.00		0.00	—	0		x		0	0	0	0	0
Jacobabad	73.6	+2.2	87	20	46.7	+1.8	38	11	0.10	—0.13	0.10	30	1	+0.3	2.5	—0.1	0	0	0	0	0
JUNAGADH																					
Veraval	x				58.3		x	—	0.00		0.00	—	0	—	x		0	0	0	0	0
AFGHANISTAN																					
Jalalabad (R)																					
ARABIA																					
Muscat (R)																					
HILL STATIONS																					
KASHMIR																					
Srinagar (x)																					
Gulmarg (x)																					
Gurez (x)																					
Sonamarg (x)																					
Dras (x)																					
Kargil (x)																					
Leh (x)																					
Skardu (x)																					

(R) Register not received. (x) Data not available. (*) Data rejected. (c) Mean for 26 days. (d) Mean for 27 days. (e) Mean for 21 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JANUARY, 1961

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
	Mean.	Departure from normal.	Highest.	Date	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Visibility Code Figure 93 or less: Fog.	Visibility Code Figure 93 or less: Haze (dust).	Visibility Code Figure 93 or less: Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR—(*Continued*)																					
Misgar	31.0	—	40	21	10.1	—	0	14,15	0.97	—	0.78	30	1	—	1.0	—	0	0	0	0	0
Allabad (x)																					
Gilgit (x)																					
RAWALPINDI																					
Murree	43.8	—1.4	57	16	30.3	—0.4	22	10,11	5.95	+2.16	1.66	29	7	+0.9	7.9	+2.9	1	0	6	0	0
PESHAWAR																					
Drosh	50.0	+4.3	61	23	33.5	+2.1	28	11,12	3.21	+1.84	0.87	31	6	+2.6	2.4 (e)	—0.1	0	0	0	0	0
Cherat	52.8	+3.6	61	23	37.0	—1.9	31	10,11,31	8.08	+5.75	1.96	31	8	+4.5	5.2	—3.8	0	0	0	0	0
Kakul	55.8	—	65	4 days	38.2	—	32	10,11,31	4.81	—	1.75	29	7	—	x	—	2	0	1	0	0
Balakot (R)																					
Landikotal	52.4	—	64	21	34.3	—	22	11	3.15	—	0.98	30	6	—	x	—	0	0	1	0	0
Parachinar	*	—	—	—	30.1	+1.5	21	10,11	4.74	+2.71	1.50	10,26	6	+1.4	1.8	+0.1	0	0	0	0	0
D. I. KHAN																					
Miranshah	59.9	+3.2	71	21	36.3	+0.6	28	27	1.04	+0.24	0.70	2	2	+0.1	1.3	—2.3	0	0	0	0	0
Wana	55.4	+2.1	65	4 days	28.8	+2.0	8	6	1.23	—0.16	0.50	26	5	+2.0	0.7	—	0	0	0	0	0
QUETTA																					
Fortsandeman	57.7	+3.0	68	5,24	33.7	+3.1	25	12,13	0.15	—0.57	0.11	25	1	—1.1	x	—	0	0	0	0	0
„ (P.B.O.)	56.2		67	15,24	33.5		24	13	0.11		0.08	25	0	—	2.7	—	0	0	0	0	0
Hindubagh	50.1		63	21,22	25.8		16	12	1.06		0.75	29	3		5.0		0	0	0	0	0
Loralai	57.5		67	20,21,22	31.6		25	13	0.04	—0.72	0.04	25	0	—1.9	3.9		0	0	0	0	0
Harnai									0.35	—0.54	0.35	25	1	—1.0	x		0	0	0	0	0
Quetta (Samungli)	52.3		67	22	26.1		13	11	0.75		0.26	29	4		3.6		1	3	2	0	0
Quetta (P.T.)	51.2		63	20,23,25	27.6		16	11,12	0.74		0.26	29	3		2.9	+0.7	0	0	0	0	0
Quetta (P.B.O.)	53.3		67	24	28.8		17	11,12	0.71		0.27	29	2		2.3		0	1	1	0	0
Chaman	56.5	+4.1	71	23	28.0	—6.5	16	26	0.37	—1.27	0.25	30	1	—3.4	x		1	0	0	0	0
Nushki	62.3		76	24	41.4		29	11	0.27		0.20	31	1		x		0	0	0	0	0
Dalbandin	63.4	+1.9	80	24	33.9	—1.4	22	11	0.27	—0.61	0.12	30	1	—1.1	2.6	—0.2	1	0	0	0	0
KALAT																					
Kalat	50.4	+0.9	65	21	25.2	—0.7	08	11	3.57	+2.26	1.04	28 30	5	+1.5	x		0	0	0	0	0
Panjgur	61.8	—1.1	74	22	40.0	+1.4	29	12	0.49	—0.34	0.33	29	1	—0.9	x		1	0	0	0	0
AFGHANISTAN																					
Kabul	42.2	+5.0	56	21	26.3	+7.1	18	13	1.07	—0.22	0.49	24	4	+0.9	x	—	0	0	0	0	0
Kandahar	57.3	—	72	24	30.6	—	21	10,11	0.27	—	0.17	25	1	—	1.1	—	0	0	0	0	0

(*) Data rejected. (R) Register not received. (x) Data not available. (e) Mean for 26 days.

REGD. No. S. - 1452

PAKISTAN WEATHER REVIEW, 1961

MONTHLY WEATHER REPORT

February

(PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN)

Chief Features:

(1) A spell of wet weather passed over the country during the first week.

(2) A cold wave affected West Pakistan towards the end of the first week.

East Pakistan

Scattered rain fell in Rajshahi division on the 1st due to the passage of a westerly low pressure wave. Thereafter two western disturbances caused widespread rain or thundershowers in Dacca and Rajshahi divisions on the 3rd; local or scattered in Chittagong division on the 2nd, 3rd and 4th; local in Khulna division on the 3rd and in Rajshahi division on the 2nd. These were closely followed by two more westerly low pressure waves which were responsible for the occurrence of widespread rain or thundershowers in Khulna and Dacca divisions on the 6th and the 8th and local or scattered elsewhere in the province during this period, except for Dacca division where no rain fell on the 7th. Again at the end of the second week two westerly low pressure waves caused scattered rain in Khulna division on the 13th and the 14th. The weather remained dry, thereafter, Barisal recorded 1-1/2" rain on the 3rd and Pabna and Dacca 1" each on the 6th.

The total rainfall during the month was in moderate defect in Chittagong division, in moderate excess in Dacca division and in large excess elsewhere. Averaged over the region as a whole it was in moderate excess.

The mean maximum temperature was below normal while the mean minimum temperature was normal over the whole region.

The mean relative humidity was normal everywhere. The mean cloud amount was in excess in Chittagong and Dacca division and normal elsewhere.

West Pakistan

The passage of four secondary western disturbances and two westerly low pressure waves in quick succession during the first week resulted in persistence of marked rainfall activity which had commenced at the end of the previous month. Widespread rain or thundershowers with snowfalls in the hills were reported from Rawalpindi, Lahore and Sargodha divisions on the 2nd and the 7th and fairly widespread from Peshawar division on the first four days, from Multan division on the 2nd and the 4th and from Quetta and Kalat divisions only on the 4th. Scattered or local rain also fell in most parts of the region during the week except for the 5th, 6th and 7th when it was restricted only to the northern divisions. The weather activity decreased thereafter and a secondary western disturbance preceded by a westerly low pressure wave caused local rain or snow in Quetta division on the 10th and the 11th, scattered in Kalat division on the 11th and in Peshawar division on the 12th. Scattered rain also fell in Karachi Federal Territory on the 10th. These western disturbances affected the province in the third week. They caused fairly widespread rain in Peshawar division on the 17th and the 19th, local rain in Lahore and Quetta divisions on the 17th and in Quetta and Rawalpindi divisions on the 19th. Scattered rain also fell in D. I. Khan division on 17th and the 19th and in Sargodha division on the 19th. A few falls of snow during these days were also reported over the hills. The weather remained dry in the Province thereafter, except for some scattered falls in Quetta and Peshawar divisions on the 23rd under the influence of a wave of low pressure from the west.

Chief amounts of rainfall recorded during the month were:—Kalat 2"; Cherat and Sibi 1" each on the 1st; Parachinar and Harnai 2" each, Sialkot 1-1/2" and Bahawalpur 1" on the 2nd; Kalat 1" on the 3rd; Parachinar and Kalat 2" each, Karachi Airport and Pasni 1-1/2" each and Wana and Ormara 1" each on the 4th; Parachinar 1-1/2" on the 5th and Drosh and Parachinar 1-1/2" each on the 17th.

A cold wave affected the region towards the end of the first week when the night temperatures on the whole became considerably below normal on the 8th and markedly so in most parts of the region on the 6th and the 7th.

The total rainfall during the month was in large defect in Multan, D. I. Khan divisions and in the Karachi Federal Territory, in slight defect in Rawalpindi, Bahawalpur and Khairpur divisions and normal in Lahore division. It was in slight excess in Quetta division, in moderate excess in Sargodha division and in large excess elsewhere. Averaged over the region as a whole, it was in slight excess.

The mean maximum temperature was below normal over the region outside Peshawar, Hyderabad and the Karachi Federal Territory, where it was normal. The mean minimum temperature was normal in Lahore, Multan and Bahawalpur divisions and below normal over rest of the region.

The mean relative humidity was in defect in D. I. Khan division, normal in Lahore, Multan, Quetta, Kalat and the Karachi Federal Territory and in excess elsewhere.

The mean cloud amount was normal in Rawalpindi, Multan, Bahawalpur, Quetta and Khairpur divisions and in defect elsewhere.

Table I contains the divisional means of rainfall, temperature, relative humidity and the cloud amount for the 16 divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

(Sd.) JALIL TAHIR,
for *Director,*
Meteorological Service.

TABLE I—DIVISIONAL MEANS FOR FEBRUARY 1961.

Division	PRECIPITATION				DEPARTURE FROM NORMAL OF				
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	0300 hrs. G. M. T. Vapour pressure	0300 hrs. G. M. T. Relative humidity	0300 hrs. G. M. T. Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb	%	
EAST PAKISTAN									
Chittagong	0.67	1.05	—0.38	—36	—2.7	—0.8	—1.5	—3	+0.6
Dacca	1.40	1.10	+0.30	+27	—2.7	—1.3	—1.2	—2	+0.6
Khulna	1.70	1.05	+0.65	+62	—3.6	—0.8	—0.9	+1	+0.1
Rajshahi	1.54	0.76	+0.78	+103	—3.8	—0.3	—1.3	—5	+0.1
Mean	1.28	0.99	+0.29	+29	—3.2	—0.8	—1.2	—2	+0.4
WEST PAKISTAN									
Kashmir (x)									
Lahore	1.35	1.32	+0.03	+2	—3.9	—0.1	—0.7	—1	—0.8
Rawalpindi	2.89	3.39	—0.50	—15	—4.8	—4.3	—0.8	+7	—0.3
Sargodha	1.11	0.75	+0.36	+48	—4.0	—4.2	—0.1	+9	—1.3
Multan	0.15	0.44	—0.29	—66	—3.7	—0.6	—1.1	—1	—0.1
Bahawalpur	0.21	0.26	—0.05	—19	—3.4	—0.2	+0.3	+10	—0.5
Peshawar	3.94	2.23	+1.71	+77	—1.5	—3.8	—0.2	+6	—1.0
D. I. Khan	0.39	1.22	—0.83	—68	—4.1	—3.1	—0.7	—7	—0.9
Quetta	1.35	1.17	+0.18	+15	—2.1	—2.7	—1.3	—4	—0.2
Kalat	1.92	1.04	+0.88	+85	—2.7	—2.4	—1.0	+4	—0.5
Karachi Federal Territory	0.72	1.27	—0.55	—57	—0.2	—2.2	+1.2	0	—0.8
Hyderabad	0.37	0.31	+0.06	+19	—0.1	—2.3	—0.1	+10	—0.5
Khairpur	0.25	0.31	—0.06	—19	—3.5	—2.9	—0.9	+7	+0.1
Mean	1.25	1.04	+0.21	+20	—2.5	—2.6	—0.7	+5	—0.5
Junagadh (x)									

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Direction Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
CHITTAGONG DIVISION																							
Rangamati	0000	208	1005.6		1013.2	55.1	54.3	53.4	14.1		95		3.0		8	1	1	2	3	1	2	6	4
	0300		1007.6		1015.1	65.3	59.9	55.3	15.2		72		2.2		8	2	2	0	9	1	0	6	0
	1100		1003.8		1011.1	74.4	62.0	58.8	13.4		47		2.5		4	0	0	0	1	8	5	6	4
Cox's Bazar (P.T.)	0300	38	1012.1	—1.5	1013.4	71.3	64.0	58.5	17.0	—1.4	65	—4	2.2	+0.7	8	5	6	5	2	1	0	1	0
	1200		1008.8		1010.1	73.4	66.1	61.1	18.6		66		2.6		6	1	0	0	1	6	6	8	0
Chittagong (Patenga)	0000	20	1011.1		1011.8	60.3	58.1	56.2	15.6		87		2.0		7	6	2	1	0	1	0	0	11
	0300		1013.2		1013.9	68.3	62.4	57.7	16.6		70		2.5		6	9	2	3	1	0	1	1	5
	1200		1009.7		1010.4	72.8	65.4	60.1	18.0		66		2.7		2	3	0	0	2	8	6	6	1
Chittagong (P.T.)	0300	46	1012.5	—1.5	1014.1	69.9	62.4	56.6	15.8	—1.5	65	—6	2.5	+0.7	(x)								(x)
	1200		1009.1		1010.7	72.4	63.6	56.9	16.1		60		3.0		(x)								(x)
Maijdi Court	0000	25	1011.3		1012.2	58.3	56.7	55.3	15.0		91		0.3		1	2	0	1	0	0	1	1	22
	0300		1013.0	—1.5	1013.9	67.7	61.6	57.0	16.0	—2.7	70	—3	2.4	+0.2	4	3	0	0	1	0	2	6	12
	1200		1009.6		1010.5	71.4	64.3	59.4	17.4		67		2.4		2	2	0	2	2	0	2	4	14
Comilla	0000	29	1010.6		1011.6	58.2	56.7	56.1	15.1		93		2.2		7	2	0	1	4	0	0	2	12
	0300		1012.4	—2.1	1013.4	67.2	61.4	56.9	15.9	—1.8	71	0	2.5	+0.3	7	2	0	0	3	0	0	0	16
	1200		1008.9		1009.9	73.7	62.6	54.0	14.4		53		2.1		3	0	0	0	1	0	0	1	23
Brahmanbaria	0000	32	1010.9		1012.0	55.9	56.2	54.8	14.7		90		2.6		5	0	0	1	6	1	0	0	15
	0300		1013.0		1014.1	65.9	60.2	55.7	15.2	—0.7	71	+4	2.6		2	5	1	2	6	3	1	5	3
	1200		1009.1		1010.2	71.7	61.5	53.5	14.1		55		2.6		4	0	1	1	0	3	5	0	14
Srimangal	0000	69	1008.6		1011.4	2.7	51.5	50.6	12.4		92		2.0		0	1	0	0	0	0	1	0	27
	0300		1011.0	—2.0	1013.7	66.2	59.9	54.7	14.8	—0.8	69	—8	3.1	+1.0	1	1	0	3	0	1	4	1	17
	1200		1007.0		1009.7	70.7	61.0	52.8	14.3		57		2.9		0	0	0	2	1	0	6	2	17
Sylhet (P.B.O.) (x)	0000	115																					
	0300																						
	1200																						
DACCA DIVISION																							
Mymensingh	0000	62	1010.1		1012.4	56.4	54.8	53.3	13.9		89		2.6		0	0	0	1	0	0	5	0	22
	0300		1012.0	—1.4	1014.2	62.6	58.6	55.3	15.1	—0.4	78	+4	2.9	+0.6	0	0	0	10	0	0	12	0	6
	1200		1008.2		1010.3	72.7	63.7	57.8	16.1		60		2.3		0	0	0	1	0	0	7	0	20
Narayanganj	0000	26	1011.0		1011.9	58.8	56.3	54.3	14.4		85		2.3		0	0	1	0	2	1	2	4	18
	0300		1012.9	—1.5	1013.8	67.0	60.1	54.6	14.6	—2.1	66	—5	2.7	+0.2	1	2	4	0	1	1	5	5	9
	1200		1009.0		1009.9	72.9	62.4	54.4	14.5		54		2.7		0	1	1	0	0	1	3	4	18
Dacca (Tejgaon)	0000	32	1010.1		1011.3	57.1	55.3	53.5	14.1		88		2.9		9	0	0	1	2	6	0	1	9
	0300		1012.3		1013.5	66.0	59.2	53.4	14.1		66		2.7		5	0	1	2	0	7	2	3	8
	1200		1008.8		1009.9	71.1	60.9	52.2	13.6		54		2.8		2	0	0	1	1	3	8	9	4

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
DACCA DIVISION (contd.)																							
Faridpur	0000	46	1009.8		1011.4	56.9	55.1	53.1	14.0		87		3.1		2	6	0	1	3	1	1	1	13
	0300		1012.2	—1.3	1013.8	66.5	60.3	55.6	15.1	—1.2	68	—6	3.0	+1.0	7	3	0	1	2	1	2	6	6
	1200		1008.3		1009.9	71.7	62.3	54.5	14.9		58		2.5		3	4	0	0	1	0	0	2	18
KHULNA																							
Barisal	0000	11	1012.0		1012.4	60.0	57.7	55.7	15.2		87		2.3		3	1	0	0	0	0	1	0	23
	0300		1013.6	—1.1	1014.0	67.9	61.3	55.8	15.5	—3.0	68	—5	2.2	+0.1	8	4	0	1	0	0	0	0	15
	1200		1010.0		1010.4	75.6	64.9	57.0	16.2		55		2.3		2	3	0	0	0	0	0	0	23
Khulna	0000	16	1011.3		1011.9	59.9	58.8	57.9	16.4		93		2.2		2	1	0	0	0	0	1	0	25
	0300		1013.5	—1.3	1014.1	68.9	62.9	58.4	16.9	+2.4	71	+5	2.4	—0.1	2	2	1	0	0	0	0	0	23
	1200		1009.7		1010.3	74.1	65.0	58.9	17.0		61		2.5		0	1	0	0	0	0	0	0	27
Satkhira	0000	16	1012.2		1012.8	58.1	56.9	55.7	12.5		92		2.7		1	0	0	0	0	1	0	0	26
	0300		1013.5	—1.1	1014.1	67.0	62.2	58.3	16.9	—0.2	76	+2	2.5	+0.1	2	4	0	0	0	1	0	1	20
	1200		1010.0		1010.6	*	*	*	*		*		2.5		1	2	0	0	0	0	0	0	25
Jessore (P.T.)	0000	26	1010.9		1011.9	56.2	54.9	53.6	14.2		91		2.6		0	0	0	0	0	1	0	0	27
	0300		1012.8	—1.8	1013.7	65.9	60.6	56.5	15.6	—0.8	74	+3	2.3	+0.1	2	1	0	1	2	7	2	0	13
	1200		1009.7		1010.7	73.8	64.2	57.1	16.2		59		2.0		1	0	0	0	1	0	1	0	25
RAJSHAHI																							
Pabna	0000	48	1009.9		1011.7	56.0	54.7	53.3	14.0		91		2.3		2	1	1	1	0	2	1	2	18
	0300		1012.0		1013.7	64.7	59.1	54.5	14.6	—1.3	71	+1	2.5	--	2	1	1	0	2	4	4	13	1
	1200		1008.0		1009.7	71.1	62.8	56.6	15.5		60		1.8		1	1	1	0	0	5	2	3	15
Serajganj	0000	51	1009.7		1011.6	56.4	54.2	52.3	13.3		86		2.5		0	0	0	0	2	4	1	0	21
	0300		1011.9		1013.7	65.6	59.1	53.6	14.2		67		2.6		0	1	0	0	1	5	1	2	18
	1200		1007.8		1009.6	69.7	62.3	57.0	15.8		66		1.9		0	0	0	0	0	2	0	0	26
Rajshahi (R)	0000	73																					
	0300																						
	1200																						
Bogra (P.B.O.)	0000	65	1009.0		1011.4	55.5	53.7	51.9	13.3		88		2.2		1	2	0	0	2	1	2	0	20
	0300		1011.2	—1.7	1013.5	64.0	57.8	52.1	13.6	—1.1	67	—5	2.2	+0.3	2	3	4	2	0	2	6	1	8
	1200		1007.5		1009.7	71.3	61.0	52.1	13.7		55		0.2		2	1	0	0	0	0	15	1	9
Dinajpur	0000	123	1006.8		1011.3	54.2	52.4	50.3	12.6		87		2.2		x	x	x	x	x	x	x	x	x
	0300		1008.9	—1.9	1013.3	63.8	56.8	50.3	12.6	—1.4	62	—11	1.8	—0.1	x	x	x	x	x	x	x	x	x
	1200		1004.9		1009.3	71.5	61.1	52.7	13.7		54		1.3		x	x	x	x	x	x	x	x	x
Rangpur	0000	113	1007.9		1012.1	54.0	52.3	50.6	12.6		89		2.4		5	3	0	2	2	1	8	1	6
	0300		1009.9		1014.0	61.9	57.7	54.1	14.5		76		1.5		4	8	3	3	1	3	3	2	1
	1200		1005.9		1009.9	69.8	62.0	56.3	15.5		63		1.9		1	0	0	1	1	8	3	1	13

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
KASHMIR																							
Jammu (x)	0300	1200																					
	1200																						
LAHORE																							
Lahore (P.B.O.)	0000	702	988.6		1014.4	47.1	45.4	43.7	9.5		87		1.5		1	0	1	1	0	0	1	8	16
	0300		989.9	—0.8	1015.7	48.7	46.2	43.2	9.6	—0.1	82	+7	2.4	—0.7	1	4	1	0	0	1	2	4	15
	1200		988.0		1012.9	64.7	53.3	40.6	8.8		43		3.1		3	3	0	0	0	1	1	14	6
,, (Cantt.)	0000	709	987.9		1013.6	48.3	47.1	45.7	10.4		91		2.0		5	2	0	0	0	0	3	8	10
	0300		989.3	—	1014.9	50.0	47.8	45.4	10.3	—	85	—	2.3	—	5	2	1	1	0	1	3	9	6
	1200		987.5		1012.4	64.2	56.6	49.6	12.2		60		3.3		5	4	2	0	2	0	0	15	0
,, (Walton)	0000	699	988.2		1013.8	47.2	45.6	44.1	9.7		88		1.9		2	0	2	0	0	0	2	11	11
	0300		989.7	—	1015.3	48.5	46.6	44.4	10.0	—	86	—	2.2	—	1	1	1	1	0	0	2	12	10
	1200		987.7		1012.5	64.9	54.8	44.7	10.2		49		3.3		1	3	0	2	0	0	2	18	2
Sialkot	0000	830	(g) 983.8		(g) 1014.2	(g) 47.7	(g) 45.3	(g) 42.6	9.3		82		(g) 1.5		0	0	0	0	0	0	0	0	(h) 23
	0300		985.0	—1.2	1015.2	50.6	47.0	43.4	9.4	—1.2	75	—8	1.7	—0.9	0	1	0	2	0	1	0	1	(d) 22
	1200		982.6		1012.1	62.9	53.9	45.3	10.3		52		2.7		0	3	0	0	0	2	0	3	(f) 17
RAWALPINDI																							
Jhelum	0000	767	985.8		1013.9	46.3	43.9	40.6	8.7		81		2.3		1	1	0	0	3	0	2	9	12
	0300		987.4	—	1015.5	47.3	44.3	40.5	8.6	—	77	—	2.8	—	0	0	0	0	1	1	3	10	13
	1200		985.5		1012.6	64.1	52.3	38.6	8.1		39		3.4		3	0	0	1	0	1	5	15	3
Chaklala	0000	1667	955.3		1016.1	41.0	39.8	38.6	7.8		89		2.6		3	9	0	0	0	0	3	5	8
	0300		956.6	—	1017.3	41.6	40.0	38.1	7.8	—	87	—	3.5	—	2	4	2	1	0	1	1	3	14
	1200		955.0		1013.6	59.2	48.4	35.7	7.3		42		3.6		1	2	2	0	1	1	17	3	1
Rawalpindi	0000	1675	954.9		1015.9	41.7	40.4	39.0	8.0		93		2.2		2	1	0	0	0	1	2	1	21
	0300		956.0	—1.2	1016.9	42.7	41.2	39.0	8.2	—0.3	88	+10	3.1	—0.2	3	2	0	1	0	2	2	1	17
	1200		954.6		1013.7	58.0	48.6	38.4	7.9		48		3.6		2	0	1	1	1	4	13	5	1
Campbellpur	0300	1175	974.4	—	1017.3	45.8	42.6	38.0	7.8	—	75		1.6	—	1	1	2	0	0	0	0	0	24
	1200		972.7		1014.3	61.2	50.1	36.0	7.4		39		1.4		9	2	0	1	0	0	0	4	12
SARGODHA																							
Khushab	0000	616	(f) 992.1		(f) 1014.8	47.5	44.9	42.0	9.0		80		2.0		1	2	14	0	0	0	0	0	11
	0300		993.2	—1.3	1015.8	48.3	44.7	40.2	8.4	+0.1	74	+9	1.7	—1.3	1	2	7	0	0	1	2	0	15
	1200		991.7		1013.6	65.6	53.4	39.7	8.5		40		2.8		3	1	5	0	1	1	4	1	12
Sargodha	0000	617	992.0		1014.7	45.3	43.9	42.2	9.2		89		2.3		2	2	3	0	0	1	3	4	13
	0300		993.3	—	1016.1	46.7	44.6	42.3	9.2	—	85	—	3.0	—	2	3	1	0	2	1	9	1	9
	1200		991.8		1013.6	65.2	53.2	40.4	9.0		42		3.9		4	5	2	2	0	1	8	5	1
Mianwali	0000	679	990.1		1015.2	44.9	44.0	42.9	9.4		92		1.9		0	1	0	0	0	0	0	0	27
	0300		991.9	—	1016.9	46.9	44.8	42.4	9.2	—	85	—	2.4	—	0	0	2	0	0	0	0	0	26
	1200		988.4		1012.6	63.4	52.2	40.3	8.4		42		2.5		0	2	0	0	0	0	0	1	25
Lyallpur	0000	605	992.4		1014.7	46.8	44.6	41.7	9.0		83		1.5		0	0	0	0	0	0	1	2	25
	0300		993.3	—0.6	1015.7	46.1	44.1	41.4	8.9	—0.4	84	+9	2.5	—1.3	1	4	2	1	0	5	6	3	6
	1200		991.7		1013.2	65.8	54.3	42.1	9.3		43		2.8		4	0	1	1	1	3	6	8	4
MULTAN																							
Montgomery	0000	558	(g) 993.8		(g) 1014.3	47.5	45.6	43.6	9.6		85		1.3		0	4	0	1	0	1	1	1	20
	0300		995.2	—0.8	1015.6	49.8	46.8	43.3	9.5	—0.5	78	0	2.5	+0.1	1	2	0	0	0	2	1	2	20
	1200		993.4		1013.2	66.7	53.5	38.8	8.0		37		1.7		1	6	0	1	0	5	2	8	5
Multan (P.B.O.)	0000	404	999.8		1014.8	(d) 48.0	(d) 44.4	(d) 39.6	8.3		73		1.4		3	2	2	2	2	0	0	0	17
	0300		1001.2		1016.2	(d) 48.5	(d) 44.7	(d) 39.6	8.4	...	72	...	2.4	...	7	0	0	2	0	1	0	0	18
	1200		998.9		1013.0	(d) 68.1	(d) 53.2	(d) 35.2	7.2		31		3.1		4	3	1	6	4	0	1	1	18

(f) Mean for 25 days. (x) Data not available. (g) Mean for 24 days. (h) Mean for 23 days. (d) Mean for 27 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Cpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
MULTAN—contd.																							
Multan	0300	413	1000.9	—0.4	1016.0	51.2	46.8	40.9	9.0	—1.7	69	—1	2.3	—0.2	5	0	0	0	1	2	4	1	15
	1200		998.3		1013.0	67.8	53.9	38.6	8.0		35		3.2		4	0	0	0	3	0	5	0	16
Leiah (R)	0000	487																					
	0300																						
	1200																						
BAHAWALPUR																							
Khanpur (P.B.O.)	0000	290	1003.2		1014.0	46.4	43.1	38.1	8.0		75		1.1		1	5	0	1	0	1	0	0	20
	0300		1005.0	—	1015.7	49.7	44.9	38.7	8.0	—	66	—	1.6	—	3	6	0	0	1	2	1	1	14
	1200		(d) 1001.8		(d) 1012.3	71.6	54.8	35.4	7.2		27		2.1		4	9	1	0	1	4	2	0	7
Bahawalpur	0300	384	1001.1	—0.6	(d) 1015.2	51.1	47.8	42.7	9.9	+0.3	77	+10	2.1	—0.5	4	4	4	1	5	2	0	0	8
	1200		998.5		1012.0	70.7	(f) 57.9	45.9	10.7		42		3.3		2	3	1	1	2	2	1	2	14
Fort Abbas	0000	475	996.9		1014.4	46.5	43.3	38.1	8.1		73		0.7		12	4	1	1	0	3	1	3	3
	0300		998.9	—	1016.2	50.9	46.4	41.1	8.8	—	68	—	0.7	—	1	2	3	4	1	1	0	0	16
	1200		996.1		1012.7	69.7	56.1	42.7	9.3		38		1.1		11	3	2	1	0	3	1	3	4
PESHAWAR																							
Chakdara	0000	2197	936.5		1015.8	40.5	38.7	36.3	7.2		85		1.3		18	0	1	0	2	0	7	0	0
	0300		937.4	—	1016.6	41.1	38.9	35.6	7.1	—	81	—	1.8	—	16	0	0	0	3	0	7	0	2
	1200		935.1		1011.8	56.4	47.4	37.0	7.6		48		2.2		3	0	2	0	10	0	5	0	8
Peshawar	0000	1177	972.9		1015.8	44.0	41.6	38.3	7.9		81		2.4		0	0	0	4	10	1	1	1	11
	0300		974.1	—1.6	1017.2	43.6	41.4	38.3	7.9	—0.3	82	+6	3.2	—1.9	0	0	0	1	5	6	1	1	14
	1200		972.3		1014.0	60.5	49.9	36.5	7.5		42		4.0		3	2	1	5	6	1	2	2	6
Risalpur	0000	1047	977.4		1015.6	42.5	42.0	41.3	8.9		96		2.7		0	2	0	0	0	2	12	1	11
	0300		978.2	—	1016.4	43.4	42.7	41.6	9.0	—	94	—	3.2	—	0	2	2	1	0	2	11	3	7
	1200		976.5		1013.4	60.5	53.6	46.7	10.9		61		3.7		1	1	4	2	0	2	11	2	5
Haripur	0300	1757	952.3		1015.8	43.8	41.6	37.8	8.0		83		2.8	—	0	4	0	0	1	23	0	0	0
	1200		951.3		1012.9	59.0	51.3	44.1	9.8		58		3.2		0	4	0	9	0	10	0	5	0
Kohat	0000	1667	956.3		1016.4	46.2	41.5	35.3	7.0		65		2.5		1	1	0	0	0	0	0	17	9
	0300		957.5	—	1017.7	46.6	41.6	35.2	6.9	—	64	—	3.5	—	1	1	0	1	0	0	0	18	7
	1200		955.9		1014.5	59.9	48.5	35.2	7.1		40		4.2		2	2	4	6	1	1	0	2	10
D. I. KHAN																							
Bannu	0000	1263	969.0		1015.2	43.9	41.1	37.1	7.5		77		0.5		0	0	0	0	0	0	2	2	24
	0300		970.3		1016.2	45.2	41.5	36.2	7.2	—0.9	70	+4	1.5	—1.0	0	0	2	0	0	1	4	14	7
	1200		968.3		1013.2	61.7	51.2	39.1	8.1		43		2.2		0	0	3	16	5	0	0	2	2
D. I. Khan	0000	570	993.6		1014.7	45.6	43.9	42.0	9.0		87		1.2		1	2	0	0	0	0	0	0	25
	0300		995.2	—0.9	1016.3	47.1	44.9	43.2	9.2	+0.5	85	+14	2.2	—0.4	0	1	0	0	0	0	0	1	26
	1200		992.9		1013.1	66.5	(i) 54.3	(i) 46.0	8.7		40		2.3		1	2	0	1	0	0	0	1	23
AFGHANISTAN																							
Jalalabad (x)	0000	1950																					
	0300																						
	1200																						

(d) Mean for 27 days. (f) Mean for 25 days. (i) Mean for 22 days. (R) Data not received. (x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calms.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
QUETTA																							
Sibi	0000	441	908.8		1015.0	51.6	44.0	32.5	6.5		53		1.1		0	0	0	0	1	0	0	3	24
	0300		1000.0	+0.6	1016.2	49.2	42.6	32.0	6.4	—1.2	53	+2	2.2	—0.3	0	0	0	1	0	0	3	2	22
	1200		997.3		1012.9	71.0	53.5	30.4	5.9		25		2.0		0	1	0	5	2	4	2	2	12
KALAT																							
Nokkundi	0000	2229	937.0		1016.6	46.7	38.8	25.8	4·9		45		0.6		11	2	3	0	1	0	0	9	2
	0300		938.8		1018.7	45.6	38.9	28.3	5.4	—2.0	53	+4	1.1	—1.4	6	12	2	0	2	0	1	5	0
	1200		936.4		1012.8	67.5	52.0	34.5	7.1		33		0.6		5	2	5	4	5	1	1	4	1
Turbat	0000	510	995.6		1014.1	58.2	51.8	43.3	10.3		61		1.3		0	3	7	0	0	0	1	0	17
	0300		997.4		1015.6	58.3	51.1	39.7	9.4		54		0.9		0	7	7	4	0	0	1	0	9
	1200		993.9		1011.6	79.3	59.0	35.1	8.0		25		0.6		1	6	4	0	0	4	11	2	0
Jiwani	0000	185	1007.4		1014.0	62.5	57.5	51.4	13.9		72		1.9		3	4	2	0	0	2	2	4	11
	0300		1008.8		1015.5	61.7	56.3	49.3	13.0		69		2.1		4	6	0	0	0	2	2	2	12
	1200		1006.8		1013.4	73.8	61·6	49.8	13.3		47		2.0		3	1	0	2	7	8	7	0	0
Pasni	0000	28	1012.2		1013.2	61.0	57.2	52.8	14.3		77		1.5		5	2	1	0	1	0	8	11	0
	0300		1013.8	—1.1	1014.8	60.1	55.9	51.6	13.4	—1.2	75	—6	1.8	—0.5	7	3	1	0	0	0	2	7	8
	1200		1011.7		1012.6	74.8	64.8	57.1	16.5		56		1.8		3	0	1	5	9	7	1	2	0
KARACHI FEDERAL TERRITORY																							
Ormara	0000	15	1012.9		1013.4	61.0	58.8	56.6	16.0		87		2.5		0	0	2	1	0	0	7	0	18
	0300		1014.5		1015.0	63.3	59.7	56.6	16.0	—0.2	81	—1	2.1	—0.7	0	2	2	0	0	0	2	0	22
	1200		1011.8		1012.3	74.2	65.0	57.4	17.0		59		1.4		0	0	1	1	0	4	14	0	8
Lasbela	0000	292	*		*	65.4	58.4	51.3	13.5		63		0.8		*	*	*	*	*	*	*	*	*
	0300		*		*	70.0	61.7	55.6	15.0	+2.1	61	—11	0.9	—1.2	*	*	*	*	*	*	*	*	*
	1200		*		*	81.3	66.7	55.4	15.8		45		0.6		*	*	*	*	*	*	*	*	*
Karachi (Manora)	0000	13	1012.9		1013.4	60.8	57.9	55.2	15.0		83		1.6		4	13	0	0	0	0	2	1	8
	0300		1014.3	—0.9	1014.8	63.0	60.0	57.5	16.3	+1.8	83	+13	1.6	—0.5	2	10	1	0	0	0	1	1	13
	1200		1011.8		1012.3	72.2	66.4	62.9	19.5		72		1.2		2	1	1	1	0	8	14	1	0
Karachi (Mauripur)	0000	52	1011.2		1013.1	(a) 59.9	(a) 56.4	(a) 52.4	13.9		79		1.3		3	5	2	0	0	0	1	3	14
	0300		1012.8		1014.7	58.8	55.3	51.3	13.4		79		1.8		1	6	1	0	0	0	2	2	16
	1200		1010.6		1012.4	74.1	62.9	53.0	14.5		51		1.0		0	1	0	1	2	15	4	5	0
Karachi (City)	0300	20	1013.9		1014.6	61.1	57.7	54.3	14.8		79		2.0		3	13	4	0	0	0	2	1	5
	1200		1011.3		1012.0	73.1	64.4	57.0	16.7		61		1.0		0	1	0	0	4	13	6	4	0
Karachi (P.A.F.) (x)	0000	38																					
	0300																						
	1200																						
Karachi (Airport)	0000	73	1010.7		1013.4	58.3	55.6	52.5	13.9		83		1.6		3	3	0	0	0	0	3	1	18
	0300		1007.6		1015.4	58.2	55.2	52.1	13.5		82		2.2		4	3	1	0	0	0	1	1	18
	1200		1009.6		1012.5	75.2	63.6	54.0	14.8		50		1.2		1	0	0	1	3	16	3	3	1
Gadap	0300		—		—	58.4	54.0	49.4	12.5		74		1.1		14	10	0	0	2	0	0	1	1
	1200		—		—	75.4	59.6	44.9	10.3		35		1.3		0	1	0	0	1	15	8	3	0
HYDERABAD																							
Mithi	0000	96	1009.4		1012.9	53.3	51.8	50.1	12.4		90		0.6		0	0	0	0	0	0	0	0	28
	0300		1011.1		1014.6	53.1	51.4	49.5	12.1		89		0.8		0	1	0	0	0	0	0	1	26
	1200		1008.1		1011.4	81.6	69.9	62.5	19.5		55		1.1		5	1	0	0	0	3	0	9	10
Nagarparkar	0000	178	1006.2		1012.5	60.6	50.0	50.1	12.3		70		0.5		0	0	0	0	0	2	0	7	19
	0300		1008.5		1014.8	61.6	55.6	49.3	12.4		67		0.6		3	0	0	1	0	0	0	6	18
	1200		1005.6		1011.7	80.2	68.2	60.1	18.2		52		0.1		5	3	2	2	1	0	2	10	3

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Umerkot	0000	55	1010.4		1012.4	53.4	49.6	44.9	10.5		74		1.1		5	5	2	0	4	2	0	0	10
	0300		1012.3		1014.3	54.2	50.6	46.8	10.9		74		2.0		5	7	0	0	3	2	0	1	10
	1200		1009.2		1011.1	79.4	63.0	49.3	12.4		36		1.7		7	2	0	0	2	2	3	11	1
Chhor	0000	19	1012.0		1012.7	50.4	47.1	43.1	9.6		77		1.3		1	1	1	0	0	2	0	0	23
	0300		1014.3		1015.0	53.5	48.6	42.3	9.5		68		1.5		3	2	0	0	0	2	0	1	20
	1200		1010.9		1011.6	79.3	58.4	34.4	7.4		23		1.6		5	2	1	0	1	4	4	4	7
Hyderabad	0000	98	1009.7		1013.3	56.4	51.3	45.6	10.6		69		1.3		10	1	0	1	2	2	0	1	11
	0300		1011.8	—0.3	1015.4	56.3	51.4	45.9	10.7	+0.6	70	—11	1.6	—0.1	13	1	2	1	0	2	0	1	8
	1200		1008.7		1012.1	78.7	59.4	39.1	8.6		2		1.0		10	1	1	1	1	3	3	0	8
Badin	0000	31	1012.0		1013.1	56.0	53.4	50.3	12.8		82		1.0		1	1	0	1	0	23	0	2	0
	0300		1014.3	+0.7	1015.4	55.2	51.8	48.0	11.6	—0.8	77	+9	1.0	—0.9	0	1	0	1	0	25	0	1	0
	1200		1011.2		1012.3	81.2	61.6	42.6	9.9		28		1.4		5	0	0	0	2	15	2	4	0
KHAIRPUR																							
Padidan	0000	153	1007.9		1013.5	49.8	47.0	43.6	9.7		81		1.2		3	2	0	0	0	0	0	2	20
	0300		1010.0		1015.6	49.5	46.6	42.8	9.5		80		1.3		5	3	1	1	1	2	0	5	10
	1200		1007.0		1012.3	73.6	57.6	41.5	9.1		35		1.8		5	6	0	4	4	0	0	7	2
Nawabshah	0000	124	1010.0		1014.6	51.4	47.6	42.9	9.6		73		1.2		2	0	0	0	0	0	1	2	23
	0300		1011.7		1016.4	50.5	46.6	42.2	9.1		74		1.1		2	0	0	0	0	0	0	4	22
	1200		1009.0		1013.4	75.8	59.0	42.3	9.5		35		1.6		7	0	0	0	5	1	1	3	11
Sukkur	0300	221	1007.1	+0.1	1015.2	52.2	47.5	42.4	9.1	—0.6	69	+11	1.7	+0.1	1	2	0	6	6	0	0	1	12
	1200		1004.3		1012.1	72.2	57.4	42.1	9.5		37		1.9		4	3	2	3	3	3	4	2	4
Kashmore	0000	255	*		*	52.9	44.3	31.1	6.1		44		1.7		*	*	*	*	*	*	*	*	*
	0300		1006.6		1015.9	55.1	46.1	33.2	6.6		44		1.3		*	*	*	*	*	*	*	*	*
	1200		1003.7		1012.6	72.7	55.3	36.1	7.1		25		1.5		*	*	*	*	*	*	*	*	*
Jacobabad	0000	183	1007.2		1013.9	52.7	46.8	39.2	8.3		61		1.3		3	4	7	1	0	0	0	5	8
	0300		1008.9	—0.3	1015.6	51.4	45.8	38.5	8.0	—1.1	63	+4	2.0	0.0	4	3	4	2	1	0	1	1	12
	1200		1005.9		1012.4	73.8	56.8	37.6	8.2		30		1.7		4	2	2	2	1	5	0	7	5
JUNAGADH																							
Veraval	0000	26	x		x	x	x	x	x		x		x		x	x	x	x	x	x	x	x	x
	0300		(i) 1013.1		(i) 1014.1	(i) 63.2	x	x	x		x		(i) 1.1		12	4	1	0	0	0	(i) 0	4	1
	1200																						
ARABIA																							
Muscat (x)	0300	20																					
	1200																						
HILL STATIONS: KASHMIR																							
Srinagar (x)	0000																						
	0300																						
	1200																						

(x) Data not available. (i) Data for 22 days

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal	Wind Directions Number of Observations From — N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb	Mb.	%	%	oktas										
Gulmarg (x)	0300																						
	1200																						
Gurez (x)	0300	—																					
	1200																						
Sonemarg (x)	0300																						
	1200																						
Dras (x)	0300	—																					
	1200																						
Kargil (x)	0300	—																					
	1200																						
Leh (x)	0000	—																					
	0300																						
	1200																						
Skardu (x)	0000	7250																					
	0300																						
	1200																						
Misgar	0000	10190	694.2		3040.0	13.7	13.0	10.5	2.3		89		4.4		0	0	1	3	0	1	12	7	4
	0300		694.9	...	3047.1	15.8	14.8	12.7	2.5	—	86	—	4.1	—	0	0	4	0	0	1	6	3	14
	1200		693.3		3027.4	26.6	24.5	21.1	3.7		79		4.4		0	0	7	9	0	2	4	4	2
Aliabad (x)	0300																						
	1200																						
Gilgit (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	—		—	—	—	—	—		—		—		—	—	—	—	—	—	—	—	—
	0300		781.0	—2.4	1487.9	29.8	26.3	19.4	3.6	—1.3	65	+4	3.5	—0.	0	7	2	8	0	1	1	4	5
	1200		780.9		1477.1	36.5	32.8	27.3	5.0		70		4.8		0	0	0	10	0	3	0	3	12
PESHAWAR																							
Drosh	0000	4806	853.1		1493.7	34.1	31.7	27.1	5.1		76		3.4		0	1	0	0	0	0	0	0	27
	0300		854.3	—2.1	1504.6	33.3	31.1	26.9	5.1	—0.2	78	+7	4.2	+0.3	0	2	0	3	0	0	0	0	23
	1200		851.6		1480.8	45.1	37.6	24.4	4.6		45		4.9		0	4	3	9	0	1	0	0	11
Cherat	0000	4272	*		*	(l) 41.3	(l) 35.6	(l) 25.9	4.8		54		1.7		10	1	0	1	0	0	0	7	(l) 0
	0300		*		*	40.8	36.0	27.6	5.2	—0.2	62	+6	2.6	—0.9	20	0	0	0	0	0	0	8	0
	1200		*		*	47.0	40.2	29.9	5.8		52		2.9		22	0	0	1	0	0	0	5	0
Kakul	0000	4214	870.3		1472.9	37.7	34.5	29.2	5.5		74		3.1		12	3	3	1	2	1	1	3	2
	0300		871.4	...	1483.6	38.9	35.3	29.7	5.6	—	70	—	3.3	—	9	4	3	1	1	0	1	7	2
	1200		870.4		1478.3	49.1	41.4	30.3	5.8		51		4.2		1	1	3	0	5	8	3	6	1
Balakot	0000	3226																					
	0300																						
	1200																						
Landikotal	0000	3503	892.7		1462.7	38.9	34.9	27.9	5.3		66		2.9		0	0	0	0	0	5	0	0	23
	0300		894.0	...	1473.1	38.2	33.4	27.6	5.3	—	67	—	2.7	...	0	0	0	0	0	6	0	0	22
	1200		892.6		1471.6	51.6	40.9	22.8	4.4		34		3.5		0	2	0	3	0	22	0	0	1

(l) Mean for 19 days. (e) Mean for 26 days.. (x) Data not available (R) Data not received. * Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From — N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Parachinar	0000	5673	*		*	*	*	*	—		—		1.2		9	0	0	2	0	0	0	0	17
	0300		*	...	*	*	*	*	—	—	—	—	1.8	—1.6	7	0	0	6	0	1	0	0	14
	1200		*		*	*	*	*	—		—		2.5		1	0	0	19	0	0	0	0	8
D. I KHAN																							
Miranshah	0000	3026	909.2		1460.5	37.2	31.0	17.2	3.4		47		0.7		0	2	0	0	0	0	0	0	26
	0300		910.3	...	1474.5	40.3	34.2	21.6	4.2	—1.9	51	—19	1.5	—1.1	0	2	0	0	0	0	0	0	26
	1200		908.8		1476.9	54.8	43.9	28.2	5.5		36		2.0		0	2	0	0	0	0	0	0	26
Wana	0300	4503	862.1	...	1485.9	36.4	33.0	25.9	5.1	—0.5	68	—8	1.7	—1.1	0	0	0	0	0	1	0	0	27
	1200		860.0		1469.6	51.7	40.7	21.4	4.3		32		3.6		0	0	0	2	0	5	0	4	17
QUETTA																							
Fortsandeman (P.T.)	0300	4614	859.6	—0.5	1496.0	37.0	32.7	24.3	4.6	—1.2	64	—10	2.1	—0.6	0	1	3	6	4	2	2	1	9
	1200		857.8		1481.1	54.4	40.4	12.7	3.1		28		4.2		2	3	2	1	2	6	7	4	1
,, (P.B.O.)	0000	4615	859.0		1490.5	36.9	33.1	26.5	4.8		68		2.4		1	2	2	4	4	3	2	1	9
	0300		859.5		1498.4	37.6	33.2	25.7	4.7		64		2.4		0	2	0	3	5	3	2	0	13
	1200		857.5		1481.1	53.0	40.9	19.6	3.9		34		4.3		1	3	2	2	0	4	10	3	3
Hindubagh	0000	5909	817.1		1480.5	33.4	28.8	23.5	3.8		62		*		0	0	0	1	0	8	13	0	6
	0300		817.3		1483.0	34.3	31.2	26.4	4.8		75		*		0	0	1	0	0	9	14	0	4
	1200		816.6		1465.5	47.9	40.6	31.1	6.1		54		*		0	0	0	1	0	11	15	0	1
Loralai	0000	4699	854.6		1474.4	36.2	32.6	26.1	4.8		69		1.8		0	0	0	0	0	0	17	4	7
	0300		855.4		1481.9	34.6	31.5	25.7	4.7		72		2.1		1	0	0	0	1	0	17	5	4
	1200		853.4		1464.6	54.9	43.7	27.8	5.2		36		3.7		0	2	5	10	1	4	0	5	1
Harnai	0300	2861											*		*	*	*	*	*	*	*	*	*
	1200												*		*	*	*	*	*	*	*	*	*
Quetta (Samungli)	0000	5213	840.3		1495.1	31.2	30.4	29.3	5.4		92		2.5		0	0	1	6	2	0	2	1	16
	0300		841.2		1503.9	30.7	29.8	29.1	5.2		92		2.4		0	1	4	4	0	1	3	0	15
	1200		839.6		1485.7	50.3	43.3	35.0	6.4		63		3.9		1	0	0	1	1	3	9	11	2

(*) Data rejected. (x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1961

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850 mbs. pressure level in Opm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
QUETTA—contd.																							
Quetta (P.T)	0300	5490	832.0	—1.6	1498.6	37.0	32.8	26.9	4.9	—0.6	68	—7	2.9	—0.3	0	1	0	0	7	0	0	0	20
	1200		830.5		1478.0	50.1	41.3	30.8	5.7		51		3.9		7	0	1	0	2	2	2	12	2
,, (P.B.O.)	0000	5560	829.9		1537.4	32.2	28.3	21.4	3.9		64		2.2		0	0	0	0	0	1	2	0	25
	0300		830.3		1539.5	33.1	29.7	24.1	4.4		71		2.5		0	3	6	4	1	1	0	1	12
	1200		829.7		1528.1	49.7	40.0	27.2	5.0		49		3.2		0	0	0	0	2	3	1	6	16
Chaman	0000	4311	868.3		1485.6	39.5	34.4	25.4	4.7		58		2.5		0	0	5	10	0	2	1	0	10
	0300		869.6	—0.5	1497.9	39.8	34.1	23.8	4.4	—1.7	55	—6	3.6	+0.5	0	0	8	8	4	0	2	1	5
	1200		868.5		1492.4	52.7	41.3	22.0	4.3		36		3.7		1	0	0	0	4	6	5	9	3
Nushki	0000	3416	903.8		1537.2	42.4	6.2	24.6	4.8		52		1.8		0	4	7	2	0	1	0	3	11
	0300		904.3		1545.9	47.1	40.1	29.5	5.6		53		2.6		0	3	7	0	1	1	0	3	13
	1200		902.6		1542.5	59.7	47.0	31.4	5.9		39		2.5		0	2	3	0	0	8	3	7	5
Dalbandin	0000	2785	918.6		1476.9	42.4	37.6	30.0	5.7		65		2.0		1	10	4	1	1	0	1	1	9
	0300		920.0	+0.8	1487.0	40.9	38.4	29.0	5.5	—1.8	67	+1	2.5	—0.1	2	11	3	2	1	1	0	1	7
	1200		917.4		1494.1	64.7	48.7	27.6	5.3		29		2.6		1	1	5	3	4	4	4	2	4
KALAT																							
Kalat	0000	6616	797.8		1506.8	29.7	29.3	28.8	5.3		96		1.7		3	0	0	1	20	1	0	3	0
	0300		798.6	—0.6	1512.8	32.0	31.0	29.8	5.5	+0.7	92	+24	3.0	+0.2	3	1	0	3	17	2	1	1	0
	1200		797.5		1484.4	48.2	44.0	40.1	8.6		79		2.6		7	1	0	0	3	5	3	9	0
Panjgur	0000	3177	905.7		1483.3	44.0	39.7	32.5	6.6		67		1.4		5	15	1	0	0	2	0	0	5
	0300		907.0	+1.0	1494.0	43.4	38.9	31.5	6.2	—1.6	65	—7	2.0	—0.1	1	27	0	0	0	0	0	0	0
	1200		904.9		1495.9	63.5	48.8	30.0	5.9		33		1.9		14	1	0	0	0	13	0	0	0
AFGHANISTAN																							
Kabul	0300	5955	x		x	29.9	*	*					1.5	—2.8	1	4	0	3	2	15	1	2	0
	1200		x		x	39.9	*	*					1.8		0	9	0	4	0	10	0	5	0
Kandahar	0300	3462	896.3	...	1478.3	35.7	32.2	25.2	4.8	...	68	...	3.5	...	1	2	6	1	0	1	0	0	17
	1200		894.1		1477.3	56.1	44.3	27.9	5.3		34		3.5		1	1	1	1	2	6	5	0	11

(x) Data not available. (*) Data rejected.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF FEBRUARY, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
CHITTAGONG DIVISION																					
Rangamati	83.3		90	26	54.6		45	17	0.01		0.01	6	0		x		0	0	23	0	0
Cox's Bazar (P. T.)	81.1	—1.0	86	27	59.9	+0.4	54	17,11,24	0.16	—0.31	0.16	4	1	+0.1	x		0	0	0	0	0
Chittagong (Patenga)	79.5		85	26,27	59.4		51	11	0.22		0.12	3	1		x		0	0	2	0	0
Chittagong (P. T.)	81.3	—1.0	87	26,27	58.7	0.0	49	16	0.37	—0.73	0.23	4	2	+0.7	x		0	0	2	0	0
Maijdi Court	78.6	—2.5	87	26	57.2	—4.7	46	16	0.90	—0.07	0.25	4	4	+2.3	x	—	0	0	0	0	0
Comilla	79.7	—2.5	91	2	57.1	—0.4	47	16	1.18	—0.04	0.71	3	3	+1.1	x	—	0	0	0	0	0
Brahmanbaria	78.0	—4.7	87	27	56.9	+1.4	47	16	0.60	—0.43	0.32	8	3	+1.1	2.5		0	0	3	0	0
Srimangal	78.4	—4.3	87	21,25	50.3	—1.6	39	16	0.84	—0.66	0.35	3	5	+2.3	2.3	—0.3	0	0	1	0	0
Sylhet (P.B.O.) (x)																					
DACCA DIVISION																					
Mymensingh	77.1	—2.5	86	26	55.0	—1.7	46	16	0.49	—0.37	0.22	8	2	+0.3	x		1	0	2	0	0
Narayanganj	78.9	—2.8	87	25	58.0	—1.0	51	12	1.30	+0.06	0.87	6	3	+1.1	2.1	+0.5	1	0	7	0	0
Dacca (Tejgaon)	77.6		86	25,26	56.2		45	16	1.85		1.02	6	3		3.7		1	0	3	0	0
Faridpur	77.3	—2.8	88	1	55.0	—1.2	45	10	2.40	+1.21	0.84	6	3	+0.9	2.2	+0.3	0	0	2	0	0
KHULNA DIVISION																					
Barisal	78.9	—3.0	87	25,26,27	58.6	—1.5	49	16	2.21	+1.27	1.35	3	3	+1.2	x		1	0	0	0	0
Khulna	80.0	—3.0	90	25,26	59.2	—0.6	50	10,16	0.94	+0.01	0.49	8	2	—0.2	1.4	—0.7	0	0	0	0	0
Satkhira	79.7	—4.8	89	25	57.6	—0.7	48	4 days	1.59	+0.56	0.66	6	5	+3.2	0.6	—0.7	0	0	0	0	0
Jessore (P.T.)	78.2	—3.6	88	25	55.0	—0.5	45	10,16	2.07	+0.77	0.78	6	3	+1.0	1.2	—0.1	0	0	0	0	0
RAJSHAHI DIVISION																					
Pabna	77.2	—5.8	87	25	55.5	—0.3	47	16	2.99	+2.03	1.22	8	5	+3.1	x	—	1	0	1	0	0
Serajganj	77.0		86	25	54.9		47	10,16	1.04	+0.30	0.34	8	4	+2.3	1.6		1	0	0	0	0
Rajshahi (R)																					
Bogra (P.B.O.)	76.3	—4.0	85	25	54.4	—0.5	45	16	1.07	+0.28	0.48	3	2	+0.4	2.2	+1.1	1	0	0	0	0
Dinajpur	77.7	—1.6	85	25	53.3	0.0	45	10,15,16	1.51	+0.90	0.78	3	3	+1.7	x		2	0	0	0	0
Rangpur	76.3		84	28	52.6		44	10,16	1.07	+0.37	0.66	2	3	+1.7	1.7		1	0	0	0	0

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF FEBRUARY, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (Inches)						Wind Velocity (Knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR																					
Jammu (x)																					
LAHORE																					
Lahore (P.B.O.)	66.7	—5.4	83	28	45.2	+0.7	37	8,9	1.03	+0.06	0.66	2	2	—0.1	2.8	+1.3	2	0	0	0	0
,, (Cantt.)	66.0	—	81	28	45.4	—	39	5 days	0.92	—	0.67	2	3	—	3.2	—	0	0	3	0	0
,, (Walton)	67.5	—	83	28	44.2	—	38	8	1.08	—	0.73	2	2	—	4.3	—	0	0	1	0	0
Sialkot	67.1	—2.3	80	28	44.6	—0.9	39	8,9	1.68	+0.01	1.35	2	3	0.0	(c) 1.7	+0.5	0	0	0	0	0
RAWALPINDI																					
Jhelum	65.8	—	81	28	43.4	—	37	8	1.64	—	0.80	2	4	—	2.7	—	0	0	0	0	0
Chaklala	61.2	—	76	28	38.6	—	33	8,9,13	1.71	—	0.55	4	6	—	5.2	—	1	0	7	0	0
Rawalpindi	61.5	—3.7	75	28	39.5	—2.2	32	9	1.19	—1.29	0.41	2	5	+1.0	2.8	+0.6	0	1	0	0	0
Campbellpur	*	—	*	—	39.6	—	33	8,9	0.68	—	0.30	7	2	—	0.6	—	0	0	0	0	0
SARGODHA																					
Khushab	67.3	—4.0	85	28	(d) 41.8	—4.2	35	11,14	1.43	+0.51	0.78	2	3	+0.9	2.4	—0.3	0	0	1	0	0
Sargodha	66.2	—	83	28	42.5	—	35	8,9	0.94	—	0.70	2	2	—	2.6	—	3	1	0	0	0
Mianwali	65.5	—	83	28	42.4	—	36	9,14	1.45	—	0.95	1	2	—	(x)	—	0	0	0	0	0
Lyallpur	*	—	—	—	*	—	—	—	0.79	+0.22	0.37	2	3	+1.4	1.7	0.0	2	0	0	0	0
MULTAN																					
Montgomery	68.2	—4.3	83	28	45.0	—1.4	36	8,9	0.21	—0.29	0.09	23	0	—1.5	1.5	—0.9	3	0	0	0	0
Multan (P.B.O.)	69.5	—	85	28	43.7	—	35	8	0.12	—	0.07	4	0	—	2.5	—	0	0	3	0	0
,, (Surface)	69.7	—3.1	84	28	47.0	+0.2	40	7	0.08	—0.30	0.05	4	0	—1.3	(x)	—	0	0	0	0	0
Leiah (R)																					
BAHAWALPUR																					
Khanpur (P.B.O.)	72.4	—	88	28	43.1	—	31	8	0.14	—	0.07	1,4	0	—	3.5	—	0	0	0	0	0
Bahawalpur	72.2	—3.4	88	28	46.7	—0.2	35	8	0.21	—0.05	0.16	4	1	+0.2	2.3	+0.1	0	0	0	0	0
Fort Abbas	70.4	—	87	28	*	—	—	—	0.00	—	0.00	—	0	—	2.7	—	0	0	0	0	0
PESHAWAR																					
Chakdara	57.4	—	74	28	38.1	—	33	8,13,14	1.90	—	0.50	4	7	—	(x)	—	0	0	0	0	0
Peshawar	62.0	—4.2	79	28	40.3	—3.7	33	8	1.21	—0.32	0.44	2	4	+0.7	1.5	—0.1	0	0	1	0	0
Risalpur	62.1	—	77	28	39.4	—	33	8,9	1.22	—	0.50	2	4	—	3.1	—	0	0	2	0	0
Haripur	60.8	—	73	26,27,25	39.1	—	34	4 days	1.95	—	0.47	6	7	—	5.0	—	0	0	0	0	0
Kohat	61.1	—	78	28	43.0	—	34	7	1.03	—	0.44	2	4	—	3.6	—	1	0	0	0	0
D. I. KHAN																					
Bannu	63.9	—4.7	78	28	*	—	—	—	0.21	—0.97	0.11	19	2	—1.1	1.5	—	0	0	0	0	0
D. I. Khan	68.0	—3.6	85	28	42.7	—2.2	35	8,9	0.26	—0.41	0.14	6	1	—0.7	1.1	—0.1	0	0	0	0	0
AFGHANISTAN																					
Jalalabad(x)...																					

(R) Register not received. (*) Data rejected. (c) Mean of 26 days. (x) Data not available.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF FEBRUARY, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (Inches)						Wind Velocity (Knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
QUETTA																					
Sibi	73.6	—2.1	91	28	45.7	—4.0	35	8	0.52	—0.35	0.30	4	3	+1.3	2.1	—0.3	0	0	0	0	0
KALAT																					
Nokkundi	67.7	—5.0	87	28	41.3	—5.7	29	7,8	0.10	—0.30	0.09	2	0	—1.1	(x)	—	0	0	0	0	0
Turbat	80.5		97	28	—	—	—	—	0.59	—	0.41	4	2	—	(x)	—	0	0	0	2	0
Jiwani	76.6		83	18,26	59.0	—	48	6	0.21	—	0.13	4	1	—	6.2	—	0	0	0	0	0
Pasni	77.4	+0.5	84	26,28	59.2	+2.6	51	8	1.30	—0.11	1.30	4	1	—1.0	6.4	+1.3	0	0	2	0	1
KARACHI FEDERAL TERRITORY																					
Ormara	76.8	+1.1	83	13,24	57.6	—2.6	45	8	1.44	—0.75	1.11	4	3	—0.3	1.6	—3.9	0	0	1	0	0
Lasbela	83.2	+0.8	96	28	50.1	—1.2	41	11	(x)								0	0	0	0	0
Karachi (Manora)	75.5	—1.4	85	24	58.2	—2.8	48	8	0.00	—0.44	0.00	0	0	—1.0	(x)	—	0	0	0	0	2
Karachi (Mauripur)	76.3	—	85	24	55.9	—	45	8	2.21	—	1.50	4	2	—	4.5	—	1	0	1	0	0
Karachi (City)	78.1	—	88	24,28	55.7	—	44	7	1.26	—	0.96	2	2	—	3.0	—	0	0	0	0	0
Karachi (P.A.F.) (x)																					
Karachi (Airport)	77.7	—	90	28	54.4	—	43	8	2.14	—	1.39	4	2	—	3.7	—	1	0	2	0	0
Gadap	78.0	—	92	28	52.1	—	44	8,9,10	1.43	—	0.75	1	2	—	(d) 3.7	—	0	0	0	0	0
HYDERABAD																					
Mithi	84.0		98	28	47.7	—	33	8	0.45	—	0.35	1	2	—	1.3	—	0	0	0	0	0
Nagarparkar	81.8	—	93	28	(x) 47.7	—	x	—	0.00	—	0.00	0	0	—	x	—	0	0	0	0	0
Umerkot	80.8	—	94	23,28	50.3	—	38	8	0.21	—	0.21	1	1	—	3.3	—	0	0	0	0	0
Chhor	80.8	—	95	28	46.9	—	33	8	0.57	—	0.57	1	1	—	1.9	—	0	0	1	0	0
Hyderabad	81.0	—0.2	95	28	53.1	—1.4	42	7,8	0.17	—0.07	0.17	1	1	+0.4	2.5	—1.2	0	0	1	0	0
Badin	82.5	+0.1	95	28	51.2	—3.3	38	8	0.57	+0.19	0.40	2	2	+1.1	x	—	0	0	0	0	0
KHAIRPUR																					
Padidan	74.1	—	89	28	45.9	—	35	7,8	0.55	—	0.35	1	2	—	3.1	—	0	0	0	0	0
Nawabshah	76.4	—	91	23	48.5	—	35	7,8	0.28	—	0.23	4	1	—	2.0	—	0	0	0	0	0
Sukkur	74.6	—4.1	89	28	48.3	—3.7	38	7	0.36	+0.08	0.36	1	1	+0.2	2.2	—0.4	0	0	0	0	0
Kashmore	79.2	—	88	28	42.9	—	35	1	0.07	—	0.07	4	0	—	x	—	0	0	0	0	0
Jacobabad	74.3	—2.8	90	28	48.4	—2.1	38	6,11	0.14	—0.19	0.08	4	0	—0.9	3.6	+0.4	0	0	1	0	0
JUNAGADH																					
Veraval (x)	(x)		—		(x)		—		(x		(x		x)		(x)	—	0	0	0	0	0
ARABIA																					
Muscat																					
HILL STATIONS																					
KASHMIR																					
Srinagar (x)																					
Gulmarg (x)																					
Gurez (x)																					
Sonamarg (x)																					
Dras (x)																					
Kargil (x)																					
Leh (x)																					
Skardu (x)																					

(x) Data not available. (R) Data rejected. (g) Mean for 24 days. (d) Mean for 27 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF FEBRUARY, 1961

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Visibility Code Figure 93 or less: Fog.	Visibility Code Figure 93 or less: Haze (dust).	Visibility Code Figure 93 or less: Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR—(*continued*)																					
Misgar	31.8	—	42	28	12.3	—	4	10,11	0.12	—	0.05	4,17	0	—	1.8	—	0	0	0	0	0
Aliabad (x)																					
Gilgit (x)																					
RAWALPINDI																					
Murree	40.8	—5.9	56	26,28	24.7	—6.4	13	8,9	4.58	0.27	0.88	5	9	+2.6	5.8	+0.5	2	0	11	0	0
PESHAWAR																					
Drosh	48.7	—0.3	69	28	31.6	—2.0	26	8,9,10	1.64	+0.09	0.41	2	6	+2.3	2.2	—0.3	0	0	0	0	0
Cherat	50.9	—1.0	65	27	36.3	—4.4	30	7,9	4.35	+1.14	0.89	1	11	+6.3	(i) 3.5	—4.7	0	0	1	0	0
Kakul	53.4	—	69	27,28	35.8	—	29	6,8	2.92	—	0.74	4	9	—	(x)	—	1	0	9	0	0
Balakot (R)																					
Landikotal	52.4	—	70	28	34.6	—	28	8,9,10	0.91	—	0.39	1	3	—	(x)	—	0	1	0	0	0
Parachinar	51.2	—0.6	69	28	26.3	—5.0	20	4 days	8.55	+5.92	2.50	2	7	+1.6	(e) 2.4	+0.4	0	0	0	0	0
D. I. KHAN																					
Miransahah	57.5	—3.6	75	28	36.1	—5.4	28	6	0.60	—0.96	0.45	2	2	—2.1	1.7	—1.8	0	0	0	0	0
Wana	53.5	—4.6	72	28	30.8	—1.7	23	14	0.50	—0.98	0.35	19	2	—1.6	0.9	—	0	0	0	0	0
AFGHANISTAN																					
Kabul	41.2	—1.0	58	28	24.1	+0.1	13	4	0.99	—0.50	0.28	3	4	+0.6	(x)	—	0	0	0	0	0
Kandahar	56.7	—	74	28	31.5	—	23	2	0.24	—	0.09	1	0	—	1.4	—	0	1	0	0	0
QUETTA																					
Fort Sandeman (P.T.	55.6	—3.7	76	27,28	33.7	—1.7	26	7	1.09	+0.01	0.32	2	5	+1.7	x	—	0	0	0	0	0
" " (P.B.O.)	54.5	—	75	27,28	34.0	—	27	7	1.09		0.34	2	4	—	3.2	—	0	0	1	0	0
Hindubagh	*	—	—	—	*	—	—	—	1.28		0.35	19	5	—	8.0	—	0	0	0	0	0
Loralai	57.6	—	77	28	28.9	—	21	7,8	0.55	—0.52	0.35	2	2	—0.6	3.5	—	0	0	0	0	0
Harnai	—		—		—	—	—	—	4.42	+3.09	2.05	2	6	+3.6	(x)	—	0	0	0	0	0
Quetta Samungli	51.2		71	27,28	27.0	—	19	8,24	1.43	—	0.61	4	4	—	(g) 4.9	—	1	0	0	0	0
" (P.T.)	51.4		70	28	30.3	—	20	9	1.04	—	0.34	1	6	—	3.1	+0.5	0	0	0	0	0
" (P.B.O.)	51.2		72	28	28.8	—	16	2	1.83	—	0.76	4	4	—	2.8	—	0	0	0	0	0
Chaman	56.7	—0.6	73	28	34.8	—3.3	20	20	0.85	—0.87	0.32	4	4	—0.4	(x)	—	0	0	0	0	0
Nushki	61.5	—	82	28	41.5	—	30	7	1.41		0.80	4	5	—	(x)	—	0	0	0	0	0
Dalbandin	65.3	—2.2	83	27	37.7	—1.9	25	7,8	0.66	—0.30	0.22	4	3	+0.8	3.5	0.0	1	2	0	0	1
KALAT																					
Kalat	55.6	—2.3	70	27	27.0	—4.2	17	24	5.30	+3.91	1.75	4	4	+2.0	x	—	0	0	0	0	0
Panjgur	63.9	—4.1	84	28	40.1	—2.4	31	7,8	0.99	+0.03	0.51	4	3	+1.1	x	—	0	0	0	0	0
ARABIA																					
Muscat (x)																					

(x) Data not available. (R) Register not received. (g) Mean for 24 days. (*) Data rejected.

Regd. No. S.-1452

PAKISTAN WEATHER REVIEW, 1961.

Monthly Weather Report.

March.

AUG 31 1965 WEATHER BUREAU

PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN.

Chief Features.—1. Extensive loss of life and property in East Pakistan specially in Dacca Division due to Northwesterly squalls on the 18th and the 19th.

2. Scantly Nine western disturbances affected West Pakistan during the month , of which only two were active.

East Pakistan.—Four westerly low pressure waves moved across the region during the first fortnight and caused fairly widespread rain or thundershowers over most of the province on the 6th and the 7th, local rain in Chittagong division on the 2nd, 3rd and the 8th and scattered rain or thundershowers over the region outside Khulna division on the 14th. Another westerly low pressure wave caused fairly widespread rain or thundershowers in Rajshahi and Dacca divisions on the 16th and scattered thunderstorms in Rajshahi division on the 17th.

Thereafter, an active westerly low pressure wave, with associated cyclonic circulation extending up to 10,000 ft. moved across the region and caused fairly widespread rain or thundershowers in Dacca division and scattered or local elsewhere in the region on the 19th and the 20th. Some of the thunderstorms were accompanied by severe northwesterly squalls that affected the region specially Dacca division on 18th night and the 19th morning and the forenoon. According to the available information maximum surface wind ranged between 45 m. p. h. to 60 m. p. h. Newspapers reported a loss of 276 lives and injury to more than 1,200 persons in the two days havoc. More than 2,000 houses collapsed and 60,000 acres of paddy fields were adversely affected in Sylhet district. According to a survey, property worth Rs. 9 Lakhs was damaged in the Nawabganj and Dohar areas of Dacca district.

The weather activity continued for another 3 days when nearly local rain or thundershowers occurred in most parts of the region under the influence of two westerly low pressure waves. Scattered or local thunderstorms also occurred in Chittagong and Khulna divisions on the 26th, only in Chittagong division on the 27th, in Dacca and Chittagong divisions on the 29th and in Dacca and Khulna divisions on the 30th due to two more westerly low pressure waves. Yet another low pressure wave moving on the last day of the month, caused fairly widespread rain or thundershowers in Dacca division and scattered in Khulna and Chittagong divisions.

Chief amounts of rainfall recorded during the month were : Mymensingh 1" on the 7th ; Narayanganj 1½" on 20th ; Srimangal 1½" and Satkhira and Jessore 1" each on the 22nd and Barisal 1½" on the 23rd.

The total rainfall during the month was normal in Chittagong division, in large defect in Rajshahi division and in slight defect elsewhere over the region as a whole.

The mean maximum and the mean minimum temperatures were above normal over the region outside Chittagong and Khulna divisions where the mean maximum temperature was normal.

The mean relative humidity was normal in Chittagong and Rajshahi divisions and in excess elsewhere. The mean cloud amount was in excess all over the region outside Rajshahi division where it was normal.

West Pakistan.—Local thunderstorms occurred in Rawalpindi division on the 5th due to the passage of a feeble secondary western disturbance. Two secondary western disturbances then caused mainly scattered rain in Peshawar division between the 10th and the 12th and scattered thunderstorms in Rawalpindi and Kalat Divisions on the 9th. Thereafter, two active western disturbances affected the region in the 3rd week and caused nearly fairly widespread rain or thundershowers in Lahore and Rawalpindi Divivisions on the 19th and in Multan Division on the 18th. Scattered or local rain and thunderstorm otherwise occurred in most parts of the northern divisions and also in Quetta division during the period. Scattered rain also fell in Rawalpindi Division on the 20th. Two more secondary western disturbances moving in quick succession caused widespread rain or thundershowers in Lahore Division on the 24th ; fairly widespread in Peshawar and Rawalpindi Divisions on the 24th ; and the 25th and scattered or local rain in Sargodha, Multan and D. I. Khan Divisions on these days ; Scattered rain fell in Peshawar, D. I. Khan, Quetta and Kalat Divisions on the 23rd, in the last two divisions on the 24th and light snowfall in Murree hills on the 25th. Scattered light rain and thunderstorms were reported from Peshawar Division on the last two days of the month due to the passage of two more secondary western disturbances.

Chief amounts of rainfall recorded during the month were : Parachinar 1" on the 10th ; Murree, Kakul and Parachinar 1" each on the 19th and Parachinar 1½" on the 10th.

The total rainfall during the month was in slight defect in Peshawar division, in moderate defect in Multan, D. I. Khan and Quetta divisions and in large defect elsewhere. Averaged over the region it was in moderate defect.

The mean maximum temperature was normal in Lahore, Rawalpindi, Sargodha and Multan Divisions and above normal elsewhere.

The mean minimum temperature was above normal in Lahore, Bahawalpur, Quetta, Kalat divisions and the Karachi Federal Territory and normal over rest of the region.

The mean relative humidity was in defect in Multan, Bahawalpur, Quetta and Khairpur divisions and normal elsewhere.

The mean cloud amount was in defect in Lahore, Sargodha and Peshawar divisions, normal in Rawalpindi and D. I Khan divisions and in excess elsewhere.

Table I contains the divisional means of rainfall, temperature, humidity and cloud amount for the 16th divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

10Met)62

TABLE I.—DIVISIONAL MEANS FOR MARCH, 1961.

Division.	PRECIPITATION.				DEPARTURE FROM NORMAL OF				
							03 hrs. G.M.T.		
	Actual	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	Inches	Inches	Inches		Degree	Degree	Mb.	%	
EAST PAKISTAN.									
Chittagong	2·79	2·63	+0·16	+6	—0·3	+5·2	+2·8	+3	+1·3
Dacca	1·85	2·11	—0·26	—12	+2·2	+4·4	+4·2	+7	+0·7
Khulna	1·55	1·87	—0·32	—17	0·0	+5·9	+5·9	+11	+0·6
Rajshahi	0·12	1·06	—0·94	—89	+3·0	+3·7	+2·1	+2	—0·1
Mean	1·65	1·96	—0·31	—16	+1·1	+4·8	+3·7	+5	+0·7
WEST PAKISTAN.									
Kashmir(×)									
Lahore	0·48	1·15	—0·67	—58	+0·9	+2·3	—0·5	—3	—0·5
Rawalpindi	1·73	3·74	—2·01	—54	—0·4	+0·1	—0·6	+2	+0·1
Sargodha	0·09	0·80	—0·71	—89	+0·1	—1·1	+0·7	+3	—1·0
Multan	0·21	0·41	—0·20	—49	+0·5	+0·3	—1·3	—7	+0·5
Bahawalpur	0·00	0·40	—0·40	—100	+2·6	+3·0	—1·6	—10	+0·6
Peshawar	2·76	3·70	—0·94	—25	+3·1	0·0	—0·1	—4	—0·8
D. I. Khan	0·89	1·75	—0·86	—49	+2·4	+1·0	+1·3	+4	—0·1
Quetta	0·64	1·05	—0·41	—39	+3·4	+2·8	—0·4	—11	+1·2
Kalat	0·10	0·41	—0·31	—76	+3·0	+4·5	+0·4	—2	+0·7
Karachi Federal Territory	0·00	0·52	—0·52	—100	+4·4	+2·9	+1·7	—1	+1·0
Hyderabad	0·00	0·17	—0·17	—100	+5·3	+1·3	—0·2	+4	+0·7
Khairpur	0·01	0·23	—0·22	—96	+2·0	+1·7	—2·1	—7	+2·3
Mean	0·51	0·99	—0·48	—48	+2·7	+2·1	—0·2	—3	+0·6
Junagadh(×)									

(×) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1961.

Division and Station.	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure. Station level reduced to standard temperature and gravity.	Mean Pressure. Departure from normal.	Mean Pressure. Reduced to standard temperature and M.S.L. or Geopotential of 850/700 mbs. pressure level in G.P.M.	Mean Temperature of the Air and Humidity. Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount. Mean amount.	Departure from normal.	Wind Direction Number of Observations From :— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas	oktas									
CHITTAGONG DIVISION.																							
Rangamati	0000	208	1005·1		1012·4	69·4	67·4	66·2	22·0		90		4·5		4	0	0	1	18	0	0	2	6
	0300		1006·7		1011·9	79·8	71·5	67·0	22·6		68		2·6		0	0	0	2	22	3	1	3	0
	1200		1003·1		1010·2	82·2	71·9	65·5	22·1		61		2·0		0	0	0	0	21	6	1	2	1
Cox's Bazar (P. T.)	0300	38	1012·0	+0·6	1013·3	81·0	75·1	72·3	27·1	+2·4	75	+1	2·3	+0·1	4	1	1	6	11	6	1	1	0
	1200		1008·7		1010·0	79·7	75·3	72·6	27·9		79		2·5		0	0	0	0	10	11	6	4	0
Chittagong (Patenga)	0000	20	1010·4		1011·1	72·5	71·6	71·0	26·1		94		3·5		0	1	1	19	1	0	0	0	9
	0300		1012·4		1013·1	79·8	75·8	73·5	28·6		83		3·6		0	2	1	18	5	0	0	0	5
	1200		1008·9		1009·6	80·2	76·6	74·8	29·6		84		2·7		0	0	0	0	16	7	6	0	2
Chittagong (P. T.)	0300	46	1011·7	+0·3	1013·3	80·1	73·7	70·7	25·5	+2·0	73	0	3·8	+1·3	0	1	1	9	14	4	1	1	0
	1200		1007·9		1009·5	79·7	74·2	71·8	26·4		76		2·8		0	0	0	0	14	13	4	0	0
Maijdee Court	0000	25	1009·9		1010·7	74·5	73·4	72·9	27·7		95		4·7		0	0	1	3	10	0	0	0	17
	0300		1011·7	0·0	1012·6	80·2	76·0	74·1	28·7	+2·9	82	+6	4·6	+2·0	0	0	0	7	16	0	0	0	8
	1200		1008·0		1008·8	81·4	76·1	73·5	28·4		78		3·0		0	0	0	7	19	1	1	0	3
Comilla	0000	29	1008·3		1009·3	73·1	71·5	70·5	25·7		91		3·5		0	0	0	1	22	0	0	0	8
	0300		1010·7	−0·7	1011·7	80·1	74·0	70·6	26·0	+1·3	74	+2	4·6	+1·7	0	0	0	0	20	0	0	0	11
	1200		1006·4		1007·4	84·3	73·9	68·1	23·8		60		3·6		0	0	0	0	25	0	0	0	6
Brahmanbaria	0000	32	1009·0		1010·1	72·8	71·1	70·2	25·2		92		3·7		1	0	0	1	23	2	0	0	4
	0300		1011·1		1012·2	79·0	73·7	70·1	26·0	+4·9	78	+11	3·5		0	1	0	4	21	5	0	0	0
	1200		1006·4		1007·5	83·9	73·6	68·1	23·6		60		3·3		0	0	0	1	13	5	0	0	12
Sylhet (P. B. O.) (R)	0000	115																					
	0300																						
	1200																						
Srimangal	0000	...	1007·2		×	69·4	67·2	65·9	21·8		89		2·5		0	0	0	0	2	1	0	0	28
	0300		1009·2	−1·1	×	78·1	72·5	69·2	24·3	+3·5	75	+1	3·6	+1·2	1	0	0	5	8	3	0	0	14
	1200		1004·9		×	79·2	72·7	69·0	24·6		73		3·4		1	2	0	0	4	2	1	0	21
DACCA DIVISION.																							
Mymensingh	0000	62	1007·8		1009·9	70·5	68·7	67·6	23·1		91		3·6		0	0	1	12	0	1	4	0	13
	0300		1010·0	−0·4	1012·1	76·2	71·5	69·0	24·3	+4·3	79	+8	3·7	+0·3	0	0	2	21	0	0	5	0	3
	1200		1005·1		1007·2	85·4	71·7	63·4	20·4		51		2·4		0	0	4	8	0	1	4	0	14
Jamalpur (R)	0000	63																					
	0300																						
	1200																						
Narayanganj	0000	26	1008·6		1009·5	73·8	71·8	71·0	25·7		91		2·9		0	1	2	6	8	6	0	0	8
	0300		1011·0	−0·5	1011·9	80·4	74·5	71·8	26·5	+4·1	73	+2	4·0	+0·7	0	0	2	3	13	10	2	1	0
	1200		1006·1		1007·0	85·4	74·0	67·9	23·5		57		2·7		0	0	1	4	11	9	3	0	3

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1961.

Division and Station.	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure. Station level reduced to standard temperature and gravity.	Mean Pressure. Departure from normal.	Mean Pressure. Reduced to standard temperature and M.S.L. or Geopotential of 850/700 mbs. pressure level in G.P.M.	Mean Temperature of the Air and Humidity. Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount. Mean amount.	Departure from normal.	Wind Direction Number of Observations From :— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas	oktas									
DACCA DIVISION—*Contd.*																							
Dacca (Tejgaon)	0000	32	1007·9		1009·0	72·6	71·0	70·1	25·2		93		3·2		1	1	1	2	6	10	0	0	10
	0300		1010·3		1011·4	79·0	73·8	71·2	26·1		78		3·6		0	0	0	3	8	19	0	0	1
	1200		1005·7		1006·8	85·1	72·5	65·1	21·5		52		3·2		0	0	0	1	8	18	0	1	3
Faridpur	0000	46	1007·7		1009·3	72·0	70·2	68·9	24·4		90		3·5		0	0	1	8	11	3	0	0	8
	0300		1009·8	—0·5	1011·4	79·4	74·0	71·0	26·2	+4·2	77	+11	3·2	+1·0	3	0	1	3	9	8	5	1	1
	1200		1004·9		1006·5	85·2	72·6	65·1	21·7		53		2·2		1	0	0	6	10	2	2	0	10
KHULNA DIVISION.																							
Barisal	0000	11	1009·7		1010·1	74·5	72·8	71·8	26·8		92		2·5		0	0	0	0	9	1	0	0	21
	0300		1011·5	—0·4	1011·9	81·5	75·9	72·8	28·0	+2·9	77	+1	3·6	+0·8	0	0	0	10	9	0	1	0	11
	1200		1007·9		1008·3	83·8	76·1	72·0	27·3		69		2·7		0	0	0	14	2	0	3	0	12
Khulna	0000	16	1009·1		1009·7	74·8	74·3	74·2	28·7		98		2·7		0	0	0	1	4	2	0	0	24
	0300		1011·2	—0·6	1011·8	80·5	77·5	76·2	30·9	+8·2	87	+21	3·6	+0·7	0	0	0	1	6	7	0	0	17
	1200		1007·2		1007·8	84·4	77·7	74·7	29·4		74		2·2		0	0	0	0	8	1	0	0	22
Satkhira	0000	16	1009·4		1010·0	74·7	73·4	72·7	27·5		94		1·9		0	0	0	0	2	0	0	0	29
	0300		1010·9	—0·5	1011·5	82·6	76·9	74·4	29·0	+6·1	77	+9	2·3	+0·4	0	1	0	1	0	14	0	0	15
	1200		1006·8		1007·4	*	*	*	*		*		3·0		0	0	0	2	3	11	0	0	15
Jessore (P. T.)	0000	26	1007·5		1008·5	73·1	72·0	71·3	26·4		95		3·0		1	0	0	0	19	3	0	0	8
	0300		1009·9	—1·4	1010·9	79·9	75·8	73·9	28·8	+6·6	83	+14	3·1	+0·6	0	0	1	1	11	16	1	0	1
	1200		1006·4		1007·3	85·9	76·0	71·2	26·1		61		2·3		1	0	0	0	21	1	1	0	7
RAJSHAHI DIVISION.																							
Pabna	0000	48	1007·2		1008·9	70·5	68·4	67·2	22·8		89		2·1		0	2	0	0	4	8	1	0	16
	0300		1009·0		1010·7	79·3	72·8	69·3	24·6	+3·8	74	+8	2·3		1	1	1	6	4	14	2	1	1
	1200		1004·4		1006·0	88·2	70·5	59·6	17·8		39		1·6		0	0	1	1	1	8	2	2	16
Ishurdi (†)	(c) 0000		×		×	68·2	66·3	65·0	21·2		90		2·5		0	1	3	6	14	1	2	1	0
	(c) 0300		×		×	79·9	71·6	66·1	22·7		66		2·5		1	2	1	3	8	9	4	0	0
	(c) 1200		×		×	88·0	68·3	54·0	14·8		34		1·9		4	2	0	3	2	6	5	4	2
Sirajganj	0000	51	1007·0		1008·8	69·0	67·5	66·6	22·3		92		2·2		0	0	0	2	3	2	0	0	24
	0300		1009·3		1011·1	77·8	71·3	67·8	23·2		72		2·6		0	0	0	3	8	8	0	0	12
	1200		1004·5		1006·2	86·8	70·9	61·0	18·6		44		1·5		0	0	0	0	3	0	0	0	28
Rajshahi (R)	0000	73																					
	0300																						
	1200																						
Bogra (P. B. O.)	0000	65	1006·3		1008·6	66·3	64·1	62·3	19·5		88		2·3		0	0	4	4	0	5	0	0	18
	0300		1008·4	—1·1	1010·7	77·6	69·6	64·4	21·1	+3·0	66	+3	2·3	+0·3	0	2	5	9	1	9	4	0	1
	1200		1003·8		1006·0	88·1	69·1	55·3	15·7		35		1·8		0	1	4	2	0	4	12	1	7
Dinajpur	0000	123	1004·0		1008·4	64·9	60·2	56·1	15·7		76		1·2		×								
	0300		1006·2	—1·1	1010·5	76·0	64·5	55·1	15·5	—0·4	53	—6	1·2	—0·5	×								
	1200		1001·5		1005·8	87·3	67·9	50·4	14·5		31		0·6		×								
Rangpur	0000	113	1005·5		1009·6	64·5	61·2	58·4	16·9		82		1·9		4	2	4	2	7	1	0	0	11
	0300		1007·7		1011·7	74·6	67·4	62·5	19·8		69		2·5		1	11	6	5	2	6	0	0	0
	1200		1002·5		1006·4	84·6	69·5	59·1	17·8		45		1·4		1	2	3	0	0	6	8	0	11

* Data rejected. (R) Register not received. × Data not available. (†) Started from 4th March, 1961. (c) Observations for 28 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1961.

Division and Station.	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure. Station level reduced to Standard temperature and gravity.	Mean Pressure. Departure from normal.	Mean Pressure. Reduced to standard temperature and M. S. L. or Geopotential of 850/700 mbs pressure level in G. P.M.	Mean Temperature of the Air and Humidity. Dry bulb.	Mean Temperature of the Air and Humidity. Wet bulb.	Mean Temperature of the Air and Humidity. Dew point.	Mean Temperature of the Air and Humidity. Vapour pressure	Mean Temperature of the Air and Humidity. Departure from normal.	Mean Temperature of the Air and Humidity. Relative humidity.	Mean Temperature of the Air and Humidity. Departure from normal.	Total Cloud Amount. Mean amount.	Total Cloud Amount. Departure from normal.	Wind Direction Number of Observations From :— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas	oktas									
KASHMIR.																							
Jammu (×)	0300	1200																					
	1200																						
LAHORE DIVISION.																							
Lahore P.B.O.	0000	702	985·7		1010·8	58·4	53·7	48·9	12·0		72		1·9		4	4	0	0	0	1	0	6	16
	0300		987·1	—0·4	1012·1	62·4	55·5	48·7	11·9	+0·4	62	+3	2·9	+0·2	5	2	0	0	0	0	0	4	20
	1200		985·3		1009·4	80·1	61·1	42·8	9·9		28		3·6		0	0	0	1	0	0	5	14	11
Lahore (Cantt.)	0000	709	985·1		1010·2	58·0	54·4	50·8	12·8		78		1·7		11	2	0	0	0	0	0	7	11
	0300		986·6	...	1011·5	62·7	56·8	51·6	13·1	...	68	...	2·9	...	7	1	3	0	0	1	1	8	10
	1200		985·0		1009·1	79·7	63·0	48·6	12·2		35		3·7		4	2	0	1	0	0	1	22	1
Lahore (Walton)	0000	699	985·2		1010·2	57·9	53·5	48·8	12·1		74		1·7		3	3	0	1	0	0	1	11	12
	0300		987·0	...	1011·9	61·6	55·7	50·1	12·5	...	67	...	2·9	...	4	1	0	1	0	0	0	9	16
	1200		984·9		1009·0	79·9	62·2	46·2	11·1		32		3·6		1	3	0	1	0	0	4	21	1
Sialkot	0000	830	(b) 981·0		(g) 1010·5	(g) 59·6	(g) 53·4	(g) 47·2	11·3		65		(b) 0·8		0	0	0	0	0	0	0	0	(d) 27
	0300		(a) 982·5	—0·6	(a) 1011·8	(a) 62·7	(a) 54·6	(a) 46·3	11·1	—1·4	67	—10	0·9	—1·3	0	6	0	2	0	0	0	9	14
	1200		980·3		1008·8	77·8	63·0	51·0	13·0		40		2·8		0	0	0	0	0	1	0	1	(e) 26
RAWALPINDI DIVISION.																							
Jhelum	0000	767	983·1		1010·6	56·0	51·9	47·7	11·3		74		1·9		0	2	0	0	0	0	1	12	16
	0300		984·9	...	1012·3	59·6	53·4	47·2	11·2	...	64	...	3·2	...	1	1	0	0	0	1	1	13	14
	1200		982·9		1009·3	77·9	60·2	42·6	9·8		30		3·8		0	1	0	1	1	2	6	13	7
Chakiala	0000	1667	953·5		1012·8	51·8	48·0	43·9	9·9		75		2·6		4	3	0	0	0	2	2	5	15
	0300		954·9	...	1013·8	55·6	50·4	45·1	10·4	...	69	...	3·2	...	2	1	0	0	1	3	3	5	16
	1200		953·2		1010·0	73·4	57·0	40·9	9·2		32		4·4		1	3	0	0	1	2	19	4	1
Rawalpindi	0000	1675	953·5		1013·1	52·4	48·5	44·7	10·1		75		2·2		5	2	0	0	2	0	2	1	19
	0300		954·3	—0·5	1013·5	56·4	50·7	45·0	10·3	—0·4	66	+7	3·1	+0·1	3	1	0	0	1	5	2	0	19
	1200		953·0		1010·2	72·8	56·8	41·4	9·3		34		4·2		0	4	0	0	2	6	12	7	0
Campbellpur	0300	1175	972·0	...	1014·0	57·3	51·4	44·8	10·3	...	64	...	1·2	...	1	3	1	1	1	0	2	1	21
	1200		970·1		1010·4	75·3	57·9	41·2	8·6		28		1·4		11	4	2	1	1	0	0	5	7
SARGODHA DIVISION.																							
Khushab	0000	616	(c) 989·7		(c) 1011·8	57·5	52·5	47·6	11·3		69		0·6		0	1	11	2	0	0	1	0	16
	0300		990·9	—0·3	1012·9	62·6	55·1	47·7	11·4	+0·7	59	+3	1·8	—1·0	1	0	12	0	1	0	1	0	16
	1200		988·7		1010·0	79·5	61·6	44·9	10·6		31		2·4		0	0	6	3	0	1	2	1	18
Sargodha P.A.F.	0000	617	989·0		1011·1	56·2	52·4	48·3	11·7		76		2·5		9	2	5	0	0	1	1	2	11
	0300		990·6	...	1012·5	60·9	55·1	49·2	12·3	...	66	...	3·7	...	2	2	0	0	0	2	4	3	18
	1200		988·8		1010·0	78·6	61·8	45·7	11·6		35		4·5		5	2	4	1	3	1	4	7	4

1(Met)2 (g) Data not available. (a) Mean for 30 days. (b) Mean for 29 days. (c) Mean for 28 days. (d) Mean for 22 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1961.

