Pakistan. Meteorological Dept.

REGD. No. S - 1452

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1959

PAKISTAN WEATHER REVIEW, 1959

MONTHLY WEATHER REPORT

January

(PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN)

Chief Features:

1. Fairly widespread rain practically over the whole of West Pakistan between the 3rd and the 5th, followed by a mild cold wave over Quetta and adjoining southern divisions.

2. Frequent wet weather mainly over the northern divisions of West Pakistan during the second fortnight.

3. Pronounced rainfall activity in East Pakistan between the 22nd and the 23rd.

West Pakistan

In association with the eastward passage of a western disturbance from Afghanistan and its secondary from South Kalat division to Rajasthan, rain occurred locally in Quetta and Kalat Divisions on the 3rd. The rainfall activity extended practically to the whole of West Pakistan during the next two days when there was widespread rain with isolated thunderstorms in Lahore, Rawalpindi, Multan and Peshawar divisions and fairly widespread in Dera Ismail Khan, Khairpur and Quetta divisions. A few falls of snow over the hills of Peshawar and Dera Ismail Khan were also reported. This was followed by a mild cold wave which started affecting Quetta division on the 4th and extended to Hyderabad division and the Federal Capital Area the next day causing night temperatures to fall considerably below normal.

Thereafter, weather remained dry during the first fortnight except for scattered rain or thundershowers in South Kalat division and the Federal Capital Area between the 11th and the 12th under the influence of a western disturbance which moved from Trucial Oman to South Kalat division where it filled up.

Two western disturbances moved in close succession from Afghanistan to Kashmir towards the middle of the third week while a secondary associated with the first which appeared off the Mekran Coast on the 18th filled up the next day. They caused local to fairly widespread rainfall over the region outside Khairpur and Hyderabad divisions and the Federal Capital Area, with a few snow falls over the hills between the 18th and the 20th and scattered rainfall in Rawalpindi division on the 21st.

Under the influence of three subsequent western disturbances which moved in close succession across the north of the region during the rest of the month and a secondary which moved from Kalat and adjoining Quetta division to northeast Rajasthan between the 24th and the 26th, fairly widespread rain or thundershowers occurred in Peshawar, Dera Ismail Khan, Rawalpindi and Lahore divisions and scattered in North Kalat, Quetta and Multan divisions, between the 24th and the 30th. A few snow-falls were also reported from the hills of Peshawar and Rawalpindi divisions on some of the days.

Principal amounts of rainfall recorded during the month were:— Chaman 3" and Loralai 4" ont the 4th, Drosh and Cherat 2" each on the 5th, Jiwani 4" on the 18th and Drosh 2" on the 25th.

The total rainfall during the month was in large defect in the Federal Capital Area, in slight defect in Khairpur and Kalat divisions, in moderate excess in Hyderabad, Rawalpindi and Lahore divisions and in large excess elsewhere. Averaged over the region as a whole it was in large excess.

The mean maximum temperature was below normal in Lahore division, above normal in Hyderabad division and normal elsewhere.

The mean minimum temperature was above normal in Lahore, Multan, Bahawalpur and Khairpur divisions and normal over rest of the region.

The mean relative humidity was normal in Peshawar, Quetta and Kalat divisions and in excess elsewhere.

The mean cloud amount was in defect in Bahawalpur, Peshawar, Kalat division, the Federal Capital Area and Hyderabad divisions and normal elsewhere.

East Pakistan

Weather was dry in East Pakistan, except during the last week when local rain fell over the region between the 22nd and the 24th and again between the 30th and the 31st under the influence of a westerly low pressure wave and two secondary western disturbances which moved across the region.

Chief amounts of rainfall recorded during the month were:— Satkhira 1" on the 22nd, Maijdee Court 4" and Bogra 2" each on the 23rd and Dinajpur 1" on the 30th.

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

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.

Table I contains the divisional means of rainfall, temperatures humidity and cloud amount for the 15 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, 1959.

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	1.96	0.27	+1.69	+626	—0.3	—1.7	+0.7	—2	+0.1
Dacca	1.00	0.37	+0.63	+170	0.0	—1.9	+0.8	+2	+0.1
Rajshahi	1.47	0.39	+1.08	+277	+0.3	—2.6	+1.3	+2	+0.2
Mean	1.49	0.35	+1.14	+326	0.0	—2.1	+1.0	+1	+0.1
WEST PAKISTAN									
Kashmir (x)...									
Lahore	2.14	1.50	+0.64	+43	—2.2	—2.1	+1.5	+7	—0.3
Rawalpindi	3.12	2.32	+0.80	+34	—0.7	0.0	+0.8	+11	—0.6
Multan	1.12	0.39	+0.73	+187	—1.0	+2.3	+0.5	+14	—0.3
Bahawalpur	0.99	0.16	+0.83	+519	—1.1	+3.2	+1.6	+9	—1.1
Peshawar	5.93	1.71	+4.22	+247	0.0	—0.2	+0.1	+2	—0.9
D. I. Khan	1.86	1.04	+0.82	+79	—0.4	+1.1	+0.7	+8	—0.1
Quetta	2.46	0.89	+1.57	+176	+0.9	+0.3	+0.4	+2	—0.4
Kalat	0.95	1.10	—0.15	—14	+0.2	+0.2	+0.4	+1	—0.6
Federal Capital Area	0.00	0.46	—0.46	—100	—0.2	—0.2	+2.3	+7	—0.5
Hyderabad	0.23	0.16	+0.07	+44	+2.2	—0.9	+1.7	+15	—1.1
Khairpur	0.15	0.20	—0.05	—25	+0.1	+2.5	+0.9	+7	+0.1
Mean	1.61	0.87	+0.74	+85	+0.1	+0.7	+0.8	+6	—0.6
Junagadh (x)									

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY, 1959.

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 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
EAST PAKISTAN																							
Chittagong Division																							
Rangamati	0000	208	1009.1		1016.8	51.7	51.7	51.6	13.5		100		5.2		2	1	0	0	3	0	0	1	24
	0300		1011.0		1018.6	60.8	57.8	55.5	15.1		82		2.4		10	0	2	0	10	0	1	1	7
	1200		1007.5		1015.0	71.2	62.4	55.7	14.9		58		1.3		19	1	0	0	2	2	3	0	4
Cox's Bazar	0300	38	1015.8	0.5	1017.1	69.9	63.5	59.0	17.1	0	69	−4	2.0	+0.6	11	8	4	3	0	1	0	4	0
	1200		1013.2		1014.6	70.4	65.3	61.4	18.8		75		2.8		3	0	0	1	2	1	6	18	0
Chittagong (Patenga)	0000	20	1014.5		1015.3	58.5	57.6	56.1	16.0		94		1.6		1	19	2	1	0	0	0	0	8
	0300		1016.7		1017.4	65.9	61.1	57.5	16.1		74		2.0		3	25	0	2	1	0	0	0	0
	1200		1013.5		1014.3	71.1	64.3	60.1	17.2		66		1.9		1	1	0	0	0	2	10	13	4
Chittagong	0300	46	1016.1	+0.7	1017.7	68.3	62.6	59.1	16.8	+0.7	72	−5	1.6	+0.2	4	16	7	1	1	0	0	0	2
	1200		1012.4		1014.0	70.4	64.8	61.4	18.2		73		1.6		10	1	1	1	0	3	5	9	1
Maijdee Court	0000	25	1014.3		1015.3	57.6	56.3	55.0	14.9		91		0.3		0	1	0	0	0	0	0	0	30
	0300		1016.5	+0.3	1017.4	66.6	61.4	57.8	16.6	−0.4	71	−6	1.2	−0.4	0	0	0	0	0	0	0	1	30
	1200		1013.2		1014.1	69.3	63.9	58.3	17.5		73		0.6		0	0	0	0	0	0	0	0	31
Comilla	0000	29	1014.2		1015.2	57.4	56.4	55.3	14.9		94		5.4		0	0	0	0	0	0	0	0	31
	0300		1016.2	0.1	1017.2	65.8	61.4	57.4	16.6	−0.6	76	+1	1.0	−0.3	0	0	0	0	0	0	0	0	31
	1200		1013.4		1014.3	70.3	64.3	59.9	17.7		70		1.3		0	0	0	0	0	0	0	0	31
Brahmanbaria	0000	32	1014.6		1015.8	56.9	55.6	54.1	14.4		90		1.6		0	1	0	2	0	0	0	0	28
	0300		1016.9		1018.0	65.7	61.2	56.9	16.6	+1.9	76	+6	1.7		0	5	1	1	0	3	1	1	19
	1200		1013.3		1014.4	68.6	62.6	57.9	15.6		69		1.7		0	1	1	0	0	0	0	0	29
Srimongal	0000	69	1013.7		1016.2	49.6	48.9	48.4	11.6		96		1.6		0	0	0	0	0	0	0	0	31
	0300		1015.3	0.0	1017.8	62.5	59.1	56.6	15.5	+1.3	80	−4	1.8	+0.4	0	1	0	0	1	0	0	0	29
	1200		1011.9		1014.4	64.3	61.0	58.6	16.7		81		2.0		0	0	0	0	0	0	0	0	31
Sylhet	0000	115	1011.2		1015.2	55.5	54.4	53.5	13.8		93		1.3		0	0	21	0	0	0	1	0	9
	0300		1013.1		1017.2	63.1	59.4	56.6	15.8		80		2.0		0	0	26	0	0	0	1	0	4
	1200		1009.8		1013.9	67.2	61.3	55.9	15.6		69		2.2		0	2	0	0	0	0	12	2	15
Dacca Division																							
Mymensingh	0000	62	1013.5		1015.8	55.8	54.4	53.2	13.8		90		1.2		0	1	3	0	0	0	4	0	23
	0300		1015.9	+0.4	1018.1	60.9	58.5	56.5	15.6	+0.7	85	+4	1.6	−0.3	1	3	13	2	0	0	9	0	3
	1200		1012.3		1014.5	70.0	63.3	58.6	17.1		68		1.9		0	1	3	0	0	0	5	0	22
Narayanganj	0000	26	1014.4		1015.3	58.4	56.8	55.4	14.9		91		2.1		1	0	1	0	0	0	0	0	29
	0300		1016.5	0.0	1017.4	65.3	60.3	56.6	15.4	0.0	73	−3	2.1	+0.3	1	2	6	0	3	0	1	3	15
	1200		1013.1		1014.0	70.2	63.0	57.7	16.5		66		1.9		0	2	0	0	0	0	0	0	29
acc (Tejgaon)	0000	27	1013.7		1014.7	54.6	53.7	52.9	13.8		93		1.9		4	4	2	1	0	0	0	2	18
	0300		1016.2		1017.2	64.0	59.7	56.3	15.3		75		2.2		6	5	1	4	0	0	0	4	11
	1200		1012.7		1013.7	68.4	61.5	56.1	15.2		65		2.3		2	1	3	1	0	0	7	7	10

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY, 1959.

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																							
Faridpur	0000	46	1013.9		1015.6	54.6	53.8	52.6	13.8		93		1.9		8	0	0	0	0	0	1	3	19
	0300		1015.6	+0.2	1017.2	63.2	59.6	56.8	15.8	+0.9	80	+3	2.0	+0.7	11	1	0	0	0	1	1	3	14
	1200		1012.4		1014.0	70.9	63.7	58.9	17.2		66		2.0		4	0	0	1	1	0	0	1	24
Barisal	0000	11	1015.0		1015.4	60.0	58.4	56.8	16.1		91		0.7		0	0	0	0	0	0	0	0	31
	0300		1017.3	+0.3	1017.7	66.9	62.7	59.2	17.9	+1.5	79	+3	1.3	−0.1	14	6	0	0	2	0	0	0	9
	1200		1013.4		1013.8	74.1	65.6	60.0	17.6		61		2.1		4	1	0	2	2	0	0	0	22
Rajshahi Division																							
Khulna	0000	16	1014.8		1015.4	59.1	57.9	56.9	16.0		94		1.4		0	0	0	0	0	0	0	0	31
	0300		1017.3	+0.1	1017.8	67.2	62.3	58.1	16.7	+2.0	74	+7	1.4	−0.2	0	2	0	0	0	0	1	1	27
	1200		1013.3		1013.9	72.7	64.9	59.8	17.5		63		0.3		0	0	0	0	0	0	0	0	31
Satkhira	0000	16	1015.1		1015.7	58.0	56.6	55.5	14.9		91		0.8		0	0	0	0	0	0	0	0	31
	0300		1017.2	+0.2	1017.8	65.6	60.9	57.6	16.6	+2.0	76	−2	1.4	0.0	12	7	1	1	0	2	0	2	6
	1200		1014.2		1014.7	72.0	65.6	61.3	18.5		69		1.4		1	0	0	0	0	0	0	0	30
Jessore	0000	26	1014.1		1015.0	54.4	53.3	52.3	13.3		93		2.4		1	0	0	0	0	1	0	0	29
	0300		1016.7	−0.2	1017.6	63.1	59.5	56.5	15.8	+1.3	80	+5	2.1	+0.6	9	7	6	0	2	3	0	4	0
	1200		1013.3		1014.2	74.4	64.2	56.9	15.9		55		1.1		20	0	2	0	2	1	4	2	0
Pabna	0000	48	1013.8		1015.5	55.4	54.3	53.4	13.8		93		0.0		2	5	0	1	0	(e) 2	1	3	12
	0300		1015.7		1017.4	62.9	58.8	55.6	14.7	+0.2	75	−2	2.1		7	6	4	1	0	4	1	8	0
	1200		1012.2		1013.9	69.3	62.9	58.5	16.4		67		1.4		1	6	1	0	(a) 0	2	3	11	6
Sirajganj	0000	51	1013.5		1015.4	55.6	54.9	54.7	14.5		97		1.5		1	0	0	0	0	0	0	0	30
	0300		1015.2		1017.1	64.6	60.7	57.9	16.2		78		3.3		0	1	3	0	0	2	1	1	23
	1200		1012.1		1013.9	66.7	63.4	61.3	18.7		81		1.3		1	0	1	0	0	0	0	0	29
Rajshahi	0000																						
	0300												3.9										
Bogra P.B.O.	0000	65	1013.1		1015.4	54.4	53.5	52.5	13.3		93		1.9		0	3	2	1	0	0	2	0	23
	0300		1015.4	+0.1	1017.7	61.6	58.6	56.2	15.7	+1.5	83	+3	2.1	+0.3	3	7	4	0	1	4	2	5	5
	1200		1011.7		1014.0	68.9	63.3	59.5	17.5		73		1.7		0	1	2	0	0	1	3	1	23
Dinajpur	0000	123	1010.8		1015.3	51.5	54.4	49.6	14.8		100		1.9		0	0	3	0	0	0	0	0	28
	0300		1013.4	+0.3	1017.8	60.8	57.1	54.0	14.6	+1.1	80	−4	1.8	+0.3	0	0	1	0	0	0	0	0	30
	1200		1009.4		1013.7	68.4	61.1	56.0	14.6		63		0.9		0	0	1	0	0	0	0	0	30
Rangpur	0000					53.2	52.3	51.2	12.8		93		2.0		1	0	2	0	0	0	12	1	15
	0300					59.8	57.6	55.5	15.6		88		2.3		3	7	3	1	0	3	4	2	8
	1200					68.1	62.2	58.2	16.3		70		2.0		2	0	0	1	0	2	2	0	24

(a) observation for 26 days

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY, 1959.

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 (Jail Road)	0000	702	991.0		1016.9	45.6	45.2	44.8	10.0		97		2.2		0	0	1	2	0	0	0	1	27
	0300		992.4	−0.4	1018.3	46.2	45.4	44.6	9.9	+1.3	94	+10	2.9	−0.1	0	1	0	3	0	0	1	0	26
	1200		990.7		1015.7	61.8	55.7	49.9	12.4		66		3.4		0	1	0	2	3	1	1	4	19
,, (Cantt.)	0000	705	990.3		1016.4	46.3	45.2	44.1	9.7		91		2.0		2	1	2	2	0	1	3	2	18
	0300		991.6	—	1017.8	46.2	45.2	44.0	9.8		92		3.0		1	2	0	2	2	3	2	6	13
	1200		990.0		1015.2	61.9	54.9	47.9	11.5		61		3.3		3	0	3	0	0	6	4	10	5
,, (Walton)	0000	699																					
	0300		992.3	—	1018.1	46.1	45.3	44.3	9.9		94		2.3		1	0	1	3	3	1	1	6	15
	1200		990.1		1015.1	62.1	56.0	50.5	12.6		66		3.3		0	0	1	1	2	3	2	17	5
Sialkot	0000	830	(d) 986.2		(d) 1016.9	45.3	44.2	43.5	9.3		91		2.3		0	1	0	0	0	0	0	2	28
	0300		987.3	−1.1	1017.8	49.0	47.7	46.7	10.8	+1.7	97	+4	2.0	−0.6	1	2	0	2	0	0	0	0	26
	1200		985.4		1014.9	61.1	55.4	50.2	12.5		68		2.9		0	2	1	2	0	0	0	4	22
RAWALPINDI																							
Jhelum	0000	765	988.5		1016.7	45.7	44.1	42.3	9.1		87		2.8		2	0	1	1	1	1	1	4	20
	0300		990.0		1018.2	45.9	44.2	42.3	9.1	—	86	—	2.9		3	1	1	0	0	1	2	5	18
	1200		988.0		1015.4	60.5	53.8	46.9	11.0		62		3.5		0	3	0	1	0	0	3	6	18
Chaklala	0000	1667	957.5		1018.3	41.5	40.8	40.2	8.4		94		2.7		6	1	0	2	0	1	3	8	10
	0300		958.6		1019.6	40.8	40.2	39.7	8.3	—	95	—	3.7		1	2	0	0	0	0	5	7	16
	1200		957.0		1015.9	57.1	50.1	43.2	9.5		59		4.3		0	3	1	0	1	1	19	2	4
Rawalpindi	0000	1676	x		x	41.7	40.6	39.2	8.1		92		2.0		6	1	0	0	0	4	4	4	12
	0300		x		x	41.9	41.1	39.9	8.4	+1.0	94	+12	3.0	−0.2	6	1	2	0	1	3	5	1	12
	1200		x		x	55.6	50.3	44.9	10.3		68		4.1		3	0	1	0	2	2	14	2	7
Khushab	0000	616	*		*	(a) 42.9	(a) 41.7	(a) 40.7	(a) 8.4		(a) 92		1.4		2	0	1	0	0	0	0	0	28
	0300		*		*	45.4	43.9	42.4	9.1	+2.1	88	+22	1.4	−1.3	2	0	5	0	0	2	0	0	22
	1200		*		*	63.2	54.8	45.7	10.9		55		2.3		4	1	1	1	1	1	1	0	21
Sargodha (x)	0300	614																					
	1200																						
MULTAN																							
Lyallpur	0000	605	994.7		1017.1	44.5	43.9	43.0	9.5		96		2.0		0	1	0	0	0	1	1	6	22
	0300		995.6	−1.0	1018.1	43.4	43.0	42.5	9.2	+0.7	96	+19	2.8	−0.8	0	1	1	0	0	0	1	1	27
	1200		994.0		1015.7	62.3	54.0	45.9	10.5		55		3.5		2	2	0	0	0	0	2	2	23
Montgomery	0000	558	996.2		1016.8	44.6	44.1	43.5	9.6		96		1.6		0	3	0	5	0	1	0	1	21
	0300		997.7	−0.5	1018.2	45.7	44.9	44.1	9.8	+1.9	92	+15	2.1	−0.3	0	1	0	2	0	1	0	1	26
	1200		996.3		1016.1	63.7	54.8	45.6	10.6		53		2.1		0	0	0	2	0	3	0	1	25
Multan (P.B.O.)	0000	404	1001.7		1016.9	45.3	43.8	42.7	9.0		88		1.8		4	2	1	0	2	0	1	0	21
	0300		1003.5		1018.7	45.3	44.1	42.6	9.3		90		2.6		5	0	0	2	0	0	0	2	22
	1200		1001.4		1016.0	64.4	55.7	47.1	11.2		33		2.3		6	3	0	1	4	3	0	2	12
Multan (Surface)	0300	413	1003.1	−0.6	1018.3	49.0	46.7	44.0	9.9	+0.4	83	+9	2.7	+0.3	7	3	0	3	1	1	0	1	15
	1200		1001.3		1015.9	65.4	56.1	47.3	10.7		52		2.4		7	2	1	0	0	0	0	0	21

(x) Data not available. (*) 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, 1959.