Division and Station.	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure. Station level reduced to standard temperature and gravity.	Mean Pressure. Departure from normal.	Mean Pressure. Reduced to standard temperature and M.S.L. or Geopotential of 850/700 mbs. pressure level in G.P.M.	Mean Temperature of the Air and Humidity. Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount. Mean amount.	Departure from normal.	Wind Direction Number of Observations From :— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas	oktas									
SARGODHA DIV.—Contd.																							
Mainwali	0000	679	987·6		1012·1	55·1	51·0	46·6	10·9		74		1·8		3	1	0	1	0	0	0	0	26
	0300		989·0	...	1013·3	59·5	53·6	48·0	11·5	...	65	...	2·7	...	2	1	0	0	0	0	0	0	28
	1200		985·9		1009·3	76·8	60·7	45·9	10·9		35		2·8		0	2	0	2	0	0	0	1	26
Lyallpur	0000	605	(a) 989·6		(a) 1011·3	57·2	53·0	48·6	11·8		74		1·3		2	3	0	0	0	0	1	6	19
	0300		(a) 990·7	—0·2	*	*	*	*	...	...	...	...	2·0	—1·1	3	4	0	0	0	0	2	3	19
	1200		(a) 989·1		(a) 1010·0	79·7	61·8	45·9	10·8		31		2·4		5	1	1	0	0	1	3	8	12
MULTAN.																							
Montgomery	0000	558	990·5		1010·5	58·2	53·4	48·5	11·8		71		0·4		3	3	0	0	0	4	0	1	20
	0300		992·3	—0·2	1012·1	63·8	55·6	47·5	11·4	—1·2	57	—10	1·7	—0·4	1	3	0	3	1	5	1	3	14
	1200		990·5		1009·7	81·0	61·2	41·9	9·5		26		1·5		0	3	0	3	0	7	0	8	10
Multan P. B. O.	0000	404	996·6		1011·3	59·3	52·7	45·5	10·6		61		2·1		6	1	2	0	0	0	0	2	20
	0300		998·4	...	1013·0	61·8	54·1	46·1	10·8	...	58	...	4·1	...	3	4	1	2	0	0	0	1	20
	1200		995·6		1009·5	82·9	60·4	37·2	7·8		21		4·1		6	0	6	12	1	1	0	0	5
Multan Surface	0300	413	998·1	+0·2	1012·8	63·8	56·0	48·7	11·8	—1·5	59	—3	3·5	+1·3	4	0	4	1	4	0	0	0	18
	1200		994·9		1009·1	82·7	62·8	45·5	10·6		27		3·9		2	0	6	1	6	0	1	0	15
Leiah	0000	487	*		*	*	*	...	...		...		2·3		3	5	3	3	5	6	0	6	0
	0300		*	...	*	*	*	...	...	...	...	...	3·3	...	6	4	1	3	5	8	1	3	0
	1200		*		*	81·0	62·6	45·7	11·1		30		3·4		3	4	2	3	6	5	1	7	0
BAHAWALPUR.																							
Khanpur (P.B.O.)	0000	290	999·8		1010·3	59·1	52·2	45·7	10·3		60		1·1		4	12	1	0	0	1	2	0	11
	0300		1002·0	...	1012·4	63·9	55·1	46·3	10·9	...	54	...	3·0	...	8	12	1	1	0	3	0	0	6
	1200		998·3		1008·3	87·1	62·2	37·6	7·9		18		3·4		2	13	0	0	1	3	5	0	7
Bahawalpur	0300	384	998·5	—0·4	1012·1	64·8	55·2	46·0	10·6	—1·6	51	—10	2·5	+0·6	8	8	2	3	1	1	0	1	7
	1200		996·4		1009·6	86·0	64·2	45·2	10·7		24		2·4		2	8	0	0	1	0	0	5	15
Fort Abbas	0000	475	*		*	*	*	*	...		...		0·1		13	4	1	1	1	2	1	5	3
	0300		995·5	...	1012·3	64·7	55·6	45·9	11·0	...	52	...	0·2	...	4	5	9	4	0	1	1	0	7
	1200		(a) 993·1		(a) 1009·3	84·2	63·7	45·7	10·9		27		0·6		13	6	1	1	1	2	1	3	3
PESHAWAR.																							
Chakdara	0000	2197	935·4		1013·3	50·4	46·2	41·7	9·0		72		1·5		23	0	1	0	0	0	7	0	0
	0300		936·4	...	1013·6	53·1	48·1	44·1	9·4	...	68	...	1·8	...	23	0	1	0	1	0	3	0	3
	1200		934·1		1008·8	69·1	55·8	43·4	9·9		41		2·6		3	0	1	0	13	0	10	0	4
Peshawar P. A. F	0000	1177	970·8		1012·9	54·4	49·0	42·2	9·5		65		3·0		0	1	0	5	12	2	1	3	7
	0300		972·3	—0·7	1014·2	57·6	51·7	44·9	10·5	—0·4	65	—4	3·6	—0·6	0	0	1	2	6	6	5	1	10
	1200		970·1		1010·7	72·9	58·0	42·3	9·8		35		4·5		6	1	1	1	3	0	1	9	8
Risalpur	0000	1047	974·8		1012·1	52·9	50·0	46·7	10·9		80		3·1		0	1	0	0	1	4	9	5	11
	0300		976·2	...	1013·3	56·0	52·0	47·8	11·4	...	75	...	3·4	...	0	1	0	0	0	5	8	3	14
	1200		974·1		1010·0	73·0	59·8	47·0	11·6		42		4·2		2	3	0	1	0	3	8	6	8
Haripur	0300	1757	951·4	...	1013·2	57·8	52·3	47·7	11·2	...	68	...	2·8	...	0	3	0	5	0	21	0	2	0
	1200		950·3		1010·2	73·5	59·9	49·5	12·1		42		3·1		0	1	1	9	0	16	0	4	0
Kohat	0000	1683†	953·7	...	1012·8	58·4	49·0	38·0	8·1	...	47	...	2·4	...	6	2	0	0	0	0	0	19	4
	0300		955·2		1014·2	59·9	49·9	38·1	8·3		47		3·7		6	1	0	0	1	0	1	15	7
	1200		953·4		1010·8	73·2	55·5	36·6	7·9		28		4·1		3	11	3	4	1	2	1	0	6

(*) Data rejected. (a) Mean for 30 days. (†) Hb. changed to 1683' w. e. f. 4-3-61.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1961.

Division and Station.	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure. Station level reduced to standard temperature and gravity.	Mean Pressure. Departure from normal.	Mean Pressure. Reduced to standard temperature and M.S.L. or Geopotential of 850/700 mbs. pressure level in G.P.M.	Mean Temperature of the Air and Humidity. Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount. Mean amount.	Departure from normal.	Wind Direction Number of Observations From :— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas	oktas									
D. I. KHAN.																							
Bannu	0000	1263	967·1		*	*	*	*	*		*		1·3		0	0	0	0	0	0	0	7	24
	0300		968·2	...	1013·0	58·2	53·2	47·6	11·6	+1·8	70	+15	1·7	—0·7	1	1	0	0	0	1	7	11	10
	1200		966·2		1009·5	75·8	*	*	*		*		2·8		5	0	1	12	7	1	0	3	2
D. I. Khan	0000	570	990·6		1011·1	58·2	55·5	53·3	13·8		83		1·2		1	0	0	0	0	0	0	1	29
	0300		(a) 992·3	—0·5	(a) 1012·7	61·5	57·6	54·2	14·5	+2·4	77	—14	2·5	—0·1	0	0	0	0	0	2	0	3	26
	1200		(b) 989·5		(b) 1009·1	80·6	*	*	...		...		3·3		4	2	1	3	1	0	0	1	19
QUETTA.																							
Sibi	0000	441	995·2		1011·0	66·2	54·0	41·1	8·8		43		1·7		3	0	0	0	0	8	2	4	14
	0300		996·9	+1·5	1012·6	66·3	54·5	41·9	9·3	+1·1	43	+4	3·8	+2·0	4	4	1	0	0	2	0	5	15
	1200		993·5		1008·6	88·2	65·3	45·6	11·2		32		4·6		1	4	0	2	8	8	4	1	3
KALAT.																							
Nokkundi	0000	2229	934·4		1011·4	61·5	49·4	34·9	7·2		40		0·8		10	5	3	0	1	0	2	8	2
	0300		936·3	...	1013·6	60·8	49·7	37·2	7·7	—0·7	43	—3	0·8	—1·5	5	9	7	0	1	2	3	4	0
	1200		933·7		1007·5	82·0	59·4	37·7	8·2		23		1·1		4	0	3	3	3	3	4	9	2
Turbat	0000	510	992·6		1010·6	68·9	59·6	50·1	13·2		54		0·5		1	0	1	1	0	1	0	0	27
	0300		994·4	...	1012·4	70·2	59·8	49·4	12·9	...	52	...	1·3	...	0	2	5	0	0	0	3	0	21
	1200		991·3		1008·5	91·9	65·8	41·9	9·9		19		1·7		2	1	1	0	2	6	18	1	0
Jiwani	0000	185	1004·9		1011·4	70·3	66·6	63·3	20·6		82		2·8		1	1	1	3	0	0	15	3	7
	0300		1006·5	...	1013·0	71·6	67·2	63·4	20·8	...	79	...	4·1	...	2	1	3	2	0	1	9	3	10
	1200		1004·5		1010·9	80·2	68·4	60·4	18·4		54		3·7		1	0	0	2	6	12	10	0	0
Pasni	0000	28	1009·9		1010·9	69·3	66·2	63·5	20·6		84		0·3		2	2	1	0	1	1	12	5	7
	0300		1011·1	—0·9	1012·2	69·3	65·4	62·6	19·6	+2·1	84	+5	3·4	+2·0	1	2	1	1	0	2	10	5	9
	1200		1009·1		1010·1	82·0	72·6	67·3	23·1		63		3·0		1	1	1	3	4	14	6	1	0
KARACHI FEDERAL TERRITORY.																							
Ormara	0000	15	1010·0		1010·5	71·2	69·0	67·0	23·3		89		3·6		0	0	0	0	0	5	13	2	11
	0300		1011·8	...	1012·3	72·0	69·0	66·7	22·9	+3·4	87	+4	4·5	+2·3	0	0	0	1	0	1	7	2	20
	1200		1009·1		1009·6	82·0	72·4	66·5	22·9		62		3·3		0	0	0	1	0	6	20	1	3
Las Bela	0000	292	*		*	69·3	60·4	52·5	13·9		58		1·0		*								
	0300		1003·2	+0·7	1013·5	71·1	61·9	53·9	14·8	—1·1	57	—12	0·9	—0·9	*								
	1200		999·4		1009·2	91·2	70·9	56·7	16·7		34		1·5		*								
Karachi (Manora)	0000	13	1010·0		1010·6	70·8	66·7	64·1	20·5		80		4·1		2	3	1	0	0	2	11	5	7
	0300		1011·5	—0·7	1012·0	72·7	68·7	66·4	22·2	+2·8	81	+5	3·7	+1·7	1	1	1	0	0	1	13	3	11
	1200		1009·2		1009·6	79·8	74·1	71·3	26·3		76		3·8		0	0	0	0	0	6	21	4	0
Karachi (Mauripur)	0000	52	1008·4		1010·2	70·3	66·3	63·1	20·2		81		1·7		3	0	0	0	0	4	7	4	15
	0300		1010·0	...	1011·8	69·8	65·9	62·9	20·0	...	81	...	3·5	...	1	1	1	0	0	0	7	4	17
	1200		1007·9		1009·6	83·6	69·4	59·1	18·1		49		3·0		0	0	0	0	0	14	11	6	0
Karachi (City)	0300	20	1011·1	...	1011·8	72·3	68·4	65·6	22·0	...	81	...	3·3	...	1	3	1	0	0	4	11	7	4
	1200		1008·4		1009·1	82·3	74·7	70·2	25·9		70		3·0		0	0	0	0	0	16	14	1	0

(*) Data rejected. (a) Mean for 30 days. (b) Mean for 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure. Station level reduced to standard temperature and gravity.	Mean Pressure. Departure from normal.	Mean Pressure. Reduced to standard temperature and M.S.L. or Geopotential of 850/700 mbs. pressure level in G.P.M.	Mean Temperatures of the Air and Humidity. Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount. Mean amount.	Departure from normal.	Wind Direction Number of Observations From :— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas	oktas									
Karachi PAF (x)	0000	38																					
	0300																						
	1200																						
Karachi Air Port	0000	73	1007·7		1010·4	68·3	64·6	61·8	19·1		81		1·3		0	0	0	0	0	1	7	1	22
	0300		1009·7	...	1012·4	69·7	65·4	62·3	19·6	...	79	...	3·7	...	0	0	0	0	0	0	7	2	22
	1200		1007·0		1009·5	85·3	70·2	59·4	18·4		46		3·7		0	0	0	0	2	17	11	1	0
Gadap	0300	...		...		71·4	64·8	60·1	18·0	...	69	...	3·1	...	9	2	0	0	0	7	7	4	2
	1200					87·6	67·0	51·3	13·3		30		3·3		0	0	0	0	0	15	15	1	0
HYDERABAD.																							
Mithi	0000	96	1006·7		1010·1	66·4	62·8	60·4	17·9		80		0·3		0	0	0	0	0	1	0	1	29
	0300		1008·1	...	1011·4	68·9	64·9	62·3	19·2	...	62	...	0·9	...	0	0	0	0	0	4	1	2	24
	1200		1005·1		1008·3	94·6	78·0	69·3	25·2		46		0·4		1	0	0	0	0	6	2	9	13
Nagarparkar	0000	178	1002·9		1009·0	75·5	63·7	53·5	14·8		50		0·0		1	0	0	0	0	0	6	14	10
	0300		1005·0	...	1011·1	77·1	64·4	53·9	15·0	...	46	...	0·0	...	4	0	0	0	0	1	2	10	14
	1200		1001·8		1007·6	95·7	72·4	55·1	16·6		30		0·0		6	1	1	2	2	4	3	7	5
Umarkot	0000	55	1006·8		1008·7	64·7	60·9	57·7	16·5		79		2·9		0	0	0	1	9	9	0	1	11
	0300		1009·0	...	1011·0	69·8	64·0	59·3	17·8	...	72	...	4·4	...	1	2	0	0	9	8	1	0	10
	1200		1005·7		1007·5	94·4	76·1	65·9	22·4		41		5·0		2	1	0	0	2	8	6	10	2
Chhor	0000	19	1008·6		1009·3	61·9	55·0	48·1	11·7		62		1·5		0	0	1	0	0	3	0	0	27
	0300		1010·8	...	1011·5	67·1	58·8	50·9	13·2	...	59	...	2·8	...	1	1	1	1	1	10	0	0	16
	1200		1007·2		1007·8	93·5	64·8	37·3	8·0		15		3·7		2	0	0	0	1	11	10	3	4
Hyderabad	0000	98	1006·3		1009·9	67·7	58·9	50·6	13·0		55		1·5		6	0	0	0	0	6	2	2	15
	0300		1008·6	0·0	1012·1	68·9	58·9	49·4	12·5	—0·5	53	—2	3·7	+2·3	7	0	0	0	0	9	1	0	14
	1200		1005·2		1008·5	93·6	65·5	39·0	8·8		16		2·7		8	2	0	1	0	9	4	0	7
Badin	0000	31	*		*	*	*	*	*		*		0·2		0	0	0	1	0	28	0	2	0
	0300		1011·7	+0·7	1012·8	66·6	62·1	57·0	17·0	+0·1	76	+10	0·2	—1·0	0	0	0	0	0	30	0	1	0
	1200		1009·0		1010·0	95·9	67·4	45·0	10·0		18		0·3		0	0	0	0	0	19	0	12	0
KHAIRPUR.																							
Padidan	0000	153	1004·2		1009·7	61·2	54·8	48·6	11·8		64		1·9		8	1	1	1	0	2	2	2	14
	0300		1006·2	...	1011·7	64·2	56·2	48·5	11·8	...	58	...	3·4	...	8	2	3	2	1	2	0	6	7
	1200		1003·1		1008·4	89·0	64·9	43·7	10·2		23		3·4		6	3	0	2	7	1	3	6	3
Nawabshah	0000	124	1006·1		(a) 1010·8	(a) 62·0	(a) 54·1	(a) 46·2	10·8	...	57	...	1·6	...	1	0	0	0	2	0	0	2	20
	0300		1008·1	...	1012·5	64·7	56·1	48·1	11·5		56		2·8		1	0	0	0	2	1	0	5	22
	1200		1005·2		1009·5	91·4	65·5	42·6	9·8		20		3·5		6	0	0	0	0	4	2	10	9
Sukkur	0300	211	1003·6	—0·6	1011·4	65·8	56·1	46·5	11·0	—0·9	51	—2	4·1	+2·8	8	8	1	3	2	1	1	0	7
	1200		1000·6		1008·1	87·3	65·7	48·1	11·9		27		4·2		10	7	0	3	1	3	2	3	2
Kashmore	0000	255	1001·8		1010·9	60·2	47·9	30·5	5·9		32		1·6		0	3	0	0	0	0	0	0	28
	0300		1003·2	...	1012·3	66·7	53·2	34·6	7·8	...	33	...	1·7	...	(a) 2	12	0	0	0	0	0	0	16
	1200		1001·1		1009·6	91·5	62·8	34·0	6·6		15		2·3		0	9	0	0	0	2	3	0	17
Jacobabad	0000	183	1003·4		1010·0	65·4	54·7	42·4	9·8		45		2·2		2	4	5	2	2	0	0	4	12
	0300		1005·5	+0·1	1012·0	66·5	54·5	41·3	9·1	—3·4	42	—13	3·5	+1·7	2	6	4	4	3	0	1	6	5
	1200		1002·1		1008·4	89·4	64·1	39·5	9·0		19		3·9		0	2	9	4	4	3	4	3	2
JUNAGADH.																							
Veraval	(x) 0000	26																					
	0300		(g)* 1011·5	...	(g) 1012·5	*	*						0·2	...	(c) 14	1	0	0	0	0	1	3	5
	1200		(c) 1008·8		(c) 1009·8	*	*						0·0		(c) 4	1	0	0	1	0	8	2	0

(a) Mean for 30 days. (x) Data not available. (*) Data rejected. (g) Mean for 24 days. (c) Mean for 16 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1961.

Division and Station.	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure. Station level reduced to standard temperature and gravity.	Mean Pressure. Departure from normal.	Mean Pressure. Reduced to standard temperature and M.S.L., or Geopotencial of 850/700 mbs pressure level in G.P.M.	Mean Temperature of the Air and Humidity. Dry bulb.	Mean Temperature of the Air and Humidity. Wet bulb	Mean Temperature of the Air and Humidity. Dew point.	Mean Temperature of the Air and Humidity. Vapour pressure.	Mean Temperature of the Air and Humidity. Departure from normal.	Mean Temperature of the Air and Humidity. Relative humidity.	Mean Temperature of the Air and Humidity. Departure from normal.	Total Cloud Amount. Mean amount.	Total Cloud Amount. Departure from normal.	Wind Direction Number of Observations From :— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas	oktas									
ARABIA.																							
Muscat (x)	0300	20																					
	1200																						
AFGHANISTAN.																							
Jalalabad (x)	0000	1950																					
	0300																						
	1200																						
HILL STATIONS.																							
KASHMIR																							
Srinagar (x)	0000																						
	0300	...																					
	1200																						
Gulmarg (x)	0300	...																					
	1200																						
Gurez (x)	0300	...																					
	1200																						
Sonamarg (x)	0300	...																					
	1200																						
Dras (x)	0300	...																					
	1200																						
Kargil (x)	0300	...																					
	1200																						
Leh (x)	0000																						
	0300	...																					
	1200																						
Skardu (x)	0000	7250																					
	0300																						
	1200																						
Misgar	0000	10190	...		...	...	...	...	...		...		...		...	...	...	...	...	...	...	...	...
	0300		697·6	...	3077·4	27·3	24·3	19·1	3·5	...	70	...	2·8	...	1	0	4	2	0	1	5	3	15
	1200		695·9		3055·5	40·5	32·2	18·6	3·6		44		3·9		0	4	6	9	0	6	3	3	0
Aliabad (x)	0300	...																					
	1200																						
Gilgit (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113																					
	0300		783·6	—0·3	1495·9	43·6	36·4	25·2	4·8	—0·8	50	—3	3·7	+0·1	0	4	5	8	0	0	2	9	3
	1200		783·5		1486·7	49·9	41·8	31·5	6·1		50		5·0		0	0	2	8	1	5	2	6	7
PESHAWAR.																							
Drosh	0000	4806	854·3		1505·8	45·2	40·9	34·1	7·0		68		3·1		0	2	2	1	0	1	0	0	25
	0300		855·6	+0·3	1518·2	44·1	40·2	33·9	6·9	+0·6	69	+2	4·0	+0·2	0	1	1	0	0	1	0	0	28
	1200		852·6		1489·5	59·1	49·4	37·0	8·1		47		5·5		1	4	0	3	0	5	1	0	17
Chitral	0000	4272	(a) 867·3		(a) 1468·3	(a) 50·9	(a) 42·6	(a) 29·9	6·0		48		2·5		9	9	0	1	0	0	0	11	1
	0300		869·4	—0·6	(a) 1488·7	(a) 53·9	(a) 44·8	(a) 32·1	6·5	—0·5	46	—10	2·2	—0·9	16	3	0	0	0	0	0	11	1
	1200		866·9		(a) 1466·4	(a) 61·0	(a) 50·0	(a) 36·9	7·9		43		3·8		16	6	0	0	0	0	0	8	1

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1961.

Division and Station.	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure. Station level reduced to standard temperature and gravity.	Mean Pressure. Departure from normal.	Mean Pressure. Reduced to standard temperature and M.S.L. or Geopotential of 850/700 mbs pressure level in G. P. M.	Mean Temperature of the Air and Humidity. Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount. Mean amount.	Departure from normal	Wind Direction Number of Observations From :— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas	oktas									
PESHAWAR—Contd.																							
Kakul	0000	4214	870·9		1483·7	49·6	43·5	35·5	7·1		60		3·2		9	7	4	3	1	0	2	5	0
	0300		872·1	...	1496·0	52·1	45·3	36·8	7·6	...	56	...	3·7	...	10	0	0	3	2	1	1	13	1
	1200		870·9		1489·0	61·9	50·1	36·7	7·6		39		4·6		2	0	1	3	5	8	5	7	0
Balakot (R)	0000	3226																					
	0300																						
	1200																						
Landikotal	0000	3503	892·9		1471·3	47·7	42·9	36·2	7·5		66		2·6		0	0	0	0	0	9	0	0	22
	0300		894·2	...	1484·3	49·7	43·8	35·5	7·4	...	61	...	3·5	...	0	0	0	0	0	7	0	0	24
	1200		892·5		1480·6	63·5	50·7	35·3	7·6		37		4·3		0	1	0	1	0	24	0	0	5
Parachinar*	0000	5673	*		*	*	*	*	...		...		1·2		3	0	0	1	0	0	0	1	26
	0300		*		*	*	*	*	...	...	...	...	1·5	—1·8	1	2	0	2	0	0	0	0	26
	1200		*		*	*	*	*	...		...		3·5		2	0	0	18	1	5	0	1	4
D. I. KHAN.																							
Miranshah (Surface)	0000	3026	909·8		1481·0	49·9	41·4	27·8	5·5		45		1·2		0	2	[illegible]	0	0	0	0	0	29
	0300		910·5	...	1492·6	54·6	46·9	36·5	7·8	+0·4	55	—4	2·0	—0·5	0	1	0	0	0	0	0	1	29
	1200		907·9		1483·7	69·4	54·1	38·2	8·2		34		2·7		0	0	0	0	0	0	0	2	29
Wana	0300	4503	862·6	...	1493·0	50·3	43·8	35·0	7·1	+0·4	57	—10	3·5	+0·9	0	0	0	0	1	1	2	1	26
	1200		860·5		1477·6	64·2	50·8	34·7	7·3		35		4·9		0	2	0	1	1	4	1	3	19
QUETTA.																							
Fort Sandeman (P. T.)	0300	4514	860·5	+0·9	1507·1	51·2	42·0	27·5	5·4	—1·1	42	—25	3·2	+0·9	0	2	1	6	4	4	3	2	[illegible]
	1200		858·2		1485·9	69·1	49·8	21·3	4·5		20		4·9		4	3	1	3	3	6	5	6	0
Fort Sandeman (P. B. O.)	0000	4615	859·4		1496·3	50·0	42·5	32·0	6·3		52		2·6		1	3	1	1	7	3	2	1	12
	0300		860·6	...	1508·6	52·3	43·8	32·4	6·3	...	48	...	3·9	...	1	2	0	2	5	9	3	1	8
	1200		257·9		1484·6	68·3	51·1	28·8	5·7		27		5·2		3	2	0	2	0	8	11	2	3
Hindubagh	0000	5909	819·4		1497·1	45·6	38·4	28·6	5·4		52		*		0	0	0	0	0	5	13	0	13
	0300		819·7	...	1498·5	46·3	39·4	30·0	5·8	...	53	...	*	...	0	0	2	0	0	6	11	0	12
	1200		817·6		1468·6	62·8	48·2	32·2	6·3		33		*		0	0	3	2	0	8	15	2	1
Loralai	0000	4699	855·2		1479·5	47·6	41·9	34·0	6·7		60		2·5		0	0	0	0	0	0	20	4	7
	0300		856·3	...	1492·1	48·2	42·3	34·3	6·9	...	59	...	3·4		0	0	0	0	0	4	12	7	8
	1200		854·0		1471·8	69·0	56·9	46·5	10·9		46		4·4		1	1	0	11	2	7	0	9	0

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1961.

Division and Station.	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure. Station level reduced to standard temperature and gravity.	Mean Pressure. Departure from normal.	Mean Pressure. Reduced to standard temperature and M.S.L. or Geopotential of 850/700 mbs. pressure level in G. P. M.	Mean Temperature of the Air and Humidity. Dry bulb.	Mean Temperature of the Air and Humidity. Wet bulb.	Mean Temperature of the Air and Humidity. Dew point.	Mean Temperature of the Air and Humidity. Vapour pressure.	Mean Temperature of the Air and Humidity. Departure from normal.	Mean Temperature of the Air and Humidity. Relative humidity.	Mean Temperature of the Air and Humidity. Departure from normal.	Total Cloud Amount. Mean amount.	Total Cloud Amount. Departure from normal.	Wind Direction Number of Observations From :— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
QUETTA—Contd.	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas	oktas									
Harnai	0300												*		*								
	1200												*		*								
Quetta Sumungli	0000	5213	840·5		1494·8	44·6	40·1	34·6	6·8		69		3·1		1	1	7	8	1	1	1	0	11
	0300		841·7	...	1506·8	45·8	41·2	35·7	7·2	...	68	...	4·6	...	0	0	6	9	1	1	1	1	12
	1200		839·6		1483·2	65·0	51·2	36·6	8·0		39		5·8		2	0	0	4	3	4	9	8	1
Quetta P. T.	0300	5490	832·7	—1·0	1498·3	50·3	44·3	37·8	7·8	—1·3	62	—5	3·8	—1·1	3	3	0	3	14	2	0	1	5
	1200		831·3		1480·3	64·4	54·4	45·5	10·9		54		4·9		2	0	0	1	10	1	9	6	2
Quetta P. B. O.	0000	5560	830·4		1536·5	46·5	38·9	28·7	5·4		52		2·4		1	1	0	0	1	1	0	0	27
	0300		831·1	...	1542·1	49·7	40·5	27·7	5·3	...	44	...	3·7	...	0	3	3	6	1	4	1	1	12
	1200		830·8		1533·1	64·3	47·3	28·0	5·1		28		4·7		0	0	0	2	0	16	1	7	3
Chaman	0000	4311	867·7		1484·6	53·2	43·1	28·3	5·5		41		3·4		0	1	10	12	2	2	2	0	2
	0300		869·1	—0·3	1499·0	55·4	44·6	29·1	5·8	—0·9	40	—14	4·0	+1·0	0	3	10	7	3	2	2	1	3
	1200		867·1		1483·8	67·6	49·3	26·2	4·7		24		4·9		3	0	2	1	1	6	14	2	2
Nushki	0000	3416	*		*	(a) 57·4	(a) 46·3	(a) 33·0	6·3		38		(a) 1·5		(a) 0	2	18	0	0	0	0	1	9
	0300		903·8	...	1550·0	63·2	50·7	36·4	7·7	...	38	...	2·5	...	0	3	18	1	2	0	1	1	5
	1200		901·4		1543·4	75·2	57·5	41·7	9·0		30		4·0		0	0	0	2	2	10	8	7	2
Dalbandin	0000	2785	916·5		1475·2	56·1	44·8	28·3	5·6		37		2·5		2	6	4	0	0	1	2	2	14
	0300		918·1	—0·1	1489·2	55·9	44·4	26·4	5·4	—2·6	36	—17	3·5	+1·2	1	9	3	2	0	1	2	2	11
	1200		915·4		1492·9	79·2	55·7	27·7	5·7		17		4·5		0	2	1	2	4	11	4	3	4
KALAT.																							
Kalat (R)	0000	6616																					
	0300																						
	1200																						
Panjgur	0000	3177	904·7		1488·1	57·3	48·9	38·9	8·4		53		3·0		2	25	0	0	0	3	0	1	0
	0300		906·0	+0·9	1499·2	57·2	49·0	39·5	8·5	—0·2	54	—9	3·3	+1·8	3	21	0	0	3	3	1	0	0
	1200		903·9		1500·7	77·7	55·7	30·9	6·3		21		4·1		6	0	0	2	0	18	1	4	0
EXTRA PAKISTAN.																							
AFGHANISTAN.																							
Kabul	0300	5955	*		*	41·7	39·2	36·3	7·2	+2·5	81	+15	2·9	—0·6	1	3	0	8	0	12	0	7	0
	1200		*		*	50·1	45·6	41·2	8·8		73		3·9		2	2	0	8	1	7	0	11	0
Kandahar	0300	3462	896·2	...	1492·4	51·5	45·0	36·5	7·6	...	58	...	3·4	...	1	4	6	1	0	2	1	0	16
	1200		894·0		1496·0	68·3	53·3	35·8	7·8		33		3·7		2	1	2	0	1	10	6	0	9

(X) Data not available. (a) Mean for 30 days. (R) Register not received. (*) Data rejected.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MARCH, 1961.

Division and Station.	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (Inches).						Wind Velocity (Knots).		Weather Number of Days.				
																			Visibility Code Figure 93 or Less.		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	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.	Thunder heard.	Hail.	Fog.	Haze (dust)	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
CHITTAGONG DIVISION.																					
Rangamati	92·0		99	16	68·2		57	10	0·73		0·70	22	1				6	0	12	0	0
Cox's Bazar (P.T.)	86·1	—0·2	89	11,25,30	71·3	+6·9	63	10	0·10	—1·39	0·07	4	0	—1·5	x	...	0	0	0	0	0
Chittagong (Patenga)	86·2		90	11	72·0		64	10	0·50		0·30	26	2		x	...	2	0	2	0	0
Chittagong (P.T.)	86·4	—0·7	92	11	71·6	+4·4	64	10	0·68	—1·78	0·44	26	2	—0·5	x	...	1	0	4	0	0
Maijdee Court	87·0	+0·4	92	16	73·1	+2·6	66	10,31	0·55	—1·82	0·45	7	1	—2·1	x	...	0	0	6	0	0
Comilla	90·3	+0·6	95	5 days.	72·4	+5·3	65	9,10	0·79	—2·22	0·50	19	3	—0·5	x	...	2	0	1	0	0
Brahmanbaria	89·7	—0·3	93	6 days.	69·6	+5·6	59	22	1·22	—1·81	0·64	4	3	—0·7	5·2	...	5	0	0	0	0
Sylhet (P. B. O.) R	x																				
Srimangal	88·6	—1·6	93	18	67·9	+6·4	58	9,10	13·38	+9·99	2·73	7	14	+9·1	5·1	+1·8	0	0	0	0	0
DACCA DIVISION.																					
Mymensingh	90·1	+2·1	97	26	68·6	+3·9	62	1,10	2·40	+0·56	0·97	7	4	+1·0	x		4	0	2	0	0
Jamalpur (R)																					
Narayanganj	91·7	+1·9	97	25	72·7	+4·6	62	9	1·94	—0·45	1·55	20	2	—1·2	3·9	+1·1	5	0	4	0	0
Dacca (Tejgaon)	91·5		97	25	71·7		60	9	1·53		0·46	20	4		6·2		11	0	3	0	0
Faridpur	91·9	+2·6	97	26	70·5	+4·7	59	9	1·20	—0·90	0·61	7	3	+0·1	3·5	+0·2	3	0	5	0	0
KHULNA DIVISION.																					
Barisal	90·0	+0·4	94	25	73·2	+4·4	68	9,10,31	1·97	—0·08	1·57	23	4	+0·9	x		3	0	6	0	0
Khulna	91·5	—0·1	96	25	74·0	+5·6	69	22	0·77	—0·87	0·55	22	2	—0·3	2·5	—0·5	0	0	0	0	0
Satkhira	93·2	—0·5	98	25	74·6	+6·7	70	9	1·48	—0·36	0·90	22	2	—0·5	(c)2·2	+0·1	0	0	2	0	0
Jessore (P. T.)	92·2	+0·3	97	15	71·7	+6·9	61	9	1·96	+0·03	1·20	22	3	+0·1	5·3	+3·5	0	0	3	0	0
RAJSHAHI DIVISION.																					
Pabna	94·9	+2·6	99	25,26	70·0	+6·4	59	9	0·00	—1·21	0·00	0	0	—1·9	x		0	0	0	0	2
Ishurdi (C)	94·9		99	20,25,26	66·2		54	9	(c)0·00	...	0·00	...	...	...	x		2	0	2	0	1
Sirajganj	93·2		99	25,26	66·6		58	9,10	0·15	—1·13	0·15	6	1	—1·1	2·9		1	0	4	0	3
Rajshahi (R)																					
Bogra (P. B. O.)	93·8	+3·1	101	25,26	65·2	+2·2	55	4	0·04	—1·10	0·04	7	0	—2·0	2·9	+1·1	3	0	0	0	0
Dinajpur	92·6	+3·4	101	26	63·4	+2·5	54	8	0·00	—0·69	0·00	0	0	—1·4	x		1	0	0	0	0
Rangpur	89·4		100	26	62·7		55	1,8	0·40	—0·60	0·28	17	1	—0·5	2·9		4	0	0	0	0

(R) Register not received. (C) Mean for 28 days. (x) Data not available.

TABLE III—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MARCH, 1961.

Division and Station.	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (Inches).						Wind Velocity (Knots).		Weather Number of Days.				
																			Visibility Code Figure 93 or Less.		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	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.	Thunder heard.	Hail.	Fog.	Haze (dust)	Dust Storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR.																					
Jammu (x)																					
LAHORE.																					
Lahore (P. B. O.)	(a) 82·5	—0·1	93	31	56·3	+3·1	49	3	0·42	—0·37	0·34	19	1	—0·9	2·5	+0·6	3	1	0	0	0
Lahore (Cantt.)	81·9	...	93	31	56·1	...	46	6	0·47	...	0·33	19	2	...	3·2	...	3	0	0	0	0
Lahore (Walton)	82·4	...	93	31	55·0	...	45	6	0·62	...	0·33	19	2	...	4·5	...	3	0	0	0	0
Sialkot	82·0	+1·9	91	31	(a) 55·6	+1·4	47	7	0·54	—0·97	0·35	19	2	—1·2	1·6	+0·1	0	0	0	0	0
RAWALPINDI.																					
Jhelum	81·1	...	92	31	53·4	...	41	6	1·40	...	0·74	24	5	...	2·6	...	2	1	0	0	0
Chaklala	75·9	...	89	31	49·3	...	36	6	0·83	...	0·33	19	3	...	5·7	...	3	0	0	0	0
Rawalpindi	75·7	+0·6	88	31	50·4	0·0	39	7	0·61	—2·06	0·27	25	2	—2·7	3·1	+0·8	3	0	0	0	0
Campbellpur	*	...	...	...	50·8	...	38	6,7	0·78	...	0·78	25	1	...	0·9	...	0	0	0	0	0
SARGODHA.																					
Khushab	82·3	+1·0	95	31	53·5	—2·3	44	8	0·08	—0·96	0·08	24	0	—2·5	2·5	—1·2	1	0	0	0	0
Sargodha	81·2	...	93	31	54·0	...	44	7	0·67	...	0·51	24	2	...	2·0	...	3	0	0	0	0
Mianwali	79·5	...	92	31	52·6	...	44	7,8	0·10	...	0·10	26	1	...	(x)	...	0	0	0	10	0
Lyallpur	80·9	—0·7	91	30,31	53·8	+0·2	43	8	0·10	—0·46	0·10	24	1	—0·6	1·7	—0·2	1	0	0	0	0
MULTAN.																					
Montgomery	83·6	—0·2	93	31	54·8	—1·2	47	17	0·10	—0·32	0·10	24	1	—0·3	(x)	...	2	0	0	0	0
Multan P. B. O.	85·5	...	94	31	56·4	...	47	7	0·31	...	0·20	18	2	...	2·5	...	2	0	0	0	1
Multan (s)	85·0	+1·1	93	31	59·0	+1·8	51	21	0·32	—0·08	0·20	24	2	+1·0	(x)	...	2	0	0	0	0
Leiah	89·2	...	93	31	50·3	...	40	4 days.	0·00	...	0·00	...	0	...	(x)	...	0	0	0	0	0
BAHAWALPUR.																					
Khanpur (P.B.O.)	89·3	...	99	4	56·2	...	49	6,7,20	0·00	...	0·00	...	0	...	3·9	...	0	0	0	0	0
Bahawalpur	88·2	+2·6	96	30,31	58·2	+3·0	50	6	0·00	—0·40	00·0	...	0	—0·9	2·5	—0·1	0	0	0	0	0
Port Abbas	86·4	...	97	30	56·4	...	46	6	0·00	...	0·00	...	0	...	(h) 1·4	...	0	0	0	0	0
PESHAWAR.																					
Chakdara	70·9	...	84	31	47·3	...	37	7	2·99	...	0·75	19	5	...	(x)	...	0	0	0	0	0
Peshawar	75·5	+0·7	87	31	51·2	—1·2	37	6	0·64	—1·60	0·55	25	1	—3·6	3·2	+1·4	1	0	0	0	1
Risalpur	75·1	...	86	31	49·6	...	36	6	1·30	...	1·20	25	1	...	3·3	...	0	0	0	0	2
Haripur	76·8	...	85	30	49·8	...	38	6	0·99	...	0·57	25	2	...	5·3	...	0	0	0	0	0
Kohat	75·1	...	87	31	54·9	...	44	6	0·65	—	0·45	25	2	...	5·8	...	3	0	0	0	0

(x) Data not available. (*) Data rejected. (a) Mean for 30 days. (h) Mean for 23 days.

TABLE III—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MARCH, 1961.

Division and Station.	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (Inches).						Wind Velocity (Knots).		Weather Number of Days.				
																			Visibility Code Figure 93 or Less.		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	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.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
D. I. KHAN.																					
Bannu	78·9	+0·9	88	31	(*)	...	...	...	0·50	—1·08	0·36	25	1	—2·7	2·3	...	1	0	0	0	0
D. I. Khan	83·4	+1·6	93	31	55·7	+0·7	46	7	1·00	+0·04	0·62	24	2	—0·3	1·0	—0·5	0	0	0	0	0
QUETTA.																					
Sibi	90·4	+4·4	98	3	61·2	+1·8	52	18	0·00	—0·32	0·00	0	0	—0·9	2·8	—0·3	1	0	0	0	0
KALAT.																					
Nokkundi	84·9	+6·8	94	10	56·4	+4·6	38	5	0·02	—0·10	0·02	15	0	—0·6	x	...	0	0	0	0	0
Turbat	94·5	...	103	2,3	(x)	(x)	(x)	(x)	0·00	...	0·00	0	0	...	x	...	0	0	0	0	0
Jiwani	84·0	...	92	5	68·0	...	62	25	0·01	...	0·01	23	0	...	8·5	...	0	0	3	0	0
Pasni	85·1	+0·5	95	20	67·1	+5·2	61	6	0·00	—0·51	0·00	0	0	—0·7	7·9	+2·4	0	0	1	0	0
KARACHI FEDERAL TERRITORY.																					
Ormara	85·7	+3·8	95	5	67·8	+2·4	57	6	0·00	—0·23	0·00	0	0	—0·7	5·2	—2·5	0	0	3	0	0
Las Bela	96·3	+7·4	104	3	62·5	+5·5	54	6	0·00	—1·03	0·00	0	0	—1·4	x	...	0	0	0	0	0
Karachi (Manora)	83·8	+2·0	92	5	68·8	+0·7	60	6	0·00	—0·29	0·00	0	0	—0·6	x	...	0	0	0	0	0
Karachi (Mauripur)	87·9	...	96	5	67·3	...	58	6	0·00	...	0·00	0	0	...	5·4	...	0	0	0	0	0
Karachi (City)	88·3	...	95	16,17	66·5	...	53	5	0·00	...	0·00	0	0	...	4·8	...	0	0	0	0	0
Karachi (PAF)(x)																					
Karachi (Air port)	90·5	...	95	4 days.	64·9	...	56	6,13	0·00	...	0·00	0	23	...	5·5	...	0	0	0	0	0
Gadap	92·3	...	101	3	62·2	...	56	6	0·00	...	0·00	0	0	...	4·2	...	0	0	2	0	0
HYDERABAD.																					
Mithi	99·0	...	104	6 days.	63·5	...	50	7	0·00	...	0·00	0	0	...	2·2	...	0	0	0	0	0
Nagar Parkar	97·7	...	103	11	(x)	...	(x)	...	0·00	...	0·00	0	0	...	x	...	0	0	0	0	0
Umar Kot	97·2	...	102	1,30,31	62·5	...	54	6,8	0·00	...	0·00	0	0	...	3·5	...	0	0	0	0	0
Chhor	96·4	...	103	31	58·3	...	50	5,7,26	0·00	...	0·00	0	0	...	2·1	...	0	0	0	0	0
Hyderabad	96·5	+4·0	104	4	65·1	+1·3	56	6	0·00	—0·20	0·00	0	0	—0·4	1·8	—2·5	0	0	0	0	0
Badin	98·3	+6·6	102	4 days.	63·0	+1·3	49	6	0·00	—0·15	0·00	0	0	—0·2	x	...	0	0	0	0	0
KHAIRPUR.																					
Padidan	91·2	...	103	4	58·0	...	49	6	0·00	...	0·00	0	0	...	3·8	...	0	0	0	0	0
Nawabshah	93·2	...	107	4	59·9	...	50	6,7	0·00	...	0·00	0	0	...	2·4	...	0	0	0	0	0
Sukkur	90·6	+2·7	98	2,29,30	61·2	+1·6	49	6	0·00	—0·24	Tr	23	0	—0·9	2·6	—0·7	0	0	0	0	0
Kashmore	93·5	...	98	3	57·5	...	49	6	0·00	...	0·00	0	0	...	x	...	0	0	0	0	0
Jacobabad	90·9	+1·3	99	3,30	62·4	+1·8	51	6	0·01	—0·21	0·01	24	0	—0·7	5·3	+1·3	0	0	0	0	0
JUNAGADH.																					
Veraval	(x)				(x)				0·00	...	0·00	0	0	...	x	...	0	0	0	0	0
ARABIA.																					
Muscat (x)																					
AFGHANISTAN.																					
Jalalabad (x)																					

(*) Data rejected. (x) Data not available.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MARCH, 1961.

Division and Station.	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (Inches).						Wind Velocity (Knots).		Weather Number of Days.				
																			Visibility Code Figure 93 or Less.		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	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.	Thunder heard.	Hail.	Fog.	Haze (dust)	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
HILL STATION.																					
KASHMIR.																					
Srinagar (x)																					
Gulmarg (x)																					
Gurez (x)																					
Sonemarg (x)																					
Dras (x)																					
Kargil (x)																					
Leh (x)																					
Skardu (x)																					
Misgar	45·4	...	58	30,31	23·2	...	12	3,6	0·15	...	0·13	16	1	...	2·0	...	0	0	0	0	0
Aliabad (x)																					
Gilgit (x)																					
RAWALPINDI.																					
Murree	54·2	—1·4	66	31	38·1	+0·3	27	5	2·84	—1·97	0·93	19	4	—3·3	7·1	+1·9	3	3	1	0	0
PESHAWAR.																					
Drosh	63·2	+5·1	79	30	41·6	+1·2	35	6,7	2·28	—1·45	0·83	16	6	—1·4	3·0	—0·1	0	0	0	0	0
Cherat	65·0	+3·8	75	30,31	47·2	—0·5	40	25	1·48	—2·81	0·98	25	4	—1·6	4·8	—2·9	0	0	0	0	0
Kakul	66·4	...	78	31	47·2	...	35	6	2·90	...	1·15	19	4	...	(x)	...	1	0	0	0	0
Balakot (R)																					
Landikotal	65·5	...	77	30	44·4	...	29	6	1·34	...	0·44	26	4	...	(x)	...	2	0	0	0	0
Parachinar	62·8	+3·0	76	15	37·2	—1·4	30	2,11	66·4	+2·30	1·70	10	8	—0·3	3·3	+0·9	0	0	0	0	0
D. I. KHAN.																					
Miranshah	72·1	+4·8	81	30	49·0	+1·3	38	7	0·81	—1·73	0·36	16	3	—2·4	1·1	—3·6	0	0	0	0	0
Wana	67·9	+2·2	78	31	43·1	+3·1	32	6,7	1·24	—0·69	0·52	19	5	+1·1	1·8	...	0	0	0	0	0
Fort Sandeman (P. T.)	71·4	+1·5	81	30	47·3	+2·5	35	6	0·95	—0·43	0·33	17	2	—1·6	x	...	0	0	0	0	0
Fort Sandeman P. B. O.	70·6	...	80	28,29	47·4	...	55	18	1·21	...	0·78	18	3	...	2·1	...	3	0	0	0	0
Hindubagh	*	...	*	*	*	...	*	*	0·61	...	0·30	18	1	...	7·8	...	0	0	0	0	8
Loralai	71·9	...	80	4	41·2	...	28	6	0·06	—1·24	0·03	18	0	—3·1	4·4	...	0	0	0	0	0
Harnai									0·42	—0·99	0·22	18	2	—0·9	...	...	0	0	0	0	0
Quetta Samungli	68·1	...	76	4	39·4	...	21	6	0·44	...	0·22	23	2	...	x	...	4	0	1	0	0
Quetta (P. T.)	66·0	...	75	14	42·9	...	25	6	0·32	...	0·16	18,23	2	...	5·0	+2·2	0	0	0	0	0
Quetta P. B. O.	68·6	...	75	4 days.	43·0	...	29	6	0·39	...	0·20	23	1	...	4·4	...	0	0	0	0	0
Chaman	70·4	+3·9	81	14	49·1	+3·1	33	5	2·32	+0·83	1·15	23	5	+1·0	x	...	1	0	0	0	0
Nushki	78·2	...	86	28,30	56·3	...	38	6	0·04	...	0·02	23	0	...	x	...	0	0	0	0	0
Dalbandin	81·5	+3·7	90	4,28	51·4	+3·7	37	6	0·08	—0·32	0·08	15	0	—1·4	5·0	+1·0	3	0	0	0	3
KALAT.																					
Kalat (R)																					
Panjgur	79·8	+1·7	90	4	54·0	+3·8	44	6	0·28	—0·32	0·12	16	1	—0·3	x	...	1	0	0	0	1
EXTRA PAKISTAN.																					
AFGHANISTAN.																					
Kabul	54·3	+1·5	67	29	33·9	+0·3	21	6	4·29	+0·70	0·98	15	9	+1·5	x	...	2	2	1	0	0
Kandahar	71·2	...	82	14	46·7	...	31	6	2·35	...	0·96	23	5	...	1·5	...	3	0	0	2	0

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

GPPD—S-2—1 (Met.) 62—6-10-64—200.

M06.1/547
P152pa

Regd. No. S-1452.

PAKISTAN WEATHER REVIEW, 1961

Monthly Weather Report.

April.

PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN.

Chief Features :—(1) Marked norwester activity in East Pakistan on the 4th, 8th, 18th, 20th, 29th, and 30th of the month.
(2) Ten western disturbances caused fairly good rainfall activity particularly in the 1st fortnight.

East Pakistan.—Scattered thunderstorms or showers were experienced in the Region outside Chittagong Division on the 1st due to the passage of a westerly low pressure wave. Immediately after that a secondary western disturbance approached West Bengal on the 2nd and moved away eastwards across the Region by the 5th. It caused fairly widespread rain or thundershowers in Rajshahi Division on the 2nd and the 3rd, in Dacca Division on the 4th and the 5th and scattered to local rain elsewhere in the Region. Dacca recorded a northwesterly squall of 60 m.p.h. on the 4th afternoon. According to the available press reports 4 persons were killed and hundreds of houses were blown off in several villages south of Comilla where hailstorms were also experienced. Scattered to local thunderstorms also occurred over the Region between the 7th and the 10th. Weather remained dry in the region till the 17th except for local rain or thundershowers on the 12th and scattered thunderstorms on the 17th in Chittagong Division due to incursion of moist air over there. A well marked low pressure wave caused fairly widespread rain or thundershowers in Chittagong Division on the 19th, local in Dacca Division on the 18th and the 19th and scattered in Chittagong Division on the 18th and in Rajshahi Division on the 19th. Dacca also reported a northwesterly squall of 58 m.p.h. on the 18th. No damage to life or property was reported. Thereafter a well marked low pressure area lying over West Bengal and neighbourhood caused marked incursion of moist air into the region on the 20th resulting in nearly widespread rain or thundershowers in Dacca Division and local rain elsewhere over the region for 2-3 days, scattered to local rain/thundershowers continued over the region till the 28th. Thereafter weather activity became very much pronounced due to the passage of two westerly low pressure waves when rain or thundershowers were widespread in Dacca from 29th to 31st, in Khulna Division on the 29th and fairly widespread in Rajshahi Division on the 30th. Scattered or local rain or thundershowers otherwise occurred in the Region during the period.

Northwesterly squalls swept across several places of the Region on these days specially in Dacca and Jessore Districts on the 28th; in Rangpur District on the 29th and in Mymensingh and Bogra Districts on the 29th and the 30th. According to the available press reports considerable damage was caused to the standing full crops and the property but no loss of life came on record.

Chief amounts of rainfall recorded during the month were :—Satkhira 2″ on the 1st ; Comilla 1½″ on the 4th and Dacca on the 5th ; Brahmanbaria 1½″ on the 19th ; Chittagong 3″ and Rangamati 1″ on the 10th ; Comilla 3″ and Sylhet 2″ on the 21st ; Sylhet 1½″ on the 27th ; Faridpur 2″ on the 28th ; Pabna 2″ on the 29th and Comilla 1½″ on the 30th.

The total rainfall during the month was in moderate defect over the entire region.

The mean maximum temperature was normal in Chittagong and Dacca Divisions and above normal elsewhere.

The mean minimum temperature was above normal in Chittagong and Rajshahi Divisions and normal over rest of the region.

The mean relative humidity was in defect in Rajshahi Division and normal elsewhere.

The mean cloud amount was in defect in Khulna and Chittagong Divisions and normal over the rest of the region.

West Pakistan.—A secondary western disturbance moving across the northern region caused scattered rain or thundershowers in Rawalpindi, Sargodha, Peshawar and Quetta Divisions on the 1st. Thereafter two active western disturbances and their secondaries moving in close succession across the region caused generally fairly widespread rain or thundershowers in northern Divisions and scattered or local rain in Sargodha, Multan and Quetta Divisions practically on all the days between the 2nd and the 5th. Two feeble western disturbances again moved across the region between the 5th and the 7th, causing scattered rain in Kalat Division on the 2nd, in Karachi Federal Territory on the 3rd, and the 8th, in Khairpur Division on the 5th and local rain or thundershowers in Peshawar Division on the 6th. Thereafter two active western disturbances and their secondaries caused generally fairly widespread rain or thundershowers in Kalat Division on the 8th and the 9th ; in Karachi on the 9th and in the northern district between the 10th and the 11th. Scattered or local rain or thundershowers also occurred elsewhere over the Region during the period. Two more western disturbances moving in close succession resulted in fairly widespread rain or thundershowers activity between the 12th and the 14th in the northern districts of West Pakistan and in scattered or local rain or thundershowers elsewhere in the region outside Karachi Federal Territory on the 13th and in Quetta Division on the 14th. A few moderate to heavy falls were reported in Kalat, Peshawar, Quetta, Hyderabad, Rawalpindi, Peshawar and D. I. Khan Divisions between the 9th and the 12th. Snowfall was also reported from the hills of Peshawar Division.

Scattered or local light rain or thundershowers occurred in Rawalpindi and Peshawar Divisions between the 15th and the 19th and also in D. I. Khan Division on the 17th due to the passage of two western disturbances and their secondaries. Another western distrubance thereafter caused nearly local rain or thundershowers in Rawalpindi and Peshawar Divisions and light rain in Lahore and Quetta Divisions between the 20th and the 21st. Local thunderstorms again occurred in Peshawar Division on the 28th and the 29th, scattered in Rawalpindi Division on the 29th and in Quetta Division on the 29th and 31st in association with the passage of two feeble secondary western disburbances. A few duststorms or thunderstorms occurred in Lahore and Sargodha Divisions on the 29th.

Chief amounts of rainfall recorded during the month were : Harnai 2″ and Drosh, Chakdara, Peshawar, Bannu and Wana 1½″ each on the 4th ; Jiwani 2″ on the 8th ; Turbat and Ormara 2″ each on the 9th ; Cherat 2″ and Drosh, Quetta and Umerkot 1½″ each on the 10th ; Murree 3″, Jhelum Campbellpur, Cherat, Haripur and Harnai 2″ each and Rawalpindi and Chakdara 1½″ each on the 11th ; Kakul 2″ and Murree 1½″ on the 13th ; Murree 3″ and Kakul 1½″ on the 14th and Kakul 2″ and Murree 1½″ on the 21st.

The total rainfall during the month was normal in Lahore Division, in slight excess in Sargodha Division, in moderate excess in Multan Division and in large excess elsewhere. Averaged over the region as a whole, it was in large excess.

The mean maximum temperature was normal in Bahawalpur and Hyderabad Divisions and the Karachi Federal Territory and below normal elsewhere.

The mean minimum temperature was normal over the entire region outside Peshawar Division, where it was below normal.

The mean relative humidity was in defect in Karachi Federal Territory normal in Lahore, Multan, Bahawalpur, Quetta, Kalat and Khairpur Divisions and in excess elsewhere.

The mean cloud amount was in excess in Lahore, Multan, Quetta, Khairpur Divisions and Karachi Federal Territory and normal over rest of the region.

Table I contains the Divisional means of rainfall, temperature, relative humidity and cloud amount for the 16 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 MEANS FOR APRIL, 1961.

Division.	PRECIPITATION.				DEPARTURE FROM NORMAL OF				
							0300 hrs. G.M.T.		
	Actual	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	Inches	Inches	Inches		Degree	Degree	mb	%	
EAST PAKISTAN.									
Chittagong	3·59	6·27	—2·68	—43	+1·9	+2·0	+1·5	—1	+0·1
Dacca	3·09	5·29	—2·20	—42	+3·1	+1·9	+1·1	—1	—0·4
Khulna	2·06	3·40	—1·34	—39	+1·2	+1·8	+2·9	+2	—0·7
Rajshahi	1·51	2·66	—1·15	—43	+3·7	+2·2	—0·7	—10	—0·9
Mean	2·62	4·31	—1·69	—39	+2·4	+2·0	+1·2	—2	—0·4
WEST PAKISTAN									
Kashmir*									
Lahore	0·87	0·79	+0·08	+10	—2·1	+1·9	+1·4	+5	+0·5
Rawalpindi	7·73	3·03	+4·70	+155	—3·8	—1·2	+0·3	+6	+0·3
Sargodha	0·77	0·69	+0·08	+12	—2·9	—2·1	+1·9	+11	—0·4
Multan	0·39	0·31	+0·08	+26	—2·0	—0·9	—1·3	—3	+1·0
Bahawalpur	0·57	0·18	+0·39	+217	—0·6	+0·8	—1·4	—4	—0·3
Peshawar	8·85	3·16	+5·69	+180	—2·3	—2·7	+0·1	+6	+0·2
D. I. Khan	2·79	1·17	+1·62	+138	—3·4	—1·9	+1·0	+6	+0·1
Quetta	2·62	0·64	+1·98	+309	—4·0	—1·0	+0·6	+1	+0·6
Kalat	1·03	0·38	+0·65	+171	—3·5	+0·1	—1·5	—2	0·0
Karachi Federal Territory	1·61	0·37	+1·24	+335	+0·4	—0·7	—2·4	—6	+0·4
Hyderabad	0·69	0·03	+0·66	+2200	—1·4	—1·3	+0·9	+7	+0·2
Khairpur	0·44	0·13	+0·31	+238	—2·8	—0·5	—1·7	+1	+1·4
Mean	2·16	0·76	+1·31	+172	—2·7	—0·9	—0·3	+1	+0·1
Junagad*									

(*) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL, 1961.

Division and Station.	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure. Station level reduced to standard temperature and gravity.	Mean Pressure. Departure from normal.	Mean Pressure. Reduced to standard temperature and M.S.L. or Geopotential of 850/700 mbs. pressure level in geopotential meters.	Mean Temperature of the Air and Humidity. Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount. Mean amount	Departure from normal.	Wind Direction Number of Observations. From :— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas	oktas									
EAST PAKISTAN																							
CHITTAGONG DIVISION																							
Rangamati	0000	208	1002·2		1009·4	75·1	73·3	72·4	27·2		92		3·1		2	0	0	2	16	0	3	0	7
	0300		1003·7		1010·8	84·7	77·1	73·6	28·4		70		2·7		2	0	1	0	24	0	2	0	1
	1200		999·5		1006·5	87·8	76·5	70·7	26·0		58		2·0		5	0	0	0	17	5	3	0	0
Cox's Bazar (P.T.)	0000	38																					
	0300		1008·8	—0·5	1010·1	86·2	78·9	75·8	30·4	+1·1	72	—3	2·3	—1·0	1	0	1	3	10	8	4	3	0
	1200		1005·2		1006·5	84·3	79·0	76·7	31·4		78		3·0		0	0	0	0	7	11	9	3	0
Chittagong (Patenga)	0000	20	1007·4		1008·1	77·5	76·2	75·7	30·3		93		3·5		0	3	3	17	2	0	0	0	5
	0300		1009·3		1010·0	85·4	79·9	77·7	32·4		78		3·9		0	0	1	10	13	2	0	0	3
	1200		1005·4		1006·1	85·0	80·2	78·2	33·0		80		3·7		0	0	0	1	12	13	4	0	0
Chittagong (P.T.)	0000	46																					
	0300		1008·3	—0·6	1009·9	85·5	77·8	74·7	29·1	+1·0	70	—5	3·5	+0·1	0	2	2	10	12	3 (c)	1	0	0
	1200		1004·4		1006·0	84·3	78·1	75·4	30·0		75		3·5		0	0	0	0	9	13	6	0	0
Maijdee Court	0000	25	1006·5		1007·4	77·4	75·7	75·2	29·6		93		3·4		1	0	0	2	5	2	0	0	20
	0300		1008·5	—0·5	1009·3	85·0	79·2	76·8	31·4	+1·9	76	+1	3·8	+0·4	1	0	1	2	15	0	0	0	11
	1200		1004·4		1005·2	84·3	78·1	75·0	30·0		75		3·8		1	0	0	2	21	2	1	0	3
Comilla	0000	29	1006·3		1007·3	75·9	74·2	73·1	28·1		91		2·8		0	0	1	1	15	0	0	0	13
	0300		1007·9	—0·7	1008·9	85·3	78·2	74·5	29·7	+0·9	71	0	3·6	+0·1	0	0	0	0	22	0	0	0	8
	1200		1003·9		1004·8	86·1	77·7	73·3	28·6		69		3·4		1	0	1	0	22	0	1	0	5
Brahmanbaria	0000	32	1006·3		1007·4	75·9	73·5	72·3	27·1		89		3·6		0	2	0	3	19	2	0	0	4
	0300		1008·2		1009·3	84·1	76·3	72·5	27·4	+1·8	69	0	3·7		1	1	1	9	11	6	1	0	0
	1200		1003·6		1004·7	86·7	74·9	68·9	24·2		57		3·4		1	1	4	4	13	4	0	0	3
Sylhet (P.B.O.)	0000	115	1003·5		1007·5	73·0	70·9	69·7	24·9		89		4·7		2	3	13	2	1	0	0	1	8
	0300		1005·3		1009·2	80·8	74·8	71·6	26·7		74		4·7		1	2	15	10	2	0	0	0	0
	1200		1000·6		1004·5	83·7	75·9	72·1	27·0		69		3·7		1	1	2	4	3	0	0	3	16
Srimangal	0000	69	1004·8		*	73·0	71·3	70·5	25·4		92		2·5		0	0	0	0	0	0	0	0	30
	0300		1006·1	—1·7	*	82·9	76·6	74·4	28·5	+2·5	76	—1	4·2	+0·7	0	0	3	7	6	2	1	0	11
	1200		1001·9		*	84·6	77·0	73·3	28·3		71		4·1		0	0	3	2	2	2	1	0	20
DACCA DIVISION																							
Mymensingh	0000	62	1005·0		1007·1	75·3	72·8	71·4	26·4		88		3·4		0	0	8	3	0	0	1	0	18
	0300		1007·1	—0·5	1009·2	82·1	75·6	72·4	27·3	+1·9	74	0	3·7	—1·0	0	0	8	11	0	0	4	0	7
	1200		1002·0		1004·1	88·3	76·9	70·7	26·4		58		2·3		0	0	10	4	0	0	6	0	10
Jamalpur (R)	0000	63																					
	0300																						
	1200																						
Narayanganj	0000	26	1005·9		1006·8	76·9	74·6	73·6	28·2		89		3·4		0	0	2	6	10	2	1	0	9
	0300		1007·8	—0·7	1008·7	85·1	77·9	74·4	29·4	+1·5	71	—4	3·9	—0·3	0	0	4	5	13	6	1	0	1
	1200		1003·5		1004·4	86·1	77·2	72·8	27·8		66		3·6		0	0	2	5	19	1	0	2	1

(c) Observation for 28 days. (R) Register not received. * Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL, 1961—*Contd.*

Division and Station.	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure. Station level reduced to standard temperature and gravity.	Departure from normal.	Reduced to standard temperature and M.S.L. or Geopotential of 850/700 mbs. Pressure level in geopotential meters.	Mean Temperature of the Air and Humidity. Dry bulb.	Wet bulb.	Dew point	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount. Mean amount.	Departure from normal.	Wind Direction Number of Observations From :— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas	oktas									
DACCA DIVISION—Contd.																							
Dacca (Tejgaon)	0000	32′	1005·2		1006·3	75·7	73·6	72·4	27·4		91		3·5		0	0	2	5	2	17	0	0	9
	0300		1007·2		1008·3	83·7	76·7	73·3	28·2		71		4·0		0	1	1	5	4	16	0	0	3
	1200		1002·6		1003·7	86·7	75·2	69·1	24·6		58		3·2		2	1	1	4	8	11	1	0	2
Faridpur	0000	40′	1004·8		1006·4	76·2	74·2	73·1	28·0		90		2·9		0	0	0	11	14	1	0	0	4
	0300		1006·7	—0·3	1008·3	85·5	77·2	73·9	28·1	0·0	69	0	3·3	—0·2	1	1	0	9	9	2	4	0	4
	1200		1002·3		1003·9	88·0	74·3	66·1	22·7		53		2·9		3	1	0	8	10	2	0	2	4
KHULNA DIVISION																							
Barisal	0000	11′	1006·9		1007·3	78·3	76·4	75·5	29·7		91		2·0		1	0	1	0	3	0	0	0	25
	0300		1008·6	—0·4	1009·0	86·0	79·5	76·9	31·5	—1·6	75	0	4·0	0·2	0	0	2	6	6	0	1	0	15
	1200		1005·1		1005·5	86·1	78·6	75·0	29·9		73		3·4		0	0	0	8	11	2	0	0	9
Khulna	0000	16′	1006·5		1007·1	78·1	77·5	77·3	32·0		97		2·3		0	0	1	0	1	0	0	0	28
	0300		1008·2	—0·2	1008·8	86·2	81·0	79·0	33·9	+5·1	79	+7	2·3	—1·8	0	0	0	0	6	4	0	0	20
	1200		1004·0		1004·5	88·3	79·8	76·3	30·9		68		1·8		0	2	0	3	6	1	0	0	18
Satkhira	0000	16′	1006·6		1007·2	77·9	76·1	75·1	29·9		92		2·0		0	0	0	0	3	1	0	0	26
	0300		1007·8	—0·5	1008·4	87·3	80·0	76·8	31·6	+2·4	72	+2	2·7	—0·3	0	1	0	0	0	15	0	0	14
	1200		1003·5		1004·1	91·6	*	*	*		*		3·1		0	2	0	1	3	9	0	0	15
Jessore (P.T.)	0000	26′	1005·4		1006·3	77·0	75·8	75·4	30·2		95		3·2		0	0	0	1	18	5	0	1	5
	0300		1007·0	—0·9	1007·9	85·7	79·2	76·3	31·5	+2·7	73	0	2·3	—1·0	1	1	0	1	12	14	0	0	1
	1200		1004·0		1004·9	91·1	77·0	69·9	25·3		53		1·9		0	0	2	0	25	2	1	0	0
RAJSHAHI DIVISION																							
Pabna	0000	48′	1004·3		1006·0	75·5	72·1	70·2	25·4		84		2·1		0	0	2	7	4	7	0	0	10
	0300		1006·1	—	1007·8	86·5	76·4	71·2	26·5	+1·0	62	—10	2·0		1	1	1	7	8	11	0	0	0
	1200		1001·0		1002·7	92·1	73·4	61·8	19·6		39		2·2		0	1	1	4	1	(b) 7	2	5	8
Ishurdi	0000					74·1	70·1	67·6	23·3		81		2·8		0	1	8	5	13	3	0	0	0
	0300					87·0	74·6	67·8	23·6		57		3·2		0	3	2	6	7	7	2	3	0
	1200					93·6	71·4	56·2	16·2		33		2·2		1	3	1	7	2	2	6	8	0
Sirajganj	0000	51′	1004·4		1006·2	73·6	71·1	69·4	24·8		87		2·6		0	0	0	3	0	0	0	0	27
	0300		1006·5		1008·2	83·9	74·6	69·6	25·1		65		2·8		0	0	4	1	7	0	2	0	16
	1200		1001·3		1003·0	91·5	75·3	65·5	22·6		47		1·8		0	0	1	2	6	0	1	0	20
Rajshahi (R)	0000																						
	0300																						
	1200																						
Bogra (P.B.O.)	0000	65′	1003·8		1006·1	73·7	70·4	68·5	23·9		85		3·6		0	1	7	1	0	2	1	1	17
	0300		1005·7	—0·8	1007·9	84·9	75·1	69·9	25·3	+0·6	63	—6	3·1	—0·3	0	2	6	7	3	4	4	1	3
	1200		1000·6		1002·7	91·5	74·5	64·3	21·5		45		2·0		1	3	5	1	0	4	7	7	2
Dinajpur	0000	123′	1001·6		1005·9	72·6	66·3	61·8	19·2		71		1·6		0	2	6	0	0	0	1	(d) 0	18
	0300		1002·9	—1·4	1007·2	84·7	71·2	62·6	20·0	—1·7	51	—14	1·6	—1·6	0	0	5	0	0	0	0	(d) 0	22
	1200		998·5		1002·6	93·0	72·4	58·2	17·9		36		0·3		0	2	1	0	0	0	1	(d) 0	23
Rangpur	0000	113′	1003·1		1007·0	71·8	68·1	65·7	21·8		82		2·6		1	3	12	2	3	1	0	0	8
	0300		1005·0		1008·9	81·9	73·3	68·1	24·1		65		3·0		2	11	8	2	4	1	2	0	0
	1200		999·5		1003·3	89·5	74·5	66·1	22·3		49		0·9		1	7	3	1	1	1	6	0	10

(R)—Register not received.
(*)—Data rejected.
(b)—Observation for 29 days.
(d)—Observation for 27 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL, 1961—*Contd.*

Division and Station.	Hours of observation.	Height of barometer above mean sea level.	Mean Pressure. Station level reduced to standard temperature and gravity.	Mean Pressure. Departure from normal.	Mean Pressure. Reduced to standard temperature and M.S.L. or Geopotential of 850/700 mbs. Pressure level in geopotential meters.	Mean Temperature of the Air and Humidity. Dry bulb.	Mean Temperature of the Air and Humidity. Wet bulb.	Mean Temperature of the Air and Humidity. Dew point.	Mean Temperature of the Air and Humidity. Vapour pressure.	Mean Temperature of the Air and Humidity. Departure from normal.	Mean Temperature of the Air and Humidity. Relative humidity.	Mean Temperature of the Air and Humidity. Departure from normal.	Total Cloud Amount. Mean amount.	Total Cloud Amount. Departure from normal.	Wind Direction Number of Observations. From :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
KASHMIR :	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb	Mb.	%	%	oktas	oktas									
Jammu (x)	0300	1200																					
	1200																						
LAHORE :																							
Lahore (P.B.O.)	0000	702	983·1		1007·7	67·4	60·5	55·1	14·9		65		3·1		2	5	0	1	0	0	0	4	18
	0300		984·4	−1·0	1008·7	74·0	63·3	55·2	15·1	−1·7	52	+8	2·8	−0·5	5	10	1	1	0	1	0	6	6
	1200		982·0		1005·6	89·5	67·1	49·4	12·5		26		3·3		3	4	0	2	1	0	3	5	12
Lahore (Cantt.)	0000	709	(g) 981·8		(g) 1006·5	(g) 67·9	(g) 61·6	(g) 56·5	15·8		68		(g) 2·5		7	1	0	1	0	1	0	6	(g) 8
	0300		(g) 983·2	...	(g) 1007·6	(g) 74·9	(g) 64·7	(g) 57·0	16·3	...	55	...	(g) 2·5	...	7	4	0	3	0	0	1	5	(g) 4
	1200		(g) 981·2		(g) 1004·9	(g) 90·5	(g) 69·3	(g) 54·2	14·9		31		(g) 3·4		3	4	1	3	1	1	2	9	(g) 0
Sialkot	0000	830	978·3		1007·2	68·8	60·8	54·5	14·6		61		2·2		0	4	0	0	0	0	0	1	(c) 23
	0300		979·3	+0·1	1008·0	74·0	63·1	55·1	14·8	+1·1	51	+1	2·4	+0·5	0	2	0	1	0	0	0	1	26
	1200		977·6		1005·5	86·8	68·0	54·2	14·9		34		2·9		0	1	0	1	0	3	0	5	(d) 17
RAWALPINDI :																							
Jhelum	0000	765	980·7		1007·7	64·7	58·7	53·3	14·2		68		3·5		0	3	0	0	0	0	0	13	14
	0300		982·2	...	1008·9	71·3	61·7	54·2	14·5	...	55	...	3·3	...	0	4	0	1	1	0	2	12	10
	1200		979·0		1005·8	85·9	66·1	50·4	13·0		31		3·3		1	4	0	3	0	0	2	13	7
Chaklala	0000	1667	951·7		1010·0	60·0	55·8	52·4	13·5		77		3·0		4	4	0	0	0	0	3	10	9
	0300		952·9	...	1010·3	66·5	59·1	53·7	14·1	...	63	...	2·6	...	2	6	1	0	0	0	4	6	11
	1200		951·0		1007·0	79·6	62·1	48·3	12·0		35		3·9		1	4	0	0	0	1	18	3	3
Rawalpindi	0000	1675	951·7		1010·3	60·2	56·3	53·2	13·9		88		2·8		3	1	2	1	1	1	6	1	14
	0300		952·2	+0·7	1010·0	67·8	59·5	53·6	14·1	+1·1	61	+13	2·7	+0·1	0	3	2	0	4	7	4	0	10
	1200		950·7		1007·0	79·6	64·1	53·2	14·1		41		3·6		2	1	0	1	0	3	13	4	6
Campbelpur	0300	1175	969·8	...	1010·7	66·3	59·7	54·4	14·6	...	66	...	1·4	...	4	5	2	1	0	0	1	0	17
	1200		968·2		1008·0	80·8	65·2	53·5	14·2		40		1·1		8	4	2	0	0	1	0	4	11
SARGODHA :																							
Khushab	0000	616	(g) 986·6		(g) 1008·2	67·7	60·6	55·1	14·9		66		2·6		0	5	18	1	1	2	1	0	2
	0300		887·7	+0·6	1009·1	74·5	63·3	54·7	14·8	+1·8	51	+8	2·1	−0·1	3	3	10	0	0	2	0	0	12
	1200		985·6		1006·4	88·2	66·8	50·4	12·8		27		2·6		3	3	11	0	0	1	0	0	12
Sargodha (P.A.F.)	0000	617	986·4		1008·1	64·3	58·9	54·4	14·9		70		2·7		3	8	2	3	0	2	2	1	9
	0300		987.7	...	1009·2	72·5	63·1	56·1	15·7	...	57	...	3·3	...	3	5	5	1	0	1	1	4	10
	1200		985·4		1006·3	87·2	66·8	50·6	13·7		30		3·7		8	6	3	1	1	2	6	2	1
Mianwali	0000	679	984·3		1008·4	63·0	58·7	55·2	15·1		75		1·8		0	3	0	0	1	0	0	2	24
	0300		985.6	...	1009·3	70·0	61·7	55·4	15·4	...	60	...	2·0	...	0	7	0	0	0	0	0	2	21
	1200		(b) 983.1		(b) 1006·2	83·7	66·1	53·9	14·8		36		3·2		0	4	0	0	0	0	0	4	22
Lyallpur	0000	605	986.5		1007·8	65·9	59·8	54·8	14·8		69		2·1		1	0	1	0	0	1	0	6	21
	0300		987.3	+0.4	1008·5	69·8	61·4	55·0	14·8	+2·0	59	+13	2·4	−0·7	5	7	2	0	0	0	2	5	9
	1200		985.2		1005·6	88·6	67·7	52·3	13·7		30		2·5		4	3	4	0	0	3	5	7	4
MULTAN :																							
Montgomery	0000	558	(c) 987.6		(c) 1007·2	66·7	59·5	53·4	14·1		64		1·7		3	4	2	2	1	1	1	1	15
	0300		989·4	+1.0	1008·7	75·1	63·0	53·5	14·3	−1·3	48	−8	2·3	+0·7	2	8	0	5	0	3	0	1	11
	1200		986·9		1005·7	90·8	56·8	46·7	11·6		24		2·0		0	8	0	2	0	4	0	4	12
Multan (P.B.O.)	0000	404	993·3		1007·7	66·8	58·6	51·6	13·2		59		3·0		7	0	1	2	1	0	0	2	17
	0300		994·8	...	1009·0	73·6	62 1	52·8	13·9	...	49	...	2·9	...	17	3	1	0	1	1	0	0	7
	1200		992·0		1005·6	90·9	55·8	43·9	10·3		21		3·2		6	6	0	2	3	4	1	1	7

(c) Mean for 28 days.
(d) Mean for 27 days.

(g) Mean for 24 days.
(b) Mean for 29 days.

(x)—Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL, 1961—*Contd.*

Division and Station.	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure. Station level reduced to standard temperature and gravity.	Departure from normal.	Reduced to standard temperature and M.S.L. or Geopotential of 850/700 mbs. Pressure level in Geopotential meters.	Mean Temperature of the Air and Humidity. Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount. Mean amount.	Departure from normal.	Wind Direction Number of Observations. From :— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas	oktas									
Multan (Surf)	0300	413	994·5	+0·9	1008·9	74·0	63·3	55·5	15·1	—1·3	52	—1	3·0	+1·3	13	0	0	0	1	0	3	1	12
	1200		991·4		1005·3	90·9	67·2	48·6	12·1		25		3·4		8	0	1	1	2	1	4	1	12
Lahore	0000	487	*		*	*	*	*					3·5		10	2	1	5	2	0	0	8	2
	0300		*		*	*	*	*					3·4	...	11	3	1	2	1	2	1	3	6
	1200		*		*	*	*	*					4·1		7	2	2	0	3	0	1	10	5
BAHAWALPUR :																							
Khanpur (P.B.O.)	0000	290	996·7		1007·1	67·0	58·4	51·0	12·8		57		1·7		5	4	0	0	0	3	2	0	16
	0300		998·7	...	1008·9	75·3	62·1	51·2	13·1	...	43	...	2·0	...	4	11	2	0	1	4	2	2	4
	1200		995·3		1005·1	93·3	66·1	41·1	9·7		18		2·1		5	4	0	2	0	3	11	2	3
Bahawalpur	0300	384	994·8	—0·2	1008·2	77·0	64·1	54·0	14·6	—1·4	46	—4	1·5	—0·3	1	3	1	9	4	2	0	0	10
	1200		(f) 993·1		(f) 1005·9	93·9	70·2	53·8	14·6		27		1·9		1	4	1	0	0	3	1	4	16
Ist Abbas	0000	475	*		*	*	*	*	...		...		0·0		5	1	0	1	3	4	6	2	8
	0300		992·4	...	1008·9	78·0	63·2	50·0	13·1	...	39	...	0·2	...	10	1	3	3	5	2	0	0	6
	1200		989·2		1005·2	94·8	69·4	49·8	13·0		23		0·3		4	3	0	1	1	3	10	4	4
PESHAWAR :																							
Chakdara	0000	2197	*		*	56·0	51·9	47·8	11·5		76		1·4		23	0	0	0	1	0	5	0	1
	0300		934·2	...	1010·1	61·0	55·0	49·6	12·3	...	67	...	1·8	...	16	0	1	0	1	0	6	0	6
	1200		931·8		1005·4	75·3	61·7	51·8	13·3		44		1·8		5	0	2	2	11	0	5	0	5
Peshawar	0000	1177	969·0		1010·6	59·7	56·1	52·9	13·7		78		3·4		3	0	0	6	10	1	1	1	8
	0300		970·3	+0·8	1011·4	66·8	60·7	56·1	15·4	—1·7	69	+13	3·7	0·0	1	0	1	4	6	2	2	2	12
	1200		968·6		1008·1	78·1	63·6	51·9	13·6		41		4·5		4	2	1	2	1	4	1	8	7
Risalpur	0000	1047	972·9		1009·8	58·5	56·4	54·4	14·6		87		3·6		0	1	0	0	0	2	10	2	15
	0300		974·1	...	1010·5	65·2	60·6	57·0	16·0	...	75	...	3·7	...	1	0	0	0	0	8	12	1	8
	1200		971·6		1007·1	78·7	65·4	55·7	15·4		46		4·3		0	2	1	0	0	3	9	4	11
Hariपur	0300	1757	949·4	...	1009·9	66·9	61·0	56·5	15·8	...	70	...	3·1	...	0	3	0	3	5	19	0	0	0
	1200		(i) 948·6		(i) 1007·6	79·7	66·6	58·6	17·0		49		3·4		0	1	0	11	0	13	0	5	0
Kohat P.A.F.	0000	1683	951·9		1010·3	63·4	55·9	49·6	12·2		61		2·5		5	1	0	0	0	2	0	19	3
	0300		952·9	...	1011·0	67·7	58·0	50·0	12·5	...	54	...	2·8	...	8	1	0	0	0	1	1	9	10
	1200		951·3		1007·9	79·4	62·2	48·9	12·2		35		4·3		4	13	1	4	0	0	0	1	7
D. I. KHAN																							
Bannu	0000	1263	965·0		1009·3	62·7	(l) 56·9	(l) 53·6	13·2		68		1·3		0	0	0	0	0	0	1	5	24
	0300		966·2	...	1010·1	68·3	(l) 59·3	(l) 54·5	13·2	+0·2	56	+5	2·1	+0·4	1	0	1	1	2	2	5	7	11
	1200		963·9		1006·7	81·3	(l) 63·7	(l) 54·6	12·2		34		3·3		1	0	4	9	5	0	0	5	6
D. I. Khan	0000	570	988·0		1008·2	65·6	60·6	56·9	15·8		74		2·4		2	1	0	0	0	0	0	1	26
	0300		989·5	+0·8	1009·4	72·6	64·3	58·7	16·9	+0·9	62	+6	2·4	+0·2	0	3	0	0	0	0	0	2	25
	1200		986·8		1006·1	88·2	(d) 69·5	(d) 58·3	17·8		36		3·3		5	1	1	0	1	0	0	1	21
QUETTA																							
Sibi	0000	441	992·9		1007·9	73·5	60·2	47·6	11·8		45		2·1		5	1	0	0	0	0	2	3	19
	0300		994·2	+1·8	1009·7	75·9	61·9	48·9	12·7	+2·9	44	+13	3·1	+1·2	8	3	0	2	0	2	1	1	13
	1200		990·3		1005·5	93·5	66·8	43·4	10·4		22		4·0		2	1	1	2	7	6	6	2	3

(d) Mean for 27 days

(f) Mean for 25 days

(l) Mean for 19 days

(i) Mean for 22 days

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL, 1961—*Contd.*

Division and Station.	Hours of observation.	Height of barometer above mean sea level.	Mean Pressure. Station level reduced to standard temperature and gravity.	Mean Pressure. Departure from normal.	Mean Pressure. Reduced to standard temperature and M.S.L. or Geopotential of 850/700 mbs. Pressure level in geopotential meters.	Mean Temperature of the Air and Humidity. Dry bulb.	Mean Temperature of the Air and Humidity. Wet bulb.	Mean Temperature of the Air and Humidity. Dew point.	Mean Temperature of the Air and Humidity. Vapour pressure.	Mean Temperature of the Air and Humidity. Departure from normal.	Mean Temperature of the Air and Humidity. Relative humidity.	Mean Temperature of the Air and Humidity. Departure from normal.	Total Cloud Amount. Mean amount.	Total Cloud Amount. Departure from normal.	Wind Direction Number of Observations From :— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb	°F	°F	°F	Mb.	Mb.	%	%	oktas	oktas									
KALAT																							
Nokkundi	0000	2229	933·3		1009·6	65·1	53·9	43·3	9·7		47		1·0		10	3	3	1	1	1	4	7	0
	0300		934·8	—	1010·7	68·8	56·1	44·7	10·3	—0·7	44	—1	0.6	—1·3	4	7	4	1	3	2	4	5	0
	1200		932·1		1005·3	86·6	62·2	40·8	9·2		23		0·9		3	2	3	1	4	4	6	7	0
Turbat	0000	510	990·2		1008·0	72·0	62·8	55·8	15·4		60		1·5		0	1	6	2	1	2	1	0	17
	0300		991·7	—	1009·4	76·6	64·4	54·4	15·2	—	51	—	1·7	—	0	1	10	2	1	0	0	1	15
	1200		988·3		1005·3	95·6	68·2	45·8	11·2		22		2·7		2	3	2	0	2	2	15	4	0
Liwani	0000	185	1002·3		1008·8	72·3	68·6	66·4	23·1		82		2·5		3	1	0	2	1	1	14	2	6
	0300		1003·9		1010·3	74·0	69·1	65·9	22·5		78		2·9	—	6	1	0	1	1	5	11	0	5
	1200		1001·9		1008·3	82·6	69·6	61·1	19·9		52		3·0		0	0	2	0	2	16	10	*0	0
Pasni	0000	28	1007·5		1008·5	70·6	68·4	66·8	22·8		90		1·6		5	0	1	0	0	1	22	1	0
	0300		1008·1	—0·6	1009·1	71·5	68·8	67·2	22·9	—0·8	88	+7	1·5	+0·1	1	1	0	1	0	1	19	7	0
	1200		1006·2		1007·1	84·5	77·4	73·9	28·9		73		2·0		1	0	0	1	5	22	1	0	0
KARACHI FEDERAL TERRITORY																							
Ormara	0000	15	1007·3		1007·8	73·7	71·0	69·4	24·8		88		2·5		0	0	0	1	0	4	11	3	11
	0300		1008·8	—	1009·3	77·1	71·5	68·2	23·9	—1·8	76	—8	3·3	+1·5	0	0	0	1	0	1	9	0	19
	1200		1006·4		1006·9	83·5	73·6	67·2	23·8		61		2·7		0	0	1	2	2	5	19	1	0
Lasbela	0000	292	996·6		1006·9	74·3	64·7	57·5	16·5		58		0·8		*	*	*	*	*	*	*	*	*
	0300		999·0	—0·4	1009·1	76·8	67·6	61·1	18·9	—3·2	62	—6	1·2	—0·2	*	*	*	*	*	*	*	*	*
	1200		995·0		1004·7	94·7	75·3	64·7	21·1		40		1·5		*	*	*	*	*	*	*	*	*
Karachi (Manora)	0000	13	1007·3		1007·8	73·8	69·2	66·5	22·3		79		2·0		1	2	1	0	0	3	14	2	7
	0300		1008·7	0·0	1009·2	75·6	71·0	68·3	23·9	—2·1	79	—4	2·0	—0·1	1	0	1	0	0	1	17	4	6
	1200		1006·5		1007·0	82·8	77·1	74·4	29·2		77		2·8		0	0	0	0	1	7	20	2	0
Karachi (Mauripur)	0000	52	1005·9		1007·7	73·3	70·1	68·1	23·8		85		1·8		1	0	1	1	1	2	13	5	6
	0300		1007·3	—	1009·1	75·6	71·2	68·3	24·5	—	80	—	2·4	—	2	2	1	0	0	1	10	8	6
	1200		1005·3		1007·1	84·5	74·5	68·4	24·6		64		2·5		0	0	0	0	1	18	8	2	1
Karachi (City)	0000	20	1008·3	—	1009·0	77·4	72·0	69·0	24·4	—	76	—	1·6	—	1	3	2	0	0	3	13	6	2
	0300		1005·9		1006·6	83·1	74·9	70·8	25·5		68		2·2		0	0	0	0	0	16	13	1	0
	1200		.																				
Karachi (P.A.F.) x	0000	38																					
	0300																						
	1200																						
Karachi (Airport)	0000	73	1005·3		1007·9	72·1	68·9	66·7	22·7		85		2·0		1	0	1	0	0	3	7	1	17
	0300		1007·0	—	1009·5	76·3	70·4	66·5	22·7	—	74	—	1·9	—	0	0	0	0	0	1	13	3	13
	1200		1004·6		1007·1	85·9	73·7	66·4	22·8		55		2·6		0	0	0	0	2	19	6	3	0
Gadap	0300					(d) 75·1	(d) 66·2	(d) 60·3	18·3	—	62	—	(d) 2·0	—	1	0	0	0	(d) 0	6	14	6	0
	1200					(d) 87·9	(d) 69·0	(d) 56·0	15·9		36		(d) 2·3		0	0	0	0	(d) 0	12	13	2	0

(*) Data rejected. (d) Means for 27 days. (x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL, 1961—*Contd.*

Division and Station.	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure. Station level reduced to standard temperature and gravity.	Mean Pressure. Departure from normal.	Mean Pressure. Reduced to standard temperature and lat. 45° Geopotential. Pressure level in geopotential meters.	Mean Temperature of the Air and Humidity. Dry bulb.	Mean Temperature of the Air and Humidity. Wet bulb.	Mean Temperature of the Air and Humidity. Dew point.	Mean Temperature of the Air and Humidity. Vapour pressure.	Mean Temperature of the Air and Humidity. Departure from normal.	Mean Temperature of the Air and Humidity. Relative humidity.	Mean Temperature of the Air and Humidity. Departure from normal.	Total Cloud Amount. Mean amount	Total Cloud Amount. Departure from normal.	Wind Direction Number of Observations. From :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas	oktas									
HYDERABAD																							
Mithi	0000	96	1004·8		1008·2	69·4	67·3	65·4	21·9		89		1·1		0	0	0	0	0	0	0	2	28
	0300		1006·0	—	1009·3	75·1	72·1	69·3	25·6	—	86	—	1·4	—	0	0	0	0	0	6	0	2	22
	1200		1002·6		1005·5	97·8	81·3	74·6	29·0		48		1·5		1	1	0	0	0	9	0	10	9
Nagarparker	0000	178	999·3		1005·5	77·2	68·4	62·0	19·7		62		*		2	0	0	0	0	0	2	18	8
	0300		1001·0	—	1007·1	81·0	71·2	65·2	21·7	—	60	—	*		3	0	0	0	1	2	4	10	10
	1200		998·0		1003·9	98·5	78·0	68·1	23·4		37		*		1	0	0	0	2	7	4	13	3
Umerkot	0000	55	1004·8		1006·7	68·4	64·5	61·6	19·0		78		1·3		1	0	0	1	7	10	0	0	11
	0300		1006·7	—	1008·6	75·8	68·5	63·2	26·5	—	68	—	2·8	—	2	3	0	1	9	10	0	0	5
	1200		1003·2		1005·0	95·4	76·6	66·1	22·5		40		2·7		1	1	0	1	5	9	5	8	0
Chhor	0000	19	1006·3		1007·1	67·5	63·1	59·8	17·8		77		1·4		0	0	0	1	1	7	1	0	20
	0300		1008·2	—	1008·9	75·1	66·5	60·0	18·3	—	62	—	2·5	—	2	1	0	0	4	9	1	0	13
	1200		1004·9		1005·5	95·1	68·1	44·6	11·1		21		2·4		1	0	1	0	0	17	6	2	3
Hyderabad	0000	98	1003·7		1007·2	71·9	64·2	58·2	17·0		65		2·1		1	0	0	1	2	7	1	0	18
	0300		1005·5	+2·5	1008·9	76·7	66·5	59·0	17·7	+0·2	57	+5	2·0	+0·8	2	0	0	0	0	10	1	0	17
	1200		1002·3		1005·6	95·2	69·7	49·7	13·3		26		2·3		2	1	0	0	0	19	0	1	7
Badin	0000	31	1007·8		1008·9	73·4	68·7	67·6	21·8		80		0·7		0	1	0	1	0	24	0	4	0
	0300		1009·0	+1·2	1010·1	76·2	71·2	65·9	23·9	+1·6	75	+9	0·8	−0·4	2	2	0	3	0	22	0	1	0
	1200		1006·9		1007·9	96·5	69·7	50·0	12·7		21		1·1		1	2	0	2	0	17	0	8	0
KHAIRPUR																							
Padidan	0000	153	1001·4		1006·8	67·7	60·9	55·5	15·2		68		1·2		2	1	1	4	1	3	1	1	16
	0300		1003·3	—	1008·6	75·0	63·5	54·2	14·8	—	52	—	1·6	—	2	6	2	9	3	2	2	1	3
	1200		1000·3		1005·4	94·7	67·1	41·9	10·3		21		2·0		2	5	0	3	3	6	3	6	2
Nawabshah	0000	124	1003·3		1007·8	68·1	61·7	56·7	15·9		67		0·9		0	0	0	1	3	1	1	0	24
	0300		1005·1	—	1009·4	74·3	64·9	58·2	16·8	—	59	—	2·2	—	2	0	0	0	2	3	1	3	19
	1200		1002·3		1006·5	94·4	71·1	55·1	15·4		31		2·7		2	2	0	0	6	7	2	2	9
Sukkur	0300	221	1000·7	+0·1	1008·5	74·2	62·8	53·5	14·4	−0·9	51	0	2·8	−1·5	3	3	0	6	6	2	1	1	8
	1200		997·6		1005·0	93·6	69·9	53·5	14·2		29		3·3		4	3	1	1	0	9	6	2	4
Kashmore	0000	225	*		*	69·2	55·5	41·0	8·6		39		1·1		0	1	0	0	0	0	1	0	28
	0300		999·7	—	1008·6	75·1	60·6	47·0	11·6	—	40	—	1·3	—	0	9	0	0	0	0	0	0	21
	1200		996·6		1005·1	97·4	67·5	40·7	9·5		16		1·3		0	5	0	0	1	1	3	0	20
Jacobabad	0000	183	1000·5		1006·9	72·2	61·2	51·9	13·5		52		2·1		4	2	7	5	3	1	4	1	3
	0300		1002·3	+1·1	1008·7	76·6	63·7	53·5	14·3	−2·4	47	+1	2·5	+1·3	4	1	8	5	2	1	0	3	6
	1200		999·1		1005·2	95·0	70·7	53·5	15·6		27		2·8		1	1	0	3	8	8	3	5	1
JUNAGARH																							
Veraval	0000	26	x																				
	0300		(e) 1009·0	—	(e) 1010·0	(e) 77·5	(e) 54·0	(e) 33·8	3·7	—	11	—	(e) 4·0	—	(e) 13	0	1	0	0	0	2	3	7
	1200		(g) 1006·5		(g) 1007·5	(g) 79·3	(g) 74·8	(g) 71·6	27·4		80		(g) 8·3		(g) 2	0	0	0	0	0	19	2	1
EXTRA PAKISTAN																							
Jalalabad (x)	0000	1950																					
	0300																						
	1200																						
ARABIA																							
Muscat (x)	0300	20																					
	1200																						

(e) Mean of 26 days. (g) Mean of 24 days. (*) Data rejected. (x) Data not available.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL, 1961—Contd.

Division and Station.	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure. Station level reduced to standard temperature and gravity.	Mean Pressure. Departure from normal.	Mean Pressure. Reduced to standard temperature and M.S.L. or Geopotential of 850/700 mb. Pressure level in geopotential meters.	Mean Temperature of the Air and Humidity. Dry bulb.	Mean Temperature of the Air and Humidity. Wet bulb.	Mean Temperature of the Air and Humidity. Dew point.	Mean Temperature of the Air and Humidity. Vapour pressure.	Mean Temperature of the Air and Humidity. Departure from normal.	Mean Temperature of the Air and Humidity. Relative humidity.	Mean Temperature of the Air and Humidity. Departure from normal.	Total Cloud Amount. Mean amount.	Total Cloud Amount. Departure from normal.	Wind Direction Number of Observations From :— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a.	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
HILL STATION:	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas	oktas									
KASHMIR																							
Srinagar (x)	0000																						
	0300																						
	1200																						
Gulmarg (x)	0300	...																					
	1200																						
Gurez (x)	0300	...																					
	1200																						
Sonemarg (x)	0300	...																					
	1200																						
Dras (x)	0300	...																					
	1200																						
Kargil (x)	0300	...																					
	1200																						
Leh (x)	0000	...																					
	0300																						
	1200																						
Skardu (x)	0000	7250																					
	0300																						
	1200																						
Misgar	0000	10190	...		...	...	...	...	...		...		...		...	...	...	...	...	...	...	...	...
	0300		(b) 700·0	...	(b) 3103·9	37·3	31·7	23·1	4·3	...	58	...	3·5	...	0	0	2	3	0	0	1	0	24
	1200		698·1		3080·4	49·1	37·4	20·6	4·0		34		4·5		0	1	10	6	0	2	3	1	7
Aliabad (x)	0300	...																					
	1200																						
Gilgit (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	782·9		1482·8	48·2	41·8	33·4	6·7		69		3·5		0	4	6	7	0	3	1	7	2
	0300		784·1	0·0	1488·3	53·1	43·9	32·8	6·5	—0·6	48	—1	3·6	+0·5	1	7	6	7	0	1	2	2	4
	1200		783·6		1477·7	57·3	48·3	39·7	8·3		52		5·3		1	5	6	7	1	0	1	6	3
PESHAWAR																							
Drosh	0000	4806	854·1		1504·2	49·5	44·9	39·3	8·3		68		4·3		0	2	1	2	0	0	0	0	25
	0300		855·2	+0·3	1514·8	51·5	46·1	39·6	8·5	—0·3	65	+6	4·3	+1·2	0	1	4	1	0	1	0	0	23
	1200		852·2		1486·3	64·4	51·5	36·7	7·8		37		5·2		0	5	2	1	0	1	0	0	21
Cherat	0000	4272	*		*	54·3	48·4	42·1	9·2		64		3·1		13	3	0	0	0	0	0	14	0
	0300		*	...	*	57·3	49·1	39·1	8·5	—0·5	54	00	3·2	+0·5	15	6	0	1	0	0	0	8	0
	1200		*		*	65·9	54·8	45·0	10·2		47		3·2		14	5	0	2	0	0	0	9	0
Kakul	0000	4214	870·2		1479·5	54·4	49·1	43·8	9·7		66		3·1		11	5	3	1	1	0	2	7	0
	0300		871·2	...	1489·7	58·9	52·3	46·0	10·8	...	64	...	2·9	...	5	0	1	2	2	2	1	17	0
	1200		869·8		1480·0	67·4	55·9	46·1	10·6		46		4·7		2	2	1	0	6	7	2	10	0
Balakot (R)	0000	3226																					
	0300																						
	1200																						
Landikotal	0000	3503	891·8		1466·5	53·1	49·4	45·4	10·5		77		3·0		0	0	0	1	0	2	0	0	27
	0300		893·1	...	1483·0	59·3	52·7	46·2	10·9	...	64	...	3·0	...	0	0	0	1	0	3	0	0	26
	1200		891·6		1476·2	68·7	56·9	45·9	11·0		47		4·1		0	3	0	8	0	11	0	0	8

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL, 1961—*Concld.*

Division and Station.	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure. Station level reduced to standard temperature and gravity.	Mean Pressure. Departure from normal.	Mean Pressure. Reduced to standard temperature and M.S.L. or Geopotential of 850/700 mbs. Pressure level in geopotential meters.	Mean Temperature of the air and Humidity. Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount. Mean amount.	Departure from normal.	Wind Direction Number of Observations. From :— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a.	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas	oktas									
PESHAWAR—Concld.																							
Parachinar	0000	5673	*		*	*	*	*	...		...		2·8		0	2	0	4	0	0	0	4	20
	0300		*	...	*	51·4	45·3	38·2	8·1	—0·3	63	5	1·9	—1·0	0	1	0	1	0	2	0	3	23
	1200		*		*	62·2	50·3	37·4	8·2		43		3·4		0	2	3	9	1	3	1	3	8
D. I. KHAN																							
Miranshah (Surface)	0000	3026	*		*	55·8	49·0	41·5	9·2		60		1·9		0	3	0	0	0	0	0	0	27
	0300		908·3	...	1479·9	61·7	53·8	47·6	11·4	—1·7	58	+7	1·4	—0·7	0	5	0	0	0	0	0	0	25
	1200		906·3		1473·0	74·2	60·5	51·0	12·4		43		2·4		0	3	0	0	0	0	0	0	27
Wana	0300	4503	*	...	*	56·3	50·1	43·6	9·8	—1·2	64	+5	2·7	+0·5	0	0	0	0	0	0	0	0	30
	1200		*		*	68·8	55·9	43·8	10·1		42		4·9		1	3	0	5	0	3	1	3	14
QUETTA																							
Fort Sandeman P.T.	0300	4614	859·5	—0·7	1498·5	58·9	49·6	38·7	8·4	—0·4	52	—11	2·3	+0·3	2	3	1	0	3	8	5	3	5
	1200		857·3		1479·4	72·3	52·9	28·2	5·9		27		4·9		2	2	2	6	1	6	7	4	0
,, ,, P.B.O. (R) ...	0000	4615																					
	0300																						
	1200																						
Hindubagh	0000	5909	819·6		1495·3	50·4	44·6	39·1	8·0		66		0·0		0	0	0	0	0	0	7	0	23
	0300		819·8	...	1495·4	53·5	47·4	41·2	9·0	...	66	...	3·2	...	0	0	1	1	0	4	13	0	11
	1200		818·1		1469·6	66·4	54·3	44·7	10·0		48		3·7		2	0	0	0	5	6	16	1	0
Loralai	0000	4699	854·1		1471·1	52·5	*	*	*		*		3·1		1	1	1	0	0	8	10	4	5
	0300		855·2	...	1482·6	57·0	*	*	*	...	*	...	3·8	...	0	0	0	0	0	5	10	5	10
	1200		853·1		1463·1	72·3	*	*	*		*		5·3		0	2	0	8	6	9	1	3	1
Barnai	0300	...											*		*	*	*	*	*	*	*	*	*
	1200												*		*	*	*	*	*	*	*	*	*
Quetta Samungli	0000	5213	839·5		1484·2	48·0	43·6	38·8	8·1		73		2·9		0	0	0	10	1	3	0	1	15
	0300		840·9	...	1496·9	53·4	46·9	40·1	8·3	...	63	...	3·2	...	1	0	2	8	2	1	0	2	14
	1200		839·2		1474·1	68·3	51·5	33·7	7·0		34		4·1		1	0	1	2	1	2	9	12	2
,, P.T.	0300	5490	831·3	—1·5	1483·3	58·1	52·2	47·8	11·2	—2·1	69	+6	2·4	+0·3	5	1	2	2	1	2	1	4	12
	1200		829·9		1465·3	67·4	60·4	56·3	15·4		67		3·4		3	0	0	2	0	3	3	12	7
,, P.B.O.	0000	5560	829·6		1526·7	48·9	41·1	33·0	6·2		57		2·5		0	0	1	2	0	0	0	0	27
	0300		830·3	...	1532·0	56·5	48·6	37·6	8·9	...	52	...	2·6	...	0	2	1	8	0	4	1	6	8
	1200		829·4		1518·6	67·6	51·4	35·3	7·2		35		4·6		0	1	0	2	0	4	4	8	11
Chaman	0000	4311	866·7		1476·0	56·8	47·7	36·5	7·6		52		2·5		1	0	12	7	0	0	4	0	6
	0300		867·8	—0·2	1489·1	62·6	50·8	37·5	7·9	—0·8	45	0	3·3	+0·9	1	0	7	6	1	1	1	2	11
	1200		865·7		1471·2	71·7	54·0	34·4	7·1		30		3·6		1	0	2	4	2	3	10	6	2
Nushki	0000	3416	*		*	61·4	51·6	41·3	9·1		49		1·2		0	5	16	0	0	0	0	1	8
	0300		901·9	...	1544·1	68·3	55·0	42·5	9·4	...	41	...	1·8	...	1	6	14	2	0	0	1	3	3
	1200		899·3		1530·0	78·9	60·1	45·1	10·1		30		2·5		3	1	1	0	1	1	1	19	3
Dalbandin	0000	2785	914·9		1465·4	59·8	48·8	34·8	7·3		43		2·5		5	8	2	1	1	2	0	2	9
	0300		916·6	+0·8	1484·4	62·6	50·4	34·9	7·4	—1·8	41	—4	2·2	+0·3	1	12	3	0	0	0	0	1	13
	1200		913·6		1479·9	82·8	57·8	30·5	6·3		18		3·7		2	6	2	3	4	8	2	3	0
KALAT																							
Kalat (R)	0000	6616																					
	0300																						
	1200																						
Panjgur	0000	3177	903·2		1477·5	61·4	52·4	42·4	9·8		54		1·9		8	13	0	0	2	4	1	2	0
	0300		904·4	+1·3	1491·0	63·8	53·3	43·3	9·7	—2·9	50	—13	2·4	+1·1	5	18	0	1	0	5	0	1	0
	1200		902·0		1486·5	81·1	59·2	36·4	8·4		24		2·6		5	2	0	0	1	16	1	5	0
EXTRA PAKISTAN: AFGANISTAN																							
Kabul	0300	5955	x	...	x	50·6	*	*	*	...	*	...	2·6	—0·4	2	2	0	4	0	15	0	7	0
	1200		x		x	59·5	*	*	*		*		3·3		1	1	0	14	0	6	0	8	0
Kandahar	0300	3462	896·5	...	1499·5	56·7	51·8	47·2	11·1	...	71	...	3·0	...	0	2	2	0	0	0	0	0	26
	1200		894·1		1489·3	71·3	59·7	50·5	12·8		49		3·1		1	1	3	0	0	5	2	0	18

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF APRIL, 1961.

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (Inches)						Wind Velocity (Knots)		Weather Number of Days.				
																			Visibility Code, Figure 93 or Less.		
	Mean.	Departure from normal	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	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.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST PAKISTAN																					
CHITTAGONG :																					
Rangamati	96·2		101	15,16	74·4		67	3	1·92		1·04	19	3		×		4	0	10	0	0
Cox's Bazar (P.T.)	90·6	+1·9	94	7,8	75·6	+2·2	68	19,20	1·15	—3·05	0·85	20	2	2·2	×		4	0	0	0	0
Chittagong (Patenga)	91·1		94	2	76·8		68	19	1·73		0·98	19	2		×		5	0	0	0	0
Chittagong (P.T.)	91·0	+2·2	96	2	76·1	+2·9	66	20	4·47	—1·46	2·88	20	3	—2·8	×		3	0	0	0	0
Maijdee Court	91·8	+2·9	95	9,10	75·7	—0·7	66	5	3·91	—1·56	1·10	19	6	+0·4	×		1	0	0	0	0
Comilla	94·1	+1·8	101	16	74·8	+1·5	66	4	6·93	+1·08	2·54	21	6	—0·5	×		9	0	0	0	0
Brahmanbaria	94·2	—1·1	103	15,16	73·8	+3·6	62	20	2·47	—4·00	1·68	19	3	—3·9	4·5		8	0	0	0	0
Sylhet (P.B.O.)	89·2		96	17	72·2		62	3	6·94		2·26	21	6		×		6	1	0	0	0
Srimangal	93·4	+1·3	101	16	71·8	+2·5	61	3	2·64	—7·07	1·22	30	4	—5·9	2·2	—1·4	2	0	0	0	0
DACCA :																					
Mymensingh	95·3	+4·2	105	16	73·8	+2·1	63	3	1·84	—3·67	0·82	21	5	—2·1	×		8	0	1	0	0
Jamalpur (R)																					
Narayanganj	94·6	+2·2	104	16	76·0	+2·0	68	3	3·80	—1·60	1·05	30	7	+0·3	3·9	—0·2	5	1	2	0	0
Dacca (Tejgaon)	95·4		105	15,16	75·2		65	3	3·40		1·67	5	7		6·1		11	2	0	0	0
Faridpur	96·7	+2·9	107	15	74·6	+1·6	65	3,9	3·62	—1·05	2·32	28	5	—1·3	(M) 4·7	—1·5	6	0	0	0	0
KHULNA :																					
Barisal	93·8	+1·8	100	14	76·6	+1·5	64	4	1·86	—2·37	0·95	20	4	—1·3	×	—	4	0	0	0	0
Khulna	95·9	+1·7	105	14	77·1	+1·8	70	10	1·47	—1·44	0·95	29	2	—2·2	2·9	—1·0	3	0	0	0	0
Satkhira	97·4	+0·4	105	14,15	77·3	+1·7	69	3,10	4·41	+1·48	2·45	1	5	+1·0	1·6	—1·5	2	2	0	0	0
Jessore (P.T.)	97·5	+0·9	105	14,15	75·9	+2·3	64	10	0·49	—3·04	0·40	3	1	—3·8	5·5	+2·7	1	0	2	0	0
RAJSHAHI :																					
Pabna	99·9	+3·1	108	23	75·0	+3·4	65	3	1·84	—0·71	1·75	29	1	—3·5	+	—	9	0	0	0	4
Ishurdi	101·0		109	23	73·1		62	9	0·88		0·63	29	2		×		3	0	0	0	0
Sirajganj	98·2		107	15,23	72·2		63	9	1·88	—1·39	0·88	30	3	—1·8	3·2		5	1	0	0	0
Rajshahi (R)																					
Bogra (P.B.O.)	99·7	+4·1	108	23,24	72·9	+1·4	63	3	1·18	—1·06	1·01	30	1	—2·5	2·9	+0·5	6	0	0	0	0
Dinajpur	98·1	+3·8	110	25	71·8	+1·8	62	9	0·45	—1·69	0·30	21	2	—1·0	×		3	0	0	0	0
Rangpur	94·3		103	15,16	70·3		59	9	2·22	—9·86	1·13	21	4	—0·4	3·1		5	0	2	0	0

(M)—Mean for 18 days

(R)—Register not received.

TABLE III—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF APRIL, 1961—Contd.

Division and Station.	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (Inches)						Wind Velocity (Knots)		Weather Number of Days.				
																			Visibility Code Figure 93 or Less.		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	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.	Thunder heard.	Hail.	Fog.	Haze (dust)	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR :																					
Jammu (x)																					
LAHORE :																					
Lahore (P.B.O.)	91·5 (g)	—3·0	104	28,29,30	65·8 (g)	+2·6	57	8	0·86 (g)	+0·29	0·28	11	3	+1·4	2·9 (h)	+0·9	4	1	0	0	0
Lahore (Cantt.)	92·3	—	105	30	65·4 (b)	—	58	7,8	0·31		0·17	13	2	—	3·9 (d)	—	1	0	0	0	1
Sialkot	91·1	—1·1	104	30	65·8	+1·1	58	14	0·89	—0·11	0·28	5	4	1·0	2·1	+0·2	2	0	0	0	1
RAWALPINDI :																					
Jhelum	88·1	—	101	26,31	62·2	—	55	7,8	3·94	—	1·95	11	5	—	2·7	—	7	0	0	0	0
Chakiala	82·1	—	97	29	58·2	—	50	7	4·91	—	1·67	11	6	—	6·2	—	11	0	0	0	1
Rawalpindi	82·3	—3·9	97	29,30	59·0	—0·3	52	7,14	4·85	+2·93	1·18	13	7	+2·9	3·1	+0·7	8	0	0	0	0
Campbellpur	*	—	—	—	57·6	—	52	5	5·20	—	2·04	11	7	—	1·4	—	0	0	0	0	0
SARGODHA :																					
Khushab	90·3	—2·6	103	27,29	62·9	—3·8	56	5,23	1·16	+0·25	0·60	12	5	—2·9	3·9	—0·7	1	0	0	0	1
Sargodha ✓	89·4	—	103	29	61·9	—	54	8	1·53	—	0·62	14	4	—	2·8	—	7	0	0	0	1
Mianwali	86·0	—	101	27,29	60·9	—	51	14	2·71	—	0·70	2	6	—	(x)	—	0	0	0	0	0
Lyallpur	89·6	—3·3	102	28,29	63·6	—0·3	57	8,14	0·37	—0·10	0·37	12	1	—0·3	2·5	+0·3	2	0	0	0	1
MULTAN :																					
Montgomery	93·4	—2·3	106	28	64·8	—1·8	56	8	0·51	+0·17	0·46	13	1	+0·1	(x)	—	2	0	0	0	1
Multan (P.B.O.)	93·9	—	108	28	64·9	—	56	7	0·14	—	0·14	13	1	—	3·6	—	5	0	0	1	1
Multan (S)	93·6	—1·7	107	28	67·6	—0·1	59	7	0·28	+0·01	0·26	13	1	+0·2	(x)	—	3	0	0	1	1
Leiah	*				*				0·24		0·24	10	1	—	(x)	—	0	0	0	0	1
BAHAWALPUR :																					
Khanpur (P.B.O.)	95·6	—	108	28,29	64·3	—	56	22	0·34	—	0·33	13	1	—	4·4	—	0	0	0	1	1
Bahawalpur	95·8	—0·6	108	29	66·2	+0·8	60	7	0·57	+0·39	0·40	12	2	+1·5	3·1	+0·5	0	0	0	0	0
Fort Abbas	96·0	—	112	29	65·7	—	59	8	0·00	—	0·00	—	0	—	*	—	0	0	0	0	0
PESHAWAR :																					
Chakdara	77·7	—	94	30	53·8	—	49	11	8·33	—	1·86	10	9	—	(x)	—	3	0	0	0	0
Peshawar	81·0	—4·2	96	30	57·9	—2·6	52	4 days	3·56	+1·80	1·31	4	7	+3·2	2·4	—0·5	12	0	0	0	0
Risalpur	80·6	—	99	30	56·5	—	51	7,23	5·58	—	1·71	4	6	—	2·8	—	8	0	0	0	1
Haripur	82·1	—	96	29,30	55·9	—	42	2	4·29	—	2·16	11	8	—	5·2	—	0	0	0	0	0
Kohat	81·7	—	96	28	61·5	—	53	11	3·73	—	1·50	4	5	—	5·8	—	8	1	0	0	[illegible]
D. I. KHAN :																					
Bannu	83·1	—5·3	97	27,28,29	59·2	—2·8	50	12	2·69	+1·71	1·37	4	5	+2·5	2·2	—	3	0	0	0	0
D. I. Khan	90·1	—2·5	103	27,28,30	63·8	—1·4	54	12	0·61	—0·08	0·24	12	3	+1·3	1·4	—0·3	0	0	0	0	0

(g)—Mean for 24 days. (h)—Mean for 23 days. (b)—Mean for 29 days. (d)—Mean for 29 days. (*)—Data rejected. (x)—Data not available

TABLE III—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF APRIL, 1961—Contd.

Division and Station.	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (Inches).						Wind Velocity (Knots).		Weather Number of Days.				
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	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.	Thunder heard.	Hail.	Visibility Code Figure 93 or Less. Fog.	Haze (dust)	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
QUETTA.																					
Sibi	95·6	—2·1	112	28	70·3	+0·2	60	13	0·83	+0·72	0·46	3	2	+1·6	2·7	—0·6	2	1	0	0	0
KALAT.																					
Nokkundi	87·9	—2·3	102	30	62·2	—0·9	52	4	0·00	—0·35	0·00	—	0	—0·4	×	—	0	0	0	0	0
Turbat	97·7	—	110	30	×	—	—	—	3·12	...	2·54	9	3	—	×	—	0	0	0	0	0
Jiwani	86·2	—	99	27	69·2	—	63	8	2·89	...	1·82	8	4	—	8·6	—	3	0	5	0	0
Pasni	88·7	—2·0	100	28	69·7	+1·9	62	7.10	2·35	+1·95	1·77	9	2	+1·5	*	—	1	0	0	0	0
KARACHI FEDERAL TERRITORY.																					
Ormara	87·8	—1·8	100	23	70·8	—2·3	65	13.25	3·00	+2·40	2·25	9	3	+2·2	7·7	—1·9	0	0	0	0	0
Las Bela	97·8	+0·1	111	28	67·8	+3·0	62	6,24	(b) 0·00	—	(b) 0·00	—	(b) 0	—	×	—	1	0	0	0	0
Karachi Manora	88·2	+2·8	104	24	71·5	—2·7	65	9	0·23	+0·08	0·23	9	1	+0·8	×	—	1	0	0	0	0
,, Mauripur	88·9	—	101	25	71·6	—	67	6	0·89	—	0·52	9	2	—	6·5	—	2	0	0	0	0
,, City	89·3	—	103	25	70·1	—	65	13	0·90	—	0·53	9	2	—	5·7	—	1	0	0	0	0
,, P.A.F. (x)																					
,, Air Port	91·2	—	105	26	69·9	—	64	24	0·46	—	0·45	9	1	—	6·9	—	1	0	0	0	0
Gadap	(e) 92·7	—	103	21	(d) 66·2	—	61	1	(d) 1·70	—	1·00	10	3	—	4·8	—	0	0	0	0	0
HYDERABAD.																					
Mithi	101·6	—	113	27	67·4	—	57	25	1·15	—	0·65	10	2	—	2·2	—	0	0	0	0	0
Nagarparker	100·1	—	112	28	×	—	—	—	(c) 0·00	—	0·00	—	0	—	×	—	0	0	0	0	0
Umarkot	99·1	—	110	4 days	66·9	—	58	2,3	1·95	—	1·40	10	4	—	3·6	—	0	0	0	0	0
Chhor	98·4	—	109	26	65·8	—	56	22	2·45	—	2·26	10	2	—	2·7	—	2	0	0	0	0
Hyderabad	99·2	—2·6	110	29	70·7	+1·2	63	13	0·74	+0·67	0·67	9	1	+0·8	2·9	—2·7	0	0	0	0	0
Badin	100·2	—0·2	112	26	68·8	+1·3	60	22	0·65	+0·65	0·65	12	1	+1·0	×	—	0	0	0	0	0
KHAIRPUR.																					
Padidan	96·6	—	110	27,28	67·5	—	55	22	0·55	—	0·30	10	2	—	4·4	—	0	0	0	0	0
Nawabshah	96·8	—	110	28	66·4	—	58	23	1·55	—	1·55	9	1	—	2·9	—	1	0	0	0	0
Sukkur	95·5	—2·7	107	27,28,29	68·0	—0·4	59	13	0·50	+0·40	0·30	10	2	+1·6	(h) 2·3	—1·1	1	0	0	0	0
Kashmore	98·0	—	104	4 days	66·2	—	49	3	(c) 0·00	—	0·00	—	0	—	×	—	0	0	0	0	0
Jacobabad	96·7	—2·9	110	29	70·2	—0·5	60	13	0·38	+0·21	0·36	13	1	+0·5	6·5	+1·8	2	0	0	0	0
JUNAGARH.																					
Veraval (x)	×		—		×		—		(e) 0·00	—	0·00	—	0	—	×	—	0	0	0	0	0
EXTRA PAKISTAN.																					
Jalalabad (×)																					
ARABIA																					
Muscat (×)																					

(d) Mean for 27 days. (e) Mean for 26 days. (h) Mean for 23 days. (c) Mean for 28 days. (*) Data rejected. (x) Data not available.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF APRIL, 1961—*Concld.*

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (Inches)						Wind Velocity (Knots)		Weather Number of Days.				
																			Visibility Code Figure 93 or Less.		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date	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.	Thunder heard.	Hail.	Fog.	Haze (dust.)	Dust Storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
HILL STATIONS :																					
KASHMIR :																					
Srinagar (x)																					
Gulmarg (x)																					
Gurez (x)																					
Sonamarg (x)																					
Dras (x)																					
Kargil (x)																					
Leh (x)																					
Skardu (x)																					
Misgar	53·8	—	63	17	31·8	—	23	7	1·03	—	0·25	6,21	4	—	1·1	—	1	0	0	0	0
Aliabad (x)																					
Gilgit (x)																					
RAWALPINDI :																					
Murree	61·6	—3·7	74	27,29,30	44·8	—2·1	38	11,13	10·62	+6·49	2·65	11	12	+4·9	8·0	+2·8	9	4	4	0	0
PESHAWAR																					
Dtosh	67·9	—1·0	87	27,30	47·0	—1·4	32	11	7·61	+3·53	1·61	10	14	+5·9	2·7	+0·1	1	0	0	0	0
Cheral	70·2	—1·9	86	27,28,30	50·7	—5·1	44	4,10	13·13	+10·35	3·70	4	10	+5·3	4·2	—2·9	0	0	0	0	2
Kakul	71·6	—	86	27	52·8	—	46	3,11,13	10·01	—	2·12	13	13	—	x	—	13	4	0	0	0
Balakot (R)																					
Landikotal	72·9	—	88	30	50·5	—	44	8	4·86	—	1·75	4	9	—	x	—	11	1	0	0	0
Parachinar	66·5	—2·2	82	28	45·3	—1·6	38	6,11	11·09	+7·06	2·16	2	13	+4·3	2·8	+0·4	0	0	0	0	0
D. I. KHAN.																					
Miranshah	76·2	—2·1	91	28	54·9	—2·3	45	12	2·44	+0·81	0·68	4	6	+2·1	*	—	0	0	0	0	0
Wana	73·1	—3·6	89	27	48·5	—1·1	42	5	5·40	+4·03	1·50	4	9	+5·2	1·0	—	0	0	0	0	0
QUETTA :																					
Fort Sandeman P. T.	76·2	—4·1	91	27	53·5	—1·0	43	12	2·32	+1·38	0·95	3	5	+1·9	x	—	0	0	0	0	0
" " P. B. O. (R) ...																					
Hindubagh	67·2	—	83	27,30	44·6	—	37	2,10	3·36	—	1·77	10	4	—	4·6	—	0	0	0	0	0
Loralai	75·6	—	88	27,28,30	44·1	—	36	11	2·57	—1·62	0·75	4	5	+2·6	3·0	—	0	0	0	0	0
Harnai									6·83	+6·08	2·14	11	8	+6·1	x	—	2	0	0	0	0
Quetta Samungli	70·8	—	87	27	44·6	—	35	5,6	2·88	—	1·64	10	3	—	x	—	9	0	0	0	0
" P. T.	68·9	—	86	27	45·6	—	37	4 days	2·42	—	1·35	10	2	—	3·4	+0·6	4	0	0	0	0
" P. B. O.	70·1	—	86	27	47·0	—	39	5,12	2·09	—	0·99	10	4	—	3·4	—	4	0	0	0	0
Chaman	73·1	—5·5	90	30	54·7	—1·3	44	4,12	3·05	—2·28	0·85	10	5	+3·0	x	—	3	0	0	0	0
Nushki	81·5	—	97	30	60·2	—	51	22	1·65	—	1·00	10	4	—	x	—	0	0	0	0	0
Dalbandin	85·0	—4·2	98	26,27,30	55·8	—2·0	46	22	0·11	—0·19	0·11	1	1	+0·3	4·7	+0·4	3	0	0	1	0
KALAT :																					
Kalat (R)																					
Panjgur	82·4	—6·1	95	27,30	58·4	—0·8	51	13	0·73	+0·34	0·51	10	2	+1·2	x	—	1	0	0	0	0
AFGHANISTAN :																					
Kabul	62·3	—3·0	79	27,28	41·9	—0·8	35	5	5·43	+2·13	0·73	4	13	+6·7	x	—	1	2	0	0	0
Kandahar	74·6	—	90	27,30	51·6	—	44	4	4·68	—	2·45	9	5	—	1·0	—	4	1	0	0	0

x Data not available. * Data rejected.

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

(d) Mean for 27 days.
(e) Mean for 26 days.
(h) Mean for 23 days.

GPPD—S-3—422 (Civil) 62—10-2-65—200.

REGD. No. S - 1452

PAKISTAN WEATHER REVIEW, 1961

MONTHLY WEATHER REPORT

May

(PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN)

Chief Features:

Two cyclonic storms caused widespread damage, loss of human life and disruption of communications in East Pakistan.

Ten western disturbances affected weather over West Pakistan.

East Pakistan

Two cyclonic storms affected the region during the month. The first storm started as a deep depression in the Andaman Sea where it had moved from the east and was centred at 0300 hours GMT of the 6th within one degree of Latitude 12°N and Longitude 93°E. It moved northwestwards and was centred next morning within a degree of Latitude 13½°N and Longitude 92½°E. Continuing to move in the same direction it intensified into a cyclonic storm with its centre on the 8th morning near Latitude 16½°N and Longitude 91°E. It then took a move northerly track and was centred at 0300 hours GMT on the 9th about 50-100 miles northwest of Cox's Bazar. It crossed coast the same day between Chittagong and Barisal, weakened rapidly and was centred as a deep depression around Sylhet in the evening. It further weakened into a low by the next morning and ultimately moved away northeastwards. As a result, heavy to very heavy rain fell throughout the province outside Rajshahi Division on the 9th and the 10th with fairly widespread rain or thundershowers on the 11th and scattered rain fall in the Khulna and Rajshahi Divisions on the 13th.

The storm caused widespread havoc over most of East Pakistan resulting in heavy loss of human life and property and disruption of communications.

Conditions again became markedly unsettled in the Andaman Sea on the 27th morning and a depression was formed by the same evening with centre within a degree of Latitude 15°N and Longitude 95°E. It moved northwestwards and was centred near Latitude 17°N and Longitude 92½°E on the 28th morning. Moving further northwestwards and intensifying, it lay as a deep depression at 0300 hours GMT of the 29th with its centre within a degree of Latitude 20°N and Longitude 90½°E. It subsequently took a move northerly track and was centred as a deep depression the same evening within a degree of Latitude 20½°N and Longitude 90½°E. It later intensified into a cyclonic storm of small extent and moved northnortheastwards being centred at 3 hours GMT on the 30th near Latitude 22°N and Longitude 92°E. Continuing to move in the same direction, it crossed coast near Feni by the afternoon and weakened rapidly into a depression by the evening, when it was centred about 50 miles east-northeast of Comilla. It ultimately moved away northeastwards as a low pressure wave. No loss of life or property was reported. The Monsoon extended into the province in its wake and fairly widespread rain or thundershowers with locally moderate to heavy falls occurred in Dacca and Chittagong Divisions on the 31st and over the whole region during the last two days of the month.

In addition to these two cyclonic storms, three western disturbances crossed East Pakistan and caused local or fairly widespread rain or thundershowers over most of the province during the first four days of the month and only in Rajshahi Division on the 6th and the 7th when scattered rain or thundershowers occurred elsewhere. Again during the middle of the month, due to the passage of low pressure waves from the west generally scattered rain fell all over the region. Another western disturbance crossed East Pakistan during the third week and gave rise to generally widespread rain or thundershowers on the 22nd and the 23rd and scattered or local rain or thunderstorms on a few days.

Chief amounts of rainfall during the month were:—Barisal and Satkhira 3" each on the 9th; Khulna 10" and Dacca 6" Narayanganj 8" and Sylhet 6" on the 10th; Rangpur 3" on the 22nd; Cox's Bazar, Maijdee Court and Comilla about 3" each on the 23rd ; Sylhet 3" on the 25th and Brahmanbaria, Narayanganj, Mymensingh and Dacca 4" each and Barisal 3" on the 31st.

The total rainfall during the month was in moderate excess in Dacca division, in slight defect in Chittagong division, and normal over rest of the region. Averaged over the region, it was normal.

The mean maximum and the mean minimum temperatures were normal everywhere except in Rajshahi division, where the mean minimum temperature was above normal.

The mean relative humidity and the mean cloud amount were normal over the region.

West Pakistan

Four western disturbances moving across the province during the first week caused local or fairly widespread rain or thundershowers in the northern division except D. I. Khan. Scattered or local rain or thundershowers were also reported from Quetta and Kalat divisions on the 4th, 5th and 6th and from Bahawalpur, and Khairpur divisions on the 4th. Scattered thunderstorms occurred in most of the northern divisions and in Hyderabad division on the 5th and the 7th. Thereafter, three westerly low pressure waves moving across the region were responsible for fairly widespread thunderstorms in Rawalpindi division and scattered or local rain or thundershowers in the remaining northern divisions on the 8th. Scattered thunderstorms also occurred in Hyderabad division and light rain or drizzle occurred in Rawalpindi, Peshawar, Bahawalpur and Quetta divisions on the 9th.

A secondary western disturbance moved across Kashmir towards the end of the second week with its trough extending to Multan division and was quickly followed by two westerly low pressure waves. They were responsible for local or fairly widespread rain or thundershowers in Lahore division on the 12th and the 15th; in Rawalpindi division on these days and on the 13th; in Sargodha division on the 12th and the 14th and in Peshawar division on the 13th and the 15th. Scattered thunderstorms also developed in Lahore, Peshawar, Quetta and D. I. Khan divisions occasionally between 11th and the 15th.

Three feeble secondary western disturbances however, caused scattered thunderstorms in Rawalpindi and Peshawar divisions on the 16th; in the Karachi Federal Territory on the 17th; in Peshawar division on the 18th in Quetta division on the 20th and in Sargodha, Peshawar and Multan divisions on the 21st. Two more secondary western disturbances moved across the region thereafter and caused scattered to local rain or thundershowers in Multan division on the 22nd; in Peshawar, D. I. Khan and Bahawalpur divisions on the 24th.

During the last week of the month the passage of two westerly low pressure waves caused scattered thunderstorms or showers in

Rawalpindi division between the 27th and the 29th.

Chief amounts of rainfall during the month were:—Parachinar 1-½" on the 3rd, Parachinar 1" on the 8th, Murree 1½" on the 14th and Kakul 2" on the 23rd.

The total rainfall during the month was in large excess in Sargodha, Multan and Kalat divisions, in moderate excess in D. I. Khan division and normal in Lahore, Rawalpindi and Quetta divisions. It was in moderate defect in Bahawalpur and Peshawar divisions and in large defect elsewhere.

The mean maximum temperature was normal over the region outside Peshawar division, where it was above normal.

The mean minimum temperature was below normal in the Karachi Federal Territory and normal over rest of the region.

The mean relative humidity was normal everywhere, except in Quetta and Hyderabad divisions where it was in defect.

The mean cloud amount was in defect in Sargodha, Peshawar, D. I. Khan, Quetta and Kalat divisions, normal in Lahore and Bahawalpur divisions and in excess elsewhere.

Table I contains divisional means of rainfall, temperature, humidity and cloud amount for the 16 divisions of Pakistan. These means are based on the Observations at the Stations whose monthly means are given in the subsequent tables.

TABLE I.—DIVISIONAL MEANS FOR MAY, 1961.

Division	PRECIPITATION				DEPARTURE FROM NORMAL OF				
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	0300 hrs. G. T. M.		
							Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	Mb.	%	
EAST PAKISATN									
Chittagong	9.00	11.76	—2.76	—23	+1.0	+1.9	+1.3	0	+0.4
Dacca	13.75	10.57	+3.18	+30	+1.3	+1.6	+2.1	+1	0.0
Khulna	8.37	7.75	+0.62	+8	+0.2	+1.2	+2.5	+5	—0.1
Rajshahi	7.61	8.40	—0.79	—9	+1.6	+2.0	+1.3	—1	—0.4
Mean	9.56	9.75	—0.19	—2	+1.0	+1.7	+1.7	+1	0.0
WEST PAKISTAN									
Kashmir (x)...									
Lahore	0.81	0.79	+0.02	+3	—1.3	+1.7	+0.9	+2	—0.1
Rawalpindi	1.89	1.93	—0.04	—2	—1.2	+0.1	0.0	+2	+0.5
Sargodha	0.93	0.59	+0.34	+58	—1.7	—0.4	+1.8	+5	—0.5
Multan	0.57	0.35	+0.22	+63	—0.8	+0.6	—2.7	—5	+0.9
Bahawalpur	0.09	0.18	—0.09	—50	+0.1	+1.6	—0.4	0	+0.2
Peshawar	1.12	1.66	—0.54	—33	+2.7	+1.0	+0.6	0	—0.7
D. I. Khan	0.49	0.74	+0.25	+34	+0.1	+0.5	+0.6	+3	—0.4
Quetta	0.42	0.39	+0.03	+8	+0.8	+1.8	—0.1	—6	—0.2
Kalat	0.25	0.09	+0.16	+178	—1.3	—1.0	0.0	—3	—0.6
Karachi Federal Territory	0.00	0.16	—0.16	—100	+1.6	—2.0	—0.4	—2	+0.9
Hyderabad	0.00	0.20	—0.20	—100	—1.7	+0.2	+1.1	+7	+0.6
Khairpur	0.00	0.14	—0.14	—100	+0.7	—0.7	—0.7	+1	+0.5
Mean	0.44	0.46	—0.02	—4	—0.3	+0.3	0.0	—1	—0.1
Junagadh (x)									

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
EAST PAKISTAN																							
Chittagong Division																							
Rangamati	0000	208	998.4		1005.6	78.6	76.3	75.3	29.9		90		4.4		4	0	2	3	19	0	1	2	0
	0300		999.9		1006.9	86.0	78.3	74.9	29.6		70		4.0		1	0	1	5	20	0	2	2	0
	1200		996.1		1003.1	86.9	78.4	74.5	29.3		68		3.8		0	1	1	0	22	3	2	0	2
Cox's Bazar (P.T.)	0300	38	1004.6	—1.2	1005.9	85.4	80.0	77.7	32.6	+1.2	79	+1	4.1	—0.3	2	1	0	2	15	9	0	1	1
	1200		1001.3		1002.6	84.6	79.5	77.3	32.1		80		4.3		0	0	2	1	10	11	5	1	1
Chittagong (Patenga)	0000	20	(a) 1003.6		(a) 1004.3	(a) 80.0	(a) 78.4	(a) 78.0	(a) 32.2		(a) 78		(a) 5.4		0	2	4	18	(a) 0	0	1	1	4
	0300		1004.9		1005.6	85.8	81.1	78.8	34.2		80		5.3		0	3	2	14	8	1	1	0	2
	1200		1001.6		1002.3	86.3	81.5	79.6	34.6		79		4.3		0	1	1	2	7	13	4	0	3
Chittagong (P.T.)	0300	46	1004.3	—1.3	1005.8	85.5	79.3	75.7	31.4	+1.0	74	—3	4.8	+0.4	1	3	0	12	(a) 13	0	0	1	0
	1200		1000.7		1002.3	85.2	79.0	76.2	31.0		75		3.5		0	0	1	4	(a) 9	11	4	0	1
Maijdee Court	0000	25	1002.9		1003.7	79.2	77.4	76.6	31.3		92		3.0		0	0	1	5	7	1	0	0	17
	0300		1004.0	—1.8	1004.8	84.9	80.1	78.1	32.9	+1.1	81	+2	4.5	+0.6	0	1	0	8	14	0	0	0	8
	1200		1000.9		1001.7	86.0	80.4	78.0	32.9		77		4.1		1	0	2	3	18	2	1	0	4
Comilla	0000	29	1002.6		1003.6	78.9	77.3	76.7	31.3		92		3.5		1	3	0	2	11	0	0	0	14
	0300		1003.5	—2.2	1004.5	85.8	79.8	77.5	32.1	+1.1	75	0	4.8	+1.0	0	2	0	7	10	0	0	0	12
	1200		999.9		1000.9	86.7	80.4	77.8	32.6		75		3.9		1	2	0	1	18	0	1	0	8
Brahmanbaria	0000	32	1002.7		1003.8	78.5	76.2	75.3	29.8		90		3.5		0	5	0	1	14	0	0	0	11
	0300		1004.2		1005.3	84.5	78.7	76.2	30.9	+2.0	77	+2	4.4		3	3	2	5	16	2	0	0	0
	1200		999.9		1001.0	86.6	79.9	77.0	31.9		73		3.6		3	3	1	3	12	3	0	0	6
Sylhet (P.B.O.)	0000	115	10 0.2		1004.2	76.1	73.8	72.7	27.5		89		5.5		0	1	11	3	1	1	0	1	13
	0300		1001.5		1005.4	81.9	76.8	74.3	29.2		79		4.8		0	1	15	7	4	0	0	0	4
	1200		996.9		1000.8	85.2	79.0	76.2	31.0		75		4.2		2	4	6	3	1	0	0	1	14
Srimangal (R)	0000	69																					
	0300																						
	1200																						
Dacca Division																							
Mymensingh	0000	62	1001.7		1003.8	77.9	76.5	76.0	30.6		94		4.9		0	0	2	6	0	1	1	0	21
	0300		1003.2	—1.6	1005.3	83.1	79.0	77.1	32.0	+3.4	83	+4	4.3	—0.9	0	0	8	18	0	1	3	0	1
	1200		998.6		1000.7	87.5	81.0	78.3	33.2		75		3.4		0	0	6	9	0	1	0	0	15
Jamalpur (R)	0000																						
	0300																						
	1200																						
Narayanganj	0000	26	1002.5		1003.4	79.5	77.5	76.8	31.3		91		4.5		0	1	5	4	10	0	0	0	11
	0300		(a) 1004.0	—1.5	(a) 1004.9	(a) 86.2	(a) 80.0	(a) 77.1	(a) 32.0	+1.2	(a) 74	—3	(a) 4.6	—0.2	0	1	6	6	(a) 12	0	3	1	1
	1200		999.6		1000.4	87.6	80.5	77.7	32.3		73		3.5		1	0	4	6	13	1	1	2	3

(a) Observation for 30 days. (R) Register not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1961.

DIVISION AND STATION	Hours of observation.	Height of barometer cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Dacca (Tejgaon)	0000	32	1001.8		1003.0	78.7	77.0	76.1	30.9		93		5.0		1	2	0	6	9	1	1	0	11
	0300		1003.3		1004.4	84.8	79.6	77.5	32.4		79		5.2		1	3	5	5	9	4	1	0	3
	1200		999.1		1000.2	87.0	80.3	77.5	32.3		74		4.0		0	0	2	3	7	9	0	2	8
Faridpur	0000	46	1001.5		1003.1	78.4	77.1	76.4	31.2		93		4.3		1	2	1	10	9	2	0	0	6
	0300		1002.7	—1.6	1004.3	85.1	80.2	77.5	33.0	+1.7	79	+2	5.3	+1.2	1	3	3	9	9	1	0	0	5
	1200		998.7		1000.3	86.8	80.8	78.3	32.2		76		3.6		1	1	2	8	9	1	0	0	9
Khulna Division																							
Barisal	0000	11	(a) 1003.2		(a) 1003.6	(a) 80.4	(a) 78.7	(a) 77.9	(a) 32.7		(a) 92		(a) 3.3		1	1	0	2	(a) 6	0	0	0	20
	0300		1003.8	—2.0	1004.2	87.3	81.4	78.5	34.0	+1.7	76	+1	4.5	0.0	1	0	0	9	10	0	0	0	11
	1200		1000.8		1001.2	87.1	81.1	78.1	33.5		76		3.2		0	0	1	10	9	0	1	0	10
Khulna	0000	16	(a) 1002.8		(a) 1003.4	(a) 80.1	(a) 79.3	(a) 79.1	(a) 33.7		(a) 7		(a) 2.9		0	0	0	0	(a) 3	1	0	0	26
	0300		(a) 1004.3	—0.9	(a) 1004.8	(a) 86.4	(a) 82.7	() 81.3	(a) 36.4	+4.5	(a) 85	+10	(a) 3.9	—1.2	0	0	0	4	(a) -	1	0	0	23
	1200		1000.2		1000.7	87.8	83.9	82.5	37.9		85		3.0		0	0	0	4	5	0	0	0	22
Satkhira	0000	16	1002.6		1003.1	79.9	78.2	77.5	32.2		92		4.6		0	1	0	1	1	1	0	1	26
	0300		1003.7	—1.1	1004.3	87.7	81.6	79.3	34.0	+1.8	77	+3	5.0	+1.0	1	0	0	0	2	6	0	1	21
	1200		999.6		1000.1	90.0	81.2	77.5	32.3		67		5.3		1	1	0	2	3	8	0	0	16
Jessore (P.T.)	0000	26	1001.5		1002.4	78.1	77.3	76.7	31.7		95		4.4		1	0	6	5	15	0	0	1	3
	0300		1003.1	—1.7	1004.0	85.7	81.0	79.2	34.0	+2.2	81	+4	4.1	—0.2	3	1	3	7	10	5	1	0	1
	1200		1000.3		1001.2	88.9	81.0	77.9	32.6		71		4.2		1	0	1	2	23	0	0	1	3
Rajshahi Division																							
Pabna	0000	48	1001.1		1002.7	77.8	76.5	75.8	30.6		93		3.6		0	4	2	11	3	1	0	1	9
	0300		1002.1		1003.7	84.4	79.5	77.4	32.2	+1.0	81	+2	3.7		0	1	1	16	3	6	0	4	0
	1200		997.8		999.4	88.6	79.9	76.0	30.9		68		4.3		0	1	0	13	1	1	1	4	10
Ishurdi	0000		x		x	77.2	75.8	75.1	29.8		94		5.2		3	3	7	8	5	0	1	0	4
	0300		x		x	84.7	79.2	76.9	31.6		78		5.1		0	2	6	6	10	4	1	2	0
	1200		x		x	87.9	78.3	73.5	28.7		67		4.5		1	3	6	10	6	2	1	2	0
Sirajganj	0000	51	1001.2		1003.0	77.6	76.3	75.8	30.4		94		4.5		0	1	1	3	5	0	0	0	21
	0300		1002.6		1004.4	83.7	79.1	77.1	31.9		81		4.5		1	1	0	1	13	1	0	1	13
	1200		998.1		999.8	87.3	81.0	78.5	33.3		75		3.2		2	0	0	0	12	0	0	0	17
Rajshahi (R)	0000																						
	0300																						
	1200																						
Bogra (P.B.O.)	0000	65	1000.6		1002.8	77.4	76.3	75.8	30.5		95		5.5		0	6	8	3	2	1	0	0	11
	0300		1002.2	—1.5	1004.4	83.6	79.0	77.2	31.8	+3.0	82	+5	5.0	+0.7	0	3	11	11	3	1	0	0	2
	1200		997.6		999.8	87.5	81.3	78.8	33.7		77		3.8		1	2	12	8	1	0	1	0	6
Dinajpur	0000	123	998.4		1002.7	77.3	74.4	72.9	27.6		87		3.1		0	2	6	0	0	0	0	0	23
	0300		999.8	—1.8	1003.9	85.8	76.8	72.6	27.4	—0.2	67	—10	2.9	—1.5	0	0	5	0	0	0	0	0	26
	1200		994.9		999.0	90.0	78.6	72.7	28.2		59		2.0		0	0	4	0	0	0	0	0	27
Rangpur	0000	113	1000.1		1004.0	75.2	73.7	72.9	27.7		93		4.9		4	9	13	3	1	0	1	0	0
	0300		1001.2		1005.1	81.0	76.6	74.7	29.3		82		3.9		1	11	12	6	0	0	1	0	0
	1200		996.3		1000.1	86.4	79.6	76.5	31.4		74		2.7		4	8	6	7	0	1	3	0	2

(a) Observation for 30 days. (R) Register not received. (x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
KASHMIR																							
Jammu (x)	0300	1201																					
	1200																						
LAHORE																							
Lahore (P.B.O.)	0000	702	977.7		1001.8	75.7	65.8	59.0	17.2		57		2.2		1	2	1	2	0	1	2	2	20
	0300		979.2	+0.4	1002.9	86.0	69.1	58.2	16.5	+1.0	40	+4	1.4	—0.1	2	4	0	4	2	0	0	3	16
	1200		976.1		999.2	99.2	71.2	51.9	13.4		21		1.5		1	4	0	1	1	1	6	4	13
Lahore (Cantt.)	0000	709	977.0		1001.2	77.2	66.8	60.0	17.8		55		2.2		2	2	2	1	0	1	.	8	14
	0300		978.6	—	1002.6	85.8	70.3	60.9	18.3		43	—	1.5	—	4	6	3	6	1	1	0	4	6
	1200		975.5		998.7	99.3	73.0	56.3	15.9		25		1.8		1	3	0	3	0	5	3	15	1
Sialkot	0000	830	(b) 972.7		(b) 1000.8	(c) 78.0	(b) 65.0	(b) 55.3	15.2		46		(b) 0.5		0	2	0	0	0	0	0	1	28
	0300		(a) 974.4	—0.3	(a) 1002.4	85.3	68.4	57.0	16.1	+0.8	38	0	1.0	—0.2	0	5	0	4	0	1	0	1	20
	1200		971.4		998.6	98.7	74.1	58.8	17.6		28		1.5		0	2	0	1	0	3	0	14	(c) 8
RAWALPINDI																							
Jhelum	0000	765	975.1		1001.5	72.9	64.7	59.0	17.2		62		2.1		2	4	1	0	0	0	0	4	20
	0300		976.9	—	1002.8	83.1	68.6	59.3	17.3	—	45	—	2.1	—	0	7	0	2	0	1	1	7	13
	1200		973.4		998.6	98.0	72.5	56.4	15.7		25		2.3		1	1	0	3	5	6	2	2	11
Chaklala	0000	1667	946.6		1003.4	77.7	60.7	53.5	14.1		55		2.7		6	5	2	2	0	0	0	6	10
	0300		947.7	—	1003.3	82.0	64.8	53.2	14.0	—	38	—	1.9	—	1	8	5	3	0	0	2	0	12
	1200		945.4		999.5	95.0	66.6	46.3	10.7		19		2.8		2	4	1	2	1	1	14	5	1
Rawalpindi	0000	1675	946.2		1003.2	71.3	62.0	55.7	15.2		58		2.5		6	1	4	0	1	0	1	1	17
	0300		947.2	—0.3	1002.9	83.0	65.8	54.8	14.7	+0.5	38	+5	1.8	+0.1	4	8	6	2	4	1	1	0	5
	1200		944.8		999.1	21.9	68.4	51.2	12.9		23		2.8		1	2	3	2	3	3	9	6	2
Campbellpur	0300	1175	963.8	—	1003.5	81.9	(e) 66.3	(e) 56.3	15.0	—	41	—	0.5	—	1	1	2	3	0	1	0	1	22
	1200		961.1		999.2	99.2	(f) 70.9	(f) 52.6	13.0		20		0.8		1	4	3	2	2	7	2	1	9
SARGODHA																							
Khushab	0000	616	(b) 980.3		(a) 1001.4	77.0	66.2	58.8	17.1		54		0.5		1	1	11	1	3	0	0	0	14
	0300		981.7	—0.5	1002.6	86.1	69.1	58.3	16.5	+1.8	39	+5	0.9	—0.4	0	1	11	1	1	0	0	2	15
	1200		(a) 978.9		(a) 999.2	100.4	(a) 72.5	(a) 54.4	14.6		21		1.1		5	0	7	1	4	1	1	0	12
Sargodha	0000	617	980.4		1001.6	74.4	64.9	58.5	16.7		57		1.6		0	5	3	3	2	0	3	3	12
	0300		981.8	—	1002.6	84.9	69.1	58.9	17.1		41		1.8	—	0	4	7	4	3	0	3	1	9
	1200		979.1		999.4	98.1	70.4	50.4	12.9		21		2.2		3	4	7	3	3	4	4	2	1
Mianwali	0000	679	977.8		1001.2	74.8	65.1	58.6	17.2		58		0.9		0	0	2	1	0	0	0	0	28
	0300		979.1	—	1002.0	85.1	69.6	60.2	18.4	—	43		0.8		0	4	1	0	1	0	0	0	25
	1200		976.1		998.5	98.8	73.7	58.8	17.0		27		1.4		0	3	0	4	0	1	0	2	21
Lyallpur	0000	605	980.6		1001.4	76.8	*	*	—		—		1.4		1	5	1	0	0	0	1	2	21
	0300		981.3	—0.8	1001.9	82.7	*	*	—	—	—		1.3	—0.6	3	6	3	0	0	2	5	4	8
	1200		979.0		999.0	98.6	*	*	—		—		1.5		4	2	2	2	0	1	5	4	11
MULTAN																							
Montgomery	0000	558	982.0		1001.1	77.9	66.1	58.1	16.6		51		1.4		0	3	1	2	1	2	1	1	20
	0300		*	—	*	84.6	69.1	58.9	17.3	—3.8	43	—7	1.1	+0.2	0	3	1	3	0	10	1	0	13
	1200		980.2		998.4	101.1	73.1	54.9	15.1		22		1.5		2	2	0	4	0	5	2	0	16
Multan (P.B.O.)	0000	404	986.9		1000.8	80.1	66.6	57.0	16.2		46		1.8		1	0	0	4	7	2	0	1	16
	0300		988.3		1002.1	86.3	69.4	58.3	16.9		39		.8		4	1	1	2	5	7	0	2	9
	1200		985.1		998.2	103.0	71.1	47.3	11.5		16		1.8		3	2	0	4	5	10	0	1	6

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Multan (Surface)	0300	413	987.9	—0.6	1001.9	86.0	(j) 70.6	(j) 60.8	18.6	—1.5	43	—4	2.4	+1.6	3	0	2	0	5	1	4	1	15
	1200		984.5		998.1	102.1	(i) 72.7	(i) 52.0	14.1		19		2.3		4	0	2	0	5	0	4	0	16
Leiah	0000	487	*		*	*	*	*	—		—		2.0		2	0	4	8	4	6	1	1	5
	0300		*	—	*	91.8	*	*	—	—	—	—	1.2	—	7	0	2	2	3	0	2	4	11
	1200		*		*	101.1	72.3	51.7	14.1		20		3.2		2	0	2	7	4	6	4	0	6
BAHAWALPUR																							
Khanpur (P.B.O.)	0000	290	990.7		1000.8	79.2	66.6	58.0	16.7		49		1.0		1	7	1	1	2	7	1	0	11
	0300		992.2	—	1002.1	85.6	70.5	60.3	18.7	—	45	—	1.2	—	1	6	3	1	1	14	2	0	3
	1200		988.4		997.9	105.1	71.5	46.4	11.2		15		1.3		2	3	2	1	2	7	8	2	4
Bahawalpur	0300	384	988.6	—0.5	1001.6	86.8	72.0	63.5	20.1	—0.4	46	0	1.3	+0.2	1	5	0	10	4	2	0	0	9
	1200		986.0		998.6	103.1	*	*	—		—		0.6		0	2	0	0	1	3	1	1	23
Fort Abbas	0000	475	985.7		1001.9	79.2	66.4	57.9	16.4		47		0.0		2	1	5	2	4	1	4	0	12
	0300		987.5	—	1003.5	89.5	(a) 70.3	(a) 57.7	16.6	—	36	—	0.1	...	0	1	5	3	5	5	6	1	5
	1200		983.9		999.4	104.0	73.1	52.6	13.7		18		0.2		6	5	1	1	5	3	6	1	3
PESHAWAR																							
Chakdara	0000	2197	928.4		1002.6	69.1	*	*	—		—		0.6		25	0	3	0	2	0	0	0	1
	0300		929.0	—	1002.4	76.2	*	*	—	—	—		0.8	—	12	0	3	0	2	0	2	0	12
	1200		926.1		997.1	91.0	*	*	—		—		0.7		6	0	6	0	9	0	3	0	7
Peshawar	0000	1177	962.3		1002.6	72.1	61.9	53.8	14.4		53		1.6		0	1	1	5	8	1	0	2	13
	0300		963.9	—0.8	1003.4	83.3	67.4	56.4	15.7	+1.6	40	+4	1.5	—1.0	6	2	0	3	3	0	0	1	16
	1200		960.8		999.3	95.2	70.1	52.6	13.8		24		3.6		3	13	1	6	1	6	0	0	1
Risalpur	0000	1047	966.3		1002.0	70.9	63.8	59.1	17.0		67		2.0		3	1	2	1	0	1	5	3	15
	0300		967.9	...	1002.9	82.2	67.4	57.2	16.2	—	42	—	1.7	—	1	3	5	1	0	3	7	1	10
	1200		964.5		998.6	97.5	70.3	50.6	13.0		21		3.2		1	2	3	1	0	2	8	6	8
Haripur	0300	1757	944.4	...	1003.0	80.5	69.0	63.1	19.5	—	55	—	1.3	—	0	4	0	7	0	20	0	0	0
	1200		943.3		1000.5	93.4	71.3	57.8	17.3		32		1.9		0	4	1	10	0	14	0	2	0
Kohat	0000	1683	946.5		1003.1	76.5	62.8	53.0	14.0		45		1.3		2	0	0	0	0	1	0	26	2
	0300		947.4	...	1003.5	82.3	66.0	55.7	15.2	—	40	—	1.1	—	3	0	0	1	0	0	2	19	6
	1200		945.2		1000.0	93.4	69.3	54.3	14.7		27		3.2		3	3	3	4	1	1	5	3	8
D. I. KHAN																							
Bannu	0000	1263	958.8		1001.7	75.3	*	*	—		—		0.6		0	2	0	0	0	0	2	11	16
	0300		960.1	—	1002.5	84.1	*	*	—		—	—	0.8	—0.2	5	1	1	2	1	0	4	7	10
	1200		957.1		998.3	96.5	*	*	—		—		2.8		1	5	4	10	3	1	1	3	3
D. I. Khan	0000	570	981.7		1001.2	77.6	*	*	—		—		0.9		1	1	0	0	0	0	0	0	29
	0300		(a) 983.1	—0.5	1002.3	87.0	*	*	—	—	—	—	1.2	+0.2	0	3	0	0	0	0	0	0	28
	1200		979.9		998.6	101.9	*	*	—		—		1.1		0	1	0	0	1	1	0	1	27

(*) Data rejected. (a) Mean for 30 days. (i) Mean for 22 days. (j) Mean for 21 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind & Directions Number of Observation From — N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
QUETTA	GMT.	Ft.	Mb.	Mb	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Sibi	0000	441	985.3		1000.1	84.2	66.0	52.1	13.2		34		0.5		8	4	1	3	0	0	3	3	9
	0300		987.5	+0.2	1002.3	88.2	69.1	54.6	15.6	+3.0	31	+3	1.3	+0.3	4	4	1	3	2	1	2	3	11
	1200		982.9		991.0	109.9	73.3	45.4	11.5		14		1.4		3	2	4	5	4	3	10	0	0
KALAT																							
Nokkundi	0000	2229	296.1		1003.4	77.1	60.8	47.8	10.7		38		0.1		14	3	1	0	0	0	3	10	0
	0300		930.5	—	1003.7	85.2	64.2	49.0	10.3	—5.2	31	—9	0.2	—0.8	10	2	5	2	1	1	3	7	0
	1200		927.1		998.2	100.3	68.4	44.2	10.4		17		0.3		12	0	1	1	0	2	5	10	0
Turbat	0000	510	984.7		1002.1	81.9	72.8	67.3	23.5		64		0.1		0	2	0	0	3	0	10	1	15
	0300		986.6	—	1003.9	86.9	74.8	68.0	24.0	—	56		0.4	—	1	0	3	0	1	1	6	3	16
	1200		981.6		998.0	108.6	75.0	54.0	14.4		18		0.4		0	1	2	0	1	5	20	1	1
Jiwani	0000	185	996.9		1003.3	79.5	77.1	76.3	30.2		90		1.8		0	0	1	1	3	17	5	1	3
	0300		998.3	—	1004.6	84.0	77.9	75.6	30.5	—	80		2.0	—	1	0	1	2	3	15	7	1	1
	1200		999.0		1002.3	88.9	78.7	74.0	29.9		65		0.9		0	0	0	1	4	24	2	0	0
Pasni	0000	28	1002.9		1003.9	77.7	77.0	76.7	31.4		97		2.1		0	0	2	0	3	1	23	2	0
	0300		1003.6	—1.0	1004.5	79.8	78.8	78.4	33.2	+3.9	95	+14	0.3	—1.4	2	0	5	0	2	4	13	5	0
	1200		1001.6		1002.5	89.1	82.9	80.5	35.6		76		0.0		0	0	0	0	3	27	1	0	0
KARACHI FEDERAL TERRITORY																							
Ormara	0000	15	1002.1		1002.6	79.9	77.4	76.1	31.0		88		4.2		0	0	0	0	0	8	15	0	8
	0300		1003.6	—	1004.1	83.6	78.6	76.2	31.2	+0.6	79	—4	3.8	+1.8	0	0	0	0	0	5	16	2	8
	1200		1000.6		1001.1	88.4	79.0	74.6	29.6		65		2.0		0	0	0	0	0	9	21	0	1
Lasbela	0000	292	*		*	82.6	75.5	72.0	26.9		72		0.7		*	*	*	*	*	*	*	*	*
	0300		994.0	—1.0	1004.0	83.7	77.6	74.6	29.6	0.0	75	0	0.6	—0.8	*	*	*	*	*	*	*	*	*
	1200		990.1		999.3	100.7	87.3	82.1	38.1		57		0.5		*	*	*	*	*	*	*	*	*
Karachi (Manora)	0000	13	1002.5		1003.0	79.3	75.2	73.3	28.0		82		4.6		0	0	0	0	0	4	26	1	0
	0300		1003.9	—1.1	1004.4	80.5	76.3	74.3	29.1	—1.9	82	—3	4.4	+1.8	0	0	0	0	0	3	26	2	0
	1200		1001.3		1001.7	86.5	81.6	79.6	34.7		80		4.2		0	0	0	0	0	8	22	1	0
Karachi (Mauripur)	0000	52	1001.0		1002.8	80.4	78.1	77.2	31.8		90		2.7		0	0	0	0	0	10	20	1	0
	0300		1002.3	—	1004.1	82.8	78.9	77.2	32.0	—	84	—	3.7	—	0	0	0	0	0	9	21	1	0
	1200		999.9		1001.6	87.0	81.6	79.3	34.4		79		1.7		0	0	0	0	0	24	7	0	0
Karachi (City)	0300	20	1003.1	—	1003.8	83.8	79.2	77.0	32.0	—	80	—	3.2	—	0	0	0	0	0	12	17	2	0
	1200		1000.9		1001.6	86.0	81.2	79.2	34.2		81		2.8		0	0	0	0	0	17	14	0	0
Karachi (Airport)	0000	73	1000.5		1003.0	80.5	78.0	76.9	31.6		89		3.2		0	0	0	0	0	15	12	1	3
	0300		1001.9	—	1004.4	83.2	78.6	76.6	31.3	—	81		4.1	—	0	0	0	0	0	11	19	0	1
	1200		999.1		1001.6	88.3	80.2	76.7	31.5		69		1.7		0	0	0	0	1	24	6	0	0
Gadap (R)	0300																						
	1200																						
HYDERABAD																							
Mithi	0000	96	999.6		1002.9	78.9	78.5	77.9	33.2		96		0.3		0	0	0	0	0	11	0	0	20
	0300		1000.4	—	1003.8	84.8	81.3	79.5	34.9	—	84		1.6	—	0	0	0	0	1	25	1	1	3
	1200		997.0		1000.2	102.3	90.1	86.4	42.8		62		0.7		0	0	0	0	0	22	5	2	2
Nagarparkar	0000	178	995.1		1001.3	80.8	76.8	74.8	29.7		82		—		5	0	0	0	0	3	4	18	1
	0300		996.3	—	1002.6	84.8	77.8	74.3	29.4	—	73		—	—	3	0	0	0	0	14	2	10	2
	1200		993.1		999.0	103.7	83.9	75.6	30.6		42		—		1	0	0	0	3	9	10	7	1

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Umerkot	0000	55	999.7		1001.6	78.9	75.0	73.0	27.9		83		5.8		0	0	0	1	12	18	0	0	0
	0300		1001.0		1002.9	84.6	76.9	73.3	28.1		70		4.6		0	0	0	0	13	18	0	0	0
	1200		997.2		999.0	104.6	77.1	61.0	22.4		25		3.6		0	0	0	0	6	21	2	2	0
Chhor	0000	19	1001.0		1001.6	78.9	74.6	72.5	27.3		81		1.8		0	0	0	3	2	26	0	0	2
	0300		1002.		1003.2	84.0	76.7	73.4	28.1		71		2.2		0	0	0	0	2	27	1	0	1
	1200		998.5		999.1	103.1	75.6	59.9	17.7		25		1.4		1	0	0	0	1	24	4	0	1
Hyderabad	0000	98	998.0		1001.4	80.2	74.9	72.3	27.2		78		1.8		0	0	0	0	3	24	1	0	3
	0300		999.5	—1.0	1002.9	84.0	76.2	72.5	27.3	+3.8	69	+10	2.0	+1.5	0	0	0	0	4	25	1	0	1
	1200		995.8		999.5	100.9	75.4	60.0	18.4		27		1.4		1	1	0	0	2	25	1	0	1
Badin	0000	31	1000.8		1001.9	79.2	73.5	70.2	25.6		75		0.0		2	0	0	1	0	25	0	3	0
	0300		1002.1	—1.1	1003.2	81.2	75.1	72.1	27.0	—1.5	74	+4	0.9	—0.1	3	2	0	0	0	24	0	2	0
	1200		997.5		998.9	99.5	77.1	66.5	21.6		36		0.0		1	0	0	2	0	22	2	4	0
KHAIRPUR																							
Padidan	0000	153	994.5		999.8	79.5	68.2	61.2	18.4		54		0.5		0	1	1	17	3	1	2	0	6
	0300		996.4	—	1001.6	85.7	72.5	64.7	21.3	—	51	—	0.6	—	0	2	0	16	7	1	2	1	2
	1200		993.3		993.3	107.4	71.5	42.2	10.1		12		0.5		2	1	0	4	8	6	1	7	2
Nawabshah	0000	124	996.8		1001.5	79.4	69.0	66.1	19.6		66		0.7		1	0	2	1	14	2	0	0	11
	0300		998.5	—	1002.4	85.5	74.3	67.4	23.8	—	67	—	0.9	—	1	0	0	1	19	4	0	0	6
	1200		994.9		999.0	107.1	74.8	52.7	14.9		19		0.8		3	0	0	2	17	3	0	3	3
Sukkur	0300	221	993.9	—1.2	1001.5	84.1	72.9	66.3	22.6	—1.7	57	+4	1.0	+0.6	1	2	0	3	9	6	0	0	10
	1200		990.3		997.5	106.1	76.2	58.6	17.3		22		0.9		2	2	0	3	3	6	4	0	11
Kashmore	0000	225	991.0		1000.0	79.2	65.4	54.7	15.2		45		0.0		*	*	*	*	*	*	*	*	*
	0300		(b) 993.0	—	(b) 1001.6	(b) 85.6	(b) 70.4	(b) 60.6	18.5	—	45		(b) 0.0	—	*	*	*	*	*	*	*	*	*
	1200		988.9		997.3	104.8	75.6	59.1	17.0		23		0.0		*	*	*	*	*	*	*	*	*
Jacobabad	0000	183	993.6		999.8	82.8	69.6	61.6	18.7		50		0.9		0	0	18	3	5	4	0	0	1
	0300		995.5	—0.8	1001.7	88.2	72.8	64.0	20.5	—3.2	45	—2	0.9	+0.4	0	4	12	10	3	0	0	1	1
	1200		991.6		997.6	108.1	76.1	55.6	16.2		19		0.8		2	3	0	14	3	4	0	5	0
JUNAGADH																							
Veraval	0000	26																					
	0300		(f) 1004.9	—	(f) 1005.9	(l) 82.1	(x)	*	(x)	—	(x)	—	(i) 0.0	—	4	0	0	0	0	2	11	3	2
	1200		1003.4		(l) 1004.4	(l) 86.0	(l) 81.5	(l) 80.3	(l) 34.7		82		(k) 0.0		0	0	0	0	(k) 1	3	15	1	0
EXTRA PAKISTAN																							
Jalalabad (x)	0000																						
	0300																						
	1200																						
ARABIA																							
Muscat	0300	20																					
	1200																						

(*) Data rejected. (x) Data not available. (k) Mean for 20 days. (l) Mean for 22 days. (i) Mean for 19 days. (b) Mean for 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	Mb.	Mb.	%	%	oktas											
HILL STATIONS																							
KASHMIR																							
Srinagar (x)	0000																						
	0300																						
	1200																						
Gulmarg (x)	0300	—																					
	1200																						
Gurez (x)	0300	—																					
	1200																						
Sonamarg (x)	0300	—																					
	1200																						
Dras (x)	0300	—																					
	1200																						
Kargil (x)	0300	—																					
	1200																						
Leh (x)	0000	—																					
	0300																						
	1200																						
Skardu (x)	0000	7250																					
	0300																						
	1200																						
Misgar	0000	10190	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0300		701.4	—	3120.2	49.9	39.0	24.0	4.8	—	39	—	2.0	—	0	1	0	0	0	0	3	0	27
	1200		694.8		3089.7	61.9	44.4	23.9	4.6		24		3.0		0	1	10	10	1	1	4	1	3
Aliabad (x)	0300	—																					
	1200																						
Gilgit (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	781.8		1457.7	56.8	47.4	37.9	7.8		50		3.3		0	8	2	2	0	1	1	14	3
	0300		782.9	−0.5	1460.7	63.9	50.8	38.4	8.0	−0.5	40	−1	2.8	+0.8	2	5	4	3	0	2	7	3	5
	1200		782.2		1448.7	68.4	54.0	42.1	9.1		38		4.2		2	6	5	5	0	2	4	6	1
PESHAWAR																							
Drosh	0000	4806	850.5		1469.5	63.9	52.3	40.0	8.8		43		1.6		0	0	1	5	0	3	0	0	22
	0300		851.5	−0.8	1479.4	69.2	56.2	44.3	10.2	−0.9	42	−15	2.3	+0.3	0	1	1	0	0	0	0	0	29
	1200		847.7		1439.6	83.0	59.6	37.5	8.0		20		4.2		0	3	0	0	2	16	4	1	5
Chorat	0000	4272	863.6		1436.6	69.1	55.6	43.1	9.7		40		1.2		5	3	1	1	0	4	1	7	9
	0300		864.8	−1.4	1449.3	71.9	58.3	47.0	11.1	+0.9	42	+1	0.9	−0.8	8	2	0	3	2	1	0	7	8
	1200		863.1		1435.6	83.5	63.8	49.7	12.3		31		2.8		6	6	0	4	4	1	0	5	5
Kakul	0000	4214	867.1		1452.0	64.8	55.5	47.5	11.4		55		3.0		12	3	2	3	2	1	0	8	0
	0300		868.0		1462.9	70.5	59.4	51.0	12.8	—	51	—	2.3	—	3	1	3	0	1	0	2	20	1
	1200		866.5		1451.0	80.7	62.2	48.1	11.6		33		3.5		3	5	4	0	0	10	5	4	9
Balakot (R)	0000	3226																					
	0300																						
	1200																						
Landikotal	0000	3503	887.3		1433.1	(j) 65.0	(j) 56.6	(j) 49.9	12.3		58		1.3		0	0	0	3	0	1	0	0	27
	0300		888.6		1453.5	(j) 77.0	(j) 61.7	(j) 50.5	12.6	—	39	—	1.1	—	0	2	0	4	0	0	0	0	25
	1200		886.2		1436.6	(j) 86.5	(j) 66.0	(j) 53.3	13.5		31		3.0		0	5	0	12	2	2	0	1	9

(R) Register not received (j) Mean for 21 days (x) Data not available

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1961

Division and Station	Hours of observation	Height of bar cistern above mean sea level	Mean Pressure: Station level reduced to standard temperature and gravity	Mean Pressure: Departure from normal	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb	Mean Temperature of the Air and Humidity: Wet bulb	Mean Temperature of the Air and Humidity: Dew point	Mean Temperature of the Air and Humidity: Vapour pressure	Mean Temperature of the Air and Humidity: Departure from normal	Mean Temperature of the Air and Humidity: Relative humidity	Mean Temperature of the Air and Humidity: Departure from normal	Total Cloud Amount: Mean amount	Total Cloud Amount: Departure from normal	Wind Directions Number of Observations From— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Parachinar	0000	5673	*		*	*	*	*	—		—		0.9		0	0	0	0	0	1	0	0	30
	0300		*	—	*	(a) 62.4	(a) 51.	(a) 45.2	10.7	+0.9	55	+9	0.7	—1.1	0	3	0	1	0	0	0	0	27
	1200		*		*	(h) 73.1	(h) 56.4	(h) 41.8	9.6		35		3.6		3	1	10	6	5	0	0	0	6
D. I. KHAN																							
Miranshah	0000	3026			*	*	*	*	—		—		0.8		0	1	0	0	0	0	0	0	30
	0300		904.3	—	1456.0	77.3	62.3	52.1	13.1	+0.2	40	0	0.1	—0.9	0	1	0	0	0	1	0	0	29
	1200		901.6		1444.6	89.8	65.4	47.5	11.5		24		2.1		0	15	0	1	1	2	0	0	12
Wana	0300	4503	*	—	*	70.1	58.5	49.5	11.1	+1.0	49	+7	0.8	—0.7	0	0	0	0	0	1	0	0	30
	1200		*		*	83.8	62.0	44.1	10.2		25		4.4		0	4	3	6	0	1	0	0	17
QUETTA																							
Fort Sandeman (P.T.)	0300	4614	856.6	+0.2	1471.5	72.3	57.5	44.0	10.2	+1.1	39	—15	0.7	—0.5	0	2	1	0	2	8	5	1	12
	1200		854.1		1448.1	87.9	59.7	29.2	6.1		15		4.7		4	3	1	2	1	8	5	6	1
,, ,, (B.P.O.)	0000	4615	855.4		1458.7	66.1	57.2	49.8	12.5		57		0.7		0	3	0	1	1	0	0	0	26
	3000		856.5	—	1470.9	74.2	60.4	49.2	12.3	—	44	—	0.9	—	1	3	1	2	1	5	5	0	13
	1200		853.3		1438.9	87.3	63.3	42.2	10.1		25		4.0		2	5	1	1	1	3	11	6	1
Hindubagh	0000	5909	816.2		1451.7	64.1	54.3	46.4	11.0		53		0.0		0	0	0	0	0	1	17	0	13
	0300		816.9	—	1456.1	68.3	56.0	47.2	10.9	—	46		0.8		0	0	0	0	1	1	14	4	11
	1200		814.9		1425.6	82.1	63.3	51.1	13.1		37		3.3		0	1	2	2	1	10	14	1	0
Loralai	0000	4699	851.2		1442.8	62.9	(j) 55.0	(j) 45.6	11.6		57		0.6		0	0	0	0	0	3	17	7	4
	0300		852.3	—	1454.7	71.2	(j) 61.4	(j) 51.7	14.6		52		1.0		2	0	0	0	0	2	12	6	9
	1200		850.0		1430.3	84.7	(j) 70.0	(j) 56.0	19.1		45		2.7		1	0	2	6	4	9	2	6	1
Harnai	0300												0.2		0	0	3	0	0	0	28	0	0
	1200												1.3		0	0	27	0	0	0	4	0	0
Quetta (Samungli)	0000	5213	837.1		1458.1	54.5	47.1	39.8	8.4		59		0.4		0	0	6	14	1	0	1	0	9
	0300		838.4		1469.4	66.5	53.6	42.5	9.4	—	43	—	1.1	—	0	0	6	6	1	1	0	1	16
	1200		836.0		1439.3	84.2	58.3	35.6	7.3		20		2.8		2	0	0	0	0	5	16	6	2
,, (P.T.)	0300	5490	829.1	—2.4	1456.8	68.7	55.7	46.6	10.5	—2.0	48	—6	0.7	—0.3	2	1	0	0	7	0	1	0	20
	1200		828.0		1438.7	81.8	65.4	54.0	15.4		44		2.6		2	0	0	0	1	3	4	5	16
,, (P.B.O.)	0000	5560	827.5		1501.1	60.3	47.9	35.1	6.9		40		0.2		0	0	0	0	0	0	0	0	31
	0300		828.2	—	1508.1	72.6	55.6	41.6	9.0	—	35	—	0.8	—	0	3	0	2	2	1	1	5	7
	1200		826.1		1476.0	83.6	58.1	35.2	7.4		21		2.5		1	0	0	0	0	4	12	6	8

(a) Mean for 30 days. (h) Mean for 21 days. (j) Mean for 21 days. (*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Chaman	0000	4311	863.0		1443.2	69.8	52.8	33.5	6.8		29		0.2		1	0	10	10	1	3	2	1	3
	0300		8613.	−2.5	1454.5	77.8	56.7	35.1	7.2	−2.3	23	−10	0.3	−0.7	0	0	4	6	4	8	1	1	7
	1200		869.7		1435.2	88.3	60.3	31.9	6.6		16		2.2		1	0	0	0	2	12	12	4	0
Nushki	0000	3416	895.0		1485.4	73.2	59.3	48.1	11.6		42		0.4		0	0	19	1	0	0	0	3	8
	0300		896.4		1505.5	81.3	65.3	53.7	14.8		42		0.5		0	3	14	2	0	2	0	3	7
	1200		893.1		1484.3	95.5	73.4	60.5	19.1		36		1.5		0	1	0	0	0	4	17	7	2
Dalbandin	0000	2785	910.7		1439.6	71.0	56.4	42.0	9.6		39		0.9		5	2	1	3	0	3	6	4	7
	0300		912.5	−0.9	1464.7	78.3	59.9	43.3	10.2	−0.2	32	0	0.9	0.0	1	8	2	1	0	10	1	2	6
	1200		908.9		1452.5	97.8	68.0	47.8	11.2		19		2.1		3	0	4	2	3	6	2	10	1
KALAT																							
Kalat	0000	6616	797.0		1474.9	53.6	47.1	40.4	8.7		59		0.8		1	0	0	4	20	1	2	3	0
	0300		797.9	−1.0	1466.6	68.3	56.5	48.4	11.4	+0.8	51	+7	0.8	0.0	3	0	2	8	15	0	0	3	0
	1200		796.2		1441.0	76.9	62.6	54.1	14.3		48		1.9		4	0	4	1	0	1	5	16	0
Panjgur	0000	3177	899.8		1454.5	70.3	58.8	49.1	12.3		50		0.6		6	14	4	1	1	3	0	2	0
	0300		900.8	−0.2	1469.3	75.5	64.3	56.7	16.0	−0.4	54	0	0.5	−0.1	7	12	1	1	1	3	0	4	2
	1200		898.4		1464.5	94.9	68.1	49.9	12.6		23		2.2		5	0	0	3	1	5	3	14	0
EXTRA PAKISTAN																							
AFGHANISTAN																							
Kabul	0300	5955	(x)	(x)		63.3	*	*					0.9	−0.9	0	5	2	13	1	2	1	7	0
	1200		(x)	(x)		72.4	*	*					1.9		0	1	0	9	1	6	2	12	0
Kandahar	0300	3462	892.2		1468.3	67.9	58.9	52.1	13.3		57		0.7		1	0	0	3	1	0	0	0	26
	1200		889.2		1452.6	85.4	65.7	52.3	13.6		32		1.2		0	0	0	0	0	4	0	2	25

(x) Data not available. (*) Data rejected.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MAY, 1961.

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
CHITTAGONG DIVISION																					
Rangamati	94.9		100	27	77.3		69	2	5.98		1.42	31	11		x		9	0	2	0	0
Cox's Bazar (P. T.)	90.1	+1.3	94	8	78.1	+2.2	74	4 Days	11.98	—0.76	3.07	23	9	—1.5	x		6	0	0	0	0
Chittagong (Patenga)	91.3		95	8,29	78.8		70	2	5.23		1.73	31	11		x		8	0	0	0	0
Chittagong (P. T.)	90.7	+1.8	95	9,28,29	78.2	+2.7	69	2	5.65	—4.77	1.51	21	10	—0.8	x		9	0	0	0	0
Maijdee Court	91.1	+2.0	98	29	77.5	—0.1	68	2,31	9.88	—1.57	2.68	31	11	+0.5	x	—	1	0	0	0	0
Comilla	92.2	+1.1	99	29	77.3	+2.4	69	2	7.10	—5.29	2.55	23	8	—3.8	x		6	0	0	0	0
Brahmanbaria	90.9	—1.1	97	29	75.1	+2.3	64	2	10.39	—1.40	3.62	31	9	—2.7	4.5		3	0	0	0	0
Sylhet (P.B.O.)	89.2		95	8	74.0		68	2	23.85		5.64	10	17		x		13	0	0	0	0
Srimangal (R)																					
DACCA DIVISION																					
Mymensingh	91.3	+2.0	97	21	75.8	+1.6	65	1	11.58	—0.88	4.13	31	9	—4.0	x		8	0	0	0	0
Jamalpur (R)																					
Narayanganj	92.4	+1.3	100	29	77.7	+1.9	69	2	18.40	+8.76	7.60	10	11	0.0	(b) 3.9	0.0	8	0	0	0	0
Dacca (Tejgaon)	91.4		95	20,21	77.6		68	2	15.54		6.23	10	10		(b) 6.5		11	0	0	0	0
Faridpur	92.4	+0.7	97	20,29	76.2	+1.3	67	2	11.27	+1.63	2.28	9	10	—1.0	7.7	+1.3	8	0	0	0	0
KHULNA DIVISION																					
Barisal	93.0	+1.3	98	29	77.9	+1.0	69	2	9.85	+1.58	2.94	31	11	+1.4	x		5	0	0	0	0
Khulna	93.5	+0.6	99	21	(a) 78.4	+1.4	(x)		11.13	+3.38	7.70	10	10	+0.3	(a) 3.1	—1.1	3	0	2	0	0
Satkhira	94.7	—0.7	100	21,26,29	78.6	+1.2	69	9	8.40	—0.47	2.75	9	6	—2.2	1.8	—1.6	4	0	0	0	0
Jessore (P.T.)	93.5	—0.4	99	21,29	77.0	+1.2	68	2,4	6.10	—2.02	2.16	9	11	+1.9	5.5	+2.4	4	0	0	0	0
RAJSHAHI DIVISION																					
Pabna	95.1	+0.3	106	20	76.3	+1.9	70	5 days	8.76	+1.43	1.74	23	14	+4.2	x	—	18	0	0	0	0
Ishurdi	95.6		109	21	75.0		66	6	6.84		0.91	22	13		x		14	0	0	0	1
Serajganj	91.7		100	20	75.4		68	1	8.10	+0.02	1.18	15	12	+1.5	3.3		5	0	0	0	0
Rajshahi (R)																					
Bogra (P.B.O.)	93.3	+0.9	106	20,21	75.8	+1.5	69	1,2,3	5.10	—	—	—	(h) 7	—2.6	2.9	+0.5	11	0	0	0	0
Dinajpur	95.3	+3.5	105	20	76.7	+2.5	69	2,4	2.63	—4.71	1.16	4	4	—4.7	x		1	0	0	0	0
Rangpur	90.4		100	20,21	73.7		67	2	10.94	+0.11	2.79	22	12	+0.5	3.3		11	0	0	0	0

(a) Observation for 30 days. (b) Observation for 29 days. (h) Observation for 23 days. (R) Register not received. (x) Data not available.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MAY, 1961.

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Visibility Code Figure 93 or less: Fog.	Visibility Code Figure 93 or less: Haze (dust).	Visibility Code Figure 93 or less: Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR																					
Jammu (x)																					
LAHORE																					
Lahore (P.B.O.)	101.8	—1.9	110	21	74.3	+2.1	68	1,16	0.80	+0.21	0.29	6	2	+0.7	2.4	+0.4	10	0	0	0	5
,, (Cantt.)	101.6	—	110	21,31	74.8	—	68	15,16	0.53	—	0.32	6	1	—	3.9	—	9	0	0	1	4
Sialkot	101.5	—0.7	109	31	75.6	+1.3	64	16	0.82	—0.17	0.75	8	1	—1.0	2.7	+0.7	1	0	0	0	1
RAWALPINDI																					
Jhelum	100.6	—	109	21	(a) 70.9	—	64	1,15,16	0.74	—	0.26	15	3	—	2.4	—	11	0	0	0	3
Chaklala	96.5	—	105	21,31	69.1	—	63	1,9,16	0.50	—	0.39	15	1	—	5.3	—	12	0	0	0	2
Rawalpindi	97.1	—0.6	106	31	70.6	+1.9	63	15	0.69	—0.56	0.60	15	1	—1.5	3.0	+0.7	8	0	0	0	1
Campbellpur	99.2	—	108	21,31	70.0	—	62	1	0.00	—	0.00	—	0	—	1.8	—	0	0	0	0	0
SARGODHA																					
Khushab	103.2	—0.5	111	20,31	74.5	—1.8	67	14	1.44	+0.68	0.85	23	2	+0.4	3.9	—0.9	0	2	0	0	2
Sargodha	101.3	—	110	31	73.1	—	68	14,16	0.46	—	0.30	14	1	—	(b) 4.5	—	10	2	0	0	5
Mianwali	102.2	—	112	31	73.3	—	66	12	0.70	—	0.50	12	2	—	x	—	0	0	0	0	0
Lyallpur	99.6	—2.8	108	31	74.9	+1.0	67	16	0.42	—0.01	0.26	12	2	+0.8	2.8	+0.4	6	0	0	0	6
MULTAN																					
Montgomery	103.3	—2.1	111	31	75.3	—1.6	68	6,16,17	0.59	+0.23	0.42	5	2	+0.9	x	—	6	0	0	0	6
Multan (P.B.O.)	105.4	—	114	31	77.8	—	66	16	0.54	—	0.18	22,24	2	—	3.8	—	7	0	0	0	6
,, (Surface)	105.3	+0.5	114	21	80.2	+2.8	73	5,16	0.55	+0.22	0.26	5	2	+1.3	x	—	9	1	0	0	5
Leiah	106.0	—	115	31	67.8	—	58	17	0.01	—	0.01	22	0	—	x	—	2	0	0	0	0
BAHAWALPUR																					
Khanpur (P.B.O.)	106.6	—	112	21,31	76.6	—	71	3	0.67	—	0.87	23	1	—	4.3	—	2	0	0	0	2
Bahawalpur	106.3	+0.1	113	31	(b) 77.5	+1.6	70	16	00.9	—0.09	0.09	21	0	—0.5	3.3	+0.2	0	0	0	0	0
Fort Abbas	108.0	—	115	20	(a) 78.2	—	70	9,16	0.00	—	0.00	—	0	—	5.0	—	0	0	0	0	0
PESHAWAR																					
Chakdara	94.8	—	104	31	65.6	—	57	8	0.33	—	0.33	8	1	—	x	—	2	0	0	0	0
Peshawar	97.7	+0.7	107	31	70.7	+0.3	63	16	00.8	—0.69	0.08	5	0	—2.0	1.7	—0.6	10	0	0	0	4
Risalpur	99.2	—	108	31	68.4	—	63	1	0.22	—	0.20	10	1	—	2.7	—	5	0	0	0	2
Haripur	96.5	—	104	21	67.6	—	62	8,9	1.36	—	0.57	8	4	—	(b) 5.0	—	3	0	0	0	0
Kohat	97.8	—	106	31	74.0	—	66	23,24	1.11	—	0.50	26	3	—	6.0	—	10	0	0	0	0
D. I. KHAN																					
Bannu	98.7	—1.1	107	31	72.9	+1.4	65	13	0.26	—0.35	0.17	12	1	—0.5	2.3	—	3	0	0	0	2
D. I. Khan	105.5	+2.0	113	30	76.1	+1.4	70	16,17	0.08	—0.31	0.08	22	0	—1.0	1.8	0.0	0	0	0	0	0

(a) Mean for 30 days. (b) Mean for 29 days. (x) Data not available.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MAY, 1961.