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 980 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										
BAHAWALPUR																							
Leiah (R)	0000	490																					
	0300																						
	1200																						
Khanpur (Surface) (R)	0300	297																					
	1200																						
" (P.B.O.	0000	290	1005.7		1016.6	44.4	43.3	42.1	9.0		91		1.3		0	2	0	1	0	1	0	0	26
	0300		1007.4		1018.2	45.9	44.3	42.0	9.2		87		1.6		2	7	0	1	0	1	0	0	20
	1200		1004.9		1015.3	66.9	55.5	44.0	9.9		43		2.3		7	7	0	0	0	2	3	1	11
Bahawalpur	0300	384	1004.9	—0.1	1019.1	47.6	45.2	42.4	9.2	+1.6	82	+9	1.5	—1.1	0	6	1	4	0	2	0	1	17
	1200		1002.3		1016.3	66.2	55.5	44.3	10.3		46		2.5		3	3	1	1	3	1	1	2	16
Fort Abbas	0000	475	(b) 998.6		(b) 1016.1	45.7	44.5	43.2	9.4		90		1.3		0	8	0	5	0	18	0	0	0
	0300		1000.7		1018.1	51.7	49.0	45.6	10.6		81		1.4		0	7	0	5	0	19	0	0	0
	1200		(a) 997.9		(a) 1014.8	66.9	60.5	55.6	15.1		67		0.8		0	20	0	0	0	11	0	0	0
PESHAWAR																							
Chakdara	0000	2197	938.7		1018.0	41.1	39.0	36.3	7.3		83		2.4		2	1	0	3	0	2	2	2	19
	0300		939.5		1019.1	39.8	38.1	35.6	7.1		85		2.8		6	6	2	1	1	0	0	0	15
	1200		937.6		1014.1	56.3	48.3	39.3	8.2		53		3.4		2	3	1	2	0	6	3	2	12
Peshawar	0000	1177	975.5		1018.7	43.1	40.9	37.6	7.7		81		2.6		0	0	2	2	7	5	1	0	14
	0300		976.7	—0.9	1019.9	42.6	40.3	36.6	7.4	+1.0	81	+10	3.3	—1.3	0	0	0	3	12	6	0	1	9
	1200		975.0		1016.8	59.4	50.7	40.6	8.7		50		3.3		0	2	0	5	3	3	1	1	16
Risalpur	0000	1009	*		*	39.8	38.3	35.9	7.2		86		2.6		0	2	0	0	0	1	9	1	18
	0300		982.6		1020.0	40.1	38.9	37.0	7.5		89		3.1		0	1	0	1	0	1	7	1	20
	1200		980.8		1016.7	58.7	51.2	42.5	9.5		57		3.1		0	3	0	0	0	2	15	2	9
Haripur	0300	1757	954.8		1018.9	42.5	40.4	37.5	7.7		83		3.1		0	13	11	3	1	2	0	1	0
	1200		953.2		1015.3	57.4	51.2	45.5	10.3		64		3.8		1	9	0	3	2	10	1	5	0
Campbellpur	0300	1175	977.2		1020.5	42.4	40.9	38.7	8.3		87		2.7		1	7	0	0	0	0	0	0	23
	1200		975.0		1016.9	58.8	51.7	43.9	9.9		59		3.9		15	9	0	0	0	0	0	0	12
D. I. KHAN																							
Kohat	0000	1667	958.5		1018.8	46.9	43.0	37.8	7.9		71		2.2		2	2	0	0	0	0	1	20	6
	0300		959.9		1020.4	45.5	41.7	36.4	7.5		72		2.8		0	4	0	1	0	0	0	19	7
	1200		958.3		1017.1	59.1	51.1	43.0	9.5		56		3.3		1	3	4	4	1	2	2	1	13
Bannu	0000	1263	*		*	44.4	42.7	40.2	8.6		86		*		0	0	0	0	0	0	3	0	28
	0300		*		*	45.1	42.1	38.0	7.7	+1.6	76	+16	*		2	1	1	3	0	3	9	6	6
	1200		*		*	60.7	52.4	44.4	9.7		54		*		0	1	2	21	1	1	1	0	4
D. I. Khan	0000	570	*		*	44.8	43.6	41.6	9.1		92		0.9		0	0	0	0	0	0	0	0	29
	0300		996.4	—1.8	1017.5	45.6	43.5	40.8	8.7	+1.7	84	+13	2.8	+0.2	0	0	0	0	0	0	0	1	26
	1200		(e) 995.0		(e) 1015.3	(a) 63.3	(a) 55.3	(a) 82.2	(a) 11.3		(a) 57		1.8		0	1	0	0	0	0	0	2	28

(R) Register not received. (a) Mean for 30 days. (e) Mean for 26 days. (*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY, 1959.

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	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Sibi	0000	441	*																				
	0300		1002.5	+0.2	1018.8	48.1	44.3	40.4	8.2	+2.7	72	+22	1.6	—1.0	0	0	0	0	0	0	0	0	31
	1200		1000.2		1015.9	69.3	55.9	40.8	9.3		37		2.1		0	0	0	0	0	0	0	1	30
KALAT (NORTH)																							
Nokkundi	0000	2229	939.6		1019.8	44.1	38.8	31.7	5.9		60		0.3		9	8	2	0	1	0	2	9	0
	0300		941.2		1021.9	42.9	37.9	31.0	5.5	0.0	61	+8	0.8	—1.8	9	11	4	0	0	1	1	5	0
	1200		938.5		1015.8	61.9	48.3	30.6	6.1		33		1.1		4	0	6	12	2	2	2	3	0
KALAT (SOUTH)																							
Turbat	0000	510																					
	0300		1000.5		1019.2	54.9	49.8	43.5	10.0		67		2.1		1	5	21	0	1	1	2	0	0
	1200		997.5		1015.7	74.6	60.3	47.3	11.5		39		2.3		1	6	10	0	1	3	9	1	0
Jiwani	0000	185	1010.0		1016.8	59.7	54.7	49.2	12.3		71		2.1		12	4	0	2	1	3	1	5	3
	0300		1011.2		1018.0	59.3	53.7	47.3	11.6	—	67		2.5		13	5	0	2	0	2	0	2	7
	1200		1009.3		1015.8	70.6	59.0	45.0	11.9		47		3.6		4	1	3	3	7	2	7	3	1
Pasni	0000	28	1014.7		1015.7	59.7	55.4	51.0	13.1		74		2.1		5	3	2	0	0	1	6	14	0
	0300		1016.3	—0.9	1017.3	59.1	54.8	51.0	12.7	—0.7	75	—2	3.3	+1.0	7	2	2	1	0	1	3	15	0
	1200		1014.1		1015.1	72.3	63.3	57.0	15.8		58		3.3		1	0	3	6	7	7	1	6	0
Ormara	0000	15	1014.9		1015.4	59.4	55.2	50.1	13.0		75		1.9		0	2	3	3	3	0	2	0	18
	0300		1016.5		1017.0	59.4	55.0	50.2	12.8	—0.3	74	—2	2.1	—0.5	1	2	1	3	1	0	2	1	20
	1200		1014.1		1014.6	72.6	61.5	52.7	13.7		51		2.5		0	0	8	1	2	5	10	2	3
Lasbela	0000	292	*																				
	0300		1008.4	0.6	1018.9	58.4	51.7	42.7	10.1	+0.4	60	—6	0.0	—2.2	6	3	0	1	0	0	1	1	19
	1200		1004.3		1014.4	76.5	63.3	52.7	14.0		45		0.6		0	1	2	6	8	7	1	0	6
FEDERAL CAPITAL AREA																							
Karachi (Manora)	0000	13	1014.7		1015.2	60.9	55.6	50.3	12.7		70		1.0		5	6	5	1	1	0	1	1	11
	0300		1016.6	—0.8	1017.1	61.4	56.0	50.8	12.9	+2.3	69	+7	1.8	—0.5	2	4	12	0	1	1	0	1	10
	1200		1014.3		1014.8	72.7	61.8	55.9	13.9		51		2.4		3	0	8	1	3	0	4	12	0
Karachi (Mauripur)	0000	52	1013.5		1015.3	57.9	52.5	46.6	11.1		68		1.5		6	11	5	0	0	0	1	2	6
	0300		1014.9		1016.8	56.5	51.4	45.9	10.7		69		2.1		6	13	8	0	0	0	0	1	3
	1200		1012.7		1014.5	73.1	60.6	48.5	12.5		45		2.1		1	1	7	1	1	13	3	3	1
Karachi (City)	0300	20	1015.9		1016.8	58.4	52.9	47.0	11.2		67		1.7		2	15	6	0	0	0	1	2	5
	1200		1013.3		1014.2	73.3	60.8	49.7	12.6		45		1.3		4	6	0	0	0	12	7	0	2
Karachi (P.A.F.)	0000	38†	1014.5		1015.9	57.8	53.9	50.3	12.5		76		1.1		2	7	1	0	0	2	1	2	16
	0300		1016.1		1017.5	57.1	52.7	48.2	11.6		73		2.0		5	16	0	0	0	1	0	1	8
	1200		1013.4		1014.8	73.7	63.4	54.1	15.3		54		1.6		8	4	0	0	1	14	2	1	1
Karachi (Airport)	0000	73	1013.0		1015.8	56.6	50.7	43.1	10.0		64		1.3		4	10	0	0	0	0	1	1	15
	0300		1014.7		1017.5	54.5	50.1	44.6	10.4		72		1.7		1	9	1	0	0	1	0	0	19
	1200		1012.1		1014.7	73.6	58.7	43.0	10.2		36		1.0		0	9	1	1	3	11	3	3	0
HYDERABAD																							
Badin	0000	31	1013.8		1014.9	49.5	47.0	44.1	9.9		81		0.0		23	0	0	0	0	0	0	0	8
	0300		1015.9	—0.7	1017.1	51.5	48.4	44.9	10.2	+2.3	78	+20	0.0	—1.8	22	0	0	0	0	0	0	0	9
	1200		1012.7		1013.7	77.5	64.2	53.7	14.5		45		0.0		21	0	0	0	0	1	0	0	9
Nagarparkar	0000	178 (Prov.)	1007.7		1013.8	*	*						0.0		6	0	0	0	0	0	0	0	25
	0300		1008.9		1015.0	65.1	53.2	40.2	8.5		40		0.4		12	0	0	0	0	6	0	0	12
	1200		1005.7		1011.7	77.7	62.3	50.2	12.2		38		0.0		13	0	0	3	0	10	0	1	4

(*) Data rejected. (†) New height from 1-1-59.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY, 1959.

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	1012.8		1014.9	50.6	45.2	38.4	7.8		63		0.3		7	7	1	1	2	1	0	0	12
	0300		1015.4		1017.4	48.6	44.9	39.7	8.5		73		1.7		8	7	1	1	2	2	1	0	9
	1200		1011.5		1013.5	75.7	60.0	45.4	10.6		35		0.8		8	3	0	1	0	2	5	9	3
Chhor	0000	19	1014.7		1015.4	46.5	42.7	37.3	7.7		71		1.3		2	7	2	0	0	2	1	1	16
	0300		1016.8		1017.5	48.8	44.0	37.3	7.7		65		2.1		7	9	0	0	0	3	3	3	6
	1200		1013.3		1014.0	75.8	56.9	34.9	7.4		24		1.6		11	4	0	0	0	5	6	1	4
Hyderabad	0000	98	1012.3		1016.0	53.8	49.4	44.3	10.1		71		0.5		14	0	0	0	0	1	1	0	15
	0300		1014.1	—0.6	1017.7	53.1	48.5	43.0	9.6	+1.2	69	+9	1.5	—0.3	17	2	1	0	1	2	0	0	8
	1200		1011.2		1014.7	73.6	57.7	40.6	9.2		32		1.2		15	4	1	0	3	2	2	1	3
KHAIRPUR																							
Padidan	0000	153	1010.7		1016.4	46.3	43.8	40.2	8.4		80		1.5		10	1	0	0	0	0	0	10	10
	0300		1012.6		1018.4	45.9	43.2	39.5	8.3		79		1.5		5	2	1	0	0	0	1	7	15
	1200		1009.8		1015.2	70.2	55.9	40.3	8.9		65		2.1		9	7	0	0	4	1	3	5	3
Nawabshah	0000	124	1012.4		1017.1	47.3	44.4	40.0	8.6		77		1.0		3	0	0	0	2	1	1	5	19
	0300		1014.3		1018.9	47.3	44.1	39.9	8.4		75		1.7		4	0	0	1	1	0	0	6	19
	1200		1011.4		1015.8	71.5	56.5	41.6	8.9		33		2.1		9	3	0	2	4	1	0	5	7
Sukkur	0300	221	1009.8	—0.9	1018.0	50.2	47.3	43.8	9.8	+2.1	79	+18	1.9	+0.3	1	1	1	7	1	2	0	2	16
	1200		1007.2		1015.0	68.8	56.7	44.9	10.3		43		2.9		4	6	2	3	2	4	4	2	4
Kashmore*	0000	255																					
	0300																						
	1200																						
Jacobabad	0000	183	1009.8		1016.6	50.1	45.3	39.1	8.2		66		1.3		7	1	9	0	2	0	2	10	10
	0300		1011.4	—0.5	1018.2	48.9	44.4	38.5	8.0	—0.2	67	—3	1.9	—0.2	3	3	3	1	0	3	1	6	11
	1200		1008.8		1015.4	69.7	55.5	39.9	8.7		35		2.3		4	2	0	4	4	0	3	14	0
JUNAGADH																							
Veraval (x)	0000	26																					
	0300		(a) 1015.1		(a) 1016.1	(c) 62.4	(c) 54.9	(e) 47.3	(c) 11.3		(e) 59		(g) 0.7		14	14	0	1	0	0	0	0	2
	1200		(g) 1011.6		(g) 1012.6	(h) 76.9	(h) 66.4	(h) 58.7	(h) 17.4		(h) 55		(g) 1.1		1	3	(g) 0	0	2	3	7	8	0
AFGHANISTAN																							
Jalalabad (x)	0300	1950																					
	1200																						
ARABIA																							
Muscat	0300	20	1016.8		1017.5	66.4	60.4	55.8	15.2		69		2.8	+0.3	0	0	1	0	0	1	4	2	23
	1200		1015.0		1015.7	71.2	63.9	58.8	17.0		65		3.1		7	0	11	0	0	0	3	5	5
HILL STATIONS																							
KASHMIR																							
Srinagar (x)	0000	5205																					
	0300																						
	1200																						

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

(a) Mean for 30 days.
(h) Mean for 23 days.

(e) Mean for 26 days.
(g) Mean for 24 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY, 1959.

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 980/700 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	8709																					
	1200																						
Gurez (x)	0300	...																					
	1200																						
Sonemarg (x)	0300																						
	1200																						
Dras (x)	0300	10059																					
	1200																						
Kargil (x)	0300	...																					
	1200																						
Leh (x)	0300	...																					
	1200																						
Skardu (x)	0000	7250																					
	0300																						
	1200																						
Misgar	0000	10190	*		*	12.2	*	*	*		*		3.1		0	0	0	0	0	0	0	0	31
	0300		697.4		3074	14.7	*	*	*		*		3.2		0	0	1	0	0	0	0	0	30
	1200		695.8		3056	25.1	*	*	*		*		3.8		0	0	5	5	0	0	8	0	13
Aliabad (x)	0300	6850																					
	1200																						
Gilgit (Surface) (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113																					
	0300		783.6 (a)	—0.8	1506 (a)	36.1	31.1	21.9	4.1	—0.6	58	—.2	3.6	—0.2	0	8	5	12	0	0	0	2	4
	1200		783.1		1494	40.6	35.5	27.4	5.2		62		4.9		0	4	2	13	0	0	0	3	9
PESHAWAR																							
Drosh	0000	4806	857.9		1538	33.7	31.4	27.3	5.1		77		3.0		0	4	4	1	0	0	0	0	22
	0300		858.7	+0.8	1546	32.4	30.2	26.3	4.8	—0.5	77	+1	3.2	—0.6	0	2	7	0	0	1	0	0	21
	1200		856.3		1524	41.0	35.1	24.1	4.6		52		3.7		1	3	13	5	1	1	0	0	7
Cherat (x)	0000	4272																					
	0300		*		*	43.1	36.2	22.9	4.5	—0.3	47	—6	2.4	—0.9	17	2	0	5	7	0	0	0	0
	1200		*		*	46.5	39.5	27.0	5.5		51		2.8		16	5	0	8	2	0	0	0	0
Kakul	0000	4214	872.5		1495	40.5	36.1	29.0	5.5		64		3.3		7	5	6	2	3	0	0	8	0
	0300		873.8		1507	40.7	36.3	28.8	5.6		64		3.6		8	6	3	4	2	0	0	8	0
	1200		872.6		1501	49.6	43.0	33.9	6.8		56		3.9		2	1	1	5	8	2	4	8	0
Balakot	0000	3226	x		x	37.9	36.7	35.5	6.9		89		3.4		3	1	1	1	1	1	0	3	20
	0300		x		x	38.7	37.2	34.9	6.9		87		4.0		4	0	0	0	1	0	0	4	22
	1200		x		x	51.0	47.4	43.4	9.7		77		5.2		3	0	0	0	1	1	0	2	24
Landikotal	0000	3503	896.1		1494	38.8	35.4	29.0	5.7		71		2.7		4	0	0	0	0	2	0	5	20
	0300		897.2		1502	38.9	35.5	29.5	5.7		71		3.0		4	0	0	0	0	1	0	3	23
	1200		895.4		1497	49.6	43.4	34.6	7.1		59		3.1		2	1	0	0	0	7	3	12	6

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY, 1959.

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										
D. I. KHAN																							
Parachinar	0000	5673	827.0		1508.0	31.6	29.0	24.3	4.5		76		1.6		16	0	0	1	0	0	2	5	7
	0300		828.1	+0.2	1518.0	32.6	29.0	22.6	4.2	—0.7	67	—2	2.9	—0.4	14	0	0	0	0	0	1	7	9
	1200		826.5		1496.0	47.8	37.7	21.4	4.1		38		3.0		1	0	3	13	5	2	2	4	1
Miranshah	0000	3026	911.8		1483.0	37.7	33.3	25.6	4.7		60		1.5						*				
	0300		913.2	...	1501.0	40.8	35.7	27.5	5.1	+0.3	59	+2	2.0	—0.6					*				
	1200		911.4		1501.0	56.5	45.2	29.4	5.8		37		2.0						*				
Wana	0300	4503	863.3	...	1496.0	31.6	(e) 30.5	(e) 28.3	5.3	+0.4	89	+9	2.5	+0.2	0	0	0	0	1	0	0	0	30
	1200		862.2		1490.0	50.2	40.2	24.0	4.5		36		2.3		0	0	6	4	4	4	1	0	12
QUETTA																							
Fort Sandeman	0300	4614	861.8	+0.1	1515.9	34.5	31.5	26.3	4.8	—0.2	72	—5	3.3	+0.5	2	0	3	4	2	0	0	0	20
	1200		860.5		1507.5	52.3	41.3	22.9	4.5		33		2.7		8	4	2	1	1	1	2	4	8
Hindubagh	0000	5909	820.4		1512.2	31.6	29.2	26.3	4.4		78		2.0		0	0	0	0	0	0	11	2	18
	0300		821.2		1521.7	31.0	28.8	25.5	4.6		79		2.1		1	0	0	0	0	0	14	3	13
	1200		820.0		1503.2	47.9	39.5	29.2	5.3		42		2.2		2	0	6	0	1	1	17	0	4
Loralai	0000	4699	856.8		1495.1	34.1	31.4	25.8	4.9		73		1.9		0	0	0	0	0	6	17	2	6
	0300		857.8		1503.8	33.1	30.4	26.0	4.7		73		2.3		0	0	0	1	0	9	6	9	6
	1200		855.8		1487.0	53.0	42.1	25.9	4.8		35		2.5		1	2	7	14	2	0	0	2	3
Harnai	0300												1.7		0	0	0	0	0	0	31	0	0
	1200												2.3		0	0	13	0	15	0	3	0	0
Samungli	0000	5213	841.9		1510.1	28.6	28.2	27.3	5.1		96		2.7		0	0	2	6	1	2	0	0	20
	0300		842.5		1516.0	28.9	28.2	27.5	5.0		93		3.4		0	0	3	9	1	1	1	1	15
	1200		840.9		1497.2	47.9	45.8	43.8	9.8		85		3.4		2	1	0	4	0	3	8	11	2

(*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY, 1959.

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	0300	5490	834.2	—0.6	1517.4	35.5	31.9	26.5	4.8	—0.1	68	—10	3.4	—0.1	1	2	0	3	6	2	0	0	17
	1200																						
Chaman	0000	4311	872.1		1520.0	38.8	35.0	28.8	5.5		68		2.3		0	20	0	6	0	2	0	1	2
	0300		873.0	+1.4	1528.7	38.3	34.6	28.9	5.3	—0.8	67	+1	2.4	—1.0	0	7	6	9	1	2	0	0	6
	1200		870.4		1509.1	50.3	42.7	33.0	6.3		50		3.1		0	0	1	5	0	7	4	11	3
KALAT (NORTH)																							
Kalat	0000	6616	799.8		1529.4	27.5	26.5	25.1	4.4		89		2.1		2	0	0	0	17	1	0	1	10
	0300		800.8	+0.4	1537.4	29.1	27.8	25.5	4.6	+0.2	87	+17	3.1	+0.1	1	0	0	2	12	3	0	0	13
	1200		799.6		1511.7	44.7	37.6	27.5	5.1		51		2.7		9	0	0	0	2	3	1	9	7
Nushki	0000	3416	904.7		1548.3	45.1	39.4	30.9	6.0		58		0.8		6	6	11	2	0	1	1	4	0
	0300		905.3		1554.6	45.2	39.1	30.0	5.7		55		0.8		8	18	2	1	1	1	0	0	0
	1200		903.9		1552.7	56.4	44.5	27.5	5.2		33		1.7		14	1	3	0	4	3	0	6	0
Dalbandin	0000	2785	920.8		1493.7	40.4	37.9	34.4	6.7		79		2.5		1	7	3	1	0	2	0	0	17
	0300		922.0	+0.4	1501.4	38.3	36.3	33.6	6.5	—0.4	82	+9	2.7	—0.3	1	8	0	0	0	2	0	2	18
	1200		920.0		1509.4	57.9	46.8	32.9	6.5		39		3.1		0	8	10	7	2	1	1	0	2
KALAT (SOUTH)																							
Panjgur	0000	3177	907.2		1495.1	41.5	37.4	30.2	6.0		67		3.0		7	6	0	0	7	3	2	4	2
	0300		908.4	+0.5	1507.5	42.7	37.0	24.6	5.2	—1.7	56	—18	2.3	—0.4	2	23	1	0	1	1	0	0	3
	1200		906.2		1505.1	(ii) 60.6	(a) 47.3	(a) 27.3	5.8		33		2.3		10	0	0	0	1	13	3	2	2
AFGHANISTAN																							
Kabul (R)	0300	5955		—																			
	1200																						
Kandahar	0300	3462	902.1	—	1531.0	36.0	34.0	30.9	5.8	—	81	—	2.5	—	0	0	3	2	1	2	0	0	23
	1200		900.7		1532.0	51.0	44.9	36.8	7.7		60		1.5		0	2	1	1	4	2	1	0	20

(a) Mean for 30 days. (ii) Data not available. (R) Register not received.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JANUARY, 1959.

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 Figures 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
EAST PAKISTAN																					
CHITTAGONG DIVISION																					
Rangamati	80.0		87	30	50.1	—	45	4,10	10.14	—	10.14	24	1	—	x	—	3		27		
Cox's Bazar (P. T.)	79.2	−0.4	84	14	58.4	+2.2	53	3,4	1.48	+1.34	1.03	23	3	+2.7	x		6				
Chittagong (Patenga)	78.2		84	30	57.8		53	2,3,4	0.93		0.58	24	3		x		2		3		
Chittagong	80.4	+1.6	85	14,30	56.6	+1.6	50	3	0.60	+0.36	0.32	24	3	+2.6	3.2	−0.5	1				
Maijdee Court	77.5	−0.6	85	30	56.5	−1.0	48	2,3	3.98	+3.73	3.75	23	2	+1.5	x		1		1		
Comilla	78.6	+0.1	84	13	55.1	+3.0	48	2,3	1.45	+1.13	1.35	23	2	+1.2	x		2		16		
Brahmanbaria	78.0	−0.4	86	30	55.5	+4.0	49	2	1.88	+1.66	1.24	23	3	+2.3	1.5		1		2		
Srimangal	77.4	−2.1	85	30	47.9	+0.4	43	2,11,16	2.36	+1.94	1.67	23	3	+2.0	x		3		9		
Sylhet	75.8		83	30	54.7		50	2	0.85		0.45	23	3		x		2		3		
DACCA DIVISION																					
Mymensingh	76.2	+0.1	82	30	54.2	+0.6	49	2,11	0.69	+0.37	0.47	23	3	+2.1	0.5	−0.2					
Narayanganj	78.2	+0.3	86	30	57.5	+2.0	50	2	1.15	+0.83	0.57	22	3	+2.2	1.4	+0.3	1				
Dacca (Tejgaon)	77.1		84	30	53.7		44	2	0.88		0.40	23	3		2.0		2		3		
Faridpur	75.1	−0.8	83	29	54.2	+1.7	46	5	0.93	+0.50	0.68	23	2	+1.1	1.6	+0.1	3		12		
Barisal	78.2	+0.4	86	30	58.8	+3.4	51	5 days	1.24	+0.82	0.52	23	4	+3.5	x		2		9		
RAJSHAHI DIVISION																					
Khulna	78.9	+0.4	86	10	58.5	+3.3	50	2,3,4	1.42	+0.98	0.54	22	3	+2.2	1.8	+0.1			8		
Satkhira	80.0	−0.2	85	30	56.3	+3.5	46	4	1.87	+1.49	1.17	22	2	+1.1	1.2	+0.2					
Jessore	79.6	+1.0	87	30	52.9	+3.7	41	4	0.75	+0.38	0.62	22	1	+0.1	2.3	+1.3			5		
Pabna	80.3	+1.2	83	30	54.0	+2.1	46	1,2	0.80	+0.40	0.35	22	3	+2.1	x		2		5		
Serajganj	77.1		83	30	54.2		47	1,2	0.75	+0.37	0.38	22	3	+2.2	1.4		1		2		
Rajshahi									0.73	+0.28	0.45	29	2	+1.0							
Bogra (P.B.O.)	75.0	−0.8	79	19,22	52.9	+0.8	47	1,2	2.49	+2.06	1.86	23	4	+3.0	1.9	+1.0	1				
Dinajpur	75.6	+0.2	80	17,19,21	51.7	+2.1	44	1	1.75	+1.39	0.95	30	3	+2.1	0.3	−0.8	1		1		
Rangpur	73.7		77	8 days	52.7		45	2	2.65	+2.31	1.52	23	4	+3.2	1.4				14		

(x) Data not available.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JANUARY, 1959.

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 (Jail Road)	65.2	−2.8	72	26	43.4	+3.3	35	12,13,14	2.15	+1.11	1.20	29	3	+1.0	1.0	−0.1	6	1	4	0	0
,, Cantt.	64.7	—	72	26	42.8	—	35	11,12,13	1.40	—	0.75	29	2	—	2.6	—	6	0	9	0	0
,, (Walton)	65.7	—	73	25	42.9	—	35	12	1.68	—	0.88	29	3	—	2.9	—	4	0	6	0	0
Sialkot	64.0	−1.6	71	23,25,28	43.1	+0.9	37	2	2.13	+0.17	0.98	29	5	+2.1	1.4	+0.5	0	0	4	0	0
RAWALPINDI																					
Jhelum	64.9	—	72	25	42.7	—	35	12	3.33	—	1.49	5	6	—	1.7	—	3	0	2	0	0
Chaklala	61.1	—	67	2,17,18	38.2	—	31	10	3.82	—	1.36	20	6	—	3.2	—	4	1	10	0	0
Rawalpindi	60.7	−1.6	67	21,24	38.8	+0.9	33	4 days	3.91	+1.42	1.13	20	8	+4.2	2.4	+0.8	4	0	0	0	0
Khushab	68.4	+0.7	72	22,31	37.9	−2.8	33	11,12	1.74	+1.05	0.72	5	4	+2.5	1.9	−0.3	0	0	0	0	0
Sargodha (x)																					
MULTAN																					
Lyallpur	65.7	−1.4	72	4 days	41.2	+1.3	35	7 days	1.30	+0.90	1.05	5	2	+1.0	1.1	−0.2	3	0	3	0	0
Montgomery	66.1	−2.0	73	24	40.9	−0.3	35	4 days	0.29	−0.17	0.18	5	2	+0.7	(a) 1.0	−0.9	0	0	0	0	0
Multan (P.B.O.)	67.0	—	73	24	41.3	—	33	11	1.11	—	0.46	5	3	—	1.7	—	0	0	11	0	0
,, (Surface)	(a) 67.4	−0.6	74	24	45.2	+3.2	38	11	0.94	+0.57	0.45	5	3	+1.8	1.6	+0.6	0	0	8	0	0
BAHAWALPUR																					
Leiah (x)																					
Khanpur (Surface) (R)																					
,, (P.B.O.)	69.5	—	78	24,25	40.9	—	34	11	0.41	—	0.30	4	2	—	3.0	—	0	0	0	0	0
Bahawalpur	68.8	−1.1	81	25	43.5	+3.2	35	11,12	0.99	+0.83	0.61	19	2	+1.4	0.9	−0.8	0	0	0	0	0
Fort Abbas	68.3	—	84	25	*	—			0.00	—	0.00		0	—	(a) 2.7	—	0	0	0	0	0
PESHAWAR																					
Chakdara	58.5	—	64	4 days	36.2	—	30	12	5.98	—	1.55	5	7	—	3.1	—	0	0	0	0	0
Peshawar	62.6	−0.4	69	23	39.8	−0.6	33	10	3.65	+2.21	0.90	25	8	+5.1	1.8	+0.6	0	0	1	1	0
Risalpur	62.7	—	71	14,18,23	35.8	—	29	13,14	7.14	—	2.80	20	7	—	2.6	—	2	0	6	0	0
Haripur	61.4	—	69	17	39.5	—	34	11	5.24	—	1.45	20	5	—	5.5	—	0	0	0	0	0
Campbellpur	*				33.8	—	31		6.26	—	1.83	20	7	—	1.8	—	0	0	0	0	0
D. I. KHAN																					
Kohat	63.0	—	70	18	43.0	—	37	11,12,13	2.75	—	0.84	25	6	—	4.0	—	2	0	0	0	0
Bannu	63.2	−2.3	68	4 days	41.7	+1.8	36	12	1.57	+1.05	0.60	25	4	+2.8	0.9	—	0	0	0	0	0
D. I. Khan	64.7	−3.3	69	22	41.9	+1.6	35	12,13	0.82	+0.37	0.50	5	3	+1.8	0.6	−0.4	0	0	0	0	0

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JANUARY, 1959.

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	71.9	+1.8	77	30,31	*				1.15	+0.71	0.45	4,19	3	+1.9	1.0	—1.1	0	0	0	0	0
KALAT (NORTH)																					
Nokkundi	64.5	+1.1	73	24	38.4	+0.1	27	4,5	0.83	—0.06	0.43	19	3	+1.0	x		0	0	0	0	0
KALAT (SOUTH)																					
Turbat	*				*				0.27		0.17	17	2		*		0	0	0	0	0
Jiwani	73.2		78	10	56.8		45	4	4.16		3.76	18	2		5.5		3	0	0	0	1
Pasni	75.0	+0.5	80	9	55.0	+0.3	46	5	1.61	—0.34	1.21	17	3	+0.7	x		0	0	0	1	0
Ormara	74.9	+1.1	79	8	55.7	—0.8	44	5	2.35	+0.80	1.55	12	4	+2.2	4.3	+0.3	0	0	0	0	0
Lasbela	79.2	+1.1	84	13,16	49.1	+3.1	41	6,7	0.17	—0.09	0.09	23	0	—1.0	1.5	—0.2	0	0	0	0	0
FEDERAL CAPITAL AREA																					
Karachi (Manora)	75.3	—0.2	80	17	57.2	—0.2	50	6	0.00	—0.46	0.00		0	—1.0	x		0	0	1	0	0
Karachi (Mauripur)	75.7		79	15,17,24	54.0		44	31	0.38		0.20	12	2		x		2	0	0	0	0
Karachi (City)	78.0		82	15,16,17	52.0		43	5	0.00		0.00		0		3.2		0	0	0	0	0
Karachi (P.A.F.)	76.6		82	24	54.1		46	5	0.10		0.10	12	1		(j) 5.7		0	0	0	0	0
Karachi (Airport)	76.1		80	24	52.8		43	5	0.15		0.15	12	1		3.0		0	0	0	0	0
HYDERABAD																					
Badin	80.0	+3.7	87	24	45.2	—2.0	40	14	0.00	—0.15	0.00		0	—0.4	5.4		0	0	0	0	0
Nagarparkar	80.1		86	2	*				0.00		0.00		0		1.6		0	0	0	0	0
Umarkot	78.2		87	24,25	45.2		41	4 days	0.00		0.00		0		3.2		0	0	0	0	0
Chhor	78.2		85	24,25	43.9		35	5	0.06		0.04	4	0		2.5		0	0	0	0	0
Hyderabad	76.5	+0.7	84	24	50.9	+0.3	43	5	0.47	+0.30	0.47	4	1	+0.5	3.1	—0.5	0	0	0	0	0
KHAIRPUR																					
Padidan	74.2		79	24,25	42.3		34	5	0.20		0.20	4	1		3.4		0	0	0	0	0
Nawabshah	73.8		83	25	44.7		34	5	0.14		0.14	4	1		2.9		0	0	0	0	0
Sukkur	72.2	—0.1	80	23,24 25	46.1	+1.1	41	7	0.28	+0.10	0.26	4	1	+0.6	2.1	—0.3	0	0	2	0	0
Kashmore	*				*				0.00		0.00		0		*		0	0	0	0	0
Jacobabad	71.6	+0.2	72	23,24	48.8	+3.9	41	10	0.03	—0.20	0.03	18	0	—0.7	3.3	+0.7	0	0	0	0	0
JUNAGADH																					
Veraval (x)	(g) 82.5		90	17	(a) 57.1		50	8	0.05		0.05	17	0		x		0	0	0	0	0
AFGHANISTAN																					
Jalalabad (x)																					
ARABIA																					
Muscat	74.3	—1.0	80	14	64.9	—1.7	59	5	0.43	—0.55	0.29	17	1	—0.6	(k) 5.3	+1.8	0	0	0	0	0
HILL STATIONS																					
KASHMIR																					
Srinagar (x)																					
Gulmarg (x)																					
Gurez (x)																					
Sonamarg (x)																					
Dras (x)																					
Kargil (x)																					
Leh (x)																					
Skardu (x)																					

(x) Data not available. (*) Data rejected. (a) Mean for 30 days. (j) Mean for 21 days. (k) Mean of 20 days. (g) Mean for 24 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JANUARY, 1959.

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	30.8	—	39	21,22	9.6	—	—2	11	0.03	—	0.03	30		—	2.5	—	0	0	0	0	0
Aliabad x)																					
Gilgit (x)																					
RAWALPINDI																					
Murree	44.0	—1.2	53	18	32.5	+1.8	25	29,30	3.72	—0.07	0.88	20	7	—0.9	9.2	+4.2	0	0	5	0	0
PESHAWAR																					
Drosh	45.0	—0.7	62	22	30.6	—0.8	24	9,10	5.95	+4.58	2.29	25	6	+2.6	4.5	+2.0	0	0	0	0	0
Cherat	50.2	+1.0	59	22,23	39.8	+0.9	33	30	8.20	+5.87	1.95	5	8	+4.5	10.8	+1.8	1	0	1	0	0
Kakul	55.1	—	63	19	38.3	—	33	10	3.25	—	1.22	5	5	—		—	0	1	4	0	0
Balakot	56.3	—	65	18	36.2	—	30	14	3.23	—	0.96	26	6	—	2.2	—	0	0	0	0	0
Landikotal	53.9	—	58	17,18	34.9	—	28	9	2.68	—	0.75	20	5	—	1.3	—	0	0	2	0	0
D. I. KHAN																					
Parachinar	52.5	+2.7	59	17,18	*	*	*	*	2.86	+0.83	1.58	25	5	+0.4	1.7	0.0	0	0	0	0	0
Miranshah	59.3	+2.6	64	22	35.3	—0.4	29	9,10	2.28	+1.48	0.72	25	4	+2.1	2.6	—1.0	0	0	0	0	0
Wana	51.6	—1.7	59	22	28.4	+1.6	23	4 days	1.78	+0.39	0.77	26	4	+1.0	0.0	—	0	0	0	0	0
QUETTA																					
Fortsandeman	54.6	—0.1	66	24	32.8	+2.2	26	11	1.27	+0.55	0.51	18	3	+0.9	1.6	0.0	0	0	0	0	0
Hindubagh	51.5		62	22	27.4		18	10	1.20		0.47	19	3		3.3		0	0	0	0	0
Loralai	55.0		66	22	28.3		22	5,6	4.51	+3.75	4.00	4	3	+1.1	3.6		0	0	0	0	0
Harnai									1.37	+0.48	0.45	4	5	+3.0	x		0	0	0	0	0
Samungli	50.7		67	23	26.4		17	11	0.26		0.10	24,25	2		3.6		0	0	2	0	0
Quetta	49.8		57	2,17,22	27.1		16	5	0.80		0.41	24	3		3.7	+1.5	0	0	0	0	0
Chaman	53.4	+1.0	68	24	32.8	—1.7	23	4,5	4.02	+2.38	3.02	4	5	+0.6	x		0	1	0	0	0
KALAT (NORTH)																					
Kalat	49.8	+0.3	63	23	24.7	—1.2	15	4,5,9	0.79	—0.52	0.35	19	4	+0.5	2.8	—0.9	0	0	0	0	0
Nushki	60.8		75	24	43.5		30	5	0.28		0.17	19	1		x		0	0	0	0	0
Dalbandin	59.9	—1.6	70	15	36.0	+0.7	27	5,6,10	0.72	—0.16	0.20	18,24	4	+1.9	2.0	—0.8	0	0	0	0	0
KALAT (SOUTH)																					
Panjgur	61.5	—1.4	74	23	37.8	—0.8	29	5	0.19	—0.64	0.19	19	1	—0.9	3.0	—1.4	0	0	0	0	0
AFGHANISTAN																					
Kabul (R)																					
Kandahar	52.9	—	64	24	32.2	—	22	4	1.94	—	0.63	24	5	—	1.3	—	0	0	0	0	0

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

REGD. No. S - 1452

PAKISTAN WEATHER REVIEW, 1959

MONTHLY WEATHER REPORT

February

(PUBLISHED BY THE AUTHORITY OF GOVERNMENT OF PAKISTAN)

Chief Features:

1. Torrential rains and hailstorms preceded by gale winds at a number of places in the northwestern parts of West Pakistan between the 3rd and the 5th with heavy snowfall over the hilly region as a result of the passage of three active western disturbances in close succession across the region.

2. Local rain or thundershowers practically throughout East Pakistan between the 13th and the 17th with marked rainfall activity in Chittagong division under the influence of three westerly low pressure waves.

West Pakistan

Three active western disturbances moved in close succession across the region during the first five days of the month and caused fairly widespread rain or thundershowers in Lahore, Rawalpindi and Peshawar Divisions and scattered rain in North Kalat and Multan divisions between the 3rd and the 5th. Torrential rainfall or hailstorms preceded by gale winds occurred at a number of places in the northwestern districts with heavy snowfall over the hills of the affected regions. According to newspaper reports Dhimber Nullah, a hill torrent, overflew its banks inundating Lala Musa town and badly damaging the wheat crop and a number of houses. Thereafter as a result of the passsge of three western disturbances across the northern parts of the region scattered to local rain fell in most of the northern divisions between the 10th and the 16th with a few snowfalls over some of the hills.

An active western disturbance moved northeastwards across Kalat division towards the middle of the third week and caused wet weather practically over the whole of West Pakistan outside Multan division and the Federal Capital Area between the 18th and the 19th.

Towards the earlier part of the fourth week a western disturbance moved northeastwards across Quetta division. In its association light rain fell in north Kalat, Peshawar and D. I. Khan divisions on the 22nd and local rain practically over the whole region outside Multan, Bahawalpur, Hyderabad and Khairpur divisions and the Federal Capital Area on the 23rd. During the rest of the month two western disturbances influenced the weather over the region. The first one moved away northeastwards across the nothern parts while the other lay over north Kalat division on the last day. They caused scattered to local rainfall in Quetta and Kalat divisions between the 26th and the 28th.

Outstanding rainfall amounts during the month were:—Cherat 7", Risalpur, Jhelum 3" and Campbellpur 2" on the 4th, Cherat and Quetta 2" each on the 18th and Murree 1-1/2" on the 19th.

The total rainfall during the month was in large excess in Rawalpindi, Peshawar and D. I. Khan divisions, in slight excess in Lahore division and normal in Quetta and Khairpur divisions. It was in moderate defect in Kalat division and in large defect elsewhere. Averaged over the region it was in moderate excess.

The mean maximum temperature was above normal in Hyderabad division, normal in Quetta, Kalat and Khairpur divisions and the Federal Capital Area and below normal over rest of the region.

The mean minimum temperature was in defect in Rawalpindi, Peshawar and D. I. Khan divisions and normal elsewhere.

The mean relative humidity was in excess in Rawalpindi, Peshawar, Hyderabad and Khairpur divisions and the Federal Capital Area and normal elsewhere.

The mean cloud amount was in excess in Lahore division, in defect in Federal Capital Area and Hyderabad division and normal over rest of the region.

East Pakistan

Three westerly low pressure waves moved in close succession towards the end of second week and caused local rain or thundershowers practically over the whole region with a few heavy falls in Chittagong division between the 13th and 17th.

Thereafter, in association with the passage of low pressure waves across the north of the region, scattered to local rain or thundershowers occurred only in Chittagong division on the 20th and again between the 25th and 27th.

Some of the noteworthy amounts of rain fall were:—Rangamati 3", Maijdee Court 2" and Comilla 1-1/2" on the 15th, Chittagong 4" on the 16th and Srimangal 1-1/2" on the 25th.

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

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

The mean relative humidity was normal over the entire region. The mean cloud amount was normal in Chittagong division and in defect elsewhere.

Table 1 contains the divisional means of rainfall, temperature, humidity and cloud amount for the 15 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 FEBRUARY, 1959.

Subs 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	03 hrs. G. M. T. Relative humidity	03 hrs. G. M. T. Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		o	o	Mb	%	
EAST PAKISTAN									
Chittagong	2.22	1.05	+1.17	+111	—2.3	+0.3	+0.3	+1	—0.1
Dacca	0.40	1.06	—0.66	—62	—0.3	+0.3	—0.3	—2	—0.6
Rajshahi	0.24	0.86	—0.62	—72	—0.6	+0.2	—0.5	—5	—1.4
Mean	0.90	0.98	—0.08	—8	—1.0	+0.3	—0.2	—2	—0.8
WEST PAKISTAN									
Kashmir (x)									
Lahore	1.47	1.32	+0.15	+11	—2.9	+1.1	+0.5	+3	+0.7
Rawalpindi	3.93	2.57	+1.36	+53	—3.5	—2.5	—0.5	+8	+0.2
Multan	0.08	0.48	—0.40	—83	—2.1	—0.6	—1.0	+1	+0.1
Bahawalpur	0.03	0.26	—0.23	—88	—2.5	+0.4	—0.4	+1	—0.1
Peshawar	6.64	2.10	+4.54	+216	—2.1	—2.3	+0.1	+7	—0.3
D. I. Khan	2.52	1.50	+1.02	+68	—3.9	—2.0	—0.1	+4	—0.5
Quetta	1.12	1.21	—0.09	—7	+0.9	—1.3	+0.2	+3	+0.3
Kalat	0.67	1.17	—0.50	—43	+0.3	—0.5	—0.6	—2	—0.3
Federal Capital Area	0.00	0.44	—0.44	—100	+0.8	+0.5	+3.8	+11	—0.7
Hyderabad	0.05	0.31	—0.26	—84	+2.9	+0.7	+2.9	+15	—1.3
Khairpur	0.27	0.30	—0.03	—10	—1.3	—0.7	—0.3	+6	+0.3
Mean	1.32	1.04	+0.28	+27	—0.6	—0.7	+0.1	+3	—0.2
Junagadh (x)									

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1959.