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
QUETTA																					
Sibi	111.2	+2.0	116	11,20,31	82.2	+0.9	75	6,15	0.01	—0.13	0.01	23	0	—0.5	3.1	—1.0	0	0	0	0	0
KALAT																					
Nokkundi	102.6	+0.2	112	30	75.2	+0.7	65	4,5	0.20	+0.18	0.20	4	1	+1.0			0	0	0	0	0
Turbat	110.8	—	118	27,28	x	—	x	—	1.42	—	1.42	5	1	—	x	—	0	0	0	0	0
Jiwani	92.2	—	100	12	78.0	—	72	3	0.00	—	0.00	—	0	—	9.1	—	0	0	0	0	0
Pasni	92.2	—2.1	102	13	x				0.00	—0.01	0.00	—	0	0.0	*	0.0	0	0	0	0	0
KARACHI FEDERAL TERRITORY																					
Ormara	93.2	+0.5	100	13	79.9	—0.6	74	5	0.00	0.00	0.00	—	0	0.0	12.5	+1.9	0	0	0	0	1
Lasbela	106.7	+0.7	114	15,22	78.0	—4.4	71	5	0.00	—0.42	0.00	—	0	—0.9	x		0	0	0	0	0
Karachi Manora	92.1	+3.5	96	22	77.9	—1.1	72	2,4	0.00	—0.06	0.00	—	0	—0.1	x		0	0	0	0	0
„ Mauripur	91.1	—	98	22	79.5	—	76	1	0.00	—	Tr	17	0	—	9.7	—	0	0	0	0	0
„ City	90.2	—	99	22	78.4	—	75	1,4,6	0.00	—	0.00	—	0	—	8.4	—	0	0	0	0	0
„ Airport	93.0	—	101	22	79.3	—	72	7	0.00	—	Tr	17	0	—	11.0	—	0	0	0	0	0
Gadap (R)																					
HYDERABAD																					
Mithi	107.2	—	114	22,24	77.7	—	70	8	0.00	—	0.00	—	0	—	4.3	—	0	0	0	0	0
Nagarparker	105.7	—	111	24	x	—	x	—	0.00	—	0.00	—	0	—	—	—	0	0	0	0	0
Umarkot	107.6	—	112	6days	78.2	—	72	1,2	0.00	—	0.00	—	0	—	7.4	—	0	0	0	0	0
Chhor	105.3	—	111	2,23	77.9	—	71	1	0.00	—	0.00	—	0	—	6.6	—	2	0	0	0	0
Hyderabad	103.3	—3.7	113	22	79.5	+1.3	75	1,4	0.00	—0.19	Tr	7,21	0	—0.4	8.3	+0.6	2	0	0	0	1
Badin	104.3	+0.4	111	23	77.4	—0.9	73	4	0.00	—0.22	0.00	—	0	—0.2	—	—	0	0	0	0	0
KHAIRPUR																					
Padidan	109.5	—	114	31	78.0	—	73	5,6	0.00	—	0.00	—	0	—	6.3	—	0	0	0	0	0
Nawabshah	109.0	—	114	26,27	77.7	—	72	14,24	0.00	—	Tr	22	0	—	5.7	—	1	0	0	0	0
Sukkur	107.4	0.0	112	26,31	80.2 (a)	+0.6	75	6	0.00	—0.14	0.00	—	0	—0.2	1.8	—1.6	0	0	0	0	0
Kashmore	107.5	—	110	6days	77.3 (b)	—	68	3,7	0.00	—	0.00	—	0	—	x	—	0	0	0	0	0
Jacobabad	109.6	—1.5	115	12	80.5	+0.7	71	5	0.00	—0.14	Tr	23,24	0	—0.4	6.3	+2.0	1	0	0	0	0
JUNAGADH																					
Veraval	x	—	x	—	x	—	x	—	0.00	—	0.00	—	0	x	—						
EXTRA PAKISTAN																					
Jalalabad (x)																					
ARABIA																					
Muscat (x)																					

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MAY, 1961.

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 9 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
HILL STATIONS																					
KASHMIR																					
Srinagar (x)																					
Gulmarg (x)																					
Gurez (x)																					
Sonamarg																					
Dras (x)																					
Kargil (x)																					
Leh (x)																					
Skardu (x)																					
Miagar	65.9	—	79	2131	41.0	—	32	16	1.77	—	1.10	27	2	—	17	—	0	0	0	0	0
Aliabad (x)																					
Gilgit (Surface) (x)																					
RAWALPINDI																					
Murree	73.3	—1.8	82	31	54.0	—1.6	43	14,15	3.10	+0.48	1.57	14	7	+2.2	6.2	+1.7	14	2	0	0	0
PESHAWAR																					
Drosh	88.0	+6.5	99	31	62.3	+3.3	56	12	0.57	—1.34	0.20	4	2	—2.5	3.6	+0.5	10	0	0	0	0
Cherat	87.8	+2.5	96	31	65.2	—1.2	56	15	0.13	—1.52	0.05	49	0	—2.7	•	—	2	0	0	0	0
Kakul	8.44	—	94	21	63.1	—	54	15,24	4.31	—	1.80	23	7	—	(x)	—	15	0	0	0	0
Balakot (R																					
Landikotal	89.7	—	99	31	62.9	—	56	13	0.00	—	0.00	—	0	—	(x)	—	0	0	0	0	1
Parachinar	80.5	+1.0	89	31	57.3	+1.7	50	13	3.69	+1.38	1.38	3	4	—2.7	2.7	+0.1	0	0	0	0	0
D. I. KHAN																					
Miranshah	93.2	+0.3	101	31	69.3	—0.1	63	14	0.00	—1.14	0.00	—	0	—2.4	•	—	0	0	0	0	0
Wana	88.3	—0.6	97	31	59.2	—0.8	53	1.16	1.62	+0.80	1.00	12	4	+1.7	1.5	—	0	0	0	0	0
QUETTA																					
Fort Sandeman	91.5	+1.0	101	31	66.1	+2.2	56	5	0.72	—0.19	0.44	4	2	—0.1	(x)		8	0	0	0	0
,, ,, P.B.O	90.9	—	100	31	6.45	—	56	5	0.57	—	0.35	4	2	—	3.4	—	8	0	0	0	0
Hindubagh	85.6	—	94	81	55.2	—	47	28	0.75	—	0.75	8	1	—	5.3	—	0	0	0	0	0
Loralai	89.4	—	98	31	54.8	—	48	16	0.29	—0.31	0.24	5	1	—0.3	3.1	—	0	0	0	0	0
Harnai									0.28	—0.22	0.28	5	1	+0.1			0	0	0	0	0
Quetta Samangli	86.6	—	95	31	51.6	—	43	14,15	0.09	—	0.09	5	0	—	x	—	2	0	0	0	0
,, P.T.	84.1	—	94	31	54.3	—	47	14,15	0.43	—	0.23	5	2	—	2.7	+0.3	2	0	0	0	0
,, P.B.	86.8	—	95	81	58.4	—	49	5	0.14	—	0.10	4	1	—	3.0	—	2	0	0	0	0
Chaman	90.5	+0.1	100	31	66.9	+1.8	55	5	0.65	+0.52	0.45	4	2	+1.6			0	0	0	0	1
Nushki	98.2	—	104	113031	72.0	—	63	5,6	0.00	—	—	4,5	0	—	x	—	0	0	0	0	0
Dalbandin	100.8	0.0	109	11	68.3	+2.3	61	5,6	0.57	+0.50	0.50	5	1	+0.8	4.9	+0.5	4	0	0	0	1
KALAT																					
Kalat	81.4	—1.6	93	31	52.1	+0.1	47	6	—0.49	+0.29	0.42	5	1	+0.3	(x)	—	0	0	0	0	0
Panjgur	96.1	—1.8	104	11	64.3	—3.9	59	5	—0.29	+0.18	0.27	5	1	+0.7	(x)	—	1	0	0	0	1
EXTRA PAKISTAN																					
Afghanistan																					
Kabul	77.8	—0.4	84	19,20	50.0	—0.3	44	13,15,17	0.25	—0.60	0.15	23	1	—1.5	(x)	—	1	0	0	0	2
Kandahar	90.9	—	98	31	61.0	—	54	16	0.99	—	0.99	5	1	—	0.3	—	1	0	0	0	0

(R) Register not received.

REGD. No. S. - 1452

PAKISTAN WEATHER REVIEW, 1961

MONTHLY WEATHER REPORT

June

(PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN)

Chief Features:

1. The formation of two depressions in the North Bay of Bengal and their movement northwestwards.

2. The formation of a cyclonic storm in the eastern sector of the North Arabian Sea on the 23rd.

East Pakistan

The three westerly low pressure waves that moved across the region during the first week caused generally local or fairly widespread rain or thundershowers with a few moderate to heavy falls in the region during the period except for Khulna division where only scattered or local rain fell between 4th and 7th. A depression formed in the North Bay of Bengal with its centre at 0300 hours GMT on the 8th within a degree of Latitude 20-1/2°N and Longitude 89°E. It moved northwestwards and crossed coast by the next morning with its centre about 50 miles southsouthwest of Calcutta. It continued to move in the same direction and ultimately weakened into a low over East Uttar Pradesh and adjoining areas by the 11th morning. The monsoon remained active in the region upto the 16th when nearly widespread rain or thundershowers with locally heavy falls were recorded except for Khulna division where the weather remained dry on the 16th and Rajshahi division between the 8th and the 11th when they were local.

Thereafter the appearance and persistence of a trough of low in the northeast and adjoining east central Bay of Bengal resulted in gradual weaking of the monsoon. The condition continued to prevail as such till the 25th. Rain or thundershowers were fairly widespread in Chittagong division on the 17th and again on the 19th and the 20th; in Dacca division on the 18th and in Khulna division on the 24th. Scattered or local rain of thundershowers otherwise occurred in the region upto the 24th except or light rain that fell in most of the region on the 20th and the 21st outside Chittagong division.

A low pressure wave started entering east central and adjoining northeast Bay of Bengal on the 25th where conditions became markedly unsettled by the next morning. A depression formed on the morning of the 27th with its centre within a degree of Latitude 17-1/2°N and Longitude 90°E. It then moved northwestwards, crossed coast weakened and lay as a low over West Bengal and adjoining areas on the morning of the 29th and ultimately became insignificant. Under its influence generally fairly widespread rain or thundershowers occurred in the region on the 28th, in Dacca and Chittagong divisions on the last two days of the month and in Khulna division only on the 29th. Scattered or local rain or thundershowers also occurred in Chittagong division on three days starting from the 25th; in Rajshahi and Dacca divisions respectively on the 26th and 27th and elsewhere in the region during the last two days of the month.

Chief amounts of rainfall recorded during the month were:— Sylhet 5" and Rangamati 4" on the 1st; Rangpur 4" on the 2nd; Sylhet 5" on the 3rd; Rangamati 5" and Dacca 4" on the 4th; Cox's Bazar 4" on the 7th; Cox's Bazar 5" on the 8th; Maijdee Court 5" on the 9th; Barisal 6" on the 10th; Sylhet 4" on the 12th; Chittagong 5" on the 13th; Rangamati 7" and Chittagong 5" on the 14th; Maijdee Court 5" and Chittagong, Comilla, Narayanganj and Dacca 4" each on the 15th and Brahmanbaria 10" and Rangamati and Chittagong 6" each on the 16th.

The total rainfall during the month was in moderate excess throughout the region outside Dacca and Rajshahi divisions where it was in slight excess. Averaged over the region as a whole it was in moderate excess.

The mean maximum and the minimum temperatures, the mean relative humidity and the mean cloud amount were normal over the whole region.

West Pakistan

A feeble western disturbance that moved across the north of the region caused scattered rain in Rawalpindi division on the 7th. The weather otherwise remained dry in the region during this week. A secondary western disturbance then moved across the northern parts of the region and caused fairly widespread rain or thundershowers in Rawalpindi division and scattered dust or thunderstorms in Kalat and D. I. Khan divisions on the 8th and local falls in Peshawar division on the 8th and the 9th. Thereafter under the influence of 4 feeble disturbances there were scattered thunderstorms or showers in Peshawar division on the 10th and in Rawalpindi and Peshawar divisions on the 11th and fairly widespread rain or thundershowers in Rawalpindi division and scattered or local in Peshawar division on the 13th and 14th. Fairly widespread or local thunderstorms again occurred in these divisions on the 15th and scattered or local rain or thundershowers on the next day due to the passage of another secondary western disturbance. A trough of low moving from the west, thereafter, initiated isolated thunderstorms in Lahore, Rawalpindi, Sagodha, D.I. Khan and Quetta divisions on the 17th. The passage of two feeble secondary western disturbances across the northern parts of the region then resulted in the occurrence of local or fairly widespread rain or thundershowers in Lahore, Rawalpindi, Sargodha and Multan divisions and scattered in Quetta and Peshawar divisions on the 21st. A few thunderstorms also developed in Quetta and Peshawar divisions on the 20th.

A low appeared off Konkan Kathiawar coast towards the end of the 3rd week and developed into a shallow depression with—its centres at 0300 hours GMT on the 22nd within one degree of Latitude 21°N and Longitude 68°E. It concentrated into a depression by the next morning when it was centred near Latitude 21-1/2°N and Longitude 68°E. By evening it had become deep and lay with its centre within a degree of Latitude 22-1/2°N and Longitude 68°E at 1200 hours GMT of the 23rd. Moving northeastwards and intensifying it lay as a cyclonic storm at 1800 hours GMT on the 23rd centre within half a degree of Latitude 23°N and Longitude 68-1/2°E. It crossed coast during the next few hours, weakened and was centred as a deep depression at 0300 hours GMT on the 24th about 40 miles southsoutheast of Badin. Moving in the same direction and weakening it lay as a depression on the next morning with its centre about 20 miles northeast of Barmer and finally as a low over southwest Rajasthan and adjoining Hyderabad and Khairpur divisions on the evening of the 25th where it remained practically stationary and gradually became unimportant by the 28th. Under its influence and also due to the

passage of four secondary western disturbances across the northern parts of the region rain or thundershowers were fairly widespread in Rawalpindi division on the 22nd; in Lahore, Khairpur and Hyderabad divisions on the 24th and in Bahawalpur division on he next three days. These were scattered or local elsewhere in the region between the 22nd and the 24th; in Hyderabad and Khairpur divisions on four days commencing from the 25th; in Multan and Lahore divisions on the 26th; in Karachi Federal Territory on the 28th and in Rawalpindi division on the last of the month. A few moderate to heavy falls were also recorded in Hyderabad and Khairpur divisions between the 22nd and the 27th.

Chief amounts of rainfall that came on record during the month were:—Murree 1" on the 7th; Parachinar 1" on the 16th; Cambellpur 1-1/2" on the 21st; Jacobabad 2" and Murree, Khushab, Parachinar, Nagarparkar and Harnai 1" each on the 22nd; Umerkot, Khanpur, Kashmore, and Nagarparkar 1" each on the 24th. Nagarparkar 2" and Umarkot 1-1/2" on the 25th and Nagarparkar 3" on the 27th.

The total rainfall during the month was in large defect in D. I. Khan and Kalat divisions and in the Karachi Federal Territory, in moderate defect in Lahore and Multan divisions and in slight defect in Rawalpindi division. It was normal in Sargodha division, in slight excess in Peshawar divisions, and in large excess elsewhere. Averaged over the region as a whole, it was in moderate excess.

The mean maximum temperature was below normal in Khairpur division above normal in the Karachi Federal Territory and normal elsewhere.

The mean minimum temperature was above normal in Lahore Division, below normal in Khairpur division and normal over rest of the region.

The mean relative humidity was in excess in Hyderabad division in defect in the Karachi Federal Territory and Kalat division and normal elsewhere.

The mean cloud amount was in defect in Sargodha division, normal in Lahore, Peshawar, Kalat, Karachi Federal Territory and Hyderabad division and in excess elsewhere.

Table I contains the divisional means of rainfall, temperature, relative humidity and the cloud amount for the 16 divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

TABLE I.—DIVISIONAL MEANS FOR JUNE, 1961.

Division	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	Mb.	%	
EAST PAKISTAN									
Chittagong	28.66	21.10	+7.56	+36	0.0	+0.7	+0.5	+2	+0.5
Dacca	16.68	14.26	+2.42	+17	—0.8	+0.2	+0.2	+2	+0.3
Khulna	18.34	13.23	+5.11	+39	—0.7	+0.5	+0.5	+4	+0.5
Rajshahi	14.20	13.61	+1.59	+12	—1.6	+1.2	+0.6	+1	—0.2
Mean	20.14	15.96	+4.18	+26	—0.7	+0.7	+0.6	+2	+0.3
WEST PAKISTAN									
Kashmir (x)									
Lahore	1.01	2.01	—1.00	—50	—0.4	+3.0	+3.0	+4	—0.1
Rawalpindi	2.47	3.15	—0.68	—22	—1.1	+1.1	+0.3	—1	+0.7
Sargodha	1.30	1.31	—0.01	0	+0.4	—0.3	+2.1	+5	—0.7
Multan	0.47	0.77	—0.30	—39	—1.5	—0.5	—1.9	—3	—0.2
Bahawalpur	1.30	0.28	+1.02	+364	—1.4	—0.1	—0.9	+1	+0.2
Peshawar	1.17	1.03	+0.14	+14	+1.5	+1.0	+0.2	—4	—0.1
D. I. Khan	0.31	0.71	—0.40	—56	+0.1	0.0	+1.7	+1	+0.4
Quetta	1.07	0.38	+0.72	+206	—0.6	+0.1	—0.7	—5	+0.8
Kalat	0.00	0.14	—0.14	—100	—1.9	—0.8	—5.5	—12	—0.2
Karachi Federal Territory	0.13	0.39	—0.26	—67	+3.3	+0.2	—1.5	—7	+1.0
Hyderabad	1.29	0.52	+0.77	+148	—1.9	—1.3	+2.1	+8	+0.3
Khairpur	1.69	0.20	+1.49	+745	—4.1	—2.1	—1.1	+1	+1.1
Mean	0.86	0.62	+0.24	+39	—0.9	—0.3	—1.2	—3	+0.2
Junagadh (x)									

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Direction Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
EAST PAKISTAN																							
Chittagong Division																							
Rangamati	0000	208	996.6		1003.8	77.4	76.1	75.6	30.2		94		6.4		3	0	0	2	16	1	1	1	6
	0300		997.7		1004.9	81.5	77.8	76.3	30.8		85		5.5		3	0	0	1	23	0	1	1	1
	1200		994.6		1001.7	82.0	78.2	76.6	31.3		85		6.1		3	0	0	0	21	1	1	1	3
Cox's Bazar (P.T.)	0300	38	1002.2	+0.3	1003.5	83.3	80.1	78.7	33.7	+1.6	87	+2	5.3	—0.8	2	1	5	7	8	3	2	2	0
	1200		999.6		1000.9	82.8	79.9	78.7	33.6		88		6.1		1	1	1	3	12	7	3	2	0
Chittagong (Patenga)	0000	20	1001.5		1002.2	78.5	77.6	77.1	31.9		96		7.1		0	2	6	14	2	1	0	2	3
	0300		1003.0		1003.7	82.3	79.4	78.2	33.0		88		6.9		1	3	4	11	7	0	0	2	2
	1200		1000.0		1000.7	82.7	79.8	78.6	33.5		88		7.0		0	2	1	10	8	2	5	1	1
Chittagong (P.T.)	0300	46	1002.1	+0.5	1003.7	82.4	78.3	76.5	31.2	—0.3	84	+1	6.2	+0.2	1	2	2	11	8	(b) 2	1	2	0
	1200		999.0		1000.6	81.8	78.3	76.8	31.5		86		6.7		0	1	0	9	9	5	3	2	1
Maijdee Court	0000	25	1001.1		1001.9	79.7	78.1	77.2	31.7		93		6.6		0	1	0	8	7	0	1	0	13
	0300		1002.4	+0.8	1003.2	82.1	79.0	77.9	32.0	—1.1	87	+2	6.7	+1.5	1	1	1	11	5	0	0	0	11
	1200		999.2		1000.0	83.3	79.5	77.6	32.9		83		6.1		1	1	2	4	14	0	1	3	4
Comilla (R)	0000	29	1000.1		001.1	78.9	77.7	77.0	31.9		94		6.1		1	2	2	11	11	0	0	0	3
	0300		1001.0	—0.6	1002.0	83.4	79.4	77.7	32.5	+0.1	84	+2	6.5	+1.1	0	2	1	9	9	0	0	0	9
	1200		997.9		998.9	83.2	79.1	77.3	32.1		83		5.5		0	0	2	7	10	1	0	0	10
Brahmanbaria	0000	32	1000.7		1001.8	79.3	77.4	76.4	31.2		92		5.5		0	0	0	13	10	0	0	0	7
	0300		1002.1		1003.2	83.1	79.2	77.5	32.3	+1.7	84	+5	6.1		0	1	4	11	11	1	1	1	0
	1200		999.2		1000.3	83.5	78.8	76.8	31.5		81		5.5		1	0	1	10	6	3	1	0	8
Sylhet (P.B.O.)	0000	115	998.1		1002.1	77.5	76.6	76.1	30.9		96		6.9		1	2	8	5	1	0	0	1	12
	0300		999.4		1003.4	81.2	78.0	76.8	31.3		87		6.9		1	0	10	11	3	0	0	1	4
	1200		995.7		999.6	83.3	79.1	77.3	32.1		83		6.4		1	2	3	4	2	0	5	2	11
Srimangal (R)	0000	69																					
	0300																						
	1200																						
Dacca Division																							
Mymensingh	0000	62	999.6		1001.7	79.1	77.9	77.4	32.1		94		6.0		0	0	7	4	0	0	3	0	16
	0300		1001.2	+0.9	1003.3	81.3	78.8	77.8	32.5	+0.7	89	+3	6.4	—0.3	0	0	9	10	0	0	4	0	7
	1200		997.5		999.6	84.3	79.4	77.6	32.1		81		5.5		0	0	5	8	0	0	6	0	11
Jamalpur (R)	0000	63																					
	0300																						
	1200																						
Narayanganj	0000	26	1000.4		1001.3	80.4	78.9	78.5	33.0		93		7.3		0	0	8	8	5	1	0	1	7
	0300		1001.6	+0.5	1002.5	83.7	79.7	78.1	32.8	—0.3	83	—2	6.6	+0.1	1	0	5	10	4	2	1	1	6
	1200		998.4		999.2	84.6	79.6	77.7	32.3		80		6.0		0	0	2	8	10	0	0	0	10
Dacca (Tejgaon)	0000	32	999.7		1000.8	79.7	78.7	78.3	33.1		95		6.8		0	0	6	5	8	1	3	0	7
	0300		1001.1		1002.2	82.8	79.4	78.1	32.8		86		6.7		0	1	3	11	6	3	2	2	2
	1200		997.7		998.8	83.8	79.6	77.9	32.7		83		6.1		0	0	3	8	7	2	2	2	6

(R) Register not received. (b) Observation for 29 days. (f) Observation for 25 days. (h) Observation for 23 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Dacca Division—contd.																							
Faridpur	0000	46	998.9		1000.5	79.7	78.7	78.2	33.1		96		6.7		2	2	0	8	8	1	0	0	9
	0300		1000.1	+0.1	1001.7	83.4	80.4	79.2	34.1	+0.2	88	+4	6.9	+1.2	1	0	2	11	10	2	2	0	2
	1200		997.2		998.8	84.1	80.1	78.4	33.3		84		6.1		1	0	2	8	9	1	0	1	8
Khulna Division																							
Barisal	0000	11	1000.8		1001.2	80.9	79.3	78.5	33.5		93		6.0		0	0	1	3	8	0	0	0	18
	0300		1002.0	+0.7	1002.4	84.6	80.6	78.7	33.9	+0.2	84	—1	6.1	+0.1	0	0	1	5	7	0	0	0	17
	1200		998.9		999.3	84.7	80.4	78.3	33.5		83		5.6		0	0	0	6	4	0	2	0	18
Khulna	0000	16	1000.2		1000.7	81.0	80.3	80.1	35.0		97		5.1		0	0	0	1	6	1	0	0	22
	0300		1001.3	+0.7	1001.9	84.3	81.4	80.4	35.4	+1.9	88	+8	6.1	—0.5	0	1	1	1	5	1	0	0	21
	1200		998.4		999.0	84.4	81.5	80.4	35.5		88		5.9		0	0	0	3	5	0	0	0	22
Satkhira	0000	16	1000.2		1000.8	80.8	79.3	78.6	33.5		93		6.3		0	0	0	0	2	1	0	0	27
	0300		1001.1	+0.8	1001.7	85.4	81.2	79.5	34.5	—2.0	83	+1	6.4	—1.1	0	0	0	0	(b) 0	6	0	0	23
	1200		997.7		998.3	85.9	81.1	79.1	34.1		81		7.4		0	1	0	1	2	2	0	0	24
Jessore (P.T.)	0000	26	998.9		999.8	79.5	78.8	78.4	33.3		97		7.1		1	0	7	0	16	0	0	0	6
	0300		1000.3	0.0	1001.2	83.9	81.6	80.6	35.9	+2.1	90	+7	7.1	+1.3	1	1	5	5	15	1	1	1	0
	1200		998.0		998.9	85.9	82.4	81.1	36.2		86		6.6		0	0	2	0	28	0	0	0	0
Rajshahi Division																							
Pabna	0000	48	998.5		1000.1	79.5	78.5	78.1	32.9		96		5.8		0	3	2	15	1	2	0	1	6
	0300		997.7		1001.3	83.7	80.6	79.5	33.5	+0.2	88	+4	6.2	—	0	1	3	12	3	9	1	0	1
	1200		996.5		998.1	84.2	80.2	78.6	33.4		84		6.1		0	6	4	10	3	2	0	2	3
Ishurdi	0000					79.2 (f)	78.3 (f)	78.0 (f)	32.7 (f)		96 (f)		6.2 (b)		0	1	10	7	3	2	0	0	7
	0300					83.2 (h)	79.5 (h)	77.8 (h)	32.7 (h)		84 (h)		7.1 (c)		1	7	6	8	5	1	1	1	0
	1200					82.4	79.2	77.8	32.6		87		6.5		0	2	8	15	3	0	2	0	0
Sirajgonj	0000	51	999.0		1000.8	79.4	78.4	78.0	32.7		95		6.7		0	0	0	8	0	0	0	0	22
	0300		1000.4		1002.1	82.2	79.3	78.1	33.1		88		6.7		1	1	1	5	6	0	0	0	16
	1200		996.9		998.6	83.5	79.8	78.2	33.3		85		5.5		0	0	1	7	4	0	0	1	17
Rajshahi (R)	0000																						
	0300																						
	1200																						
Bogra (P.B.O.)	0000	65	998.3		1000.5	79.2	78.3	77.5	32.7		96		6.6		1	2	12	4	1	1	1	0	8
	0300		999.7	+0.4	1001.9	82.2	79.6	78.2	33.3	+1.0	88	+3	7.0	+1.1	0	4	7	8	2	5	1	0	3
	1200		996.3		998.5	84.3	80.1	78.5	33.2		83		6.6		1	1	6	11	0	3	0	0	8
Dinajpur	0000	123	996.1		1000.3	79.2	77.4	76.5	31.3		92		5.1		0	3	8	0	0	0	0	0	19
	0300		997.4	+0.3	1001.6	83.7	79.1	77.2	31.9	+0.5	82	—4	4.5	—1.5	0	1	4	0	0	0	0	0	25
	1200		993.9		998.1	85.5	79.9	77.8	32.3		78		4.6		0	0	5	1	0	0	0	0	24
Rangpur	0000	113	997.4		1001.3	78.4	77.1	76.7	31.2		94		5.8		2	3	14	3	1	0	1	0	6
	0300		998.9		1002.8	82.0	78.7	77.3	32.0		87		6.2		4	5	11	7	1	0	2	0	0
	1200		994.9		998.7	85.2	79.9	77.7	32.7		79		4.8		3	4	3	11	0	2	1	1	5

(R) Register not received. (b) Observation for 29 days. (f) Observation for 25 days. (h) Observation for 23 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in G pm	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°E	Mb.	Mb.	%	%	oktas										
KASHMIR																							
Jammu (x)	0300	1200																					
	1200																						
LAHORE																							
Lahore (P.B.O.)	0000	702	973.7		997.3	83.4	73.8	68.6	24.2		62		1.6		0	0	1	5	2	4	1	1	16
	0300		975.2	+0.7	998.7	89.5	76.4	69.9	25.1	+3.2	53	+6	1.3	−0.3	0	5	1	7	1	8	1	0	7
	1200		971.8		994.6	102.9	77.9	64.6	21.3		30		1.3		4	3	0	3	0	7	9	0	4
" (Cantt.)	0000	709	973.0		996.8	83.7	74.3	69.3	24.7		62		2.1		1	3	2	5	3	7	3	0	6
	0300		974.5	—	998.2	89.7	76.7	70.1	25.5	—	54	—	1.4	—	0	4	4	6	2	9	3	1	1
	1200		971.1		994.1	102.7	77.8	63.7	21.2		30		1.7		0	1	3	2	1	9	7	4	3
Sialkot	0000	830	(h) 968.8		(i) 997.0	(i) 85.3	(b) 73.8	(i) 66.3	23.3		56		0.9		0	3	0	1	0	0	0	0	(b) 25
	0300		970.6	+0.1	998.1	90.7	76.3	69.5	24.4	+2.8	50	+2	1.6	+0.2	0	8	0	3	0	1	0	1	17
	1200		967.0		993.9	100.3	79.3	68.7	24.6		37		1.7		0	4	0	3	0	1	0	9	(c) 9
RAWALPINDI																							
Jhelum	0000	767	970.9		996.8	82.5	73.0	67.9	23.5		62		2.3		1	2	3	3	1	4	1	3	12
	0300		972.4	—	998.0	90.2	75.3	67.5	23.2	—	47	—	2.3	—	1	5	2	6	1	3	1	4	7
	1200		968.9		993.7	102.2	78.8	66.0	23.0		33		2.2		2	4	0	4	1	15	0	1	3
Chaklala	0000	1667	942.9		998.4	79.8	67.0	59.0	17.4		50		2.1		3	6	5	1	0	0	0	2	13
	0300		944.0	—	998.7	87.9	70.6	60.5	18.5	—	42	—	2.4	—	2	6	6	8	0	0	1	1	6
	1200		941.2		994.5	100.4	72.3	55.6	15.6		24		2.3		1	2	3	7	4	2	6	2	3
Rawalpindi	0000	1675	942.0		997.9	79.6	68.4	61.9	19.1		56		2.2		5	4	6	0	1	0	0	0	14
	0300		943.3	+0.2	998.2	88.9	71.6	62.7	19.4	+1.2	42	+5	2.1	+0.2	2	6	10	1	1	1	0	0	9
	1200		940.2		993.7	100.6	73.7	59.0	17.4		26		3.0		3	1	3	4	6	1	7	2	3
Campbellpur	0000	487	959.1		998.0	89.4	(b) 75.0	(b) 67.6	23.1		49	—	1.1	—	1	1	3	8	3	4	1	1	8
	0300		956.4		994.1	105.3	77.4	61.7	19.4		25		1.5		2	2	1	7	6	2	1	3	6
Khushab	0000	616	(d) 976.6		(d) 997.3	83.2	72.3	66.1	22.1		56		0.8		2	1	10	4	1	1	1	0	10
	0300		977.5	+0.2	998.0	90.4	75.0	66.5	22.6	+1.8	46	+3	0.5	−0.8	2	0	12	4	1	1	1	0	9
	1200		974.2		994.1	104.4	76.6	60.6	18.7		25		0.7		1	0	12	5	3	0	1	0	8
Sargodha	0000	617	976.0		996.9	82.2	72.0	66.1	22.2		60		1.8		1	6	9	5	2	4	0	0	3
	0300		977.7	—	998.3	89.6	74.3	66.0	22.0	—	46	—	1.8	—	2	4	9	2	3	6	3	0	1
	1200		974.0		994.5	104.1	76.0	59.3	17.9		24		1.8		1	3	3	2	8	11	1	0	1
Mianwali	0000	679	*		*	83.7	71.1	63.4	20.3		52		1.3		0	2	0	2	1	0	0	0	25
	0300		*	—	*	92.6	73.4	61.8	19.4	—	38	—	1.0		0	4	0	3	1	3	0	1	18
	1200		*		*	105.4	77.2	61.9	19.0		25		1.3		0	0	0	6	4	8	0	2	10
Lyallpur	0000	605	976.3		996.8	84.8	72.7	66.1	22.0		54		0.5		7	2	0	1	5	2	4	3	6
	0300		978.0	−0.1	998.4	87.7	74.9	68.1	23.8	+2.4	53	+7	1.1	−0.7	1	2	1	0	0	5	11	4	6
	1200		974.7		944.3	102.6	77.0	63.0	20.1		29		1.0		2	3	2	1	1	6	10	4	1
MULTAN																							
Montgomery	0000	558	977.9		996.7	83.4	73.3	67.5	23.1		60		0.6		0	4	0	1	0	9	0	0	16
	0300		979.8	+1.0	998.4	88.9	75.2	68.1	24.7	−2.1	51	−6	1.0	0.0	0	4	0	1	0	13	0	0	12
	1200		976.1		994.3	102.8	77.1	62.8	20.1		29		1.1		1	3	1	1	0	15	2	3	4
Multan (P.B.O.)	0000	404	982.6		996.3	85.6	74.0	67.6	23.4		56		1.5		1	1	0	1	9	6	0	0	12
	0300		984.1	—	997.7	89.0	75.5	68.4	24.0	—	51	—	1.4	—	1	0	1	2	8	9	0	0	9
	1200		980.9		994.0	104.2	77.5	62.5	20.0		28		2.0		1	4	0	0	11	9	0	0	5

(x) Data not available. (d) Mean for 27 days. (b) Mean for 29 days. (i) Mean for 22 days. (c) Mean for 26 days. (*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Multan (Surface)	0300	413	983.5	+0.3	997.4	98.5	76.1	69.6	25.1	—1.8	55	—1	1.2	+0.4	4	0	0	0	8	4	3	0	11
	1200		980.6		994.1	103.9	78.8	65.8	22.2		30		1.7		3	1	0	0	11	5	1	0	9
Leiah	0000	487	*		*	*	*	*	—		—		1.3		2	3	0	0	9	12	3	1	0
	0300		*	—	*	93.2	75.3	65.7	21.8	—	41	—	1.4	—	8	1	1	3	10	4	1	0	2
	1200		*		*	101.0	78.1	65.5	22.4		33		2.7		1	3	0	0	11	6	4	2	3
BAHAWALPUR																							
Khanpur (P.B.O.)	0000	290	987.2		997.2	82.6	74.2	69.0	25.0		65		1.5		0	3	0	1	2	17	2	0	5
	0300		988.2	...	998.4	86.3	76.5	71.1	26.7	...	62	...	1.5	...	1	5	1	0	3	18	2	0	0
	1200		984.6		994.2	103.5	77.9	63.4	21.0		29		1.1		1	4	1	1	4	15	4	0	0
Bahawalpur	0300	384	985.0	+0.4	998.0	89.1	77.5	71.7	27.1	—0.9	57	+1	1.2	+0.2	1	8	1	6	2	5	0	1	6
	1200		(b) 982.3		(b) 994.9	103.8	80.0	69.5	24.1		32		1.7		0	8	0	5	0	4	1	0	12
Fort Abbas	0000	475	981.7		997.7	85.1	73.7	65.8	23.3		56		0.5		0	2	0	0	6	11	1	2	8
	0300		983.0	...	999.0	89.6	75.7	67.1	24.1	...	50	...	0.3	...	2	2	0	0	8	13	4	0	1
	1200		979.3		994.8	102.5	77.9	64.8	21.4		31		0.7		1	3	0	0	6	8	9	0	3
PESHAWAR																							
Chakdara	0000	2197	924.0		997.0	75.9	63.1	53.6	14.5		48		0.0		16	0	4	0	1	0	0	0	9
	0300		925.1	...	997.3	83.2	66.5	55.6	15.5	...	39	...	0.3	...	9	0	5	0	0	0	0	0	16
	1200		921.6		991.5	97.5	71.1	55.0	15.2		25		0.7		1	0	3	0	6	0	15	0	5
Peshawar	0000	1177	957.7		997.0	80.9	67.8	57.7	17.3		48		1.4		3	1	1	3	5	1	5	7	4
	0300		959.3	—0.1	998.1	89.1	71.7	60.3	18.6	+1.7	40	+4	1.8	—0.1	5	3	1	4	1	1	1	8	6
	1200		955.8		993.6	100.7	73.5	56.0	15.8		24		3.2		3	11	4	1	5	2	2	1	1
Risalpur	0000	1047	961.4		996.4	81.0	(h) 68.8	(h) 61.6	18.5		51		1.3		3	3	6	2	0	4	2	2	8
	0300		963.3	...	997.7	90.4	(h) 72.9	(h) 60.4	18.5	...	37	...	2.1	...	0	0	3	6	1	6	9	2	3
	1200		959.6		993.3	103.4	(g) 72.8	(g) 53.3	13.6		19		3.0		2	6	2	2	2	3	7	4	2
Haripur	0300	1757	939.7	...	997.1	88.5	72.7	64.7	21.0	...	45	...	2.5	...	0	1	0	8	0	20	0	0	1
	1200		(b) 937.7		(b) 993.7	101.8	75.0	60.5	18.5		29		2.4		0	1	0	12	0	16	0	1	0
Kohat (P.A.F.)	0000	1683	942.2		998.0	82.6	67.4	57.6	16.8		44		1.4		4	1	1	0	0	1	0	17	6
	0300		943.5	...	998.7	88.8	70.1	59.3	17.5	...	38	...	0.8	...	2	1	1	1	0	0	0	17	8
	1200		941.0		995.2	98.6	70.6	51.6	14.1		23		3.3		1	5	2	9	1	1	3	7	1
D. I. KHAN																							
Bannu	0000	1263	954.4		996.7	81.5	70.6	62.7	20.5		55		1.1		0	1	0	0	0	0	2	2	25
	0300		955.6	...	997.3	90.5	(b) 74.4	(b) 64.7	21.7	—2.6	45	+3	1.0	—0.4	1	1	3	1	1	1	1	3	18
	1200		952.4		993.1	102.1	(c) 75.5	(c) 59.9	16.7		24		2.6		0	2	6	10	7	0	2	0	3
D. I. Khan	0000	570	977.2		996.5	82.5	74.3	69.5	25.2		67		1.3		3	2	0	0	0	1	0	1	23
	0300		978.3	+0.2	997.4	90.5	78.2	71.6	27.4	+1.9	56	+3	1.3	+0.2	0	5	1	3	0	0	0	1	20
	1200		975.4		993.8	105.1	(j) 80.1	(j) 68.8	23.5		31		1.3		0	0	1	2	1	2	0	0	24

(g) Mean for 24 days. (h) Mean for 23 days. (b) Mean for 29 days. (c) Mean for 28 days. (j) Mean for 21 days. (*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
QUETTA	G.M.T	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	Oktas										
Sibi	0000	441	982.4		997.2	89.7	74.3	63.5	22.0		48		2.1		1	2	1	10	2	6	1	3	4
	0300		983.9	+1.7	998.6	91.0	76.3	67.0	24.3	+3.3	50	+10	2.1	+1.6	1	2	2	10	7	3	1	2	2
	1200		979.8		993.9	109.4	80.6	63.9	22.5		29		2.4		0	0	2	7	6	6	7	2	0
KALAT																							
Nokkundi	0000	2229	925.0		998.1	82.6	59.8	38.5	8.4		22		0.0		12	1	1	0	0	0	2	14	0
	0300		926.5	—	998.7	89.6	61.9	38.2	7.7	—11.5	17	—23	0.0	—0.6	12	0	1	2	1	1	0	13	0
	1200		923.4		992.9	106.1	67.5	36.8	7.3		10		0.0		10	2	0	0	2	1	2	13	0
Turbat	0000	510	981.0		998.4	84.0	73.0	64.6	22.7		59		0.7		1	0	0	1	1	3	3	1	20
	0300		982.3	—	999.5	89.2	74.8	63.6	22.9	—	52	—	0.8	—	0	1	2	0	1	0	1	1	24
	1200		977.8		994.2	109.3	75.7	51.3	15.1		19		0.8		4	3	0	0	2	9	11	0	1
Jiwani	0000	185	992.5		998.9	81.4	78.3	76.5	31.7		88		1.8		0	3	1	3	3	5	5	2	8
	0300		993.9	—	1000.2	84.8	79.1	76.3	31.4	—	78	—	1.8		0	2	4	2	3	6	6	2	5
	1200		991.1		997.3	91.4	79.8	73.7	29.5		60		0.7		0	0	0	0	12	15	3	0	0
Pasni	0000	28	997.8		998.8	79.6	76.3	74.5	29.5		86		0.0		2	3	1	0	3	5	4	3	9
	0300		999.1	—0.1	1000.0	84.3	78.6	75.5	30.8	—2.2	78	—5	2.4	—0.6	2	2	3	1	2	4	5	2	9
	1200		995.8		996.7	90.7	82.5	79.1	34.2		70		1.1		0	0	1	2	12	13	2	0	0
KARACHI FEDERAL TERRITORY																							
Ormara	0000	15	997.9		998.4	83.1	78.0	75.1	30.4		80		4.9		0	0	0	0	0	3	17	1	9
	0300		998.8	—	999.3	86.8	78.6	74.3	29.7	—3.4	70	—14	4.2	+0.5	0	0	0	0	0	4	17	1	8
	1200		996.0		996.5	91.7	79.9	74.4	29.7		59		2.2		1	0	0	0	3	11	15	0	0
Lasbela	0000	292	*		*	83.4	77.4	74.5	29.4		75		1.5		0	0	0	0	0	0	0	0	30
	0300		988.7	—1.8	998.5	86.0	79.2	76.3	31.0	+0.3	74	—1	1.7	—1.4	0	0	0	0	0	0	0	0	30
	1200		984.9		994.3	103.4	89.1	84.6	40.3		56		2.2		0	0	1	12	1	8	0	0	8
Karachi (Manora)	0000	13	997.6		998.0	83.5	78.4	76.2	30.9		79		5.3		1	1	0	0	0	3	20	3	2
	0300		999.1	—0.6	999.5	84.8	79.5	77.1	32.9	—1.5	78	—5	5.1	+0.6	0	1	0	0	0	3	20	4	2
	1200		996.6		997.0	90.1	83.7	81.2	36.5		76		5.1		0	0	2	0	0	4	23	1	0
Karachi (Mauripur)	0000	52	996.5		998.3	83.1	78.5	76.6	31.3		81		3.2		0	0	1	0	0	10	16	1	2
	0300		997.6	—	999.4	85.2	79.7	77.4	32.1	—	78	—	4.0	—	0	1	0	0	0	9	16	3	1
	1200		995.2		997.0	90.0	79.8	74.8	30.1		64		3.4		0	1	1	0	0	23	5	0	0
Karachi (City)	0300	20	998.2	—	998.9	86.3	79.8	76.8	31.8	—	74		4.4		0	1	1	0	0	11	14	2	1
	1200		995.9		996.6	88.9	81.4	78.3	33.2		71		4.3		0	1	1	0	0	15	13	0	0
Karachi (Airport)	0000	73	995.9		998.4	83.5	79.0	77.1	31.8		81		3.9		1	0	1	0	1	15	11	1	0
	0300		997.2	—	999.7	85.7	79.5	76.7	31.6	—	75		4.6		0	0	1	0	0	13	12	2	2
	1200		994.6		997.1	90.4	80.3	75.2	30.7		64		3.6		0	2	0	0	3	24	1	0	0
Gadap (x)	0300																						
	1200																						
HYDERABAD																							
Mithi	0000	96	995.7		999.1	81.9	81.2	80.6	36.1		97		2.4		1	0	0	0	0	10	0	0	19
	0300		996.9	—	1000.2	86.3	83.6	82.8	38.1	—	90		3.8		0	2	1	0	0	17	0	1	9
	1200		993.2		996.3	97.5	91.8	89.7	48.4		81		2.0		1	0	0	0	0	13	3	2	11
Nagarparkar	0000	178	991.5		997.7	81.8	78.1	76.3	31.2		85		2.9		0	0	0	3	4	7	9	1	6
	0300		992.5	—	998.5	84.3	79.8	77.5	32.7	—	81		3.5		1	0	1	3	4	9	6	3	3
	1200		989.3		995.0	96.8	83.5	76.9	33.1		55		2.5		0	0	0	3	3	6	6	9	3

(x) Data not available. (*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Umarkot	0000	55	996.0		997.9	82.1	77.8	76.0	30.6		85		3.7		1	0	2	0	10	14	1	0	2
	0300		997.2		999.1	85.5	79.3	75.8	31.4		74		4.7		0	0	2	2	11	13	1	1	0
	1200		993.6		995.4	98.3	80.4	72.8	27.3		47		3.9		2	1	0	1	6	15	2	1	2
Chhor	0000	19	997.6		998.3	81.0	77.3	75.6	30.3		84		3.2		0	0	0	1	1	19	0	0	9
	0300		998.8		999.4	85.4	79.0	76.1	30.9	—	74	—	4.2	—	0	0	0	2	3	22	0	0	3
	1200		995.1		995.7	97.5	80.1	72.3	27.2		48		2.6		1	2	1	1	4	18	2	0	1
Hyderabad	0000	98	994.4		997.8	82.0	77.1	75.4	29.7		80		3.6		0	0	0	0	3	18	1	0	8
	0300		995.6	+0.2	999.0	85.3	78.4	72.6	30.1	+2.1	73	+8	4.0	+2.0	0	0	0	0	4	19	1	0	6
	1200		992.3		995.6	97.8	79.7	72.7	26.4		44		1.8		1	1	0	1	4	18	0	0	5
Badin	0000	31	998.6		999.7	82.2	79.7	78.6	33.5		89		2.1		0	0	0	2	0	26	0	2	0
	0300		999.5	+0.7	1000.5	83.3	79.8	78.0	33.2	+2.2	81	+8	1.8	—1.3	0	0	0	2	0	26	0	2	0
	1200		998.2		999.3	96.0	82.1	75.5	31.1		59		1.5		0	1	0	5	2	18	0	4	0
KHAIRPUR																							
Padidan	0000	153	991.2		996.4	81.7	74.1	70.2	25.4		69		1.6		1	2	0	23	0	1	1	0	2
	0300		992.8	—	998.0	85.8	76.5	71.7	27.0	—	64	—	1.4	—	1	1	0	23	4	0	0	1	0
	1200		989.4		994.4	104.4	77.1	59.6	19.4		29		1.6		1	4	0	14	7	1	1	2	0
Nawabshah	0000	124	993.3		997.6	81.6	75.9	73.3	28.0		76		1.3		0	0	0	1	17	2	0	0	10
	0300		994.7	—	999.0	86.0	77.7	73.7	28.6	—	68	—	1.8	—	2	1	0	0	21	0	0	0	6
	1200		991.7		995.8	102.6	78.8	66.2	22.8		36		1.6		1	2	0	0	20	1	1	0	5
Sukkur	0300	221	990.7	+0.6	998.2	85.7	77.8	73.1	29.0	+0.5	68	+1	1.6	—1.1	1	2	0	3	8	11	0	1	4
	1200		986.6		993.9	104.2	81.2	70.4	25.8		36		1.4		1	2	2	4	9	9	1	0	2
Kashmore	0000	225	*		*	79.9	68.3	60.6	18.4		53		0.8		1	3	0	0	0	0	0	0	26
	0300		991.4	—	1000.0	85.4	73.9	67.6	23.4	—	53	—	0.5	—	0	3	0	0	3	0	0	0	24
	1200		987.1		995.3	111.9	83.0	69.9	25.3		28		0.7		0	6	0	0	8	0	0	0	16
Jacobabad	0000	183	990.4		996.6	84.7	76.6	72.3	27.6		69		1.1		2	0	4	12	4	3	0	4	1
	0300		992.1	+1.1	998.3	87.9	78.2	73.5	28.6	—2.7	65	—2	1.6	+1.0	3	1	3	12	6	0	1	2	2
	1200		988.1		994.0	107.3	81.6	68.5	25.3		32		1.1		1	1	3	3	15	1	2	3	1
JUNAGADH																							
Veraval	0300	26	(h) 1015.3		(h) 1016.3	(h) 78.9	(h) 60.9	44.6	10.2		30		(h) 0.0		(i) 0	(i) 1	0	1	2	2	15	1	0
	1200		1019.9		(j) 1020.9	(k) 86.1	(k) 81.0	78.9	33.9		80		(i) 0.0		(i) 0	0	0	0	3	(h) 3	14	1	1
AFGHANISTAN																							
Jalalabad (x)	0300	1950																					
	0300																						
	1200																						
ARABIA																							
Muscat (x)	0000	20																					
	1200																						
HILL STATIONS KASHMIR																							
Srinagar (x)	0000																						
	0300																						
	1200																						

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
HILL STATIONS KASHMIR																							
Gulmarg (x)	0300																						
	1200																						
Gurez (x)	0300																						
	1200																						
Sonamarg (x)	0300																						
	1200																						
Dras (x)	0300																						
	1200																						
Kargil (x)	0300																						
	1200																						
Leh (x)	0000																						
	0300																						
	1200																						
Skardu (x)	0000	7250																					
	0300																						
	1200																						
Misgar	0000	10190	—		—	—	—	—	—	—	—		—		—	—	—	—	—	—	—	—	—
	0300		700.6	—	3111.5	55.9	43.9	31.5	6.1	—	40	—	3.3	—	0	1	4	5	0	0	3	2	15
	1200		698.1		3080.2	66.9	47.6	28.1	5.2		24		3.5		0	4	2	8	0	1	5	7	3
Aliabad (x)	0300																						
	1200																						
Gilgit (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	780.5		1435.5	63.3	54.2	46.7	11.1		56		2.8		0	6	3	6	0	3	0	9	3
	0300		781.6	+0.1	1438.1	69.9	57.5	48.4	11.7	—0.5	46	—6	3.5	+1.3	0	3	4	5	0	2	5	2	9
	1200		780.4		1416.7	75.6	60.6	50.1	12.7		42		4.6		0	5	4	3	0	4	3	8	3
PESHAWAR																							
Drosh	0000	4806	847.6		1438.9	71.9	57.8	45.4	10.6		40		1.5		0	2	2	2	0	1	0	0	23
	0300		848.6	0.0	1449.7	77.1	61.7	50.0	12.6	—0.8	39	—11	1.2	+0.2	0	2	3	0	0	0	0	0	25
	1200		844.2		1402.2	89.9	63.2	41.2	9.0		19		3.9		0	3	0	1	0	20	1	1	4
Chitral	0000	4272	861.4		1416.7	76.1	61.8	50.1	13.1		42		1.4		1	1	0	2	0	6	1	3	16
	0300		862.5	—0.2	1428.4	79.0	63.5	51.6	13.7	—0.2	40	—5	1.2	—0.2	2	2	0	2	1	0	1	7	15
	1200		*		*	88.9	66.8	51.3	13.5		29		2.7		3	2	0	2	5	5	1	4	8
Kakul	0000	4214	864.2		1426.3	72.1	60.7	52.1	13.5		50		1.9		10	9	4	1	1	1	1	3	0
	0300		865.3	—	1438.3	78.7	64.4	54.7	14.8	—	44	—	2.5	—	4	4	0	2	2	1	4	11	2
	1200		863.0		1418.2	88.9	66.1	49.3	12.6		27		2.9		1	0	1	0	8	12	6	2	0
Balakot (R)	0000	3226																					
	0300																						
	1200																						
Landikotal	0000	3503	883.8		1404.5	75.3	*	*	—		—		1.1		0	0	0	5	0	0	1	2	22
	0300		885.6	—	1429.3	85.2	*	*	—	—	—	—	1.4	—	0	0	0	6	0	1	1	3	17
	1200		882.1		1399.2	93.4	*	*	—		—		3.1		0	0	0	14	0	3	0	6	7

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or Geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Parachinar	0000	5673	*		*	*	*	*	—		—		0.0		0	0	0	0	0	0	0	0	30
	0300		*	—	*	*	*	*	—	—	—	—	1.0	—0.4	0	3	0	1	1	0	0	0	25
	1200		*		*	*	*	*	—		—		2.8		0	1	14	3	2	0	2	0	8
D. I. KHAN																							
Miranshah (Surface)	0000	3026	*		*	*	*	*	—		—		0.5		0	2	0	0	0	1	0	0	27
	0300		900.1	—	1424.8	85.1	*	*	—	—	—	—	0.1	—0.9	0	2	0	0	0	1	0	1	26
	1200		897.5		1410.1	97.6	*	*	—		—		1.5		0	13	0	2	0	0	0	0	15
Wana	0300	4503	*	—	*	79.9	64.0 (d)	51.8 (d)	13.9	+0.7	39	—4	0.4	—0.6	0	0	0	0	0	0	0	0	30
	1200		*		*	89.7	66.8	49.9	13.1		27		2.7		0	9	6	3	0	2	0	1	9
QUETTA																							
Fort Sandeman (P.T)	0300	4614	853.8	+1.5	1443.1	79.6	62.9	48.8	12.8	0.0	39	—15	0.7	0.0	3	5	1	0	2	2	6	3	8
	1200		850.7		1415.2	95.1	67.0	42.8	11.2		23		3.1		5	6	6	3	2	2	2	3	1
,, (P.B.O.)	0000	4615	852.6		1430.8	73.6	62.1	52.7	14.4		52		0.9		1	2	1	3	1	2	0	0	20
	0300		853.5	—	1441.3	80.7	64.7	52.3	14.4		41		0.8		1	8	0	2	0	7	6	2	4
	1200		850.3		1407.2	93.6	67.0	45.4	11.8		24		3.1		1	7	5	3	1	3	7	2	1
Hindubagh	0000	5909	814.2		1425.5	71.1	61.8	56.3	14.7		60		0.1		0	0	0	3	0	8	12	1	6
	0300		814.5	—	1425.5	75.1	62.9	56.7	14.2		53		0.3		1	0	3	2	0	6	9	0	9
	1200		812.1		1392.6	84.1	69.3	61.3	17.8		47		2.2		1	1	2	2	0	5	15	3	1
Loralai	0000	4699	848.4		1424.5	68.5	56.5	46.2	10.8		46		1.8		0	0	0	0	0	3	11	5	11
	0300		849.5	—	1426.5	77.6	61.3	48.6	11.9		37		1.8		1	0	0	2	0	0	9	13	5
	1200		846.6		1395.2	88.6	67.8	53.2	14.8		22		3.2		0	0	2	7	7	2	4	7	1
Harnai	0300												0.9				*						
	1200												2.1				*						
Quetta (Samungli)	0000	5213	834.3		1429.0	63.5	53.4	43.9	10.0		51		1.6		0	0	5	10	2	0	0	1	4
	0300		835.4	—	1436.6	73.3	58.1	45.4	11.1	—	39	—	1.2	—	0	0	7	10	1	0	0	3	9
	1200		833.0		1405.7	90.4	59.7	30.3	6.4		15		2.8		1	0	0	4	3	1	9	11	1

(x) Data not available. (*) Data rejected. (d) Mean for 27 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Quetta (P.T.)	0300	5490	826.9	—0.9	1434.1	73.6	61.1	52.7	13.9	—1.5	49	—5	1.0	+0.5	2	2	0	3	5	14	0		16
	1200		825.8		1412.2	90.1	72.8	64.4	21.3		46		2.1		3	0	0	1	4	1	2	8	11
Quetta (P.B.O.)	0000	5560	825.1		1472.5	67.1	54.1	42.0	9.7		36		0.8		0	0	0	0	0	0	0	0	30
	0300		825.5	—	1472.3	78.3	61.0	48.5	12.1	—	37		1.0	—	5	1	1	4	2	2	0	2	13
	1200		823.4		1444.5	89.8	62.4	41.6	9.4		21		2.3		1	0	1	3	2	3	5	13	2
Chaman	0000	4311	860.3		1417.0	76.3	56.4	36.1	7.7		24		1.3		0	0	8	7	0	8	3	1	3
	0300		861.4	—0.2	1427.6	83.4	60.1	36.5	8.3	—2.5	20	—8	1.3	+0.9	0	2	4	1	2	11	4	1	5
	1200		858.2		1398.5	96.3	64.2	35.5	7.6		11		1.6		0	3	0	0	0	9	11	7	0
Nushki	0000	3416	*	—	*	80.9	59.6	41.0	8.8		25		0.9		0	0	13	1	0	0	0	5	11
	0300		892.7		1477.2	88.0	64.2	45.6	10.8	—	25		1.3	—	0	0	14	5	1	2	0	3	5
	1200		890.7		1467.8	103.8	72.0	52.0	13.8		20		0.8		0	0	0	0	1	2	18	9	0
Dalbandin	0000	2788	906.8		1410.1	76.9	56.6	35.4	7.5		24		1.3		2	3	1	4	1	3	5	1	10
	0300		908.4	0.0	1432.1	83.9	60.3	37.6	8.3	—2.6	21	—7	1.6	+1.0	0	3	1	3	1	5	4	3	10
	1200		905.2		1422.7	104.9	70.2	45.4	11.1		14		1.7		1	5	1	7	0	8	2	4	2
KALAT																							
Kalat	0000	6616	791.2		1443.7	57.5	43.0	20.9	3.0		27		1.0		0	0	1	0	19	1	4	5	0
	0300		795.5	—0.3	1434.5	72.7	56.4	40.4	8.2	—2.5	36	—4	0.5	0.0	3	1	2	1	12	1	3	7	0
	1200		793.5		1314.7	82.7	66.2	56.0	14.6		40		1.7		5	3	0	0	5	3	1	13	0
Panjgur (P.T.)	0000	3177	876.3		1427.9	76.9	61.7	48.6	12.6		39		1.1		10	4	1	0	1	8	1	3	2
	0300		897.3	+0.7	1440.2	86.4	63.1	50.2	12.8	—6.0	35	—16	1.0	+0.4	4	5	0	0	0	3	0	5	13
	1200		894.9		1433.2	99.6	63.9	28.9	5.8		9		1.2		9	0	0	0	0	7	0	14	0
AFGHANISTAN																							
Kabul	0300	5955	x		x	68.3	*	*					0.7	+0.1	2	5	3	9	0	0	3	8	0
	1200		x		x	79.5	*	*					0.8		3	3	0	3	0	0	2	19	0
Kandahar	0300	3462	889.2		1443.3	73.5	61.5	52.8	13.8		48		0.9		0	0	4	1	0	0	1	0	24
	1200		886.2		1428.1	92.3	70.3	57.6	16.3		31		1.0		0	0	0	0	0	3	2	1	24

(x) Data not available. (*) Data rejected.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JUNE, 1961.

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (Inches)						Wind Velocity (Knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
CHITTAGONG DIVISION																					
Rangamati	87.9		95	4 days	76.0		71	16,17,26	42.80		7.16	14	20		x		18	0	0	0	0
Cox's Bazar (P.T.)	87.9	+1.6	93	21,27,28	77.3	+0.9	71	17	29.46	—16.8	5.10	8	18	—1.1	x		12	0	0	0	0
Chittagong (Patenga)	87.9		94	27	77.1		72	15,17	34.35		4.49	14	21		x		13	0	0	0	0
Chittagong (P.T.)	87.1	+0.2	95	27,28	76.8	0.0	71	15	38.15	+17.16	5.40	16	23	+6.3	x		11	0	0	0	0
Maijdee Court	87.6	+0.6	94	27,28	77.4	—1.0	71	15,17	29.72	+9.16	4.95	15	18	—0.3	x	—	0	0	0	0	0
Comilla	88.8	+0.5	97	28	77.5	+0.7	72	15	24.17	+5.89	4.22	15	22	+4.9	x	—	2	0	0	0	0
Brahmanbaria	87.5	—2.7	97	27	77.5	+2.9	71	16	21.78	+7.23	9.03	16	16	0.0	4.1		8	0	0	0	0
Sylhet (P. B. O.)	86.5		96	27	76.3		72	1	36.35		5.20	3	17		x		10	0	0	0	0
Srimangal																					
DACCA DIVISION																					
Mymensingh	87.2	—0.6	99	27	76.8	—0.1	71	18	18.79	+11.9	3.25	12	18	+0.2	x		9	0	0	0	0
Jamalpur (R)																					
Narayanganj	88.8	—0.4	97	27	78.4	+0.3	72	15	17.83	+5.44	4.13	15	17	+2.5	4.1	—0.2	8	0	0	0	0
Dacca (Tejgaon)	87.9		95	26,27	78.0		72	4	20.93		4.28	4	18		7.0		12	0	0	0	0
Faridpur	87.9	—1.3	97	26	77.7	+0.3	73	15	13.41	+0.62	3.46	15	15	—0.2	4.9	—1.6	8	0	0	0	0
KHULNA DIVISION																					
Barisal	89.3	+0.5	97	27,28	78.2	—0.1	72	4,5	28.97	+12.92	6.87	10	16	—0.7	x		2	0	0	0	0
Khulna	89.3	—1.3	96	28	79.5	+0.6	73	14,18	14.72	+2.26	2.35	10	16	—1.3	3.3	—0.6	0	0	0	0	0
Satkhira	91.1	—0.7	97	26,28	79.1	+0.3	72	14	15.45	+3.25	4.70	10	13	—0.7	(c) 1.3	—1.6	0	0	0	0	0
Jessore (P.T.)	89.3	—1.4	95	26	78.9	+1.0	73	14	14.21	+1.99	2.72	10	12	—2.0	3.5	+0.5	8	0	0	0	0
RAJSHAHI DIVISION																					
Pabna	89.1	—2.5	96	27,28	78.0	+2.4	73	18	12.96	+1.69	1.96	15	13	—1.5	x		14	0	0	0	0
Ishurdi	88.8		95	2,26,27	77.3		71	7,18	12.63		3.10	24	13		x		3	0	0	0	0
Serajganj	88.2		96	27,28	76.5		72	3,4,18	13.59	+1.27	3.07	7	17	+2.7			11	0	0	0	0
Rajshahi (R)																					
Bogra (P.B.O.)	88.1	—1.7	96	26,27,28	77.5	+0.3	72	18	12.63	—0.41	2.68	6	17	+2.5	2.8	+0.7	7	0	0	0	0
Dinajpur	89.0	—0.5	99	27,28	78.2	+0.9	72	17	14.54	+0.90	3.07	3	12	—2.1	x		4	0	0	0	0
Rangpur	87.9		98	27,28	77.5		69	17	17.29	—0.49	3.55	2	14	—1.7	2.8		8	0	0	0	0

(R) Register not received. (c) Mean for 28 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JUNE, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (Inches)						Wind Velocity (Knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR																					
Jammu (x)																					
LAHORE																					
Lahore (P.B.O.)	104.9	—1.0	113	1	82.7	+3.7	73	24	0.53	—1.11	0.18	21	3	+0.2	2.8	+0.6	3	0	0	0	0
,, (Cantt.)	104.9	—	113	1	82.2	—	71	22	0.35	—	0.33	21	1	—	4.7	—	4	0	0	0	3
Sialkot	105.2	+0.2	113	1,2,3	82.6	+2.3	70	23,24,25	1.48	—0.91	1.29	23	1	—2.5	(f) 2.1	0.0	1	0	0	0	2
RAWALPINDI																					
Jhelum	105.8	—	113	1,2	80.9	—	72	16	0.62	—	0.29	22,23	2	—	3.4	—	9	0	0	0	7
Chaklala	102.5	—	112	3	78.1	—	67	8	1.01	—	0.46	8	3	—	5.3	—	10	0	0	0	5
Rawalpindi	103.3	—0.2	112	2,3	78.7	+2.8	67	8	1.32	—0.99	0.62	8	4	+0.7	3.1	+1.0	7	0	0	0	7
Campbellpur	106.3	—	116	3	80.1	—	67	21	2.04	—	1.27	21	4	—	3.1	—	0	0	0	0	0
SARGODHA																					
Khushab	107.0	+0.4	115	1,2	81.3	—1.0	72	22	0.92	—0.49	0.92	22	1	—1.3	5.0	0.0	0	0	0	0	1
Sargodha	106.5	—	114	1,2	80.6	—	73	11	0.30	—	0.25	10	1	—	6.0	—	6	0	0	0	2
Mianwali	108.3	—	117	2	82.0	—	72	24	0.48	—	0.25	21	2	—	(x)	—	0	0	0	1	0
Lyallpur	*	—	—	—	82.1	+0.4	72	21,23,26	1.68	+0.46	0.80	21	3	+0.9	3.2	+0.4	3	0	0	0	4
MULTAN																					
Montgomery	105.0	—2.8	114	11,13	82.2	11	71	21	0.60	—0.38	0.60	21	1	—0.6	(x)	—	1	0	0	0	3
Multan (P.B.O.)	106.6	—	115	1	83.4	—	74	27	0.21	—	0.21	26	1	—	5.8	—	3	0	0	2	2
,, (Surface)	106.4	—0.2	116	12	84.8	0.0	75	26,27	0.35	—0.20	0.30	26	1	0.0	(x)	—	3	0	0	0	1
Leiah	108.3	—	117	1,12	*	—	—	—	1.00	—	1.00	20	1	—	(x)	—	1	0	0	2	2
BAHAWALPUR																					
Khanpur (P.B.O.)	104.8	—	113	11	80.9	—	73	24	1.56	—	0.49	23	4	—	6.7	—	4	0	0	0	0
Bahawalpur	107.0	—1.4	115	11,12	83.4	—0.1	76	11,24	1.30	+1.02	0.50	26	4	+3.4	3.5	—1.0	0	0	0	0	0
Fort Abbas	105.8	—	115	11,12	84.3	—	75	26	8.14	—	6.03	26	5	—	*	—	0	0	0	0	0
PESHAWAR																					
Chakdara	102.0	—	108	2,3	73.2	—	66	14	00.0	—	0.00	—	0	—	(x)	—	0	0	0	0	0
Peshawar	104.6	—0.4	111	2,3,30	79.2	+2.0	71	8	0.74	+0.43	0.65	8	1	+0.1	2.5	+0.3	9	0	0	0	3
Risalpur	107.2	—	115	3	78.3	—	71	14	0.21	—	0.17	8	1	—	3.5	—	9	0	0	0	6
Haripur	103.8	—	112	3	77.1	—	66	24,25	0.06	—	0.05	13	0	—	4.9	—	5	0	0	0	2
Kohat (PAF)	104.1	—	113	2	80.3	—	68	21	1.84	—	0.71	8	5	—	5.3	—	10	0	0	0	1
D. I. KHAN																					
Bannu	104.6	—1.5	112	2,3	80.6	+0.9	71	24	0.08	—0.83	0.08	8	0	—1.5	(c) 2.0	—	3	0	0	0	1
D. I. Khan	108.2	+0.4	117	1	81.4	—0.1	72	24	0.19	—0.42	0.15	21	1	—0.3	2.1	+0.3	0	0	0	0	0
AFGHANISTAN																					
Jalalabad (x)																					

(x) Data not available. (*) Data not received. (f) Mean for 25 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JUNE, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog. (Visibility Code Figure 93 or less)	Haze (dust). (Visibility Code Figure 93 or less)	Dust Storm. (Visibility Code Figure 93 or less)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
QUETTA																					
Sibi	112.1	—0.6	119	12,14	87.5	0.0	77	14	2.97	+2.67	0.97	9,22,24	3	+2.5	4.5	—0.4	3	0	0	0	1
KALAT																					
Nokkundi	108.0	—1.3	118	8	81.7	+0.1	71	11	0.00	0.00	0.00	—	0	0.0	x	—	0	0	0	0	0
Turbat	112.2	—	119	6,15	(x)	—	x	—	0.35	—	0.35	23	1	—	x	—	0	0	0	0	0
Jiwani	93.8	—	100	12	80.1	—	75	18	0.00	—	0.00	—	0	...	8.6	—	0	0	0	0	0
Pasni	96.0	+2.2	115	14	*	—	*	—	0.00	—0.26	0.00	—	0	—0.2	9.3	+2.7	0	0	0	0	0
KARACHI FEDERAL TERRITORY																					
Ormara	96.5	+3.8	110	11,13	82.1	+0.1	75	23	0.13	+0.10	0.13	23	1	+0.8	8.6	—0.2	0	0	0	0	0
Lasbela	108.1	+2.5	121	13	80.8	+0.4	77	27	x			—			x	—	0	0	0	0	0
Karachi (Manora)	94.1	+3.7	107	12	82.5	+0.2	79	1,28	0.26	—0.46	0.26	28	1	+0.4	x	—	1	0	0	0	0
Karachi (Mauripur)	93.4	—	109	11	82.7	—	80	4 days	0.26	—	0.19	28	1	—	9.5	—	1	0	0	1	2
Karachi (City)	92.6	—	106	12	82.6	—	73	11	1.20	—	1.20	28	1	—	7.4	—	1	0	0	0	0
Karachi (Airport)	94.8	—	108	12	82.3	—	76	28	0.66	—	0.66	28	1	—	10.1	—	1	0	0	0	1
Gadap																					
HYDERABAD																					
Mithi	101.9	—	115	12	80.4	—	73	27	4.64	—	1.89	23	5	—	3.1	—	0	0	0	0	0
Nagarparkar	99.5	—	110	12	x	—	x	—	8.77	—	2.63	27	9	—	—	—	4	0	0	0	0
Umarkot	101.7	—	113	12	80.7	—	76	24	3.23	—	1.35	25	4	—	x	—	3	0	0	0	0
Chhor	100.1	—	109	11,12	80.5	—	76	24,25,26	3.93	—	1.49	25	5	—	6.6	—	3	0	0	0	0
Hyderabad	102.4	—2.1	114	2,13	81.5	—0.5	78	23,24	1.63	+0.24	0.69	29	3	+2.4	7.2	—2.6	2	0	0	0	1
Badin	99.3	—1.7	112	12	79.9	—2.1	76	24	0.94	+0.29	0.50	23	2	+1.2	—	—	2	0	0	0	0
KHAIRPUR																					
Padidan	107.4	—	114	13	80.4	—	72	11	0.88	—	0.78	24	2	—	8.1	—	1	0	0	0	0
Nawabshah	105.6	—	115	14	80.8	—	71	12	2.11	—	0.80	25	4	—	7.0	—	3	0	0	1	0
Sukkur	106.1	—3.0	114	13	81.3	—2.1	88	24	0.19	+0.05	0.14	24	1	+0.5	(m) 2.4	—1.8	0	0	0	0	0
Kashmore	111.5	—	115	19,20,21	77.3	—	71	12	0.67	—	0.38	24	2	—	x	—	2	0	0	0	1
Jacobabad	108.6	—5.3	118	13	82.7	—2.2	71	22	3.20	+2.94	2.15	22	3	+2.7	7.4	+1.2	3	0	0	0	2
JUNAGARH																					
Veraval	x	—	x	—	—	—	x	—	0.00	—	0.00	—	0	—	x	—	0	0	0	0	0
ARABIA																					
Muscat (x)																					
... ...																					
HILL STATIONS																					
KASHMIR																					
Srinagar (x)																					
Gulmarg (x)																					
Gurez (x)																					
Sonamarg (x)																					
Dras (x)																					
Kargil (x)																					
Leh (x)																					
Skardu (x)																					

(*) Data rejected. (x) Data not available. (m) Mean for 18 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JUNE, 1961.

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog. (Visibility Code Figure 93 or less)	Haze (dust). (Visibility Code Figure 93 or less)	Dust Storm. (Visibility Code Figure 93 or less)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR																					
Misgar	70.1	—	79	4,30	48.2	—	39	14	0.09	—	0.09	14	0	—	2.4	—	0	0	0	0	0
Allabad (x)																					
Gilgit (x)																					
RAWALPINDI																					
Murree	78.7	—2.0	87	2	59.9	—0.6	51	22	3.63	—0.35	1.13	8	5	—0.8	5.6	+1.6	11	1	0	0	0
PESHAWAR																					
Drosh	96.4	+4.5	106	2	70.0	+1.5	62	9,10	1.29	+0.64	0.77	9	2	0.0	4.0	+0.3	9	0	0	0	0
Cherat	94.7	+1.45	103	2,3	73.4	+0.2	64	8,22	0.62	—0.52	0.62	9	1	—1.0	1.9	—3.8	7	0	0	0	0
Kakul	91.9		99	3	70.9	—	63	22,24	1.86	—	0.61	24	5	—	x	—	14	0	0	1	3
Balakot (x)																					
Landikotal	98.0	—	108	30	72.9	—	65	24	0.53	—	0.31	7	2	—	x	—	0	0	0	0	1
Parachinar	88.1	+0.4	96	4	64.0	+0.3	57	22	2.04	+0.04	1.00	22	3	—1.5	2.6	+0.2	0	0	0	0	0
D. I. KHAN																					
Miransahah	100.0	+1.1	108	2,3	76.9	—0.2	66	22	0.00	—0.91	0.00	—	0	—1.6	(*)	—	0	0	0	0	0
Wana	95.2	+0.6	102	2,4	67.9	—0.4	61	10	0.95	+0.52	0.45	22	3	+1.5	1.8	—	0	0	0	0	0
QUETTA																					
Fortsandeman (P.T.)	98.1	—1.1	105	6,7	74.0	+1.1	64	22	0.66	+0.02	0.48	22	2	+0.7	—	—	0	0	0	0	0
,, (P.B.O.)	97.4	—	104	4 days	72.2	—	63	22,25	0.69	—	0.50	22	2	—	3.6	—	9	0	0	0	0
Hindubagh	92.4	—	100	5,6,7	*	—	—	—	0.00	—	0.00	—	0	—	5.3	—	0	0	0	3	0
Loralai	95.6	—	103	7	66.2	—	57	10,15	0.29	—0.06	0.18	19	2	+1.9	3.1	—	0	0	0	0	0
Harnai									2.50	+1.75	1.05	22	3	+1.5	—	—	0	0	0	0	0
Samungli	93.1	—	100	7,30	61.1	—	45	11	0.19	—	0.19	23	1	—	(b) 6.5	—	2	0	0	0	0
Quetta (P.T.)	91.5	—	98	7,8	62.5	—	50	13	0.04	—	0.04	18	0	—	3.5	+1.3	2	0	0	0	0
,, (P.B.O.)	93.0	—	99	6,7,8	65.7	—	53	10	0.04	—	0.04	19	0	—	3.0	—	2	0	0	0	0
Chaman	98.4	—0.4	105	29,30	69.8	—2.4	61	10	0.00	—0.02	0.00	—	0	0.0	x	—	0	0	0	0	0
Nushki	106.1	—	115	29	79.9	—	68	10	0.00	—	0.00	—	0	—	—	—	0	0	0	0	0
Dalbandin	106.9	—0.4	113	8,21,29	74.5	+1.5	60	10	0.00	—0.01	0.00	24	0	0.0	5.3	+0.5	1	0	0	0	0
KALAT																					
Kalat	87.3	+3.0	95	5	56.1	—1.6	41	11	0.00	—0.19	0.00	—	0	—0.4	x	—	0	0	0	0	0
Panjgur	100.9	—2.3	109	8	74.0	—0.6	64	11	0.00	—0.12	0.00	—	0	—0.4	—	—	0	0	0	0	0
AFGHANISTAN																					
Kabul	86.8	—0.1	93	5,7	55.1	—0.9	47	12,13	0.04	—0.13	0.02	19,22	0	—0.5	x	—	0	0	0	0	0
Kandahar	96.4	—	101	30	65.8	—	54	10	0.00	—	0.00	—	0	—	0.5	—	1	0	0	0	1

(*) Data rejected. (x) Data not available. (b) Mean for 29 days.

REGD. No. S. - 1452

PAKISTAN WEATHER REVIEW, 1961

MONTHLY WEATHER REPORT

July

(PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN)

Chief Features:

1. Active monsoon over East Pakistan between the 6th and the 17th causing fairly widespread and locally moderate to heavy rainfall in the province.

2. Formation of a shallow depression over southeast sector of north Arabian sea in the early part of the first week.

3. Pronounced rainfall activity in the northern parts of West Pakistan during the third week and towards the end of the month due to passage of active western disturbances across the north of the region.

East Pakistan

The Monsoon weakened after causing fairly widespread rain in Dacca division with local showers elsewhere in East Pakistan on the 1st. Thereafter rainfall was recorded locally or at a few places up to the 5th. The monsoon however, strengthened on the 6th and nearly general rain fell practically over the whole province with locally heavy falls upto the 17th.

During the rest of the month monsoon was generally weak and local rain or scattered falls occurred in the province except on the 22nd and 25th and 30th and 31st when fairly widespread rain fell in Chittagong division.

Noteworthy amounts of rainfall were Cox's Bazar 4" on the 6th, Cox's Bazar 7" and Chittagong 5" on the 7th; Chittagong 4" on the 8th; Cox's Bazar 4" on the 10th; Chittagong 4" on the 13th; Rangamati 9" and Cox's Bazar, Chittagong and Rangpur 6" on the 14th; Cox's Bazar 9" and Comilla and Narayanganj 5" each on the 15th; Cox's Bazar 5" on the 16th and Chittagong 4" on the 26th. The total rainfall during the month was in moderate excess in Chittagong division, normal in Dacca division and in large defect elsewhere. Averaged over the region as a whole it was in slight defect. The average temperatures, relative humidity and the cloud amount were normal over the province during the month.

West Pakistan

A shallow depression in the north Arabian Sea was centred at 0300 GMT on the 2nd within half a degree of Latitude 20-1/2 degree N and Longitude 71 degree E. It moved initially northwards and recurved to the northeast and finally weakened into a well marked low over Kutch and adjoining areas by the morning of 4th. It continued to move as a low till the 8th morning when it became unimportant over Hyderabad division. Fairly widespread rain or thunder showers occurred in Hyderabad division and local in Khairpur division and Karachi Federal Territory on the 5th and scattered rain fell in most of the southern divisions on the remaining days between the 4th and the 7th. Simultaneously during the first fortnight a series of western disturbances affected the northern parts of the province and caused mainly scattered rainfall there during the period. Lahore and Rawalpindi divisions however received fairly widespread rain on a number of days. The monsoon remained fairly active in West Pakistan during the second fortnight when two western disturbances and an easterly low pressure wave caused widespread rain or thundershowers in Rawalpindi division and local in Peshawar division on the 16th and a marked spell of wet weather practically throughout the region outside Kalat division during the next three days with locally moderate to heavy falls in Peshawar, D. I. Khan, Multan and Quetta divisions. Subsequently the rainfall activity persisted over the region due to a more southerly displacement of the axis of the monsoon trough from its normal position causing well marked incrusion of monsoon air and the passage of three westerly low pressure waves across the northern parts. As a result fairly widespread to widespread rain of thundershowers occurred in Peshawar Division and Karachi Federal Territory on the 20th, in Lahore division on the 21st, in Rawalpindi division between 23rd and the 26th, in Quetta and Khairpur divisions on the 24th, in Kalat division and Karachi Federal Territory on the 25th and in Peshawar, Khairpur and Hyderabad divisions on the 26th. The rainfall was locally moderate to heavy in most of thesedivisions on these days but was otherwise mainly scattered to local over the province. On account of the heavy falls in its Catchment areas and in neighbouring Indian region the river Indus was in high flood and broke its bund at some places as reported by newspapers. Towards the end of the month under the combined influence of a trough of low which extended westwards across Hyderabad division and the passage of two westerly low pressure wave which moved across the northern parts fairly widespread to widespread rain fell in Rawalpindi and Multan Divisions on the 27th, in Karachi Federal Territory on the 28th, in Lahore and Rawalpindi divisions on the 30th and 31st and mainly scattered to local rainfall elsewhere in the province between the 27th and the 31st.

The heaviest rainfall of the month occurred during the period when Sialkot reported 10" on the 31st; other outstanding rainfall amounts were D. I. Khan 3" on the 17th, Montgomery 3" on the 18th, Rawalpindi, Lahore and Leiah 3", each on the 27th and Lahore 3" on the 31st. The total rainfall during the month was in large defect in Sargodha division, normal in Rawalpindi division, moderate excess in Khairpur division and large excess elsewhere. Averaged over the region as a whole it was in large excess.

The mean maximum temperature was below normal in Rawalpindi and Bahawalpur divisions, above normal in the Karachi Federal Territory and normal over rest of the region. The mean minimum temperature was normal over the whole region.

The mean relative humidity was normal over the whole region outside Rawalpindi and Hyderabad divisions where it was in excess.

The mean cloud amount was normal over Sargodha, Peshawar, Kalat, Karachi Federal Territory and Hyderabad divisions and in excess elsewhere.

Table I contains the divisional means of rainfall, temperature, relative humidity and the cloud amount for the 16 divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

TABLE I—DIVISIONAL MEANS FOR JULY 1961.