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. in accordance with R.M.S. mbs. pressure level in Grm.	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	1006.4		1017.9	57.3	56.5	56.1	14.9		94		5.6		2	0	1	3	6	0	1	1	14
	0300		1008.3		1015.8	64.6	60.8	57.9	16.5		78	...	3.1	...	4	0	3	1	14	1	2	1	2
	1200		1004.8		1012.1	74.0	64.2	56.9	15.9		55		1.5		6	1	0	0	9	3	7	1	1
Cox's Bazar (P.T.)	0300	38	1013.8	+0.2	1015.1	71.5	66.3	61.0	19.6	+1.2	75	+6	1.8	+0.3	4	8	5	7	3	1	0	0	0
	1200		1010.9		1012.2	72.6	66.3	62.0	19.3		69		2.5		5	0	0	5	5	2	4	7	0
Chittagong (Patenga)	0000	20	1011.8		1012.5	62.3	60.5	59.0	16.8		88		2.5		0	9	3	6	0	0	0	0	10
	0300		1014.1		1014.9	69.9	64.5	60.8	18.2		73		2.7		4	13	0	7	3	0	0	1	0
	1200		1010.7		1011.4	73.8	66.4	61.2	18.8		65		1.5		0	0	0	0	10	6	4	8	0
Chittagong	0300	46	1013.4	—0.6	1015.1	70.4	64.6	60.7	17.7	+0.4	70	—1	2.5	+0.7	1	8	4	3	7	1	0	0	4
	1200		1009.8		1011.5	73.0	66.2	61.9	18.7		67		0.9		5	0	0	0	4	7	5	5	2
Maijdi Court	0000	25	1012.0		1012.9	61.6	60.3	59.6	17.3		91		0.9		0	0	0	0	0	1	0	1	26
	0300		1013.8	—0.7	1014.6	69.9	64.4	60.5	18.2	—0.5	73	0	1.6	—0.6	1	0	0	2	1	1	0	5	18
	1200		1010.5		1011.4	74.2	66.9	62.9	18.8		65		0.6		1	1	0	1	2	0	0	0	23
Comilla	0000	29	1011.3		1012.3	58.9	58.1	57.1	16.0		94		2.1		0	0	0	0	0	0	0	0	28
	0300		1013.5	—1.0	1014.5	67.6	62.5	58.9	17.4	—0.3	74	+3	1.6	—0.6	0	0	0	0	1	0	0	0	27
	1200		1009.7		1010.7	75.2	64.4	58.4	15.4		52		1.2		0	0	0	0	2	0	0	0	26
Brahmanbaria	0000	32	1011.7		1012.9	59.7	57.9	56.4	15.6		88		2.4		0	0	2	0	4	2	0	0	20
	0300		1013.7		1014.8	69.4	62.4	56.7	15.8	—0.1	65	—2	1.6		2	2	1	4	0	1	2	0	16
	1200		1009.8		1010.9	74.8	63.9	56.8	15.4		52		1.4		0	0	0	1	2	1	1	0	23
Srimangal	0000	69	1010.3		1012.9	51.6	51.0	50.5	12.7		96		1.8		0	0	0	0	1	0	0	0	27
	0300		1012.1	—0.9	1014.5	65.6	60.9	57.0	16.6	+1.0	76	—1	1.9	—0.2	0	0	0	0	1	0	0	0	27
	1200		1008.4		1010.9	71.6	63.4	57.0	16.8		62		1.2		0	0	0	0	0	0	0	0	28
Sylhet	0000	115	1007.9		1012.1	57.0	55.4	54.0	14.4		90		2.8		0	0	22	2	0	0	0	0	4
	0300		1010.1		1014.3	65.2	60.7	57.3	16.0		76		2.4		0	0	25	0	0	0	0	0	3
	1200		1006.4		1010.5	70.9	62.1	55.5	14.9		58		1.1		0	0	1	0	0	2	6	1	18
Dacca Division																							
Mymensingh	0000	62	1010.5		1012.7	58.0	55.7	53.7	13.9		85		0.9		0	0	0	1	0	0	6	0	21
	0300		1012.7	—0.7	1014.9	64.0	59.4	56.2	15.3	—0.2	75	+1	1.7	—0.6	0	0	2	7	0	0	7	21	0
	1200		1008.7		1010.8	75.8	63.0	52.9	14.5		45		0.9		0	0	1	0	0	0	9	2	16
Narayanganj	0000	26	1011.2		1012.1	60.8	58.8	57.1	16.2		88		2.6		0	0	0	0	0	0	1	0	27
	0300		1013.7	—0.7	1014.6	69.1	62.1	56.7	15.8	—0.9	65	—6	2.3	—0.2	3	0	3	2	1	4	3	8	4
	1200		1009.6		1010.5	74.1	62.9	54.4	14.7		51		0.9		0	0	0	1	5	2	0	6	14
Dacca (Tejgaon)	0000	27	1010.8		1011.8	57.1	56.0	55.0	14.9		94		2.4		4	0	1	0	1	2	1	2	17
	0300		1013.1		1014.1	67.8	61.6	56.7	16.3		70		2.4		8	2	0	1	1	2	3	1	10
	1200		1009.3		1010.2	72.9	61.9	53.0	14.0		54		1.1		2	0	0	0	3	4	7	5	7

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1959.

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										
Dacca Division																							
Faridpur	0000	46	1011.2		1012.8	57.6	56.4	54.5	15.4		94		2.5		4	5	0	1	2	1	0	1	14
	0300		1013.9	+0.4	1015.5	68.1	61.6	58.0	15.7	−0.6	67	−7	1.7	−0.3	14	0	0	0	3	2	0	2	7
	1200		1009.4		1011.0	73.9	65.5	59.8	17.6		61		0.9		5	2	0	0	2	2	0	1	16
Barisal	0000	11	1012.0		1012.4	62.1	60.5	59.1	17.3		91		1.1		1	0	0	0	0	0	0	0	27
	0300		1014.0	−0.7	1014.3	70.3	64.5	60.7	18.8	+0.3	77	+4	0.7	−1.4	7	1	0	1	5	1	1	0	12
	1200		1010.8		1011.2	76.5	71.5	68.4	24.5		77		1.1		4	0	0	0	3	0	0	0	23
Rajshahi Division																							
Khulna	0000	16	1012.0		1012.5	61.0	59.1	57.5	15.6		88		1.0		0	0	0	0	0	0	0	0	28
	0300		1014.4	−0.4	1015.0	71.1	63.0	56.8	16.1	−0.4	62	−4	0.8	−1.7	1	1	0	0	1	0	0	1	24
	1200		1010.4		1011.0	76.0	64.7	56.9	15.5		51		0.4		0	0	0	0	2	0	0	0	26
Satkhira	0000	16	1012.1		1012.7	59.7	58.4	57.5	16.1		91		0.5		0	0	0	0	0	0	0	0	28
	0300		1014.3	−0.3	1014.9	70.3	62.0	55.8	14.8	−2.3	59	−15	0.9	−1.5	7	2	0	0	0	2	0	0	17
	1200		1010.8		1011.4	76.3	66.0	58.3	16.7		55		0.6		0	0	0	0	0	2	0	0	26
Jessore	0000	26	1011.1		1012.0	57.1	55.8	54.5	14.4		90		2.3		0	1	0	0	1	0	0	0	26
	0300		1013.7	−0.9	1014.6	67.5	61.8	57.1	16.5	+0.1	72	+1	1.1	−1.1	4	6	3	2	3	2	2	5	1
	1200		1010.3		1011.2	78.7	66.2	58.1	16.6		49		0.5		10	0	1	0	9	1	5	2	0
Pabna	0000	48	1010.0		1011.6	55.5	53.9	51.0	13.5		90		(k) 0.0		0	6	0	0	(f) 0	8	0	9	1
	0300		1011.7		1013.4	65.9	59.7	55.2	15.0	−0.9	69	−1	(e) 0.2		0	7	0	0	0	6	0	15	0
	1200		1008.2		1009.9	75.0	64.1	55.3	15.4		52		(e) 0.6		1	8	0	0	0	5	1	13	0
Serajganj	0000	49	1010.4		1012.3	56.3	54.8	53.4	13.8		90		0.9		0	0	0	0	0	1	1	0	28
	0300		1011.6		1013.5	68.5	61.5	56.0	15.8		65		0.6		1	0	0	0	1	3	3	7	13
	1200		1008.6		1010.4	72.5	64.2	58.5	16.9		58		0.2		0	0	0	0	0	0	0	0	28
Rajshahi	0300												(d) 0.9										
Bogra (P.B.O.)	0000	65	1009.8		1012.1	56.5	55.0	53.6	14.1		90		0.8		0	0	0	1	0	3	2	2	20
	0300		1011.9	−1.0	1014.2	65.9	60.6	56.7	15.5	+0.8	71	−1	1.1	−0.8	4	6	1	2	0	7	4	2	2
	1200		1008.0		1010.3	74.9	64.5	56.9	16.0		54		0.8		0	2	0	0	0	3	14	4	5
Dinajpur	0000	123	1007.6		1012.0	54.6	52.3	50.0	12.4		84		0.0		0	0	0	0	0	0	0	0	28
	0300		1009.8	−1.0	1014.2	65.2	58.7	52.9	13.8	−0.2	65	−8	0.2	−1.7	0	0	1	0	0	0	2	0	25
	1200		1005.8		1010.1	73.2	62.5	54.3	14.6		53		0.0		0	0	0	0	0	0	3	0	25
Rangpur	0000					54.9	53.6	52.4	13.3		90		0.6		0	0	2	0	0	2	10	0	14
	0300					62.3	58.4	55.2	14.7		77		1.3		1	9	5	1	1	5	5	0	1
	1200					72.2	62.3	54.7	14.5		54		1.1		2	0	0	0	0	2	6	2	16

(f) Observation for 24 days.
(d) Mean for 27 days.
(e) Mean for 26 days.
(k) Mean for 20 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1959.

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 (Jail Road)	0000	702	988.1		1013.8	48.9	47.1	45.0	10.2		87		1.8		0	2	3	1	0	0	0	1	21
	0300		989.7	—1.0	1015.3	50.8	48.2	45.4	10.3	+0.6	81	+6	4.1	+1.0	2	1	1	2	0	0	2	1	19
	1200		987.7		1012.5	65.9	55.4	45.0	10.3		47		3.0		2	1	1	2	0	0	4	13	5
,, (Cantt.)	0000	703	987.4		1013.2	49.8	47.6	45.0	10.3		83		2.1		5	1	1	4	0	0	3	6	8
	0300		988.8		1014.6	50.7	48.0	45.0	10.2		81		3.7		4	3	1	2	0	1	4	10	3
	1200		986.9		1011.9	65.6	55.4	45.1	10.4		48		3.4		4	3	2	2	1	0	1	15	0
,, (Walton)	0300	699	989.6		1015.1	50.1	48.1	45.9	10.5		85		3.3		4	1	2	2	1	0	2	8	8
	1200		987.2		1011.8	66.3	56.2	46.7	10.9		49		3.0		0	1	1	5	0	0	0	19	2
Sialkot	0000	830	*		*	(d) 48.2	(d) 46.6	(d) 44.4	10.1		88		1.9		0	3	0	1	0	0	0	2	22
	0300		(d) 985.0	—1.2	(d) 1015.0	(d) 52.3	(d) 49.9	(d) 47.2	11.1	+0.5	84	+1	2.9	+0.3	0	4	0	2	0	1	0	5	16
	1200		(d) 982.5		1011.8	64.8	56.3	47.9	11.7		56		2.8		0	4	0	4	0	1	0	9	10
RAWALPINDI																							
Jhelum	0000	765	985.8		1013.7	48.1	45.9	43.3	9.5		83		3.1		1	3	0	1	1	0	2	5	15
	0300		987.4		1015.3	49.1	46.5	43.6	9.6		80		3.6		1	3	0	1	0	0	1	8	14
	1200		985.1		1012.2	63.7	55.3	47.1	11.1		56		3.7		1	0	0	1	0	2	5	15	4
Chaklala	0000	1667	954.9		1015.3	43.4	42.4	41.3	8.8		92		3.2		1	2	4	0	0	0	3	5	13
	0300		956.2		1016.7	43.6	42.3	40.9	8.7		90		4.3		1	4	3	1	0	0	1	6	12
	1200		954.4		1012.9	59.9	50.7	41.1	8.9		51		3.9		1	0	3	1	1	1	19	1	1
Rawalpindi	0000	1676	954.9		1015.5	44.2	42.6	41.6	8.7		87		*		1	0	0	0	0	0	0	5	22
	0300		955.8	—1.4	1016.5	45.5	42.9	41.3	8.3	—0.2	80	+2	3.4	+0.1	3	2	2	1	1	2	1	0	16
	1200		(d) 954.6		(d) 1013.5	58.2	51.3	43.9	10.1		61		3.5		0	1	1	0	2	2	16	4	2
Khushab	0000	616	*		*	46.0	44.4	42.7	9.2		87		1.2		1	0	1	0	0	0	1	0	25
	0300		993.9	—0.6	1016.6	47.8	(d) 45.4	(d) 42.6	9.3	+1.0	82	+17	2.2	—0.8	0	1	4	0	0	0	0	0	23
	1200		991.7		1013.6	65.9	55.9	47.0	10.7		49		2.0		2	1	4	0	1	1	0	5	14
Sargodha (x)	0000	614																					
	0300																						
	1200																						
MULTAN																							
Lyallpur	0000	605	991.5		1013.8	47.5	45.1	42.8	9.2		82		2.5		0	6	0	1	0	1	0	0	20
	0300		992.7	—1.2	1015.0	46.8	44.6	42.8	9.0	—0.3	83	+8	3.5	—0.3	0	3	2	0	1	2	1	2	17
	1200		990.9		1012.1	66.6	55.4	42.7	10.0		45		3.2		2	3	1	3	1	3	3	3	9
Montgomery	0000	558	993.5		1014.0	47.8	45.2	42.8	9.1		81		1.1		0	2	0	0	0	5	0	1	20
	0300		995.0	—1.0	1015.4	49.2	45.8	41.9	9.0	—1.0	74	—4	1.7	—0.7	0	2	0	0	0	4	0	0	22
	1200		992.7		1012.4	68.7	55.2	40.9	8.8		37		1.5		0	3	0	3	0	6	0	1	15
Multan (P.B.O.)	0000	404	998.7		1013.8	47.8	45.0	41.7	8.9		79		2.3		3	2	2	0	0	1	0	0	20
	0300		1000.7	—	1015.7	49.5	46.1	41.9	9.1		75		3.5		3	6	0	0	0	1	0	3	15
	1200		998.1		1012.5	69.0	55.5	41.3	9.0		37		2.5		5	7	0	1	3	3	1	1	7
Multan (Surface)	0300	413	1000.3	—1.0	1015.4	51.9	47.3	42.3	9.1	—1.6	68	—2	3.9	+1.4	15	4	0	1	0	0	0	0	8
	1200		997.9		1012.5	69.2	55.5	41.2	8.9		36		2.4		9	2	0	0	2	4	1	1	

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1959.

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										
BAHAWALPUR																							
Lelah (R)	0000	490																					
	0300																						
	1200																						
Khanpur Sarface (R)	0300	297																					
	1200																						
Khanpur (P.B.O.)	0000	290	1002.5		1013.2	47.8	44.9	41.6	8.8	...	78	...	1.1	...	2	11	0	0	0	0	1	0	14
	0300		1004.4		1015.1	49.6	45.9	41.1	8.8		73		1.7		0	15	0	0	0	0	1	0	12
	1200		1001.5		1011.8	72.4	56.2	38.7	8.2		29		1.9		2	9	1	0	0	4	2	0	10
Bahawalpur	0300	384	1001.3	—0.4	1015.4	52.0	47.4	41.7	9.1	—0.4	68	+1	2.5	—0.1	1	6	3	6	3	0	0	3	6
	1200		998.6		1012.2	72.4	56.9	41.8	8.9		32		2.7		8	5	0	0	1	3	0	1	10
Fort Abbas	0000	475	*		*	47.5	45.6	43.3	9.6		86		1.4		0	5	0	2	0	20	0	1	0
	0300		997.7		1014.8	55.0	51.7	48.5	11.6	...	78	...	1.1	...	0	9	0	1	0	16	0	2	0
	1200		(d) 995.2		(d) 1011.9	72.1	*	*	*		*		1.2		0	16	0	0	0	12	0	0	0
PESHAWAR																							
Chakdara	0000	2197	936.9		1015.8	41.9	40.4	38.1	8.0		88		3.3		0	7	0	3	0	0	0	1	17
	0300		937.1		1016.3	41.4	39.8	37.5	7.7	...	87	...	3.9	...	0	6	0	1	0	0	2	1	18
	1200		934.9		1011.4	57.3	49.8	41.7	9.2		57		3.9		0	1	0	2	0	7	5	0	13
Peshawar	0000	1177	973.0		1016.0	44.1	41.9	38.7	8.0		82		2.7		0	0	0	6	7	4	0	1	10
	0300		974.2	—1.5	1017.2	44.3	41.6	37.7	7.7	—0.5	78	+2	3.8	—1.3	0	0	0	6	6	3	0	1	12
	1200		972.2		1013.9	60.3	50.4	38.5	8.0		44		4.0		2	4	0	4	5	2	1	3	7
Risalpur	0000	1009	978.8		1015.9	43.3	41.4	38.7	8.0		84		3.3		0	1	0	0	0	2	10	3	12
	0300		980.1		1017.2	43.9	41.9	38.9	8.2	...	84	...	3.8	...	0	1	1	0	0	0	9	5	12
	1200		977.8		1013.6	61.2	51.2	39.6	8.4		45		3.8		0	2	1	1	1	3	13	3	4
Haripur	0300	1757	952.2		1015.7	44.0	42.2	40.4	8.4	...	86	...	3.5	...	4	10	10	2	0	2	0	0	0
	1200		950.7		1012.0	60.4	52.8	46.3	10.6		59		3.4		0	4	0	7	0	11	0	6	0
Campbellpur	0300	1175	937.7		1016.7	44.8	42.5	39.6	8.2	...	83	...	3.1	...	3	3	0	1	0	0	0	1	20
	1200		971.9		1013.5	60.8	52.3	42.8	9.6		53		4.2		13	4	0	0	0	1	0	5	5
D. I. KHAN																							
Kohat	0000	1667	956.8		1016.6	47.0	42.5	36.6	7.6		67		2.8		4	1	0	0	0	0	1	20	2
	0300		957.6		1017.7	47.3	42.4	36.8	7.3	...	65	...	3.8	...	1	3	0	0	0	0	0	18	6
	1200		955.9		1014.4	60.3	49.5	37.5	7.7		43		3.5		1	8	2	3	2	2	0	4	6
Bannu	0000	1263	968.8		1014.9	46.1	42.2	41.2	9.0		85		1.1		0	0	0	0	0	0	2	2	24
	0300		969.9		1016.0	46.6	43.1	39.2	7.9	—0.2	73	+7	1.7	—0.8	0	0	1	0	0	0	9	5	13
	1200		967.6		1012.0	62.7	52.3	41.2	8.7		45		2.2		0	0	2	11	3	0	3	0	9
D. I. Khan	0000	570	*		*	48.9	45.6	41.8	8.8		76		1.1		0	0	0	0	0	0	0	1	27
	0300		993.7	—2.4	1014.5	48.7	45.8	42.9	9.2	+0.5	79	+8	3.0	+0.4	0	0	0	0	0	0	0	2	25
	1200		992.1		1011.9	66.3	56.0	46.1	10.7		48		1.5		0	0	0	0	0	0	0	1	27

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1959.

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 mba. 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 (x)	0000	441																					
	0300		999.4	0.0	1015.9	51.8	45.6	39.4	7.7	+0.1	58	+7	*	*									
	1200		996.5		1012.1	74.7	59.9	45.4	10.6		37		*	*									
KALAT (NORTH)																							
Nokkundi	0000	2229	935.1		1014.1	49.2	41.2	29.8	5.6		47		0.3		6	11	0	0	0	1	1	9	0
	0300		936.8		1016.2	47.9	40.7	30.3	5.7	—1.7	51	+2	0.6	—1.9	8	14	1	0	1	0	0	4	0
	1200		933.8		1009.8	68.5	51.4	30.6	6.1		26		0.7		2	1	10	6	2	3	3	1	0
KALAT (SOUTH)																							
Turbat	0000	510	*		*		*	*	*		*		0.2		3	0	15	0	2	1	7	0	0
	0300		*		*		*	*	*		*		0.2		0	3	16	4	2	2	1	0	0
	1200		*		*		*	*	*		*		0.3		0	0	8	2	2	4	12	0	0
Jiwani	0000	185	1006.8		1013.4	64.5	60.1	55.6	15.8		76		1.6		3	2	0	0	3	2	10	3	5
	0300		1008.3		1014.6	64.0	59.3	55.2	15.1		74		2.0		5	2	1	0	2	1	6	3	8
	1200		1006.7		1013.0	73.5	63.0	54.6	14.8		53		2.4		1	0	1	3	6	5	10	2	0
Pasni	0000	28	1012.1		1013.1	62.0	57.9	55.4	14.6		76		1.1		1	3	0	0	0	1	8	5	10
	0300		1013.6	—1.3	1014.6	61.2	58.2	55.2	15.2	+0.6	82	+1	3.1	+0.8	1	2	0	0	0	1	5	7	12
	1200		1011.3		1012.3	75.6	67.1	61.2	18.8		62		1.5		1	0	1	2	5	14	3	1	1
Ormara	0000	15	1012.0		1012.6	63.2	59.7	56.4	15.9		80		2.0		0	1	0	1	0	0	11	1	14
	0300		1013.7		1014.2	63.7	59.5	56.5	15.5	—0.7	77	—5	2.0	—0.8	0	0	0	2	1	1	8	2	14
	1200		1011.2		1011.7	74.9	63.9	55.2	15.3		52		1.0		0	0	2	4	2	8	12	0	0
Lasbela	0000	292	1003.5		1013.5	58.3	53.1	46.1	11.5		69		0.6		0	0	4	1	0	0	0	0	23
	0300		1004.8	+0.3	1014.9	62.2	56.1	49.2	12.6	—0.3	66	—6	0.5	—1.6	5	0	4	1	0	1	1	1	15
	1200		1002.7		1012.6	82.1	61.9	44.7	9.8		26		0.1		0	0	4	4	6	12	1	0	1
FEDERAL CAPITAL AREA																							
Karachi (Manora)	0000	13	1011.9		1012.4	66.4	63.0	60.0	18.1		82		0.6		0	2	1	0	0	2	8	1	14
	0300		1013.8	—1.4	1014.3	66.9	63.4	60.0	18.3	+3.8	81	+11	1.4	—0.7	1	2	4	0	0	2	7	0	12
	1200		1011.6		1012.1	75.5	68.7	63.7	20.9		69		1.0		1	0	3	0	0	5	14	5	0
Karachi (Mauripur)	0000	52	1010.5		1012.4	61.4	59.5	55.2	16.5		89		1.0		2	4	0	0	0	2	8	4	8
	0300		1012.1		1014.0	63.1	58.7	54.4	14.9		76		1.7		2	10	1	0	0	1	7	2	5
	1200		1009.9		1011.8	76.3	64.4	56.0	15.3		49		1.2		0	1	2	0	0	12	10	3	0
Karachi (City)	0300	20	1013.2		1014.1	65.2	61.7	58.7	17.2		81		1.2		2	8	1	0	0	5	5	4	3
	1200		1010.7		1011.6	75.5	66.7	60.5	18.4		61		0.7		0	2	1	0	0	10	15	0	0
Karachi (P.A.F.)	0000	38	1011.5		1012.9	62.9	60.2	58.0	16.6		85		0.8		1	6	0	0	0	6	2	2	11
	0300		1013.1		1014.5	62.7	59.7	57.3	16.1		83		1.3		4	6	0	0	0	2	5	0	11
	1200		1010.8		1012.1	77.3	67.4	60.8	18.5		57		0.8		0	1	2	0	0	23	1	1	0
Karachi (Airport)	0000	73	1010.1		1012.8	61.7	57.0	52.4	13.7		73		0.8		1	2	0	0	0	1	4	1	19
	0300		1011.9		1014.6	61.1	57.0	53.0	14.1		76		1.2		0	3	0	0	0	2	4	2	17
	1200		1009.4		1012.0	77.5	62.6	51.7	12.7		39		1.1		0	3	0	0	4	15	5	1	0
HYDERABAD																							
Badin	0000	31	1011.0		1012.1	58.8	56.7	53.7	14.8		87		0.2		5	0	0	0	0	11	0	0	12
	0300		1013.6	0.0	1014.7	60.5	58.2	55.9	15.5	+3.1	86	+18	0.2	—1.7	3	1	0	1	0	10	0	0	13
	1200		1011.5		1012.6	83.1	67.2	54.2	15.8		41		0.5		6	0	0	0	1	17	2	0	2
Nagarparkar	0000	178	*		*	64.4	54.8	44.7	10.4		50		0.0		2	0	0	0	0	4	1	5	16
	0300		*		*	66.1	56.2	47.1	11.0		50		0.6		0	0	0	0	0	17	1	2	8
	1200		*		*	76.6	63.0	52.4	13.5		44		0.0		8	0	0	0	1	12	0	7	0

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1959.

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.	F.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Umarkot	0000	55	1009.9		1011.9	56.9	54.3	51.3	13.3		84		0.0		2	3	2	0	11	5	0	0	5
	0300		1011.6		1013.6	57.6	54.7	51.2	13.3		81		0.8		2	4	0	3	10	2	0	0	7
	1200		1008.5		1010.4	82.7	64.8	50.4	12.9		33		0.6		2	2	0	0	1	8	10	4	1
Chhor	0000	19	1011.5		1012.2	53.5	50.2	45.9	10.9		78		0.7		2	2	0	0	0	9	1	0	14
	0300		1013.5		1014.2	57.4	52.8	47.5	10.0		54		1.4		4	3	1	0	3	9	2	1	5
	1200		1010.3		1010.9	82.9	61.2	40.9	8.7		23		0.7		2	3	0	0	0	9	13	1	0
Hyderabad	0000	98	1008.8		1012.4	60.4	55.5	51.3	12.8		71		0.0		2	1	0	0	2	4	0	0	19
	0300		1010.3	—1.8	1013.9	59.9	55.1	49.9	12.7	+2.6	72	+13	0.7	—1.0	8	0	0	0	3	4	0	0	13
	1200		1007.6		1011.0	81.8	61.7	42.7	9.7		27		0.7		3	2	1	1	8	5	0	0	8
KHAIRPUR																							
Padidan	0000	153	1006.8		1012.4	51.9	48.0	43.7	9.7		74		0.9		7	2	0	2	1	0	0	2	14
	0300		1008.9		1014.5	50.7	47.1	42.7	9.4		74		1.4		4	0	1	1	1	0	2	6	13
	1200		1006.2		1011.5	76.8	59.4	41.4	9.5		30		2.2		8	6	0	0	3	2	0	2	7
Nawabshah	0000	124	1008.7		1013.3	53.1	49.5	45.1	10.5		75		0.7		0	0	0	0	3	1	1	3	20
	0300		1010.7		1015.3	53.7	50.1	46.1	10.7		78		1.6		1	0	0	0	1	1	0	3	22
	1200		1008.0		1012.0	78.7	62.4	48.1	11.9		36		1.7		4	4	0	0	3	2	2	2	11
Sukkur	0300	221	1006.2	—0.8	1014.3	54.6	49.1	42.4	9.4	—0.3	65	+7	2.1	+0.5	2	4	1	9	1	1	0	0	10
	1200		1003.5		1011.2	73.9	59.2	45.8	10.6		37		2.3		4	3	5	3	4	3	2	2	2
Kashmore	0000	255	*		*	*	*	*	*		*		*		1	3	8	1	5	0	5	1	4
	0300		*		*	57.3	48.2	36.6	7.4		45		*		2	4	6	3	4	1	2	1	5
	1200		*		*	71.7	57.9	44.9	10.2		39		*		0	5	8	1	4	1	3	1	5
Jacobabad	0000	183	1006.1		1012.8	54.1	48.2	40.7	8.9		62		1.1		4	1	11	2	0	0	1	3	6
	0300		1008.5	—1.1	1014.8	53.4	47.9	41.0	8.9	—0.2	64	+5	2.1	+0.1	3	1	8	8	1	0	0	3	4
	1200		1005.1		1011.7	75.2	60.6	47.7	11.5		39		2.1		1	5	2	12	1	0	2	4	1
JUNAGADH																							
Veraval (x)	0000	26																					
	0300																						
	1200																						
AFGHANISTAN																							
Jalalabad (x)	0300	1950																					
	1200																						
ARABIA																							
Muscat	0300	20	1014.3		1015.0	68.1	62.2	57.5	16.5		70		1.4	—0.7	1	0	1	0	0	0	4	4	18
	1200		1012.2		1012.9	72.4	66.1	62.0	19.1		70		1.4		8	0	7	0	1	0	0	6	6
HILL STATIONS																							
KASHMIR																							
Srinagar (x)	0000	5205																					
	0300																						
	1200																						

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1959.

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										
Gulmarg (x)	0300	8709																					
	1200																						
Gurez (x)	0300																						
	1200																						
Sonamarg (x)	0300																						
	1200																						
Dras (x)	0300	10059																					
	1200																						
Kargil (x)	0300																						
	1200																						
Leh (x)	0000																						
	0300																						
	1200																						
Skardu (x)	0000	7250																					
	0300																						
	1200																						
Misgar	0000	10190			*	17.1	*						4.5		0	0	0	0	0	0	0	0	28
	0300		693.6	...	3033.0	20.6	*						5.1		0	0	0	0	0	0	2	0	26
	1200		690.5		2995.0	49.2	*						5.5		0	0	10	4	0	0	9	0	5
Allahabad (x)	0300	6850																					
	1200																						
Gilgit (Surface) (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000		*																				
	0300	7113	781.8	−1.6	1492.0	32.9	29.4	23.1	4.3	−0.6	67	+6	5.0	+1.2	0	5	4	7	0	0	0	0	12
	1200		781.0		1475.0	38.9	34.6	27.5	5.3		64		5.0		0	1	3	6	0	0	0	0	18
PESHAWAR																							
Drosh	0000	4806	854.0		1501.0	33.8	31.5	27.1	5.1		77		4.4		0	2	1	1	0	1	0	0	23
	0300		855.2	−1.2	1512.0	33.3	30.9	26.6	5.0	−0.3	76	+5	5.0	+1.1	0	1	2	3	0	1	0	0	21
	1200		852.1		1484.0	43.5	36.2	22.6	4.3		45		5.2		0	8	5	4	2	1	0	0	8
Cherat	0000	4272																					
	0300		871.1	+0.2	1501.0	42.0	38.3	32.0	6.4	+1.0	70	+14	2.7	0.8	11	7	0	5	4	0	0	1	0
	1200		869.9		1491.0	47.5	43.6	37.7	8.1		72		3.4		14	5	0	2	6	0	0	1	0
Kakul	0000	4214	870.4		1475.0	39.1	36.4	29.4	6.2		76		3.8		5	1	4	3	1	1	3	10	0
	0300		871.5		1485.0	40.1	36.3	30.1	5.7		68	...	4.6		6	2	1	2	2	0	1	14	0
	1200		870.1		1476.0	49.8	42.5	33.0	6.3		52		4.4		1	1	1	4	2	3	7	9	0
Balakot	0000	3226	x		x	38.3	35.8	30.5	5.9		74		4.6		8	1	0	0	1	0	0	6	12
	0300		x		x	39.6	36.2	32.0	5.9		71	...	5.3		4	1	0	0	0	0	0	5	18
	1200		x		x	50.9	44.4	36.6	7.4		58		5.2		6	1	1	0	0	0	0	4	16
Landikotal	0000	3503	893.7		1471.0	37.4	34.6	29.5	5.7		75		3.0		0	0	0	0	0	0	0	3	25
	0300		894.9		1481.0	38.2	34.7	28.5	5.5		69	...	3.1		0	1	0	0	0	3	0	2	22
	1200		893.3		1478.0	50.3	42.3	29.3	6.0		48		3.5		1	1	0	0	1	5	3	9	8

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1959.

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										
D. I. KHAN																							
Parachinar	0000	5673	824.7		1486.0	31.0	28.7	24.5	4.5		77		0.5		8	0	0	0	0	0	0	9	11
	0300		825.6	—1.1	1494.0	31.5	28.8	23.6	4.4	—0.6	73	+5	2.0	—1.4	5	1	0	1	0	1	2	4	14
	1200		824.1		1473.0	45.1	36.7	24.1	4.4		44		2.9		2	3	2	4	2	2	2	3	8
Miranshah	0000	3026	908.2		1455.0	39.6	36.0	30.4	5.7		70		1.1		0	2	0	0	0	1	0	2	23
	0300		910.6	...	1481.0	42.1	37.9	31.6	6.1	0.0	66	—4	2.1	—0.5	0	0	0	1	0	0	0	4	23
	1200		907.8		1471.0	56.1	45.6	31.2	6.2		40		2.4		0	17	0	3	0	2	0	3	3
Wana	0300	4503	861.4	...	1479.0	33.7	31.9	29.4	5.4	—0.2	82	+6	2.5	—0.3	0	0	0	0	1	3	1	0	23
	1200		859.8		1467.0	51.2	41.2	25.9	4.8		37		3.2		0	1	5	4	2	4	3	1	8
QUETTA																							
Fortsandeman	0300	4614	859.2	—0.9	1491.7	37.8	34.5	29.0	5.5	—0.3	71	—3	2.7	0.0	2	1	5	3	2	1	1	1	12
	1200		857.9		1483.7	55.6	44.1	26.8	5.2		35		3.5		4	5	3	0	2	4	4	4	2
Hindubagh	0000	5909	817.4		1486.7	33.4	29.9	24.7	4.4		67		1.6		0	0	2	0	0	2	10	1	13
	0300		818.7		1497.5	33.1	30.1	24.8	4.3		72		2.1		0	0	2	0	0	2	12	1	11
	1200		817.5		1476.6	47.6	39.4	29.4	5.3		48		2.9		0	0	1	0	0	2	20	0	5
Loralai	0000	4699	854.1		1468.1	37.3	33.9	28.3	5.3		70		2.4		0	0	0	0	0	3	14	1	10
	0300		855.0		1478.4	35.3	32.4	26.8	5.1		73		2.5		0	0	0	0	0	6	10	6	6
	1200		853.1		1461.3	57.0	44.9	27.7	5.3		33		3.5		0	1	3	12	2	4	0	4	2
Barnal	0300	2861	*		*	*	*	*	*				1.7		0	0	0	0	0	0	28	0	0
	1200		*		*	*	*	*	*				2.4		0	0	22	0	4	0	2	0	0
Samungli	0000	5253	839.6		1486.8	33.6	32.1	30.1	5.6		87		2.9		0	0	1	10	0	1	2	0	14
	0300		839.9		1489.9	34.0	31.6	30.3	5.2		78		4.2		0	0	1	8	3	0	3	2	11
	1200		838.1		1468.8	50.5	43.7	35.4	7.3		59		4.7		2	0	0	4	2	5	7	7	1

(*) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1959.

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	0300	5490	831.5	−2.1	1493.5	39.4	35.7	29.6	5.8	+0.3	70	−5	4.1	+0.9	0	2	1	2	5	2	2	0	14
	1200		830.0		1471.7	50.3	43.0	35.7	7.0		55		5.1		5	1	0	0	3	6	5	1	7
Chaman	0000	4311	868.4		1488.6	43.3	39.1	33.6	6.4		67		2.7		0	12	0	8	1	3	0	0	4
	0300		869.6	−0.5	1497.0	43.0	39.5	34.7	6.8	+0.7	72	+11	3.0	−0.1	0	3	4	13	1	4	0	0	3
	1200		867.2		1482.6	54.4	46.8	38.7	7.9		54		3.3		2	1	1	6	1	9	2	5	1
KALAT (North)																							
Kalat	0000	6616	797.1		1495.5	33.3	31.6	29.1	5.4		86		2.6		0	0	0	2	11	4	0	4	7
	0300		798.8	−0.4	1511.1	35.5	33.1	29.7	5.6	+0.8	78	+10	2.3	−0.5	2	0	0	3	8	4	0	2	9
	1200		797.3		1480.4	49.6	41.1	29.5	5.8		48		2.8		3	0	0	0	4	7	4	5	5
Nushki	0000	3416	(g) 901.4		(g) 1525.9	(g) 49.8	(g) 41.4	(g) 27.6	(g) 5.5		(g) 46		(g) 1.1		6	8	5	1	1	(g) 1	0	2	0
	0300		(g) 902.0		(g) 1528.3	(g) 49.3	(g) 40.9	(g) 27.5	(g) 5.4		(g) 44		(g) 1.1		4	15	1	1	1	(g) 1	0	1	0
	1200		(g) 900.6		(g) 1527.1	(g) 61.2	(g) 46.7	(g) 25.5	(g) 5.1		(g) 27		(g) 2.9		10	0	0	1	8	(g) 4	0	1	0
Dalbandin	0000	2785	916.8		1464.3	45.0	39.9	32.5	6.3		62		2.8		0	8	3	0	0	1	1	2	13
	0300		918.2	−1.0	1475.6	43.1	39.2	32.3	6.6	−0.7	70	+4	3.7	+1.1	2	9	2	0	0	2	2	0	11
	1200		915.7		1479.7	65.7	50.5	32.3	6.4		30		3.3		1	2	5	4	0	8	3	1	4
KALAT (South)																							
Panjgur	0000	3177	905.5		1482.9	45.3	40.3	32.5	6.5		63		1.8		9	2	0	0	9	1	1	6	0
	0300		906.2	+0.2	1491.1	46.4	39.5	27.1	5.5	−2.3	51	−21	2.6	+0.5	3	17	1	0	0	1	0	1	5
	1200		904.2		1492.0	66.5	52.3	36.2	7.7		35		2.0		4	1	0	0	0	19	1	3	0
AFGHANISTAN																							
Kabul (R)	0300	5955																					
	1200																						
Kandahar	0300	3462	898.3		1500.0	39.1	36.6	32.5	6.2		75		3.1		1	2	2	2	0	2	2	1	16
	1200		896.5		1497.0	54.8	47.0	37.8	7.9		54		3.0		2	3	2	0	1	6	4	2	8

(R) Register not received (g) Mean for 24 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF FEBRUARY, 1959.

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
CHITTAGONG DIVISION																					
Rangamati	80.9		85	13,22	55.4		46	2	4.86		3.33	15	4		x		4		21		
Cox's Bazar (P. T.)	79.0	—3.1	84	26	61.1	+1.6	54	2,4,5	1.28	+0.81	0.87	17	2	+1.1	*		3				
Chittagong (Patenga)	79.1		83	23,26	60.9		53	3	2.03		1.05	16	2		x		2		6		
Chittagong	80.7	—1.6	84	28	60.0	+1.3	53	2,3,4	4.59	+3.49	3.65	16	4	+2.7	3.6	—0.8	1				
Maijdee Court	79.5	—1.6	85	21	60.3	—1.6	53	4,9,10	2.45	+1.48	2.15	15	2	+0.3	x				4		
Comilla	80.5	—1.7	85	26	57.6	+0.1	52	3	2.65	+1.43	1.45	15	4	+2.1	x		2				
Brahmanbaria	79.8	—2.9	85	25,26	57.8	+2.3	52	1,3	0.56	0.47	0.30	25	2	+0.1	2.2		1				
Srimangal	80.1	—2.6	86	25	50.2	—1.7	42	3	1.77	—0.27	1.30	25	4	+1.3	x		3		3		
Sylhet (P.B.O.)	77.6		82	11	55.9		48	1	0.59		0.37	25	2		x		3		2		
DACCA DIVISION																					
Mymensingh	8.03	+0.7	88	25	56.0	—0.7	50	1	0.00	—0.86	0.00	0	0	—1.7	1.1	+0.1					
Narayanganj	8.10	—0.7	85	14,21	60.0	+1.0	52	3	0.88	—0.36	0.75	14	1	—0.9	2.1	+0.5			2		
Dacca (Tejgaon)	81.1		88	25,26	56.3		49	1,2,3	0.72		0.30	14	3		3.4		4		6		
Faridpur	80.2	+0.1	86	25	55.9	—0.3	49	2	0.55	—0.64	0.35	13	2	—0.1	2.0	+0.1	1				
Barisal	80.6	—1.3	89	23	61.1	—1.0	53	3	0.18	—0.76	0.18	15	1	—0.8	x				3		
RAJSHAHI DIVISION																					
Khulna	82.3	—0.7	90	25	60.1	+0.3	53	2,11	0.98	+0.05	0.98	15	1	—1.2	1.2	—0.9			5		
Satkhira	8.29	—1.6	92	25	58.3	0.0	50	2	0.57	—0.46	0.27	15	3	+1.2	*						
Jessore	82.3	+0.5	88	26	55.2	—0.3	46	10	0.39	—0.91	0.27	13	2	0.0	3.1	+1.8			4		
Pabna	81.7	—1.3	91	25	56.0	+0.2	50	1,2,3	00 0	—0.96	0.00	0	0	—1.9	x		1		1		
Serajganj	80.7		89	24	51.3		49	1,2,18	0.23	—0.51	0.12	16	2	+0.3	2.2		1				
Rajshahi									0.00	—0.69	0.00	0	0	—1.7							
Bogra (P.B.O.)	80.0	—0.3	88	25	55.6	+0.7	50	19	0.02	—0.77	0.01	16,17	0	—1.6	2.2	+1.5					
Dinajpur	79.0	—0.3	86	25	53.6	+0.3	49	2	0.00	—0.61	0.00	0	0	—1.3	0.7	—1.0					
Rangpur	77.4		83	25	53.9		50	2,18	0.00	—0.74	0.00	0	0	—1.3	1.9				2		

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF FEBRUARY, 1959.

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 (Jail Rd.)	68.4	—3.7	79	28	46.5	+2.0	40	7	0.62	—0.35	0.24	4	3	+0.9	2.5	+0.1	3	1	1	0	0
„ (Cantt.)	67.4	—	77	28	45.9	—	40	11	0.51	—	0.26	12	2	—	4.5	—	3	0	5	0	0
„ (Walton)	68.9	—	79	28	45.3	—	40	6,7	0.66	—	0.33	4	2	—	5.0	—	3	0	2	0	0
Sialkot	67.3	—2.1	76	28	45.6	+0.1	39	6	2.31	+0.64	0.75	12	7	+4.0	(d) 1.1	—0.1	0	0	0	0	0
RAWALPINDI																					
Jhelum	66.2	—	76	27,28	44.9	—	38	17	4.09	—	2.97	4	6	—	2.7	—	2	0	0	0	0
Chaklala	61.4	—	72	28	41.0	—	34	6	3.51	—	1.55	4	6	—	4.6	—	2	0	6	0	0
Rawalpindi	62.4	—2.8	73	28	40.4	—1.3	34	6,7,8	2.90	+0.42	1.03	4	6	+1.6	2.7	+0.9	0	0	0	0	0
Khushab	68.5	—2.8	80	28	41.6	—4.4	36	6,7	2.60	+1.68	1.07	4	4	+1.9	2.7	0.0	0	0	0	0	0
Sargodha (x)																					
MULTAN																					
Lyallpur	69.2	—2.1	80	28	43.5	—1.6	38	6,7	0.23	—0.34	0.16	4	1	—0.6	1.7	0.0	0	0	1	0	0
Montgomery	70.2	—2.3	81	28	44.7	—1.7	39	6	0.00	—0.50	0.60	—	0	—1.5	X		0	0	0	0	0
Multan (P.B.O.)	70.5	—	80	28	44.3	—	38	1	0.00	—	0.00	0	0	—	3.0		1	0	1	0	0
„ (Surface)	70.8	—2.0	81	28	48.2	+1.4	42	7,8	0.00	—0.38	0.00	0	0	—1.3	2.7	+1.4	1	0	0	0	0
BAHAWALPUR																					
Leiah (x)																					
Khanpur (Surface)																					
„ (P.B.O.)	74.0		85	27,28	43.8	—	36	6	0.25	—	0.14	19	1	—	3.8	—	0	0	0	0	0
Bahawalpur	73.1	—2.5	85	28	47.3	+0.4	39	6	0.03	—0.23	0.03	11	0	—0.8	2.2	0.0	0	0	0	0	0
Fort Abbas	74.5		87	28	*	*	*	*	0.33	—	0.33	19	1	—	3.0	—	0	0	0	0	0
PESHAWAR																					
Chakdara	59.5	—	72	28	37.4	—	33	6	6.54	—	2.04	4	8	—	3.1	—	0	0	0	0	0
Peshawar	62.6	—3.6	73	25,26,28	41.0	—3.0	35	17	3.06	+1.53	1.08	4	5	+1.7	(e) 2.1	+0.5	0	0	1	0	0
Risalpur	62.9	—	76	28	39.7	—	35	1,17,19	4.88	—	2.80	4	5	—	3.9	—	0	0	1	0	0
Haripur	62.5	—	75	28	41.4	—	35	5,6	2.65	—	0.80	4	5	—	X	—	0	0	0	0	0
Campbellpur	*	—	—	—	35.6	—	32	1	4.40	—	2.05	4	5	—	2.1	—	0	0	0	0	0
D. I. KHAN																					
Kohat	63.5	—	75	27,28	44.4	—	40	4 days	3.75	—	2.11	4	6	—	3.8	—	0	0	0	0	0
Bannu	63.8	—4.8	74	26,27	43.5	—1.7	39	19	1.69	+0.51	05.6	18	5	+1.9	1.8	—	0	0	0	0	0
D. I. Khan	*	*	*	*	44.9	0.0	40	14,19	1.38	+0.71	06.0	18	4	+2.3	*	—	0	0	0	0	0

(x) Data not available. (d) Mean for 27 days. (*) Data rejected. (e) Mean for 30 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF FEBRUARY, 1959.