Division	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb	%	
EAST PAKISTAN									
Chittagong	25.75	20.71	+5.04	+35	—0.3	+0.6	+0.5	0	+0.1
Dacca	13.39	13.91	—0.52	—4	+0.5	+0.2	0.0	—1	+0.4
Khulna	7.00	14.12	—7.12	—51	+0.5	+0.7	+0.3	—1	—0.1
Rajshahi	6.50	13.44	—6.94	—52	+0.2	+1.6	+0.3	0	—0.3
Mean	14.02	15.93	—1.91	—12	+0.2	+0.8	+0.3	0	0.0
WEST PAKISTAN									
Kashmir (x)									
Lahore	16.31	6.90	+9.41	+136	—1.5	+0.7	+2.2	+5	+0.7
Rawalpindi	11.15	10.23	+0.92	+9	—3.1	+0.7	+1.8	+9	+1.9
Sargodha	1.67	3.38	—1.71	—51	—1.5	+0.1	+2.5	+5	—0.4
Multan	4.51	2.21	+2.30	+104	—0.4	—0.7	+0.3	+3	+0.5
Bahawalpur	1.83	2.44	—0.61	—25	—3.1	+0.9	+0.7	+2	+0.8
Peshawar	5.04	2.25	+2.79	+124	—1.1	+0.9	+3.1	+5	+0.4
D. I. Khan	3.67	1.95	+1.72	+88	—0.9	+0.2	+3.2	+5	+0.6
Quetta	3.91	1.39	+2.52	+181	—0.5	+1.8	+2.7	+4	+0.6
Kalat	1.33	0.47	+0.86	+183	—0.7	+1.2	+2.1	—1	0.0
Karachi Federal Territory	3.11	1.93	+1.18	+61	+2.5	—0.5	+2.5	—2	—0.4
Hyderabad	6.29	3.47	+2.82	+81	—0.7	—0.2	+3.8	+9	—0.3
Khairpur	1.65	1.19	+0.46	+39	—1.5	+0.3	—0.3	—2	+1.9
Mean	3.92	2.23	+1.69	+76	—0.9	+0.7	+2.2	+3	+0.4
Junagadh (x)									

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
EAST PAKISTAN																							
CHITTAGONG																							
Rangamati	0000	208	995.4		1002.5	78.1	76.2	75.3	30.0		92		6.1		1	0	0	0	29	1	0	0	0
	0300		996.2		1003.3	82.0	78.6	76.4	31.9		86		5.6		0	0	1	1	29	0	0	0	0
	1200		993.9		1001.0	82.1	78.5	77.1	31.6		85		6.3		2	0	0	0	26	3	0	0	0
Cox's Bazar (P.T.)	0300	38	1001.2	—0.1	1002.5	80.0	78.3	77.7	32.3	+0.4	93	+5	5.8	—0.7	1	0	1	12	14	3	0	0	0
	1200		999.2		1000.5	79.6	78.0	77.4	32.1		93		6.2		0	0	0	4	16	9	1	1	0
Chittagong (Patenga)	0000	20	1000.7		1001.4	77.7	77.0	76.9	31.4		97		7.1		0	0	6	19	3	1	0	1	1
	0300		1001.7		1002.4	81.0	78.6	77.5	32.3		89		6.7 (a)		0	0	3	19	4	3 (a)	0	0	2
	1200		999.1		999.8	81.8	79.2	78.0	32.9		89		7.4		0	0	0	6	16	6	1	0	1
Chittagong (P.T.)	0300	46	1000.8	—0.1	1002.4	80.8	77.6	76.2	30.9	—0.3	87	+1	6.9	+0.6	0	0	4	16	8	1	0	0	2
	1200		998.4		999.9	81.2	78.2	77.0	31.6		87		7.4		0	0	1	6	18	5	1	0	0
Maijdi Court	0000	25	999.9		1000.8	79.2	78.0	77.7	32.2		95		6.6		1	0	0	8	4	0	0	0	18
	0300		1000.8	—0.2	1001.7	81.6	78.6	77.6	32.1	—0.5	88	0	6.5	+0.9	0	0	0	9	10	0	0	0	12
	1200		998.1		999.0	83.1	79.5	77.5	32.5		84		6.0		0	0	0	9	17	1	1	0	3
Comilla	0000	29	998.9		999.9	79.1	77.8	77.1	31.5		93		6.4		0	0	1	8	18	0	0	0	4
	0300		999.6	—1.4	1000.6	83.1	79.8	77.7	32.8	+0.6	84	—1	6.2	+0.4	0	0	3	13	10	0	0	0	5
	1200		996.6		997.6	84.3	79.8	78.0	32.4		82		5.8		1	0	0	9	15	0	0	0	6
Brahmanbaria	0000	32	999.4		1000.5	79.4	77.9	77.3	31.9		92		5.6		0	0	0	19	9	0	2	1	0
	0300		1000.5		1001.6	83.8	79.6	77.9	32.7	+1.9	83	+2	5.9		1	0	0	19	9	1	0	0	1
	1200		997.5		998.6	85.2	80.6	79.0	33.4		83		5.9		1	0	0	11	9	4	4	0	2
Sylhet (P.B.O.)	0000	115	997.0		1001.0	78.3	77.3	77.0	31.6		95		7.4		0	1	4	8	2	0	0	1	15
	0300		997.9		1001.8	82.5	79.1	77.8	32.5		86		6.7		1	4	5	11	3	0	1	0	6
	1200		994.5		998.4	84.9	80.4	78.6	33.4		82		6.3		0	0	0	7	2	0	4	3	15
Srimangal	0000	77	998.5		1001.2	77.9	76.5	76.1	32.6		93		4.5		0	0	0	1	1	0	0	0	29
	0300		999.0	—1.1	1001.7	83.7	79.2	77.3	32.4	+0.6	81	—5	4.7	—0.7	0	0	8	13	3	1	2	0	4
	1200		995.9		998.5	84.2	79.9	72.8	32.4		82		6.8		1	2	2	6	5	1	2	2	10
DACCA																							
Mymensingh	0000	62	998.3		1000.4	79.7	78.3	77.9	32.5		94		6.2		0	0	8	2	0	0	2	0	19
	0300		999.6	—0.1	1001.7	82.6	79.6	78.5	33.1	+0.6	87	0	6.8	—0.1	0		13	8	0	0	1	0	9
	1200		996.2		998.3	85.8	80.6	78.6	33.4		79		5.8		0	0	11	8	0	0	2	0	10
Jamalpur (R)	0000																						
	0300																						
	1200																						
Narayanganj	0000	26	999.2		1000.1	80.4	78.6	77.9	32.6		92		7.5		0	0	8	8	5	1	2	0	7
	0300		1000.1	—0.4	1001.0	83.6	79.6	77.9	32.7	—0.2	83	—2	7.3	+0.3	0	0	5	15	4	4	2	1	0
	1200		997.1		998.0	85.3	80.1	78.0	32.6		79		6.9		0	0	3	10	12	4	2	0	0

(a) Observation for 30 days. (R) Register not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mb. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Dacca Division—contd.	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Dacca (Tejgaon)	0000	32	998.4		999.5	79.5	78.5	78.0	32.9		95		7.1		0	0	1	9	8	6	0	1	6
	0300		999.5		1000.6	82.4	79.5	78.3	33.1		88		6.9		0	0	1	12	5	9	2	1	1
	1200		996.0		997.1	84.3	79.9	78.2	32.9		82		6.2		0	0	0	8	6	15	1	0	1
Faridpur	0000	46	997.6		999.2	79.8	78.2	78.1	32.3		94		6.6		0	0	0	10	9	0	0	0	12
	0300		998.9	—0.4	1000.5	83.8	79.9	78.1	33.2	—0.5	83	—2	7.1	+0.9	1	1	1	11	14	3	0	0	0
	1200		996.1		997.7	84.5	80.4	79.0	33.5		83		5.0		0	0	1	10	11	2	0	0	7
KHULNA																							
Barisal	0000	11	999.7		1000.1	80.6 (d)	78.9 (d)	78.2 (d)	33.0 (d)		93 (d)		5.5		0	0	3	1	0	0	0	0	27
	0300		1000.5	—0.2	1000.9	85.6	80.7	77.9	33.1	0.0	80	—7	6.0	—0.3	0	0	2	6	2	0	0	0	21
	1200		997.7		998.1	84.7	80.1	78.0	33.0		81		5.2		0	0	2	6	7	0	0	0	16
Khulna	0000	16	999.0		999.6	80.0	79.0	78.7	33.4		95		4.9		0	1	1	0	0	3	0	0	26
	0300		1000.0	—0.2	1000.6	83.8	80.2	78.7	33.6	+0.8	85	+2	6.0	—1.0	0	1	0	3	2	4	0	0	21
	1200		997.3		997.9	83.8	80.3	79.0	33.8		85		5.6		0	0	0	5	2	3	0	0	21
Satkhira	0000	16	999.0		999.6	79.8	78.5	77.8	32.7		94		6.3		0	0	0	1	1	1	0	0	28
	0300		999.8	+0.3	1000.3	84.6	80.5	78.2	33.7	0.0	82	—3	6.4	+0.5	0	0	0	1	1	6	0	0	23
	200		997.0		997.5	85.2	80.6	78.7	33.5		82		6.8		0	0	0	1	0	3	0	0	27
Jessore (P.T.)	0000	26	997.7		998.6	79.2	78.5	78.0	33.0		96		6.3		0	0	9	1	9	0	0	0	12
	0300		999.2	—0.6	1000.1	83.2	80.2	79.4	34.0	+0.4	89	+4	6.7	+0.3	0	1	3	11	11	1	0	0	4
	1200		996.7		997.6	85.1	82.3	81.2	36.4		89		6.0		0	0	3	1	27	0	0	0	0
RAJSHAI																							
Pabna	0000	48	997.6		999.2	79.6	78.6	78.4	33.0		95		6.4		0	1	4	11	3	5	0	0	6
	0300		998.4	—	1000.0	83.4	80.0	78.7	33.5	—0.1	86	+2	7.1	—	0	1	0	16	4	9	0	0	1
	1200		995.2		996.8	85.4	80.8	78.9	33.9		82		5.8		0	1	3	15	3	5	0	0	4
Ishurdi	0000					79.2	78.2	77.8	32.5		97		7.5 (d)		0	1	10	5	10	3	0	0	2
	0300					83.1	79.8	78.6	33.2		86		7.2		0	0	6	11	10	3	1	0	0
	1200					84.7	80.9	79.6	34.3		85		7.0		0	0	5	14	5	4	3	0	0
Sirajganj	0000	51	997.9		999.6	79.9	78.7	78.3	33.0		95		6.5		0	0	0	11	0	0	0	0	20
	0300		998.7	—	1000.4	82.9	79.8	78.5	33.3		86		6.3		0	1	1	9	7	4	0	0	9
	1200		995.4		997.1	85.8	80.8	78.9	33.8		81		5.7		0	1	0	9	11	4	0	0	6
Rajshahi (R)	0000	73																					
	0300																						
	1200																						
Bogra (P.B.O.)	0000	65	997.2		999.4	80.0	78.9	78.5	33.2		96		6.7		0	0	6	8	2	2	0	0	13
	0300		998.3	—0.3	1000.5	83.3	80.0	78.4	33.7	+0.5	86	+1	6.9	+0.6	0	0	7	11	2	5	1	0	5
	1200		995.0		997.2	86.4	81.2	79.2	33.8		80		6.1		0	0	6	13	1	5	1	0	5
Dinajpur	0000	123	995.0		999.1	80.9	79.2	78.3	33.3		92		5.6		0	0	7	0	0	0	0	0	24
	0300		995.8	—0.7	999.9	84.7	80.3	78.4	33.4	+0.6	82	—4	4.9	—1.3	0	0	7	0	0	0	0	0	24
	1200		992.6		996.7	86.8	80.9	78.6	33.4		77		4.2		0	0	3	0	0	0	0	0	28
Rangpur	0000	113	996.2		1000.1	80.3	79.1	78.7	33.4		95		5.9		4	2	12	5	2	0	0	0	6
	0300		996.9		1000.8	83.6	80.1	78.5	33.5		85		5.8		1	1	18	7	1	1	1	1	0
	1200		993.6		1007.5	86.7	81.3	79.0	33.1		77		4.8		1	2	7	17	0	0	4	0	0

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
KASHMIR																							
Jammu (x)	0300	1200																					
	1200																						
LAHORE																							
Lahore (P.B.O.)	0000	702	972.6		996.2	82.7	78.6	76.8	31.6		83		4.5		0	1	0	7	2	2	1	0	8
	0300		973.8	—0.2	997.4	86.0	79.8	77.3	32.0	+2.6	76	+7	4.3	+1.1	0	3	3	11	0	4	0	0	10
	1200		971.1		994.3	93.8	81.8	76.8	31.7		58		4.2		0	5	1	8	2	2	1	2	10
Lahore (Cantt.)	0000	709	971.9		995.8	82.8	79.3	77.8	32.6		85		4.4		0	3	7	9	2	5	0	0	5
	0300		973.2	—	97.0	85.6	80.2	79.9	32.8	—	78	—	4.6	—1.1	0	3	6	6	5	7	0	0	4
	1200		970.5		993.9	93.0	81.9	77.3	32.1		61		4.3		1	3	6	9	4	3	3	0	2
Sialkot	0000	830	(a) 967.9		(a) 995.8	(a) 82.1	(a) 77.9	(a) 75.9	30.7		82		3.0		0	6	0	1	0	0	0	0	24
	0300		969.5	—0.5	997.4	85.1	79.4	77.5	31.7	+1.8	77	+2	3.5	+0.3	0	9	0	1	0	0	0	0	21
	1200		966.7		993.9	93.9	83.5	79.3	34.5		63		3.1		0	4	0	5	0	2	0	2	18
RAWALPINDI																							
Jhelum	0000	767	970.1		996.1	80.8	77.9	76.5	31.3		87		4.3		5	2	5	5	0	1	0	0	15
	0300		971.8	—	997.5	84.3	78.7	76.2	31.0	—	77	—	5.1	—	4	3	4	7	0	1	1	2	9
	1200		968.3		333.6	93.7	81.4	76.3	31.1		57		3.3		2	1	3	9	2	8	0	0	6
Chaklala	0000	1667	942.1		997.5	79.7	75.8	74.5	28.8		83		5.1		0	4	7	5	0	0	2	1	12
	0300		943.0	—	998.3	82.3	76.0	73.5	28.1		74	—	4.9	—	1	6	9	6	2	1	0	2	4
	1200		940.7		994.9	91.1	77.9	72.5	27.2		55		3.8		3	0	2	7	8	1	6	0	4
Rawalpindi	0000	1675	941.2		997.0	79.9	76.2	74.6	29.3		84		5.0		0	5	10	1	0	0	0	2	13
	0300		942.2	—0.1	997.7	82.8	76.7	74.2	28.9	+2.4	76	+10	5.0	+1.6	1	9	9	2	1	0	0	0	9
	1200		939.5		993.9	90.9	79.4	74.9	29.6		60		4.1		0	2	4	3	10	7	1	0	4
Campbellpur	0300	1175	958.1	—	997.3	84.4	77.1	74.6	28.5	—	70	—	3.8	—	0	2	0	8	1	1	0	0	19
	1200		955.0		993.3	96.3	(a) 80.4	73.5	28.3		48		2.8		0	1	0	14	0	5	0	0	11
SARGODHA																							
Khushab	0000	616	(b) 974.6		(b) 995.3	(a) 85.1	(a) 78.5	(a) 75.5	30.3		73		1.5		0	0	17	0	0	0	0	0	14
	0300		976.5	—0.2	997.1	87.7	79.8	76.1	31.2	+2.1	69	+3	2.2	—0.3	0	1	17	1	1	0	0	0	11
	1200		973.4		993.7	97.5	81.8	75.2	29.9		49		1.8		0	0	16	1	1	0	3	0	10
Sargodha (P.A.F.)	0000	617	974.9		995.8	84.5	78.8	76.4	31.3		77		3.1		0	6	14	3	3	3	0	0	2
	0300		976.4	—	997.0	87.7	79.9	76.1	31.3	—	70	—	3.6	—	0	5	17	3	0	6	0	0	0
	1200		973.5		993.7	97.1	81.4	74.6	29.4		50		4.3		2	7	10	3	0	4	2	2	1
Mianwali (R)	0000	679																					
	0300																						
	1200																						
Lyallpur	0000	605	975.2		996.0	(c) 84.4	(c) 78.7	(c) 75.9	30.9		76		1.5		0	3	0	7	0	5	1	1	14
	0300		(b) 976.2	—0.3	(b) 996.5	86.7	79.4	76.3	31.0	+2.8	71	+8	2.7	—0.5	1	2	1	4	5	3	6	3	6
	1200		973.2		993.0	96.8	81.7	75.2	30.1		51		3.8		1	2	1	5	4	2	5	3	8
MULTAN																							
Montgomery	0000	558	976.4		995.1	84.5	78.9	76.3	31.1		77		2.3		0	1	1	2	0	6	0	0	21
	0300		978.3	+0.2	997.1	87.5	80.3	77.3	31.9	+0.2	73	+3	1.8	—0.1	0	1	0	2	0	11	0	0	17
	1200		974.9		993.3	86.9	81.4	74.9	29.6		50		3.3		0	1	4	8	2	6	3	0	7
Multan (P.B.O.)	0000	404	981.0		994.6	85.8	79.3	76.4	31.3		74		2.3		3	0	2	10	1	0	0	0	15
	0300		982.3	—	995.8	89.2	80.5	76.7	31.6	—	67	—	3.0	—	4	5	1	3	7	3	1	1	6
	1200		979.8		993.0	98.3	81.3	73.7	28.8		46		4.2		2	4	2	3	7	4	0	1	8

(R) Register not received. (x) Data not available. (a) Mean for 30 days. (b) Mean for 29 days. (c) Mean for 26 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Multan (Surface)	0300	413	981.8	—0.7	995.6	88.9	81.1	77.9	32.7	+0.3	70	+2	2.9	+1.1	2	0	4	0	8	1	3	1	12
	1200		979.2		992.7	98.6	82.8	76.4	31.1		50		3.6		3	0	1	0	11	2	1	1	12
Leiah	0000	487	*		*	*	*	—	—		—		2.1		4	7	0	4	7	6	0	2	1
	0300		*	...	*	*	*	—	—	...	—	...	2.1	...	5	1	1	1	9	5	0	3	6
	1200		*		*	98.2	81.5	74.2	29.1		47		4.8		4	5	0	2	6	6	0	3	5
BAHAWALPUR																							
Khanpur (P.B.O.)	0000	290	984.9		994.8	84.4	79.4	77.4	32.0		80		2.6		1	6	1	0	4	12	0	0	7
	0300		986.1	...	995.9	88.2	80.6	77.4	32.4	...	71	...	2.6	...	3	6	2	1	0	16	1	0	2
	1200		982.8		992.3	100.4	82.4	74.2	29.6		45		3.6		6	6	0	2	3	8	2	1	3
Bahawalpur	0300	384	982.8	—0.8	995.7	89.9	81.9	78.3	32.6	+0.7	70	+2	3.0	+0.8	0	3	0	5	3	3	0	1	16
	1200		(f) 980.6		(f) 993.1	99.2	84.0	78.5	32.9		52		2.6		1	1	1	1	3	2	0	1	21
Fort Abbas	0000	475	979.7		995.7	84.5	79.3	76.5	31.8		79		0.1		1	1	4	1	10	7	2	0	5
	0300		980.6	...	996.3	90.1	80.6	76.4	31.3	...	65	...	0.1	...	1	1	4	3	8	10	2	0	2
	1200		977.8		993.5	98.6	82.0	74.7	29.7		48		0.3		4	1	5	3	7	4	4	0	3
PESHAWAR																							
Chakdara	0000	2197	922.2		994.9	76.9	72.5	70.1	25.4		80		1.1		11	0	2	0	1	0	0	0	17
	0300		923.4	...	995.5	81.8	74.5	70.5	26.2	...	70	...	1.2	...	6	0	2	0	4	0	1	0	18
	1200		920.7		991.0	92.5	77.9	71.4	26.6		52		0.0		3	0	3	0	10	0	2	0	13
Peshawar	0000	1177	956.2		995.4	82.9	76.5	73.4	28.3		73		3.5		3	2	1	2	2	0	3	13	5
	0300		957.7	—0.6	996.8	86.1	78.3	74.7	29.5	+4.1	69	+11	2.9	+0.1	10	5	1	1	2	0	0	10	2
	1200		954.4		992.5	97.5	80.0	71.8	27.0		45		3.3		7	14	1	3	3	1	1	0	1
Risalpur	0000	1047	960.1		994.9	84.2	77.7	74.7	29.5		73		4.1		0	3	15	2	0	1	0	0	10
	0300		961.8	...	996.4	86.8	78.5	74.6	29.5	...	68	...	3.9	...	0	2	12	4	2	3	1	0	7
	1200		958.4		992.3	98.7	80.6	72.3	27.4		44		3.2		0	6	11	6	1	1	2	0	4
Haripur	0300	1757	938.2	...	996.1	83.9	75.1	71.3	26.2	...	66	...	5.1	...	0	3	0	2	0	25	0	1	0
	1200		936.9		994.0	91.0	76.3	69.0	24.9		51		4.4		0	0	0	8	0	20	0	3	0
Kohat (P.A.F.)	0000	1683	940.7		996.3	83.7	75.7	71.3	27.1		68		3.6		2	2	5	2	0	1	0	6	13
	0300		942.2	...	997.5	86.3	76.4	71.9	27.0	...	62	...	3.3	...	2	0	4	6	3	3	1	4	8
	1200		939.5		993.8	95.2	77.1	68.6	24.4		43		3.7		0	4	4		5	6	2	1	2
D. I. KHAN																							
Bannu	0000	1263	953.0		995.0	84.3	78.7	76.0	31.7		77		3.5		0	2	0	0	1	0	1	0	27
	0300		954.2	...	996.0	88.2	80.2	76.5	31.5	+5.0	69	+11	3.6	+1.5	0	3	4	3	0	0	0	1	20
	1200		951.7		992.6	97.5	(a) 81.7	(a) 75.4	29.8		49		3.5		1	4	8	9	2	1	0	1	5
D. I. Khan	0000	570	975.7		994.9	83.9	79.9	78.1	33.2		83		2.8		0	2	0	0	0	0	0	0	29
	0300		977.0	—0.3	996.1	88.1	81.5	78.8	33.7	+2.8	75	+6	2.2	+0.2	0	6	2	1	0	0	0	0	22
	1200		(a) 974.2		(x) 992.9	(x) 96.4	(a) 83.2	(a) 77.9	32.8		56		2.2		0	3	1	0	1	0	0	1	(a) 24
AFGHANISTAN																							
Jalalabad	0000	1950																					
	0300																						
	1200																						

(x) Data not available. (*) Data rejected. (f) Mean for 25 days. (a) Mean for 30 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
QUETTA																							
Sibi	0000	441	980.6		995.3	89.4	80.4	77.0	31.3		69		3.0		6	1	1	11	4	0	1	0	7
	0300		983.0	+2.1	997.7	90.4	81.3	77.7	32.3	+5.2	68	+13	2.9	+1.3	1	4	0	11	5	3	0	2	5
	1200		978.1		992.3	104.7	85.6	77.9	31.3		48		3.4		0	2	0	9	12	3	1	2	3
KALAT																							
Nokkundi	0000	2229	922.2		993.6	85.6	70.5	62.2	19.3		46		1.4		11	1	1	1	0	0	0	11	6
	0300		922.3	—	994.0	90.9	74.3	66.1	22.2	+5.0	46	+8	1.4	+0.4	10	4	4	1	0	1	1	9	1
	1200		919.2		998.4	108.2	80.7	68.8	24.5		30		0.9		12	2	1	1	2	0	2	11	0
Turbat	0000	510	977.7		994.8	85.4	79.0	76.2	30.9		75		3.0		0	0	0	0	3	4	1	0	23
	0300		978.8	—	995.8	87.7	80.2	76.7	31.8	—	71	—	3.4	—	0	0	0	0	0	0	0	0	31
	1200		975.7		992.5	102.7	81.1	69.5	2.64		41		2.4		0	0	0	2	6	10	7	0	6
Jiwani	0000	185	989.5		995.7	83.2	80.0	78.8	33.5		87		5.0		0	1	3	7	4	6	2	1	7
	0300		990.5	—	996.7	84.9	80.4	78.6	33.4	—	82	—	5.4	—	0	2	2	9	4	6	5	2	1
	1200		988.3		994.4	89.0	81·1	77.8	32.7		70		4.5		0	1	0	5	13	12	0	0	0
Pasni	0000	28	994.8		995.8	82.4	80.3	79.6	34.4		91		0.0		1	0	1	1	6	5	3	2	12
	0300		995.8	—2.2	996.7	84.9	81.2	79.7	34.7	+2.1	85	+1	5.3	+0.3	1	1	4	5	4	3	4	3	6
	1200		993.4		994.3	88.1	82.4	80.3	35.2		79		4.7		0	1	1	7	13	7	1	1	0
KARACHI FEDERAL TERRITORY																							
Ormara	0000	15	994.7		995.2	82.6	79.7	78.5	33.4		88		6.1		1	1	1	1	1	4	13	0	9
	0300		995.6	—	996.2	85.5	84.0	78.9	39.1	+7.5	80	—3	6.2	+0.5	1	1	1	1	1	3	14	1	8
	1200		993.8		994.3	89.1	81.0	77.5	32.7		70		4.8		0	0	1	1	9	7	11	1	1
Lasbela	0000	292	985.5		995.4	83 0	79.1	76.9	32.1		82		2.4		0	0	0	0	0	0	0	0	31
	0300		987.0	—1.8	996.8	86.0	81.5	79.0	34.7	+1.8	81	0	2.9	—2.5	0	0	0	0	0	1	0	0	30
	1200		982.7		992.2	98.6	88.1	83.6	40.5		64		4.3		0	0	3	7	2	11	1	0	7
Karachi (Manora)	0000	13	994.6		995.0	81.1	77.0	75.1	29.9		83		7.1		0	4	1	0	0	2	14	3	7
	0300		995.9	—2.6	996.4	82.5	78.2	76.3	31.0	—1.8	82	—4	6.9	+0.8	2	4	1	1	0	2	14	5	2
	1200		994.2		994.6	86.9	82.5	80.8	36.0		82		6.8		0	0	0	0	4	8	19	0	0
Karachi (Mauripur)	0000	52	993.4		995.2	82.9	80.1	78.9	33.8		88		5.8		0	2	0	0	0	7	13	5	4
	0300		994.5	—	996.3	84.2	80.6	79.4	34.0	—	85	—	6.6	—	0	2	1	2	0	4	14	4	4
	1200		992.8		994.5	87.1	81.9	79.5	34.8		79		6.4		0	1	2	0	1	17	7	3	0
Karachi (City)	0300	20	995.1	—	995.8	84.5	80.6	79.0	33.9	—	84	—	6.3	—	4	1	2	0	0	10	11	1	2
	1200		993.2		993.9	87.0	81.4	79.1	34.0		78		5.8		0	1	1	0	1	18	8	1	1
Karachi (Airport)	0000	73	992.8		995.3	82.9	80.6	79.8	34.6		90		5.7		1	0	0	0	1	9	10	2	8
	0300		994.0	—	996.5	84.5	81.2	79.8	34.9	—	86	—	6.4	—	0	0	2	0	0	10	8	0	11
	1200		992.2		994.7	87.7	82.3	80.4	35.2		80		6.3		0	0	1	0	2	20	5	3	0
Gadap	0300			—		83.1	79.4	78.0	32.6	—	84		7.3		0	5	1	0	0	9	14	2	0
	1200					86.4	79.8	76.9	31.7		74		7.8		0	2	3	0	0	13	12	1	0
HYDERABAD																							
Mithi	0000	96	992.3		995.8	82.1	81.3	80.7	36.1		88		6.3		0	0	0	1	0	6	1	2	21
	0300		993.6	—	996.9	84.4	82.8	82.6	37.6	—	91	—	6.5	—	0	0	0	1	1	8	0	0	21
	1200		990.7		993.9	91.6	87.2	85.5	42.1		86		5.0		0	0	0	1	0	9	4	0	17
Nagarparker	0000	178	989.3		995.1	80.8	79.3	78.2	33.5		92		6.7		0	0	0	1	0	2	3	3	22
	0300		989.7	—	995.9	82.3	79.8	78.7	33.6	—	89	—	6.6	—	0	0	0	4	1	6	1	1	18
	1200		987.2		993.2	88.1	83.9	83.6	38.1		84		5.2		0	0	1	4	2	8	6	1	9

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Umerkot	0000	55	992.7		991.8	81.3	79.1	78.5	33.2		90		6.6		1	4	1	2	7	10	0	0	6
	0300		994.1	—	996.0	84.1	80.0	78.5	33.3	—	83		6.5		0	2	4	3	7	9	0	0	6
	1200		995.1		993.4	92.6	81.8	77.4	30.2		63	—	6.6	—	1	1	3	3	8	11	1	1	2
Chhor	0000	19	994.5		995.2	81.6	79.2	78.3	33.0		89		5.7		0	0	0	0	2	11	0	0	18
	0300		995.9		996.5	84.4	82.6	78.7	37.3		83		6.0		0	1	0	4	4	13	0	0	9
	1200		993.1		993.7	91.8	82.0	78.0	32.9		66		6.2		0	3	2	2	3	16	1	0	4
Hyderabad	0000	98	991.4		994.7	82.8	79.5	78.3	32.9		86		5.5		1	0	0	0	2	15	0	0	13
	0300		992.5	—1.6	995.9	85.2	80.2	78.0	33.4	+4.6	80	+9	5.0	+1.5	0	0	0	0	0	16	0	0	15
	1200		990.2		993.5	96.6	82.1	77.3	32.1		59		4.1		0	0	2	1	1	19	0	0	8
Badin	0000	31	*		*	81.2	78.7	77.4	32.2		89		2.5		2	1	0	2	0	25	0	0	1
	0300		995.0	—1.1	997.1	83.0	80.5	79.2	34.4	+3.0	89	+10	2.7	—2.2	1	6	1	3	0	19	0	0	1
	1200		994.2		995.0	90.6	83.4	80.3	36.1		75		3.4		4	4	0	1	4	15	0	2	1
KHAIRPUR																							
Padidan	0000	153	988.8		994.0	82.9	78.3	76.4	31.0		83		2.7		6	0	0	16	3	1	0	0	5
	0300		990.0		995.1	86.1	79.9	77.4	32.1		76		3.7		2	4	4	16	1	1	0	1	2
	1200		987.5		992.5	97.2	81.6	74.8	29.8		53		4.0		1	3	4	16	2	2	0	2	1
Nawabshah	0000	124	990.9		995.2	82.8	78.3	76.5	31.1		82		3.4		1	0	0	0	14	0	0	1	15
	0300		992.0		996.2	85.9	80.1	77.6	32.5		77		4.4		2	1	3	1	14	0	0	0	10
	1200		989.5		993.7	96.6	82.5	76.5	31.5		55		4.3		2	1	1	5	14	1	0	2	5
Sukkur	0300	221	988.1	—0.8	995.5	88.0	80.7	75.5	32.4	+1.0	71	—4	3.9	+2.2	1	5	1	3	9	7	0	0	5
	1200		984.7		991.9	100.4	83.2	76.1	30.9		49		4.5		2	6	1	3	10	7	0	2	0
Kashmore	0000	225	*		*	85.4	76.3	72.6	26.9		67		1.8		0	0	0	0	0	0	0	0	31
	0300		987.0		995.6	89.2	79.9	75.6	30.6		66	—	1.5	—	0	2	0	0	0	0	0	0	29
	1200		984.0		992.2	107.1	82.8	71.9	27.2		34		2.5		3	6	1	0	2	0	2	0	17
Jacobabad	0000	183	988.1		994.3	86.7	79.7	77.1	31.5		74		2.6		4	4	3	5	8	0	2	2	3
	0300		939.4	—0.6	995.6	89.0	80.4	76.8	31.5	—1.6	68	0	3.2	+1.7	2	5	3	13	3	2	0	1	2
	1200		986.1		991.9	101.2	82.1	73.8	28.8		45		4.1		2	5	0	10	7	5	0	2	0
JUNAGADH																							
Veraval	0000	26																					
	0300		(i) 992.4		(i) 993.4	(h) 81.6	x	x	x		x		(h) 5.5		(h) 0	1	0	0	0	9	8	3	2
	1200		x		x	x	x	x	x		x		x		x	x	x	x	x	x	x	x	x
ARABIA																							
Muscat (x)	0300	20																					
	1200																						
HILL STATIONS: KASHMIR																							
Srinagar (x)	0000																						
	0300																						
	1200																						

(x) Data not available. (h) Mean for 23 days. (*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb	Mb.	%	%	okta:										
KASHMIR—contd.																							
Gulmarg (x)	0300	—																					
	1200																						
Gurez (x)	0300	—																					
	1200																						
Sonemarg (x)	0300	—																					
	1200																						
Dras (x)	0300	—																					
	1200																						
Kargil (x)	0300	—																					
	1200																						
Leh (x)	0000	—																					
	0300																						
	1200																						
Skardu (x)	0000	7250																					
	0300																						
	1200																						
Misgar	0000	10190	(x)		(x)	(x)	(x)	(x)	(x)		—		—		—	—	—	—	—	—	—	—	—
	0300		698.0	...	3079.2	63.2	50.0	38.4	8.2	—	42	—	2.1	—	0	1	3	1	0	0	5	1	20
	1200		695.0		3040.9	76.1	54.6	37.5	7.9		25		2.6		0	3	8	5	0	1	10	2	2
Aliabad (x)	0300																						
	1200																						
Gilgit (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	779.3		1421.9	63.5	61.5	60.0	17.9		89		5.8		0	2	0	11	0	2	0	9	7
	0300		779.8	—0.5	1423.9	65.4	62.6	61.1	18.4	+1.2	86	+8	6.4	+2.3	1	0	3	6	2	1	7	3	8
	1200		778.7		1406.1	70.1	66.0	64.0	20.3		81		6.6		0	1	4	6	2	2	3	8	5
PESHAWAR																							
Drosh	0000	4806	844.5		1407.3	77.7	66.6	59.3	17.8		55		3.6		1	0	1	0	0	14	0	0	15
	0300		845.3	—2.0	1414.6	81.8	69.0	61.3	19.0	+1.5	50	—6	3.2	+1.8	1	0	1	0	0	5	0	0	24
	1200		840.6		1363.5	95.3	71.0	56.7	16.2		28		3.0		0	0	0	0	0	28	1	0	2
Cherat	0000	4272	859.7		1399.1	73.4	70.1	68.4	23.8		84		3.6		0	0	0	1	3	7	2	0	18
	0300		860.8	—1.1	1410.8	74.9	71.1	69.0	24.4	+3.8	83	+11	3.6	+0.5	1	0	0	5	8	5	0	0	12
	1200		859.2		1396.1	83.5	74.3	70.2	25.2		65		3.3		1	0	0	7	9	8	0	1	5
Kakul	0000	4214	862.7		1411.4	72.6	68.6	67.0	22.3		81		5.2		5	7	4	3	5	2	1	4	0
	0300		863.6	...	1420.6	75.9	70.7	68.3	23.6	—	78	—	5.0	—	0	1	1	4	4	7	5	8	1
	1200		861.4		1402.3	82.4	72.9	68.4	23.8		62		4.8		1	3	0	4	7	9	2	5	0
Balakot	0000	3226	(x)		(x)	74.1	*	*	—		—		4.8		x	x	x	x	x	x	x	x	x
	0300		(x)	—	(x)	76.6	*	*	—	—	—	—	4.4	—	x	x	x	x	x	x	x	x	x
	1200		(x)		(x)	85.6	*	*	—		—		4.5		x	x	x	x	x	x	x	x	x
Landikotal	0000	3503	881.8		1386.5	76.9	70.0	67.5	21.9		73		2.5		0	0	0	2	0	6	0	1	22
	0300		883.3	...	1406.5	81.7	73.1	69.0	23.9	—	66	—	2.5	...	0	0	0	6	0	7	0	3	15
	1200		880.6		1382.2	90.6	76.0	69.5	24.0		51		3.1		0	0	0	13	0	14	0	2	2

(x) Data not available (*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Cpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Direction Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
PESHAWAR—contd.																							
Parachinar	0000	5673	*		*	*	*	—	—		—		1.0		0	0	1	0	0	0	0	0	30
	0300		*	...	*	*	*	—	—	—	—	—	1.7	—0.8	0	0	0	0	0	0	0	0	30
	1200		*		*	*	*	—	—		—		3.5		1	0	5	6	3	0	0	1	15
D. I KHAN																							
Miranshah	0000	3026	(a) 897.2		(a) 1391.8	79.3	70.3	65.1	21.7		63		1.2		0	3	0	0	0	0	0	0	28
	0300		898.5	...	1410.7	84.7	(c) 74.5	(c) 71.7	25.0	+1.9	62	+3	2.3	+0.1	0	4	0	0	0	0	0	0	27
	1200		(b) 896.3		(b) 1391.6	87.8	(d) 74.9	(d) 69.3	24.2		53		3.1		0	21	0	0	0	0	0	1	9
Wana	0300	4503	*	...	*	80.5	71.4	66.7	22.6	+3.0	64	+2	2.2	+0.7	0	0	0	4	0	0	0	0	27
	1200		*		*	85.9	73.7	68.0	23.4		56		5.0		0	5	0	12	0	1	0	0	13
QUETTA																							
Fort Sandeman (P.T.)	0300	4614	851.5	+0.4	1420.4	80.1	72.5	68.7	24.1	+4.8	70	+9	1.6	+0.2	3	6	4	1	0	2	3	1	11
	1200		848.8		1392.0	91.1	72.1	61.0	19.2		43		4.2		3	4	8	6	4	2	1	2	1
,, (P.B.O.)	0000	4615	850.5		1410.3	76.3	70.8	68.0	23.5	—	76	—	2.0	—	0	12	0	1	0	2	0	0	16
	0300		851.4		1419.0	80.8	71.8	67.3	22.9		64		1.8		2	7	1	2	1	1	3	0	14
	1200		848.6		1391.0	91.4	72.0	61.7	18.9		40		4.2		2	6	7	5	0	1	6	0	4
Hindubagh	0000	5909	812.7		1405.2	72.3	63.4	58.7	16.8	—	63	—	0.0	—	0	0	0	1	0	1	3	0	26
	0300		813.0		1402.5	77.5	67.6	62.6	19.5		61		1.5		0	1	4	0	0	2	4	0	20
	1200		809.6		1359.7	92.2	71.8	62.1	19.4		39		3.3		1	0	6	1	0	4	10	1	8
Loralai	0000	4699	846.2		1391.1	71.5	68.2	67.4	22.3	—	85	—	2.2	—	0	0	0	0	0	0	6	0	25
	0300		847.4		1398.9	78.5	72.0	67.8	24.1		70		2.8		1	1	3	0	0	1	2	2	21
	1200		844.7		1373.8	87.0	78.9	74.4	30.4		56		4.7		0	2	1	13	7	7	1	0	0
Harnai	0300												2.7	—	0	0	1	0	0	0	30	0	0
	1200												2.9		1	0	27	0	0	0	3	0	0
Quetta (Samungli)	0000	5213	831.8		1398.9	72.2	63.3	57.9	16.7		62		1.8		0	0	9	16	2	0	0	0	4
	0300		832.7	—	1406.7	77.7	66.2	59.8	17.9	—	55	—	1.5	—	0	0	8	10	0	0	1	2	10
	1200		829.9		1371.6	93.3	64.3	41.8	10.1		22		3.1		1	0	2	5	3	2	8	10	0

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY 1961

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directons Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
QUETTA—contd.																							
Quetta (P.T)	0300	5490	824.6	—1.4	1404.8	77.1	67.8	63.4	19.9	+1.8	63	+2	1.6	+0.5	0	0	0	1	6	1	0	2	21
	1200		822.7		1377.0	91.8	77.2	71.7	26.6		54		2.8		0	2	1	2	2	4	2	5	15
,, (P.B.O.)	0000	5560	822.9		1447.4	71.6	63.9	59.1	17.5		66		0.9		0	0	0	1	0	3	0	0	27
	0300		823.0	—	1444.5	79.7	67.5	60.4	18.6	—	55	—	1.2	—	2	1	3	7	0	3	0	2	13
	1200		821.0		1412.7	92.3	67.8	52.3	14.3		31		3.2		0	0	0	2	0	9	1	5	14
Chaman	0000	4311	857.1		1393.0	80.1	61.6	44.1	11.3		33		1.7		0	1	10	6	1	4	3	0	6
	0300		858.8	—0.9	1406.0	86.4	63.8	44.2	11.0	—1.9	26	—7	1.1	+0.4	0	2	3	10	2	7	1	5	1
	1200		855.6		1370.9	99.5	67.5	39.6	10.0		18		1.9		0	0	2	4	3	8	8	6	0
Nushki	0000	3416	*		*	84.1	65.2	52.1	13.5		33		0.9		0	0	14	3	2	0	0	0	12
	0300		889.0		1440.2	90.4	69.7	56.1	16.4	—	35	—	1.0		0	0	19	3	0	1	0	1	7
	1200		886.8		1426.6	104.7	77.1	63.3	20.4		29		1.8		0	0	1	4	3	1	18	3	1
Dalbandin	0000	2788	903.4		1382.5	82.3	66.4	56.2	15.6		42		1.2		3	3	1	2	2	5	7	1	7
	0300		904.7	—1.1	1400.1	87.3	68.5	56.4	16.1	+3.4	38	+5	1.6	+0.6	0	2	0	6	1	7	4	3	8
	1200		901.6		1387.3	105.8	76.1	60.5	18.6		26		2.0		1	0	2	5	5	15	2	1	0
KALAT																							
Kala	0000	6616	789.4		1360.4	64.5	49.4	32.6	6.5		31		0.7		0	2	3	3	14	4	2	3	0
	0300		790.2	—3.7	1375.4	75.5	59.8	48.5	14.7	+2.4	39	—8	0.5	—1.1	3	1	5	2	9	7	0	4	0
	1200		788.5		1342.8	85.7	69.9	62.2	19.1		47		1.9		4	1	1	4	4	3	4	10	0
Panjgur	0000	3177	893.4		1401.5	79.0	69.8	63.9	21.4		65		2.4		3	2	2	0	3	9	2	2	8
	0300		894.2	—0.3	1411.3	81.2	71.0	64.7	22.0	—1.0	62	—3	2.2	+0.4	2	1	1	0	1	9	0	2	15
	1200		892.0		1402.2	96.7	69.9	49.3	13.8		30		2.8		5	1	1	2	1	7	3	11	0
AFGHANISTAN																							
Kabul	0300	5955	(x)	—	(x)	69.6	*	—	—	—	—	—	0.3	—0.3	1	6	0	17	0	2	0	5	0
	1200		(x)		(x)	83.5	*	—	—		—		0.7		0	4	0	4	0	3	0	20	0
Kandahar	0300	3462	888.0	—	1434.9	77.4	69.2	64.7	21.1	—	65	—	0.9	—	0	1	0	3	0	0	0	0	27
	1200		884.7		1415.0	95.6	78.6	70.5	26.5		46		1.0		2	0	0	0	0	2	0	0	27

(x) Data not available. (*) Data rejected.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JULY, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
CHITTAGONG																					
Rangamati	87.9		93	1,2,21	77.1		74	4,26	33.73		8.76	14	19		x		8	0	0	0	0
Cox's Bazar (P. T.)	84.0	—1.3	89	2,25	76.0	—0.4	73	16,17	61.27	+25.75	8.87	15	27	+4.0	x		4	0	0	0	0
Chittagong (Patenga)	86.0		92	2	77.2		74	16	45.96		7.15	26	23		x		3	0	0	0	0
Chittagong (P.T.)	85.1	—0.9	91	2	76.7	0.0	74	16	40.85	+17.32	5.64	14	22	+3.1	x		3	0	0	0	0
Maijdi Court	86.3	+0.5	91	25	77.6	—0.6	74	14	26.08	+2[illegible]2	2.60	7	22	—1.0	x		0	0	0	0	0
Comilla	88.6	+0.9	94	25	77.8	+0.7	73	5,11	15.04	—1.38	5.35	15	16	—2.8	x		1	0	0	0	0
Brahmanbaria	88.6	—0.9	94	3	78.6	+2.8	75	25	11.31	0.0	2.22	15	15	—1.6	4.7		2	0	0	0	0
Sylhet (P.B.O.)	89.4		96	4,21	77.5		74	25	19.55		2.44	29	25		x		4	0	0	0	0
Srimangal	90.3	0.0	95	21	77.3	+0.9	75	19	8.51	—5.40	1.72	3	12	—8.8	4.5	+1.3	0	0	0	0	0
DACCA																					
Mymensingh	88.8	+0.9	96	15	78.4	+0.1	76	6	10.29	—5.73	1.88	13	14	—5.2	x		5	0	0	0	0
Narayanganj	88.3	+0.1	93	25	79.5	+0.6	76	15	13.48	+0.51	4.56	15	17	—0.7	4.9	+0.5	2	0	0	0	0
Dacca (Tejgaon)	87.7		93	2	79.1		77	6 days	11.07		4.37	15	17		7.7		2	0	0	0	0
Faridpur	88.3	+0.5	93	25	78.3	—0.2	76	5 days	16.40	—3.66	2.86	8,16	15	—2.8	2.3	—3.0	1	0	0	0	0
KHULNA																					
Barisal	85.5	+1.2	94	25	79.3	+0.9	74	6	9.74	—6.58	3.24	8	12	—9.1	x		0	0	0	0	0
Khulna	88.4	+0.5	92	4 days	79.3	+0.7	77	5 days	5.62	—8.82	1.30	15	11	—10.1	2.9	—0.8	0	0	0	0	0
Satkhira	89.0	+0.5	93	25,28,31	78.9	+0.5	76	17	4.87	—8.63	0.84	15	13	—5.4	1.5	—0.9	0	0	0	0	0
Jessore (P.T.)	88.1	0.0	91	25,28,30	78.6	+0.6	76	16,17	7.77	—4.45	1.56	12	16	—1.7	3.3	+0.7	0	0	0	0	0
RAJSHAHI																					
Pabna	88.7	—1.0	92	4 days	79.4	+3.0	77	17	5.06	—6.03	1.80	15	9	—7.6	x		9	0	0	0	0
Ishurdi	88.0		93	28	78.3		73	5	5.45		1.07	15	12		x	—	4	0	0	0	0
Sirajganj	80.9		104	21	78.5		76	7,9,15	5.17	—6.61	1.04	15	13	—3.1	2.9		3	0	0	0	0
Bogra (P.B.O.)	89.9	+0.7	94	25,28	79.4	+0.9	77	7,9	5.94	—6.89	1.61	12	7	—9.8	2.5	+0.5	1	0	0	0	0
Dinajpur	90.1	+0.9	95	3	79.9	+1.0	77	15	5.92	—9.55	2.31	14	9	—7.7	x		2	0	0	0	0
Rangpur	90.3		95	21	79.4		76	14	10.41	—5.60	5.53	14	10	—5.0	2.8		1	0	0	0	0

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JULY, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR																					
Jammu (x)																					
LAHORE																					
Lahore (P.B.O.)	97.5	—2.1	105	8,15	81.3	+1.2	73	31	8.16	+2.71	2.63	31	6	+0.1	2.9	+0.7	14	0	0	0	2
,, (Cantt.)	96.9	—	104	4 days	80.4	—	73	31	10.59	—	4.64	31	9	—	5.1	—	14	0	0	0	1
Sialkot	96.5	—0.9	106	14	79.8	+0.2	73	2	24.47	+16.12	10.12	31	11	+2.0	3.2	+1.3	0	0	0	0	0
RAWALPINDI																					
Jhelum	95.6	—	105	14,15	78.8	—	72	9	12.72	—	2.12	26	15	—	2.7	—	16	1	0	0	0
Chaklala	94.4	—	105	15	76.6	—	70	11,18,25	9.71	—	2.03	18	14	—	5.1	—	21	0	0	0	0
Rawalpindi	94.6	—3.2	105	15	77.0	—0.1	69	11	10.18	+2.11	2.55	27	12	+3.2	2.8	+1.1	16	0	0	0	1
Campbellpur	98.4	—	111	15	78.9	—	71	23	7.00	—	1.40	26	13	—	(f) 1.6	—	0	0	0	0	0
SARGODHA																					
Khushab	101.3	—0.9	109	6,15	81.8	—0.6	74	10,11	2.93	—0.97	1.98	11	5	+0.7	4.8	—0.5	0	0	0	0	0
Sargodha	100.6	—	110	14	82.9	—	77	10,30	0.86	—	0.28	12	4	—	7.2	—	12	0	0	0	3
Mianwali (R																					
Lyallpur	99.3	—2.2	107	4 days	(a) 83.5	+0.8	78	27,30,31	0.42	—2.44	0.32	19	2	—1.8	(a) 3.2	+0.4	3	0	0	0	2
MULTAN																					
Montgomery	101.2	—1.7	111	8	82.8	—0.9	73	18	5.84	+3.42	2.73	18	5	+1.7	(x)	—	8	0	0	0	2
Multan (P.B.O.)	103.4	—	111	8	84.5	—	76	11	1.82	—	0.59	27	6	—	5.0	—	11	0	0	0	3
,, (Surface)	103.3	+0.9	111	5	85.1	—0.4	75	11	3.18	+1.17	1.15	27	6	+3.7	(x)	—	9	0	0	0	6
Leiah	106.5	—	114	9	70.7	—	60	17	4.03	—	29.0	27	2	—	(x)	—	1	0	0	0	2
BAHAWALPUR																					
Khanpur (P.B.O.)	103.2	—	111	5	82.8	—	76	27	4.43	—	1.61	27	6	—	6.1	—	7	0	0	0	1
Bahawalpur	100.2	—3.1	110	5,8	84.6	+0.9	78	27	1.83	—0.61	0.85	18	4	+0.8	4.9	+0.4	0	0	0	0	2
Fort Abbas	103.7	—	110	4,5	83.9	—	81	18,26	1.16	—	0.53	18,22	3	—	4.5	—	0	0	0	0	0
PESHAWAR																					
Chakdara	95.9	—	106	2	75.6	—	68	24	7.95	—	1.60	11	11	—	(x)	—	4	0	0	0	0
Peshawar	99.8	—2.7	111	10	81.6	+1.4	73	30	1.86	+0.60	0.96	26	3	+1.0	3.2	+1.2	11	0	0	0	1
Risalpur	100.7	—	114	16	80.7	—	72	31	5.97	—	1.60	17	7	—	5.3	—	14	0	0	0	3
Haripur	94.1	—	106	16	76.2	—	70	11	9.54	—	2.41	25	9	—	3.6	—	2	0	0	0	0
Kohat (P.A.F.)	99.1	—	110	15	81.5	—	73	4 days	2.90	—	1.25	30	9	—	4.5	—	16	0	0	0	0
D. I. KHAN																					
Bannu	100.5	—2.6	109	15	82.6	+0.1	73	27	5.53	+3.32	2.35	18	6	+2.8	1.8	—	4	0	0	0	0
D. I. Khan	101.9	—1.4	111	6,7,9	82.4	—0.3	72	17	5.65	+3.36	3.42	17	3	+0.2	1.9	+0.1	0	0	0	0	1
AFGHANISTAN																					
Jalalabad(x)...																					

(R) Register not received. (a) Mean for 30 days (f) Mean of 25 days. (x) Data not available.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JULY, 1961.

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
QUETTA																					
Sibi	107.8	0.0	117	5	87.7	+0.5	75	17	4.26	+2.86	1.76	17	5	+2.4	.4	—0.8	1	0	0	0	1
KALAT																					
Nokkundi	109.7	+0.3	117	14	85.1	+1.5	77	25	0.09	+0.09	0.09	24	0	0.0	(x)	—	0	0	0	0	0
Turbat	107.9		120	4	x	—	x	—	3.77	—	1.10	21	6	—	(x)	—	0	0	0	0	0
Jiwani	92.0		97	22	82.0	—	77	23,25	0.33	—	0.13	23	2	—	8.2	—	2	0	0	0	0
Pasni	92.3	+1.1	95	2,3,19	x	—	x	—	1.85	+1.38	0.68	23	4	+3.4	(b) 8.0	+2.2	5	0	0	0	0
KARACHI FEDERAL TERRITORY																					
Ormara	92.6	+2.4	102		81.7	+0.5	78	20	2.71	+2.06	1.15	20	7	+5.7	7.5	—1.1	0	0	0	0	0
Lasbela	103.7	+2.9	112	4,5,6	80.3	—0.4	78	days	(x)	—	x	—	x	—	(x)		5	0	0	0	2
Karachi (Manora)	90.7	+2.2	98	3	79.5	—1.6	73	19	3.50	+0.30	0.97	19	8	+5.5	(x)	—	11	0	0	0	0
Karachi (Mauripur)	91.0	—	99	3,4	81.9	—	77	24	7.35	—	2.17	20	9	—	8.3	—	13	0	0	0	0
Karachi (City)	91.7	—	102	3	81.0	—	75	24	8.45	—	2.02	20	12	—	5.7	—	11	0	0	0	0
Karachi (Airport)	92.4	—	103	3	81.3	—	75	24	6.62	—	1.38	19,20	9	—	8.7	—	11	0	0	0	1
Gadap	91.6	—	104	4	78.0	—	71	28,31	5.80	—	1.60	26	8	—	(x)	—	0	0	0	0	0
HYDERABAD																					
Mithi	94.1	—	106	3	80.6	—	77	28	4.91	—	1.68	19	8	—	1.7	—	4	0	0	0	0
Nagarparkar	90.9	—	102	4	x	—	x	—	6.82	—	2.05	29	11	—	x	—	4	0	0	0	0
Umerkot	95.8	—	105	2,3	80.6	—	75	26	5.98	—	1.66	22	7	—	x	—	4	0	0	0	0
Chhor	94.4	—	104	2	80.8	—	74	26	10.52	—	3.42	25	9	—	4.5	—	11	0	0	0	0
Hyderabad	97.2	—2.1	109	3	82.3	+0.9	77	17,19	4.90	+1.92	1.28	27	9	+6.1	6.4	—2.9	4	0	0	0	0
Badin	95.7	+0.8	107	3	79.9	—1.3	77	4,5,21	7.67	+3.70	1.70	7	9	+5.2	x	—	4	0	0	0	0
KHAIRPUR																					
Padidan	102.7	—	111	4	80.2	—	77	26,27	6.95	—	1.41	27	9	—	7.0	—	1	0	0	0	0
Nawabshah	101.1	—	108	3	81.7	—	77	5	3.57	—	0.90	19	7	—	5.2	—	12	0	0	0	0
Sukkur	104.5	+0.2	112	5	83.5	+0.5	77	17	0.72	—0.72	0.20	23	5	+3.3	x	—	5	0	0	0	0
Kashmore	108.2	—	113	12,13	83.6	—	79	18,26	0.77	—	0.33	21	3	—	x	—	7	0	0	0	0
Jacobabad	104.9	—3.1	113	5	(a) 85.2	+0.2	79	26,27	2.58	+1.63	1.07	24	6	+4.5	9.1	+2.6	8	0	0	0	2
JUNAGADH																					
Veraval (x)	(x)		(x)		(x)		(x)		(h) 3.62		(x)				(x)	—	0	0	0	0	0
ARABIA																					
Muscat																					
HILL STATIONS																					
KASHMIR																					
Srinagar (x)																					
Gulmarg (x)																					
Gurez (x)																					
Sonamarg (x)																					
Dras (x)																					
Kargil (x)																					
Leh (x)																					
Skardu (x)																					

(x) Data not available. (b) Mean for 29 days. (h) Mean for 23 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JULY, 1961.

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR—(*continued*)																					
Misgar	79.5	—	89	30,31	56.3	—	49	19	0.39	—	0.15	18	1	—	2.6	—	0	0	0	1	0
Aliabad (x)																					
Gilgit (x)																					
RAWALPINDI																					
Murree	73.2	—3.0	81	9	60.3	+1.4	55	1	12.11	—0.29	1.76	18	15	+1.7	4.5	+0.8	12	0	19	0	0
PESHAWAR																					
Drosh	99.0	+2.3	111	14	76.7	+3.2	67	11	0.86	+0.26	0.66	16	2	+0.5	5.2	+0.8	7	0	0	0	0
Cherat	87.4	—2.3	100	9,15	70.5	—1.2	61	30	6.03	+2.39	1.31	26	10	+5.2	1.9	—3.1	10	0	5	0	0
Kakul	86.0	—	94	18	70.9	—	64	4	10.04	—	1.30	24	14	—	(x)	—	20	0	0	0	0
Balakot	89.7	—	97	15	72.5	—	67	1	14.19	—	2.96	16	16	—	(x)	—	0	0	0	0	0
Landikotal	94.6	—	106	9	74.8	—	68	30,31	1.21	—	0.42	26	3	—	(x)	—	0	0	0	0	0
Parachinar	85.6	—1.5	94	15	66.8	+0.4	61	3,24	11.40	+7.88	2.02	17	12	+5.1	2.5	+0.3	0	0	0	0	0
D. I. KHAN																					
Miransahah	96.3	—0.3	105	15	78.6	—0.5	68	18,20	1.58	+0.01	0.41	24	4	+0.7	(x)	—	0	0	0	0	0
Wana	92.6	+0.8	102	9,10	72.8	+1.5	69	4 days	1.90	+0.17	1.00	22	4	0.0	1.7	—	0	0	0	0	0
AFGHANISTAN																					
Kabul	89.9	—2.1	97	14,15	59.8	—0.8	51	13	0.06	—0.01	0.06	20	0	—0.3	(x)	—	2	0	0	0	0
Kandahar	99.1	—	104	14	72.3	—	65	3	0.00	—	0.00	—	0	—	0.2	—	2	0	0	0	0
QUETTA																					
Fort Sandeman (P.T.)	97.7	—1.6	106	15	75.7	+0.6	70	24,27	2.69	+0.55	0.81	23	7	+3.2		—	19	0	0	0	0
" " (P.B.O.)	96.6	—	107	9	75.5	—	70	24,27	2.12	—	0.70	23	6	—	3.5	—	19	0	0	0	0
Hindubagh	92.9	—	103	14	*	—	*	—	0.06	—	0.06	24	0	—	2.5	—	0	0	0	0	0
Loralai	94.1	—	103	9	67.8	—	64	1	1.79	+0.25	0.52	22	8	+5.1	2.4	—	0	0	0	0	0
Harnai	—								12.75	+9.65	2.07	24	13	+8.0		—	0	0	0	0	0
Quetta (Samungli)	96.8	—	103	15	(a) 66.5	—	60	9	0.43	—	0.30	27	1	—	6.9	—	7	0	0	0	2
" (P.T.)	94.9	—	100	15,16,17	68.1	—	62	9	1.14	—	0.65	27	2	—	4.2	+1.8	4	0	0	0	0
" (P.B.O.)	96.6	—	102	15,16	70.6	—	65	21	1.36	—	0.73	27	3	—	3.8	—	4	0	0	0	0
Chaman	101.2	+0.1	106	14,15,16	78.0	+1.7	75	20,21,23	0.85	+0.78	0.60	20	2	+1.8	(x)	—	0	0	0	0	0
Nushki	108.3	—	114	9	83.1	—	73	28	1.07	—	0.94	7	1	—	(x)	—	0	0	0	0	0
Dalbandin	108.4	—0.3	115	14	80.7	+4.5	73	4	1.15	+1.03	0.80	25	3	+2.6	4.8	+0.1	6	1	0	3	0
KALAT																					
Kalat	90.0	—1.1	97	14	63.8	+1.6	61	6 days	0.44	—0.16	0.44	26	1	—0.5	x	—	0	0	0	0	0
Panjgur	100.3	—3.0	109	16	76.9	+0.6	71	22	2.95	+2.16	1.10	22	4	+2.7	x	—	0	0	0	0	0

(x) Data not available.

(a) Mean for 30 days.

REGD. No. S. - 1452

PAKISTAN WEATHER REVIEW, 1961

MONTHLY WEATHER REPORT

August

(PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN)

Chief Features:

1. Pronounced monsoon activity in East Pakistan during the first ten days of the month and again between the 21st and the 25th.

2. Locally moderate to heavy rainfall in the southern divisions of West Pakistan under the influence of a land depression towards the later part of the fourth week.

East Pakistan

Monsoon was active and caused fairly widespread rain with locally heavy falls in the province during the first ten days of the month. Thereafter, it weakened and caused rainfall locally in most parts of the province till the 20th. Thereafter two low pressure waves moved from the Far East and gradually strengthened the monsoon towards the beginning of the fourth week and caused fairly widespread rainfall in the province between the 21st and the 25th. The recurrence of heavy rain caused five rivers in the province to cross danger level according to Newspaper reports. The situation however came under control on weakening the monsoon during the rest of the month when rain fell locally or at a few places in the province outside Chittagong Division where rainfall was fairly widespread on some days.

Noteworthy amounts of rainfall were:—Cox's Bazar 5″ on the 1st; Chittagong 5″ on the 2nd; Chittagong 5″ and Rangamati and Narayanganj 3″ each on the 3rd; Cox's Bazar 8″, Chittagong 7″ and Dacca and Rangamati 4″ each on the 4th; Faridpur and Jessore 6″ each, Cox's Bazar 5″, Khulna and Chittagong 3″ each on the 5th; Maijdee Court 3″ on the 8th, Bogra 5″ on the 10th and 3″ on the 23rd; Rangamati 4″ and Khulna 3″ on the 24th; Maijdee Court 3″ on the 25th; Srimangal 4″ on the 30th and Maijdee Court 4″ on the 31st.

The total rainfall during the month was in slight defects in Rajshahi and Dacca Divisions, in slight excess in Khulna Division and in moderate excess elsewhere. Averaged over the province it was in slight excess.

The mean maximum temperature was normal over the whole region. The mean minimum temperature was above normal in Rajshahi Division and normal over the rest of the region.

The mean relative humidity and the mean cloud amount were normal over the region.

West Pakistan

The weather during the first week was influenced by the passage of three westerly low pressure waves and two western disturbances. They caused widespread rain in Lahore Division on the 1st, fairly widespread in Rawalpindi division on the 3rd, in Sargodha Division on the 5th and mainly scattered to local rainfall elsewhere in the northern divisions between the 1st and the 5th. Scattered rain also fell in Sargodha and Rawalpindi Divisions during the subsequent two days. As a result the serious flood situation which developed due to heavy rain at the end of the previous month persisted during the first week.

Three westerly low pressure waves, which moved across the northern divisions during the earlier part of the second week, caused fairly widespread rain or thundershowers with moderate to heavy falls at a few places in Peshawar and Lahore Divisions and local in Rawalpindi division on the 10th and the 11th, scattered showers were also received in Peshawar and Quetta Divisions the 12th, in Rawalpindi between 12th and 14th and in Lahore Division between 13th and 14th.

Under the combined influence of three more westerly low pressure waves across the northern parts of West Pakistan and an easterly low which moved across Madhya Pradesh to Uttar Pradesh, fairly widespread rainfall occurred in Lahore, Rawalpindi, Peshawar and Sargodha Divisions and scattered rainfall in Multan and Quetta Divisions between the 16th and the 17th, scattered light showers were also recorded in Peshawar and Rawalpindi Divisions on the 15th and in Peshawar and Quetta divisions and Karachi Federal Territory on the 18th. Thereafter the weather was generally dry except in Lahore division where widespread rain fell on 21st, mainly scattered thunder rain activity continued there and in Peshawar and Rawalpindi Divisions during the rest of the third week. In the fourth week two lows approached from the east simultaneously. The first one filled up over Rajasthan while the other intensified into a depression and lay with its Centre about 70 miles to the west of Kotah on the 26th morning. It moved initially westwards and then westsouthwestwards and emerged into the north Arabian Sea on the evening of 27th. It however, weakened rapidly and became unimportant by the 30th due to a sudden weakening of the Arabian Sea Branch of monsoon current. Under the combined influence of these disturbances fairly widespread rain fell in Multan Division on the 22nd and the 23rd in Lahore, Rawalpindi, Peshawar, Multan and Sargodha Divisions on the 24th, in Hyderabad division on the 26th and 27th and in Kalat division on the 29th. Mainly scattered to local rainfall occurred in the province on other days.

As a result of heavy rainfall in Hyderabad between the 26th and the 27th some loss of life and considerable damage to property occurred in Hyderabad division and Karachi Federal Territory according to News paper reports.

Noteworthy amounts of rainfall recorded were:—Leiah 3″ on the 5th; Murree and Kakul 2″ each on the 10th; Landikotal 2″ on the 11th; Kakul 3″ on the 16th; Badin 6″, Lyallpur 3″ each on the 27th, Khanpur 2″ on the 28th and Murree 5″ and Haripur 2″ on the 31st.

The total rainfall during the month was in large excess in Hyderabad division in moderate excess in Sargodha and Kalat Divisions and the Karachi Federal Territory and normal in Lahore and Quetta divisions. It was in slight defect in Rawalpindi and Peshawar divisions, in moderate defect in Multan division and in large defect elsewhere. Averaged over the region as a whole it was normal.

The mean maximum temperature was below normal in Lahore division, above normal in the Karachi Federal Territory and normal over the rest of the region. The mean minimum temperature was normal over the region outside the Karachi Federal Territory where it was above it.

The mean relative humidity was in excess in Lahore and Hyderabad divisions and normal elsewhere.

The mean cloud amount was in excess in Lahore, Rawalpindi and Multan divisions in defect in Sargodha, D. I. Khan and Kalat Divisions and normal over the rest of the region.

Table I contains the divisional means of rainfall, temperature, relative humidity and the cloud amount for 16 divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

TABLE I.—DIVISIONAL MEANS FOR AUGUST 1961.

Division	PRECIPITATION				DEPARTURE FROM NORMAL OF				
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	0300 hrs. G. M. T.		
							Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb	%	
EAST PAKISTAN									
Chittagong	28.30	21.29	+7.01	+33	—0.1	+0.9	+1.4	+2	+0.4
Dacca	11.73	13.63	—2.40	—18	+0.6	+0.9	+0.3	—2	+0.2
Khulna	14.64	12.83	+1.81	+14	+0.6	+0.9	+1.3	—1	+0.1
Rajshahi	10.55	12.45	—1.90	—15	+0.5	+2.0	+1.5	0	—0.2
Mean	17.20	15.51	+1.69	+11	+0.4	+1.2	+1.1	0	+0.1
WEST PAKISTAN									
Kashmir (x)									
Lahore	4.97	5.15	—0.18	—3	—2.9	+1.4	+2.3	+6	+1.1
Rawalpindi	10.21	11.49	—1.28	—11	+0.1	+1.6	+0.9	+1	+0.9
Sargodha	4.88	3.55	+1.33	+37	—0.7	—0.2	+1.6	+4	—0.7
Multan	1.75	2.36	—0.61	—26	—0.1	+0.3	—0.1	—1	+0.5
Bahawalpur	0.21	1.33	—1.12	—84	+0.1	+1.7	*	*	—0.1
Peshawar	2.39	2.83	—0.44	—16	+0.4	+0.6	+1.5	+1	—0.3
D. I. Khan	0.53	1.49	—0.96	—64	+0.8	+1.1	+2.2	+2	—0.4
Quetta	1.13	1.02	+0.04	+4	+0.7	+1.9	+0.8	+1	0.0
Kalat	0.29	0.21	+0.08	+38	+0.7	+1.1	+0.5	—3	—0.6
Karachi Federal Territory	1.05	0.83	+0.22	+27	+4.7	+2.1	+2.3	—5	—0.3
Hyderabad	5.30	2.17	+3.13	+144	+1.3	+0.9	+4.3	+7	—0.7
Khairpur	0.41	1.00	—0.59	—59	—1.1	+1.9	+1.7	+1	+2.1
Mean	2.09	1.91	+0.18	+9	+0.5	+1.2	+1.3	+1	—0.1
Junagad (x)									

(x) Data not available. (*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
EAST PAKISTAN	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
CHITTAGONG																							
Rangamati	0000	208	996.0		1003.1	78.0	76.6	75.8	30.7		93		5.8		1	0	0	2	25	2	1	0	0
	0300		997.1		1004.2	83.3	79.2	77.5	32.2		83		5.5		1	1	0	2	26	1	0	0	0
	1200		993.8		1000.9	82.3	79.2	77.9	32.6		88		6.5		0	0	0	1	23	6	1	0	0
Cox's Bazar (P.T.)	0000	38																					
	0300		1001.7	—1.2	1003.1	81.3	78.7	77.7	32.3	+0.6	89	+1	5.8	—0.4	0	0	1	9	14	6	1	0	0
	1200		999.2		1000.5	80.5	78.4	77.6	32.2		91		5.8		0	0	0	5	15	8	3	0	0
Chittagong (Patenga)	0000	20	1001.2		1001.9	78.0	77.2	77.0	31.6		96		7.2		0	0	4	18	3	2	1	0	3
	0300		1002.3		1003.0	82.1	78.9	77.5	32.3		86		6.6		0	1	2	21	3	4	0	0	0
	1200		999.5		1000.2	82.4	79.7	78.5	33.4		88		7.2		0	0	0	8	14	7	1	1	0
Chittagong (P.T.)	0000	46																					
	0300		1001.5	—1.2	1003.1	82.1	78.3	76.8	31.3	0.0	84	—2	6.5	+0.2	0	0	0	21	6	3	1	0	0
	1200		998.6		1000.2	81.7	78.6	77.8	32.0		87		6.8		0	0	0	8	16	6	1	0	0
Maijdee Court	0000	25	1000.2		1001.1	79.4	78.0	77.5	31.5		93		7.3		0	0	0	9	10	0	0	0	12
	0300		1001.5	—1.2	1002.4	81.9 (a)	79.4 (a)	78.0 (a)	33.3 (a)	+0.7	88 (a)	+1	6.8 (a)	+1.4	0	0	0	11	8 (b)	0	0	0	12
	1200		998.6		999.4	82.6	79.0	77.5	32.8		85		6.1		0	0	0	10	12	2	0	0	6
Comilla (R)	0000	29																					
	0300																						
	1200																						
Brahmanbaria	0000	32	999.8		1000.9	(h) 80.0	(h) 78.7	(h) 78.6	(h) 32.9		(h) 95		5.2		0	0	0	24	6	0	0	0	1
	0300		1001.3		1002.4	83.5	81.0	80.0	35.0	+4.4	89	+9	5.8		0	0	0	19	12	0	0	0	0
	1200		998.0		999.1	84.6	82.2	81.4	35.8		90		6.0		0	0	0	13	12	1	1	0	4
Sylhet (P.B.O.)	0000	115	997.7		1001.6	78.5	77.5	77.1	31.8		96		7.0		2	1	3	7	2	0	1	2	13
	0300		998.8		1002.7	81.6	79.0	77.9	32.7		88		7.2		0	5	6	12	3	0	0	0	5
	1200		995.1		999.0	84.3	80.1	78.4	33.2		82		6.5		3	2	1	4	4	0	2	1	14
Srimangal (R)	0000	69																					
	0300																						
	1200																						
DACCA																							
Mymensingh	0000	62	999.0		1001.1	80.3	78.9	78.5	33.1		94		6.0		0	0	4	4	0	0	1	0	22
	0300		1000.6	—0.8	1002.7	83.7	80.1	78.6	33.4	+0.7	85	—2	6.0	—0.8	0	0	3	23	0	0	0	0	5
	1200		996.8		998.9	85.8	80.6	78.5	33.4		79		5.9		0	0	4	7	0	0	2	0	18
Jamalpur (R)	0000																						
	0300																						
	1200																						
Narayanganj	0000	26	999.7		1000.6	81.2	79.3	78.7	33.3		92		7.6		0	0	2	14	10	0	1	0	4
	0300		1000.8	—1.5	1001.7	84.4	80.0	78.2	33.0	+0.2	82	—4	7.2	+0.3	0	0	5	14	6	4	0	0	2
	1200		997.9		998.8	84.6	79.8	78.0	32.6		81		6.4		0	0	3	7	20	1	0	0	0

(R) Register not received. (a) Observation for 30 days. (b) Observation for 23 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
DACCA—contd.																							
Dacca (Tejgaon)	0000	32	999.0		1000.1	80.2	78.9	78.7	33.1		95		6.7		0	0	1	9	6	8	0	0	7
	0300		1000.3		1001.4	83.2	80.1	79.3	33.8		87		7.1		0	0	0	13	5	9	0	0	4
	1200		997.1		998.2	83.9	79.9	78.3	33.2		84		6.7		0	0	0	9	10	12	0	0	0
Faridpur	0000	46	998.3		999.9	81.0	79.6	79.1	33.9		93		6.5		0	0	2	12	11	1	0	0	5
	0300		999.7	—1.6	1001.3	83.8	80.1	78.9	33.3	0.0	87	+1	7.1	+1.1	0	0	2	14	12	1	1	0	1
	1200		997.0		998.6	83.9	80.5	78.8	32.3		84		5.9		0	0	2	12	13	3	0	0	1
KHULNA																							
Barisal	0000	11	1000.4		1000.8	80.7	79.3	78.8	33.6		94		5.4		0	0	0	2	2	0	0	0	27
	0300		1001.6	—0.9	1002.0	84.7	80.5	78.5	33.7	—0.9	84	—2	6.1	—0.1	0	0	0	8	1	0	0	0	22
	1200		998.1		998.5	84.1	80.3	78.3	33.6		84		5.3		0	0	0	3	7	1	0	0	20
Khulna	0000	16	999.6		1000.2	80.5	79.5	79.3	33.9		96		4.9		0	0	0	0	1	0	0	0	30
	0300		1000.8	—1.1	1001.4	83.9	80.7	79.5	34.2	+1.6	80	—4	5.8	—1.0	0	0	1	4	0	0	0	0	26
	1200		997.7		998.3	83.5	80.5	79.5	34.0		80		5.1		0	0	0	4	2	0	0	0	25
Satkhira	0000	16	999.5		1000.0	80.5	79.4	79.1	33.7		95		6.5		0	0	0	0	0	3	0	0	28
	0300		1000.7	—0.8	1001.2	85.0	80.9	79.3	34.1	+0.5	84	—2	6.4	+0.6	0	0	0	1	1	3	0	0	26
	1200		997.8		998.3	85.3	81.3	79.8	34.7		84		6.6		0	0	0	0	1	3	0	0	27
Jessore (P.T.)	0000	26	998.6		999.5	79.9	79.0	78.8	33.5		96		6.8		0	0	2	2	5	0	0	0	22
	0300		1000.2	—1.4	1001.1	83.6	81.4	80.5	35.6	+2.2	90	—4	7.1	+0.8	0	0	2	10	13	2	0	0	4
	1200		997.6		998.5	84.2	81.6	80.6	35.6		89		6.5		0	0	1	3	27	0	0	0	0
RAJSHAI																							
Pabna	0000	48	998.0		999.6	81.0	79.7	79.5	34.2		94		6.2		0	1	2	16	1	2	1	0	8
	0300		999.2		1000.8	84.0	80.7	79.2	34.5	+1.2	86	+1	6.4		0	1	1	13	5	8	1	0	2
	1200		995.9		997.5	85.1	80.8	79.1	34.1		83		5.8		0	1	1	21	3	3	0	0	2
Ishurdi	0000					80.1	79.2	78.9	33.7		96		6.7		0	2	10	8	9	2	0	0	0
	0300					83.6	80.4	79.1	33.8		87		7.2		1	0	7	9	6	6	2	0	0
	1200					84.7	80.7	79.2	34.0		84		7.1		0	0	8	14	5	2	2	0	0
Serajganj	0000	51	998.3		1000.0	80.8	79.4	79.1	33.7		95		6.6		0	0	0	7	1	0	0	0	23
	0300		999.5		1001.2	83.3	80.5	79.3	34.3		87		6.6		0	1	1	6	1	1	0	0	21
	1200		996.2		997.9	85.2	81.1	79.5	34.3		83		5.5		0	0	0	3	11	2	0	0	15
Rajshahi (R)	0000																						
	0300																						
	1200																						
Bogra (P.B.O.)	0000	65	997.8		1000.0	80.5	79.6	79.2	34.1		96		6.6		0	1	6	6	2	2	0	1	13
	0300		999.1	—1.3	1001.3	83.8	81.1	79.8	35.1	+2.9	89	+2	6.5	+0.4	0	0	9	14	2	3	0	0	3
	1200		995.6		997.8	85.2	81.8	80.6	35.5		86		6.2		0	0	6	13	5	0	0	0	7
Dinajpur	0000	123	995.4		999.6	81.0	79.5	79.0	33.7		93		6.0		0	0	6	0	0	0	0	0	25
	0300		996.6	—1.6	1000.8	84.5	80.4	78.8	33.5	+0.5	83	—4	5.1	—0.8	0	0	4	0	0	0	0	0	27
	1200		993.5		997.6	86.0	81.5	79.7	34.7		82		5.3		0	0	3	0	0	0	0	0	28
Rangpur	0000	113	997.2		1001.1	80.2	79.2	79.0	33.6		96		5.8		1	3	15	7	1	2	0	0	2
	0300		998.2		1002.1	84.0	80.9	79.7	34.6		87		5.6		0	5	13	10	1	0	0	2	0
	1200		994.2		998.0	86.6	81.7	79.7	34.8		80		4.8		2	4	5	16	1	3	0	0	0

(R) Register not received

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1961.

Division and Station	Hours of observation	Height of bar cistern above mean sea level	Mean Pressure: Station level reduced to standard temperature and gravity	Mean Pressure: Departure from normal	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud Amount: Mean amount	Departure from normal	Wind Directions Number of Observations From: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
KASHMIR																							
Jammu (x)	0300	1200																					
	1200																						
LAHORE																							
Lahore (P.B.O.)	0000	702	973.6		997.4	81.3	78.4	77.0	31.9		87		4.6		0	0	2	8	0	1	0	0	20
	0300		974.8	—1.3	988.5	84.3	79.4	77.5	32.1	+2.3	79	+6	4.2	+1.1	0	2	1	11	0	2	0	0	15
	1200		972.2		995.5	91.5	80.9	76.5	31.1		61		4.2		0	3	1	9	1	2	0	0	15
" (Cantt.)	0000	709	972.9		996.9	81.0	79.0	78.0	32.9		91		5.1		2	1	3	8	3	4	1	1	8
	0300		974.1	—	998.0	84.0	80.1	78.3	33.4	—	83	—	4.5	—	1	3	4	8	8	3	0	0	4
	1200		971.4		995.0	91.0	81.2	76.9	31.9		64		4.7		2	2	4	8	5	3	2	1	4
Sialkot (R)	0000	830																					
	0300																						
	1200																						
RAWALPINDI																							
Jhelum	0000	767	970.9		996.8	80.7	77.9	76.6	31.4		88		4.0		0	2	2	8	0	0	0	1	18
	0300		972.2	—	998.0	84.3	77.8	76.5	31.1	—	77	—	4.0	—	2	1	2	9	0	1	0	0	16
	1200		969.1		994.6	92.7	80.9	75.7	30.7		58		2.9		1	0	0	13	2	6	0	0	9
Chaklala	0000	1667	942.8		998.5	77.8	75.3	74.3	28.9		89		4.1		1	5	6	3	0	0	0	1	15
	0300		943.7	—	999.1	81.2	76.5	74.6	29.2	—	80	—	4.4	—	0	6	6	9	1	0	0	2	7
	1200		941.4		995.6	90.8	78.2	73.1	27.8		57		3.5		0	1	1	4	3	3	9	4	6
Rawalpindi	0000	1675	941.9		997.9	78.7	75.4	74.4	28.7		86		4.1		5	2	1	2	1	1	0	0	19
	0300		942.7	—1.7	998.3	82.5	77.2	75.3	29.7	+1.9	78	+4	4.2	+0.8	2	3	6	3	0	2	1	0	14
	1200		940.5		994.9	91.4	79.3	74.4	29.2		58		3.1		0	1	4	4	4	4	5	3	6
Campellpur	0000	1175	958.5	—	997.9	84.3	77.8	74.6	29.6	—	73	—	3.5	—	0	1	0	9	0	0	0	0	21
	0300		955.9		994.3	94.2	(d) 80.3	(d) 74.1	29.0		52		2.6		0	1	0	18	0	2	0	1	9
SARGODHA																							
Khushab	0000	616	(d) 976.3		(e) 997.2	(g) 83.4	(a) 78.5	(a) 76.2	31.1		79		1.5		0	1	12	0	0	0	0	0	18
	0300		(a) 977.3	—1.8	(b) 998.1	(b) 85.7	(b) 79.3	(b) 76.4	31.3	+1.5	74	+4	1.8	+0.6	0	0	12	0	0	0	0	0	19
	1200		974.2		994.5	96.8	81.6	75.2	30.0		51		1.6		0	9	17	1	0	0	1	0	12
Sargodha (P.A.F.)	0000	617	976.0		996.8	82.9	78.7	76.9	30.6		83		2.6		0	4	9	3	5	3	0	0	7
	0300		977.3	—	998.0	85.8	79.6	76.9	31.4	—	76	—	3.2	—	0	6	10	3	1	6	1	1	3
	1200		974.7		995.0	95.5	81.3	75.4	29.7		53		3.6		2	5	8	6	3	2	1	1	3
Mianwali (R)	0000	679																					
	0300																						
	1200																						
Lyallpur	0000	605	976.2		996.7	83.0	78.5	76.7	31.3		81		2.0		0	1	0	7	0	1	0	1	21
	0300		(a) 977.2	—1.8	(a) 997.6	84.7	78.7	76.1	30.8	+1.7	75	+4	2.6	+0.8	2	3	1	3	4	1	3	2	12
	1200		974.5		994.5	94.9	81.4	75.9	30.5		54		3.4		1	2	1	7	4	1	5	3	7
MULTAN																							
Montgomery	0000	558	977.5		996.4	82.1	77.7	75.9	30.4		81		2.6		0	2	2	1	1	9	0	0	16
	0300		979.4	—1.2	998.1	85.5	79.0	76.2	30.9	—0.2	73	—2	1.8	—0.1	0	2	0	3	0	12	0	0	14
	1200		976.3		994.7	85.5	81.2	75.2	29.8		52		2.9		0	3	2	8	1	9	0	1	7
Multan (P.B.O.)	0000	404	982.3		995.9	85.0	79.0	76.3	31.1		75		2.3		1	0	1	2	15	0	0	0	12
	0300		983.5	—	997.1	87.4	79.9	76.8	31.4	—	71	—	2.8	—	3	1	2	1	16	2	0	0	6
	1200		981.0		994.3	98.0	81.3	74.0	28.9		47		3.4		1	3	2	2	8	8	4	0	3
Multan (Surface)	0300	413	983.1	—1.9	997.0	87.0	79.9	76.9	31.6	—0.1	72	—1	2.8	+1.0	2	0	1	0	11	1	2	0	14
	1200		980.6		994.2	97.9	82.2	75.6	30.4		50		3.2		3	0	1	0	10	2	3	0	12

(a) Mean for 30 days. (b) Mean for 29 days. (d) Mean for 29 days. (e) Mean for 26 days. (x) Data not available. (R) Data not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. on geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Leiah	0000	487	*		*	80.8	72.1	67.3	22.9		64		1.4		5	0	2	0	12	5	2	2	3
	0300		*	—	*	88.7	78.8	73.4	29.6	—	65	—	2.3	—	5	1	1	1	13	1	0	1	8
	1200		*		*	96.7	81.7	75.2	30.1		51		2.7		5	0	0	1	13	5	2	1	4
BAHAWALPUR																							
Khanpur (P.B.O.)	0000	290	986.4		996.3	83.0	78.2	75.9	30.8		80		2.5		3	1	1	0	3	18	1	0	4
	0300		987.7	—	997.6	85.5	79.3	76.2	31.4	—	75	—	2.9	—	2	3	1	0	4	20	0	0	1
	1200		984.8		994.4	96.9	80.7	73.5	28.4		48		3.4		3	3	1	1	3	15	0	3	2
Bahawalpur	0300	384	983.8	—2.5	996.8	88.1	*	—	—	—	—		2.1	—0.1	1	1	0	10	4	7	0	1	7
	1200		*		*	97.5	*	—	—		—		1.8		2	0	1	1	2	1	2	0	22
Fort Abbas	0000	475	981.4		997.5	83.1	78.1	75.7	30.6		79		0.6		1	2	3	0	6	13	2	0	4
	0300		982.7	—	998.7	86.7	79.7	76.6	31.5	—	72	—	0.4	—	3	0	4	1	3	17	2	0	1
	1200		979.5		995.2	95.3	81.2	75.2	29.6		53		0.8		4	4	3	1	9	5	3	1	1
PESHAWAR																							
Chakdara	0000	2197	923.6		996.7	74.3	71.0	69.1	24.5		84		0.5		4	0	1	0	0	0	2	0	24
	0300		924.6	—	997.1	79.8	73.9	71.2	26.1	—	75	—	0.4	—	1	0	4	0	1	0	3	0	22
	1200		921.8		992.6	90.9	79.0	74.5	28.8		58		0.3		1	0	7	0	6	0	10	0	7
Peshawar	0000	1177	957.0		996.5	80.9	76.3	74.1	28.9		80		2.9		2	5	0	1	0	0	0	10	13
	0300		958.6	—2.0	997.8	83.9	77.9	75.3	29.9	+3.0	75	+8	2.9	—0.3	6	1	0	0	0	1	0	15	8
	1200		955.4		993.6	94.9	80.1	73.4	28.3		50		2.6		2	18	5	4	0	1	0	1	0
Risalpur	0000	1047	961.3		996.2	81.8	77.9	76.0	30.9		83		2.8		0	1	14	4	1	1	0	0	10
	0300		962.5	—	997.4	85.5	79.2	76.6	31.2	—	74	—	3.3	—	0	0	9	7	1	2	2	0	10
	1200		959.5		993.4	96.8	81.2	74.3	29.3		50		2.7		2	9	12	4	0	2	2	0	0
Haripur	0300	1757	939.3	—	997.5	82.5	75.2	72.1	26.7	—	70	—	4.1	—	0	3	0	8	0	16	0	4	0
	1200		*		*	90.9	79.4	74.6	29.6		60		3.5		0	1	0	6	0	15	0	9	0
Kohat (P.A.F.)	0000	1683	941.8		997.5	82.1	75.0	71.4	26.8		71		2.1		6	2	2	0	1	0	0	10	10
	0300		942.9	—	998.2	85.0	75.9	72.0	26.9	—	65	—	2.2	—	4	1	2	4	1	1	1	9	8
	1200		940.0		994.3	95.7	77.6	69.6	24.9		44		3.0		0	3	3	13	7	5	0	0	0
D. I. KHAN																							
Bannu	0000	1263	953.8		996.3	83.3	77.9	75.1	30.2		77		1.5		0	0	0	0	0	0	0	0	31
	0300		955.0	—	996.8	87.0	78.9	74.9	30.1	+2.8	69	+4	2.1	0.0	0	0	2	2	0	1	0	0	26
	1200		951.9		992.6	98.3	83.5	76.4	32.3		51		2.1		0	1	6	14	3	0	0	1	6
D. I. Khan	0000	570	976.9		996.2	82.8	79.1	77.4	32.3		85		1.7		0	3	0	0	0	0	0	1	27
	0300		978.1	—1.6	997.3	87.0	80.9 (c)	78.4 (c)	33.3	+2.3	76	+3	1.8	0.0	0	6	2	2	0	0	0	0	21
	1200		975.2		993.9	99.1	83.2	76.7	31.5		49		1.1		1	3	1	2	4	0	0	0	20
AFGHANISTAN																							
Jalalabad (x)	0000	1950																					
	0300																						
	1200																						

(x) Data rejected. (c) Mean for 28 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean uPressre: Station level reduced to standard temperature and gravity.	Mean uPressre: Departure from normal.	Mean uPressre: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean temperature of the air and humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
QUETTA																							
Sibi	0000	441	980.8		995.6	87.6	97.5	75.7	30.7		70		1.7		0	2	0	6	6	4	0	1	12
	0300		982.8	—0.6	997.4	88.7	80.0	75.5	31.0	+3.9	66	+6	2.8	+1.4	1	1	2	14	5	0	1	0	7
	1200		978.9		993.1	104.3	82.3	72.7	27.7		40		1.9		0	0	2	14	9	5	0	0	1
KALAT																							
Nokkundi	0000	2229	923.6		996.5	83.0	68.8	60.6	18.3		48		0.6		*	*	*	*	*	*	*	*	*
	0300		925.0	—	997.1	88.1	70.7	61.1	18.5	+4.4	41	+10	0.9	+0.1	*	*	*	*	*	*	*	*	*
	1200		922.2		992.2	104.4	79.4	66.9	24.0		32		0.2		*	*	*	*	*	*	*	*	*
Turbat	0000	510	979.6		996.9	84.6	77.7	74.3	29.3		73		1.6		0	0	0	0	3	7	4	0	17
	0300		980.8	—	997.9	86.9	78.7	74.7	29.8	—	68	—	1.0	—	0	0	0	0	0	3	6	0	22
	1200		976.4		993.0	105.8	80.0	66.5	23.2		30		0.2		0	0	1	0	3	11	12	0	4
Jiwani	0000	185	991.5		997.9	82.4	78.9	77.4	32.1		85		3.5		0	0	2	8	10	4	1	0	6
	0300		992.6	—	998.9	84.3	79.2	77.1	31.7	—	79	—	4.4	—	0	0	3	13	6	6	1	0	2
	1200		990.2		996.5	88.5	80.5	77.0	31.9		70		2.1		0	0	0	3	16	12	0	0	0
Pasni	0000	28	997.2		998.2	81.2	79.2	78.5	33.1		91		6.1		0	1	1	3	3	4	3	1	15
	0300		998.0	—2.7	998.9	83.6	80.0	78.6	33.3	+3.5	85	—2	4.5	—0.9	0	1	2	2	3	7	5	2	9
	1200		995.2		996.1	88.0	80.0	78.6	31.3		71		2.6		0	0	2	4	11	12	2	0	0
KARACHI FEDERAL TERRITORY																							
Ormara	0000	15	997.1		997.6	81.9	79.1	77.9	32.7		86		5.4		0	0	1	2	0	5	14	1	8
	0300		998.0	—	998.5	84.5	79.9	77.9	32.7	+3.6	81	—5	5.3	—0.9	0	0	4	0	0	1	19	0	7
	1200		995.3		995.8	88.5	80.8	77.7	32.4		71		2.8		0	0	2	0	2	5	22	0	0
Lasbela (R)	0000	292																					
	0300																						
	1200																						
Karachi Manora	0000	13	996.9		997.4	80.9	77.3	75.6	30.4		85		6.6		0	0	1	0	1	7	19	1	2
	0300		998.3	—2.7	998.7	82.0	78.2	76.3	31.2	+0.9	84	—4	6.5	+0.2	0	0	1	0	1	8	20	1	0
	1200		996.2		996.7	87.3	83.0	81.5	36.6		83		6.3		0	0	0	0	2	10	18	1	0
Karachi Mauripur	0000	52	995.9		997.7	82.1	79.9	79.0	33.9		90		5.4		0	1	0	0	1	8	13	1	7
	0300		996.9	—	998.7	83.5	80.4	79.2	34.0	—	88	—	6.1	—	0	0	1	0	0	10	16	2	2
	1200		994.9		996.7	86.5	81.9	80.2	35.1		82		5.9		0	0	0	1	1	19	8	1	1
Karachi City	0300	20	997.4	—	998.1	83.4	79.0	77.1	31.9	—	82	—	6.3	—	1	0	1	0	0	10	18	1	0
	1200		995.5		996.2	85.9	79.8	77.3	32.0		76		6.1		0	0	1	0	1	18	11	0	0
Karachi Airport	0000	73	995.2		997.6	81.7	79.9	79.2	34.0		92		5.3		1	0	0	0	0	9	16	1	4
	0300		996.4	—	998.9	83.1	80.4	79.1	34.2	—	88	—	6.4	—	1	0	0	0	0	12	13	3	2
	1200		994.4		996.9	86.0	81.7	80.1	35.3		83		6.4		0	0	0	1	3	23	4	0	0
Gudap	0300	—				81.5	78.7	77.5	32.2	—	87	—	6.7	—	0	0	0	0	0	15	16	0	0
	1200					85.9	80.0	77.4	32.4		76		6.4		0	1	1	0	0	18	11	0	0
HYDERABAD																							
Mithi	0000	96	994.8		998.0	80.1	79.3	79.0	33.8		97		5.9		0	0	0	0	0	5	0	0	26
	0300		996.3	—	999.5	82.8	80.9	80.3	35.3	—	92	—	6.7	—	0	0	0	1	0	9	0	0	21
	1200		993.0		996.2	91.1	84.8	82.6	38.1		78		5.9		0	0	0	1	1	19	0	0	10
Nagarparkar	0000	178	991.0		996.6	80.1	78.1	77.2	32.0		92		5.5		0	0	0	0	0	1	2	3	25
	0300		991.6	—	997.7	81.8	79.3	77.7	33.1	—	88	—	5.9	—	0	0	0	0	5	5	4	2	15
	1200		988.9		994.9	87.9	82.2	79.0	36.2		75		4.5		0	0	1	1	4	9	7	1	8

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Umerkot	0000	55	995.2		997.1	79.7	78.0	76.7	32.0		91		7.3		0	2	0	1	10	15	1	0	2
	0300		996.3	—	998.2	82.5	78.9	77.3	32.1	—	85	—	6.2		0	1	0	1	11	16	0	0	2
	1200		993.7		995.5	91.7	80.9	76.3	31.1		62		6.5		1	1	0	1	7	18	2	1	0
Chhor	0000	19	996.6		997.3	80.2	77.8	76.8	31.1		89		4.6		0	0	0	1	1	18	0	0	11
	0300		998.0	—	998.7	82.7	78.8	77.1	31.6	—	83	—	5.3		0	0	0	1	3	20	0	0	7
	1200		995.3		995.9	89.9	80.6	76.7	31.2		66		5.0		0	0	0	1	7	18	3	1	1
Hyderabad	0000	98	993.5		996.9	81.8	78.1	76.5	31.2		84		4.4		0	0	0	0	3	23	0	0	5
	0300		994.6	—2.0	998.0	83.6	78.9	76.5	31.6	+4.3	79	+5	4.8	+1.3	0	1	0	1	4	21	0	0	4
	1200		992.2		995.6	91.9	81.1	76.5	31.3		62		4.2		0	0	1	0	5	23	0	0	2
Badin	0000	31	*		*	80.7	78.2	77.1	31.5		89		2.3		1	0	0	0	1	29	0	0	0
	0300		998.9	—1.0	999.8	82.3	79.7	78.7	33.4	+4.3	88	+8	2.5	—2.7	0	1	0	1	1	27	0	0	1
	1200		997.0		997.8	90.7	82.5	78.8	34.2		70		2.4		0	2	0	2	6	19	0	1	1
KHAIRPUR																							
Padidan	0000	153	990.4		995.6	82.5	77.7	75.5	30.3		80		1.9		1	2	0	21	2	0	0	0	5
	0300		991.8	—	997.0	84.4	78.8	76.2	31.1	—	77	—	3.7	—	0	2	5	19	3	0	0	1	1
	1200		988.9		994.4	95.6	81.1	72.6	29.6		45		2.6		1	4	1	14	6	1	0	3	1
Nawabshah	0000	124	992.5		996.8	81.8	77.7	76.0	30.6		83		2.2		0	0	1	0	23	0	1	0	6
	0300		993.7	—	998.0	83.9	79.0	76.9	31.7	—	79	—	3.6	—	1	1	0	2	20	0	0	0	7
	1200		991.2		995.4	100.6	82.2	75.9	29.2		52		3.4		1	0	0	4	21	0	0	0	5
Sukkur	0300	221	989.7	—0.6	997.2	85.9	79.5	76.2	31.5	+2.7	74	0	3.7	+2.2	1	1	0	6	13	9	0	0	1
	1200		986.4		993.7	99.4	83.1	76.6	32.2		49		3.4		5	6	0	1	4	9	3	2	1
Kashmore	0000	285	*		*	82.8	76.2	72.7	27.9		73		1.5		0	1	0	0	0	0	0	0	30
	0300		988.9	—	997.6	86.2	78.2	74.5	29.3		69	—	1.4		0	1	0	0	1	0	0	0	29
	1200		985.5		993.8	102.5	81.9	72.7	27.8		40		1.7		0	6	0	0	0	0	1	0	24
Jacobabad	0000	183	989.6		995.8	85.4	81.2	79.0	34.5		81		2.0		1	2	1	15	7	3	0	2	0
	0300		991.2	—1.3	997.4	85.1	81.0	78.7	34.3	+0.7	79	+1	3.3	+1.9	1	1	2	20	3	2	0	1	1
	1200		988.0		996.9	99.2	84.3	78.3	33.4		53		2.7		0	2	3	16	8	0	2	0	0
JUNAGADH																							
Veraval	0000	26	(x)		x	x	x	x	x		x		x										
	0300		(c) 1001.3	—	(e) 1002.3	(d) 81.0	(o) 78.3	(o) 77.1	31.9	—	88	—	(c) 7.1	—	(c) 0	0	0	0	0	6	21	1	0
	1200		(o) 999.0		(o) 1000.0	(o) 81.1	(o) 77.6	(o) 76.2	30.7		85		(o) 6.4		(o) 0	0	0	0	0	5	7	3	1
ARABIA																							
Muscat (x)	0300	20																					
	1200																						
HILL STATIONS KASHMIR																							
Srinagar (x)	0000																						
	0300																						
	1200																						

(x) Data not available. (c) Mean for 28 days. (*) Data rejected. (d) Mean for 27 days. (e) Mean for 26 days. (o) Mean for 16 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Kashmir—contd.	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Gulmarg (x)	0300	—																					
	1200																						
Gurez (x)	0300	—																					
	1200																						
Sonamarg (x)	0300	—																					
	1200																						
Dras (x)	0300	—																					
	1200																						
Kargil (x)	0300	—																					
	1200																						
Leh (x)	0000	—																					
	0300																						
	1200																						
Skardu (x)	0000	7250																					
	0300																						
	1200																						
Misgar	0000	10190	(*)		(*)	54.8	44.7	34.2	7.0		48		3.0		0	0	2	1	1	0	7	1	20
	0300		698.5	—	3085.9	59.1	47.4	36.3	7.5	—	44	—	3.2	—	1	1	4	1	0	0	4	1	19
	1200		695.9		3053.0	72.7	53.0	36.7	7.6		28		2.4		0	3	7	16	0	3	0	1	1
Aliabad (x)	0300																						
	1200																						
Gilgit (x)	0000	4590																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	779.6		1427.2	62.0	59.8	58.4	16.8		88		5.3		1	2	0	3	0	0	3	18	4
	0300		780.2	—1.4	1430.0	65.1	62.0	60.1	17.9	0.0	84	—3	5.6	+1.1	1	1	0	4	0	2	12	3	8
	1200		779.1		1412.0	69.4	65.7	63.7	20.2		82		6.7		0	1	1	2	1	3	8	8	7
PESHAWAR																							
Drosh	0000	4806	845.2		1415.1	75.1	65.4	59.6	17.4		59		1.6		0	0	0	0	0	7	0	0	24
	0300		846.2	—2.4	1425.1	78.1	67.2	60.6	18.3	0.0	55	—7	2.1	+0.3	0	0	0	2	0	2	0	0	27
	1200		841.4		1371.6	93.1	69.1	53.9	14.3		27		2.6		0	0	0	1	0	28	0	1	1
Cherat	0000	4272	860.7		1409.2	72.4	69.0	67.3	22.8		83		2.4		0	0	0	2	3	4	0	0	22
	0300		861.7	—1.9	1419.1	73.7	69.8	67.7	23.3	+1.6	81	+1	3.0	—0.4	2	0	0	2	3	3	0	2	19
	1200		859.8		1402.8	82.6	73.2	68.8	24.0		63		1.9		0	1	0	2	12	9	0	0	7
Kakul	0000	4214	863.3		1416.5	71.3	67.7	65.7	21.7		83		4.1		7	12	1	4	3	1	0	4	0
	0300		864.3	—	1427.0	74.4	70.0	67.7	23.3	—	79	—	4.3	—	1	4	4	3	7	3	5	4	0
	1200		862.3		1409.5	81.0	72.5	68.5	23.8		66		3.9		0	1	1	5	10	10	2	2	0
Mallakot	0000	3226	(x)		(x)	73.2	(k) 69.3	68.1	22.9		81		3.6		x	x	x	x	x	x	x	x	x
	0300		(x)	—	(x)	75.0	(l) 70.3	67.7	23.4	—	78	—	3.9	—	x	x	x	x	x	x	x	x	x
	1200		(x)		(x)	85.7	74.3	69.7	24.3		57		3.6		x	x	x	x	x	x	x	x	x
Landikotal	0000	3503	882.1		1389.1	75.5	70.5	68.1	23.5		77		2.4		0	0	0	0	0	6	0	0	25
	0300		884.3	—	1413.6	80.4	72.3	68.2	23.8	—	67	—	2.6	—	0	0	0	6	0	1	0	0	24
	1200		881.6		1393.0	87.5	(j) 73.9	(j) 67.7	23.0		52		2.5		0	0	0	12	0	13	0	2	4

(x) Data not available. (*) Data rejected. (k) Mean for 20 days. (j) Mean for 21 days. (l) Mean for 19 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1961.