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	78.5	+2.8	88	27	x		x		0.25	—0.62	0.25	18	1	—0.7	x		0	0	0	0	0
KALAT (NORTH)																					
Nokkundi	70.3	—2.4	84	28	44.0	—3.0	34	12,19	0.29	—0.11	0.19	25	2	+0.9	x		0	0	0	0	0
KALAT (SOUTH)																					
Turbat	*		*		*		x		0.23		0.23	28	1		x		1	0	0	0	0
Jiwani	76.1		80	26	61.1		52	4	0.15		0.13	22	3		7.0		1	0	0	0	0
Pasni	78.3	+1.4	87	28	57.8	+1.2	50	5	0.00	—1.41	Tr	18,22	0	—2.0	x		0	0	0	1	0
Ormara	77.0	+1.2	81	25	59.2	—1.0	48	5	0.25	—1.94	0.25	18	1	—2.3	6.9	+1.4	0	0	1	0	0
Lasbela	85.2	+2.8	94	21	53.3	+2.0	39	5	0.10	—0.78	0.10	18	1	—1.0	2.3	+0.5	1	0	0	0	0
FEDERAL CAPITAL AREA																					
Karachi (Manora)	77.7	+0.8	80	25,26	61.5	+0.5	52	5	0.00	—0.44	0.00		0	—1.0	x		0	0	0	0	0
Karachi (Mauripur)	78.5		85	26	60.0		50	1	0.46		0.46	16	1		x		0	0	0	0	0
Karachi (City)	79.9		85	24	58.3		47	6	0.62		0.62	15	1		4.4		0	0	3	0	0
Karachi (P.A.F.)	80.2		85	25,26	58.9		49	5	0.05		0.05	16	0		7.2		0	0	0	0	0
Karachi (Airport)	79.9		85	24	58.8		42	6	0.10		0.10	15	1		4.7		0	0	0	0	0
HYDERABAD																					
Badin	85.5	+3.1	95	27	53.7	—0.8	43	8	0.00	—0.38	0.00		0	—0.9	*		0	0	0	0	0
Nagarparkar	78.9		82	15,25,27	55.6		52	14,19	0.00		0.00		0		x		0	0	0	0	0
Umarkot	84.3		96	27	53.3		43	6,7	0.29		0.29	19	1		4.1		0	0	0	0	0
Chhor	83.6		94	27,28	51.3		40	1	0.05		0.05	19	0		3.6		0	0	1	0	0
Hyderabad	83.9	+2.7	96	27,28	56.6	+2.1	47	5	0.10	—0.14	0.10	18	1	+0.4	3.6	+0.1	0	0	0	0	0
KHAIRPUR																					
Padidan	78.2		89	27,28	46.6		37	1	0.05		0.05	18	0		3.5		0	0	0	0	0
Nawababah	79.8		93	28	50.8		38	5	0.42		0.42	19	1		3.4		0	0	0	0	0
Sukkur	76.1	—2.6	88	27	50.9	—1.1	42	1	0.48	+0.20	0.40	18	1	+0.2	2.6	0.0	0	0	0	0	0
Kashmore	77.6		81	16,17	38.0		33	8,9,11	*		*		*		*		0	0	0	0	0
Jacobabad	77.0	—0.1	87	27,28	50.1	—0.4	44	6	0.06	—0.27	0.04	18	0	—0.9	4.7	+1.5	0	0	0	0	0
JUNAGADH																					
Veraval (x)																					
AFGHANISTAN																					
Jalalabad (R)																					
ARABIA																					
Muscat	74.9	—0.9	80	16,18	66.0	—0.6	61	1,2	0.00	—0.71	0.00	—	0	—1.4	4.6	+0.9	0	0	0	0	0
HILL STATIONS																					
KASHMIR																					
Srinagar (x)																					
Gulmarg (x)																					
Gurez (x)																					
Sonemarg (x)																					
Dras (x)																					
Kargil (x)																					
Leh (x)																					
Skardu (x)																					

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF FEBRUARY, 1959.

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 Figures 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	34.1	—	43	24,28	16.2	—	8	2,6	0.02	—	0.02	19	—	—	3.6	—	0	0	0	0	0
Aliabad (x)																					
Gilgit (P.B.O.) (x)...																					
RAWALPINDI																					
Murree	41.8	—4.9	55	27	29.3	—1.8	20	5	6.37	+2.06	2.35	4	7	+0.6	3.9	—1.4	0	0	7	0	0
PESHAWAR																					
Drosh	47.6	—1.4	57	28	31.4	—2.2	26	16	4.27	+2.72	1.80	4	7	+3.3	4.0	+1.5	0	0	0	0	0
Cherat	50.6	—1.3	62	27,28	39·0	—1.7	30	4	12.60	+9.39	7.23	4	7	+2.3	10.0	+1.8	0	0	1	0	0
Kakul	53.2	—	65	28	37.0	—	32	4 days	6.13	—	1.89	4	7	—	(x)	—	2	1	1	0	0
Balakot	54.7	—	70	28	36.3	—	27	5	7.50	—	2.40	11	9	—	2.6	—	2	0	0	0	0
Landikotal	52.0	—	65	28	33.6	—	28	4 days	2.72	—	0.75	4	7	—	1.5	—	0	0	2	0	0
D. I. KHAN																					
Parachinar	49.5	—2.3	63	28	*	—	—	—	3.55	+0.92	1.00	4	7	+1.6	1.7	—0.3	0	0	0	0	0
Miranshah	58.0	—3.1	69	28	37.4	—4.1	31	5	2.33	+0.77	0.73	18	6	+1.9	2.4	—1.1	0	0	0	0	0
Wana	52.9	—5.2	66	28	30.4	—2.1	27	1	3.63	+2.15	0.85	10	7	+3.4	1.3	—	0	0	0	0	0
QUETTA																					
Fortsandeman	58.5	—0.8	70	2,28	35.4	0.0	29	5	2.09	+1.01	0.70	18	5	+1.7	2.5	+0.3	0	0	0	0	0
Hindubagh	50.7		62	2	28.9		12	19	4.96		1.82	18	6		6.7		0	0	0	0	0
Loralai	59.5		70	27,28	29.6		23	5,6	0.68	—0.39	0.50	18	2	—0.6	4.3		0	0	0	0	0
Harnai									0.55	—0.78	0.55	18	1	—1.4	(x)		0	0	0	0	0
Quetta (Samungli)	52.8		65	28	28.7		17	4	3.01		1.50	18	5		3.8		2	0	0	0	0
Quetta (Fruit Farm)	52.2		65	28	32.9		22	25	3.35		1.87	18	5		3.4	+0.8	0	1	0	0	0
Chaman	58.1	+0.8	70	28	35.5	—2.6	23	4	2.01	+0.29	0.51	10	5	+0.6	(x)	x	0	0	0	0	0
KALAT (NORTH)																					
Kalat	53.0	+0.2	65	2	29.3	—1.9	18	5	2.18	+0.79	0.89	23	4	+0.6	3.9	—0.5	0	0	0	0	0
Nushki	(g) 66.7		(x) 82	(x) 3	(x) 48.0		(x) 34	5	(g) 1.35		0.67	18	3		(x)		0	0	0	0	0
Dalbandin	67.0	—0.5	80	28	42.0	+2.4	26	5	0.91	—0.05	0.58	18	2	—0.2	3.1	—0.4	0	0	0	0	1
KALAT (SOUTH)																					
Panjgur	67.5	—0.5	77	27	39.3	—3.2	30	5,6	0.94	—0.02	0.68	18	2	+0.1	4.5	—0.2	0	0	0	0	0
AFGHANISTAN																					
Kabul (R)																					
Kandahar	56.7	—	69	28	34.1	—	27	4,12	2.08	—	0.61	10	6	—	2.1	—	5	0	0	0	0

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

REGD. No. S - 1452

PAKISTAN WEATHER REVIEW, 1959

MONTHLY WEATHER REPORT

March

(PUBLISHED BY THE AUTHORITY OF GOVERNMENT OF PAKISTAN)

Chief Features:

Fairly widespread to local rain/thundershowers over East Pakistan and violent squalls in Chittagong division between the 25th and the 29th as a result of the passage of two westerly low pressure waves.

2. Spell of wet weather practically over the whole of West Pakistan towards the end of the month under the influence of three western disturbances which moved in close succession.

West Pakistan

Three western disturbances influenced the weather over West Pakistan during the first week and caused local to fairly widespread rainfall practically throughout the northern half of the region and in Kalat division during the first three days and scattered thunderstorms or showers in Peshawar and Rawalpindi divisions on the 5th.

Thereafter except for short intervals from 13th to 14th and from 18th to 23rd, when the weather was dry, thunder rain activity continued to occur frequently in Peshawar, Rawalpindi and D. I. Khan divisions between the 10th and the 26th under the influence of five western disturbances which moved across the north of the region during the period. However, the activity was pronounced over these divisions only on the 10th and between the 25th and the 26th.

Towards the end of the month three western disturbances moved in close succession, the first two across the north of Afghanistan and the third across D. I. Khan division to Rawalpindi division where it lay on the last day. They caused local to fairly widespread rain or thundershowers in the northern parts and scattered to local thunder-rain activity elsewhere outside south Kalat and Hyderabad divisions and the Federal Capital Area between the 28th and the 31st.

Noteworthy rainfall amounts during the month were:—Parachinar 3" and Drosh 2" on the 2nd, Parachinar 1-1/2" on the 10th, Murree 1-1/2" on the 25th and Bannu 1" on the 26th.

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

The mean maximum temperature was above normal over the entire region. The mean minimum temperature was normal in Rawalpindi, Peshawar and Quetta divisions and in the Federal Capital Area and above normal elsewhere.

The mean relative humidity was in defect in Quetta and Kalat divisions, above normal in Khairpur Division and Federal Capital area and normal elsewhere.

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

East Pakistan

The weather during the first week was influenced by two westerly low pressure waves and a western disturbance which moved across West Bengal. They caused local to fairly widespread rain or thundershowers in Chittagong division and scattered in Dacca division between the 3rd and the 7th.

Thereafter, weather remained dry till about the middle of the 4th week when two westerly low pressure waves started moving in close succession across West Bengal. They moved away across East Pakistan by the 30th after causing fairly widespread to local rain/thundershowers in the region between the 25th and the 29th and scattered to local rain/thundershowers over there on the 30th and in Rajshahi division alone on the 24th. A few violent squalls damaging huts and uprooting trees were reported from Chittagong division by the newspapers.

On the last day of the month, a secondary western disturbance appeared over Madhya Pradash and caused local thundershowers over the region on the same day.

Outstanding rainfall amounts were:—Chittagong 4" on the 6th and 6" on the 7th; Comilla, Bogra and Sirajganj 3" each on the 27th; Chittagong 3" on the 28th and Srimangal 3" on the 31st.

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

The mean maximum and the mean minimum temperatures and the mean relative humidity were normal everywhere. The mean cloud amount was in defect in Dacca division and normal elsewhere.

Table I contains the divisional means of rainfall, temperature, humidity and the cloud amount for the 15 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 MARCH, 1959.

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	7.35	2.63	+4.72	+179	—0.8	+0.6	+0.3	+2	—0.3
Dacca	3.47	2.09	+1.38	+66	+0.7	—0.1	0	—1	—0.7
Rajshahi	2.71	1.32	+1.39	+105	0	—0.1	+0.9	+1	—0
Mean	4.37	1.95	2.42	+124	0.0	—0.3	+0.5	+1	—0.3
WEST PAKISTAN									
Kashmir (x)									
Lahore	0.66	1.15	—0.49	—43	+2.1	+3.6	+0.6	—3	—0.2
Rawalpindi	2.98	2.84	+0.14	+5	+2.7	+1.4	+0.4	+4	+0.4
Multan	0.51	0.48	+0.03	+6	+3.4	+2.7	—0.2	+2	—0.8
Bahawalpur	0.13	0.40	—0.27	—67	+8.3	+7.1	+1.8	—3	0
Peshawar	3.04	3.49	—0.45	—13	+3.6	+1.6	+0.7	+1	—0.5
D. I. Khan	1.14	1.75	—0.61	—35	+4.5	+2.4	+0.7	—3	+1.2
Quetta	0.68	1.18	—0.50	—42	+7.1	—1.7	+0.3	—7	—1.1
Kalat	0.32	0.56	—0.24	—43	+5.2	+2.7	—0.4	—6	—0.8
Federal Capital Area	0.00	0.29	—0.29	—100	+2.1	+1.4	+4.1	+7	—0.5
Hyderabad	0.00	0.17	—0.17	—100	+6.9	+2.5	+1.9	+5	—1.1
Khairpur	0.25	0.23	+0.02	+9	+4.7	+2.5	+1.9	+7	—0.1
Mean	0.71	0.98	—0.27	—28	+0.5	+2.5	+0.6	—2	—0.7
Junagadh (x)									

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1959.

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	1005.0		1012.5	63.5	63.1	62.7	19.1		97		6.1		6	0	0	1	(a) 7	1	1	0	14
	0300		1007.2	...	1014.5	72.8	67.2	63.5	20.5	...	74	...	2.1	...	5	3	0	2	(a) 14	0	3	1	2
	1200		1003.2		1010.4	80.7	70.0	63.4	20.7		57		2.0		6	0	0	0	(b) 10	2	3	0	8
Cox's Bazar (P.T.)	0300		1012.6	+1.2	1013.9	80.0	7.56	70.0	28.1	+3.4	80	+6	2.2	0.0	4	2	2	7	10	3	1	2	0
	1200		1010.0		1011.3	79.6	73.8	73.0	26.0		74		2.5		1	0	0	0	9	8	8	5	0
Chittagong (Patanga)	0000	20	1010.5		1011.2	69.4	67.9	67.1	22.3		92		2.5		0	8	4	9	1	0	0	0	9
	0300		1012.7		1013.5	76.9	70.9	68.1	23.2		73		2.3		2	11	4	9	3	0	0	0	2
	1200		1009.3		1009.9	79.8	73.6	70.3	26.0		74		1.9		0	1	0	3	9	11	5	2	0
Chittagong	0300		1012.2	+0.8	1013.8	77.3	71.2	68.1	23.2	—0.3	73	0	2.3	—0.2	2	7	5	5	10	1	0	0	1
	1200		1008.2		1009.8	79.1	72.3	68.9	23.6		70		1.6		2	1	1	0	5	11	8	2	1
Maijdee Court	0000	25	1010.7		1011.6	70.9	68.8	67.7	23.3		90		3.5		1	0	0	2	2	0	0	3	23
	0300		1012.2	+0.5	1013.1	77.3	72.6	70.3	25.2	—0.6	79	+3	2.4	—0.2	4	1	1	2	3	0	0	1	19
	1200		1008.5		1009.3	80.7	73.9	70.2	25.5		70		1.4		1	2	0	5	8	1	0	3	11
Comilla	0000	29	1009.8		1010.8	68.0	66.8	65.7	22.1		95		2.4		0	0	0	0	2	0	0	0	29
	0300		1011.8	+0.4	1012.8	76.0	71.7	69.4	24.3	—0.4	79	+7	2.4	—0.5	0	0	0	0	2	0	0	0	29
	1200		1008.4		1009.4	82.3	75.3	71.6	26.5		71		2.2		0	0	0	0	3	0	0	0	28
Brahmanbaria	0000	32	1010.0		1011.1	68.0	66.2	65.0	20.9		89		2.9		0	0	1	2	4	2	0	0	22
	0300		1011.8		1012.9	77.5	70.5	66.4	21.9	+0.8	69	+2	2.5		0	0	1	4	7	5	0	0	14
	1200		1007.7		1008.8	87.3	70.0	62.5	19.6		63		1.8		0	0	0	3	6	4	0	0	18
Srimangal	0000	69	1008.9		1011.5	62.6	61.3	60.3	18.6		91		2.1		0	0	0	0	2	1	0	1	27
	0300		1010.6	+0.3	1013.1	75.5	68.2	63.9	19.6	—1.2	66	—8	1.9	—0.5	0	0	0	4	0	3	0	0	24
	1200		1006.6		1009.1	78.6	70.1	65.4	21.6		64		2.7		0	1	1	0	1	2	0	0	26
Sylhet (P.B.O.)	0000	115	1006.8		1010.9	65.3	62.7	60.6	18.2		86		2.5		0	0	24	0	0	0	1	0	6
	0300		1008.9		1012.9	73.4	67.4	63.8	20.7		72		2.9		1	0	26	2	0	0	0	0	2
	1200		1004.8		1008.8	79.0	69.4	63.7	20.3		60		2.2		1	3	7	0	0	0	3	0	17
Dacca Division																							
Mymensingh	0000	62	1008.6		1010.8	65.9	62.9	60.8	18.3		84		2.5		0	0	0	2	0	0	1	0	28
	0300		1011.0	+0.6	1013.2	73.3	67.6	63.9	20.5	+0.5	74	+3	2.5	—0.9	0	0	0	21	0	0	7	0	3
	1200		1006.4		1008.6	84.6	69.2	57.6	17.6		43		2.2		0	0	1	5	0	0	7	0	18
Narayanganj	0000	26	1009.5		1010.4	69.8	67.8	66.6	22.5		90		3.3		0	0	5	3	4	1	3	0	15
	0300		1011.8	+0.3	1012.7	77.9	70.8	66.8	22.7	+0.3	67	—4	2.8	—0.5	0	0	5	6	6	6	3	1	4
	1200		1007.3		1008.2	84.3	70.1	61.0	18.7		61		1.8		0	1	2	3	21	1	0	0	3
Dacca (Tejgaon)	0000	27	1009.0		1010.0	67.0	65.6	64.5	20.8		92		2.8		1	2	4	3	2	6	1	0	12
	0300		1011.2		1012.1	77.3	70.3	65.7	21.9		69		2.9		1	1	4	6	4	8	3	2	2
	1200		1006.9		1007.8	84.0	68.8	58.0	17.4		44		3.3		1	1	2	4	8	8	1	4	2

(a) Observation for 30 days.
(b) Observation for 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1959.

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										
Dacca Division (*contd.*)																							
Faridpur	0000	46	1008.1		1009.7	66.6	64.6	63.2	20.2		89		2.8		2	0	1	6	9	1	0	2	10
	0300		1011.2	+0.9	1012.8	77.4	69.5	64.3	21.2	−0.8	67	−1	1.8	−0.4	3	0	0	2	7	2	7	0	10
	1200		1006.9		1008.5	85.6	70.7	63.7	19.1		45		1.7		0	1	0	5	10	2	0	0	13
Barisal	0000	11	1010.3		1010.7	71.6	70.0	68.6	24.8		93		1.0		1	2	0	1	1	0	1	1	24
	0300		1012.1	+0.2	1012.5	78.6	72.4	69.5	25.0	−0.1	74	−2	1.8	−1.0	0	1	3	3	9	0	5	1	9
	1200		1008.2		1008.6	84.1	72.8	66.0	22.1		55		1.4		2	0	6	2	8	0	0	1	12
Rajshahi Division																							
Khulna	0000	16	1009.9		1010.5	70.6	70.1	69.6	25.3		97		2.3		0	1	0	0	3	0	0	1	26
	0300		1012.2	+0.4	1012.8	79.3	73.7	70.6	25.9	+3.2	76	+10	2.3	−0.6	0	1	0	3	2	4	0	0	21
	1200		1008.0		1008.6	85.0	74.6	69.5	24.4		59		1.4		0	0	0	2	5	3	0	0	21
Satkhira	0000	16	1009.6		1010.3	68.4	65.2	67.8	23.2		98		2.5		0	0	0	0	2	1	0	0	28
	0300		1012.2	+0.8	1012.8	80.2	72.4	67.8	23.2	+0.3	66	−2	3.0	+1.1	1	0	1	0	3	8	2	0	16
	1200		1008.0		1008.6	86.0	71.8	63.2	20.5		64		1.4		0	0	1	0	5	5	0	0	20
Jessore	0000	26	1008.8		1009.7	67.5	65.3	63.6	20.5		89		3.2		4	1	3	3	9	4	1	0	6
	0300		1011.3	0.0	1012.2	78.1	70.4	65.4	22.1	−0.1	67	−2	2.3	−0.2	2	4	2	1	8	10	3	1	0
	1200		1007.9		1008.8	87.3	68.1	53.2	14.8		34		1.1		2	0	3	0	22	0	3	1	0
Pabna	0000	48	1006.7		1008.4	63.7	61.8	60.3	18.1		89		0.9		0	1	0	9	0	(b) 8	0	11	0
	0300		1009.7		1011.4	76.8	68.7	63.5	20.6	−0.2	65	−1	1.8		0	5	0	11	0	8	0	7	0
	1200		1005.2		1006.8	84.9	70.5	61.2	18.9		46		1.5		1	3	0	9	0	(a) 7	2	8	0
Serajganj	0000	49	1008.4		1010.2	64.8	63.4	61.0	19.3		92		2.0		0	0	0	0	2	0	1	0	28
	0300		1009.7		1011.4	77.0	69.9	65.4	21.9		69		2.5		0	4	3	4	2	2	1	2	13
	1200		1006.1		1007.8	82.4	72.0	66.1	21.6		58		1.8		0	0	1	0	3	0	0	0	27
Rajshahi	0300												1.5										
Bogra (P.B.O.)	0000	65	1007.8		1010.1	62.7	61.2	59.2	18.0		91		2.0		0	1	5	2	0	1	1	0	21
	0300		1010.0	+0.5	1012.2	75.1	66.9	61.5	19.0	+0.9	64	+1	2.1	+0.1	1	4	9	6	1	7	1	0	2
	1200		1005.6		1007.9	84.5	69.5	59.1	18.3		44		1.8		0	0	5	3	0	1	16	0	6
Dinajpur	0000	123	1005.5		1009.9	62.7	59.7	56.9	16.3		83		(b) 1.1		0	0	0	0	0	(b) 0	0	0	29
	0300		1007.7	+0.4	1012.0	75.0	65.4	57.5	17.2	+1.3	58	−1	1.5	−0.2	0	0	1	0	0	0	0	0	30
	1200		1003.5		1007.7	84.3	67.4	54.7	14.9		37		1.0		0	0	4	0	0	0	2	0	25
Rangpur	0000					62.4	59.9	57.9	16.2		85		1.6		2	4	5	0	1	0	0	1	18
	0300					73.0	64.8	60.8	17.5		63		1.5		1	10	7	6	1	5	1	0	0
	1200					81.2	67.5	57.9	16.9		47		1.3		1	1	5	2	1	2	5	0	14

(a) Observation for 30 days (b) Observation for 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1959.

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 (Jail Rd.)	0000	702	985.7		1010.8	59.0	54.6	50.6	12.6		74		1.7		2	2	0	1	0	0	0	2	24
	0300		987.3	—0.2	1012.2	64.8	56.7	49.6	12.1	+0.6	58	—1	2.0	—0.7	2	2	2	3	0	0	2	3	17
	1200		985.5		1009.6	81.0	63.0	47.7	11.6		33		2.7		2	3	0	3	0	1	7	12	3
,, (Cantt.)	0000	703	985.1		1010.4	59.7	54.7	50.1	12.3		71		2.2		4	8	0	0	0	1	4	11	2
	0300		986.7	—	1011.7	64.1	56.6	49.8	12.3	—	60	—	2.5	—	7	5	4	2	1	0	0	11	1
	1200		984.9		1009.2	80.7	63.2	48.6	11.9		34		2.9		2	4	1	4	0	0	4	16	0
,, (Walton)	0000	699																					
	0300		987.3	—	1012.1	63.4	57.2	51.8	13.2		66	—	2.0	—	2	1	2	4	0	0	0	13	9
	1200		985.0		1008.9	80.9	64.7	52.2	13.6	—	38		2.5		3	1	1	4	0	0	2	19	1
Sialkot	0000	830	981.1		1010.5	59.6	54.8	50.4	12.5		72		1.2		0	2	0	1	0	0	0	0	28
	0300		982.5	—0.6	1011.8	64.8	57.7	51.7	13.1	+0.6	63	—4	2.5	+0.3	0	8	0	2	0	0	0	2	19
	1200		980.3		1008.7	79.0	63.5	51.0	13.0		39		1.8		1	5	0	0	0	6	0	17	2
RAWALPINDI																							
Jhelum	0000	765	983.6		1011.0	57.3	53.3	49.5	12.1		75		2.4		4	0	0	1	0	0	3	6	17
	0300		985.0	—	1012.3	60.9	55.2	49.8	12.4	—	68	—	2.9	—	2	4	0	0	0	0	1	13	11
	1200		982.8		1009.2	78.5	62.7	49.4	12.3		38		2.9		0	3	1	4	2	0	5	11	5
Chaklala	0000	1667	953.5		1012.7	52.8	49.9	47.2	11.0		82		2.6		4	6	2	0	1	1	1	3	13
	0300		954.9	—	1013.8	56.3	52.3	48.9	11.7	—	76	—	3.7	—	2	1	1	1	0	1	6	7	12
	1200		953.1		1009.9	74.0	59.1	46.5	11.1		38		3.6		0	2	1	4	1	3	12	8	0
Rawalpindi	0000	1676	953.4		1012.9	54.0	50.9	48.1	11.4		81		*		1	0	1	0	0	3	0	2	24
	0300		(a) 955.0	+0.2	(a) 1013.8	(a) 59.6	(a) 54.2	(a) 49.5	(a) 11.1	+0.4	(a) 69	+10	3.2	+0.2	0	0	1	1	0	0	1	2	26
	1200		953.0		1010.2	73.1	59.2	48.3	11.6		41		3.5		1	1	1	1	2	1	13	2	9
Khushab	0000	616	(e) 989.3		(e) 1011.4	(d) 59.2	(d) 52.7	(d) 45.1	10.7		62		0.9		2	1	6	0	0	0	1	0	21
	0300		990.8	—0.4	1012.8	63.7	56.0	49.4	11.7	+1.0	59	+3	1.0	—1.8	2	2	7	0	0	0	3	0	17
	1200		(d) 988.5		(d) 1009.6	81.9	63.2	48.5	11.4		31		0.7		2	1	7	0	1	0	0	0	20
Sargodha (x)	0000	614																					
	0300																						
	1200																						
MULTAN																							
Lyallpur	0000	605	989.0		1010.7	58.1	54.0	50.6	12.5		76		1.2		0	7	1	1	0	0	0	6	16
	0300		990.4	—0.5	1012.1	58.9	54.3	51.8	12.3	+0.6	73	+10	1.9	—1.2	0	5	1	1	0	2	2	2	18
	1200		988.9		1009.6	82.2	63.9	50.7	12.1		32		1.9		1	5	1	0	0	2	3	11	8
Montgomery	0000	558	990.4		1010.3	58.5	54.0	49.7	12.3		73		1.6		1	1	1	7	1	4	2	7	7
	0300		992.4	—0.1	1012.3	60.4	55.3	50.8	12.7	+0.1	71	+4	1.3	—0.8	0	1	0	1	1	3	0	2	23
	1200		990.4		1009.8	84.0	64.7	49.0	12.1		30		0.6		0	1	0	1	0	6	0	2	21
Multan (P.B.O.)	0000	404	996.2		1010.8	60.6	54.9	49.7	12.2		67		1.2		5	3	2	2	2	0	0	2	15
	0300		998.2	—	1012.7	65.1	57.5	50.6	12.8	—	60	—	1.9	—	10	2	1	1	1	1	1	1	13
	1200		995.0		1008.8	86.1	64.0	44.9	10.5		24		2.5		0	4	4	4	9	3	0	0	7
Multan (Surface)	0300	413	998.0	+0.1	1012.7	66.2	57.4	49.3	12.1	—1.2	55	—7	1.9	—0.3	8	6	0	1	0	4	0	2	10
	1200		994.8		1008.8	86.6	64.1	44.8	10.3		24		2.4		3	2	2	1	6	0	0	1	16

(*) Data rejected. (x) Data not available. (a) Mean for 30 days. (d) Mean for 27 days. (e) Mean of 26 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1959.

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										
BAHAWALPUR																							
Leiah (x)	0000	490																					
	0300																						
	1200																						
Khanpur (Surface)	(o) 0300	297	1000.3	—1.8	1010.8	70.2	61.1	53.8	14.3	+3.6	57	+2	2.1	0.0	7	6	0	0	0	2	0	0	1
	(o) 1200		996.8		1006.8	95.1	68.7	48.8	12.0		21		2.7		3	3	1	0	0	2	4	1	2
,, (P.B.O.)	0000	290	999.5		1010.0	60.3	53.9	47.4	11.3		63		1.3		4	4	1	2	1	0	1	2	16
	0300		1001.6	...	1012.0	65.4	56.6	48.3	11.7	...	54	...	1.2	...	3	10	0	1	1	3	2	1	10
	1200		998.4		1008.3	89.7	64.8	42.9	9.7		20		1.8		3	5	1	0	0	6	6	0	10
Bahawalpur	0300	384	998.5	—0.4	1012.1	66.9	57.7	48.7	12.2	0.0	54	—7	1.9	0.0	4	5	1	3	1	1	1	3	12
	1200		995.8		1008.8	89.2	66.4	47.9	11.9		25		3.0		3	8	0	1	0	5	1	3	10
Fort Abbas	0000	475	*		*	(a) 58.7	(a) 53.5	(a) 48.3	(a) 11.7		(a) 69		(a) 0.3		0	8	0	3	(a) 0	16	0	3	0
	0300		a 994.9	...	(a) 1011.7	(a) 68.1	(a) 58.7	(a) 50.1	(a) 12.7	...	(a) 53	...	(a) 0.4	...	0	9	0	11	0	10	0	0	0
	1200		992.4		(a) 1008.7	(a) 87.6	(a) 66.6	(a) 50.1	(a) 12.8		(a) 29		(a) 0.4		0	11	0	3	0	(a) 14	0	0	0
PESHAWAR																							
Chakdara	0000	2197	935.5		1012.5	53.6	50.1	47.0	10.9		80		3.1		1	1	0	0	0	0	1	0	28
	0300		936.9	...	1014.3	53.0	49.5	46.5	10.7	...	78	...	3.6	...	4	7	1	0	0	0	0	0	19
	1200		933.9		1008.3	71.2	59.8	50.5	12.9		49		3.0		0	0	1	5	0	4	15	1	5
Peshawar	0000	1177	970.9		1012.9	54.8	51.1	47.6	11.1		76		2.6		0	0	1	5	9	7	2	1	6
	0300		972.4	—0.6	1014.3	57.6	53.3	48.8	12.0	+1.1	74	+5	3.3	—0.9	1	0	0	5	7	8	0	1	9
	1200		970.1		1010.6	73.9	59.4	45.5	10.9		38		3.4		2	4	0	6	6	2	1	5	5
Risalpur	0000	1009	976.7		1012.7	52.8	50.8	48.4	11.8		86		2.9		0	1	1	0	0	0	12	2	15
	0300		978.3	...	1014.3	57.4	53.8	50.7	12.5	...	77	...	3.4	...	2	2	2	0	1	3	9	6	6
	1200		975.6		1010.5	75.0	61.1	48.6	12.1		40		3.4		2	2	3	1	0	2	9	6	6
Haripur	0300	1757	(b) 951.4	...	(b) 1013.1	75.7	*	*	*	...	66	...	3.1	...	0	9	14	1	0	5	1	1	0
	1200		(a) 949.7		(a) 1009.7	71.9	*	*	*		*		2.7		0	6	5	2	0	16	0	2	0
Campbellpur	0300	1175																					
	1200																						
D. I. KHAN																							
Kohat	0000	1667	954.9		1013.4	59.8	53.2	46.9	11.2		65		2.4		0	1	0	0	0	0	0	24	6
	0300		956.2	...	1014.6	61.7	53.8	46.6	10.9	...	58	...	2.8	...	4	3	0	0	0	1	0	14	9
	1200		954.3		1011.1	74.7	60.0	47.8	11.7		41		3.1		3	11	4	2	1	0	0	1	9
Bannu	0000	1263	967.0		1011.8	58.6	53.6	49.2	11.8		70		1.2		3	0	0	0	0	0	0	1	27
	0300		968.2	...	1013.0	60.3	54.4	48.0	11.9	+2.1	65	+10	1.1	—1.3	0	1	0	1	0	0	4	9	16
	1200		965.2		1008.4	77.3	63.1	51.7	13.4		41		2.4		0	1	4	10	5	2	1	0	8
D. I. Khan	0000	570	*		*	60.4	54.5	49.5	11.8		66		0.6										
	0300		991.5	—1.3	1011.9	63.3	56.7	51.4	12.8	+0.7	65	+2	1.6	—1.0									
	1200		(a) 988.9		(a) 1008.4	83.4	65.1	51.2	12.9		32		1.4										

(o) Mean for 16 days. (a) Mean for 30 days.
(*) Data rejected. (b) Mean for 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1959.

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 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	*		*	65.3	53.6	40.9	8.8		41		0.3		0	0	0	0	0	0	0	0	31
	0300		*		*	62.0	51.5	40.1	8.3	+0.1	43	+4	0.5	—1.3	0	0	0	0	0	0	0	0	31
	1200		*		*	90.7	69.0	53.8	14.5		30		0.3		0	0	0	0	0	0	0	1	30
KALAT (NORTH)																							
Nokkundi	0000	2229	935.1		1012.4	60.4	47.8	32.6	6.3		35		0.0		9	10	0	1	1	1	2	7	0
	0300		937.0		1014.1	61.7	49.5	33.8	7.1	—1.3	38	—8	0.0	—2.3	9	7	3	3	1	1	0	7	0
	1200		934.4		1008.0	83.7	58.1	30.6	6.2		16		0.0		3	0	2	7	4	9	2	4	0
KALAT (SOUTH)																							
Turbat	0000	510	*		*	68.0	61.5	56.3	15.7		67		0.2		0	3	10	1	2	8	5	2	0
	0300		*		*	68.2	61.5	57.0	15.6		66		0.8		0	6	10	8	1	2	3	0	1
	1200		*		*	93.0	73.5	61.3	19.3		37		0.5		0	3	2	3	2	8	10	3	0
Jiwani	0000	185	1005.5		1012.0	69.2	65.7	63.7	20.0		82		0.8		3	0	1	3	2	11	8	0	2
	0300		1007.0		1013.6	68.9	65.3	62.6	19.7		82		1.2		3	1	0	1	1	10	6	0	9
	1200		1005.2		1011.6	80.6	66.5	57.1	15.9		45		1.3		0	0	1	2	16	12	0	0	0
Pasni	0000	28	1010.4		1011.4	66.4	64.5	62.1	19.9		90		0.7		1	0	0	0	1	1	14	10	4
	0300		1012.1	+0.1	1013.1	67.0	63.5	60.0	18.4	+0.9	81	+2	1.9	+0.5	2	0	0	0	1	1	8	6	13
	1200		1009.9		1010.9	82.5	72.6	67.0	22.9		60		1.9		0	0	0	0	3	21	5	1	1
Ormara	0000	15	1010.6		1011.1	69.9	65.8	63.3	19.8		79		0.9		0	0	0	0	0	3	15	1	12
	0300		1012.3		1012.7	71.3	66.0	61.9	19.4	—0.1	74	—9	0.9	—1.3	0	1	3	0	0	4	8	4	11
	1200		1009.8		1010.2	83.1	68.1	57.7	16.7		43		0.4		0	0	0	0	3	8	20	0	0
Lasbela	0000	292	*		*	68.2	59.1	50.4	13.0		55		0.4		3	1	1	0	1	0	0	0	25
	0300		1002.3	—0.2	1012.4	72.5	64.0	57.2	16.5	+0.6	61	—8	0.3	—1.5	2	1	3	0	2	0	2	1	20
	1200		999.9		1009.8	96.7	71.7	53.8	15.2		26		0.4		0	0	0	12	1	15	1	0	2
FEDERAL CAPITAL AREA																							
Karachi (Manora)	0000	13	1010.4		1010.9	72.4	69.6	68.0	23.7		86		0.4		1	0	0	0	0	5	10	4	11
	0300		1012.1	—0.1	1012.6	73.3	69.9	67.9	23.5	+4.1	83	+7	1.5	—0.5	1	2	1	0	0	3	9	3	12
	1200		1009.7		1010.2	79.5	74.3	71.7	26.6		77		0.8		0	0	0	0	1	8	19	3	0
Karachi (Mauripur)	0000	52	1009.0		1010.7	70.5	66.3	63.5	20.2		79		0.4		2	0	0	0	0	3	15	4	7
	0300		1010.5		1012.3	70.7	67.4	65.2	21.4		84		1.5		1	2	1	0	0	1	9	8	9
	1200		1008.3		1010.1	83.7	70.3	61.3	19.2		48		0.5		1	0	0	0	0	21	8	1	0
Karachi (City)	0300	20	1011.5		1012.4	71.0	65.3	61.0	18.8		72		0.6		5	0	2	0	1	2	14	7	0
	1200		1009.1		1010.1	82.1	71.2	65.0	21.1		56		0.6		0	0	0	0	1	17	12	1	0
Karachi (P.A.F.)	0000	38	1009.8		1011.2	69.4	65.9	63.5	20.2		82		0.3		0	1	0	0	0	3	11	4	12
	0300		1011.1		1012.7	70.9	67.0	64.0	20.8		81		1.0		2	0	1	0	0	2	11	0	15
	1200		1009.0		1010.3	85.6	71.9	63.3	20.5		49		0.4		0	0	0	0	0	28	3	0	0
Karachi (Airport)	0000	73	1008.1		1010.7	68.6	65.0	60.0	19.5		82		0.3		0	1	0	0	0	1	8	1	20
	0300		1010.2		1012.9	70.1	64.4	59.8	18.1		72		1.5		1	0	1	1	0	2	8	1	17
	1200		1007.7		1010.2	83.5	67.0	51.1	15.1		38		0.8		0	0	0	0	1	23	7	0	0
HYDERABAD																							
Badin	0000	31	1009.4		1010.5	68.9	65.7	63.4	20.2		84		*		0	0	0	0	0	27	0	2	2
	0300		1010.2	—0.8	1011.3	71.6	65.8	62.0	19.0	+2.1	72	+6	*		1	0	0	0	0	25	0	2	3
	1200		1008.9		1009.9	96.2	67.9	44.5	10.5		18		*		9	0	0	0	0	21	0	0	1
Nagarparkar	0000	178	*		*	*	*	*	*		*		*		0	0	0	0	0	15	0	3	13
	0300		*		*	75.3	60.4	47.1	11.2		37		*		0	0	0	0	0	19	0	4	8
	1200		*		*	98.1	76.0	62.2	20.6		33		*		0	0	0	0	0	20	0	2	9

(*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1959.

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 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	1007.7		1009.6	66.2	60.1	54.5	15.0		68		0.1		2	2	0	1	15	8	0	1	2
	0300		1009.7		1011.6	69.1	62.7	57.6	16.6		68		1.3		0	2	0	0	12	7	0	0	10
	1200		1006.2		1008.1	96.8	70.3	51.1	13.3		22		0.7		1	1	0	0	1	10	10	6	2
Chhor	0000	19	1009.2		1009.9	(b) 62.3	(b) 57.7	53.5	14.2		74		0.4		16	1	0	0	0	10	4	0	0
	0300		1011.4		1012.1	68.5	61.4	55.5	15.4		65		0.7		9	0	1	0	0	18	3	0	0
	1200		1007.6		1008·2	96.4	67.3	43.2	9.7		16		0.6		2	0	0	0	0	17	10	2	0
Hyderabad	0000	98	1006.6		1010.1	68.3	60.6	53.9	14.6		62		0.1		1	0	0	0	0	8	0	0	22
	0300		1008.4	—0.2	1011.8	70.3	61.5	54.8	14.7	+1.7	58	+3	0.3	—1.1	1	0	0	0	1	6	0	0	23
	1200		1005.4		1008.8	96.1	68.4	46.1	11.2		19		0.5		0	0	0	1	3	12	2	0	13
KHAIRPUR																							
Padidan	0000	153	1004.2		1009.6	63.2	55.3	48.1	11.4		57		0.5		2	2	0	4	5	2	2	1	13
	0300		1006.2		1011.6	66.3	56.9	47.9	11.6		52		0.8		1	3	2	5	0	6	3	3	8
	1200		1003.2		1008.3	93.9	65.8	40.6	9.0		17		0.9		2	4	0	2	4	7	7	3	2
Nawabshah	0000	124	1005.8		1010.3	63.6	55.8	48.7	11.7		59		0.4		1	1	0	0	3	3	0	4	19
	0300		1007.8		1012.3	67.3	58.5	51.0	12.8		56		1.2		0	0	1	0	4	3	2	2	19
	1200		1004.7		1009.0	94.8	66.9	43.2	9.9		18		1.2		2	1	0	1	4	8	5	3	7
Sukkur	0300	221	1003.6	—0.6	1011.4	67.5	58.3	50.5	12.5	+0.6	54	+1	1.6	+0.3	2	3	3	8	2	2	0	1	10
	1200		1000.5		1008.0	90.6	66.6	47.7	11.5		24		2.2		2	3	4	1	3	9	5	3	1
Kashmore	0000	255	*		*	*	*	*	*		*				*								
	0300		*		*	*	*	*	*		*				*								
	1200		*		*	*	*	*	*		*				*								
Jacobabad	0000	183	1003.2		1009.7	65.5	59.2	54.2	14.3		66		1.0		5	5	10	4	2	1	0	0	4
	0300		1005.2	—0.2	1011.7	67.5	61.3	55.7	15.7	+3.2	68	+13	1.2	—0.6	1	2	6	7	1	2	1	4	7
	1200		1001.9		1008.1	92.5	77.4	69.2	25.2		49		1.8		0	0	0	11	10	2	1	5	2
JUNAGADH																							
Veraval	0300	26	1012.4		g 1013.3 b	g 73.5	g 64.1 b	g 58.1	g 16.1 b		57		x		12	5	0	0	g 0	0	0 b	4	0
	1200		1010.0		1010.9	82.4	75.1	71.7	26.5		70		x		1	0	0	0	1	1	10	10	0
AFGHANISTAN																							
Jalalabad (x)	0300	1950																					
	1200																						
ARABIA																							
Muscat	0300	20	1014.1		1014.8	73.4	66.3	61.7	18.9		67		1.9	+0.1	2	0	0	0	0	0	7	3	19
	1200		1011.9		1012.6	76.7	69.7	65.8	21.7		69		1.9		3	0	7	0	0	0	1	10	10
HILL STATIONS: KASHMIR																							
Srinagar (x)	0000	5205																					
	0300																						
	1200																						

(g) Mean for 21 days (b) Mean for 22 days. (x) Data not available. (a) Mean for 30 days. (*) Data rejected. (b) Mean for 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1959.

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										
Gulmarg (x)	0300	8709																					
	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	0000	10190	*		*	25.6	*	*		—	*		4.5		0	0	0	0	0	0	0	0	31
	0300		695.9	—	3056.1	29.7	*	*	*	—	*	...	4.9	...	0	0	1	0	0	0	0	0	30
	1200		693.5		3027.1	40.5	*	*	*	—	*		5.6		0	0	19	4	0	0	4	0	4
Aliabad (x)	0300	6850																					
	1200																						
Gilgit (Surface) (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	(x) 0000	7113																					
	0300		784.3	+0.4	1499.0	46.7	39.1	28.2	5.4	—0.2	51	—2	4.1	+0.5	1	5	6	8	0	0	2	4	5
	1200		784.0		1469.1	51.9	43.9	34.6	7.0		53		4.2		1	3	1	7	0	7	3	7	2
PESHAWAR																							
Drosh	0000	4806	855.3		1515.1	44.8	39.9	32.0	6.5		64		3.5		0	0	5	4	0	0	0	0	22
	0300		856.1	+0.6	1522.9	44.3	39.8	32.8	6.5	+0.2	65	—2	4.3	+0.5	0	0	3	0	0	0	0	0	28
	1200		853.0		1493.9	58.0	46.3	29.5	6.0		36		4.5		0	11	2	8	0	5	0	0	5
Cherat	(x) 0000	4272																					
	0300		*	—	*	54.6	*	*	*	—	*	—	1.9	—1.2	14	3	0	4	6	1	0	3	0
	1200		*		*	62.1	*	*	*		*		2.0		10	7	0	9	1	0	0	4	0
Kakul	0000	4214	871.3		1487.5	50.9	44.9	37.4	7.8		61		8.4		13	5	3	4	0	1	0	5	0
	0300		872.4	—	1499.0	53.2	46.3	38.0	8.0	—	58	—	13.1	—	11	4	2	4	1	0	0	9	0
	1200		871.3		1492.4	62.6	51.9	40.8	8.9		46		12.2		2	1	0	4	5	3	4	12	0
Balakot	0000	3226	x		x	52.2	49.2	45.5	10.7		80		3.2		6	0	0	0	1	1	1	6	16
	0300		x	—	x	51.8	48.4	44.0	10.2	—	77	—	4.5		5	0	1	1	2	1	1	4	16
	1200		x		x	65.3	59.2	54.4	14.7		69		5.0		5	1	0	0	1	2	1	3	18
Landikotal	0000	3503	893.8		1481.9	50.0	45.0	38.6	8.2		67		2.5		0	1	0	0	0	0	0	4	26
	0300		895.1	—	1495.7	53.3	47.1	39.3	8.6	—	62	—	3.0	—	0	1	0	0	0	6	0	0	24
	1200		893.1		1488.5	65.5	52.3	37.7	8.1		37		3.1		1	4	0	3	3	11	1	6	2

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1959.