Division and Station	Hours of observation.	Height of barometer above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Direction Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Parachinar	0000	5673	*		*	*	*	—	—		—		2.1		0	0	0	0	0	0	0	0	31
	0300		*	—	*	*	*	—	—	—	—	—	1.5	—1.0	0	1	0	0	0	0	0	1	29
	1200		*		*	*	*	—	—		—		2.3		0	1	5	12	1	0	0	0	12
D. I. KHAN																							
Miranshah	0300	3026	*		*	*	*	—	—		—		0.4		0	2	0	0	0	0	0	0	29
	0300		*	—	*	83.1	73.8	69.6	24.3	+1.6	64	+3	1.0	—1.2	0	0	0	0	0	0	0	0	31
	1200		*		*	92.6	76.0	68.4	23.1		46		2.0		0	11	0	0	0	0	0	0	20
Wana	0300	4503	*	—	*	78.3	70.2	65.8	22.0	+2.2	66	—1	1.2	—0.5	0	2	0	0	0	0	0	0	29
	1200		*		*	86.4	72.5	65.5	21.6		49		3.2		0	13	0	12	0	1	0	0	5
AFGHANISTAN																							
Kabul	0300	5955	(x)	—	x	66.5	*	—	—	—	—	—	0.2	—0.5	0	0	0	16	0	4	1	10	0
	1200		(x)		x	81.5	*	—	—		—		0.2		0	2	0	5	0	6	0	12	0
Kandahar	0300	3462																					
	1200																						
QUETTA																							
Fort Sandeman (P.T.)	0300	4614	872.3	—0.5	1428.3	79.6	68.9	62.4	19.8	—0.1	58	+2	0.7	—0.8	7	9	3	1	1	1	1	1	7
	1200		849.2		1396.1	94.5	68.0	48.7	12.6		24		2.6		3	3	8	5	4	2	3	3	0
" (P.B.O.)	0000	4615	851.3		1417.5	76.4	69.5	65.7	21.8		71		1.0		0	12	0	2	2	0	0	0	15
	0300		852.2	—	1427.4	80.0	70.3	64.3	21.4	—	61	—	0.9	—	1	17	1	1	0	5	1	0	5
	1200		848.8		1392.3	93.8	69.9	54.9	15.2		30		2.9		2	7	8	1	3	5	1	4	0
Hindubagh	0000	5909	812.1		1404.3	71.1	62.6	57.8	16.4		63		0.0		0	0	0	1	0	1	5	0	24
	0300		813.2	—	1412.1	71.8	63.0	58.6	16.5	—	56	—	1.0		0	0	2	1	4	4	2	0	18
	1200		810.3		1368.9	79.7	68.1	60.9	18.3		38		1.4		0	0	5	4	0	5	13	1	3
Loralai	0000	4699	847.2		1402.4	68.8	65.5	61.3	18.7		88		0.5		0	0	1	0	0	0	4	3	24
	0300		848.0	—	1411.3	77.3	68.8	64.2	22.3	—	78	—	1.3		0	4	5	0	0	1	7	4	10
	1200		845.5		1384.4	88.6	72.0	60.8	24.1		53		2.1		0	0	2	12	13	3	0	1	0
Harnai	0000																						
	0300		81		22.9	73.2 (x)	69.3 (x)	68.1 (x)	(x)		(x)		(x)										
	1200		78	—	23.4	75.0 (x)	70.3 (x)	67.7 (x)	(x)	—	(x)		3.6		*	*	*	*	*	*	*	*	*
			57		24.3	85.7 (x)	74.3 (x)	69.7 (x)	(x)		(x)		2.8		*	*	*	*	*	*	*	*	*
Quetta (Sampungli)	0000		77		23.5	75.5	70.5	68.1															
	0300		833.2	—	1401.5	84.4	71.7	68.3		—			1.3		0	0	4	14	0	0	0	0	1
	1200		834.2	—	1402.5	86.5	74.4	67.7		—			1.2		0	0	5	8	0	1	2	0	1
			831.4		1387.0	92.8	62.1	37.8	8.2		17		1.7		0	0	0	2	1	2	11	15	0

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1961

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Mean Temperature of the Air and Humidity: Wet bulb.	Mean Temperature of the Air and Humidity: Dew point.	Mean Temperature of the Air and Humidity: Vapour pressure.	Mean Temperature of the Air and Humidity: Departure from normal.	Mean Temperature of the Air and Humidity: Relative humidity.	Mean Temperature of the Air and Humidity: Departure from normal.	Total Cloud Amount: Mean amount.	Total Cloud Amount: Departure from normal.	Wind Directions Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
QUETTA—contd.																							
Quetta (P. T.)	0300	5490	825.4	—2.3	1415.1	73.3	63.4	57.6	16.4	+1.5	59	+3	0.8	—0.2	0	1	0	0	4	0	0	0	26
	1200		824.6		1398.8	90.1	74.4	67.6	23.4		49		1.1		1	0	0	0	1	2	1	12	14
Quetta (P. B.O.)	0000	5560	823.6		1454.7	68.2	57.7	49.4	12.5		53		0.3		0	0	0	1	0	2	0	0	28
	0300		824.3	—	1459.0	76.9	62.0	51.8	13.8	—	45	—	0.9	—	0	4	3	4	2	3	4	5	6
	1200		822.3		1431.5	91.0	63.7	44.1	10.3		22		1.9		0	0	0	0	1	5	7	12	6
Chaman	0000	4311	859.0		1403.2	77.3	60.3	45.6	11.0		35		0.1		0	0	6	8	2	8	4	0	3
	0300		859.8	—1.8	1416.2	82.4	62.5	47.4	11.3	—0.2	30	—2	0.4	—0.2	0	1	3	8	2	8	4	0	5
	1200		856.9		1385.5	97.4	68.6	48.8	12.1		20		0.5		0	0	0	0	1	8	19	2	1
Nushki	0000	3416	*		*	80.1	62.5	49.5	12.2		34		0.4		0	0	11	0	1	0	1	2	16
	0300		891.3		1460.1	86.5	67.8	56.3	15.7	—	37	—	1.1	—	1	3	8	0	1	0	0	5	13
	1200		888.5		1443.9	102.4	74.9	59.5	18.3		28		1.1		0	0	0	0	1	0	20	10	0
Dalbandin	0000	2788	905.6		1399.8	78.1	60.0	44.5	10.4		31		0.7		0	2	0	0	1	1	10	4	13
	0300		907.3	—0.7	1416.6	82.0	61.8	45.4	10.7	—1.3	29	—5	0.7	—0.2	0	5	0	2	0	11	3	2	8
	1200		903.9		1409.6	104.3	71.3	49.7	12.7		17		1.0		2	3	3	6	1	12	1	3	0
KALAT																							
Kalat	0000	6616	790.6	—0.7	1394.4	60.7	50.2	40.3	8.6		48		0.8		2	0	0	2	13	2	4	6	1
	0300		791.7	—3.7	1395.8	71.9	56.5	44.0	10.1	—0.8	39	—7	0.4	—1.0	2	1	1	0	13	4	4	6	0
	1200		789.5		1356.6	84.1	58.9	37.2	8.0		21		0.6		5	0	1	0	3	1	6	15	0
Panjgur	0000	3177	895.1		1415.8	77.0	64.9	55.3	16.1		53		0.9		5	4	1	0	0	4	6	5	12
	0300		896.1	—2.9	1428.4	79.6	65.2	54.5	15.5	—5.1	48	—14	0.8	—0.8	2	3	1	2	2	4	0	5	0
	1200		893.9		1422.2	87.2	66.0	40.1	9.1		16		1.0		10	0	0	0	0	2	1	18	
Dalbandin																							
Rangpur																							

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF AUGUST, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
CHITTAGONG																					
Rangamati	89.5		93	4 days	77.4		75	25	25.90		4.14	25	26		x		12	0	0	0	0
Cox's Bazar	85.1	—0.2	91	23	76.4	+0.3	74	25	44.62	+16.87	8.25	4	20	—1.9	x		2	0	0	0	0
Chittagong (Patenga)	87.0		93	23	77.5		75	3,25,26	35.75		7.79	3	20		x		4	0	0	0	0
Chittagong (P. T.)	86.2	+0.3	91	23	77.3	+0.9	75	4 days	35.12	+14.70	6.99	4	21	+3.9	x		2	0	0	0	0
Maijdee Court	86.4	+0.7	90	23,28	77.9	—0.3	75	8,25	25.65	+1.32	3.60	31	25	+2.1	x		0	0	0	0	0
Comilla (R)																					
Brahmanbaria	88.4	—1.0	92	13,22,23	79.0	+2.8	77	8,25,26	7.81	—4.85	1.63	6	13	—3.8	3.9		4	0	0	0	0
Sylhet (P.B.O.)	88.6		95	23	77.6		76	24	19.82		2.45	30	25		x		7	0	0	0	0
Srimangal (R)																					
DACCA																					
Mymensingh	88.9	+1.2	95	23	79.0	+0.7	76	3,5	5.91	—9.58	1.37	3	15	—3.7	x		4	0	0	0	0
Jamalpur (R)																					
Narayanganj	88.3	+0.5	92	13,23,28	80.0	+1.2	77	4,25,26	13.68	+0.42	2.68	4	15	—2.6	4.3	+0.3	1	0	0	0	0
Dacca (Tejgaon)	87.7		91	3,13,28	79.4		77	5 days	12.49		3.90	4	17		6.8		4	0		0	0
Faridpur	87.2	+0.1	91	27	79.4	+0.7	77	5 days	15.61	+3.48	6.32	5	18	+0.9	6.9	+1.3	0	0	0	0	0
KHULNA																					
Barisal	88.2	+1.2	93	14	79.3	+1.0	76	25	20.91	+5.97	2.40	3	20	—0.3	x		1	0	0	0	0
Khulna	88.0	+0.1	92	13,27,29	79.5	+1.0	76	24	14.64	+0.85	4.07	5	16	—2.4	2.4	—1.2	0	0	0	0	0
Satkhira	89.4	+0.9	95	29	79.6	+1.2	76	25	7.10	—4.47	1.34	5	14	—3.2	0.7	—1.6	0	0	0	0	0
Jessore (P. T.)	88.4	+0.3	92	14,29	79.3	+0.5	77	5,25	15.90	+4.86	5.44	5	13	—3.6	3.0	+0.6	0	0	0	0	0
RAJSHAHI																					
Pabna	89.0	—0.5	92	12,15,29	80.6	+4.3	77	3	9.99	—0.47	2.04	6	15	—0.8	x		13	0	0	0	0
Ishurdi	88.6		93	29	79.1		76	2	12.78		2.31	5	17		x		1	0	0	0	0
Serajganj	89.5		103	18	78.7		76	15,30	11.92	+0.59	1.69	3	19	+3.8	2.1		4	0	0	0	0
Rajshahi (R)																					
Bogra	89.0	+0.2	93	23,29	79.4	+0.8	75	10	17.47	+4.74	4.90	10	17	+0.6	2.2	+0.5	3	0	0	0	0
Dinajpur	90.7	+1.7	96	23,24	79.9	+1.0	76	10	6.39	—7.32	2.02	4	10	+5.3	x		4	0	0	0	0
Rangpur	90.2		95	29	79.5		75	10	6.97	—6.78	1.52	31	10	—4.0	2.9		3	0	0	0	0

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF AUGUST, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR																					
Jammu (x)																					
LAHORE																					
Lahore (P.B.O.)	94.1	—2.9	101	8,20,21	80.1	+1.4	70	21	4.97	—0.18	1.02	29	10	+4.3	2.1	+0.4	6	0	0	0	1
,, (Cantt.)	94.0	—	101	20,21	78.9	—	70	20	6.07	—	2.38	11	7	—	4.0	—	6	0	0	1	0
Sialkot (R)																					
RAWALPINDI																					
Jhelum	94.6	—	101	15	79.5	—	73	16,17	3.43	—	1.06	24	7	—	(c) 2.5	—	11	0	0	0	0
Chaklala	93.5	—	100	9,15	75.8	—	69	6,16	6.09	—	1.80	16	8	—	4.0	—	17	0	0	0	0
Rawalpindi	94.6	+0.9	100	9,15	76.9	+1.4	69	16	7.20	—1.97	2.15	16	9	—0.1	2.3	+0.9	11	0	0	0	1
Campbellpur	96.2	—	104	15	78.8	—	72	17,24	2.70	—	1.15	17	5	—	1.1	—	0	0	[illegible]	0	0
SARGODHA																					
Khushab	99.1	—0.7	109	14	80.3	—0.8	71	17	3.20	—0.31	1.00	17	6	+2.3	4.5	—0.1	1	0	0	0	0
Sargodha	98.1	—	108	14	81.1	—	72	17	3.71	—	2.43	17	4	—	5.8	—	4	0	0	0	2
Mianwali (R)																					
Lyallpur	*	—	—	—	80.9	+0.4	74	4 days	6.56	+2.98	2.56	26	6	+0.7	3.1	+0.7	5	0	0	0	2
MULTAN																					
Montgomery	98.3	—1.8	106	8	80.9	—0.8	70	21	1.72	—0.18	1.46	21	6	+2.3	(x)	—	3	0	0	0	0
Multan (P.B.O.)	100.7	—	106	9	83.8	—	77	24	0.64	—	0.26	26	3	—	5.7	—	3	0	0	0	0
,, (Surface)	100.6	+1.7	105	13,15,20	84.4	+1.5	77	24	0.78	—1.04	0.36	7	3	—0.5	(x)	—	3	0	0	0	0
Leiah	102.0	—	107	9	*	—	—	—	4.37	—	2.80	5	1	—	(x)	—	1	0	0	0	0
BAHAWALPUR																					
Khanpur (P.B.O.)	100.0	—	104	4 days	81.4	—	75	22	2.77	—	1.97	28	3	—	5.2	—	5	0	0	0	2
Bahawalpur	100.7	+0.1	106	9,20	83.4	+1.7	77	22	0.21	—1.12	0.19	26	1	—1.3	4.8	+1.0	0	0	0	0	0
Fort Abbas	100.7	—	109	20	82.1	—	74	22	2.38	—	0.80	26	4	—	4.8	—	0	0	0	0	0
PESHAWAR																					
Chakdara	93.3	—	99	8,9,15	73.6	—	69	24	4.77	—	1.20	11	6	—	(x)	—	5	0	0	0	0
Peshawar	97.5	—0.7	105	9	80.0	+1.1	73	24	3.08	+1.05	0.90	17	4	+1.5	2.6	+0.9	8	0	0	0	1
Risalpur	99.0	—	108	15	79.6	—	72	24,25	1.13	—	0.40	24	3	—	4.3	—	5	0	0	0	1
Haripur	95.0	—	100	16	73.9	—	68	22,24	8.28	—	3.34	16	7	—	4.1	—	5	0	0	0	0
Kohat (P.A.F.)	97.6	—	107	9	79.9	—	71	24	2.69	—	1.10	10	4	—	4.0	—	8	0	0	0	0
D. I. KHAN																					
Bannu	99.9	—0.1	107	14	82.4	+2.1	74	3	0.76	—1.13	0.55	11	2	—1.1	1.4	—	1	0	0	0	0
D. I. Khan	100.6	+0.1	107	14,15,21	81.4	+0.2	75	23	0.26	—1.64	0.17	23	1	—1.3	1.4	—0.1	0	0	0	0	0
AFGHANISTAN																					
Jalalabad (x)																					

(R) Register not received. (x) Data not available. (c) Mean for 28 days. (*) Data rejected.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF AUGUTS, 1961.

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
QUETTA																					
Sibi	105.9	+1.0	111	20	85.4	+0.1	74	19	2.97	+2.39	1.17	29	5	+3.9	(a) 3.8	—1.2	1	0	0	0	1
KALAT																					
Nokkundi	106.4	—0.5	114	1	82.4	+1.3	74	11,13	0.00	0.00	0.00	—	0	0.0	x	—	0	0	0	0	0
Turbat	108.9	—	121	6	x	—	x	—	0.46	—	0.46	29	1	—	x	—	0	0	0	0	0
Jiwani	91.2	—	102	7	81.3	—	79	16,17,19	0.00	—	Tr.	30.31	0	—	8.1	—	0	0	0	0	0
Pasni	95.1	+6.9	100	12	x	—	x	—	0.25	+0.08	0.25	29	1	+0.7	8.2	+2.5	1	0	0	0	0
KARACHI FEDERAL TERRITORY																					
Ormara	91.7	+4.7	101	12	81.3	+2.8	77	29	0.11	0.00	0.11	27	1	+0.7	7.6	—1.0	1	0	0	0	0
Lasbela (R)																					
Karachi (Manora)	90.4	+4.6	94	24	79.9	+1.4	73	27	1.98	+0.42	1.11	27	3	+1.4	x	—	5	0	0	0	0
Karachi (Mauripur)	89.0	—	95	25	81·4	—	76	27	2.66	—	2.00	27	3	—	8.0	—	2	0	0	0	0
Karachi (City)	88.9	—	93	25	80.7	—	75	27	5.06	—	3.45	27	4	—	6.5	—	7	0	0	0	0
Karachi (Airport)	89.5	—	94	25	80.0	—	73	2	7.31	—	3.89	27	5	—	8.5	—	5	0	0	0	0
Gadap	89.8	—	95	26	77.9	—	74	27	4.65	—	2.40	27	5	—	6.0	—	0	0	0	0	0
HYDERABAD																					
Mithi	94.7	—	102	20,26	79.2	—	76	4 days	3.86	—	1.70	26	3	—	1.7	—	0	0	0	0	0
Nagarparkar	90.7	—	97	19	x	—	x	—	2.46	—	1.66	26	2	—	x	—	0	0	0	0	0
Umerkot	95.0	—	101	19	78.5	—	75	29	1.98	—	1.19	27	3	—	x	—	0	0	0	0	0
Chhor	93.8	—	101	25	79.3	—	76	23,27,29	2.94	—	1.34	27	5	—	4.0	—	2	0	0	0	0
Hyderabad	96.6	+0.8	104	7,22,26	81.1	+1.9	74	27	4.21	+2.18	2.64	27	3	+0.8	(c) 8.0	—1.0	2	0	0	0	0
Badin	94.0	+1.8	102	25	79.3	0.0	74	10	6.39	+4.07	5.52	26	2	—0.3	x	—	2	0	0	0	0
KHAIRPUR																					
Padidan	101.0	—	112	21	81.3	—	76	30	0.20	—	0.20	28	1	—	7.1	—	1	0	0	0	0
Nawabshah	100.5	—	114	21	81.1	—	76	29	2.00	—	1.40	27	4	—	5.9	—	3	0	0	0	0
Sukkur	101.9	+0.6	108	21	82.8	+2.0	78	30	0.24	—0.88	0.15	28	1	0.0	x	—	0	0	0	0	0
Kashmore	103.5	—	108	6,8	81.2	—	76	19	0.25	—	0.17	22	1	—	x	—	3	0	0	0	0
Jacobabad	100.9	—2.8	108	20	84.1	+1.9	79	30	0.58	—0.30	0.28	26	1	—0.3	7.3	+1.5	3	0	0	0	1
JUNAGADH																					
Veraval	*	—	x	—	x	—	x	—	0.71	—	0.50	27	2	—	x	—	0	0	0	0	0
ARABIA																					
Muscat (x)																					
HILL STATIONS																					
KASHMIR																					
Srinagar (x)																					
Gulmarg (x)																					
Gurez (x)																					
Sonamarg (x)																					
Dras (x)																					
Kargil (x)																					
Leh (x)																					
Skardu (x)																					

(R) Register not received. (x) Data not available. (a) Mean for 30 days. (c) Mean of 26 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF AUGUST, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR—(*Continued*)																					
Misgar	77.2	—	87	1	52.6	—	45	12	0.15	—	0.05	2,11	0	—	2.7	—		0	0	0	0
Aliabad (x)																					
Gilgit (x)																					
RAWALPINDI																					
Murree	72.6	—0.6	78	8	59.2	+1.8	55	17,21	13.21	—0.60	5.17	31	11	—3.3	4.7	+1.5	9	0	16	0	0
PESHAWAR																					
Drosh	96.9	+1.7	108	14	73.3	+0.7	63	11,25	1.22	+0.57	0.57	25	4	+2.1	4.9	+0.7	6	0	0	0	0
Cherat	85.5	+0.1	94	9,15	69.7	—0.2	63	17	1.52	—3.42	0.56	24	4	—2.4	1.9	—2.6	5	0	10	0	0
Kakul	84.9	—	91	15	69.6	—	62	21	9.11	—	2.79	16	12	—	(x)	—	14	0	0	0	0
Balakot	88.8	—	93	8,9,15	71.4	—	62	21	8.47	—	3.01	31	9		(x)	—	2	0	0	0	0
Landikotal	93.0	—	100	14,15,21	73.5	—	68	24,25	2.36	—	2.15	11	2	—	(x)	—	0	0	0	0	0
Parachinar	85.2	+0.5	90	4 days	65.7	+0.9	61	18,30	3.75	—0.05	1.14	21	6	—1.6	(b) 2.8	+0.7	0	0	0	0	0
D. I. KHAN																					
Miranshah	95.8	+2.3	101	8,15,20	78.1	+1.4	72	11,24	0.55	—0.66	0.55	3	1	—1.6	4.2	—1.2	0	0	0	0	0
Wana	92.2	+0.8	100	21	70.9	+0.8	66	24	0.65	—0.29	0.65	24	1	—2.2	2.2	—	0	0	0	0	0
AFGHANISTAN																					
Kabul	89.3	—1.7	94	9,14	57.1	—1.2	52	4 days	0.00	—0.09	0.00	—	0	—0.4	(x)	—	0	0	0	0	2
Kandahar (x)																					
QUETTA																					
Fortsandeman (P.T.)	97.4	+0.5	103	5,10,15	75.5	+2.2	70	24	0.21	—1.69	0.10	4	1	—2.8	x	—	6	0	0	0	0
" (P.B-O.)	96.5	—	102	5,16	74.4		69	24	0.40		0.17	4	2	—	3.8	—	6	0	0	0	0
Hindubagh	94.7	—	99	9,13,14	x		x	—	0.59		0.59	23	1	—	4.5		0	0	0	0	0
Loralai	92.8	—	100	5	59.1		46	15	0.60	—0.62	0.40	24	2	+0.1	2.5		0	0	0	0	0
Harnal									3.03	+0.37	1.23	17	6	+1.7			0	0	0	0	0
Quetta (Samungli)	94.7	—	99	10	(b) 64.3		55	20	0.05		0.05	28	0		6.2		2	0	0	1	0
Quetta (P.T.)	92.4	—	97	5,10	64.5		57	21	0.40		0.40	28	1		3.4	+1.4	0	0	0	0	0
Quetta (P.B.O.)	94.1	—	98	4 days	67.5		60	20	0.33		0.33	27	1		3.4		0	0	0	0	0
Chaman	98.0	+0.7	103	4 days	74.0	+0.7	69	19,21	0.00	—0.04	0.00	—	0	—0.1	x		0	0	0	0	0
Nushki	104.6	—	110	2,5	79.2		74	31	0.00		0.00	—	0		x		0	0	0	0	0
Dalbandin	106.5	+0.4	112	4,5,10	76.0	+4.4	71	5 days	0.00	—0.13	Tr	28,29	0	+0.2	4.5	—0.2	0	0	0	4	1
KALAT																					
Kalat	88.0	—1.8	93	15	59.1	+0.9	52	19,26	0.59	+0.26	0.59	29	1	+0.1	x		0	0	0	0	0
Panjgur	99.0	—1.9	104	5,9	73.3	+0.1	67	19	0.30	—0.04	0.30	29	1	+0.3	x		0	0	0	0	0

(*) Data rejected. (R) Register not received. (x) Data not available. (b) Made for 29 days.

REGD. No. S. - 1452

PAKISTAN WEATHER REVIEW, 1961

MONTHLY WEATHER REPORT

September

(PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN)

Chief Features:

1. Deficient Rainfall in East Pakistan.

2. Formation of a cyclonic storm in the north Arabian sea in the middle of the month.

East Pakistan

Monsoon activity remained generally subdued during the month resulting in deficient rainfall over the region outside Chittagong division. Two depressions formed in the north Bay of Bengal during the first week but moved away westnorthwestwards. Under their influence local or fairly widespread rain or thundershowers occurred in the region practically throughout the first eight days of the month. Thereafter unsettled conditions reappeared in the north Bay of Bengal resulting in the formation of depression centred near Latitude 20°N and Longitude 92°E at 0300 hours GMT on the 12th. It intensified into a cyclonic storm the same evening and was centred within half a degree of Latitude 21-1/2°N and Longitude 87°E on the 13th morning. It moved westnorthwestwards, crossed Orissa coast and lay as a depression at 0300 GMT of the 14th with its centre about 30 miles northeast of Champa moving away further westwards later. It gave rise to mainly scattered rainfall activity and concurrenlty a few thunderstorms in the region during the second week of the month. The monsoon remained weak during the third week of the month also when rain or thundershowers continued to occur in the region locally or at few places except on the 20th when due to temporary strengthening of monsoon they were fairly widespread.

Another depression formed with its centre near Latitude 20-1/2°N and Longitude 89°E at 0300 GMT on the 22nd and behaved like its predecessor and ultimately filled up over Vindhya Pradesh. It was responsible for widespread rainfall or thundershowers in the region on the 22nd and 23rd. Yet another depression formed practically at the same position on the 28th morning, crossed coast the same evening and was centred on the 29th morning about 20 miles West of Midnapore and about 50 miles northeast of Champa on the last day of the month. It caused thundershowers or rainfall locally or at few places in East Pakistan during the last week of the month.

Chief amounts of rainfall during the month were Cox's Bazar 3" on the 1st; Maijdee Court 4" and Cox's Bazar 3" on the 2nd; Maijdee Court 3" on the 3rd; Srimangal 3" on the 19th; Rangpur 3" on the 20th; Dacca 3" on the 21st; Cox's Bazar 3" on the 22nd; Rangamati 5" on the 26th; Cox's Bazar 3" on the 28th and Sylhet 5" and Cox's Bazar 3" on the 29th. The total rainfall during the month was normal in Chittagong division, in moderate defect in Khulna division and in large defect elsewhere. Averaged over the region as a whole it was in moderate defect.

The mean maximum the mean minimum temperatures and the mean relative humidity were all normal over the region.

The mean cloud amount was in excess in Chittagong division and normal elsewhere.

West Pakistan

A western disturbance on the 1st followed by four westerly low pressure waves during the next five days affected the northern parts of the region and fairly widespread rain or thundershowers in Rawalpindi and Peshawar divisions during the first five days of the week and there was widespread rainfall in Lahore division, local rain in Sardogha division and scattered in D. I. Khan division between the 3rd and the 4th and only in Lahore division on the first day. An eastern depression from the north Bay of Bengal moved to Rajisthan and was centred near Ajmer on the 10th morning. At this stage it began to draw fresh monsoon from the Arabian Sea it deepened and continued to move westwards and on the 13th morning it was centred about 20 miles east of Umerkot. Thereafter it moved southwestwards emerged into the eastern sector of the north Arabian Sea on the 14th morning and deepened further into a cyclonic storm of very small extent with its centre at 0300 GMT within half a degree of Latitude 23-1/2°N and longitude 67-1/2 E. It then started weakening and lay as depression the same evening with its centre near latitude 23-1/2 N and Longitude 66°N and as a shallow depression at 15.0300 GMT within a degree of Latitude 23-1/2°N and Longitude 63°E. It continued to weaken and lay as a low pressure area over the northwest sector of the North Arabian Sea, on the 16th after which it became unimportant. At the same time three distinct waves of low pressure moved eastwards across the extreme north of the country under their combined influence fairly widespread rain or thundershowers occurred in Lahore, Rawalpindi and Peshawar divisions between the 8th and 10th; in Karachi division on the 11th and the 14th and in Hyderabad division on the 13th and the 14th with a few heavy falls in Karachi division on 11th. Scattered rain or local falls also occurred in the region between the 6th and the 10th; in Khairpur, Hyderabad and Karachi divisions between the 10th and the 13th and also on the 15th; in Rawalpindi and Peshawar divisions between the 14th and 17th and in Multan division on the 14th. An easterly low pressure wave moving across central India to the eastern sector of the North Arabian Sea again caused scattered rain or thundershowers in Karachi and Hyderabad divisions on the 19th. Thereafter a westerly low pressure wave and a feeble western disturbance caused scattered thundershowers in Quetta and Hyderabad divisions on the 21st; in Peshawar Quetta and Kalat divisions on the 22nd and in Rawalpindi, Peshawar, Quetta, Kalat and Karachi divisions on the 23rd. During the last week of the month the weather activity was restricted only to Peshawar and Rawalpindi divisions when mainly scattered rain or thundershowers occurred. Lahore division also received scattered showers on the 27th.

Chief amounts of rainfall during the month were:—Rawalpindi and Haripur 2" each on the 1st; Rawalpindi, Campbellpur and Cherat 3" and Murree, Khanpur and Haripur 2" each on the 8th; Sialkot 3" and Bahawalpur 2" on the 9th; Karachi (Airport) 3" and Karachi (Monora) 2" on the 11th; Umerkot 4" on the 13th; Nagarparkar 5" on the 14th; Murree 2" on the 16th, Rawalpindi 2" on the 17th and Jhelum 3" on the 27th.

The total rainfall during the month was in large defect in Multan and D. I. Khan divisions, in slight defect in Sargodha division in moderate excess in Lahore and Khairpur divisions and in large excess elsewhere. Averaged over the region as a whole it was in large excess.

The mean maximum temperature was above normal in Peshawar, Quetta, Kalat and Karachi divisions and normal elsewhere. It was below normal in Lahore division. The mean minimum temperature was above normal over the whole region.

The mean relative humidity was in excess over the region outside Multan, Kalat, Karachi and Khairpur divisions where it was normal.

The mean cloud amount was normal in Sargodha, Karachi and Hyderabad divisions and in excess elsewhere.

Table I contains the divisional means of rainfall, temperature, relative humidity and the cloud amount for the 16 divisions of Pakistan. These means are based on the observations at the Stations whose monthly means are given in the subsequently tables.

TABLE I—DIVISIONAL MEANS FOR SEPTEMBER, 1961,

Division	PRECIPITATION				DEPARTURE FROM NORMAL OF				
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	0300 hrs. G. M. T.		
							Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	Mb.	%	
EAST PAKISTAN									
Chittagong	11.78	12.79	—1.01	—8	—0.6	+0.3	—0.2	+1	+1.1
Dacca	5.34	11.04	—5.70	—52	+0.4	+0.2	—0.5	0	+0.7
Khulna	6.23	8.11	—2.58	—29	—0.8	—0.4	+0.1	0	+0.7
Rajshahi	5.57	11.30	—5.73	—51	+0.3	+1.4	+0.2	—1	—0.1
Mean	7.58	11.12	—3.54	—32	—0.2	+0.6	—0.1	0	+0.6
WEST PAKISTAN									
Kashmir (x)	...	...	...	...	..	...	...	...	...
Lahore	2.86	2.20	+0.66	+30	—3.0	+5.7	+5.0	+11	+0.7
Rawalpindi	12.79	4.65	+8.14	+175	—1.9	+3.9	+4.5	+19	+2.5
Sargodha	1.21	1.43	—0.22	—15	+0.2	+3.4	+6.1	+11	—0.1
Multan	0.23	0.91	—0.68	—75	—0.3	+3.5	+3.3	+3	+0.4
Bahawalpur	1.75	0.13	+1.62	+1246	—1.9	+4.6	*	*	+0.6
Peshawar	3.05	1.42	+1.63	+115	+2.3	+4.9	+6.8	+15	+0.6
D. I. Khan	0.21	0.62	—0.41	—66	+1.0	+4.9	+6.1	+9	+0.6
Quetta	0.93	0.27	+0.66	+244	+2.5	+4.6	+3.9	+6	+0.3
Kalat	0.06	0.03	+0.03	+100	+2.7	+5.3	+2.0	—2	+0.4
Karachi	3.01	0.27	+2.74	+1015	+4.3	+2.5	+2.5	—3	+0.5
Hyderabad	4.19	0.76	+3.43	+451	—1.5	+2.3	+6.3	+14	+0.3
Khairpur	0.12	0.09	+0.03	+33	+0.1	+3.7	+4.5	+5	+1.1
Mean	1.77	0.69	+1.08	+157	+1.0	+4.3	+4.0	+6	+0.5
Junagadh (x)	...	...	...	...	...	...	...	...	...

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1961.

Division and Station	Hours of observation	Height of bar cistern above mean sea level	Mean Pressure: Station level reduced to standard temperature and gravity	Departure from normal	Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud Amount: Mean amount	Departure from normal	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas.										
CHITTAGONG																							
Rangamati	0000	208	997.6		1004.8	78.2	76.1	75.1	29.8		91		5.6		1	0	0	2	25	0	1	1	0
	0300		999.2		1006.3	84.5	79.5	77.1	32.1		79	—	5.1		1	0	0	2	25	1	1	0	0
	1200		995.8		1002.9	81.9	78.6	77.5	32.1		87		6.4		1	0	1	0	25	2	0	1	0
Cox's Bazar (P.T.)	0000	38																					
	0300		1003.8	—2.4	1005.1	80.7	78.1	77.0	31.7	0.0	89	+5	5.5	+0.3	2	0	0	10	15	3	0	0	0
	1200		1001.1		1002.4	79.8	77.4	76.5	31.1		90		5.7		0	0	0	8	15	6	1	0	0
Chittagong (Patenga)	0000	20	1002.8		1003.5	77.7	76.4	75.7	30.5		94		6.3		1	0	2	22	2	0	0	0	3
	0300		1004.5		1005.2	82.3	78.0	76.3	30.8		82		6.3		0	1	2	19	6	0	0	1	1
	1200		1001.4		1002.1	82.5	78.8	77.1	31.9		84		6.8		0	0	0	10	11	5	4	0	0
Chittagong (P.T.)	0000	46																					
	0300		1003.7	—2.4	1005.3	82.8	77.9	75.8	30.5	—0.8	80	—4	6.5	+1.0	1	0	2	17	7	0	1	1	1
	1200		1000.7		1002.3	81.5	77.8	76.0	30.8		85		6.9		0	0	0	12	10	5	2	1	0
Maijdee Court	0000	25	1002.6		1003.5	78.7	77.6	76.8	31.9		94		6.5		0	2	0	8	2	0	0	0	18
	0300		1004.0	—2.4	1004.9	81.0	78.6	77.6	32.5	—0.1	89	+3	6.9	+2.2	1	0	1	16	1	0	0	0	11
	1200		1000.7		1001.5	82.8	78.9	77.2	32.1		84		5.7		1	0	1	9	11	1	1	1	5
Comilla	0000	29	1002.1		1003.1	77.1	76.1	75.3	30.3		94		6.0		0	0	4	9	(c) 11	0	0	0	4
	0300		1003.8	—2.4	1004.8	83.6	78.5	76.7	31.0	—1.2	82	+2	5.7	+0.8	0	0	3	11	11	0	0	0	5
	1200		1000.2		1001.2	83.2	79.4	77.9	32.4		84		5.2		1	0	0	10	11	0	0	0	8
Brahmanbaria	0000	32	1002.2		1003.3	79.2	77.0	76.1	30.7		91		5.6		0	0	1	24	5	0	0	0	0
	0300		1004.0		1005.1	84.0	79.1	77.0	31.8	+0.7	80	+1	5.2		1	3	1	18	5	1	0	0	1
	1200		1000.3		1001.4	84.0	79.8	78.0	32.9		83		5.0		1	0	1	12	8	3	1	0	4
Sylhet (P.B.O.)	0000	115	999.7		1003.7	77.1	75.8	75.0	29.9		95		6.3		0	2	7	3	0	0	1	1	16
	0300		1001.3		1005.2	82.2	78.2	76.4	31.1		83		6.5		2	5	13	4	0	0	0	0	6
	1200		997.2		1001.1	84.5	79.8	77.9	32.6		80		5.7		0	1	1	2	0	2	4	4	16
Srimangal	0000	69	1001.3		1004.0	76.9	75.8	75.2	30.0		95		2.9		0	0	0	0	0	0	0	0	30
	0300		1002.7	—2.8	1005.3	83.4	79.0	76.7	31.8	+0.3	81	—4	5.9	+1.0	1	1	9	12	1	1	2	1	2
	1200		998.7		1001.3	82.5	79.5	78.1	33.0		87		5.7		0	0	3	8	3	0	4	1	11
DACCA																							
Mymensingh	0000	62	1001.5		1003.6	79.3	77.7	77.0	31.7		93		5.1		0	0	3	7	1	0	0	0	19
	0300		1003.5	—1.7	1005.6	83.3	79.2	77.5	32.3	—0.2	83	—2	6.1	+0.1	0	0	2	26	0	0	0	0	2
	1200		999.5		1001.6	84.9	79.6	77.3	32.1		79		5.0		0	0	4	9	0	0	3	0	14
Jamalpur (R)	0000	63																					
	0300																						
	1200																						
Narayanganj	0000	26	1002.2		1003.1	80.3	77.9	76.9	31.6		89		7.0		0	0	6	12	0	0	0	0	12
	0300		1003.7	—2.3	1004.6	84.0	79.1	76.8	31.8	—0.7	80	—2	6.5	+0.4	0	0	8	13	4	0	0	1	4
	1200		1000.2		1001.1	84.8	79.4	77.0	31.9		78		6.1		0	0	2	13	7	1	0	0	7

(R) Register not received.

(c) Observations for 28 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Open.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Dacca—Contd.																							
Dacca (Tejgaon)	0000	32	1001.3		1002.4	79.1	77.7	77.2	31.8		94		6.5		0	1	2	15	1	1	0	0	10
	0300		1003.3		1004.4	81.9	78.9	77.7	32.4		87		6.8		1	1	1	15	5	2	0	0	5
	1200		999.9		1001.0	83.3	79.3	77.6	32.4		84		6.3		0	1	2	15	3	4	0	0	5
Faridpur	0000	46	1000.9		1002.5	80.1	78.7	78.2	32.1		93		5.8		1	0	2	12	10	0	0	0	5
	0300		1002.0	—2.8	1003.6	83.1	79.5	78.0	32.7	—0.6	84	+3	6.7	+1.7	2	1	2	11	10	0	0	0	4
	1200		999.4		1001.0	83.7	79.7	77.7	32.8		83		5.5		1	0	0	12	12	0	0	1	4
KHULNA DIVISION																							
Barisal	0000	11	1002.6		1003.0	79.8	78.4	78.0	32.6		94		5.5		1	0	3	1	2	0	0	0	23
	0300		1003.4	—2.9	1003.8	85.7	80.5	78.3	33.2	+1.3	81	—2	5.6	+0.3	1	0	2	7	3	0	0	0	17
	1200		1000.7		1001.1	83.5	79.6	77.9	32.8		84		5.1		1	0	1	5	4	0	0	0	19
Khulna	0000	16	1001.7		1002.3	79.3	78.2	77.9	32.0		95		4.7		0	1	2	0	0	0	0	0	27
	0300		1003.2	—2.9	1003.8	83.5	79.5	77.8	32.5	—0.1	83	+2	5.6	—0.1	1	0	2	4	2	0	0	0	21
	1200		1000.1		1000.6	82.7	79.0	77.4	32.1		84		5.4		0	1	1	4	3	0	0	0	21
Satkhira	0000	16	1001.6		1002.2	79.0	78.2	77.8	32.6		96		5.8		0	0	0	1	0	0	0	0	29
	0300		1003.1	—2.7	1003.7	84.5	80.2	78.1	33.2	—0.5	81	—2	6.2	+1.2	2	0	0	2	0	1	0	0	25
	1200		999.6		1000.1	83.8	79.8	77.7	33.1		82		6.9		1	0	0	1	0	0	0	0	28
Jessore (P.T.)...	0000	26	1000.8		1001.7	79.0	78.1	78.0	32.3		96		5.7		0	0	12	4	5	0	1	0	8
	0300		1002.6	—3.0	1003.5	83.1	79.6	77.2	32.8	—0.5	85	+1	6.4	+1.3	0	0	6	7	13	0	1	1	2
	1200		999.6		1000.5	83.8	80.5	79.2	34.1		85		5.9		1	0	2	2	24	0	0	0	1
RAJSHAI DIVISION																							
Pabna	0000	48	1000.5		1002.1	80.1	78.6	78.4	32.7		94		4.9		0	1	10	7	0	1	0	2	9
	0300		1002.2	—	1003.8	84.2	80.2	78.6	33.4	+0.1	83	+2	5.6		0	1	8	12	6	1	0	2	0
	1200		998.6		1000.2	84.5	79.8	77.9	32.4		81		5.2		0	0	12	11	0	0	0	2	5
Ishurdi	0000					79.3	78.3	77.8	32.3		95		6.2		4	4	11	7	4	0	0	0	0
	0300					83.8	79.8	78.1	33.0		83		7.1		2	3	11	7	4	3	0	0	0
	1200					84.3	79.2	77.2	31.7		80		6.5		1	1	15	9	3	0	1	0	0
Sirajgonj	0000	51	1000.9		1002.7	79.7	78.4	78.0	32.6		94		4.3		0	0	1	10	0	0	0	0	19
	0300		1002.7		1004.4	84.2	80.2	78.3	33.4		83		5.3		0	2	0	12	0	0	0	1	15
	1200		998.7		1000.4	84.4	80.1	78.3	33.1		82		5.6		0	1	0	2	4	0	0	1	22
Rajshahi (R)	0000																						
	0300																						
	1200																						
Bogra (P.B.O.)	0000	65	1000.5		1002.7	79.4	78.2	77.8	32.4		95		6.1		0	0	11	6	0	0	1	1	11
	0300		1002.1	—2.4	1004.3	84.2	80.2	78.4	33.4	+0.5	83	—1	5.8	+0.8	1	2	14	8	0	2	0	0	3
	1200		998.4		1000.6	84.4	80.1	78.4	33.1		82		5.8		0	1	6	12	3	1	0	2	5
Dinajpur	0000	123	998.5		1002.7	79.2	77.8	77.0	31.9		93		4.0		0	2	3	0	0	0	0	0	25
	0300		999.6	—2.6	1003.8	84.8	79.7	77.4	32.3	0.0	80	—5	4.2	—0.9	0	0	7	0	0	0	0	0	23
	1200		996.3		1000.5	85.3	80.0	77.7	32.6		79		4.0		0	0	0	0	0	0	0	0	30
Rangpur	0000	113	1000.0		1003.9	79.0	77.7	77.2	31.8		94		4.7		1	6	11	3	1	0	0	0	8
	0300		1001.3		1005.1	83.5	79.7	78.2	32.9		84		4.9		2	3	12	11	1	1	0	0	0
	1200		997.2		1001.0	84.9	80.3	78.4	33.1		81		4.3		0	4	6	15	0	0	0	0	5

(R) Register not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1961.

Division and Station	Hours of observation	Height of bar cistern above mean sea level	Mean Pressure: Station level reduced to standard temperature and gravity	Departure from normal	Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud Amount: Mean amount	Departure from normal	Wind Directions Number of Observations From: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
KASHMIR																							
Jammu (x)	0300	1200																					
	1200																						
LAHORE																							
Lahore (P.B.O.)	0000	702	977.5		1001.4	79.7	77.0	75.8	30.5		88		2.2		0	1	0	7	0	2	0	0	20
	0300		978.9	−2.0	1002.8	83.3	77.9	75.5	30.2	+5.0	77	+11	2.1	+0.7	0	1	1	8	0	1	0	0	19
	1200		976.1		999.5	91.5	79.9	74.7	29.5		60		2.2		1	2	3	2	0	1	1	0	20
,, (Cantt.)	0000	709	976.6		1000.8	79.5	77.7	77.1	31.6		92		2.5		3	1	2	6	1	1	2	0	14
	0300		978.1	—	1002.2	82.9	78.7	76.8	31.6	—	82	—	2.7	—	0	2	5	9	4	2	1	1	6
	1200		975.3		998.9	91.2	80.3	75.6	30.4		60		2.8		2	6	4	6	0	1	4	4	3
Sialkot (R)	0000	830																					
	0300																						
	1200																						
RAWALPINDI																							
Jhelum	0000	767	974.9		1001.0	78.5	76.3	75.2	30.0		90		2.6		3	1	4	2	0	0	2	1	17
	0300		976.5	—	1002.4	82.2	77.0	74.7	29.3	—	79	—	3.1	—	2	2	6	7	0	0	4	0	9
	1200		973.3		998.8	90.7	79.8	74.9	29.8		60		2.6		1	1	4	7	5	3	2	0	7
Chaklala	0000	1667	946.3		1002.5	75.2	73.2	72.3	27.1		91		3.2		2	4	7	2	1	1	0	1	2
	0300		947.4	—	1003.3	78.8	74.4	72.5	27.2	—	81	—	3.4	—	1	8	5	7	1	0	0	1	7
	1200		945.0		999.7	87.6	77.2	72.7	27.4		62		2.2		0	4	3	6	2	2	4	1	8
Rawalpindi	0000	1675	(b) 945.5		(b) 1001.9	(b) 76.4	(b) 73.7	(b) 2.6	27.3		88		(b) 2.2		5	2	2	3	b 0	0	1	1	b 15
	0300		946.7	−2.3	1002.6	80.3	75.1	3.0	27.6	+5.8	78	+20	3.6	+2.0	4	5	9	3	2	0	1	1	5
	1200		944.1		999.0	89.0	78.8	75.3	29.5		63		2.5		0	2	11	3	1	1	4	0	8
Campbellpur (R)	0300	1175																					
	1200																						
SARGODHA																							
Khushab	0000	616	d 979.6		(d) 1000.5	81.8	77.2	75.1	29.8		81		0.8		0	1	13	1	0	0	0	0	9
	0300		b 981.2	−2.8	b 1002.1	84.7	78.2	75.4	30.0	+6.2	73	+9	1.0	−0.1	0	0	17	1	0	0	1	0	11
	1200		978.1		998.4	96.4	79.3	71.1	26.3		45		0.6		0	0	15	2	1	0	0	0	12
Sargodha	0000	617	979.9		1000.9	79.1	76.4	75.3	29.7		89		1.2		0	6	12	1	2	1	0	0	8
	0300		981.3		1002.2	83.5	78.2	75.7	30.5		77		1.3	—	0	4	12	3	3	3	1	0	4
	1200		978.4		998.9	95.3	79.6	72.2	27.2		49		2.0		0	2	12	7	4	4	1	0	0
Mianwali (R)	0000	679																					
	0300																						
	1200																						
Lyallpur	0000	605	980.4		1000.9	80.3	76.5	74.7	29.4		84		0.9		1	2	0	2	0	0	0	0	25
	0300		d 981.5	−2.2	d 1002.0	83.2	77.4	74.8	29.5	+5.9	76	+12	1.3	−0.2	1	2	1	3	3	0	0	0	20
	1200		978.3		998.4	94.7	78.4	70.4	25.8		67		2.5		0	6	1	7	7	0	0	0	9
MULTAN																							
Montgomery	0000	558	981.3		1000.4	80.0	76.2	74.3	29.1		84		0.7		1	4	0	5	1	3	0	0	16
	0300		983.5	−1.9	1002.3	84.6	77.6	74.4	29.2	+3.3	72	+3	0.8	−0.1	0	0	0	4	0	13	0	0	13
	1200		980.4		998.8	94.4	79.4	72.7	27.4		49		1.4		0	4	1	3	1	5	0	2	14
Multan (P.B.O.)	0000	404	986.4		999.8	82.1	76.4	73.7	28.5		76		0.8		0	1	1	1	15	2	0	0	10
	0300		987.6	—	1001.3	85.3	78.1	74.9	29.6	—	72	—	1.0	—	2	3	2	4	15	3	1	0	0
	1200		985.1		998.5	96.2	79.0	70.9	26.0		45		1.6		1	2	1	4	14	6	0	0	2

(R) Register not received. (b) Mean for 29 days. (d) Mean for 27 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
MULTAN—contd.																							
Multan (Surf.)	0300	413	987.2	—2.7	1001.2	85.3	78.8	75.9	30.7	+3.2	73	+4	1.5	+0.9	1	0	1	0	7	0	6	0	15
	1200		984.5		998.2	96.2	80.9	74.3	29.1		49		1.7		2	0	0	0	11	3	6	0	8
Leiah	0000	487	*		*	*	*	—	—		—		0.5		2	1	1	3	14	7	0	0	2
	0300		*	—	*	88.3	78.6	73.2	29.0	—	63	—	0.7	—	1	1	1	6	14	3	1	1	2
	1200		*		*	97.2	81.6	74.8	29.7		50		0.9		1	2	1	4	15	4	1	0	2
BAHAWALPUR																							
Khanpur (P.B.O.)	0000	290	990.2		1000.2	80.4	76.9	75.3	30.0		85		1.2		0	4	0	1	3	15	3	0	4
	0300		991.8	—	1002.1	85.0	78.3	75.9	30.0	—	73	—	1.2	—	2	4	2	2	1	15	2	1	1
	1200		988.8		998.4	95.6	79.8	72.7	27.6		47		2.1		3	3	2	0	0	11	8	2	1
Bahawalpur	0300	384	988.1	—2.6	1001.1	86.3	*	*	—	—	—	—	1.0	+0.6	2	4	1	3	3	3	0	3	11
	1200		*		*	97.2	*	*	—		—		0.7		0	0	1	0	0	3	0	0	26
Fort Abbas	0000	475	*		*	80.2	76.1	74.3	28.8		81		0.1		4	2	2	0	9	3	1	0	9
	0300		986.8	—	1002.9	85.5	78.5	75.2	30.1	—	72	—	0.4	—	2	3	2	1	7	8	6	0	1
	1200		983.3		999.2	96.0	79.9	72.3	27.5		48		0.5		3	4	1	0	4	6	4	0	8
PESHAWAR																							
Chakdara	0000	2197	926.9		1000.4	73.0	68.8	65.8	22.4		80		0.2		3	0	2	0	0	0	0	0	25
	0300		928.4	—	1001.5	77.7	7 5	69.0	24.8	—	76	—	0.2	—	1	0	4	0	2	0	4	0	19
	1200		925.3		996.5	88.6	77.0	70.7	27.0		59		0.1		0	0	0	0	17	0	10	0	3
Peshawar	0000	1177	961.2		1000.8	78.9	75.2	73.5	28.2		83		2.0		5	8	1	0	0	0	0	7	9
	0300		962.6	—3.0	1002.2	81.1	76.2	73.9	28.6	+8.5	78	+18	2.5	+1.0	5	3	0	0	0	0	2	12	8
	1200		959.2		997.9	92.3	79.0	72.9	27.8		53		2.7		3	22	3	0	1	0	0	1	0
Risalpur	0000	1047	965.1		1000.2	79.3	75.9	74.2	29.0		85		3.4		0	7	8	3	0	0	0	0	12
	0300		966.7	—	1001.8	82.5	77.0	74.6	29.2	—	77	—	3.7	—	0	2	11	5	0	2	1	0	9
	1200		963.4		997.8	93.6	78.7	71.7	26.7		49		2.3		0	9	18	2	1	0	0	0	0
Haripur	0300	1757	943.3	—	1002.1	78.6	73.1	70.4	25.6	—	76	—	5.1	—	0	1	0	4	0	24	0	1	0
	1200		941.1		998.7	89.6	77.7	72.4	27.6		58		2.9		0	0	0	10	0	15	0	5	0
Kohat (P.A.F.)	0000	1683	945.2		1001.4	80.2	73.7	70.7	25.7		73		2.1		3	1	2	1	0	1	1	15	6
	0300		946.6	—	1002.4	82.8	74.3	70.4	25.5	—	67	—	2.5	—	1	2	2	3	0	0	0	8	14
	1200		943.7		998.6	92.1	75.7	68.1	23.6		46		3.0		2	2	2	11	3	2	1	3	4
D. I. KHAN																							
Bannu	0000	1263	(b) 957.6		(b) 1000.1	81.5	76.2	73.7	28.4		77		1.5		0	0	0	0	0	0	0	0	30
	0300		959.0	—	1001.1	84.2	77.6	74.3	29.4	+7.9	73	—13	2.4	+1.5	0	1	1	1	0	0	0	0	27
	1200		(b) 956.0		(b) 997.2	95.9	81.7	75.7	30.0		53		1.4		0	0	8	17	2	0	0	0	3
D. I. Khan	0000	570	980.5		999.8	80.8	(j) 76.8	(j) 75.6	29.7		83		0.9		1	1	0	0	0	0	0	0	28
	0300		982.0	—2.7	1001.3	84.4	(n) 77.6	(n) 75.2	29.2	+3.9	72	+3	1.1	+0.3	0	8	0	0	0	0	0	0	22
	1200		978.7		(b) 997.5	b 98.6	*	—	—		—		0.1		3	3	2	0	3	0	0	0	19

(b) Mean for 29 days. (j) Mean for 21 days. (n) Mean for 17 days. (x) Data rejected. (R) Data not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1961.

Division and Station	Hours of observation	Height of bar cistern above mean sea level	Mean Pressure: Station level reduced to standard temperature and gravity	Departure from normal	Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud Amount: Mean amount	Departure from normal	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
QUETTA																							
Sibi	0000	441	985.8		1000.7	84.8	77.7	74.6	29.2		72		1.7		0	0	9	7	2	1	0	0	11
	0300		987.0	—1.5	1001.8	85.9	78.5	75.2	29.9	+9.4	71	+21	1.9	+1.4	0	0	6	13	4	1	0	0	6
	1200		983.4		997.7	102.2	81.1	71.2	26.6		38		2.6		0	1	1	7	9	10	2	0	0
KALAT																							
Nokkundi	0000	2220	926.5		1000.4	78.5	60.9	46.8	11.1		34		0.4		14	6	0	0	0	0	1	8	1
	0300		927.8		1002.0	82.6	63.0	47.9	11.7	+1.3	31	—2	0.5	+0.3	8	3	6	2	4	1	0	5	1
	1200		925.5		996.1	101.6	71.1	51.7	13.6		20		0.4		10	3	1	1	2	1	2	10	0
Turbat	0000	510	983.4		1000.8	81.5	75.4	72.4	27.3		74		1.9		0	0	0	1	0	5	10	1	13
	0300		984.5		1001.9	83.8	75.9	71.4	26.9	—	68	—	1.7	—	0	1	1	0	0	1	5	0	22
	1200		980.5	—	997.2	102.6	79.0	68.2	23.1		35		0.5		0	0	0	2	7	7	10	1	3
Jiwani	0000	185	995.8		1002.2	79.7	76.2	74.5	29.3		84		2.9		1	0	1	4	7	5	0	0	12
	0300		997.0	—	1003.4	81.5	77.0	75.1	29.7	—	82	—	4.2	—	1	3	2	5	6	6	0	0	7
	1200		994.5		1000.8	85.6	78.1	74.7	29.5		70		2.5		0	0	0	2	16	11	1	0	0
Pasni	0000	28	1000.9		1001.9	78.6	76.6	75.7	30.4		91		3.1		0	0	0	0	0	2	5	3	20
	0300		1002.0	—3.5	1002.9	81.7	77.7	76.5	30.6	+3.3	85	—1	4.2	+0.9	0	0	0	0	0	6	9	3	12
	1200		999.2		1000.3	86.9	79.6	76.3	31.1		71		2.2		0	0	0	3	15	12	0	0	0
KARACHI																							
Ormara	0000	15	1000.8		1001.3	80.2	78.4	77.5	32.4		92		4.8		0	0	1	1	0	4	18	0	6
	0300		1001.7	—	1002.2	82.8	79.3	77.8	32.6	+5.0	85	—1	4.6	—0.3	0	0	1	1	0	1	19	1	7
	1200		999.4		999.9	87.7	80.6	77.9	32.4		74		2.6		0	0	0	2	3	3	22	0	0
Lasbela (R)	0000	292																					
	0300																						
	1200																						
Karachi (Manora)	0000	13	1000.5		1001.0	79.6	75.3	73.3	28.0		81		5.7		1	2	0	0	0	3	14	6	4
	0300		1001.9	—3.9	1002.4	80.7	76.2	74.1	28.8	0.0	81	—5	5.5	+1.3	1	3	0	0	0	2	15	7	2
	1200		999.9		1000.3	85.9	81.3	79.3	34.4		81		5.3		0	1	0	1	1	5	19	3	0
Karachi (Mauripur)	0000	52	999.5		1001.3	80.3	78.3	77.7	32.2		92		4.1		0	1	0	0	0	4	13	3	9
	0300		1000.6	—	1002.4	81.4	78.8	77.8	32.4	—	89	—	5.2		2	2	0	0	0	3	13	5	5
	1200		998.7		1000.5	85.6	80.1	77.7	32.6		78		4.7		0	1	0	0	3	16	8	1	1
Karachi (City)	0300	20	1001.3	—	1002.0	82.6	78.9	77.3	32.1		84		5.4	—	2	2	0	0	1	4	18	2	1
	1200		999.3		1000.0	85.2	79.3	76.7	31.5		76		5.2		2	1	0	0	0	16	11	0	0
Karachi (Airport)	0000	73	998.8		1001.3	80.2	77.9	76.9	31.6		90		4.9		1	0	1	0	0	4	14	1	9
	0300		1000.3	—	1002.8	81.7	78.7	77.4	32.2	—	87		5.4		0	1	1	0	0	4	16	2	6
	1200		998.2		1000.7	85.4	79.3	76.1	31.4		76		5.3		1	0	1	2	2	16	6	1	1
Gadap	0300		x		x	80.4	77.7	76.5	31.2	—	88	—	5.4	—	0	2	1	0	0	14	12	0	1
	1200		x		x	81.3	78.6	75.9	30.6		75		5.2		0	3	0	0	2	16	9	0	0
HYDERABAD																							
Mithi	0000	96	998.5		1001.8	78.9	77.9	77.8	32.2	—	97		2.6		0	0	0	1	0	2	0	0	27
	0300		999.6	—	1002.9	81.1	79.4	78.7	33.6	—	93	—	4.0		0	0	0	1	0	5	0	1	23
	1200		996.9		999.8	87.6	82.2	79.4	35.1		79		3.1		0	0	0	0	0	13	1	1	15
Nagarparkar	0000	178	993.9		1000.0	79.2	77.5	76.3	31.4		92		4.2		0	0	0	0	1	4	3	8	15
	0300		995.1	—	1001.2	80.7	78.5	77.3	32.3	—	90	—	4.6	—	0	0	0	1	2	4	3	8	12
	1200		992.5		998.5	86.4	82.2	80.3	35.7		83		3.7		1	0	0	2	3	7	6	6	5

(x) Register not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb	%	%	oktas										
Umerkot	0000	55	998.4		1000.3	78.3	77.1	76.7	31.6		95		3.5		1	0	1	0	8	11	0	1	8
	0300		999.3		1001.8	80.9	78.4	77.1	32.1		89		5.3		2	0	1	0	12	11	0	2	2
	1200		997.1		998.9	89.8	80.9	77.3	31.8		68		5.1		2	0	1	0	7	12	4	1	3
Chhor	0000	19	1000.0		1000.7	78.6	76.9	76.2	31.1		92		4.3		1	1	0	0	1	8	0	0	19
	0300		1001.7		1002.4	81.2	78.3	76.9	31.6		87		5.2		2	1	1	0	3	16	1	0	6
	1200		998.5		999.5	89.4	79.9	75.9	30.5		65		5.2		1	1	1	3	5	14	1	1	3
Hyderabad	0000	98	997.2		1000.6	79.6	77.3	76.4	30.7		89		2.5		0	1	0	0	2	16	0	1	10
	0300		998.7	—3.0	1002.0	81.9	78.3	76.8	31.6	+6.4	84	+12	3.4	+2.1	1	1	0	0	3	16	1	0	8
	1200		995.9		999.4	90.4	80.2	75.8	30.9		64		3.7		1	2	0	2	3	17	0	1	4
Badin	0000	31	1000.1		1001.2	79.7	77.7	76.7	31.6		90		1.3		0	5	0	0	0	21	0	2	2
	0300		1001.7	—2.7	1002.8	81.1	79.4	78.4	33.5	+6.3	93	+16	1.4	—1.5	0	4	0	0	0	21	0	2	3
	1200		998.7		999.7	90.0	83.0	79.9	35.4		73		2.3		0	0	0	2	3	20	0	5	0
KHAIRPUR																							
Padidan	0000	153	994.7		1000.0	79.6	76.5	75.1	30.8		87		1.5		2	1	0	17	2	0	0	0	8
	0300		996.4		1001.6	82.3	77.8	75.6	30.5		81		2.2		3	2	0	19	3	2	0	1	0
	1200		993.6		998.7	95.6	79.2	71.0	26.6		47		2.6		2	6	0	21	1	0	0	0	0
Nawabshah	0000	124	996.8		1001.1	79.1	76.8	75.8	30.4		90		1.3		1	1	0	0	10	0	0	0	18
	0300		998.2		1002.5	82.0	78.4	76.8	31.5		85		2.2		1	1	0	0	17	0	0	0	11
	1200		995.7		1000.0	92.8	80.8	75.6	30.5		59		2.8		1	1	0	0	19	2	1	1	5
Sukkur	0300	221	994.0	—2.3	1001.5	84.8	78.6	75.6	30.6	+3.4	75	+2	2.0	+1.6	3	2	0	2	9	9	0	0	5
	1200		990.8		998.2	97.6	82.0	75.5	30.2		50		2.6		3	5	1	1	3	10	4	1	2
Kashmore	0000	255	*		*	81.4	73.5	68.9	24.6		67		0.9		0	1	0	0	0	0	0	0	29
	0300		993.1		1001.8	84.7	76.0	71.3	26.7		65		1.1		0	3	0	0	0	0	0	0	27
	1200		990.1		998.5	97.9	80.1	70.5	27.0		43		1.4		0	7	0	0	0	0	0	0	23
Jacobabad	0000	183	993.8		1000.1	83.3	80.6	79.5	34.4		89		0.8		0	4	1	14	5	2	0	2	2
	0300		995.4	—2.7	1001.7	85.3	80.9	79.0	34.0	+5.6	82	+9	1.0	+0.5	0	0	8	11	8	0	0	1	2
	1200		992.4		998.5	97.0	84.8	80.2	35.2		59		1.8		1	0	3	9	15	0	2	0	0
JUNAGADH																							
Veraval	0000	26	(b)		(b)	(c)	(c)	(m)					(b)		(b)								
	0300		1004.1		1005.1	80.1	76.6	75.3	29.6		85		6.0		0	2	0	0	4	7	11	3	2
	1200		(g) 1002.6		(g) 1003.6	(g) 81.9	(c) 76.9	(g) 74.9	29.4		79		(g) 5.8		(g) 0	0	0	0	4	5	12	0	2
AFGHANISTAN																							
Jalalabad (x)	0000																						
	0300																						
	1200																						
ARABIA																							
Muscat (x)	0300	20																					
	1200																						
HILL STATIONS: KASHMIR																							
Srinagar (x)	0000	—																					
	0300																						
	1200																						

(x) Data not available. (c) Mean for 28 days. (g) Mean for 24 days. (m) Mean for 15 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Gulmerg (x)	0300	—																					
	1200																						
Gurez (x)	0300	—																					
	1200																						
Sonamarg (x)	0300	—																					
	1200																						
Dras (x)	0300	—																					
	1200																						
Kargil (x)	0300	—																					
	1200																						
Leh (x)	0000																						
	0300	--																					
	1200																						
Skardu (x)	1000	7250																					
	0300																						
	1200																						
Misgar	0000	10190	*		*	50.9	40.7	28.2	5.5		43		1.4		0	0	1	0	0	0	6	1	22
	0300		699.0	—	3092.5	55.5	41.9	28.7	5.5	—	36	—	1.4		1	0	2	0	0	0	4	2	22
	1200		696.3		3058.5	68.6	48.3	26.7	5.2		22		2.1		0	1	7	13	0	0	8	0	1
Aliabad (x)	0300	—																					
	1200																						
Gilgit (x)	0000	4590																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	782.1		1457.7	59.8	58.1	56.8	15.9		91		4.3		0	0	0	4	0	2	2	17	5
	0300		782.8	—1.7	1462.3	62.4	59.5	57.5	16.3	+3.3	85	+18	5.1	+2.9	1	1	1	3	0	0	10	5	9
	1200		781.6		1443.0	67.1	63.6	61.8	18.8		83		6.2		1	0	1	1	1	3	8	13	2
PESHAWAR																							
Drosh	0000	4806	848.1		1444.6	73.4	64.3	58.4	16.9		60		1.4		0	0	0	0	0	2	0	0	28
	0300		849.1	—4.0	1455.2	73.5	64.7	59.1	17.3	+4.5	61	+3	2.1	+0.9	0	0	0	1	0	0	0	0	29
	1200		844.5		1406.2	89.4	70.2	58.6	17.4		37		2.6		0	0	0	0	0	30	0	0	0
Chorat	0000	4272	*		*	*	*	—	—		—		1.9		0	1	0	3	0	4	0	4	18
	0300		864.4	—2.9	1446.1	71.7	68.8	67.6	22.9	+7.3	86	+23	2.3	+0.8	0	1	0	10	1	2	0	1	15
	1200		862.9		1433.4	80.1	72.9	69.2	24.7		70		2.2		0	0	0	7	2	11	0	4	6
Kakul	0000	4214	866.3		1445.8	69.0	65.3	63.2	19.8		81		4.3		5	12	5	2	1	0	1	4	0
	0300		867.4	—	1458.0	72.7	67.9	65.0	21.3	--	78	—	3.8	—	4	2	5	1	10	5	1	2	0
	1200		865.3		1439.0	79.1	70.3	65.8	21.9		64		2.9		1	0	0	5	12	9	2	1	0
Balakot	0000	3226	x		x	70.5 (b)	67.0 (b)	65.4	21.2		84		3.0		x	x	x	x	x	x	x	x	x
	0300		x	—	x	71.3	68.2	66.3	21.8	—	85	—	2.5	—	x	x	x	x	x	x	x	x	x
	1200		x		x	81.7	73.5	69.0	24.8		67		3.5		x	x	x	x	x	x	x	x	x
Landikotal	0000	3503	886.5		1429.9	72.4	69.1	65.0	23.0		85		2.0		0	5	0	1	0	0	0	0	24
	0300		887.5	—	1442.7	76.6	70.2	65.5	22.7	—	72	—	2.3	—	0	4	0	2	0	0	0	0	24
	1200		884.9		1423.3	85.1	73.0	66.8	22.8		55		1.9		0	3	0	25	0	0	0	0	2

(x) Data not available. (b) Mean for 23 days. (*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Direction Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Parachinar	0000	5673	*		*	*	*	—	—		—		1.6		0	0	0	0	0	0	0	0	30
	0300		*		*	*	*	—	—	—	—	—	1.0	+0.4	0	3	0	0	0	0	0	0	27
	1200		*		*	*	*	—	—		—		3.6		0	1	0	21	0	1	0	1	6
D. I. KHAN																							
Miranshah	0000	3026	901.7		*	*	*	—	—		—		0.0		0	0	0	0	0	0	0	0	30
	0300		903.0		1448.4	79.9	70.8	67.1	22.1	+7.0	63	+11	0.5	—0.1	0	0	0	0	0	0	0	0	30
	1200		900.7		1436.9	91.3	74.6	66.9	22.4		45		1.5		0	10	0	0	0	0	0	0	20
Wana	0300	4503	*	—	*	73.4	65.6	60.1	18.3	+5.8	65	+11	1.5	+0.7	0	1	0	0	0	0	0	0	29
	1200		*		*	84.5	73.2	66.1	23.3		57		2.7		0	14	0	9	0	0	0	1	6
QUETTA																							
Fort Sandeman (P.T.)	0300	4614	855.7	—0.9	1463.1	75.5	65.1	58.4	17.0	+3.9	57	+6	0.6	0.0	3	3	1	1	0	1	1	1	19
	1200		852.6		1431.5	91.8	64.9	43.1	10.1		21		1.7		2	6	10	2	3	3	4	0	0
,, (P.B.O.)	0000	4615	854.5		1450.6	72.1	66.1	62.5	19.5		72		0.4		0	7	0	2	0	1	0	0	20
	0300		855.6	—	1462.7	75.8	67.2	61.8	19.0	—	63	—	0.8	—	0	7	1	1	0	2	2	0	17
	1200		852.1		1427.4	90.9	67.3	49.7	13.2		28		2.3		2	4	3	6	2	1	3	2	7
Hindubagh	0000	5909	816.9		1459.3	64.0	56.1	50.4	12.6		60		0.0		0	0	0	0	0	3	8	1	18
	0300		815.8		1442.6	70.1	58.6	50.4	12.7		51		0.2		0	0	4	0	0	1	11	1	13
	1200		812.6		1395.5	89.3	66.3	52.7	13.7		30		1.3		0	0	4	3	0	7	11	1	4
Loralai	0000	4699	850.0		1431.9	65.7	61.4	57.6	16.8		78		1.0		0	1	0	0	1	0	4	1	23
	0300		851.5		1446.5	71.5	64.7	59.4	18.0		69		1.5		1	5	0	0	0	1	6	10	7
	1200		848.8		1419.9	85.7	71.1	62.7	20.1		48		3.6		0	0	1	17	10	1	0	1	0
Harnai	0300												1.9		0	0	0	0	0	0	30	0	0
	1200												5.2		0	0	30	0	0	0	0	0	0
Quetta (Samungli)	0000	5213	836.2		1448.5	61.4	56.1	52.4	13.5		78		0.4		0	0	2	16	2	1	0	0	9
	0300		837.3		1458.1	65.8	58.0	52.1	13.7		63		0.6		0	0	4	10	0	1	1	0	14
	1200		834.5		1421.6	88.7	63.1	44.8	10.5		24		1.1		3	1	1	3	1	0	4	17	0

(*) Data rejected. (#) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1961

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mb. pressure level in Gpm.	Mean temperature of the air and humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total cloud amount: Mean amount.	Departure from normal.	Wind directions number of observations from— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Quetta (P.T.)	0300	5490	828.3	—3.8	1449.2	66.2	57.7	51.6	13.2	+3.0	60	+8	0.1	—0.2	0	0	0	0	2	0	0	0	28
	1200		827.0		1429.4	87.4	71.8	63.3	20.9		49		0.8		0	0	0	0	1	1	6	5	17
„ P.B.O.	0000	5560	826.3		1487.1	61.4	54.9	46.4	11.3		55		0.0		0	1	3	2	1	2	0	0	21
	0300		827.2		1495.1	70.2	57.9	49.0	12.0	—	48	—	0.5	—	1	7	7	6	0	3	0	0	6
	1200		825.3		1465.4	87.1	61.5	43.4	9.5		24		1.7		0	0	0	0	1	4	4	8	13
Chamen	0000	4311	862.3		1438.2	72.7	57.0	42.7	9.5		34		0.2		0	0	20	3	0	1	1	0	5
	0300		863.2	—3.1	1447.8	78.8	59.1	42.0	9.2	+1.3	28	—3	0.5	+0.3	0	2	5	9	2	1	3	0	8
	1200		860.1		1418.1	93.6	65.5	43.2	10.1		18		0.2		0	0	0	0	0	11	17	2	0
Nushki	0000	3416	*		*	75.7	61.1	49.8	12.5		42		0.0		1	1	18	0	0	0	0	1	9
	0300		894.4		1485.6	80.8	65.4	52.4	15.1	—	41	—	0.6	—	1	1	17	2	1	0	0	1	7
	1200		892.0		1476.2	98.0	73.6	61.6	18.3		33		0.6		0	0	0	1	0	0	19	10	0
Dalbandin	0000	2788	908.9		1425.1	72.3	57.4	44.1	10.1		38		0.4		3	8	6	1	1	0	3	0	8
	0300		910.3	—3.0	1443.1	77.0	59.1	42.8	10.1	+2.0	32	—2	0.6	+0.2	3	13	3	4	0	1	1	0	5
	1200		907.4		1439.8	99.9	70.4	50.2	13.4		21		0.9		1	3	6	3	5	7	3	0	2
KALAT																							
Kalat	0000	6616	794.6		1443.2	56.9	44.0	26.0	8.0		55		0.3		3	1	0	0	19	1	1	4	1
	0300		795.5	—3.5	1442.8	66.9	53.6	41.2	9.3	+0.6	39	—5	0.3	0.0	3	0	1	2	16	2	2	3	1
	1200		792.9		1397.3	81.9	67.5	59.7	4.8		19		1.2		9	1	1	0	2	2	1	14	0
Panjgur	0000	3177	898.0		1440.0	73.4	63.7	56.3	16.9		59		1.2		5	6	2	0	3	3	3	2	6
	0300		899.0	—2.0	1451.4	75.4	64.3	55.0	16.7	+2.7	53	0	0.9	+0.3	4	8	0	1	1	3	0	0	13
	1200		896.5		1446.2	94.8	64.9	48.5	10.1		16		1.5		5	2	0	2	0	5	2	13	1
AFGHANISTAN																							
Kabul (x)	0000	5955																					
	0300																						
	1200																						
Kandhar (x)	0300	3462																					
	1200																						

(x) Data not available. (*) Data rejected.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF SEPTEMBER, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
CHITTAGONG DIVISION																					
Rangamati	90.5		95	12	77.5		75	25	11.31		4.61	26	14		x		14	0	0	0	0
Cox's Bazar (P. T.)	84.5	—1.9	89	12,14	75.5	—0.4	74	7 days	25.61	+10.36	3.28	29	19	+4.6	x		5	0	0	0	0
Chittagong (Patenga)	86.8		92	12	77.2		75	6,11	6.92		1.19	12	10		x		9	0	0	0	0
Chittagong (P. T.)	86.6	—0.5	94	12	77.0	+0.6	75	4 days	6.45	—6.19	2.15	26	14	+1.0	x		4	0	0	0	0
Maijdi Court	85.9	—0.8	91	11,12	77.3	—1.0	71	19	20.65	+4.55	3.65	2	21	+5.0	x		1	0	0	0	0
Comilla	89.1	+0.5	95	13	76.7	—0.2	72	3	4.40	—6.95	0.88	27	10	—3.7	x		0	0	0	0	0
Brahmanbaria	89.0	—1.2	94	13	78.5	+2.0	76	26	4.64	—5.96	1.05	27	14	+0.9	3.4		6	0	0	0	0
Sylhet (P. B. O.)	89.1		94	12	76.7		74	26	18.41		4.72	29	18		x		11	0	0	0	0
Srimangal	90.4	+0.1	94	12	76.3	+1.0	75	6 days	8.81	—2.86	1.98	19	18	+2.1	2.8	+0.3	0	0	0	0	0
DACCA DIVISION																					
Mymensingh	88.8	+1.0	95	12,13	78.0	+0.2	76	6 days	5.28	—8.81	1.25	21	11	—3.7	x		1	0	0	0	0
Jamalpur (R)																					
Narayanganj	89.0	+0.3	94	11,12	79.2	+0.4	76	30	5.55	—4.21	1.27	21	11	—1.1	4.8	+1.9	6	0	0	0	0
Dacca (Tejgaon)	87.5		93	12	78.2		75	23	9.66		2.78	21	13		6.5		12	0	0	0	0
Faridpur	87.7	—0.1	92	10,11	78.6	+0.1	76	22	5.20	—4.06	1.54	22	12	0.0	3.7	0.0	0	0	0	0	0
KHULNA DIVISION																					
Barisal	88.0	—0.1	92	12,17	78.8	+0.6	76	22	8.73	—1.35	1.48	3,20	15	+0.8	x		0	0	0	0	0
Khulna	87.7	—1.3	93	11	78.9	+0.4	76	6,7	5.77	—2.15	1.76	4	11	—1.2	2.2	—0.4	0	0	0	0	0
Satkhira	89.2	—0.4	94	18	78.4	+0.1	76	7,22	5.65	—3.13	1.22	21	14	+1.8	0.2	—1.3	2	0	0	0	0
Jessore (P.T.)	87.9	—1.4	93	12	78.1	+0.6	75	22	4.77	—3.71	2.04	22	10	—2.0	3.3	+1.4	0	0	0	0	0
RAJSHAHI DIVISION																					
Pabna	88.9	—1.9	94	11,12,13	79.6	+3.2	77	22,29	4.66	—3.71	0.92	23	11	—0.1	x		18	0	0	0	0
Ishurdi	88.8		93	11,13	78.3		76	4 days	6.04		1.20	23	13		x		5	0	0	0	0
Serajganj	88.6		94	15	78.1		76	6 days	6.86	—2.83	1.57	23	13	+1.2	1.6		2	0	0	0	0
Rajshahi (R)																					
Bogra (P.B.O.)	89.8	+0.7	94	11,12,13	78.4	+0.5	75	23	5.27	—6.02	2.26	23	6	—6.6	2.6	+1.2	7	0	0	0	0
Dinajpur	90.9	+2.2	96	12,13	78.4	+0.5	74	20	5.17	—7.88	1.46	20	7	—5.5	x		7	0	0	0	0
Rangpur	90.0		96	13	78.2		76	23,24,28	5.88	—8.22	3.35	20	9	—3.9	2.2		3	0	0	0	0

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF SEPTEMBER, 1961.

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR																					
Jammu (x)																					
LAHORE																					
Lahore (P.B.O.)	94.1	—3.2	100	19,20,30	78.8	+5.7	75	4,5,9	2.86	+0.66	1.27	9	5	+2.5	1.9	+0.6	3	0	0	0	0
,, (Cantt.)	93.9	—	100	20	77.4	—	72	4,5	2.87	—	1.38	4	4	—	3.0	—	4	0	0	0	0
Sialkot (R)																					
RAWALPINDI																					
Jhelum	93.7	—	100	20,21	76.9	—	70	27	7.58	—	3.23	27	7	—	(j) 1.8	—	14	0	0	0	1
Chakiala	90.4	—	96	21	73.0	—	65	17	11.09	—	2.55	2	10	—	3.2	—	18	0	0	0	1
Rawalpindi	92.0	—1.4	97	21	74.7	+5.4	67	17	13.71	+9.82	4.01	1	6	+1.4	2.1	+0.8	13	0	0	0	2
Campellpur (R)																					
SARGODHA																					
Khushab	98.8	+0.2	103	19,20,21	79.2	+3.1	75	9,10,21	0.14	—1.24	0.14	8	1	—1.0	3.9	+0.2	0	0	0	0	0
Sargodha	97.6	—	104	19	78.0	—	74	21,30	0.20	—	0.20	4	1	—	5.0	—	6	0	0	0	0
Mianwali (R)																					
Lyallpur	*	—	—	—	78.9	+3.7	75	4 days	2.28	+0.79	1.04	5	3	+1.3	2.7	+0.7	3	0	0	0	0
MULTAN																					
Montgomery	97.9	—1.4	102	2	79.0	+3.1	76	30	0.22	—1.05	0.12	9	1	—0.6	x	—	4	0	0	0	1
Multan (P.B.O.)	99.6	—	104	19,30	80.8	—	76	30	0.25	—	0.25	9	1	—	c 5.9	—	4	0	0	0	0
,, (Surface)	99.6	+0.9	103	5 days	81.6	+3.9	77	8,30	0.23	—0.31	0.23	9	1	+0.3	(x)	—	3	0	0	0	1
Leiah	10.22	—	105	5 days	*	—	—	—	0.00	—	0.00	17	0	—	(x)	—	0	0	0	0	1
BAHAWALPUR																					
Khanpur (P.B.O.)	98.1	—	102	3,8	79.4	—	75	11	0.11	—	0.66	9	0	—	4.4	—	4	0	0	0	0
Bahawalpur	98.5	—1.9	104	4,5	80.3	+4.6	74	9	1.75	+1.62	1.75	9	1	+0.8	4.1	+1.0	0	0	0	0	0
Fort Abbas	99.5	—	105	3,19,30	79.6	—	77	5,10	2.30	—	1.50	5	3	—	2.9	—	0	0	0	0	0
PESHAWAR																					
Chakdara	91.8	—	96	1	72.0	—	69	10,28	2.04	—	1.51	8	2	—	(x)	—	2	0	0	0	0
Peshawar	94.6	—0.4	98	19,22	77.5	+5.7	71	8	1.82	+1.01	1.60	8	2	+0.5	1.9	+0.6	8	0	0	0	0
Risalpur	95.4	—	100	16,27	77.4	—	71	8	5.29	—	2.47	4	5	—	3.9	—	8	0	0	0	0
Haripur	91.9	—	97	26,27	72.7	—	68	27	11.91	—	3.74	2	9	—	b 5.3	—	1	0	0	0	0
Kohat	95.6	—	101	16	78.6	—	73	17	1.62	—	0.68	5	4	—	3.5	—	15	1	0	0	0
D. I. KHAN																					
Bannu	98.0	+0.1	102	20	79.8	+6.1	77	4 days	0.15	—0.48	0.15	4	1	0.0	1.1	—	0	0	0	0	0
D. I. Khan	100.2	+0.8	104	19.20	79.2	+3.6	75	8,30	0.05	—0.58	0.05	8	0	—0.9	1.1	—0.1	1	0	0	0	0
AFGHANISTAN																					
Jalalabad (x)																					

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF SEPTEMEER, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Visibility Code Figure 93 or less: Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
QUETTA																					
Sibi	103.7	—0.3	107	8,28	82.5	+3.6	75	9	1.59	+1.46	0.94	14	3	+2.7	2.9	—0.4	0	0	0	0	3
KALAT																					
Nokkundi	105.6	+4.6	111	13,14	75.1	+4.2	61	29	0.00	0.00	0.00		0	0.0	(x)		0	0	0	0	0
Turbat	105.0		110	14,27	(x)		x	—	0.00		0.00		0		(x)		0	0	0	0	0
Jiwani	89.2		93	15,19	78.5		73	30	0.00		Tr	8,20,21	0		6.7		0	0	1	0	0
Pasni	91.5	+2.3	96	2	76.2	+3.7	75	8 days	0.00	0.00	0.00		0	0	7.5	+1.5	0	0	0	0	0
KARACHI																					
Ormara	91.1	+4.7	97	19,20	79.7	+3.4	74	30	0.00	—0.01	Tr.	14,21, 22	0	0.0	8.0	—1.3	0	0	0	0	0
Lasbela (N.R.)																					
Karachi (Manora)	89.5	+3.9	96	18	78.4	+1.7	70	15	6.01	+5.49	2.27	11	7	+6.5	(x)		5	0	0	0	0
Karachi (Mauripur)	89.4		95	19	79.4		73	10	4.78		2.92	10	5		6.0		5	0	0	0	0
Karachi (City)	88.8		94	18,19	79.3		74	10	9.33		5.10	11	7		5.0		5	0	0	0	0
Karachi (Airport)	89.2		94	19	78.6		75	14	6.55		3.18	11	7		6.5		5	0	0	0	0
Gadap	90.4		95	1	77.5		74	16	5.92	—	3.00	13	4	—	5.2		5	0	0	0	0
HYDERABAD																					
Mithi	92.1		100	30	77.3		74	15,25	10.77		5.42	13	7		1.1		0	0	0	0	0
Nagarparkar	89.1		93	12,17,30	x		x	—	23.17		13.15	13	10		x		0	0	0	0	0
Umerkot	92.6		97	5,12,30	77.2		74	24,25	5.12		3.83	13	4		x		0	0	0	0	0
Chhor	92.2		97	12	77.6		75	4 days	4.98		2.26	13	4		3.1		8	0	0	0	0
Hyderabad	94.1	—3.2	101	12	79.0	+2.6	76	14,15	1.52	+0.89	0.50	14	5	+4.2	2.7	—4.6	2	0	0	0	0
Badin	94.3	+0.2	98	11,17	79.1	+1.9	76	14	6.85	+5.96	2.50	13	6	+5.1	x		0	0	0	0	0
KHAIRPUR																					
Padidan	98.7		103	3.6,22	78.4		75	23,30	1.63		1.08	6	3		6.2		2	0	0	0	0
Nawabshah	96.7		103	22	78.1		75	15,28,30	1.63		0.63	9	4		3.7		6	0	0	0	0
Sukkur	103.7	+3.3	105	4 days	81.0	+2.3	78	27	0.00	—0.02	0.00	8,10	0	—0.1	x		0	0	0	0	0
Kashmore	98.0		103	19	78.4		73	15	0.00		0.00	9	0		x		4	0	0	0	0
Jacobabad	99.3	—3.0	103	8	82.1	+5.1	77	8	0.24	0.07	0.19	11	1	+0.7	5.9	+1.4	4	0	0	0	1
JUNAGADH																					
Veraval	x		x		x		x		0.31		0.25	4	1		x		0	0	0	0	0
ARABIA																					
Muscat (x)																					
HILL STATIONS																					
KASHMIR																					
Srinagar (x)																					
Gulmarg (x)																					
Gurez (x)																					
Sonamarg (x)																					
Dras (x)																					
Kargil (x)																					
Leh (x)																					
Skardu (x)																					

(x) Data not available.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF SEPTEMBBR, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR— (*continued*)																					
Misgar	75.5	—	83	2,3	48.6	—	41	27,28	0.00	—	0.00	—	0	—	2.8	—	0	0	0	1	0
Aliabad (x)																					
Gilgit (x)																					
RAWALPINDI																					
Murree	69.9	—2.4	75	20,21	57.1	+2.3	54	28	11.88	+6.46	2.38	16	12	+4.8	4.8	+1.5	8	2	17	0	0
PESHAWAR																					
Drosh	94.8	+6.8	100	16	71.5	+7.1	65	9	0.23	—0.46	0.22	9	1	—0.9	4.7	+1.5	3	0	0	0	0
Cherat	84.1	+0.1	92	13	68.0	+1.9	64	8, 9	6.75	+4.68	3.84	8	6	+3.1	(x)	—	0	0	3	0	0
Kakul	82.7	—	87	20	67.5	—	63	10	7.49	—	2.06	2	14	—	(x)	—	10	1	0	0	0
Balakot	87.5	—	91	5 days	68.0	—	63	17,20,29	6.61	—	1.53	16	10	—	(x)	—	6	0	1	0	0
Landikotal	89.5	—	95	15,27	70.3	—	66	26	0.02	—	0.02	3	0	—	(x)	—	0	0	2	0	0
Parachinar	84.1	2.9	87	1,2	63.3	+4.7	60	26	3.41	+1.30	1.05	8	6	+1.0	2.2	+0.1	0	0	0	0	0
D. I. KHAN																					
Miranshah	93.2	+1.5	97	12	75.3	+4.2	66	9	0.14	—0.59	0.09	9	0	—1.7	*	—	0	0	0	0	0
Wana	91.1	+1.5	96	20,20	67.0	+5.8	59	30	0.48	—0.01	0.33	3	2	+0.6	1.7	—	0	1	0	0	0
QUETTA																					
Fort Sandeman (P.T.)	94.7	+2.0	99	1,2,4	71.4	+5.2	64	29,30	0.51	+0.19	0.47	11	1	+0.3	x	—	8	0	0	0	0
For Sandeman (PBO)	94.0		98	1,4	70.4		61	29	0.33	—	0.26	11	1	-	2.7	—	8	0	0	0	0
Hindubagh	91.4		96	16	*		*	—	0.00	—	0.00	—	0	—	4.9	—	0	0	0	0	0
Loralai	90.4		96	27	46.5		42	30	0.69	+0.50	0.44	8	2	+1.5	2.2	—	0	0	0	0	0
Harnai									2.67	+1.73	1.08	14	5	+3.6	x	—	0	0	0	0	0
Quetta (Samungli)	91.8		96	1,3	57.9		39	30	0.00		Tr.	14	0		4.5	—	1	0	0	0	1
Quetta (PT)	90.7		95	1	57.8		42	29,30	0.00		0.00	—	0		2.3	+0.7	0	0	0	0	0
" (PBO)	91.9		96	1	62.5		51	28,30	0.49		0.49	14	1		3.0		2	0	6	0	0
Chaman	95.3	+4.5	100	2,14,15	(b) 65.0	+1.3	57	30	0.00	—0.03	0.00	—	0	—0.1	x		0	0	0	0	0
Nushki	100.9		107	14,15	74.6		63	30	0.00		0.00	—	0		x		0	0	0	0	0
Dalbandin	102.9	+3.6	108	14	70.0	+8.4	57	29,30	0.10	+0.10	0.06	21	1	+1.0	4.2	+1.0	1	0	0	0	0
KALAT (SOUTH)																					
Kalat	86.4	+2.4	93	2	55.8	+7.3	40	30	0.19	+0.10	0.11	8	1	+0.8	x	—	0	0	0	0	0
Panjgur	97.0	+1.3	102	14	71.0	+6.0	57	30	0.05	+0.01	0.05	15	0	—0.2	x	—	0	0	0	0	0
AFGHANISTAN																					
Kabul (x)																					
Kandahar																					

(x) Data not available. (*) Data rejected.

REGD. No. S. - 1452

PAKISTAN WEATHER REVIEW, 1961

MONTHLY WEATHER REPORT

October

(PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN)

Chief Features:

1. Vigorous rainfall activity in East Pakistan in the beginning of the month and in Chittagong division during the last week.

2. Fairly widespread thundershowers in some of the northern divisions of West Pakistan in the beginning of the first week, the end of the second week and at the end of the month.

East Pakistan

Last month's depression over Madhya Pradesh (India) gradually recurved towards northeast and passed away as a shallow low across Assam by the 4th evening. It caused local falls on the 1st and fairly widespread rain over the province with locally heavy falls in the northern districts on the 3rd and the 4th when Rangpur recorded 8" of rainfall on 3rd and 4" on the 4th. Thereafter scattered rainfall continued in the province during the first fortnight under the influence of a well marked low which moved away westwards across west-central and adjoining northwest Bay of Bengal. Towards the end of the fortnight, however, an easterly low pressure uave caused local rain in Rajshahi division on the 12th, firaly widespread rain or thundershowers in East Pakistan on the 13th and again local rain in Rajshahi division on 14th and 15th. Rangamati and Bogra recorded heavy amounts of 4" and 3" of rain respectively on the 13th.

The weather during the earlier part of the second fortnight was influenced by the passage of a westerly low pressure wave which moved across the northern parts and caused local to fairly widespread rainfall in the province between the 16th and the 18th. Satkhira recorded 4" of rain on the 18th. Later the weather was influenced by a low pressure wave which entered into the north Andaman Sea on the 2nd and concentrated into a depression by the 25th after reaching northeast Bay of Bengal. It crossed Chittagong coast and moved away northeastwards as a low across Assam. Under its influence fairly widespread rain or thundershowers occurred between the 24th and 26th in Dacca and Khulna divisions and scattered mainly in the Chittagong division on the 18th, 19th and the 26th. Cox's Bazar recorded 4" on the 24th and 6" on the 26th while Chittagong had 5" on the 25th.

The total rainfall during the month was in moderate excess in Rajshahi division, in slight defect in Chittagong division, in moderate defect in Dacca division and normal elsewhere. Averaged over the region, it was normal.

The mean maximum and the mean minimum temperatures, the mean relative humidity were all normal over the region.

Skies were clouded more than usual throughout the region.

West Pakistan

Scattered rainfall in Rawalpindi division on the 1st and in Peshawar division on the 4th in association with the passage of a low pressure wave across the north of the province. Murree recorded the heaviest rain of 1½" on the 1st. Weather was otherwise dry during the first week.

A western disturbance which moved across the northern divisions during the beginning of the second week caused fairly widespread thunderstroms or showers in Rawalpindi division on the 9th and the 10th and scattered to local in Peshawar division between he 8th and the 10th and in Lahore division only on the 10th. Another western disturbance that moved towards the end of the first fortnight caused fairly widespread to widespread rain or thundershowers in Peshawar and Rawalpindi divisions on the 14th and in Lahore division on the 15th scattered rain or thundershowers were also reported from Rawalpindi and Sargodha divisions on the 15th. The chief amounts of rainfall recorded at Peshawar and Cherat were 3/4" each on the 14th and Jhelum on the 15th.

The weather was dry during the rest of the month except towards the end when the passage of a complex western disturbance caused widespread thunderstorms or showers in the Lahore, Rawalpindi and Sargodha divisions and scattered to local elsewhere in the northern divisions between the 29th and the 31st and only in the Peshawar divisions on the 27th and the 28th.

The total rainfall during the month was in large defect over the region outside Lahore, Rawalpindi, Peshawar and Dera Ismail Khan division,s where it was in large excess. Averaged over the region it was in large excess.

The mean maximum temperature was below normal in Lahore, Rawalpindi and Kalat divisions, and normal elsewhere.

The mean minimum temperature was below normal in Kalat division, above normal in Lahore, Multan and Behawalpur divisions and normal over the rest of the region.

The mean relative humidity was in defect in Quetta division, in excess in Lahore, Rawalpindi, Sargodha, Peshawar, Hyderabad and Khairpur divisions and normal elsewhere.

Skies were clouded normally in Lahore and Peshawar divisions more than usual in Rawalpindi division and less than usual elsewhere.

Table I contains the divisional means of rainfall, temperature, relative humidity and the cloud amount for the 16 divisions of Pakistan. These means are based on the observations at the stations where monthly means are given in the subsequent tables.

(K. U. SIDDIQUI)
for *Director,*
Meteorological Services

TABLE I.—DIVISIONAL MEANS FOR OCTOBER, 1961.

Division	PRECIPITATION				DEPARTURE FROM NORMAL OF				
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	03 hrs. G. M. T.		
							Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	Mb.	%	
EAST PAKISTAN									
Chittagong	6.29	7.15	—0.86	—12	0.0	+1.2	+0.5	0	+1.1
Dacca	4.16	5.48	—1.32	—24	+0.6	+0.6	+0.3	+2	+1.2
Khulna	4.56	4.45	+0.11	+2	—0.7	+0.9	+0.3	+3	+1.2
Rajshahi	6.36	4.92	+1.44	+29	—0.4	+1.6	0.0	—1	+0.9
Mean	5.44	5.62	—0·18	—3	—0.1	+1.1	+0.3	+1	+1.1
WEST PAKISTAN									
Kashmir (x)									
Lahore	0.96	0.24	+0.72	+300	—3.8	+4.5	+1.9	+12	0.0
Rawalpindi	2.51	1.08	+1.43	+132	—3.1	—0.6	+1.1	+13	+0.7
Sargodha	0.00	0.13	—0.13	—100	—0.1	—0.1	+2.1	+9	—0.2
Multan	0.00	0.08	—0.08	—100	—1.0	+2.4	—0.7	—2	—0.1
Bahawalpur	0.00	0.06	—0.06	—100	—0.9	+2.4	*	*	—0.4
Peshawar	1.46	0.75	+0.71	+95	+0.9	+0.1	+2.0	+8	+0.1
D. I. Khan	0.00	0.07	+0.38	+543	0.0	+1.1	+1.3	+3	—0.1
Quetta	0.00	0.10	—0.10	—100	—0.5	—0.6	—0.7	—9	—0.5
Kalat	0.00	0.03	—0.03	—100	—3.9	—2.6	—2.2	—12	—0.7
Karachi	0.00	0.02	—0.02	—100	+1.1	—0.2	—0.5	—3	—1.1
Hyderabad	0.00	0.03	—0.03	—100	+1.1	+0.7	+1.9	+9	—0.7
Khairpur	0.00	0.02	—0.02	—100	—1.1	+1.7	+1.7	+7	—0.3
Mean	0.27	0.16	+0.11	+69	—1.0	0.0	+0.1	—1	—0.4
Junagadh (x)									

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
CHITTAGONG DIVISION																							
Rangamati	0000	208	1003.4		1010.6	76.3	74.7	73.8	28.7		93		5.7		7	0	2	5	11	1	2	3	0
	0300		1005.3		1012.4	82.1	77.4	75.2	30.0		81		4.7		7	4	3	1	12	3	0	1	0
	1200		1001.9		1009.1	82.2	77.6	75.4	30.2		81		x		7	0	2	0	16	0	3	2	1
Cox's Bazar	0000	38																					
	0300		1009.8	—0.5	1011.1	82.3	77.9	75.9	30.6	+0.3	82	+2	3.7	+0.3	4	3	4	6	8	3	1	2	0
	1200		1006.7		1008.0	81.5	77.8	76.3	30.8		85		3.7		3	0	0	3	5	9	3	8	0
Chittagong (Patenga)	0000	20	1008.8		1009.5	76.3	74.9	74.5	28.9		95		5.0		4	3	6	7	1	0	1	0	9
	0300		1010.7		1011.4	81.8	77.3	75.2	30.0		81		4.6		1	9	2	4	2	1	0	0	12
	1200		1007.5		1008.2	82.6	77.7	75.5	30.3		79		4.8		0	1	1	2	3	7	5	6	7
Chittagong (P.T.)	0000	46																					
	0300		1009.5	—0.7	1011.1	82.5	77.4	75.0	29.8	+0.2	7[illegible]	—4	4.8	+1.2	3	10	2	5	2	1	0	0	8
	1200		1006.5		1008.1	81.7	77.3	75.1	30.0		82		4.1		1	0	1	1	3	7	5	5	8
Maijdi Court	0000	25	1008.7		1009.6	76.6	75.9	74.8	30.2		95		4.3		1	3	0	3	0	0	1	0	23
	0300		1010.5	—0.3	1011.4	81.1	76.9	75.1	29.7	—0.9	82	—1	4.3	+1.3	3	3	1	3	0	0	0	2	19
	1200		1007.1		1007.9	81.2	77.1	75.3	29.9		82		3.8		2	0	0	1	4	0	4	2	18
Comilla (R)	0000	29																					
	0300																						
	1200																						
Brahmanbaria	0000	32	1008.3		1009.4	76.8	75.1	74.5	29.0		92		4.7		3	3	1	9	7	1	1	1	5
	0300		1010.4		1011.5	81.8	77.4	75.3	30.2	+1.0	81	+5	4.8		7	6	1	7	6	1	0	2	1
	1200		1006.8		1007.9	82.7	77.5	75.3	29.9		79		4.0		4	5	0	2	3	1	1	0	15
Sylhet (P.B.O.)	0000	115	1005.4		1009.4	74.0	72.9	72.3	27.2		95		4.8		0	1	3	2	1	0	0	0	24
	0300		1007.2		1011.2	80.6	76.4	74.5	29.2		82		5.2		0	2	18	3	2	0	0	0	6
	1200		1003.2		1007.1	80.7	76.4	74.8	29.1		82		4.6		0	0	0	0	0	1	4	0	26
Srimangal	0000		1005.8		1008.5	73.6	72.6	72.0	26.9		95		4.0		2	0	1	3	3	0	0	1	21
	0300		1008.8	—1.1	1011.5	81.8	77.6	75.7	30.3	+1.9	82	—2	4.6	+1.4	5	4	4	4	2	2	1	3	6
	1200		1004.4		1007.1	79.7	77.4	76.3	31.3		90		3.6		1	1	3	1	2	1	2	0	20
DACCA DIVISION																							
Mymensingh	0000	62	1007.6		1009.8	75.7	74.2	73.4	28.2		93		4.0		0	0	1	1	0	0	2	0	27
	0300		1009.8	—0.2	1011.9	80.5	76.5	74.8	29.3	+0.5	83	+2	3.5	0.0	0	0	2	8	0	0	6	0	15
	1200		1006.2		1008.3	82.4	77.2	74.7	29.5		78		3.5		0	0	1	4	0	0	7	0	19
Jamalpur (R)	0000																						
	0300																						
	1200																						
Narayanganj	0000	26	1008.5		1009.4	77.3	75.5	74.7	29.3		91		5.5		0	1	0	3	0	1	0	1	25
	0300		1010.5	—0.4	1011.4	82.4	76.7	74.2	28.8	—0.3	77	0	4.6	+1.2	0	1	2	6	0	0	1	4	17
	1200		1006.9		1007.8	82.4	76.9	74.3	29.1		77		4.5		0	0	1	4	1	1	0	0	24
Dacca (Tejgaon)	0000	32	1007.9		1009.0	75.6	74.5	74.3	28.7		95		4.6		4	2	0	5	0	1	0	1	18
	0300		1009.9		1011.0	81.3	76.7	74.5	29.3		80		4.5		2	2	0	6	2	1	0	6	12
	1200		1006.5		1007.6	81.0	76.5	74.4	29.1		80		4.5		4	2	0	2	3	0	1	3	16

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Dacca Division (contd)	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb	Mb.	%	%	oktas										
Faridpur	0000	46	1007.8		1009.4	76.4	75.6	74.6	30.0		94		4.5		6	3	1	4	5	0	0	3	9
	0300		1009.1	—0.7	1010.7	82.1	77.3	74.8	30.0	+0.8	80	+4	4.7	+2.3	6	1	2	4	5	1	0	6	6
	1200		1006.0		1007.6	82.0	77.6	75.6	30.8		81		4.5		4	2	1	5	5	0	0	3	11
Khulna Division																							
Barisal (R)	0000	11																					
	0300																						
	1200																						
Khulna	0000	16	1009.0		1009.6	76.3	74.9	74.5	29.4		94		2.7		0	0	0	0	0	0	0	0	31
	0300		1011.1	—0.1	1011.6	82.3	77.2	75.0	29.1	+0.6	78	+4	3.6	+0.2	1	2	0	1	0	0	0	0	27
	1200		1007.3		1007.8	81.3	76.4	74.2	29.3		80		3.2		0	0	0	0	0	0	0	0	31
Satkhira	0000	16	1009.5		1010.1	75.0	73.9	73.2	27.6		94		3.7		0	0	0	0	0	0	0	0	31
	0300		1010.9	—0.2	1011.4	82.3	77.0	74.5	29.4	+0.1	78	0	4.3	+1.4	2	0	0	0	2	0	0	0	26
	1200		1007.1		1007.6	82.3	78.0	76.0	30.9		82		5.9		0	0	0	1	0	0	0	0	30
Jessore (P.T.)	0000	26	1007.9		1008.8	75.3	74.4	73.8	28.9		95		4.5		2	0	4	1	1	0	0	2	21
	0300		1010.2	—0.6	1011.1	80.1	76.3	74.4	29.1	+0.1	83	+5	4.9	+2.1	7	2	2	6	8	1	2	2	1
	1200		1006.8		1007.7	82.7	77.3	74.9	29.5		78		4.6		13	0	2	2	13	0	0	0	1
Rajshahi Division																							
Pabna	0000	48	1007.5		1009.2	75.5	74.1	73.6	28.1		94		3.5		0	1	0	3	1	3	0	7	16
	0300		1009.6		1011.2	80.9	76.4	74.5	29.9	—0.5	80	+2	3.8		3	0	1	9	3	3	1	10	1
	1200		1005.9		1007.5	82.4	77.2	75.0	29.5		79		4.0		0	0	0	7	1	3	0	1	19
Ishurdi	0000					74.5	73.7	73.0	27.9		95		5.1		9	1	5	5	3	0	4	4	0
	0300					80.9	75.5	72.7	27.8	--	77	—	4.9	—	7	3	2	6	2	7	2	2	0
	1200					80.9	76.7	74.7	29.5		82		5.4		4	2	5	5	3	3	2	7	0
Serajganj	0000	51	1007.6		1009.4	75.1	74.0	73.5	27.7		95		2.7		0	0	0	1	0	0	0	0	30
	0300		1009.4		1011.2	81.7	76.8	74.5	29.7		80		3.7		0	0	0	2	2	1	0	8	18
	1200		1006.1		1007.8	81.4	77.2	74.8	29.8		82		3.5		0	0	0	0	0	0	0	0	31
Rajshai (R)	0000																						
	0300																						
	1200																						
Bogra (P.B.O)	0000	65	1007.1		1009.4	75.3	74.1	73.6	28.2		94		4.3		5	0	1	1	0	1	1	2	20
	0300		1009.0	—0.4	1011.3	80.6	76.1	74.0	28.7	+0.1	81	+1	4.5	+1.9	6	0	2	4	1	5	1	6	6
	1200		1005.7		1007.9	81.4	77.1	75.0	29.8		81		3.8		3	0	3	1	0	1	1	4	18
Dinajpur	0000	123	1005.1		1009.4	74.0	72.4	71.5	26.5		92		2.9		0	2	0	0	0	0	0	0	29
	0300		1006.5	—1.0	1010.8	81.7	76.0	73.3	27.8	+0.3	76	—5	2.5	—0.1	0	0	1	0	0	0	0	0	30
	1200		1002.9		1007.1	83.0	76.8	73.8	28.7		75		2.2		0	0	0	0	0	0	0	0	31
Rangpur	0000	113	1006.3		1010.3	73.6	72.7	72.2	27.0		95		4.0		5	2	4	1	1	2	2	0	14
	0300		1007.9		1011.8	79.3	75.8	74.2	28.9		85		3.4		5	12	4	3	0	4	3	0	0
	1200		1004.0		1007.9	81.0	76.7	74.7	29.4		81		3.3		0	2	2	5	0	0	3	0	19

(R) Register not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
KASHMIR																							
Jammu (x)	0300	1200																					
	1200																						
LAHORE																							
Lahore (P.B.O.)	0000	702	985.3		1010.1	65.4	62.4	60.4	17.9		84		0.4		1	2	2	0	1	0	0	0	25
	0300		986.8	0.0	1011.3	71.9	64.9	60.2	17.8	+1.9	67	+12	0.6	0.0	0	0	1	4	0	0	0	0	26
	1200		984.5		1008.4	84.7	69.6	60.3	17.9		44		0.8		4	2	0	1	0	0	0	1	23
,, (Cantt.)	0000	709	984.2		1009.2	65.4	62.3	60.3	17.8		83		0.5		4	1	0	0	0	0	1	0	25
	0300		986.1	—	1010.8	71.4	65.3	61.0	18.6	—	71	—	0.6	—	1	5	2	5	4	1	1	1	11
	1200		983.6		1007.8	84.9	68.3	57.2	16.1		39		0.9		4	3	0	2	0	2	3	5	12
Sialkot (R)	0000	830																					
	0300																						
	1200																						
RAWALPINDI																							
Jhelum	0000	767	982.7		1009.8	63.3	60.7	58.7	16.9		85		0.9		2	1	1	1	0	1	1	1	23
	0300		984.5	—	1011.4	68.8	63.1	58.8	17.2	—	72	—	1.2	—	2	2	1	2	0	1	0	1	22
	1200		981.8		1007.9	82.9	69.3	61.0	18.3		48		1.1		3	1	1	3	1	0	2	4	16
Chaklala	0000	1667	953.0		1011.4	59.2	55.9	53.3	13.9		81		1.0		7	6	0	1	0	0	0	3	14
	0300		954.4	—	1012.4	63.6	58.8	55.5	15.0	—	75	—	1.4	—	4	3	2	1	0	0	1	2	18
	1200		952.3		1008.3	80.3	63.3	51.2	13.0		36		1.1		1	0	3	2	1	2	9	7	6
Rawalpindi	0000	1675	952.7		1011.3	60.1	57.2	55.1	14.9		83		0.9		0	2	1	0	0	0	0	3	25
	0300		954.2	—0.5	1012.3	65.7	59.7	55.5	15.1	+2.3	70	+18	2.0	+1.1	5	5	1	1	0	1	0	2	16
	1200		952.0		1008.5	79.2	65.4	57.0	15.7		45		1.3		0	0	3	0	0	2	8	5	13
Campbellpur	0300	1175	971.0	—	1012.0	66.7	60.2	55.1	14.9	—	67		1.1	—	0	1	0	0	0	0	0	0	30
	1200		968.2		1007.8	84.6	66.0	52.6	13.5		34		1.1		0	1	0	1	0	1	0	2	26
SARGODHA																							
Khushab	0000	616	*		*	*	*	—	—		—		0.0		1	2	10	1	0	0	2	0	15
	0300		989.7	—1.3	1011.3	71.5	62.8	56.4	15.6	+2.2	59	+7	0.4	—0.2	1	3	8	0	0	0	0	1	18
	1200		987.3		1008.2	88.7	67.8	53.3	13.8		30		1.1		1	3	5	0	1	0	2	1	18
Sargodha	0000	617	988.0		1009.8	63.1	59.4	56.6	15.7		80		0.4		2	4	8	3	2	1	2	0	9
	0300		989.5	—	1011.1	69.3	62.9	58.3	16.7	—	67	—	0.8	—	2	6	6	2	1	2	1	0	11
	1200		987.3		1008.1	86.1	67.4	54.1	14.5		35		0.6		0	4	8	3	3	6	3	1	3
Mianwali	0000	679	(b) 984.7		(b) 1008.5	64.6	58.4	53.5	14.0		68		0.0		0	1	0	0	1	0	0	0	29
	0300		(b) 986.4	—	(b) 1010.7	71.3	61.0	53.0	13.7	—	52	—	0.6	—	0	2	0	0	0	0	0	0	29
	1200		984.1		1007.5	88.3	67.6	53.0	13.7		30		0.4		0	4	0	2	0	0	0	0	25
Lyallpur	0000	605	988.2		1009.7	64.9	61.2	58.4	16.8		80		0.3		0	1	0	3	1	1	0	0	25
	0300		989.7	—0.5	1010.9	70.3	63.2	58.2	16.6	+2.0	65	+10	0.5	—0.2	1	1	1	2	1	0	1	0	24
	1200		987.4		1007.9	88.1	67.7	53.1	13.9		31		0.4		0	2	1	3	3	1	0	1	20
MULTAN																							
Montgomery	0000	558	(b) 989.2		(b) 1008.9	64.6	61.0	58.3	16.7		81		0.1		0	4	0	2	0	2	1	0	22
	0300		991.3	—0.2	1010.8	72.5	63.8	57.8	16.4	+0.1	60	0	0.3	—0.1	0	2	2	7	0	4	1	0	15
	1200		(a) 989.1		(a) 1008.0	87.2	70.4	59.8	17.8		41		0.2		0	2	0	2	0	1	0	0	26
Multan (P.B.O.)	0000	404	994.6		1009.0	68.1	60.9	55.2	15.1		65		0.2		4	0	2	4	3	0	0	0	18
	0300		996.1		1010.5	71.5	62.8	56.4	15.6	...	60	...	0.2	—	4	2	0	9	4	2	0	1	9
	1200		993.8		1007.5	89.2	68.2	53.4	14.1		30		0.3		3	1	1	6	11	4	2	0	3

(a) Mean for 30 days. (b) Mean for 29 days. (x) Data not available. (R) Data not received. (*) Data rejected

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	G.M.T.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Multan (Surface)	0300	413	996.0	—0.5	1010.4	74.0	63.8	57.0	15.7	—1.5	55	—4	0.4	0.0	4	0	3	0	1	0	1	0	22
	1200		993.4		1007.4	90.0	69.5	55.8	15.3		31		0.2		2	0	3	0	2	0	0	0	24
Leiah	0000	487	*		*	62.2	54.5	46.9	11.0		57		0.3		2	1	4	4	7	2	1	1	9
	0300		*	—	*	72.5	62.3	54.6	14.6	—	54	—	0.6	—	4	2	3	4	14	2	0	1	(a) 0
	1200		*		*	89.9	68.9	53.7	14.6		30		0.6		3	2	3	4	10	4	0	1	4
BAHAWALPUR																							
Khanpur (P.B.O.)	0000	290	998.5		1008.9	64.3	60.7	58.0	16.5		81		0.0		1	3	0	0	1	6	1	1	19
	0300		1000.3		1010.2	72.7	64.0	58.1	16.5	—	59	—	0.0	—	1	6	0	1	2	9	2	1	9
	1200		997.6		1007.5	88.8	70.0	58.0	16.5		36		0.0		6	2	0	0	0	4	4	0	15
Bahawalpur	0300	384	997.0	—0.9	1010.4	76.0	*	—	—		—		0.0	—0.4	0	1	0	4	1	2	0	1	22
	1200		*		*	92.5	*	—	—		—		0.0		0	1	1	0	0	0	0	0	29
Fort Abbas (R)	0000	475																					
	0300																						
	1200																						
PESHAWAR																							
Chakdara	0000	2197	934.7		1010.7	59.9	53.2	46.9	11.2		64		0.3		14	0	2	0	0	0	0	0	15
	0300		936.2	—	1012.0	62.5	55.0	48.4	11.8	—	61	—	0.0	—	7	0	1	0	2	0	0	0	21
	1200		933.5		1005.9	77.7	62.6	52.1	13.3		41		0.3		3	0	8	0	3	0	1	0	16
Peshawar	0000	1177	969.4		1010.7	63.4	58.5	54.5	14.5		73		1.0		2	0	0	0	4	2	0	2	21
	0300		971.1	—0.9	1012.1	67.0	60.6	55.7	15.2	+3.3	67	+15	1.0	0.0	1	1	0	1	2	1	1	3	21
	1200		968.5		1008.4	80.9	65.7	55.4	14.8		41		1.6		2	9	1	1	0	1	0	3	14
Risalpur	0000	1047	973.8		1010.4	62.5	60.0	58.1	16.5		86		1.2		3	0	3	2	0	1	0	1	21
	0300		975.3	—	1011.7	66.2	61.2	57.5	16.2	—	74	—	1.1	—	1	0	1	2	0	1	4	0	22
	1200		972.7		1008.0	82.8	65.4	52.5	18.3		35		1.7		3	6	4	2	0	1	3	4	8
Haripur	0300	1757	951.2		1011.6	68.7	60.0	53.2	14.2	—	58	—	1.1		0	0	0	5	1	24	0	1	0
	1200		(a) 949.3		(a) 1008.2	80.6	*	—	—		—		0.9		0	1	0	7	0	19	0	4	0
Kohat	0000	1683	952.8		1010.9	67.2	57.3	48.6	12.1		53		0.9		1	1	0	0	0	0	0	26	3
	0300		954.4	—	1012.4	69.6	58.2	49.2	12.0	—	49	—	1.1	—	1	0	1	0	0	0	1	21	7
	1200		952.1		1008.6	82.2	62.2	46.8	11.0		29		1.3		2	11	0	6	1	0	0	0	11
D. I. KHAN																							
Bannu	0000	1263	965.6		1009.9	64.7	58.3	52.5	14.0		67		0.2		3	0	2	0	0	0	2	7	17
	0300		967.2	—	1011.5	67.7	60.5	54.7	15.1	+2.8	66	+15	1.2	+0.6	0	0	0	0	0	0	4	5	22
	1200		964.8		1007.3	85.2	67.5	55.0	16.7		39		0.7		0	2	10	8	3	0	0	1	7
D. I. Khan	0000	570	989.1		(a) 1009.3	(a) 64.5	(a) 60.4	57.6	16.1		78		0.2		1	0	1	0	0	0	0	0	29
	0300		990.9	—0.5	1010.9	69.6	63.1	58.9	16.0	+0.7	68	+7	0.3	—0.2	0	4	0	0	0	0	0	0	27
	1200		987.9		1007.2	88.7	*	—	—		—		0.4		0	5	0	0	1	0	0	0	25
AFGHANISTAN																							
Jalalabad (x)	0000	1950																					
	0300																						
	1200																						

(R) Register not received. (a) Mean for 30 days. (*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
QUETTA																							
Sibi	0000	441	993.8		1009.4	96.6	58.0	47.1	11.3		48		0.0		6	4	2	0	0	0	0	3	16
	0300		995.3	+0.1	1010.9	71.2	59.5	47.6	12.1	+2.5	48	+14	0.0	—0.4	5	3	1	0	0	0	1	2	19
	1200		992.5		1007.3	94.7	68.2	48.0	11.6		23		0.0		0	2	1	5	9	9	1	1	3
KALAT																							
Nokkundi	0000	2229	936.0		1013.2	61.8	47.0	26.8	5.1		28		0.0		13	5	2	0	1	0	1	9	0
	0300		938.1	—	1015.0	65.7	48.8	25.5	5.0	—3.0	23	—21	0.0	—0.6	10	3	4	0	0	2	5	7	0
	1200		935.0		1009.0	86.9	60.7	34.8	7.5		17		0.0		8	2	2	3	4	2	1	9	0
Turbat	0000	510	992.0		1009.9	73.1	63.0	52.5	15.1		55		0.0		1	4	3	2	0	0	0	0	21
	0300		993.6	—	1011.2	77.1	63.6	49.8	14.0	—	45	—	0.0	—	0	2	8	4	0	0	1	0	16
	1200		989.2		1006.2	96.6	69.5	46.3	12.4		21		0.0		1	5	5	0	4	3	9	2	2
Jiwani	0000	185	1003.8		1010.2	73.5	69.3	66.6	22.2		80		0.2		6	3	1	1	3	4	3	0	10
	0300		1005.5	—	1011.9	76.4	68.7	61.9	20.1	—	69	—	0.7	—	5	5	3	1	3	6	3	0	5
	1200		1003.4		1009.7	84.9	72.0	63.0	20.8		51		0.1		0	0	0	1	9	17	4	0	0
Pasni	0000	28	1009.3		1010.3	76.7	65.5	60.9	18.7		73		0.1		3	2	1	0	0	0	5	6	14
	0300		1010.5	—0.7	1011.5	74.8	67.3	60.3	19.4	—2.3	68	—10	0.4	—1.3	3	3	1	0	0	1	7	5	11
	1200		1007.8		1008.7	86.1	74.1	66.6	23.3		56		0.1		0	1	0	2	12	13	2	1	0
KARACHI																							
Ormara	0000	15	1008.9		1009.4	72.6	69.1	66.1	22.7		83		1.0		0	0	0	1	0	1	8	1	20
	0300		1010.3		1010.8	75.9	70.6	66.4	23.2	+0.6	78	—1	0.8	—1.2	0	0	0	1	0	0	5	2	23
	1200		1007.7		1008.2	86.5	74.4	65.6	23.6		57		0.3		0	0	0	0	6	3	22	0	0
Lasbela (R)	0000	292																					
	0300																						
	1200																						
Karachi (Manora)	0000	13	1008.7		1009.2	74.4	69.4	66.2	22.3		77		0.5		0	5	1	0	0	1	6	6	12
	0300		1010.1	—1.2	1010.6	75.5	70.2	67.0	22.9	—1.5	76	—4	0.5	—0.9	1	6	1	0	0	1	7	9	6
	1200		1007.5		1008.0	84.5	78.2	75.1	30.1		74		0.4		0	0	1	0	0	4	22	4	0
Karachi (Mauripur)	0000	52	1007.5		1009.3	72.1	70.0	68.5	24.1		90		0.4		1	1	0	0	0	1	3	2	23
	0300		1008.9	—	1010.7	73.4	70.7	68.7	24.5	—	87	—	0.2	—	1	3	0	0	0	0	5	2	20
	1200		1006.6		1008.4	87.0	76.4	70.5	26.3		61		0.3		0	1	0	0	1	21	7	1	0
Karachi (City)	0300	20	1009.1	—	1009.3	76.0	70.7	67.7	23.3	—	76	—	0.4	—	2	2	1	0	0	0	11	3	12
	1200		1007.0		1007.7	85.5	72.6	64.4	21.5		52		0.3		0	1	0	0	0	14	16	0	0
Karachi (Airport)	0000	73	1006.9		1009.6	69.9	66.5	63.5	20.6		83		0.0		3	0	0	0	0	0	3	1	24
	0300		1008.6	—	1011.6	73.2	68.0	63.6	21.1	—	76	—	0.3	—	1	1	0	0	0	0	4	1	24
	1200		1005.9		1008.4	87.2	70.5	58.4	18.0		42		0.2		0	1	0	0	1	26	2	1	0
Gadap	0300		—	—	—	76.0	70.1	66.5	22.4	—	73	—	0.3	—	9	2	0	0	0	5	5	0	10
	1200		—		—	87.5	71.2	60.8	18.8		43		0.2		1	2	0	0	1	16	11	0	0
HYDERABAD																							
Mithi	0000	96	1005.9		1009.2	72.6	70.6	69.8	23.9		89		0.0		0	0	0	0	0	1	0	0	30
	0300		1007.3	—	1010.6	74.7	70.2	67.5	23.2	—	75	—	0.0	—	0	0	0	0	0	0	0	1	30
	1200		1003.4		1006.5	93.3	75.8	67.1	22.5		43		0.0		0	3	0	0	0	4	1	13	10
Nagarparkar	0000	178	1003.0		1009.1	75.3	68.8	63.9	21.1		70		0.1		1	0	0	0	0	2	1	5	22
	0300		1004.1		1010.2	77.5	70.1	65.3	21.8	—	68	—	0.0	—	2	0	0	0	0	1	0	10	18
	1200		1001.0		1007.0	91.4	75.4	66.0	22.8		48		0.3		2	2	2	4	3	3	2	5	8

(R) Register not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mts. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Umarkot	0000	55	1006.6		1008.5	68.8	66.3	64.6	20.9		88		0.0		0	1	0	0	6	8	0	0	16
	0300		1008.4		1010.3	75.2	69.5	65.7	22.0		74		0.0		1	2	1	1	4	7	0	1	14
	1200		1005.1		1007.0	92.6	73.4	61.4	19.4		37		0.1		1	1	0	0	1	9	9	8	2
Chhor	0000	19	1008.0		1008.7	64.3	62.5	60.9	18.3		90		0.0		0	0	0	0	4	0	0	0	27
	0300		1009.9		1010.9	73.7	67.0	62.3	19.9		69		0.3		0	3	0	0	1	3	1	1	22
	1200		1006.7		1007.3	91.0	71.2	58.3	16.9		35		0.9		1	1	0	0	0	8	2	2	17
Hyderabad	0000	98	1005.4		1008.9	71.3	65.9	61.8	19.2		74		0.0		2	0	0	0	1	5	0	1	22
	0300		1007.2	—0.5	1010.6	74.7	67.4	62.3	19.4	+0.9	67	+6	0.0	—0.5	3	0	0	0	0	9	0	0	19
	1200		1004.2		1007.6	92.7	69.6	53.2	14.4		28		0.2		3	1	0	3	4	12	0	1	7
Badin	0000	31	1008.0		1009.1	72.7	69.6	67.7	23.1		85		0.0		0	0	0	0	0	30	0	1	0
	0300		1009.5	—0.7	1010.6	74.7	71.0	68.8	24.2	+2.9	81	+13	0.0	—1.0	0	0	0	0	0	28	0	2	1
	1200		1006.7		1007.7	92.5	74.4	62.8	20.8		39		0.0		1	0	0	0	0	25	0	2	3
KHAIRPUR																							
Padidan	0000	153	1003.2		1008.6	63.5	59.7	56.4	15.8		78		0.0		3	1	0	4	0	0	0	1	22
	0300		1005.1		1010.5	69.4	62.8	57.8	16.6	—	68		0.0	—	3	3	1	8	0	1	1	2	12
	1200		1002.5		1007.7	93.0	67.1	46.0	11.0		21		0.0		10	2	0	5	6	2	1	3	2
Nawabshah	0000	124	1005.2		1009.7	65.5	61.4	58.1	16.5		77		0.0		0	0	0	0	2	0	0	0	29
	0300		1006.9		1011.3	71.1	64.3	59.5	17.6	—	68		0.0	—	0	0	0	0	4	0	0	3	24
	1200		1004.5		1008.7	93.6	63.6	50.3	14.9		23		0.3		2	0	0	0	6	1	3	1	18
Sukkur	0300	221	1002.6	—0.8	1010.2	75.4	66.5	60.2	18.2	+0.6	60	+1	0.0	—0.2	3	3	0	3	4	2	0	0	6
	1200		999.9		1007.4	91.8	71.8	59.3	17.5		34		0.0		8	7	1	0	0	5	5	3	2
Kashmore	0000	225	*		*	72.4	65.5	60.4	18.3		67		0.1		0	0	0	0	0	0	0	0	31
	0300		1001.6		1010.6	75.6	66.9	60.8	18.6	—	61		0.0	—	0	4	0	0	0	0	0	0	27
	1200		999.4		1008.0	94.0	72.5	57.9	17.5		32		0.3		0	0	0	0	0	0	0	0	31
Jacobabad	0000	183	1002.5		1008.9	70.0	65.0	61.0	18.8		75		0.0		1	2	6	8	1	3	0	4	6
	0300		1004.3	—0.2	1010.8	73.7	66.8	62.0	19.3	+2.9	67	+13	0.0	—0.3	2	0	6	6	0	0	0	4	13
	1200		1001.6		1007.7	92.1	74.0	63.1	20.5		40		0.0		1	1	0	6	13	3	1	4	2
JUNAGADH																							
Veraval	0300	26	(b) 1009.9		(b) 1010.9	(d) 76.7	(d) 68.7	(d) 63.6	20.4		65		(b) 0.0		(d) 9	5	4	0	1	1	5	2	0
	1200		(j) 1007.2		(j) 1008.2	(j) 84.0	(j) 76.0	(j) 71.7	27.0		68		(j) 0.0		(m) 2	0	1	0	4	0	8	3	0
ARABIA																							
Muscat (x)	0300																						
	1200																						
HILL STATION: KASHMIR																							
Srinagar (x)	0000																						
	0300																						
	120																						

(x) Data not available. (*) Data rejected. (b) Mean for 29 days. (d) Mean for 27 days. (j) Mean for 21 days. (m) Mean for 18 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Mean Temperature of the Air and Humidity: Wet bulb.	Mean Temperature of the Air and Humidity: Dew point.	Mean Temperature of the Air and Humidity: Vapour pressure.	Mean Temperature of the Air and Humidity: Departure from normal.	Mean Temperature of the Air and Humidity: Relative humidity.	Mean Temperature of the Air and Humidity: Departure from normal.	Total Cloud Amount: Mean amount.	Total Cloud Amount: Departure from normal.	Wind Directions Number of Observations From: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Gulmarg (x)	0300	8709																					
	1200																						
Gurez (x)	0300	...																					
	1200																						
Sonamarg (x)	0300																						
	1200																						
Dras (x)	0300	...																					
	1200																						
Kargil (x)	0300	...																					
	1200																						
Leh (x)	0000	...																					
	0300																						
	1200																						
Skardu (x)	0000	7250																					
	0300																						
	1200																						
Misgar	0000	10190	*		*	(g) 35.2	(g) 29.6	(g) 20.7	3.8		55		(g) 2.0		1	0	2	0	0	0	8	2	(g) 11
	0300		700.9	...	3114.9	37.2	30.7	20.6	3.8	...	50	...	2.3	...	1	0	1	0	0	1	6	0	22
	1200		699.3		3095.6	47.6	35.9	15.6	3.6		31		3.0		1	5	8	5	0	0	6	2	4
Aliabad (x)	0300																						
	1200																						
Gilgit (x)	0000	4590																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	785.0		1502.6	49.7	42.4	33.4	6.6		55		0.9		0	0	2	3	1	0	3	14	8
	0300		786.2	—1.0	1511.3	52.7	44.6	35.5	7.1	0.0	53	+7	1.5	+0.4	2	2	3	8	1	1	6	4	4
	1200		785.4		1496.7	57.4	49.4	42.3	9.2		57		1.5		1	0	3	2	1	0	10	8	6
PESHAWAR																							
Drosh	0000	4806	854.8		1511.7	57.0	47.9	37.7	7.7		49		1.1		0	0	0	1	0	3	1	0	26
	0300		856.1	—1.8	1523.7	55.5	47.3	37.4	7.8	—0.1	52	—5	1.8	+0.4	0	2	0	0	0	0	0	0	29
	1200		852.3		1486.9	71.9	54.2	35.7	7.3		27		3.1		0	0	1	1	0	25	0	0	4
Cherat	0000	4272	(a) 868.1		(a) 1478.3	59.2	53.5	48.0	11.7		68		0.6		0	3	0	5	1	6	0	10	6
	0300		(a) 869.5	—2.1	(a) 1492.0	61.9	54.8	48.5	11.8	+2.9	63	+15	1.0	+0.1	1	7	0	5	0	3	0	7	8
	1200		*		*	70.0	59.8	52.3	13.4		54		1.9		0	2	0	3	2	6	0	8	9
Kakul	0000	4214	871.7		1494.6	58.0	49.9	41.4	9.0		55		1.5		8	11	1	2	1	2	0	6	0
	0300		873.1	...	1509.3	61.1	52.5	44.4	10.0	...	55	...	1.6	...	12	5	1	1	0	3	4	5	0
	1200		871.5		1497.6	70.2	56.6	44.1	10.1		41		1.7		1	1	0	4	11	6	2	6	0
Balakot	0000	3226	x		*	56.2	52.7	49.5	12.2		79		1.6										
	0300		x	...	*	54.9	51.8	48.8	11.9	...	81	...	1.4	...									
	1200		x		*	72.3	61.7	53.8	14.5		54		1.6										
Landikotal	0000	3503	892.9		1477.7	55.5	51.1	47.1	11.0		73		0.9		0	0	0	0	0	0	0	0	31
	0300		894.0	...	1494.4	62.0	54.5	48.1	11.5	...	61	...	0.6	...	0	0	0	0	0	0	0	0	31
	1200		892.3		1486.3	73.9	60.1	49.1	12.1		42		1.3		0	0	0	24	0	4	0	0	3

(a) Mean for 30 days. (g) Mean for 24 days. (x) Data not available. (*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Direction Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Parachinar	0000	5673	*		*	*	*	—	—		—		1.0		0	0	0	0	0	0	0	0	31
	0300		*	—	*	*	*	—	—	—	—	—	0.7	—0.2	0	0	0	0	0	0	0	0	31
	1200		*		*	*	*	—	—		—		3.4		0	2	0	28	0	1	0	0	0
D. I. KHAN																							
Miranshah	0000	3026	*		*	59.2	52.3	45.9	10.6		61		0.3		0	1	0	0	0	0	0	0	30
	0300		*	—	*	65.0	52.5	41.2	8.5	+1.3	40	—3	0.2	—0.3	0	1	0	0	0	0	0	0	30
	1200		*		*	79.8	61.0	46.2	10.8		31		0.9		0	9	0	0	0	0	0	0	22
Wana	0300	4503	*	—	*	57.5	47.0	34.5	6.8	+0.3	41	—5	0.0	—0.3	0	0	0	0	0	1	0	0	30
	1200		*		*	75.2	55.6	36.7	7.2		24		0.3		0	5	1	13	0	2	0	0	10
AFGHANISTAN																							
Kabul (x)	0300	5955																					
	1200																						
Kandahar (x)	0300	3462																					
	1200																						
QUETTA																							
Fort Sandeman (P.T.)	0300	4614	861.4	+0.3	1519.1	59.9	47.9	33.2	6.6	+0.7	38	—11	0.2	—0.4		0	0	0	1	2	2	0	26
	1200		858.6		1493.4	79.8	57.5	34.4	7.2		20		0.2			1	1	2	2	4	6	2	11
,, (P.B.O.)	0000	4615	860.3		1505.9	54.9	46.2	35.9	7.2		51		0.2		0	1	0	12	0	3	0	0	15
	0300		861.5	—	1518.2	59.5	47.9	33.3	6.7	—	39	—	0.2		0	1	0	1	2	9	5	0	13
	1200		858.4		1491.6	78.9	56.3	32.7	6.4		20		0.1		1	2	0	1	0	9	10	1	7
Hindubagh	0000	5909	819.6		1496.5	51.1	42.3	31.6	6.0		48		0.0		0	0	0	0	0	4	17	0	10
	0300		820.6	—	1505.5	55.2	44.1	30.3	5.9	—	39	—	0.0		0	0	0	0	0	4	22	1	4
	1200		817.9		1465.5	73.4	53.8	34.8	7.1		26		0.0		0	0	2	2	0	10	16	1	0
Loralai	0000	4699	856.0		1488.9	50.3	42.4	31.8	6.1		50		0.0		2	5	2	0	1	4	1	2	14
	0300		857.4	—	1503.7	57.7	47.4	35.4	7.2	—	44	—	0.1		1	0	0	0	0	2	9	15	4
	1200		854.7		1478.5	74.5	59.5	46.8	11.3		39		0.8		1	0	2	17	8	1	0	1	1
Harnai	0300		—	—	—	—	—	—	—	—	—		0.0		*	*	*	*	*	*	*	*	*
	1200		—		—	—	—	—	—		—		0.0		*	*	*	*	*	*	*	*	*

Data not available. (*) Data missing.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER, 1961

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or equipotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Quetta (Samungali)	0000	5213	842.3		1513.4	37.7	32.3	23.1	4.4		58		0.0		0	0	5	5	1	0	0	0	20
	0300		843.6		1524.5	44.9	36.8	24.4	4.7	—	47	—	0.0		0	0	2	5	0	0	1	0	23
	1200		841.3		1497.5	72.7	51.9	27.2	5.8		23		0.0		4	0	0	0	0	0	7	19	1
,, (P.T.	0300	5490	834.3	—1.8	1514.7	52.2	39.3	18.7	3.6	—2.5	26	—23	0.0	—0.5	2	1	0	0	0	1	0	2	25
	1200		833.0		1495.4	71.2	57.3	14.7	11.1		12		0.0		1	0	0	0	0	1	2	14	13
,, (P.B.O.)	0000	5560	831.9		1549.3	45.9	35.8	18.9	3.6		34		0.0		0	2	0	0	0	0	0	1	28
	0300		832.8	—	1558.4	51.7	38.9	19.5	3.5	—	29	—	0.0	—	0	5	15	6	0	0	0	1	4
	1200		831.5		1537.4	71.6	48.7	19.5	3.6		14		0.0		2	0	0	0	0	0	2	17	10
Chaman	0000	4311	869.5		1502.1	55.0	41.1	16.0	3.3		21		0.0		0	1	26	1	2	0	1	0	0
	0300		870.6	—0.9	1515.4	61.5	44.1	16.1	3.0	—2.9	18	—15	0.0	—0.6	0	0	11	12	2	5	1	0	0
	1200		867.9		1495.0	76.3	51.5	14.9	3.0		10		0.0		0	0	0	0	1	8	19	3	0
Nushki	0000	3416	*		*	60.9	48.5	33.4	6.6		37		0.0		1	3	17	0	0	0	1	6	3
	0300		902.6		1547.4	66.3	51.3	34.5	6.9	—	32	—	0.0	—	0	4	15	0	0	0	0	6	6
	1200		901.1		1548.3	81.0	60.2	43.0	9.2		27		0.0		0	0	0	0	0	2	20	4	5
Dalbandin	0000	2785	918.0		1485.1	52.3	41.5	24.4	4.6		34		0.0		3	10	4	0	1	0	0	1	12
	0300		919.7	+0.7	1504.7	55.8	43.3	23.2	4.5	—1.3	29	—9	0.0	—0.6	4	15	2	1	1	1	0	1	6
	1200		917.0		1516.3	84.4	58.1	28.8	5.9		15		0.0		1	6	8	7	5	3	0	1	0
KALAT																							
Kalat	0000	6616	(a) 798.7		(a) 1504.6	(a) 37.7	(a) 33.6	(a) 27.4	5.0		67		(a) 0.0		(a) 3	0	1	0	15	3	1	7	0
	0300		(a) 799.4	—3.0	(a) 1502.6	(a) 49.8	(a) 41.5	(a) 30.9	5.9	0.0	49	+4	(a) 0.0	—0.4	(a) 1	0	0	2	18	0	2	7	0
	1200		(a) 798.0		(a) 1470.6	(a) 66.0	(a) 50.5	(a) 34.7	7.0		31		(a) 0.0		(a) 6	0	0	0	1	0	2	21	0
Panjgur	0000	3177	905.0		1486.3	56.7	43.6	23.5	4.5		28		0.0		3	17	6	0	0	1	0	2	2
	0300		906.3	—0.1	1501.2	59.1	44.8	22.9	4.2	—3.6	26	—20	0.0	—0.4	3	21	1	2	0	1	0	2	1
	1200		904.2		1507.2	81.5	55.3	21.5	4.6		12		0.0		13	3	0	0	2	0	2	11	0

(*) Data rejected.

(a) Mean for 30 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF OCTOBER, 1961.

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
CHITTAGONG DIVISION																					
Rangamati	89.7		93	4 days	75.9		70	29	12.11		3.98	13	13		x		10	0	6	0	0
Cox's Bazar	87.6	+0.5	91	6,14,15	74.8	+1.2	69	29	12.52	+5.36	6.03	25	8	+0.5	x		7	0	0	0	0
Chittagong (Patenga)	88.0		93	6	75.6		70	29	13.38		7.66	25	8		x		6	0	0	0	0
Chittagong (P. T.)	87.9	+1.0	92	6	75.5	+2.1	68	29	9.25	+2.16	4.92	25	8	+1.0	x		5	0	0	0	0
Maijdi Court	87.0	+0.4	91	6,13	75.0	—0.6	69	29,30	3.88	—4.25	0.80	3	11	+3.3	x	—	0	0	0	0	0
Comilla (R)																—					
Brahmanbaria	87.6	—1.6	90	5 days	75.9	+1.7	71	29,31	1.83	—4.51	0.97	17	5	—1.9	2.5		4	0	0	0	0
Sylhet(PB.O.)	87.0		95	23	73.6		66	29	5.31		1.82	17	6		x		6	0	6	0	0
Srimangal	88.7	—0.3	94	24	72.1	+1.9	63	31	3.99	—3.07	0.95	24	9	+0.9	2.2	+0.5	0	0	0	0	0
DACCA DIVISION																					
Mymensingh	88.1	+1.0	92	5,7	74.3	+0.4	67	31	3.47	—2.85	1.25	2	7	+0.9	x		2	0	0	0	0
Jamalpur (R)																					
Narayanganj	89.2	+1.0	93	12	76.0	+0.7	71	31	3.78	—1.49	0.86	3	8	+2.0	2.0	+0.5	6	0	0	0	0
Dacca (Tejgaon)	87.9		92	6	74.7		69	4 days	2.15		0.66	3	6		2.8		8	0	1	0	0
Faridpur	87.2	—0.1	91	6	74.9	+0.8	69	31	5.24	+0.39	1.86	25	9	+3.4	1.7	—0.3	3	0	0	0	0
KHULNA DIVISION																					
Barisal (R)																					
Khulna	88.2	+0.1	92	13,15,16	75.9	+0.9	71	23	4.29	+0.03	1.63	18	8	+1.8	1.3	—0.4	0	0	0	0	0
Satkhira	88.5	—1.2	92	6,7,13	74.4	+0.3	68	23	7.43	+2.93	4.20	18	9	+3.3	0.2	—0.8	0	0	0	0	0
Jessore (P.T.)	88.0	—1.0	91	7,16	74.0	+1.5	67	23	1.96	—2.63	0.65	3	5	—0.8	2.1	+0.9	0	0	2	0	0
RAJSHAHI DIVISION																					
Pabna	87.3	—3.0	91	5 days	74.9	+2.5	67	31	4.05	—0.34	1.32	17	8	+2.5	x	—	13	0	0	0	0
Ishurdi	86.3		91	6	73.9		66	31	6.59		1.59	16	9		x		0	0	0	0	0
Serajganj	88.8		96	8	73.6		68	31	3.81	—0.90	1.15	31	7	+1.8	1.5		4	0	0	0	0
Rajshahi (R)																					
Bogra (P.B.O.)	87.3	0.0	92	5,6,12	74.5	+1.4	67	30,31	(a) 2.18		2.75	13	7	+1.5	2.2	+1.1	6	0	0	0	0
Dinajpur	89.1	+1.7	95	8	72.9	+0.8	65	27,28	4.14	—0.61	2.80	3	7	+2.5	x		2	0	2	0	0
Rangpur	87.1		93	6	72.7		66	27	13.44	+7.62	8.05	3	6	+1.5	2.0		0	0	1	0	0

(x) Data not available. (a) Observation for 30 days

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF OCTOBER, 1961.

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR																					
Jammu (x)																					
LAHORE																					
Lahore (P.B.O.)	90.2	—3.8	102	1	64.3	+4.5	55	31	0.96	+0.72	0.66	15	3	+2.5	1.7	+0.7	3	0	0	0	1
„ (Cantt.)	90.4	—	100	1	63.8	—	55	31	0.19	—	0.09	30	0	—	2.3	—	2	0	0	0	1
Sialkot (R)																					
RAWALPINDI																					
Jhelum	89.7	—	98	7	61.7	—	55	4 days	1.28	—	0.73	15	2	—	1.7	—	5	1	0	0	1
Chakala	84.9	—	93	4days	56.9	—	50	31	1.54	—	0.73	8	3	—	3.5	—	6	0	0	0	0
Rawalpindi	85.5	—3.1	94	4	58.6	+1.6	51	31	1.20	+0.60	0.33	31	4	+2.6	1.7	+0.5	5	0	0	0	1
Campbellpur	87.6	—	97	5	58.3	—	50	26	0.65	—	0.40	13	2	—	0.3	—	0	0	0	0	0
SARGODHA																					
Khushab	93.3	—0.3	101	6 days	62.6	—0.8	52	31	0.00	—0.15	0.00	—	0	—0.4	3.9	+1.0	0	0	0	0	1
Sargodha	91.1	—	101	1	61.3	—	53	18	0.00	—	0.00	—	0	—	4.5	—	1	0	0	0	1
Mianwali	93.2	—	102	1,3	62.4	—	49	31	0.00	—	0.00	—	0	—	x	—	0	0	0	0	0
Lyallpur	*	—	—	—	63.1	+0.7	54	31	0.00	—0.12	0.00	—	0	—0.4	1.9	+0.5	2	0	0	1	0
MULTAN																					
Montgomery	93.3	—1.7	102	1	63.6	+0.1	55	31	0.00	—0.08	0.00	—	0	—0.3	(x)	—	0	0	0	0	1
Multan (P.B.O.)	94.1	—	104	1	65.5	—	56	28	0.00	—	0.00	—	0	—	3.2	—	0	0	0	0	0
„ (Surface)	94.1	—0.3	103	1	68.4	+4.7	59	31	0.00	—0.08	0.00	—	0	—0.2	(x)	—	0	0	0	0	1
Leiah	95.0	—	105	2	*	—	—	—	0.00		0.00	—	0	—	(x)	—	0	0	0	3	0
BAHAWALPUR																					
Khanpur (P.B.O.)	93.2	—	100	1,2	62.2	—	55	25,26,31	0.00	—	0.00	—	0	—	2.8	—	1	0	0	1	0
Bahawalpur	94.7	—0.9	102	1,2,4	64.9	+2.4	53	30	0.00	—0.06	0.00	—	0	—0.2	2.1	+0.1	0	0	0	0	0
Fort Abbas (R)																					
PESHAWAR																					
Chakdara	83.3	—	92	1,6	56.4	—	51	4 days	0.00	—	0.00	—	0	—	(x)	—	2	0	0	0	0
Peshawar	85.4	—2.4	95	1	61.8	+1.3	52	30	1.58	+1.35	0.73	14	2	+1.4	0.9	—0.2	6	0	0	0	1
Risalpur	87.5	—	97	3,6	59.7	—	51	30,31	1.48	—	1.40	14	1	—	1.9	—	7	1	0	0	1
Haripur	85.5	—	95	9	58.7	—	50	31	0.35	—	0.21	1	2	—	5.2	—	1	0	0	0	0
Kohat (P.A.F.)	86.3	—	96	1	65.0	—	52	30	3.32	—	1.77	9	4	—	6.2	—	5	1	0	0	0
D. I. KHAN																					
Bannu	90.8	+0.2	98	1	63.2	+1.3	51	30	0.00	—0.04	0.00	—	0	—0.1	1.1	—	0	0	0	0	0
D. I. Khan	92.3	—1.0	100	3,7	63.0	+1.3	54	30	1.03	+0.92	0.70	29	2	+1.7	0.6	—0.2	0	0	0	0	0

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF OCTOBER, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Visibility Code Figure 93 or less: Fog.	Visibility Code Figure 93 or less: Haze (dust).	Visibility Code Figure 93 or less: Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
QUETTA																					
Sibi	97.9	+0.3	107	1,2	66.2	+0.7	57	30,31	0.00	0.00	0.00	—	0	0.0	1.6	−0.7	0	0	0	0	0
KALAT																					
Nokkundi	89.9	−2.3	100	7	59.3	−0.8	42	31	0.00	0.00	0.00	—	0	0.0	x	—	0	0	0	0	0
Turbat	99.5		109	8	x		x	—	0.00		0.00	—	0		x		0	0	0	0	0
Jiwani	89.4		99	11	71.4		61	30	0.00		0.00	—	0		6.3		0	0	0	0	0
Pasni	91.6	+1.1	101	11	x		x	—	0.00	0.00	0.00	—	0	0.0	6.7	+1.6	0	0	0	0	0
KARACHI																					
Ormara	90.5	+1.3	103	11	70.8	0.0	58	31	0.00	0.00	0.00	—	0	0.0	6.3	−1.0	0	0	2	1	0
Lasbela (R)																					
Karachi (Manora)	88.2	+0.9	91	11	73.3	−0.4	64	30	0.00	−0.02	0.00	—	0	−0.1	x	—	0	0	0	0	0
Karachi (Mauripur)	90.9		95	12,23	70.4		58	30	0.00		0.00	—	0		x	—	0	0	0	0	0
Karachi (City)	90.8		96	12	71.0		59	30	0.00		0.00	—	0		2.7	—	0	0	0	0	0
Karachi (Airport)	92.3		100	12	67.8		55	30	0.00		0.00	—	0		4.1		0	0	0	0	0
Gadap	94.2		100	11,12	65.8		55	31	0.00		0.00	—	0		3.0		0	0	0	0	0
HYDERABAD																					
Mithi	99.4		107	10	66.4		57	31	0.00		0.00	—	0		1.6		0	0	0	0	0
Nagarparkar	95.7		101	—	x		x	—	0.00		0.00		0		x		0	0	0	0	0
Umarkot	97.1		103	10,11	66.7		55	31	0.00		0.00	—	0		x		0	0	0	0	0
Chhor	96.4		104	10	62.8		55	31	0.00		0.00	—	0		1.1		0	0	1	0	0
Hyderabad	97.8	0.0	105	9	70.1	−0.1	62	29,31	0.00	−0.03	0.00	—	0	−0.1	1.8	−2.6	0	0	0	0	0
Badin	98.2	+2.2	104	13	71.5	+1.6	57	31	0.00	−0.03	0.00	—	0	−0.1	x	—	0	0	0	0	0
KHAIRPUR																					
Padidan	96.4		103	1	61.2		53	30	0.00		0.00	—	0		3.3		0	0	0	0	0
Nawabshah	96.9		105	9,10	64.1		56	31	0.00		0.00	—	0		1.3		0	0	0	0	0
Sukkur	96.0	0.0	103	1,2	69.8	+0.9	59	29	0.00	−0.01	0.00	—	0	0.0	x		0	0	0	1	0
Kashmore	96.7		98	7,13	69.1		59	27,28	0.00		0.00	—	0		x		0	0	0	0	0
Jacobabad	95.3	−2.2	103	9	68.0	+2.4	56	30	0.00	−0.03	0.00	—	0	−0.1	4.2	+1.4	0	0	0	0	0
JUNAGADH																					
Veraval	x	—	x	—	x	—	x	—	0.00	—	0.00	—	0	—	x	—	0	0	0	0	0
AFGHANISTAN																					
Jalalabad (R)																					
ARABIA																					
Muscat (x)																					
HILL STATIONS																					
KASHMIR																					
Srinagar (x)																					
Gulmarg (x)																					
Gurez (x)																					
Sonamarg (x)																					
Dras (x)																					
Kargil (x)																					
Leh (x)																					
Skardu (x)																					

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF OCTOBER, 1961.

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog. (Visibility Code Figure 93 or less)	Haze (dust). (Visibility Code Figure 93 or less)	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR *(continued)*																					
Misgar	55.8	—	67	6	32.2	—	21	31	0.21	—	0.17	29	1	—	3.7	—	0	0	0	0	0
Aliabad (x)																					
Gilgit (x)																					
RAWALPINDI																					
Murree	64.7	—2.9	72	7,8	46.5	—2.8	34	31	3.83	+2.27	1.52	1	6	+3.3	5.3	+1.7	5	1	0	0	0
PESHAWAR																					
Drosh	79.8	+3.1	93	3	54.5	+1.3	40	29	1.90	+0.63	0.84	29	4	+0.9	3.1	+1.1	3	0	0	0	0
Cherat	77.5	+0.9	85	6	56.1	—2.3	44	31	1.17	+0.61	0.70	14	2	+0.7	(c) 3.7	—1.4	1	0	0	0	0
Kakul	77.1	—	85	1	55.9	—	46	29,30	2.28	—	0.63	1	6	—	x	—	8	0	0	0	0
Balakot	80.3	—	89	7	53.3	—	49	5 days	1.75	—	0.37	29	5	—	x	—	1	0	0	0	0
Landikotal	79.5	—	90	1	53.1	—	41	30	0.38	—	0.18	29	1	—	x	—	2	0	0	0	0
Parachinar	76.2	+2.0	84	1	49.0	+0.3	37	30	1.20	+0.25	0.52	4	2	—0.5	2.4	+0.2	0	0	0	0	0
D. I. KHAN																					
Miranshah	83.1	—0.5	93	1	54.4	+0.1	47	31	0.76	—0.73	0.76	29	1	+1.0	3.7	—0.2	0	0	0	0	0
Wana	81.5	+1.3	92	1	48.8	+1.8	39	30	0.00	—0.12	0.00		0	—0.3	1.1	—	0	0	0	0	0
AFGHANISTAN																					
Kabul (x)																					
Kandahar (x)																					
QUETTA																					
Fort Sandeman (P.T.)	82.6	0.0	92	1,2	54.1	+1.2	45	30,31	0.00	—0.10	0.00	—	0	—0.2	x	—	0	0	0	0	0
Fort Sandeman (P.B.O.)	81.3	—	92	1	52.3	—	44	30,31	0.00	—	0.00	—	0	—	2.5	—	0	0	0	0	0
Hindubagh	76.6	—	88	2	x	—	x	—	0.00	—	0.00	—	0	—	7.1	—	0	0	0	0	0
Loralai	80.5	—	89	1	*	—	24	30	0.00	—0.11	0.00	—	0	—0.3	2.8	—	0	0	0	0	0
Harnai	—	—	—	—	—	—	—	—	0.00	—0.23	0.00	—	0	—0.4	x	—	0	0	0	0	0
Quetta (Samungli)	75.4	—	85	8	34.3	—	22	31	0.00	—	0.00	—	0	—	3.4	—	0	0	0	0	0
Quetta (P. T.)	74.1	—	83	1,3,5	37.2	—	24	30	0.00	—	0.00	—	0	—	1.1	—0.4	0	0	0	0	0
Quetta (P.B.O.)	76.9	—	85	5,8	42.7	—	29	29	0.00	—	0.00	—	0	—	2.6	—	0	0	0	0	0
Chaman	78.9	—0.9	89	8	50.6	—2.9	35	29	0.00	—0.16	0.00	—	0	—0.2	x	—	0	0	0	0	0
Nushki	83.8	—	95	8	59.3	—	39	29,30	0.00	—	0.00	—	0	—	x	—	0	0	0	0	0
Dalbandin	87.5	—1.4	92	8	49.6	—1.3	34	30	0.00	—0.02	0.00	—	0	—0.1	4.1	+1.5	0	0	0	1	0
KALAT																					
Kalat	(a) 72.1	—3.2	80	5,7,8	(a) 36.3	—4.7	22	29,30	0.00	—0.09	0.00	—	0	—0.2	x	—	0	0	0	0	0
Panjgur	83.7	—3.5	95	8	53.2	—2.2	40	31	0.00	—0.01	0.00	—	0	—0.1	x	—	0	0	0	0	0

(a) Mean for 28 days. (c) Data not available. (*) Data rejected.

REGD. No. S. - 1452

PAKISTAN WEATHER REVIEW, 1961

MONTHLY WEATHER REPORT

November

(PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN)

Chief Features

1. Mainly dry weather over East Pakistan during the month.

2. Fairly widespread rainfall in most of the northern divisions of West Pakistan towards the middle of the month and in some of the divisions between the 26th and 27th.

East Pakistan

Mainly dry weather prevailed over the whole of the province throughout the month, except towards the middle of the first fortnight when two westerly low pressure waves moved across the northern areas of the province between the 4th and the 9th. The first one caused scattered light rain or a few thundershowers in Chittagong division between the 4th and the 6th. The second one caused scattered light rain or a few thunder-showers in the province outside Rajshahi division on the 7th and Khulna division on the 8th. While moving away northeastwards it caused scattered to local rain or thundershowers in Chittagong and Dacca divisions on the 9th. Cox's Bazar recorded 1" of rain of the 7th and Srimangal 3/4" on the 9th.

The total rainfall of the month was in large defect.

The temperatures, and relative humidity were all normal.

Skies were less clouded than usual.

West Pakistan

Two western disturbances influenced the weather over the province during the middle of the month. The first of these two was feeble and caused scattered rain in Quetta and Rawalpindi divisions respectively on the 13th and the 14th. The other western disturbance was rather active and caused local to fairly widespread rain or thundershowers in Peshawar division between the 14th and the 16th, in Kalat and Quetta divisions only on the 14th and in Rawalpindi and Lahore Divisions on the 15th. Scattered rain or thundershowers were also reported from Rawalpindi, D.I. Khan and Quetta divisions on the 15th and a few falls of light rain or drizzle from Quetta divisions on the 16th.

Weather remained dry during the rest of the month except between the 26th and the 28th when another western disturbance moving across the northern areas of the province caused fairly widespread rain or thunder-showers in Peshawar and Rawalpindi divisions on the 26th and 27th, scattered to local in Lahore and Multan divisions on the 27th and a few falls of light rain or drizzle in D.I. Khan and Quetta divisions on the 26th, in Sargodha and D.I. Khan divisions on the 27th and only in Rawalpindi division on the 28th.

Noteworthy amounts of rainfall recorded were Turbat 1" on the 14th: Chakdara 1" on the 15th; Kakul 2", Rawalpindi 1½". and Murree and Haripur 1" each on the 16th and Murree and Landikotal 1" each on the 26th.

The total rainfall during the month was in large excess in Rawalpindi, Sargodha, Peshawar and D. I. Khan divisions, normal in Multan, Quetta and Kalat divisions and in large defect elsewhere.

The mean maximum temperature was normal in Kalat, Karachi and Hyderabad divisions, and below normal elsewhere. The mean minimum temperature was below normal in Rawalpindi and Peshawar divisions and normal elsewhere.

The mean relative humidity was normal in Multan, Kalat, Karachi, Hyderabad and Khairpur divisions and in excess over rest of the region. The skies were less clouded than usual in Karachi, and Hyderabad divisions, normal in Lahore, Sargodha, Peshawar and Kalat divisions and more elsewhere.

Table I contains the divisional mean of rainfall, temperature, relative humidity and cloud amount for the 16 divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

TABLE I.—DIVISIONAL MEANS FOR NOVEMBER, 1961.

Division	PRECIPITATION				DEPARTURE FROM NORMAL OF				
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	0300 hrs. G. M. T. Vapour pressure	0300 hrs. G. M. T. Relative humidity	0300 hrs. G. M. T. Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	Mb.	%	
EAST PAKISTAN									
Chittagong	0.41	1.88	—1.47	—78	—0.9	—1.6	—0.7	—3	—0.7
Dacca	0.18	0.98	—0.80	—82	—0.3	—0.9	—0.9	—1	—0.4
Khulna	0.01	1.09	—1.08	—99	—0.7	—0.3	—0.9	—1	—0.9
Rajshahi	0.19	0.60	—0.41	—68	1.2	—0.5	—0.7	—3	—0.5
Mean	0.21	1.19	—0.98	—82	—0.8	—0.9	—0.8	—2	—0.6
WEST PAKISTAN									
Kashmir (x)									
Lahore	0.02	0.10	—0.08	—80	—6.1	+1.9	+0.6	+13	+0.2
Rawalpindi	2.45	0.51	+1.94	+380	—6.7	—2.1	+0.8	+15	+0.5
Sargodha	2.23	0.09	+0.14	+156	—4.6	—0.9	+1.8	+19	—0.2
Multan	0.05	0.05	0.00	0	—3.7	—0.1	—0.7	+3	+0.6
Bahawalpur	0.00	0.01	—0.01	—100	—2.9	+0.3	+2.5	+10	—0.6
Peshawar	1.47	0.35	+1.12	+320	—3.1	—3.1	+1.5	+15	+0.1
D. I. Khan	0.29	0.01	+0.19	+190	—5.3	—0.7	+1.5	+13	+0.3
Quetta	0.13	0.13	0.00	0	—2.8	—0.7	—0.7	—11	+0.3
Kalat	0.10	0.11	—0.01	—9	—1.5	+0.3	0.0	—2	—0.1
Karachi	0.00	0.04	—0.04	—100	+0.5	—1.6	+0.8	+3	—0.7
Hyderabad	0.00	0.12	—0.12	—100	—0.7	—0.1	—0.7	+5	—0.7
Khairpur	0.00	0.03	—0.03	—100	—2.5	+0.3	—0.7	0	+0.4
Mean	0.29	0.13	+0.16	+123	—2.7	—0.5	+0.2	+3	0.0
Junagadh (x)									

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. of 845/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
EAST PAKISTAN	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Chittagong Division																							
Rangamati	0000	208	1007.6		1015.0	68.3	66.9	65.9	22.0		93		2.5		13	0	2	0	0	1	9	5	0
	0300		1009.4		1016.7	73.4	69.5	67.3	22.8		81		2.8		24	0	1	0	2	0	1	2	0
	1200		1006.1		1013.3	76.9	70.4	66.8	22.4		71		x		13	0	2	0	2	1	9	3	0
Cox's Bazar (P.T.)	0030	38																					
	0300		1013.7	+1.0	1015.0	77.0	71.5	68.0	23.9	—1.0	75	—2	1.9	—0.8	7	6	9	4	1	0	0	3	0
	1200		1011.2		1012.5	75.9	70.6	67.0	23.2		76		2.4		11	1	2	1	1	1	3	10	0
Chittagong (Patenga)	0000	20	1013.3		1014.0	66.6	65.4	64.4	20.9		93		2.3		1	9	1	0	0	0	0	0	19
	0300		1015.0		1015.7	74.0	69.3	66.6	22.3		79		1.6		6	18	1	0	0	0	0	0	5
	1200		1012.1		1012.8	76.2	69.7	65.7	21.9		71		1.4		2	1	1	0	0	0	0	6	20
Chittagong	0000	46																					
	0300		1013.9	+0.8	1015.6	76.0	70.2	66.9	22.7	—0.7	73	—8	1.4	—1.2	4	19	1	0	0	0	0	0	6
	1200		1010.8		1012.4	75.0	68.6	64.7	21.0		70		1.3		1	3	0	1	0	0	1	7	17
Maijdee Court	0000	25	1013.2		1014.1	64.9	63.3	62.5	19.1		92		1.2		3	0	0	0	0	0	0	1	26
	0300		1015.1	+1.2	1016.0	74.4	69.0	65.9	21.9	—1.8	76	—4	1.1	—0.7	9	2	0	0	0	0	1	3	15
	1200		1011.6		1012.5	74.7	68.8	65.8	21.5		73		0.8		1	0	0	0	1	0	1	2	25
Comilla (R)	0000	29																					
	0300																						
	1200																						
Brahmanbaria	0000	32	1013.0		1014.1	66.3	64.9	63.9	20.4		93		2.1		1	5	0	1	1	2	3	0	17
	0300		1015.0		1016.1	74.1	69.5	66.7	22.6	—0.5	79	+9	1.7		10	10	0	1	2	2	0	0	5
	1200		1011.6		1012.7	75.5	69.8	66.8	22.3		75		1.4		3	1	0	0	0	1	0	0	25
Sylhet (P.B.O.)	0000	115	1010.0		1014.1	63.6	62.3	61.2	18.6		93		2.6		0	1	14	1	0	0	0	0	14
	0300		1011.8	—	1015.9	72.7	67.9	65.2	21.2	—	76	—	2.3	—	0	1	25	1	0	0	0	0	3
	1200		1008.2		1012.3	73.7	67.8	64.1	20.6		72		1.8		0	0	1	1	0	0	6	0	22
Srimangal	0000	77	1010.6		1013.4	59.4	58.6	58.0	16.4		95		1.8		0	0	1	0	0	0	0	0	29
	0300		1012.7	—0.1	1015.4	75.2	69.4	66.0	21.9	+0.5	73	—10	1.9	—0.1	4	2	5	1	0	1	2	0	15
	1200		1009.6		1012.3	*	*	*	*		*		0.2		1	0	3	1	1	0	0	0	24
Dacca Division																							
Mymensingh	0000	62	1012.3		1014.5	64.3	62.9	61.9	18.9		93		1.2		0	0	0	0	0	0	1	0	29
	0300		1014.3	+1.1	1016.5	71.7	67.9	65.5	21.6	—0.2	81	+2	1.1	—0.8	0	1	3	10	0	0	4	0	12
	1200		1010.8		1013.0	76.4	69.1	64.6	21.0		67		1.4		0	0	0	0	0	0	2	0	28
Jamalpur (R)	0000																						
	0300																						
	1203																						
Narayanganj	0000	26	1013.2		1014.2	66.1	64.7	63.8	20.2		92		1.7		0	0	0	0	0	0	0	1	29
	0300		1015.2	+1.2	1016.1	74.5	68.4	64.4	21.0	—0.9	72	—2	1.6	—0.5	0	0	1	0	0	0	0	4	25
	1200		1011.7		1012.6	76.1	68.5	63.9	20.4		66		1.7		1	0	0	0	0	0	0	1	28
Dacca (Tejgaon)	0000	32	1012.5		1013.6	62.5	61.9	61.5	18.3		96		1.6		5	1	0	0	0	1	0	4	19
	0300		1014.5		1015.6	73.1	68.0	65.1	21.4		76		1.4		5	4	1	0	0	0	1	4	15
	1200		1011.2		1012.3	73.4	67.1	63.1	19.8		71		1.5		3	0	1	0	0	1	3	9	13

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb	Mb.	%	%	oktas										
DACCA DIVISION (contd.)																							
Faridpur	0000	46	1013.0		1014.7	64.8	63.5	62.3	19.4		92		1.7		5	10	1	0	0	0	0	3	11
	0300		1014.1	+0.8	1015.7	73.9	67.7	64.5	20.4	—1.5	74	—3	1.5	+0.1	11	6	1	0	0	0	0	7	5
	1200		1011.3		1012.9	75.6	69.1	65.1	21.4		70		1.2		1	0	1	0	0	0	0	1	27
KHULNA																							
Barisal	0000	11	1014.0		1014.4	66.9	64.7	63.6	19.7		90		0.7		6	0	0	0	0	0	0	0	24
	0300		1015.6	+1.3	1016.0	75.5	69.6	66.5	22.0	—1.3	74	—1	1.2	—0.6	10	2	2	0	1	0	0	0	15
	1200		1012.3		1012.7	78.6	70.4	65.8	21.7		66		1.8		0	1	0	0	0	0	1	0	28
Khulna	0000	16	1013.9		1014.5	65.6	63.6	62.3	19.2		89		1.0		0	0	0	0	0	0	1	0	30
	0300		1015.7	+1.0	1016.2	75.7	68.4	64.1	20.4	—0.2	67	0	0.9	—1.3	0	1	0	0	0	0	0	0	29
	1200		1012.1		1012.6	75.9	68.6	64.4	20.5		68		0.8		0	0	0	0	0	0	0	0	30
Satkhira	0000	16	1014.6		1015.2	62.8	61.5	60.3	18.4		92		1.6		0	0	0	0	0	0	0	0	30
	0300		1016.1	+1.6	1016.7	73.5	66.8	62.6	19.5	—1.3	60	—4	1.2	—1.0	1	0	0	0	0	0	0	0	29
	1200		1012.4		1012.9	77.7	69.7	65.0	21.2		67		2.5		0	0	0	0	0	0	0	0	30
Jessore (P.T.)	0000	26	1012.9		1013.8	61.8	60.8	59.8	17.8		94		1.6		1	0	0	0	0	0	0	0	29
	0300		1015.3	+0.9	1016.2	71.4	66.5	63.4	20.0	—0.9	76	+2	0.9	—0.7	5	6	0	0	0	0	6	3	10
	1200		1011.9		1012.8	75.0	63.3	64.3	20.6		70		1.8		18	1	0	0	0	0	4	0	7
RAJSHAHI																							
Pabna	0000	48	1012.5		1014.2	63.1	62.1	61.4	18.6		94		1.2		1	0	0	0	0	0	0	4	25
	0300		1014.6		1016.2	72.0	66.9	63.6	20.2	—1.2	76	+1	1.0	—	4	1	0	0	0	1	1	20	3
	1200		1011.1		1012.8	73.8	67.8	64.2	20.5		72		0.8		0	0	0	0	0	0	0	0	30
Ishurdi	0000					61.3	60.6	59.5	17.8	—	94	—	1.6		8	2	3	0	2	1	3	11	0
	0300					72.2	66.7	63.2	19.9		74		1.2		10	5	1	1	0	2	3	8	0
	1200					72.2	67.2	64.2	20.5		76		1.7		4	1	1	0	2	2	8	12	0
Serajganj	0000	51	1012.3		1014.2	63.5	62.7	61.5	19.1		94		1.4		0	0	0	0	0	0	0	0	30
	0300		1014.2		1016.0	73.1	68.3	65.4	21.5		77		1.3		0	1	0	0	0	0	0	0	29
	1200		1010.6		1012.4	73.4	68.3	65.3	21.3		76		0.8		0	0	0	0	0	0	0	1	29
Rajshahi (R)	0000																						
	0300																						
	1200																						
Bogra (P.B.O.)	0000	65	1011.7		1014.1	63.3	62.5	61.7	18.9		95		1.4		2	1	0	1	0	0	3	1	22
	0300		1013.9	+0.9	1016.2	71.1	67.0	64.4	20.8	+0.4	80	+3	1.2	—0.2	9	8	1	1	1	1	2	4	3
	1200		1010.4		1012.7	74.8	69.4	66.2	22.0		75		1.2		0	2	0	0	0	4	1	0	23
Dinajpur	0000	123	1010.1		1014.6	61.1	59.8	58.5	17.0		92		0.7		0	0	0	0	0	0	0	0	30
	0300		1012.0	+0.6	1016.3	72.9	65.4	60.6	18.0	—1.4	65	—12	0.6	—0.7	0	0	0	0	0	0	0	0	30
	1200		1008.4		1012.7	75.6	67.5	62.2	19.4		64		0.6		0	0	0	0	0	0	0	0	30
Rangpur	0000	113	1011.5		1015.7	61.7	60.6	59.6	17.3		94		1.6		7	4	0	0	0	0	0	0	19
	0300		1012.8		1016.9	70.0	66.2	63.8	20.4		81		1.4		6	18	3	0	0	1	1	0	1
	1200		1009.4		1013.4	72.9	67.8	64.6	20.9		75		1.4		0	0	0	0	0	0	0	0	30

(R) Register not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and MSL or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
KASHMIR																							
Jammu (x)	0300	1200																					
	1200																						
LAHORE																							
Lahore (P.B.O.)	0000	702	991.1		1016.7	51.4	49.6	47.7	11.3		87		(b) 0.7		0	0	1	2	0	0	0	2	25
	0300		992.7	+1.4	1018.2	55.4	51.7	48.0	11.4	+0.6	76	+13	1.3	+0.2	3	1	1	2	0	0	0	0	23
	1200		990.5		1015.1	70.9	60.3	51.8	13.1		51		1.9		0	1	0	0	0	0	0	3	26
.. (Cantt)	0000	709	990.4		1016.4	51.4	49.7	48.1	11.4		88		0.9		1	2	1	0	0	0	2	0	24
	0300		992.0	—	1017.7	55.2	52.0	48.8	11.8	—	79	—	1.6	—	0	2	1	1	1	1	1	5	18
	1200		989.7		1014.4	71.7	59.7	49.5	12.1		46		2.0		3	0	2	0	0	0	0	7	18
Sialkot (R)...	0000	830																					
	0300																						
	1200																						
RAWALPINDI																							
Jhelum	0000	767	988.5		1016.6	50.1	48.4	46.5	10.8		87		1.9		2	1	0	0	0	0	0	5	22
	0300		990.2	—	1018.1	53.9	50.4	46.6	10.9	—	77	—	1.8	—	1	0	3	0	0	0	0	9	17
	1200		987.8		1014.7	69.5	59.1	50.0	12.5		50		2.2		0	1	1	1	1	0	9	9	8
Chakiala	0000	1667	953.1		1018.3	46.5	45.0	43.5	9.6		89		1.8		3	2	1	0	0	0	4	4	16
	0300		959.4	—	1019.5	48.3	46.3	44.3	9.9	—	85	—	1.8	—	3	3	0	0	0	0	4	6	14
	1200		957.4		1015.3	66.1	54.2	42.8	9.5		43		2.7		0	2	1	0	1	1	17	3	5
Rawalpindi	0000	1675	957.8		1018·4	46.5	45.0	43.7	9.6		89		1.2		1	0	1	0	0	0	1	0	27
	0300		959.2	+0.9	1019.6	48.5	46.9	45.2	10.3	+1.9	89	+27	1.8	+0.6	2	0	0	0	0	0	2	2	24
	1200		957.2		1015.6	64.1	54.9	46.7	11.0		54		3.2		0	1	0	0	0	1	13	1	4
Cambelipur...	0300	1175	976.2		1018.8	51.1	47.2	42.8	9.4		72		1.7		1	1	0	0	0	0	0	0	28
	1200		974.1	—	1014.9	68.6	57.2	46.0	10.9	—	45	—	1.8	—	0	1	0	0	0	0	0	1	28
SARGODHA																							
Khushab	0000	616	*		*	*	*	—	—		—		0.6		0	1	8	0	0	0	1	0	20
	0300		995.4	+0.3	1017.8	55.8	50.8	45.5	10.4	+2.1	69	+18	1.0	—0.1	0	1	3	0	0	0	0	0	26
	1200		993.6		1015.1	75.3	59.8	45.5	10.6		35		1.0		0	3	4	0	0	0	2	0	21
Sargodha	0000	617	994.4		1016.9	49.0	47.1	45.0	10.2		85		1.3		2	5	3	0	1	6	5	2	5
	0300		995.8	—	1018.3	52.7	49.1	45.2	10.3	—	76	—	1.7	—	2	3	5	1	1	5	3	1	9
	1200		993.6		1015.2	72.1	58.6	46.1	10.8		40		2.1		4	7	2	0	0	5	6	2	4
Mianwali	0000	679	*		*	50.1	46.9	43.4	9.5		78		1.2		0	0	0	0	0	0	0	0	30
	0300		*	—	*	53.2	48.8	44.0	9.8	—	70	—	1.4	—	0	0	0	0	0	0	0	0	30
	1200		*		*	70.1	57.9	47.1	11.0		43		1.4		0	1	0	0	0	0	0	0	29
Lyallpur	0000	605	994.8		1017.0	51.1	49.6	47.9	11.4		89		0.4		0	1	0	1	0	0	0	0	28
	0300		996.0	+1.3	1018.0	53.8	51.1	48.5	11.6	+1.5	82	+20	1.0	—0.3	0	1	0	0	1	0	0	0	28
	1200		993.9		1015.0	74.4	60.1	47.0	11.3		39		1.0		0	1	1	1	0	1	0	0	26
MULTAN																							
Montgomery	0000	558	(e) 996.0		(e) 1016.5	50.5	48.6	46.4	10.9		86		0.7		0	1	0	2	0	0	0	0	27
	0300		997.9	+1.3	1018.1	56.9	52.5	48.1	11.6	+0.5	72	+8	1.4	+0.6	1	3	0	5	0	0	0	3	18
	1200		995.6		1015.1	74.0	61.4	51.4	13.5		45		1.2		0	0	0	0	0	1	0	0	29
Multan (P.B.O.)	0000	404	1001.5		1016.6	51.9	48.7	45.6	10.3		78		0.9		4	0	0	1	0	1	0	0	24
	0300		1003.3	—	1018.2	54.3	50.0	45.5	10.4	—	70	—	1.4	—	1	3	0	2	1	0	0	1	22
	1200		1000.7		1015.0	74.8	60.1	47.1	11.2		38		1.5		0	1	0	1	3	0	0	0	25

(b) Mean for 29 days. (e) Mean for 26 days. (*) Data rejected. (R) Data not received. (x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb	%	%	oktas										
Multan (Surface)	0300	413	1003.1	+1.5	1018.0	59.3	52.4	45.3	10.3	—1.8	59	—3	1.4	+0.6	3	0	0	0	0	0	0	0	27
	1200		1000.3		1014.7	75.9	59.0	45.7	10.4		34		1.7		0	0	0	0	0	0	0	0	30
Leiah (R)	0000	497																					
	0300																						
	1200																						
BAHAWALPUR																							
Khanpur (P.B.O.)	0000	290	1005.2		1015.9	51.8	49.2	46.4	10.7		83		0.6		3	2	1	0	1	0	0	0	23
	0300		1007.0		1017.2	59.0	52.5	46.2	10.6		62		0.8		1	5	0	0	0	1	1	0	22
	1200		1004.1		1014.3	77.1	62.2	50.1	10.5		39		1.3		1	0	0	0	0	0	0	0	21
Bahawalpur	0300	384	1002.9	+0.6	1016.7	61.5	56.5	52.5	13.3	+2.5	71	+10	0.3	—0.6	0	0	0	1	0	2	0	0	27
	1200		*		*	79.0	68.2	62.0	18.7		55		0.7		0	0	0	0	0	0	0	0	30
Fort Abbas	0000	475	*		*	56.6	50.6	43.8	9.9		63		0.0		11	4	3	0	0	0	0	2	10
	0300		1001.1		1018.2	61.2	53.6	45.3	10.6		58		0.0		0	5	6	5	1	1	1	1	10
	1200		998.5		1015.0	76.1	62.0	50.8	12.7		41		0.0		17	3	2	0	0	0	1	1	6
PESHAWAR																							
Chakdara	0000	2107	939.5		1018.3	44.9	42.1	38.1	8.1		78		0.6		1	0	0	1	1	0	1	0	16
	0300		941.0	—	1019.5	47.4	43.6	38.8	8.2	—	72	—	0.8		5	0	0	0	1	0	1	0	23
	1200		938.1		1014.1	62.6	52.8	43.4	9.7		50		0.8		0	0	3	0	5	0	3	0	19
Peshawar	0000	1177	975.5		1018.2	49.2	46.2	43.3	9.3		78		1.3		0	0	0	6	3	5	0	0	16
	0300		976.8	+0.6	1019.5	49.7	46.7	43.0	9.5	+2.1	78	+25	(b) 2.6	+0.4	0	0	0	0	6	1	0	0	23
	1200		974.5		1015.7	66.5	56.3	46.7	10.9		49		2.7		1	1	1	1	0	2	0	1	23
Risalpur	0000	1047	980.2		1018.2	46.4	45.7	44.8	10.1		94		1.4		0	1	0	0	0	1	6	1	21
	0300		981.2	—	1019.1	48.6	46.9	45.1	10.2	—	88	—	2.1		0	0	0	0	0	0	3	1	26
	1200		978.8		1015.3	67.1	56.8	47.1	11.2		49		2.6		2	2	2	0	0	3	5	0	16
Haripur	0300	1757	(c) 955.8	—	(c) 1016.4	52.1	46.7	40.3	8.8	—	65	—	1.7		0	0	0	2	3	18	5	2	0
	1200		(c) 954.5		(c) 1015.4	(e) 67.0	(e) 56.2	47.1	11.1		48		2.0		1	4	1	4	3	10	0	3	0
Kohat	0000	1643	958.3		1018.3	53.8	47.5	40.2	8.7		61		1.2		3	1	0	0	0	0	0	22	4
	0300		959.5	—	1019.4	55.4	47.7	38.9	8.2	—	54	—	2.0	—	1	2	1	0	0	0	1	18	7
	1200		957.7		1016.0	68.1	54.8	41.8	9.4		40		2.4		0	5	2	3	1	0	1	0	13
D. I. KHAN																							
Bannu	0000	1269	971.7		1017.8	50.5	47.1	43.4	9.7		77		0.8		0	0	0	0	0	0	0	1	29
	0300		973.0	—	1018.7	51.3	47.4	42.9	9.6	+1.5	74	+22	1.6	+0.6	0	0	0	0	0	0	2	1	27
	1200		970.4		1014.4	71.0	58.4	48.4	11.6		45		1.9		0	1	0	1	1	0	0	0	27
D. I. Khan	0000	570	995.8		1016.7	51.8	49.6	47.4	11.1		85		0.3			0	0	0	0	0	0	0	30
	0300		997.5	+1.2	1018.3	54.5	51.2	48.4	11.3	+1.4	78	+12	1.0	0.0	0	1	0	0	0	0	0	0	29
	1200		(a) 994.5		(a) 1014.4	74.1	62.8	55.3	14.4		50		1.4		0	3	0	0	0	0	0	0	27
AFGHANISTAN																							
Jalalabad (x)	0000	1950																					
	0300																						
	1200																						

(a) Mean for 30 days. (b) Mean for 29 days. (c) Mean for 28 days. (d) Mean for 27 days. (e) Mean for 26 days. (*) Data missing. (x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
QUETTA																							
Sibi	0000	441	1000.7		1016.7	56.5	*	*	*	*	*		0.5		3	5	1	0	0	0	0	2	19
	0300		1002.0	+2.2	1018.1	56.2	*	*	*	*	*		1.2	0.0	1	2	0	1	0	2	1	8	15
	1200		999.2		1014.5	78.9	*	*	*	*	*		1.1		1	1	1	1	6	7	1	3	9
KALAT																							
Nokkundi	0000	2229	939.4		1018.1	53.1	42.9	27.9	5.4		38		0.7		10	7	2	0	0	0	2	8	1
	0300		941.2		1019.6	55.4	45.3	31.6	6.3	+0.6	41	—1	0.9	—0.7	10	3	6	1	2	1	1	6	0
	1200		937.9		1013.0	77.3	57.5	39.7	8.2		28		0.9		3	0	6	5	6	3	3	2	2
Turbat	0000	510	997.1		1015.5	61.8	53.1	42.3	9.9		52		0.6		0	1	4	0	0	0	0	0	25
	0300		998.6		1016.8	66.0	54.1	38.9	9.0		41		0.3		0	2	12	2	0	0	0	0	14
	1200		994.8		1012.2	86.4	62.8	41.0	8.9		22		0.2		2	3	1	1	1	7	11	1	3
Iiwani	0000	185	1009.0		1015.5	67.9	62.6	58.8	17.0		75		0.8		7	4	1	0	0	0	2	3	13
	0300		1010.2		1016.8	68.3	62.8	58.0	17.0		73		1.7		11	6	0	0	0	0	1	4	8
	1200		1007.8		1014.2	79.5	66.4	56.5	16.2		48		1.1		0	0	0	5	10	10	5	0	0
Pasni	0000	28	1014.2		1015.2	63.4	59.0	54.8	15.0		77		1.3		1	2	0	0	1	2	10	10	4
	0300		1015.5	+0.6	1016.5	65.4	60.1	56.2	15.3	+0.1	74	+5	1.4	+0.4	3	2	1	0	0	1	7	8	8
	1200		1012.7		1013.7	80.8	69.3	61.1	19.2		53		1.4		0	0	1	8	10	8	3	0	0
KARACHI																							
Ormara	0000	15	1014.5		1015.0	63.3	60.2	57.6	16.4		81		0.4		0	0	0	2	0	0	1	1	26
	0300		1015.5	—	1016.0	66.8	62.7	58.7	19.0	+1.2	78	+5	0.3	—0.9	0	0	2	0	0	0	0	2	26
	1200		1012.7		1013.2	81.6	65.9	53.7	14.7		39		3.6		0	0	2	0	9	8	11	0	0
Lasbela (R)	0000	292																					
	0300			—																			
	1200																						
Karachi (Manora)	0000	13	1014.2		1014.7	67.4	61.1	56.2	15.5		68		0.8		2	22	2	0	0	0	1	0	3
	0300		1015.8	+0.6	1016.3	69.0	62.5	57.7	16.4	+0.4	68	+2	0.8	—0.4	2	21	1	0	0	0	1	0	5
	1200		1012.5		1013.0	83.0	76.3	72.7	27.9		72		1.5		1	2	0	1	1	6	18	1	0
Karachi (Mauripur)	0000	52	1012.8		1014.6	63.1	56.8	50.4	13.0		66		0.4		11	5	1	0	0	1	1	0	11
	0300		1014.2		1016.0	65.2	56.7	47.8	11.9		57		0.7		7	0	1	0	0	0	0	1	12
	1200		1011.6		1013.4	82.1	65.0	50.6	13.4		37		0.8		0	2	3	0	2	16	5	2	0
Karachi (City)	0300	20	1015.1		1015.8	66.2	58.2	50.6	13.0		59		0.5		19	1	2	0	0	0	2	0	6
	1200		1012.1		1012.8	81.4	66.1	54.4	15.0		42		0.5		1	5	2	0	2	9	9	2	0
Karachi (Airport)	0000	73	1012.2		1015.0	60.0	54.0	47.5	11.6		65		0.5		1	6	0	0	0	0	3	1	17
	0300		1014.0		1016.7	63.7	55.6	47.6	11.4		57		0.4		8	6	1	0	0	0	0	1	14
	1200		1010.8		1013.4	82.2	63.2	45.5	11.2		31		1.0		0	5	3	0	3	15	3	0	1
Gadani	0300		x		x	69.2	61.1	54.5	14.7	...	61	...	0.7	...	20	0	6	0	0	1	0	0	3
	1200		x		x	81.2	62.7	47.0	11.1		31		0.6		4	7	3	1	1	11	3	0	0
HYDERABAD																							
Mithi	0000	96	1011.2		1014.7	55.2	50.5	45.4	10.4		70		0.0		0	1	0	0	0	0	0	0	29
	0300		1012.5		1016.0	60.3	53.4	46.3	10.8		61		0.0		0	0	0	0	0	0	0	0	30
	1200		1009.1		1012.4	85.8	65.5	48.6	12.3		29		0.0		0	14	0	0	1	2	0	4	9
Nagarparkar	0000	178	1008.6		1014.3	64.8	57.8	51.1	12.2		63		0.0		0	0	0	0	0	1	0	1	28
	0300		1009.9		1016.2	68.5	60.1	53.0	13.8		60		0.0		2	1	0	1	1	0	0	1	24
	1200		1006.7		1012.7	84.7	72.1	65.0	21.3		54		0.2		2	4	5	7	1	1	3	2	5

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and MSL or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Umerkot	0000	55	1012.2		1014.1	56.1	50.2	43.0	9.7		63		0.0		9	13	1	0	2	1	0	0	4
	0300		1014.0		1016.0	61.0	53.5	45.9	10.6	—	58		0.5	—	8	8	1	1	4	1	0	1	6
	1200		1010.6		1012.5	83.9	65.5	51.6	13.0		33		0.6		12	3	0	0	1	0	5	9	0
Chhor	0000	19	1013.7		1014.4	51.6	48.1	43.9	9.9		76		0.3		0	5	0	0	0	0	0	0	25
	0300		1015.7		1016.5	61.2	52.0	41.1	9.3		50		0.8		1	9	0	0	0	1	0	0	19
	1200		1012.0		1012.7	83.9	62.2	40.0	9.5		24		1.0		3	9	1	0	0	2	2	0	13
Hyderabad	0000	98	1011.6		1015.3	61.9	55.2	48.4	12.0		61		0.4		13	2	0	0	0	1	0	0	14
	0300		1013.4	+1.2	1017.0	63.8	56.0	48.0	11.7	—0.3	57	+2	0.4	—0.5	14	2	0	0	0	1	0	0	13
	1200		1010.0		1013.4	82.7	63.6	47.2	11.8		30		0.4		10	3	0	0	0	2	0	0	15
Badin	0000	31	1013.7		1014.8	60.4	55.3	51.0	12.7		72		0.0		27	1	0	0	0	0	0	2	0
	0300		1015.9	+2.1	1017.0	61.4	55.8	50.3	12.8	—1.0	69	+9	0.0	—1.0	22	0	0	0	0	1	0	0	7
	1200		1012.4		1013.7	84.4	64.6	46.4	11.7		30		0.0		20	0	0	0	0	0	0	2	8
KHAIRPUR																							
Padidan	0000	153	1009.9		1015.5	52.6	49.9	46.8	11.0		81		0.2		6	2	0	0	0	0	0	0	22
	0300		1011.7		1017.3	54.5	51.3	47.4	11.5		77		0.6		4	0	0	1	1	0	0	6	18
	1200		1008.6		1013.9	81.1	61.2	42.5	9.8		26		0.6		7	6	0	1	1	0	1	7	7
Nawabshah	0000	124	1011.8		1016.2	54.5	50.3	46.2	10.3		72		0.3		0	0	0	0	0	0	0	0	30
	0300		1013.7		1018.4	56.2	51.8	47.3	11.2		72		0.5		0	0	0	0	0	0	1	3	26
	1200		1010.6		1015.0	82.1	62.2	44.3	9.9		27		0.7		1	1	0	0	0	0	0	1	27
Sukkur	0300	221	(b) 1009.2	+1.1	(b) 1017.2	63.1	55.4	47.4	11.5	—0.6	58	0	0.8	+0.2	2	2	0	11	10	0	0	0	5
	1200		1006.4		1014.0	80.8	63.4	49.2	12.1		33		0.5		12	6	0	3	(b) 3	2	0	2	1
Kashmore	0000	225	1006.9		1016.1	60.3	52.9	43.8	10.3		57		0.3		0	0	0	0	0	0	0	0	30
	0300		1008.5		1017.6	64.6	53.9	48.3	9.9		54		0.3		0	4	0	0	0	0	0	0	26
	1200		1006.3		1015.2	81.4	60.7	39.7	8.8		24		0.3		0	2	0	0	0	0	0	0	28
Jacobabad	0000	183	1009.1		1015.6	58.2	52.5	46.1	10.8		66		0.3		3	3	9	4	0	0	1	2	8
	0300		1011.1	+1.5	1017.7	60.2	52.8	44.9	10.3	—0.9	58	0	0.9	+0.2	2	3	3	5	1	1	0	2	13
	1200		1008.0		1014.4	80.3	61.4	44.0	10.3		28		1.0		1	3	0	0	2	6	0	2	7
JUNAGADH																							
Veraval	0300	26	(c) 1013.8		(c) 1016.5	(c) 73.0	(c) 60.5	(j) 49.7	(j) 12.4		(j) 45		(c) 1.1		11	10	0	0	(c) 1	0	2	2	2
	1200		(l) 1000.9		( ) 1013.9	(l) 82.3	(m) 73.8	(m) 68.8	(m) 24.6		(m) 65		(l) 1.9		1	0	1	(l) 0	4	2	9	1	1
ARABIA																							
Muscat	0300																						
	1200																						
HILL STATIONS: KASHMIR																							
Srinagar (x)	0000																						
	0300																						
	1200																						

(x) Data not available. (c) Mean for 28 days. (j) Mean for 21 days. (b) Mean for 29 days. (m) Mean for 16 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Gulmarg (x)	0300	...																					
	1200																						
Gurez (x)	0300	...																					
	1200																						
Sonamarg (x)	0300	...																					
	1200																						
Dras (x)	0300	...																					
	1200																						
Kargil (x)	0300	...																					
	1200																						
Leh (x)	0000	...																					
	0300																						
	1200																						
Skardu	0000	7250																					
	0300																						
	1200																						
Misgar	0000	10190	(x)		(x)	—	—	—	—														
	0300		(b) 702.6	—	(b) 3132.5	22.6	19.3	11.4	2.5	—	61	—	1.6	—	0	1	1	0	0	1	2	3	22
	1200		700.3		3106.7	33.7	28.7	20.0	3.8		59		2.2		0	2	6	3	0	0	4	0	15
Aliabad (x)	0300	—																					
	1200																						
Gilgit (x)	0000	4590																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	784.9		1511.8	41.8	37.1	30.6	5.8		65		2.3		0	0	2	10	0	0	0	12	6
	0300		787.0	—0.5	1531.7	43.4	35.4	21.8	4.2	—0.3	44	+4	2.1	+0.5	2	5	6	7	1	0	2	1	6
	1200		786.0		1518.5	45.4	38.6	29.5	5.5		54		3.6		1	2	4	4	0	0	7	7	5
PESHAWAR																							
Drosh	0000	4806	858.0		1540.9	43.7	37.5	27.3	5.1		53		1.5		0	0	0	0	0	5	1	0	24
	0300		859.1	—0.1	1550.7	42.5	36.7	27.1	5.1	0.0	55	+2	1.9	+0.2	0	0	2	3	0	0	0	0	25
	1200		855.7		1519.8	54.9	42.9	24.2	4.7		31		2.4		0	3	2	14	1	3	0	0	7
Chitral	0000	4272	*		*	*	*		*		–		1.3		2	7	0	0	0	3	0	15	3
	0300		871.9	—1.6	1511.3	51.0	45.0	37.4	7.8	+2.1	61	+17	1.3	—0.1	3	12	0	2	0	4	0	8	1
	1200		*		*	55.9	49.0	42.0	9.1		60		1.8		2	13	0	1	0	0	0	12	2
Kakul	0000	4214	874.5		1516.9	46.6	40.3	31.2	6.0		55		1.5		11	8	0	0	1	1	1	8	0
	0300		875.8		1529.8	49.1	42.2	32.5	6.4	—	53	—	1.9	—	10	7	2	1	1	0	1	8	0
	1200		874.5		1521.1	56.5	47.2	36.3	7.4		47		2.6		2	0	1	5	14	1	1	6	0
Balakot	0000	3226	(x)		(x)	44.7	41.7	36.5	7.8		77		1.1		3	1	0	0	0	0	0	1	25
	0300		(x)		(x)	43.7	40.9	36.8	7.6		77		1.4		2	2	0	0	0	0	0	0	26
	1200		(x)		(x)	57.0	48.4	39.2	8.2		52		1.8		2	2	0	1	0	0	0	2	23
Landikotal	0000	3503	896.5		1497.8	41.6	39.5	36.3	7.4		84		1.5		0	0	0	0	0	0	0	0	30
	0300		897.6	—	1510.9	44.6	40.8	35.4	7.1	—	70	—	1.9	—	0	0	0	0	0	2	0	0	28
	1200		895.9		1510.4	60.0	49.5	38.3	7.3		44		1.8		0	2	0	4	0	8	0	0	16

(x) Data not available. (b) Mean for 29 days. (*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Direction Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Parachinar	0000	5673	*		*	*	*	—	—		—		1.3		0	0	0	0	0	0	0	0	30
	0300		*	—	*	(d) 40.5	*	—	—	—	—	—	1.2	—0.3	0	1	0	1	0	0	0	0	28
	1200		*		*	(e) 57.2	*	—	—		—		2.2		0	0	0	30	0	0	0	0	0
D. I. KHAN																							
Miranshah	0000	3026	*		*	44.5	38.6	29.4	5.7		55		1.1		0	0	0	0	0	0	0	0	30
	0300		*	—	*	46.9	41.0	31.4	6.4	+2.1	57	+18	1.1	—0.1	0	0	0	0	0	0	0	0	30
	1200		*		*	65.9	52.5	39.2	8.2		37		1.3		0	2	0	0	0	0	0	0	29
Wana	0300	4503	*	—	*	44.3	37.8	27.2	5.1	+0.9	51	—2	1.3	+0.5	0	0	0	0	0	1	0	0	29
	1200		*		*	61.2	47.5	28.7	5.7		31		1.7		0	1	0	3	0	2	0	0	24
AFGHANISTAN																							
Kabul (x)	0300	5955																					
	1200																						
Kandahar (x)	0300	3462																					
	1200																						
QUETTA																							
Fort Sandeman (P.T.)	0300	4614	864.1	+0.7	1540.4	45.2	36.7	20.7	4.0	—0.1	40	—15	1.0	0.0	0	1	0	0	1	0	0	1	27
	1200		861.6		1520.9	65.1	47.1	18.8	3.8		19		1.9		2	2	0	0	0	2	5	2	17
,, (P.B.O.)	0000	4615	863.1		1529.8	41.6	35.0	22.5	4.3		48		1.0		0	0	0	4	0	1	0	0	25
	0300		864.3		1541.2	45.0	36.7	20.5	4.1		39	—	1.2	—	0	0	2	7	2	1	0	0	18
	1200		861.6		1520.3	63.8	46.8	19.3	3.9		20		1.7		0	5	0	1	1	3	4	5	11
Hindubagh	0000	5909	821.6		1523.7	37.5	30.1	17.5	3.1		44		0.8		0	0	0	0	0	2	20	0	8
	0300		822.4		1527.8	40.6	32.1	16.1	3.2		38		1.2		0	0	0	0	0	1	24	0	5
	1200		820.0		1594.0	59.6	43.8	21.0	4.1		23		2.2		0	0	3	0	0	10	16	0	1
Loralai	0000	4699	858.9		1515.2	39.4	35.5	28.4	5.5		63		1.1		4	3	2	1	1	3	1	0	15
	0300		860.1		1528.0	43.7	38.2	28.2	5.6		57		1.8		2	0	0	0	9	2	12	10	4
	1200		857.4		1507.8	61.9	46.8	20.6	5.0		26		2.7		0	0	2	14	7	1	2	1	3
Harnai	0300		*	—	*	*	*	*	*	—	*	—	*	—	*	*	*	*	*	*	*	*	*
	1200		*		*	*	*	*	*		*		*		*	*	*	*	*	*	*	*	*

(x) Data not available. (d) Mean for 27 days. (e) Mean for 26 days. (*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1961

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. over geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directons Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Quetta (Samungli)	0000	5213	844.1		1533.6	31.2	28.2	23.4	4.2		9		1.1		0	0	5	8	0	0	0	0	17
	0300		845.5		1544.2	34.2	30.5	23.8	4.5		65		2.2		1	2	2	4	1	0	0	0	20
	1200		843.3		1520.0	59.4	44.3	22.3	4.6		27		2.6		4	0	1	0	0	1	4	19	1
,, (P.T.)	0300	5490	836.5	—1.0	1539.2	43.9	34.6	18.2	3.5	—0.9	37	—18	1.6	+0.4	0	1	0	1	2	1	0	0	25
	1200		834.3		1513.1	59.4	46.9	33.8	2.9		19		2.2		3	0	0	0	1	0	0	9	17
,, (P.B.O.)	0000	5560	833.8		1572.0	36.6	30.5	20.1	3.0		49		0.5		0	1	2	0	1	0	1	1	24
	0300		834.5	—	1579.9	38.9	32.0	19.3	3.2	—	48	—	2.0	—	1	2	12	8	1	0	1	0	5
	1200		833.3		1557.8	54.3	44.1	23.2	12.0		26		2.7		1	0	0	0	1	2	0	5	21
Chaman	0000	4311	872.0		1523.2	45.7	35.9	16.5	3.3		34		1.2		*	*	*	*	*	*	*	*	*
	0300		872.9	—0.5	1531.8	49.5	38.2	16.5	3.3	—1.6	31	—11	1.3	+0.3	*	*	*	*	*	*	*	*	*
	1200		870.5		1514.2	63.0	45.7	16.6	3.6		19		2.3		*	*	*	*	*	*	*	*	*
Nushki	0000	3416	905.9		1566.0	52.0	43.8	32.4	6.4		50		0.5		0	1	22	0	0	0	0	1	6
	0300		906.0		1572.4	57.4	47.3	34.2	7.1		42		0.9		0	0	20	0	1	0	0	1	8
	1200		903.4		1560.5	68.9	55.0	41.6	9.2		39		1.7		0	0	0	0	3	1	10	8	8
Dalbandin	0000	2788	921.3		1503.1	43.7	36.6	23.6	4.5		47		1.1		5	10	6	0	0	0	1	1	7
	0300		922.9	+0.5	1518.3	44.7	37.4	23.1	4.7	—0.2	45	—2	1.7	+0.7	2	18	0	1	0	0	0	2	7
	1200		920.3		1530.7	71.8	51.9	25.9	5.2		20		1.8		0	13	2	7	2	4	1	1	0
KALAT																							
Kalat	0000	6616	801.0		1535.2	32.6	*	*	*		*		0.1		1	0	0	1	20	1	2	5	0
	0300		802.7	—0.6	1548.5	37.6	*	*	*		*		0.9	—0.1	1	0	0	5	20	3	0	1	0
	1200		799.8		1502.7	56.0	42.8	25.3	4.7		31		0.7		6	0	0	0	1	3	5	15	0
Panjgur	0000	3177	907.8		1507.3	48.1	39.8	24.7	5.1		44		0.5		2	25	1	0	2	0	0	0	0
	0300		909.0	+0.3	1518.8	49.2	39.8	22.4	4.7	—0.7	38	—11	0.7	—0.2	29	0	0	0	0	0	0	0	1
	1200		906.7		1520.4	71.3	52.2	26.8	5.6		22		1.0		12	4	0	0	1	10	2	0	1

(*) Data rejected.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF NOVEMBER, 1961.

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
CHITTAGONG DIVISION																					
Rangamati	84.4		90	5	67.8		60	26	0.16		0.11	7	1		x		1	0	25	0	0
Cox's Bazar (P. T.)	84.2	—0.2	90	1,3,4	66.2	—0.9	57	26	1.06	—2.20	1.06	7	1	—2.1	x		2	0	0	0	0
Chittagong (Patenga)	83.4		89	1	66.1		58	26	0.05		0.03	7	0		x		0	0	6	0	0
Chittagong (P.T.)	83.8	+0.2	89	4 days	64.9	—0.6	57	26	0.02	—2.15	0.02	8	0	—2.0	x		1	0	0	0	0
Maijdi Court	82.7	—0.6	86	4,10	63.6	—3.7	54	26	0.00	—1.53	0.00		0	—1.9	x		0	0	0	0	0
Comilla (R)																					
Brahmanbaria	82.6	—2.6	87	4,5	64.9	—0.7	58	26,27,28	0.00	—1.04	0.00	0	0	—1.5	1.3		1	0	1	0	0
Sylhet (P.B.O.)	82.7		89	4	62.9		55	22,25	0.0T		0.0T	6	0		x (j)		1	0	5	0	0
Srimangal	84.2	—1.3	90	4	57.6	—2.0	47	19	0.98	—0.43	0.75	9	2	+0.3	1.2	0.0	0	0	0	0	0
DACCA DIVISION																					
Mymensingh	82.7	—0.2	88	4	63.1	—1.4	56	25,27	0.25	—0.63	0.15	8	2	+1.0	x		0	0	3	0	0
Jamalpur (R)																					
Narayanganj	84.8	+0.9	89	4 days	65.5	—0.6	59	30	0.27	—0.68	0.27	9	1	—0.3	1.0	—0.1	1	0	5	0	0
Dacca (Tejgaon)	82.9		87	2,3	61.6		53	26,27	0.0T		0.0T	7	0	0	2.4		0	0	5	0	0
Faridpur	80.7	—1.6	86	3	63.3	—0.7	57	26,27,29	0.03	—1.07	0.03	7	0	—1.4	1.4	0.0	0	0	0	0	0
KULNA DIVISION																					
Barisal	84.0	+0.8	89	3	65.9	+0.3	59	28	0.00	—1.54	0.00	0	0	—1.7	x		0	0	7	0	0
Khulna	83.0	—0.5	87	3,18,19	65.6	0.0	58	28	0.00	—1.12	0.00	0	0	—1.8	0.9	—0.7	0	0	0	0	0
Satkhira	83.3	—1.9	89	2,9	62.3	—0.9	55	25,27,28	0.00	—0.74	0.00	0	0	—1.2	0.5	—0.4	0	0	0	0	0
Jessore (P.T.)	82.8	—1.4	89	3	60.4	—0.4	53	4 days	0.02	—0.93	0.02	7	0	—1.1	1.2	+0.2	0	0	0	0	0
RAJSHAHI DIVISION																					
Pabna	81.6	—3.9	85	4,18	62.9	—0.2	56	27	0.08	—0.62	0.04	31	0	—1.0	x		0	0	0	0	0
Ishurdi	80.4		85	2	61.3		54	26,27	0.55		0.40	1	2		x		0	0	8	0	0
Serajganj	83.6		90	9,10	61.6		55	27	0.69	0.00	0.40	8	2	+1.2	1.0		0	0	3	0	0
Rajshahi (R)																					
Bogra (P.B.O.)	82.0	—0.4	87	1,4,5	62.5	—0.3	56	21,26,27	0.11	—0.66	0.08	8	0	—0.8	1.8	+0.9	0	0	3	0	0
Dinajpur	83.2	+0.7	89	4	59.9	—1.1	52	26	0.00	—0.44	0.00	0	0	—0.6	x		0	0	0	0	0
Rangpur	81.3		86	3,4	61.0		53	26,28,29	0.05	—0.35	0.05	8	0	—0.5	1.3		0	0	14	0	0

(a) Observation for 31 days. (R) Register not received.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF NOVEMBER, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog. (Visibility Code Figure 93 or less)	Haze (dust). (Visibility Code Figure 93 or less)	Dust Storm. (Visibility Code Figure 93 or less)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR																					
Jammu (x)																					
LAHORE																					
Lahore (P.B.O.)	76.8	—6.1	81	4 days	49.2	+1.9	41	30	0.02	—0.08	0.02	27	0	0.3	1.3	+0.5	0	0	0	0	0
,, (Cantt.)	76.4	—	81	4,6,14	49.1	—	40	30	0.02	—	0.02	27	0	—	1.9	—	0	0	1	0	0
Sialkot (R)																					
RAWALPINDI																					
Jhelum	76.8	—	83	4 days	47.9	—	41	30	0.96	—	0.70	16	2	—	1.7	—	4	0	0	0	0
Chaklala	71.0	—	79	4,5,8	43.9	—	36	30	1.72	—	1.44	16	3	—	3.0	—	2	0	0	0	1
Rawalpindi	71.2	—6.5	80	4,7,8	44.3	—0.1	37	30	1.67	+1.39	1.36	16	2	+1.5	1.2	+0.1	1	0	0	0	0
Campbellpur	71.9	—	81	4 days	43.2	—	36	30	1.05	—	0.82	16	2	—	0.4	—	1	0	0	0	0
SARGODHA																					
Khushab	78.2	—4.6	85	5,6	48.1	—1.7	38	30	0.40	+0.32	0.40	16	1	+0.8	2.8	+0.8	1	1	0	0	0
Sargodha	77.3		84	5	46.7		36	30	0.00		0.00	—	0		3.6		1	0	1	0	0
Mianwali	76.9	—	85	5 days	49.4	—	41	30	0.37	—	0.37	15	1	—	(x)	—	0	0	0	0	0
Lyallpur	*				48.9	—0.2	40	30	0.05	—0.06	0.05	27	0	—0.2	1.2	+0.1	0	0	0	0	0
MULTAN																					
Montgomery	79.0	—4.4	85	6,7	49.2	—2.4	42	30	0.11	+0.06	0.11	27	1	+0.8	(x)	—	1	0	0	0	0
Multan (P.B.O.)	79.9	—	85	4,5,6	48.7	—	38	30	0.00	—	0.00		0	—	1.5	—	0	0	0	0	0
,, (Surface)	80.0	—2.9	86	5,7	51.0	+2.1	44	29,30	0.00	—0.06	0.00		0	—0.1	(x)	—	0	0	0	0	0
Loiah (R)																					
BAHAWALPUR																					
Khanpur (P.B.O.)	82.6	—	87	4 days	49.2	—	40	29	0.00	—	0.00		0	—	1.8	—	0	0	0	0	0
Bahawalpur	82.9	—2.9	88	7	50.9	+0.3	41	28,30	0.00	—0.01	0.00		0	0.0	1.6	+0.9	0	0	0	0	0
Fort Abbas	80.2	—	85	4 days	50.4	—	41	30	0.00	—	0.00		0	—	(b) 1.7	—	0	0	0	0	0
PESHAWAR																					
Chakdara	66.3	—	78	4	42.1	—	36	30	3.43	—	1.65	26	3	—	(x)	—	0	0	0	0	0
Peshawar	71.2	—5.9	80	4,5	47.2	—1.7	39	29,30	1.01	+0.70	0.37	14	3	+2.4	0.5	—0.4	0	0	0	1	0
Risalpur	72.3	—	81	4,5,6	45.2	—	36	30	1.22	—	0.48	26	3	—	1.3	—	2	0	7	0	0
Haripur	71.6	—	82	5	46.0	—	40	30	1.89	—	1.16	16	3	—	5.1	—	2	0	0	0	0
Kohat	71.9	—	79	4,5,6	51.5	—	43	27	1.30	—	0.89	16	4	—	5.7	—	1	1	0	0	0
D. I. KHAN																					
Bannu	72.2	—1.0	80	4,5,7	48.3	—1.6	42	30	0.14	—0.02	0.09	15	0	—0.2	0.8	—	0	0	0	0	0
D. I. Khan	77.8	—4.1	84	3,6	49.3	+0.6	40	30	0.00	—0.15	0.00	—	0	—0.3	0.3	—0.2	0	0	0	0	0
AFGHANISTAN																					
Jalalabad (x)																					

(R) Register not received. (*) Data rejected. (x) Data not available. (b) Mean for 29 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF NOVEMBER, 1961.

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (Inches)						Wind Velocity (Knots)		Weather Number of Days				
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog. (Visibility Code Figure 93 or less)	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
QUETTA																					
Sibi	82.1	—4.3	87	4 days	52.8	—0.3	42	30	0.00	—0.02	0.00		0	—0.1	1.3	—0.4					
KALAT																					
Nokkundi	79.7	—0.3	93	14	50.6	+0.9	36	27	0.00	—0.03	0.00	—	0	—0.1	x	—					
Turbat	89.5		95	6	•		—	—	0.00		0.00		0		x	—					
Jiwani	83.1		87	4 days	65.0		57	28	0.00		0.00		0		5.1						
Pasni	84.3	—1.1	88	13	61.7	+1.2	55	4	0.00	—0.14	0.00		0	0.0	4.8	+0.5					
KARACHI																					
Ormara	84.7	—1.0	90	11	61.4	—2.4	56	28	0.00	0.00	0.00		0	0.0	3.0	—1.0					
Lasbela (R)																					
Karachi (Manora)	87.3	+2.1	90	16	66.1	—0.8	57	29	0.00	—0.08	0.00	—	0	—0.3	x	—					
Karachi (Mauripur)	86.0		89	5 days	61.2		56	28	0.00		0.00	26	0		x						
Karachi (City)	87.3		92	7	60.9		55	12	0.00		0.00		0		1.7						
Karachi (Airport)...	87.2		91	7	57.9		53	6,7	0.00		0.00		0		3.1						
Gadap	87.7		96	1	59.8		55	29	0.00		0.00		0		3.1						
HYDERABAD																					
Mithi	91.0		96	14	52.7		42	21	0.00		0.00	—	0		1.4						
Nagarparkar	88.2		93	14	x		—	—	0.00		0.00		0		x						
Umerkot	88.4		92	14,15,16	54.1		46	29,30	0.00		0.00		0		x						
Chhor	88.4		92	14	49.7		41	30	0.00		0.00		0		1.2						
Hyderabad	87.6	—1.2	93	24	60.2	+1.4	54	29	0.00	—0.06	0.00		0	—0.1	1.8	—1.3					
Badin	89.9	—0.3	96	26	58.4	—1.5	50	30	0.00	—0.18	0.00		0	—0.4	x						
KHAIRPUR																					
Padidan	84.1		89	14	49.2		41	30	0.00		0.00		0		2.7						
Nawabshah	85.1		91	14	51.7		46	29,31	0.00		0.00		0		0.7						
Sukkur	(b) 83.8	—2.4	90	13	57.8	—0.3	51	29	0.00	0.00	0.00		0	0.0	x						
Kashmore	85.8		89	6	57.0		50	18,19	0.00		0.00		0		x						
Jacobabad	83.3	—2.6	87	2,8	55.5	+1.0	47	30	0.00	—0.05	0.00		0	—0.1	3.1	+0.9					
JUNAGADH																					
Veraval	x	—	x	—					0.00		0.00		0	—	x	—					
ARABIA																					
Muscat (R)																					
HILL STATIONS																					
KASHMIR																					
Srinagar (x)																					
Gulmarg (x)																					
Gurez (x)																					
Sonamarg (x)																					
Dras (x)																					
Kargil (x)																					
Leh (x)																					
Skardu (x)																					

(R) Register not received. (*) Data not available. (•) Data rejected. (d) Observation for 27 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF NOVEMBER, 1961.

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (Inches)						Wind Velocity (Knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR—(*continued*)																					
Misgar	43.6	—	50	7,8,9	19.0	—	10	30	0.00	—	0.00	—	0	—	2.4	—	0	0	0	0	0
Allabad (x)																					
Gilgit (x)																					
RAWALPINDI																					
Murree	52.5	—7.0	60	4,6	37.0	—4.0	29	16	3.22	+2.49	1.15	26	4	+2.8	5.6	+2.3	1	0	3	0	0
PESHAWAR																					
Drosh	63.1	—1.0	74	7,13	41.2	—2.4	34	29,30	1.47	+1.13	0.84	26	4	+2.8	2.5	+0.9	0	1	0	0	0
Cherat	63.6	—1.8	74	7	44.5	—5.2	38	28	2.45	+2.08	0.53	16	5	+4.4	(c) 5.3	—0.8	0	0	6	0	0
Kakul	63.6	—	72	4,5	44.8	—	37	27	3.73	—	2.42	16	5	—	x	—	1	1	2	0	0
Balakot	66.6	—	75	4 days	41.3	—	35	30	5.05	—	2.17	16	5	—	(h) 2.0	—	0	0	0	0	0
Landikotal	63.7	—	72	4 days	39.2	—	33	17,22,27	1.69	—	1.24	26	3	—	x	—	0	0	1	0	0
Parachinar	60.9	—3.8	69	6	*	—	—	—	0.93	+0.53	0.35	16	3	+1.8	2.0	+0.2	0	0	0	0	0
D. I. KHAN																					
Miranshah	69.0	—4.4	77	6	43.6	—2.8	36	29	0.00	—0.02	0.60	—	0	0.0	x	—	0	0	0	0	0
Wana	65.3	—4.8	72	4	36.6	+1.1	28	28	1.00	+0.93	0.45	15	3	+2.8	0.3	—	0	0	0	0	0
AFGHANISTAN																					
Kabul (x)																					
Kandahar (x)																					
QUETTA																					
Fortsandeman (P.T.)	68.3	—3.1	75	7	40.6	—0.5	30	28,29	0.00	—0.13	0.00	—	0	—0.2	x	—	—	—	—	—	—
" (P.B.O.)	64.8		73	4 days	39.7		29	29	0.11		0.06	26	0		1.8	—	—	—	—	—	—
Hindubagh	61.0		72	3	*		—	—	0.25		0.25	14	1		5.7	—	—	—	—	—	—
Loralai	67.0		72	3,4	35.9		27	28,29	0.00	—0.16	0.00	—	0	—0.5	2.4	—	—	—	—	—	—
Harnai									0.06	—0.12	0.06	13	0	—0.3	(x)	—	—	—	—	—	—
Quetta (Samungli)	62.5		69	11,12,13	37.3		17	27,28	0.34		0.26	13	1		3.1	—	—	—	—	—	—
" (P.T.)	61.8		68	9,13,25	29.9		17	28	0.48		0.33	14	2		1.1	—0.4	—	—	—	—	—
" (P.B.O.)	62.1		72	12,13	32.8		22	28	0.37		0.12	16	1		2.2	—	—	—	—	—	—
Chaman	65.2	—2.4	75	11	41.1	—2.3	29	27,28	0.55	+0.32	0.47	14	1	+0.3	x	—	2	—	—	—	—
Nushki	71.8		83	11	51.1		40	18,27	0.04		0.04	14	0		x	—	—	—	—	—	—
Dalbandin	74.8	—1.5	83	10	40.9	+0.4	28	28	0.18	+0.12	0.10	13	1	+0.8	3.7	+1.3	—	—	1	—	—
KALAT																					
Kalat	61.2	—2.5	68	2,6	30.8	+0.2	17	27	0.18	—0.05	1.18	14	1	+0.2	x	—	—	—	—	—	—
Panjgur	73.8	—2.1	80	8	44.7	—0.9	35	27,28	0.21	+0.16	0.21	14	1	+0.8	x	—	—	—	—	—	—

(c) Mean for 26 days. (h) Mean for 23 days. (*) Data rejected. (x) Data not available.

REGD. No. S. - 1452

PAKISTAN WEATHER REVIEW, 1961

MONTHLY WEATHER REPORT

December

(PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN)

Chief Features

1. Scanty rainfall over the country outside Lahore, Rawalpindi, Peshawar and Quetta divisions.

East Pakistan

Dry continental air prevailed over East Pakistan during the month except on the 19th when the passage of a feeble westerly low pressure wave across the northern parts of the region caused a few falls of light rain in Rajshahi divison and Rangpur recorded 1/4" of rain. The weather was dry during the rest of the month.

The total rainfall during the month was in large defect outside Rajshahi division where it was in slight defect. Averaged over the region as a whole it was in large defect.

The mean minimum temperature was below normal in the whole region while the mean maximum temperature was below normal in Khulna and Rajshahi divisions and normal elsewhere. The relative humidity was normal over the whole province. Skies were clouded more than usual in Rajshahi division and less than usual else where.

West Pakistan

Weather remained dry during the first twelve days of the month. Thereafter a western disturbance moving across the northern parts of the province towards the end of the first fortnight caused scattered light rain or thundershowers in Quetta and Rawalpindi divisions on the 13th and 14th.

A western disturbance approached Quetta and D.I. Kha divisions on the 16th with its associated trough extending to southern divisions of the province and caused scattered to local rain or thundershowers in Rawalpindi, Peshawar and Quetta divisions the same day. While moving eastwards it caused widespread rain or thundershowers in Lahore division on the 17th, and scattered to local in Rawalpindi and Peshawar divisions of the 17th and the 18th. Light rain or drizzle also fell at a few stations in Lahore, Multan, D. I. Khan, Kalat and Karachi divisions on the 16th while a few falls of snow were reported from the hill of Rawalpindi division on the 17th and the 18th. In the wake of this western disturbance a mild cold wave affected Quetta and Kalat divisions and adjoining areas on the 18th and the 19th lowering night temperatures markedly to considerably below normal. Kalat recorded a minimum temperature of 10°F on the 19th.

Thereafter three more western disturbances influenced the weather over the province during the month. Of these the first one which moved across East Russian Turkistan induced a secondary over Afghanistan and adjoining areas of West Pakistan on the 24th and caused scattered rain or thundershowers in Quetta and Peshawar divisions the same day and scattered to local in these and also Karachi division on the 25th. Isolated light snowfalls were also reported from the hills of Rawalpindi and Peshawar divisions on the 25th and scattered light rain or drizzle from Quetta and Bahawalpur divisions the next day. The last two western disturbances moved across north east Iran to Russian Turkistan towards the end of the month while their associated secondary circulations moved across the northern and central parts of West Pakistan. Under their influence local rain or thundershowers occurred in Quetta and Kalat divisions on the 28th, 29th and the 30th and scattered in Kalat division on the 27th and in Karachi division on the 29th and the 30th. Scattered rain or snow also fell in Rawalpindi and Quetta divisions and light rain or drizzle in Lahore and Kalat divisions on the last day of the month.

Chief amounts of rainfall recorded during the month were Sialkot 2" on the 17th, Jiwani and Chaman 3/4" each on 29th & 30th respectively.

The total rainfall during the month was in slight defect in Kalat division, in moderate defect in Lahore, Quetta and Karachi divisions and in large defect elsewhere. Averaged over the region as a whole it was in moderate defect.

The mean maximum temperature was below normal in Lahore and Rawalpindi divisions and normal elsewhere. The mean minimum temperature was below normal in Rawalpindi and Sargodha divisions; above normal in Kalat division and normal elsewhere.

The mean relative humidity was in excess in Rawalpindi, Sargodha and Hyderabad divisions, in defect in Bahawalpur and Quetta divisions and normal elsewhere. The skies were clouded less than usual in Lahore, Sargodha, Bahawalpur and Peshawar divisions, normally clouded Rawalpindi, D. I. Khan, Quetta and Kalat divisions and clouded more than usual in the remaining parts of the region.

Table 1 contains the divisional means of rainfall, temperature relative humidity and the cloud amount for the 16 divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

TABLE I.—DIVISIONAL MEANS FOR DECEMBER, 1961.

Division	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		o	o	Mb.	%	
EAST PAKISTAN									
Chittagong	0.00	0.49	—0.49	—100	—1.5	—3.2	—1.3	—4	—0.9
Dacca	0.00	0.15	—0.15	—100	—1.5	—3.0	—1.8	—1	—0.6
Khulna	0.00	0.20	—0.20	—100	—2.1	—2.8	—1.7	0	—1.0
Rajshahi	0.07	0.09	—0.02	—22	—2.2	—2.4	—1.3	0	+0.3
Mean	0.02	0.25	—0.23	—92	—1.8	—2.9	—1.5	—1	—0.6
WEST PAKISTAN									
Kashmir (x)									
Lahore	0.26	0.47	—0.21	—45	—4.6	—0.9	—0.9	0	—1.0
Rawalpindi	0.67	1.52	—0.85	—56	—4.1	—2.9	—0.3	+7	—0.1
Sargodha	0.03	0.34	—0.31	—91	—0.9	—2.5	+0.3	+14	—1.2
Multan	0.01	0.22	—0.21	—95	—0.9	—0.4	—0.9	+3	+0.7
Bahawalpur	0.00	0.22	—0.22	—100	—0.6	—1.0	—0.3	—6	—1.1
Peshawar	0.27	1.17	—0.90	—77	—1.1	—1.8	—0.5	—1	—1.1
D. I. Khan	0.17	0.51	—0.34	—67	—1.6	—0.5	+0.1	+4	+0.4
Quetta	0.46	0.69	—0.23	—33	+1.3	+0.5	—1.0	—12	—0.4
Kalat	0.53	0.62	—0.09	—15	+0.1	+2.1	—0.2	—2	—0.3
Karachi	0.31	0.42	—0.11	—26	+1.2	—0.8	—0.3	—3	+0.6
Hyderabad	0.00	0.13	—0.13	—100	+1.3	—1.5	+0.3	+11	+0.5
Khairpur	0.00	0.10	—0.10	—100	—0.1	+0.7	—0.5	—1	+0.4
Mean	0.28	0.54	—0.26	—48	—0.2	—0.3	—0.4	—1	—0.2
Junagadh (x)									

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Cpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
EAST PAKISTAN																							
Chittagong Division																							
Rangamati	0000	208	1007.7		1015.2	59.6	58.7	57.7	16.5		95		xx		24	0	0	0	0	0	5	2	0
	0300		1009.8	—	1017.2	64.4	61.6	59.6	17.4	—	84	—	1.7	—	27	0	1	1	1	0	0	1	0
	1200		1006.1		1013.5	70.6	63.1	58.0	16.3		65		xx		16	0	2	0	0	0	12	1	0
Cox's Bazar (P.T.)	0300	38	1014.0	—0.7	1015.3	68.6	63.3	59.7	17.4	—1.6	73	—5	1.1	—0.6	7	11	11	1	0	0	0	1	0
	1200		1011.0		1012.4	69.5	64.6	61.4	18.5		75		2.1		10	1	0	0	0	1	2	17	0
Chittagong (P.B.O.)	0000	20	1013.3		1014.0	57.2	56.0	54.8	14.8		93		0.9		5	10	0	0	0	0	0	0	16
	0300		1015.5		1016.2	64.4	59.8	57.0	15.5	—	77	—	0.4	—	8	12	1	0	0	0	0	0	10
	1200		1012.2		1012.9	69.3	62.4	57.4	16.2		66		0.5		0	0	0	0	0	0	2	7	22
Chittagong (P.T.)	0300	46	1014.3	—0.8	1016.0	67.3	61.6	57.6	16.2	—1.7	70	—12	0.4	—1.2	5	12	1	0	0	0	0	4	9
	1200		1010.5		1012.6	68.2	61.2	56.0	15.3		65		0.2		2	2	0	0	0	0	1	8	18
Maijdee Court	0000	25	1013.4		1014.3	53.6	52.6	51.8	13.1		94		0.1		3	1	0	0	0	0	1	0	26
	0300		1015.4	—0.6	1016.3	63.9	59.3	55.8	15.1	—2.8	76	—5	0.1	—1.2	6	0	0	0	0	0	0	7	18
	1200		(a) 1012.0		1012.8	(a) 68.0	(a) 41.4	(a) 56.4	(a) 15.6		(a) 67		(a) 0.1		4	0	0	0	(a) 0	0	0	3	23
Comilla (R)	0000	29																					
	0300																						
	1200																						
Brahmanbaria	0000	32	1013.2		1014.3	55.5	54.4	53.3	14.0		93		1.9		3	0	0	0	0	1	4	1	22
	0300		1015.4		1016.5	64.4	60.5	57.5	16.2	—0.8	79	+8	0.4		12	1	0	0	0	1	1	5	11
	1200		1011.9		1013.0	67.8	62.1	57.6	16.5		70		0.5		0	0	0	0	0	0	0	3	28
Sylhet (P.B.O.)	0000	115	1010.1		1014.3	54.7	53.5	52.3	13.5		91		1.6		0	0	19	2	0	0	0	0	10
	0300		1011.9		1016.1	64.2	59.7	56.3	15.4	—	76	—	1.0	—	0	0	29	0	0	0	0	0	2
	1200		1008.4		1012.5	67.6	60.7	55.2	15.0		65		1.0		0	0	0	0	0	2	5	0	24
Srimangal	0000	69	1010.3		1013.1	47.2	46.8	46.3	10.7		97		1.0		0	0	0	0	0	0	0	0	31
	0300		1013.2	—	1015.9	63.8	59.9	56.9	15.8	+0.3	79	—5	0.6	—0.7	0	0	1	0	0	0	1	1	28
	1200		x		*	*	*	*	*		*		0.1		0	0	4	0	0	0	0	0	27
Dacca Division																							
Mymensingh	0000	62	1012.3		1014.6	55.2	53.8	52.5	13.5		91		0.4		0	0	0	0	0	0	4	0	27
	0300		1014.5	—0.9	1016.8	60.1	57.9	56.3	15.5	—0.9	88	+5	0.7	—0.8	0	0	0	8	0	0	14	0	9
	1200		1011.0		1013.2	68.6	62.5	58.2	16.6		69		0.5		0	0	0	0	0	0	2	0	29
Jamalpur (R)	0000																						
	0300																						
	1200																						
Narayanganj	0000	26	1013.7		1014.6	55.2	54.1	53.1	13.8		93		0.8		0	0	0	0	0	0	1	2	28
	0300		1015.5	—0.8	1016.4	64.0	59.1	55.1	14.9	—1.7	73	—5	0.8	—0.7	2	0	1	0	0	0	2	10	16
	1200		1012.1		1013.0	68.4	61.4	56.1	15.4		65		1.3		0	0	0	0	0	0	1	4	26
Dacca (Tejgaon)	0000	32	1013.7		1013.8	51.7	51.2	50.8	12.6		97		0.7		5	0	0	0	0	0	1	13	12
	0300		1015.0	—	1016.1	61.9	58.3	55.5	15.0	—	80		1.2	—	10	1	0	0	0	0	0	13	7
	1200		1011.6		1012.7	65.2	59.6	55.2	14.9		71		1.1		0	0	0	0	0	0	13	13	5

(R) Register not received. (*) Data rejected. (X) Data not available (a) Mean for 30 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and A.S.L. gravitational potential of 850 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Dacca Division—contd.																							
Faridpur	0000	46	1013.5		1015.1	53.4	52.1	50.8	12.3		91		0.6		8	1	0	0	0	0	0	8	14
	0300		1014.7	—0.9	1016.3	62.0	57.9	54.6	13.7	—2.7	76	—4	0.6	—0.4	13	0	0	0	0	0	0	11	7
	1200		1011.6		1013.2	67.6	61.5	56.8	15.1		69		0.5		3	0	0	0	0	0	0	3	25
Khulna Division																							
Barisal	0000	11	1014.3		1014.7	56.0	54.3	52.8	13.6		89		0.1		2	1	0	0	0	0	0	0	28
	0300		1016.1	—0.3	1016.5	64.3	60.0	56.8	15.7	—1.9	77	—2	0.2	—0.9	6	8	0	0	1	0	2	0	14
	1200		1012.4		1012.8	71.4	67.8	65.9	21.6		83		0.4		1	0	0	0	1	0	1	0	28
Khulna	0000	16	1014.0		1014.6	55.0	54.4	53.8	14.2		96		0.3		0	1	0	0	0	0	0	3	27
	0300		1016.3	—0.7	1016.9	65.3	60.3	56.8	15.6	—0.4	74	+7	0.1	—1.2	1	5	0	0	0	0	0	2	23
	1200		1012.4		1013.0	68.2	63.2	59.8	17.6		74		0.1		0	0	0	0	0	0	0	0	31
Satkhira	0000	16	1015.0		1015.6	51.4	50.2	48.7	11.8		92		0.5		0	0	0	0	0	0	0	0	31
	0300		1016.8	0.0	1017.4	61.9	56.5	51.5	13.1	—2.7	70	—5	0.3	—0.8	3	0	0	0	0	6	0	0	28
	1200		1013.2		1013.7	68.9	61.6	55.3	15.4		62		0.3		0	0	0	0	0	0	[illegible]	0	31
Jessore (P.T.) (R)	0000	26																					
	0300																						
	1200																						
Rajshahi Division																							
Pabna	0000	48	1012.7		1014.7	52.8	51.9	51.4	12.8		94		1.0		1	0	0	0	0	0	0	9	21
	0300		1015.2		1016.9	63.1	57.0	54.3	15.0	—1.2	79	+3	1.2	—	2	0	0	0	0	0	0	23	6
	1200		1011.6		1013.3	65.8	61.0	57.2	16.8		74		0.5		0	0	0	0	0	0	0	1	30
Ishurdi	0000					50.4	49.9	49.3	12.0		96		1.3		2	4	0	0	1	1	4	8	11
	0300					61.4	56.2	51.3	13.1		72		1.6	—	11	4	1	1	0	1	1	11	1
	1200					63.4	58.8	55.2	14.9		75		0.8		6	2	0	0	0	5	6	12	0
Sirajgonj	0000	51	1013.0		1014.9	53.6	52.3	50.7	12.8		90		1.7		0	0	0	0	0	0	0	0	31
	0300		1014.9		1016.7	63.2	57.8	54.3	13.9		74		0.5	—	0	2	0	0	0	0	0	5	24
	1200		1010.8		1012.6	65.3	60.8	57.5	16.2		76		0.3		0	0	0	0	0	0	0	0	31
Rajshahi (R)	0000																						
	0300																						
	1200																						
Bogra (P.B.O.)	0000	65	1812.0		1014.4	53.3	52.3	51.3	12.9		94		1.3		3	1	0	1	0	0	2	4	20
	0300		1014.2	—1.1	1016.6	60.2	56.7	53.7	14.1	—1.2	79	+3	1.1	0.0	3	8	0	0	0	0	2	15	3
	1200		1010.7		1013.0	66.6	61.5	57.8	16.4		74		0.7		0	1	0	1	0	2	4	8	15
Dinajpur	0000	123	1010.2		1014.7	50.7	49.6	48.3	11.6		92		1.6		0	0	0	0	0	0	0	0	31
	0300		1012.6	—0.7	1017.1	60.4	55.7	50.9	13.0	—1.5	74	—7	1.7	+0.7	0	0	0	0	0	0	0	0	31
	1200		1008.7		1013.1	66.7	59.7	54.0	14.3		65		0.2		0	0	0	0	0	0	0	0	31
Rangpur	0000	113	1011.3		1015.5	51.1	50.2	49.2	12.0		93		1.2		21	0	0	0	0	0	0	1	9
	0300		1013.0		1017.1	58.5	56.2	54.3	14.4		86	—	0.9		9	11	0	0	0	0	3	6	2
	1200		1009.4		1013.5	64.5	60.3	57.1	16.0		77		1.0		0	0	0	0	0	0	1	0	30

(R) Register not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
KASHMIR																							
Jammu (x)	0300	1200																					
	1200																						
LAHORE																							
Lahore (P.B.O.)	0000	702	991.4		1017.4	42.1	41.0	39.7	8.2		90		0.8		0	2	0	0	0	0	0	0	29
	0300		992.7	—0.6	1018.8	42.9	41.2	39.2	8.0	—0.9	85	0	1.4	—1.0	0	1	0	0	0	0	1	0	29
	1200		990.9		1016.0	62.7	54.1	45.7	10.4		54		2.2		0	1	0	0	0	0	2	1	27
,, (Cantt.)	0000	709	990.6		1017.0	41.6	40.5	39.0	8.0		90		0.8		0	0	1	0	0	0	0	0	30
	0300		992.1	—	1018.5	42.6	40.7	38.1	7.8	—	84	—	1.7	—	2	1	1	0	0	1	3	3	20
	1200		990.3		1015.5	62.3	52.8	42.6	9.3		48		2.5		1	1	1	1	0	0	0	7	20
Sialkot (R)	0000	830																					
	0300																						
	1200																						
RAWALPINDI																							
Jhelum	0000	767	988.7		1017.0	41.0	39.6	37.8	7.7		87		1.6		2	2	1	0	0	0	0	5	21
	0300		990.1	—	1018.6	41.9	40.0	37.1	7.5	—	83	—	2.1	—	3	2	3	1	0	0	1	2	19
	1200		988.2		1015.5	61.8	52.5	42.5	9.3		49		2.5		1	1	1	1	2	1	2	5	17
Chaklala	0000	1667	957.8		1019.0	38.3	37.2	35.9	7.1		91		1.8		3	5	1	0	0	1	2	9	10
	0300		958.9	—	1020.2	38.1	36.8	34.7	6.9	—	89	—	2.6	—	4	1	2	0	0	0	2	6	16
	1200		957.4		1016.2	58.2	47.7	34.9	7.1		42		3.0		2	0	0	1	2	0	21	1	4
Rawalpindi	0000	1675	957.5		1019.0	38.6	37.8	36.9	7.4		93		(a) 1.0		2	2	1	0	0	0	1	0	25
	0300		958.4	—1.2	1020.0	38.7	37.7	36.4	7.3	+0.3	91	+15	2.5	—0.1	3	1	0	0	0	1	5	2	19
	1200		957.1		1016.5	55.9	47.7	38.8	8.0		53		2.9		1	0	1	0	0	2	20	1	6
Campbellpur (R)	0000	1175																					
	0300																						
SARGODHA																							
Khushab	0000	616	*		*	*	*	—	—		—		0.5		0	0	5	0	0	0	0	0	26
	0300		996.5	—0.7	1019.4	42.9	40.3	37.0	7.4	+0.8	78	+17	1.7	—0.8	0	1	3	0	0	0	1	0	26
	1200		993.9		1015.7	66.9	54.2	40.5	8.7		38		0.8		0	1	3	0	0	0	1	0	26
Sargodha	0000	617	994.6		1017.6	39.7	38.5	37.0	7.4		89		1.1		2	4	2	1	1	9	6	0	6
	0300		995.9	—	1018.9	40.4	38.8	36.8	7.3	—	85	—	2.5	—	0	4	1	0	1	11	0	0	14
	1200		994.1		1016.0	62.8	53.6	44.1	9.9		51		2.1		2	2	2	1	1	6	6	1	10
Mianwali	0000	679	*		*	41.4	38.3	33.4	6.4		74		0.4		0	0	0	0	0	0	0	0	31
	0300		*	—	*	43.5	39.6	33.6	6.5	—	67	—	1.1		0	0	0	0	0	0	0	0	31
	1200		*		*	64.0	53.7	43.1	9.8		46		1.2		0	0	0	0	0	0	0	0	31
Lyallpur	0000	605	995.2		1017.7	42.2	41.3	40.2	8.5		92		0.5		0	2	0	1	0	0	0	0	28
	0300		996.2	—0.6	1018.8	45.3	41.8	39.8	8.3	—0.2	87	+11	1.6	—1.6	0	0	0	0	0	0	0	0	31
	1200		994.3		1015.9	65.7	54.3	41.8	9.3		43		1.9		1	1	1	0	0	0	0	0	28
MULTAN																							
Montgomery	0000	558	(c) 996.8		(e) 1017.5	42.5	41.3	39.9	8.3		89		0.5		0	2	0	0	0	0	0	2	27
	0300		998.0	—0.7	1018.6	46.4	43.6	39.8	8.5	—0.3	78	+1	1.8	0.0	0	4	1	4	0	1	0	1	20
	1200		996.2		1016.0	65.7	55.9	46.6	10.8		50		1.0		1	1	0	0	0	0	0	0	29
Multan (P.B.O.)	0000	404	1001.9		1017.1	44.2	42.1	39.1	8.2		84		1.5		1	1	2	0	0	0	0	1	26
	0300		1003.6	—	1018.9	43.3	41.1	38.2	7.8	—	81	—	3.2	—	2	0	0	1	0	0	0	0	28
	1200		1001.4		1015.9	66.4	54.3	41.6	9.0		41		1.5		2	1	1	4	4	0	0	0	19

(c) Data not available. (a) Mean for 30 days. (e) Mean for 28 days. (R) Register not received. (*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Multan (Surface)	0300	413	1033.5	—0.6	1016.6	47.9	44.8	40.7	8.7	—1.5	77	+5	3.2	+1.4	1	0	2	0	0	0	0	0	28
	1200		1000.9		1015.6	66.3	54.7	42.6	9.4		43		1.7		1	0	1	0	1	0	0	0	28
Leiah (R)	0000	487																					
	0300																						
	1200																						
BAHAWALPUR																							
Khanpur (P.B.O.)	0000	290	1006.0		1016.9	43.4	41.5	39.2	8.1		84		0.8		0	4	0	1	0	0	0	0	26
	0300		1007.5	...	1018.4	46.2	43.1	39.1	8.1	...	77	...	1.4	...	2	3	0	1	0	1	0	0	24
	1200		1004.9		1015.3	68.4	55.9	43.2	9.7		40		1.4		1	8	0	0	0	0	0	0	22
Bahawalpur	0300	384	*	...	*	49.9	45.4	40.3	8.4	—0.3	68	—6	0.8	—1.1	0	1	0	0	0	0	0	0	30
	1200		*		*	68.2	*	—	—		—		0.3		0	0	0	0	0	0	0	0	31
Fort Abbas	0000	475	*		*	43.3	41.3	38.2	7.9		81		0.0		13	2	0	1	1	0	0	0	14
	0300		*	...	*	45.7	42.4	37.3	7.8	...	75	...	0.0	...	2	2	6	4	2	0	0	1	14
	1200		*		*	66.8	57.0	47.1	12.1		50		0.1		11	1	1	0	0	0	0	0	18
PESHAWAR																							
Chakdara	0000	2197	938.9		1018.9	37.2	35.0	31.5	6.1		79		0.4		15	0	0	0	0	0	1	0	15
	0300		939.6	...	1019.5	38.9	36.2	31.8	6.2	...	76	...	0.8	...	4	0	0	1	4	0	0	0	22
	1200		937.1		1014.0	55.7	46.9	37.5	7.5		50		1.2		0	0	0	0	1	0	0	0	30
Peshawar	0000	1177	975.5		1018.7	41.5	38.9	34.9	6.8		78		1.5		0	0	0	4	0	9	0	1	17
	0300		976.5	—1.5	1019.8	41.2	38.3	33.7	6.6	+0.2	74	+9	2.8	—1.2	0	0	0	6	3	2	0	1	19
	1200		974.6		1016.5	59.4	50.4	31.0	8.5		48		3.2		1	2	1	1	0	1	0	1	24
Risalpur	0000	1047	980.1		1018.8	37.2	36.5	35.6	7.0		94		1.3		1	0	2	0	0	1	4	2	21
	0300		980.9	...	1019.6	37.7	36.6	34.8	6.9	...	89	...	2.5	...	2	0	0	1	0	0	4	2	22
	1200		978.8		1015.9	58.7	49.9	39.3	8.3		49		2.8		1	1	3	0	0	4	4	0	18
Haripur	0300	1757	(d) 955.2	...	(d) 1019.1	42.8	38.5	32.7	6.2	...	67	...	3.1	...	2	6	1	2	1	5	7	7	0
	1200		(b) 953.8		(b) 1015.6	58.9	50.4	41.6	9.1		53		2.6		1	2	2	8	3	8	0	7	0
Kohat	0000	1683	958.1		1018.9	46.9	40.5	29.3	6.1		54		1.5		1	0	0	0	0	0	0	26	4
	0300		959.2	...	1020.1	46.7	39.8	29.0	5.6	...	51	...	2.7	...	2	1	0	0	0	2	0	21	5
	1200		957.6		1016.8	61.0	48.3	32.6	6.4		35		2.4		2	5	0	7	0	0	0	0	17
D. I. KHAN																							
Bannu	0000	1263	971.9		1018.2	43.4	40.1	33.7	7.0		74		1.9		0	0	0	0	0	0	0	1	30
	0300		972.9	...	1019.4	43.1	39.9	35.5	6.9	+0.3	73	+13	3.2	+1.0	0	0	0	0	1	0	2	1	27
	1200		971.1		1015.7	62.9	53.7	43.9	10.0		52		2.3		0	0	0	2	2	1	1	1	24
D. I. Khan	0000	570	996.3		1017.4	43.6	41.2	38.2	7.9		80		0.5		0	0	0	0	0	0	0	1	30
	0300		997.4	—1.2	1018.6	44.2	41.3	37.3	7.7	+0.3	76	+4	2.8	+0.5	0	0	0	0	0	0	0	1	30
	1200		994.9		1015.1	65.9	55.5	46.4	10.9		48		1.3		0	1	0	0	0	0	0	0	30
AFGHANISTAN																							
Jalalabad (x)	0000	1950																					
	0300																						
	1200																						

29 days. (d) Mean for 27 days. (x) Data not available. (R) Register not received. (*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER, 1961.

DIVISION AND STATION	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
QUETTA	G.M.T	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	Oktas										
Sibi	0000	441	1001.2		1017.6	46.0	42.6	37.5	7.8		73		0.6		1	0	0	0	0	0	0	3	4
	0300		1002.3	+0.1	1018.7	46.3	41.3	34.4	6.6	+0.1	65	+15	2.2	—0.1	2	0	0	0	0	0	0	0	29
	1200		999.1		1015.0	72.4	55.5	35.2	7.5		28		1.8		0	0	0	3	9	5	2	0	12
KALAT																							
Nokkundi	0000	2229	938.7		1018.5	48.9	41.5	30.8	6.0		50		0.5		12	7	3	0	1	0	2	6	0
	0300		940.4	—	1020.6	48.5	41.5	31.1	6.1	+0.2	62	—2	0.6	—2.1	10	8	6	1	0	0	1	5	0
	1200		937.2		1014.0	69.8	53.9	36.5	7.8		31		0.9		4	0	5	7	6	0	4	5	0
Turbat	0000	510	997.2		1015.8	59.6	52.1	41.1	9.9		59		0.6		0	1	5	0	0	0	0	0	25
	0300		998.9	—	1017.2	61.7	52.8	40.0	9.6	—	53	—	0.7	—	1	0	9	0	0	0	0	1	20
	1200		995.7		1013.7	78.5	59.2	37.2	8.5		27		0.8		1	4	5	0	0	5	8	2	6
Jiwani	0000	185	1009.0		1015.6	64.2	57.8	51.3	13.5		66		1.5		7	11	1	1	1	1	1	2	6
	0300		1010.4	—	1017.1	63.1	56.8	49.7	13.0	—	66	—	3.1		12	9	2	0	1	1	1	2	3
	1200		1008.2		1014.6	75.5	62.7	51.6	13.6		47		2.9		1	2	2	10	6	6	2	2	0
Pasni	0000	28	1013.9		1014.9	64.3	58.3	52.1	14.0		69		1.7		6	3	1	1	0	2	7	8	3
	0300		1015.7	—1.2	1016.7	63.3	57.7	51.3	13.8	—0.3	71	—4	3.9	+2.1	6	5	3	0	0	1	5	8	3
	1200		1013.1		1014.1	76.0	65.4	57.6	16.6		66		3.5		2	0	4	9	10	4	1	1	0
KARACHI																							
Ormara	0000	15	1014.3		1014.8	60.0	57.6	55.4	15.1		86		(a) 1.6		2	0	1	3	0	0	1	0	24
	0300		1015.7	—	1016.2	64.5	59.6	54.5	15.2	+0.2	73	—2	(a) 2.9	+0.8	0	0	3	4	0	1	2	1	20
	1200		1013.0		1013.5	76.3	64.6	56.7	15.5		52		2.2		0	0	3	3	11	2	8	1	3
Lasbela (R)	0000	292																					
	0300																						
	1200																						
Karachi (Manora)	0000	13	1014.6		1015.1	60.7	53.3	45.5	10.5		58		2.2		5	19	0	0	0	0	1	0	6
	0300		1016.1	—1.4	1016.6	62.4	54.8	47.3	11.2	—0.7	59	—3	2.2	+0.4	6	23	0	0	0	0	1	0	1
	1200		1013.2		1013.7	76.6	69.4	64.3	21.3		66		2.5		0	2	5	1	4	7	11	1	0
Karachi (Mauripur)	0000	52	1013.1		1015.0	58.0	51.0	42.7	9.6		58		0.9		9	15	0	0	0	0	1	1	5
	0300		1014.5	—	1016.4	57.2	50.0	41.1	9.1	—	56	—	2.0	—	8	14	2	0	0	0	1	0	6
	1200		1011.9		1013.7	76.4	60.1	43.4	10.4		34		1.9		0	2	6	0	3	16	3	1	0
Karachi (City)	0300	20	1015.5	—	1016.2	59.0	52.1	44.4	10.2	—	60		1.7		12	13	1	0	0	1	1	0	3
	1200		1012.4		1013.1	75.5	61.4	48.7	12.2		41		1.9		2	4	3	0	2	14	1	1	4
Karachi (Airport)	0000	73	1012.5		1015.3	54.5	43.8	41.8	9.2		64		0.9		11	7	0	0	0	0	1	0	12
	0300		1014.5	—	1017.3	55.3	49.1	41.7	9.1	—	61		1.9		9	4	0	0	0	1	0	2	15
	1200		1011.4		1014.0	76.6	59.6	42.8	9.8		33		1.5		1	8	2	1	4	12	2	0	1
Gadap (R)	0300																						
	1200																						
HYDERABAD																							
Mithi	0000	96	1011.2		1014.8	44.6	41.9	38.3	8.2		79		0.0		0	0	0	0	0	0	0	0	31
	0300		1013.0	—	1016.5	49.1	44.9	39.5	8.2	—	70		0.0		0	0	0	0	0	0	0	0	31
	1200		1009.8		1013.1	78.4	64.8	54.5	14.8		45		0.3		1	9	0	0	0	0	0	7	14
Nagarparkar	0000	178	1008.0		1014.5	57.3	51.5	45.0	10.4		65		0.0		0	0	0	0	0	0	0	1	30
	0300		1008.9	—	1016.7	61.1	53.5	45.3	10.6	—	58		0.2		1	5	1	2	0	0	0	1	21
	1200		1005.4		1012.7	77.5	64.0	53.7	14.2		45		0.3		1	6	6	4	1	0	0	3	10

(a) Observation not available. (*) Observation rejected. (a) Mean for 30 days. (R) Register not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mb. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From —: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Umarkot	0000	55	1012.7		1014.8	49.3	43.6	35.7	7.1		61		0.5		12	11	3	0	0	1	0	1	3
	0300		1014.4		1016.4	50.1	44.0	35.7	7.0		59		1.8		11	10	1	1	0	1	0	2	5
	1200		1011.2		1013.1	76.5	60.0	45.0	10.3		33		1.4		10	3	1	0	0	1	4	11	1
Chhor	0000	19	1014.1		1014.8	44.0	40.7	35.6	7.2		73		0.9		0	0	0	0	0	0	0	0	31
	0300		1016.2		1016.9	50.2	43.2	32.5	6.4	—	63	—	1.8	—	0	1	0	0	0	0	0	0	30
	1200		1012.8		1013.5	76.2	56.4	33.0	6.7		22		1.5		18	5	3	0	0	2	3	0	0
Hyderabad	0000	98	1012.1		1015.7	54.8	49.0	42.3	9.1		63		1.1		22	1	0	0	0	1	0	0	7
	0300		1014.0	—0.8	1017.6	54.4	48.9	42.5	9.4	+0.3	55	+7	1.9	+0.5	16	1	0	0	0	0	0	0	14
	1200		1011.0		1014.4	74.4	58.8	44.3	10.0		35		1.3		15	1	0	0	0	1	0	1	13
Badin	0000	31	1013.6		1014.8	52.1	48.1	43.4	9.6		73		*		*	*	*	*	*	*	*	*	*
	0300		1016.0	—0.3	1017.1	52.4	49.0	45.3	10.4	+0.4	77	+16	*		*	*	*	*	*	*	*	*	*
	1200		1012.6		1013.7	77.6	60.3	44.2	9.7		32		*		*	*	*	*	*	*	*	*	*
KHAIRPUR																							
Padidan	0000	153	1010.4		1016.1	45.9	44.0	41.8	9.0		83		1.0		2	0	0	0	0	0	0	2	27
	0300		1012.3	—	1018.0	45.8	43.6	40.9	8.6	—	83	—	1.8	—	3	4	1	0	0	0	0	6	17
	1200		1009.4		1014.9	72.5	56.1	38.1	8.2		32		1.5		8	11	0	4	0	0	0	2	6
Nawabshah	0000	124	1012.5		1017.2	48.4	45.3	41.3	8.9		77		0.6		0	0	0	0	0	0	0	1	30
	0300		1014.2	—	1018.9	47.3	44.3	40.6	8.6	—	76	—	1.1	—	0	0	0	0	0	0	0	3	28
	1200		1011.4		1015.9	73.8	57.1	40.0	8.5		30		1.2		5	0	0	0	0	1	0	7	18
Sukkur	0300	221	1009.8	—0.6	1017.9	53.2	48.7	43.3	9.7	+0.5	72	+7	1.9	+0.6	3	5	0	8	5	1	0	1	8
	1200		1006.9		1014.7	72.4	58.5	45.7	10.5		42		1.7		15	4	1	0	3	4	1	3	0
Kashmore	0000	225	1007.4		1016.8	49.3	43.5	35.1	7.1		58		0.4		0	3	0	0	0	0	0	0	28
	0300		1008.6	—	1018.0	52.6	45.7	36.1	7.8	—	54	—	0.3	—	0	3	0	0	0	0	0	0	28
	1200		1006.6		1015.7	68.8	50.2	22.5	4.1		18		0.6		0	2	0	0	0	0	0	0	29
Jacobabad	0000	183	1009.9		1016.7	50.5	44.8	37.9	7.6		61		1.3		3	4	7	2	1	0	1	6	7
	0300		1011.5	—0.7	1018.3	50.1	44.3	36.2	7.3	—1.4	59	—9	1.8	+0.2	4	2	4	1	0	0	1	9	10
	1200		1008.6		1015.2	72.0	55.7	38.1	7.7		30		1.3		5	2	0	8	0	3	1	8	4
JUNAGADH																							
Veraval	0300	26	(c) 1013.2		(c) 1014.2	(d) 66.0	(d) 54.5	(p) 41.7	(d) 9.4		(d) 43		(c) 0.8		(i) 8	14	2	1	(c) 0	0	0	2	1
	1200		(k) 1010.4		(k) 1011.4	(m) 78.8	(m) 65.8	(m) 57.4	(m) 15.8		(m) 47		(k) 1.2		0	1	1	1	(k) 4	1	6	0	6
ARABIA																							
Muscat (x)	0300																						
	1200																						
HILL STATIONS KASHMIR																							
Srinagar (x)	0000																						
	0300																						
	1200																						

(*) Data rejected. (c) Mean for 28 days. (x) Data not available. (d) Mean for 27 days. (m) Mean for 18 days. (k) Mean for 20 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directions Number of Observations From: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
HILL STATIONS																							
KASHMIR																							
Gulmarg (x)	0300																						
	1200																						
Gurez (x)	0300																						
	1200																						
Sonamarg (x)	0300																						
	1200																						
Dras (x)	0300																						
	1200																						
Kargil (x)	0300																						
	1200																						
Leh (x)	0000																						
	0300																						
	1200																						
Skardu (x) ... —	0000	7250																					
	0300																						
	1200																						
Misgar	0000	10190	—		—	—	—	—	—	—	—		—		—	—	—	—	—	—	—	—	—
	0300		699.7	—	3100.3	10.4	8.8	4.0	1.6	—	72	—	3.0	—	1	2	1	0	0	2	8	3	14
	1200		698.1		3082.9	21.9	19.1	13.4	2.5		66		3.5		0	2	12	3	0	0	4	1	9
Aliabad (x)	0300																						
	1200																						
Gilgit (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	782.6		1496.5	35.4	31.2	24.3	4.5		63		3.1		0	14	2	13	0	0	0	2	0
	0300		784.3	—1.8	1512.9	36.1	29.9	17.5	3.5	—0.8	48	0	2.9	—0.2	1	8	10	5	0	0	0	1	6
	1200		783.6		1502.5	38.5	33.0	23.9	4.5		56		4.0		0	8	8	3	0	0	0	2	10
PESHAWAR																							
Drosh	0000	4806	857.2		1532.1	36.7	31.7	21.2	4.0		55		1.9		0	1	1	0	0	3	0	0	26
	0300		858.2	—0.9	1540.5	35.9	30.9	20.2	3.9	—1.3	54	—11	3.3	—0.2	0	1	6	3	1	0	0	0	20
	1200		855.2		1514.7	45.5	35.9	15.9	3.3		33		3.6		0	6	6	7	0	0	0	0	12
Chitral	0000	4272	*		*	*	*						2.0		1	9	1	0	0	8	0	10	2
	0300		*		*	43.3	*						1.1	—1.8	2	17	1	0	0	0	1	8	2
	1200		*		*	48.8	*						2.9		4	15	1	1	0	1	0	7	2
Kakul	0000	4214	873.2		1501.3	40.1	34.5	25.5	4.8		57		2.2		8	7	1	2	0	0	2	11	0
	0300		874.0	—	1509.2	40.6	35.0	25.0	4.7	—	56	—	2.9	—	10	5	2	1	1	1	1	10	0
	1200		873.1		1503.9	49.0	41.4	30.3	5.8		50		3.2		2	3	1	7	7	2	1	8	0
Balakot	0000	3226	*		*	38.9	35.9	31.1	6.0		74		1.5		4	1	0	0	0	0	1	2	23
	0300		*		*	38.1	35.1	30.0	5.7		74		1.9		3	1	0	0	0	0	1	4	22
	1200		*		*	49.9	43.3	34.8	6.9		57		2.2		1	1	0	0	0	0	0	1	28
Landikotal	0000	3503	895.7		1486.5	36.4	33.6	28.9	5.4		75		1.5		0	0	0	0	0	2	0	0	29
	0300		896.3	—	1492.5	36.7	33.4	27.8	5.1	—	71	—	2.3	—	0	0	0	0	0	3	0	0	28
	1200		895.2		1495.5	52.1	43.0	30.1	5.8		44		2.7		0	1	0	3	0	17	0	0	10

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER, 1961.

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Direction Number of Observations From— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Parachinar	0000	5673	827.6		*	*	*	*	—		—		1.9		0	0	0	0	0	0	0	0	31
	0300		828.4	—0.8	*	*	*	*	—	—	—	—	1.9	—1.1	1	0	0	0	0	0	0	0	30
	1200		826.8		1499.5	47.8	37.9	22.0	4.3		38		2.6		0	0	3	21	2	1	0	0	4
D. I. KHAN																							
Miranshah	0000	3026	(b) 911.3		(b) 1478.2	34.7	29.3	17.4	3.5		48		1.2		0	1	0	0	0	0	0	0	30
	0300		912.8	—	1495.2	39.9	34.7	24.4	4.8	+0.1	57	+3	2.1	—0.9	0	3	0	0	0	0	0	0	28
	1200		910.7		1498.3	58.9	45.6	26.6	5.2		30		1.7		0	9	0	0	0	0	0	0	22
Wana	0300	4503	*	—	*	35.1	31.5	24.8	4.5	—0.3	67	—3	2.5	+0.9	0	0	0	0	0	0	0	0	31
	1200		*		*	52.5	42.3	25.3	5.1		39		2.2		0	0	0	0	0	0	0	0	31
AFGHANISTAN																							
Kabul (x)	0300	5955																					
	1200																						
Kandahar (x)	0300	3462																					
	1200																						
QUETTA																							
Fort Sandeman (P.T)	0300	4614	862.7	0.0	1525.2	38.2	32.2	18.3	3.8	—1.4	49	—24	2.2	—0.4	0	1	1	1	1	0	0	0	27
	1200		860.1		1505.8	56.7	43.1	20.6	4.0		26		1.7		3	1	0	0	1	1	3	2	20
,, (P.B.O.)	0000	4615	861.5		1513.5	37.0	32.3	22.4	4.3		59		1.1		0	0	1	5	3	3	0	0	19
	0300		862.5	—	1523.5	37.6	32.7	23.3	4.4		59		2.6		0	2	0	3	2	3	0	0	21
	1200		869.3		1505.7	55.4	43.4	25.3	4.8		33		1.9		3	8	1	0	1	2	1	4	11
Hindubagh	0000	5909	*		*	33.1	26.6	12.8	2.6		42		0.6		0	0	0	0	0	3	22	0	6
	0300		820.4	—	1513.3	36.4	29.2	15.4	3.0		42		2.0		0	0	0	0	0	3	20	1	7
	1200		818.4		1488.2	51.9	39.6	22.1	4.0		32		2.2		0	0	6	0	0	8	17	0	0
Loralai	0000	4699	857.2		1499.9	34.9	31.0	22.7	4.4		65		1.9		4	6	3	1	1	3	1	0	12
	0300		858.9	—	1515.0	35.9	31.5	21.7	4.3		61		2.6		0	0	0	0	0	5	13	10	3
	1200		855.7		1486.5	54.0	43.2	26.4	5.2		38		2.9		0	0	2	14	7	3	0	2	3

(x) Data not available. (*) Observation rejected. (b) Mean for 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER, 1961

Division and Station	Hours of observation.	Height of bar cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temperature and M.S.L. or geopotential of 850/700 mbs. pressure level in Gpm.	Mean Temperature of the Air and Humidity: Dry bulb.	Wet bulb.	Dew point.	Vapour pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total Cloud Amount: Mean amount.	Departure from normal.	Wind Directons Number of Observations From—: N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Harnai	0300												1.5				*						
	1200												1.5				*						
Quetta (Samungli)	0000	5213	842.6		1516.6	30.1	27.6	23.9	4.2		78		2.3		0	0	2	6	0	1	1	0	20
	0300		843.3	—	1525.5	29.8	27.6	24.0	4.3	—	79	—	2.7	—	0	0	3	3	0	1	0	0	24
	1200		841.7		1505.7	52.0	40.1	21.2	4.3		34		2.7		3	0	0	3	1	1	8	10	5
Quetta (P.T.)...	0300	5490	835.2	—1.1	1527.3	41.0	34.0	22.7	4.2	—0.8	46	—27	2.0	—0.7	1	0	0	5	1	1	1	3	19
	1200		833.4		1505.4	51.7	39.9	21.2	4.6		32		2.8		2	0	0	0	3	2	2	9	13
Quetta (P.B.O.)	0000	5560	832.6		1562.1	33.0	29.3	23.5	3.1		67		1.5		0	2	2	0	4	0	0	0	23
	0300		832.8	—	1562.5	33.7	30.1	23.5	4.3	—	68		2.1	—	0	1	2	0	2	0	0	2	24
	1200		831.2		1544.3	51.4	40.8	25.5	5.0		39		3.2		0	0	0	0	1	4	2	5	19
Chaman	0000	4311	870.4		1506.8	43.1	35.2	23.6	4.5		47		2.0		0	0	23	4	3	0	0	0	1
	0300		871.4	—1.5	1516.1	42.9	35.8	22.4	4.3	—1.6	46	—14	2.3	—0.6	0	1	15	6	6	0	3	0	0
	1200		869.0		1497.5	55.9	43.1	23.5	4.4		30		2.8		1	0	0	2	2	8	18	0	0
Nushki	0000	3416	904.8		1547.7	47.6	40.5	29.8	5.7		52		1.3		1	0	19	0	0	0	0	0	11
	0300		905.3	—	1560.5	51.4	43.7	32.9	6.6	—	51		1.4	—	1	3	15	1	0	0	0	0	11
	1200		903.1		1551.5	63.0	52.3	41.8	9.1		48		1.9		2	0	0	1	5	4	4	6	9
Dalbandin	0000	2788	920.5		1494.7	41.9	37.0	28.5	5.6		60		1.3		2	13	3	4	1	0	0	0	8
	0300		921.7	—0.6	1501.0	40.0	35.3	26.6	5.1	—1.5	58	—11	2.1	—0.2	3	11	1	1	0	0	2	1	12
	1200		919.3		1514.3	66.2	50.8	32.0	6.5		30		2.3		0	2	6	8	1	8	0	2	4
KALAT																							
Kalat	0000	6616	798.2		1508.6	29.4	*	*	*		*		1.6		0	0	0	2	18	0	4	5	2
	0300		799.2	—2.4	1518.4	30.9	*	*	*	—	*		1.5	—0.7	1	0	0	0	24	0	2	2	2
	1200		797.6		1485.6	47.9	39.1	27.0	5.0		44		1.7		5	0	1	1	5	2	3	14	0
Panjgur	0000	3177	907.1		1495.7	44.8	39.6	30.7	6.2		62		1.0		4	21	3	0	0	1	1	0	1
	0300		908.2	—0.6	1506.0	44.0	39.0	30.3	6.1	—0.5	62	—16	1.9	—0.3	3	19	1	0	0	1	0	0	7
	1200		906.1		1507.6	64.3	50.1	32.9	6.6		33		2.4		12	0	0	0	0	16	0	2	1

(x) Data not available. (*) Data rejected.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF DECEMBER, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (Inches)						Wind Velocity (Knots)		Weather Number of Days				
																	Visibility Code Figure 93 or less				
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
CHITTAGONG DIVISION																					
Rangamati	78.6		81	4 days	58.6		52	23,25	0.00		0.00	0	000		x		0	0	30	0	0
Cox's Bazar (P.T.)	78.6	—1.1	81	6 days	56.5	—2.2	51	17	0.00	—0.98	0.00	0	0	—0.6	x		0	0	0	0	0
Chittagong (P.B.O.)	77.2		81	1,7	56.4		53	17,18	0.00		0	0	0		x		0	0	3	0	0
Chittagong (P.T.)	78.3	—0.7	81	1,3	54.9	—2.3	52	17,18,23	0.00	—0.64	0	0	0	—0.7	x		0	0	1	0	0
Maijdee Court	76.6	—1.9	80	2	52.9	—6.8	50	25,29,31	0.00	—0.28	0.00		0	—0.4	x	—	0	0	2	0	0
Comilla (R)																—					
Brahmanbaria	76.9	—2.9	80	7 days	54.1	—1.3	49	25,28	0.00	—0.31	0.00	0	0	—0.5	1.2		0	0	11	0	0
Sylhet (P. B. O.)	77.8		81	2,9	53.8		48	24	0.00		0.03	0	0		x		0	0	5	0	0
Srimangal	79.4	—1.0	83	27,30,31	45.9	—3.6	41	18,28	0.00	—0.25	0.00	0	0	—0.5	0.5	—0.6	0	0	5	0	0
DACCA DIVISION																					
Mymensingh	76.0	—1.7	82	1	53.3	—2.5	48	24,25	0.00	—0.09	0.00	0	0	—0.3	x		0	0	2	0	0
Jamalpur (R)																					
Narayanganj	78.6	+0.1	82	1,5,6	54.1	—3.4	48	24,25	0.00	—0.20	0.00	0	0	—0.4	1.7	+0.6	0	0	2	0	0
Dacca (Tejgaon)	76.4		80	1,6	50.7		45	24,25	0.00		0.00	0	0		3.5		0	0	2	0	0
Faridpur	73.4	—3.0	77	1,5,13	51.8	—3.1	45	24	0.00	—0.15	0.00	0	0	—0.3	1.2	—0.1	0	0	0	0	0
KHULNA DIVISION																					
Barisal	76.7	—1.4	80	13	54.8	—1.8	49	25	0.00	—0.25	0.00	0	0	—0.5	x		0	0	9	0	0
Khulna	77.5	—1.2	82	2	45.5	—2.8	49	27	0.00	—0.19	0.00	0	0	—0.3	0.9	—0.8	0	0	2	0	0
Satkhira	76.8	—3.8	81	13	50.6	—3.8	46	26	0.00	—0.17	0.00	0	0	—0.3	0.3	—0.6	0	0	0	0	0
Jessore (P.T.)																					
RAJSHAHI DIVISION																					
Pabna	76.0	—3.8	79	1,2,7	52.4	—1.8	46	24,27	0.00	—0.15	0.03		0	—0.3	x		0	0	2	0	0
Ishurdi	(a) 73.8		79	1	49.7		43	31	0.00		0.00	0	0		x		0	0	18	0	0
Serajganj	76.2		84	7,8	52.5		46	24,25,26	0.02	—0.07	0.02	19	0	—0.8	2.7		0	0	10	0	0
Rajshahi (R)																					
Bogra (P.B.O.)	74.8	—1.9	80	4,5	52.3	—2.2	46	25	0.00	—0.09	0.01	14,19	0	—0.2	2.3	+1.4	0	0	1	0	0
Dinajpur	76.1	—1.0	84	1	48.7	—3.3	42	30	0.14	+0.08	0.07	15,19	0	—0.1	x		1	0	8	0	0
Rangpur	74.5		80	5	50.2		44	30,31	0.18	+0.10	0.18	19	1	+0.8	1.6		0	0	24	0	0

(R) Register not received. (a) Observation for 30 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF DECEMBER, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR																					
Jammu (x)																					
LAHORE																					
Lahore (P.B.O.)	67.7	—4.6	73	2,5,8	39.7	—0.9	36	23	0.26	—0.21	0.19	17	1	0.0	0.9	+0.1	1	0	0	0	0
„ (Cantt.)	67.1	—	73	5,8,16	38.3	—	34	24	0.18	—	0.11	31	1	—	1.3	—	2	0	19	0	0
Sialkot (R)																					
RAWALPINDI																					
Jhelum	68.2	—	75	6	38.2	—	35	4 days	0.12	—	0.07	17	0	—	1.5	—	0	0	0	0	0
Chakiala	63.4	—	69	1,4,5	35.0	—	31	22	0.34	—	0.18	17	2	—	2.8	—	0	0	4	0	0
Rawalpindi	63.8	—3.0	70	1,8	35.8	—2.0	33	22	0.35	—0.91	0.17	16	2	—0.3	1.6	+0.4	0	0	1	0	0
Campbellpur (R)																					
SARGODHA																					
Khushab	70.8	—0.9	80	4	38.6	—2.9	35	6 days	0.00	—0.43	0.00		0	—0.9	2.0	+0.1	0	0	0	0	0
Sargodha	69.1	—	77	4	36.2	—	33	30	0.00	—	0.00		0	—	3.1	—	0	0	3	1	0
Mianwali	67.2	—	78	6	*	—	—	—	0.00	—	0.00		0	—	(x)	—	0	0	0	0	0
Lyallpur	*	—	—	—	40.0	—2.2	38	4 days	0.07	—0.18	0.07	16	0	—0.8	0.3	—0.9	0	0	6	0	0
MULTAN																					
Montgomery	70.8	—1.2	77	3	41.3	—1.8	39	4 days	0.02	—0.24	0.02	16	0	—0.8	(x)	—	0	0	1	0	0
Multan (P.B.O.)	70.8	—	78	3	39.8	—	35	6,22	0.02	—	0.02	26	0	—	1.5	—	0	0	5	0	0
„ (Surface)	71.0	—0.7	80	3	44.4	+1.0	41	4 days	0.00	—0.24	0.00		0	—0.7	(x)	—	0	0	1	0	0
Leiah (R)																					
BAHAWALPUR																					
Khanpur (P.B.O.)	73.2	—	82	3	41.0	—	36	23	0.00	—	0.00		0	—	1.9	—	0	0	0	0	0
Bahawalpur	73.4	—0.6	83	4 days	42.6	—1.0	38	22	0.00	—0.22	0.00		0	—0.6	1.3	—0.3	0	0	0	0	0
Fort Abbas	(a) 69.9	—	80	2	41.2	—	38	6,22,23	0.00	—	0.00		0	—	1.1	—	0	0	0	0	0
PESHAWAR																					
Chakdara	57.6	—	61	6 days	34.7	—	32	28	0.14	—	0.14	16	1	—	(x)	—	0	0	0	0	0
Peshawar	65.1	—1.6	71	5	38.7	—2.2	35	22	0.00	—0.67	0.00		0	—1.6	0.9	—0.2	0	0	0	1	0
Risalpur	64.7	—	71	5,6	33.9	—	30	22,29	0.05	—	0.05	16	0	—	1.6	—	0	0	9	0	0
Haripur	64.6	—	70	4	38.0	—	35	22	0.21	—	0.21	16	1	—	4.8	—	0	0	0	0	0
Kohat (PAF)	65.5	—	73	3,5,6	43.0	—	40	5 days	0.10	—	0.10	16	1	—	5.2	—	0	0	0	0	0
D. I. KHAN																					
Bannu	*	—			40.5	—1.5	37	7	0.00	—0.40	0.00		0	—1.5	0.6	—	0	0	0	0	0
D. I. Khan	70.6	—0.9	77	4 days	40.4	—0.8	36	28	0.00	—0.24	0.00		0	—0.7	0.1	—0.5	0	0	0	0	0
AFGHANISTAN																					
Jalalabad (x)																					

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF DECEMBER, 1961.

DIVISION AND STATION	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
																			Visibility Code Figure 93 or less		
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog.	Haze (dust).	Dust Storm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
QUETTA																					
Sibi	74.8	—0.1	85	2	43.8	—1.7	40	6 days	0.12	—0.18	0.12	25	1	+0.3	1.2	—0.3	0	0	0	0	0
KALAT																					
Nokkundi	72.5	+1.6	82	16	46.5	+3.1	37	18,19,20	0.00	—0.14	0.00	—	0	—0.3	x	—	0	0	0	0	0
Turbat	81.4	—	89	1,16	(x)	—	x	—	0.00	—	0.00	—	0	—		—	0	0	0	0	0
Jiwani	78.6	—	86	7	60.5	—	54	6,31	1.81	—	0.83	29	3	...	5.1	—	4	0	0	0	0
Pasni	79.1	+1.2	87	8	60.9	+4.3	52	23,31	0.66	—0.18	0.41	29	2	+0.5	5.9	+1.5	3	0	0	0	1
KARACHI FEDERAL TERRITORY																					
Ormara	79.0	+1.6	89	3,8	58.4	—0.5	50	19	0.62	—0.20	0.49	25	2	+0.8	3.2	—0.5	0	0	0	0	0
Lasbela (R)																					
Karachi (Manora)	79.5	+0.8	88	5	59.0	—1.1	53	23	0.00	—0.20	0.00	—	0	—0.5	x	—	0	0	0	0	0
Karachi (Mauripur)	80.2	—	86	4	56.0	—	50	18,23	0.00	—	0.00	—	0	—	x	—	0	0	0	0	0
Karachi (City)	80.3	—	89	3,4,5	54.1	—	48	27	0.06	—	0.06	15	0	—	1.8	—	0	0	0	0	0
Karachi (Airport)	81.0	—	88	3	51.3	—	45	20,21,22	0.06	—	0.06	16	0	—	3.0	—	0	0	0	0	0
Gadap (R)																					
HYDERABAD																					
Mithi	83.2	—	91	3	41.7	—	37	6,7,18	0.00	—	0.00	—	0	—	3.5	—	0	0	0	0	0
Nagarparkar	80.4	—	87	3	x	—	x	—	0.00	—	0.00	—	0	—	x	—	0	0	0	0	0
Umarkot	80.1	—	86	4 days	45.9	—	39	21	0.00	—	0.00	—	0	—	x	—	0	0	0	0	0
Chhor	81.1	—	88	4	41.8	—	35	21,23	0.00	—	0.00	—	0	—	0.9	—	0	0	0	0	0
Hyderabad	79.8	+1.2	87	8	52.7	+0.1	47	22,23	0.00	—0.10	0.00	—	0	—0.3	2.1	—1.4	0	0	0	1	0
Badin	81.9	+1.4	89	8	48.8	—3.0	44	22	0.00	—0.15	0.00	—	0	—0.4	x	—	0	0	0	0	0
KHAIRPUR																					
Padidan	75.6	—	83	2,8	42.6	—	38	22,23	0.00	—	0.00	—	0	—	2.4	—	0	0	0	0	0
Nawabshah	76.4	—	83	16	45.0	—	39	6	0.11	—	0.00	—	0	—	0.7	—	0	0	0	1	0
Sukkur	75.5	—0.7	85	8	49.4	+0.7	45	22	0.00	—0.03	0.00	—	0	—0.2	x	—	0	0	0	0	0
Kashmore	75.7	—	84	1	x	—	x	—	0.00	—	0.00	—	0	—	x	—	0	0	0	1	0
Jacobabad	74.8	+0.4	83	4	47.1	+0.6	43	3 days	0.00	—0.17	0.00	—	0	—0.5	3.0	+1.0	0	0	0	0	0
JUNAGADH																					
Veraval	x	—	x	—	—	—	x	—	0.00	—	0.00	—	0	—	x	—	0	0	0	0	0
ARABIA																					
Muscat (x)																					
... ...																					
HILL STATIONS																					
KASHMIR																					
Srinagar (x)																					
Gulmarg (x)																					
Gurez (x)																					
Sonamarg (x)																					
Dras (x)																					
Kargil (x)																					
Leh (x)																					
Skardu (x)																					

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF DECEMBER, 1961.

Division and Station	Maximum Temperature of the Air °F				Minimum Temperature of the Air °F				Precipitation (inches)						Wind Velocity (knots)		Weather Number of Days				
	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Days with 0.10 inch or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard.	Hail.	Fog. (Visibility Code Figure 93 or less)	Haze (dust). (Visibility Code Figure 93 or less)	Dust Storm (Visibility Code Figure 93 or less)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR																					
Misgar	29.9	—	39	2	7.6	—	03	29,30	0.21	—	0.09	31	0	—	2.6	—	0	0	0	0	0
Aliabad (x)																					
Gilgit (x)																					
RAWALPINDI																					
Murree	45.5	—5.2	55	5	31.2	—3.7	24	19	1.02	—0.78	0.60	16	3	—0.2	5.5	+1.1	0	0	3	0	0
PESHAWAR																					
Drosh	50.1	—0.4	57	17	33.8	—1.8	31	21,22,26	0.19	—1.01	0.14	25	1	—2.2	3.6	+1.8	0	0	0	0	0
Cherat	53.1	—0.7	63	8	38.3	—4.1	33	16,18	0.56	—1.00	0.56	16	1	—1.2	*	—	0	0	0	0	0
Kakul	56.1		64	5	37.8	—	34	22	1.36	—	0.49	17	3	—	(x)	—	0	0	3	0	0
Balakot	59.9		66	7	35.5		32	21,22	1.67		0.93	17	3		1.7		3	0	0	0	0
Landikotal	55.6	—	63	8	32.8	—	27	19,21	0.24	—	0.24	24	1	—	(x)	—	0	0	0	0	0
Parachinar	53.3	—1.5	64	6	(b) 33.3	+0.8	27	19,20,21	0.34	—0.89	0.34	16	1	—1.9	2.2	+0.5	0	0	0	0	0
D. I. KHAN																					
Miransahah	62.3	—1.7	73	6	*	—	—	—	0.38	—0.32	0.37	16	1	—0.8	*	—	0	0	0	0	0
Wana	57.8	—2.1	65	2,7	30.3	+0.8	25	18	0.30	—0.40	0.15	16,25	2	+0.2	0.0	—	0	0	1	0	0
QUETTA																					
Fortsandeman (P.T.)	59.1	—0.8	66	3,6	34.0	+0.6	27	19	0.18	—0.39	0.14	16	1	+0.8	x	—	0	0	0	0	0
,, (P.B.O.)	58.1	—	65	7	35.5	—	26	19	0.16	—	0.16	16	1	—	2.1	—	0	0	1	0	0
Hindubagh	54.7	—	61	5	x	—	x	—	0.77	—	0.20	25	4	—	5.9	—	0	0	0	0	0
Loralai	58.5	—	69	7	30.4	—	25	4 days	0.15	—0.35	0.15	25	1	—0.5	2.7	—	0	0	0	0	0
Harnai	x		x		x		x	—	0.67	—0.10	0.45	25	2	+0.6	x	—	0	0	0	0	0
Samungli	55.2	—	64	16	26.1	—	15	19	1.32	—	0.41	25	4	—	8.7	—	3	0	0	0	0
Quetta (P.T.)	54.6	—	64	16	27.7	—	15	19	1.21	—	0.39	24	4	—	2.0	+0.3	0	0	0	0	0
,, (P.B.O.)	55.8	—	65	16	28.6	—	22	20	1.43	—	0.39	24	4	—	2.4	—	0	0	0	0	0
Chaman	58.8	+1.8	67	16	37.2	+0.4	28	12,13,14	1.52	+0.17	0.73	30	4	+0.8	x	—	0	0	0	0	0
Nushki	65.6	—	73	16	46.7	—	39	18,19,31	0.95	—	0.45	29	4	—	x	—	0	0	0	0	0
Dalbandin	69.3	+4.1	76	16	37.7	+2.7	25	18	0.11	—0.57	0.07	29	0	—1.8	3.8	+1.4	0	0	0	0	0
KALAT																					
Kalat	53.0	—2.3	66	4	26.1	0.0	14	18	1.49	+0.55	0.06	29	2	—0.2	x	—	0	0	0	0	0
Panjgur	66.5	0.0	74	13	40.7	+0.9	33	19,20	0.18	—0.39	0.18	29	1	—0.4	x	—	0	0	0	0	1
AFGHANISTAN																					
Kabul (x)																					
Kandahar (x)																					

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