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										
D. I. KHAN																							
Parachinar (R)	0000	5673																					
	0300																						
	0000																						
Miranshah	0000	3026	907.6		1466.2	54.6	46.3	36.0	7.4		51		1.3		0	6	0	0	0	1	0	0	24
	0300		910.4	...	1493.9	57.7	48.2	38.1	7.7	+0.3	48	—11	1.1	—1.4	0	2	0	0	0	1	0	3	25
	1200		907.9		1486.8	70.7	55.2	40.8	8.7		34		2.2		0	13	0	1	0	1	0	1	15
Wana	0300	4503	861.4	...	1482.0	48.1	41.5	34.7	6.2	—0.5	54	—13	1.4	—1.2	0	0	1	0	3	5	1	0	21
	1200		860.0		1473.0	67.4	50.4	29.1	5.7		24		2.8		1	1	5	6	4	7	4	2	1
QUETTA																							
Fort Sandeman	0300	4614	860.8	+1.2	1510.0	51.4	43.9	34.3	6.8	+0.3	52	—15	1.8	—0.5	2	2	3	6	2	2	3	1	10
	1200		858.4		1491.3	72.9	53.9	33.0	6.6		24		4.1		1	2	1	0	4	9	6	5	3
Hindubagh	0000	5909	820.7		1510.9	45.5	38.9	30.0	5.6		54		0.4		1	0	0	0	0	1	20	2	7
	0300		821.4		1515.9	46.8	40.7	31.7	6.4		60		0.9		0	0	0	0	0	0	20	2	9
	1200		820.0		1490.9	65.4	51.0	37.9	7.6		35		2.3		0	0	0	0	0	2	29	0	0
Loralai	0000	4699	855.9		1489.0	48.5	41.3	29.6	5.9		52		1.4		0	0	0	0	0	7	16	3	5
	0300		856.7		1495.7	47.3	40.6	30.2	5.9		53		1.7		1	0	0	0	0	1	14	11	4
	1200		854.6		1477.5	72.4	53.7	32.5	6.1		24		3.2		0	0	1	7	5	9	3	3	3
Harnai	0300	2861											0.9		0	0	0	0	0	0	31	0	0
	1200												1.1		0	0	23	0	5	0	3	0	0
Samungli	0000	5213	841.8		1506.2	43.1	39.4	34.7	6.9		73		1.4		0	0	1	11	0	0	0	0	19
	0300		842.6		1513.7	44.7	40.4	35.3	7.0		70		2.2		0	0	4	9	1	1	0	1	15
	1200		840.3		1487.3	67.2	52.3	36.8	8.1		35		3.2		1	0	1	2	0	4	15	5	3

(R) Register not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1959.

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 (Frint Farma)	0300	5490	833.4	−0.3	1506.5	50.7	43.6	36.5	7.1	+0.6	57	−10	2.2	−0.5	1	1	0	1	4	0	0	0	24
	1200		831.9		1486.6	64.8	51.5	38.5	8.3		40		3.8		4	0	0	0	3	4	6	8	6
Chaman	0000	4311	870.7		1512.2	54.1	47.2	37.2	8.3		58		0.9		2	10	4	10	3	1	0	0	1
	0300		871.7	+2.3	1522.3	55.0	45.9	34.6	6.9	+0.2	46	−8	1.0	−2.0	2	5	5	13	4	0	0	0	2
	1200		870.5		1517.2	70.5	55.0	39.2	8.6		34		1.5		2	2	0	0	7	10	1	6	3
KALAT (NORTH)																							
Kalat	0000	6616	800.6		1524.7	39.7	35.4	29.4	5.5		67		1.0		1	0	0	2	24	3	0	0	1
	0300		801.9	+2.2	1531.8	46.9	40.2	30.9	6.1	+0.2	56	−3	1.6	−0.6	0	0	0	3	14	2	0	1	11
	1200		800.3		1502.4	62.7	48.5	34.2	6.5		34	-	2.5		4	0	0	0	0	7	9	9	2
Nushki (R)	0000	3416																					
	0300																						
	1200																						
Dalbandin	0000	2785	917.4		1482.2	55.2	46.7	36.7	7.5		50		1.7		2	8	3	1	2	5	1	0	9
	0300		918.9	+0.7	1495.6	55.2	46.6	36.2	7.4	−0.6	49	−4	2.8	+0.5	1	9	3	2	2	0	1	2	11
	1200		916.2		1502.6	80.4	57.8	35.5	7.2		20		3.2		0	2	4	2	3	14	3	1	2
KALAT (SOUTH)																							
Panjgur	0000	3177	905.7		1495.0	55.1	47.5	37.5	8.2		55		0.9		0	0	0	0	2	1	0	0	28
	0300		907.0	+1.9	1507.1	55.8	47.2	35.3	7.8	−0.9	50	−13	0.9	−0.6	1	1	0	0	0	0	0	0	29
	1200		904.8		1510.0	79.5	56.8	32.4	6.3		21		0.9		0	0	0	0	0	3	1	0	27
AFGHANISTAN																							
Kabul (R)	0300	5955																					
	1200																						
Kandahar	0300	3462	899.5	...	1521.0	50.9	46.6	43.5	9.1	—	72	—	2.8	—	0	1	3	5	1	0	1	0	20
	1200		897.3		1518.8	70.3	55.3	41.1	8.9		35		2.7		0	1	0	1	4	10	6	2	7

(R) Register not received.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MARCH, 1959.

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	87.1		95	21,22,23	62.5		52	10	5.80		1.69	5	7		x		3		18		
Cox's Bazar (P. T.)	86.0	—0.3	93	17,22	68.1	+3.7	63	10,11	2.11	+0.62	1.43	28	3	+1.5	*		5				
Chittagong (Patenga)	84.5		92	22	68.2		64	1	13.39		5.22	6	7		x		7		1		
Chittagong	85.5	—1.6	94	21,22	67.4	+0.2	60	27	14.81	+12.35	5.96	7	6	—3.5	4.3	—1.1	6		3		
Maijdi Court	86.6	0.0	95	22	68.5	—2.0	63	26,27	8.07	—5.70	2.40	29	7	+3.9	x				4		
Comilla	88.9	—0.8	97	21,22,23	67.5	+0.4	60	1	6.03	+3.02	3.18	27	6	+2.5	x		3		2		
Brahmanbaria	88.9	—1.1	98	22,23	66.2	+2.2	60	9,10	5.15	+2.12	1.56	27	8	+4.3	3.0		5				
Srimangal	89.3	—0.9	98	22	60.4	—1.1	51	17	7.90	+4.51	2.72	31	8	+3.1	x		11				
Sylhet (P.B.O.)	86.0		96	22,23	64.3		57	1	5.78		3.55	4	5		x		10		1		
DACCA DIVISION																					
Mymensingh	89.5	+1.5	100	23	63.7	—1.0	58	8	6.23	+4.39	1.93	30	6	+3.0	1.7	+0.1	8				
Narayanganj	90.5	+0.7	99	22	68.8	+0.7	x		2.14	—0.25	1.13	25	4	+0.8	2.9	+0.1			4		
Dacca (Tejgaon)	91.0		100	22,23	66.5		56	8	3.10		2.01	27	4		5.5		5		13		
Faridpur	90.0	+0.7	98	20,21,22	64.5	—1.3	52	8	2.40	+0.30	1.02	26	4	+1.1	2.6	—0.7	2		3		
Barisal	89.4	—0.2	98	22	69.9	+1.1	62	2	3.11	+1.06	2.03	26	5	+1.9	*		3		8		
RAJSHAHI DIVISION																					
Khulna	91.1	—0.5	98	22	69.8	+1.4	60	8	1.82	+0.18	1.67	26	2	—0.3	2.0	—1.0			3		
Satkhira	93.7	0.0	100	22,23	68.5	+0.6	57	9	1.66	—0.18	0.75	26	3	+0.5	1.9	—0.2			7		
Jessore	92.7	+0.8	101	22	64.8	0.0	52	8,9	1.21	—0.72	0.49	28	3	+0.1	3.8	+2.0			7		
Pabna	92.0	—0.3	101	22	63.1	—0.5	54	9	1.37	+0.16	1.27	26	1	—0.9	x		5				
Serajganj	90.9		99	21,23	62.5		56	9	9.57	+8.29	3.48	27	5	+2.9	2.4		5		8		
Rajshahi									1.40	+0.23	0.70	25,31	2	+0.2							
Bogra (P.B.O.)	89.9	—0.8	100	23	61.9	—1.1	55	8	4.66	+3.52	2.64	27	4	+2.0	2.4	+0.6	6				
Dinajpur	89.8	+0.6	99	23	60.1	—0.8	55	7,8	0.61	—0.08	0.25	25	3	+1.6	1.4	—1.0	1				
Rangpur	87.8		97	22,23	61.3		55	7,8	2.10	+1.10	0.82	28	5	+3.4	2.3				2		

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MARCH, 1959.

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 (Jail Road)	83.9	+1.3	95	24	57.5	+4.3	48	7	0.56	—0.23	0.47	31	1	—0.9	2.4	+0.5	3	0	0	1	0
,, (Cantt.)	83.3	—	95	24	57.1	—	47	7	0.72	—	0.66	31	1	—	4.3	—	4	0	1	0	0
,, (Walton)	84.5	—	96	24	56.1	—	45	7	0.94	—	0.49	31	1	—	5.0	—	3	0	0	0	1
Sialkot	83.0	+2.9	94	23,24	57.1	+2.9	42	6	0.76	—0.75	0.67	31	1	—2.2	2.1	+0.6	0	0	0	0	1
RAWALPINDI																					
Jhelum	82.1	—	94	23	54.7	—	46	5	0.82	—	0.34	3,31	2	—	2.7	—	5	0	0	0	2
Chaklala	77.3	—	89	23,24	50.5	—	43	4 days	1.76	—	0.94	25	4	—	5.0	—	7	1	0	0	1
Rawalpindi	77.7	+2.6	90	22	52.1	+1.7	44	7,8	1.95	—0.72	0.95	25	5	+0.3	5.5	+3.2	3	0	0	0	0
Khushab	86.3	+5.0	98	23	54.2	—1.6	44	7	0.32	—0.72	0.22	3	2	—0.5	2.6	—1.1	2	0	0	0	0
Sargodha (x)																					
MULTAN																					
Lyallpur	84.6	+3.0	96	23,24	55.7	+2.1	47	4,6,7	1.02	+0.46	0.86	31	1	—0.6	2.2	+0.3	5	0	0	0	0
Montgomery	85.9	+2.1	98	25	57.7	+1.7	48	6	0.00	—0.42	0.00	—	0	—1.3	(a) 0	—2.1	0	0	0	0	0
Multan (P.B.O.)	88.4	—	101	25	57.5	—	46	11	0.00	—	0.00	—	0		2.7		1	0	0	0	2
,, (Surface)	89.1	+5.2	102	25	61.5	+4.3	51	11	0.00	—0.40	0.00	—	0	—1.0	2.5	+1.0	1	0	0	0	2
BAHAWALPUR																					
Leiah (x)																					
Khanpur (Surface)	97.4	+10.5	105	22,25	63.4	+9.2	51	16	x		x		x		x		1	0	0	0	0
,, (P.B.O.)	91.9	—	103	25	57.3	—	47	6	0.15	—	0.15	30	1	—	3.5	—	1	0	0	1	0
Bahawalpur	91.6	+6.0	105	25	60.1	+4.9	48	11	0.13	—0.27	0.13	29	1	+0.1	1.2	—1.4	0	0	0	0	0
Fort Abbas	91.5	—	105	24,25	*	—	*	—	0.00	—	0.00	—	0	—	4.3	—	0	0	0	0	0
PESHAWAR																					
Chakdara	72.3		86	23	47.8		41	5,6	2.75		0.75	2	5		4.2		2	0	0	0	0
Peshawar	76.8	+2.0	87	22,23	52.4	0.0	44	4,15	1.66	—0.78	0.71	10	4	—0.6	(b) 2.1	+0.3	6	0	0	0	0
Risalpur	78.2	—	89	23	49.9	—	41	7	0.99	—	0.48	10	4	—	3.3	—	5	0	0	0	0
Haripur	78.6	—	92	23	50.7	—	45	8,31	1.97	—	0.84	29	5	—	(a) 4.9	—	3	0	0	0	3
Campbellpur																					
D. I. KHAN																					
Kohat	78.3	—	89	23	57.6	—	50	5	1.30	—	0.52	10	5	—	4.2	—	10	0	0	0	0
Bannu	79.4	+1.4	91	23	55.8	+2.9	48	4 days	2.08	+0.50	1.24	26	4	+0.3	1.1	—	3	0	0	0	0
D. I. Khan	*		*	5	56.9	+1.9	47	6	0.42	—0.54	0.24	29	1	—1.3	x	—	2	0	0	0	0

(o) Observation for 16 days. (x) Data not available. (*) Data rejected. (b) Mean for 30 days. (R) Register not received. (a) Mean for 30 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITRATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MARCH, 1959.

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	95.4	+9.4	106	25	48.8	—10.6	33	1	0.25	—0.07	0.25	29	1	+0.1	1.3	—1.8	0	0	0	0	0
KALAT (NORTH)																					
Nokkundi	85.8	-7.7	99	25	56.1	+4.3	30	2	0.12	0.00	0.00	—	0	—0.6	x	x	0	0	0	0	0
KALAT (SOUTH)																					
Turbat	93.7		105	27	63.2		54	3,4,5	1.85		0.99	1	2		x	x	2	0	1	0	0
Jiwani	83.6		92	18,31	65.9		54	2,3	1.36		0.95	1	2		7.1		1	0	3	0	0
Pasni	87.1	+2.5	93	24,30	63.2	+1.3	54	3,4	0.68	+0.17	0.68	1	1	+0.3	x	x	0	0	3	0	0
Ormara	85.4	+3.5	99	18	66.9	+1.5	58	12	0.00	—0.23	0.00	—	0	—0.7	9.8	+2.1	0	0	3	0	0
Lasbela	99.0	+10.1	107	21,26	61.6	+4.6	54	3	0.00	—1.03	0.00	—	0	—1.4	2.4	0.0	0	0	0	0	0
FEDERAL CAPITAL AREA																					
Karachi (Manora)	83.9	+2.1	96	18	69.5	+1.4	65	3,5	0.00	—0.29	0.00	—	0	—0.6	x	x	0	0	0	0	0
Karachi (Mauripur)	88.9		99	21	67.9		62	12,13	0.00		0.00	—	0		x		0	0	2	0	0
Karachi (City)	88.9		98	19,22	67.0		56	14	0.00		0.00	—	0		5.2		0	0	0	0	0
Karachi (P.A.F.)	91.1		101	22	67.2		62	5 days	0.00		0.00	—	0		8.6		0	0	3	0	0
Karachi (Airport)	91.5		101	20,21	66.5		59	6,12	0.00		0.00	—	0		5.9		0	0	1	0	0
HYDERABAD																					
Badin	99.1	+7.4	110	23	64.4	+2.7	56	4,14	0.00	—0.15	0.00	—	0	—0.2	1.9		0	0	0	0	0
Nagarparkar	99.6		109	24,25	69.6		65	4,5	0.00		0.00	—	0		3.2		0	0	0	0	0
Umarkot	99.4		109	22,23	65.6		53	3	0.00		0.00	—	0		4.2		0	0	1	0	0
Chhor	98.6		107	21,22,23	59.7		47	3	0.00		0.00	—	0		3.7		0	0	1	0	0
Hyderabad	99.0	+6.5	107	22,23	66.1	+2.3	60	4,11	0.00	—0.20	0.00	—	0	—0.4	3.0	—1.3	0	0	0	0	0
KHAIRPUR																					
Padidan	95.5		107	25	59.7		48	3	0.00		0.00	—	0		3.9		0	0	0	0	0
Nawabshah	96.3		105	24	61.1		52	3,4	0.00		0.00	—	0		3.7		0	0	0	0	0
Sukkur	92.9	+5.0	103	22,25	62.5	+2.9	53	1	0.12	—0.12	0.12	30	1	+0.1	3.0	—0.3	1	0	0	0	0
Kashmore	*		*		*		*		0.00		0.00		0		*		*	*	*	*	*
Jacobabad	94.0	+4.4	105	24,25	62.6	+2.0	53	11	0.38	+0.16	0.38	30	1	+0.3	5.0	+1.0	1	0	0	0	0
JUNAGADH																					
Veraval	(m) 92.7		106	23	(j) 6.22		57		0.00		0.00			x		x	0	0	0	0	0
AFGHANISTAN																					
Jalalabad (x)																					
ARABIA																					
Muscat	79.5	—1.5	92	28	70.9	—1.0	64	3	0.96	+0.56	0.80	1	2	+0.9	4.7	+1.1	0	0	0	0	0
HILL STATIONS KASHMIR																					
Srinagar (x)																					
Gulmarg (x)																					
Gurez (x)																					
Sonamarg (x)																					
Dras (x)																					
Kargil (x)																					
Leh (x)																					
Skardu (x)																					

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MARCH, 1959.

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 Figures 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	44.9	—	57	21,23	(b) 23.4	—	14	9	0.22	—	0.04	12	0	—	4.1	—	0	0	0	0	0
Aliabad (x)																					
Gilgit (surface) (x)																					
RAWALPINDI																					
Murree	56.2	+0.6	71	23	41.9	+4.1	33	5	4.88	+0.07	1.49	25	6	—1.3	5.1	—0.1	7	0	5	0	0
PESHAWAR																					
Drosh	62.5	+4.4	77	24	41.8	+1.4	32	10	5.13	+1.40	1.85	2	11	+3.6	4.3	+1.2	3	0	0	0	0
Cherat	65.6	+4.4	78	24	51.0	+3.3	41	5	2.34	—1.95	0.82	10	4	—1.6	8.2	+0.5	2	0	1	0	0
Kakul	67.8	—	81	23	48.4	—	40	5	2.97	—	0.81	25	8	—	x	—	8	2	1	0	0
Balakot	68.8	—	84	24	48.3	—	41	4	5.51	—	1.67	25	9	—	4.6	—	6	0	0	0	0
Landikota	67.9	—	81	24,26	*	—	*	—	2.11	—	0.90	10	5	—	1.7	—	2	1	0	0	0
D. I. KHAN																					
Parachina																					
Miranshah	73.5	+6.2	85	24	50.7	+3.0	43	11	1.33	—1.21	0.60	26	4	—1.4	3.5	—1.2	1	1	0	0	0
Wana	71.7	+6.0	84	24	42.9	+2.9	34	3,7,11	0.72	—1.21	0.41	2	2	—1.9	2.6	—	5	1	0	0	0
HILL STATIONS																					
QUETTA																					
Fortsandeman	75.8	+5.9	88	24	48.4	+3.6	39	11,12	1.09	—0.29	0.55	30	4	+0.4	3.4	+0.4	0	0	0	0	0
Hindubagh	68.7		80	22	43.0		31	10	0.91		0.40	10	3		6.9		0	0	0	0	0
Loralai	74.7		84	3 days	41.7		34	11	0.48	—0.82	0.39	2	1	—2.1	4.5		2	1	0	0	0
Harnai									1.20	—0.21	1.05	2	2	—0.9	x	x	0	0	0	0	0
Samungli	70.1		82	22,24	38.1		27	11	0.39		0.19	1	2		3.2		2	1	0	0	0
Quetta (Fruit Farm)	68.4		83	23	40.3		27	11,12	0.75		0.38	1	2		3.6	+0.8	0	0	0	0	0
Chaman	72.4	+5.9	87	23	47.9	+1.9	32	10	0.38	—1.11	0.25	2	1	—3.0	x	x	0	0	0	0	1
KALAT (NORTH)																					
Kalat	66.8	+6.1	80	22	37.7	+1.7	24	10	0.62	—0.43	0.35	2	2	—1.0	4.9	+0.1	0	0	0	1	0
Nushki (R)																					
Dalbandin	82.4	+4.6	95	25	52.0	+4.3	39	10	0.36	—0.04	0.27	1	1	—0.4	4.4	+0.4	0	0	0	1	0
KALAT (SOUTH)																					
Panjgur	80.2	+2.1	91	24	51.3	+1.1	43	2	0.45	—0.15	0.35	2	2	+0.7	x	x	0	0	0	0	0
AFGHANISTAN																					
Kabul (R)																					
Kandahar	73.5	—	89	23	45.7	—	33	10	—	—	0.60	1	3	—	1.5	—	5	0	0	0	0

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

REGD. No. S - 1452

PAKISTAN WEATHER REVIEW, 1959

MONTHLY WEATHER REPORT

April

(PUBLISHED BY THE AUTHORITY OF GOVERNMENT OF PAKISTAN)

Chief Features:

Fairly widespread rain with locally moderate to heavy falls in D. I. Khan, Peshawar and Rawalpindi Divisions on the 3rd and the 4th due to the passage of two active western disturbances.

2. Frequent dust or thunderstorms over a greater part of West Pakistan from the middle of the 3rd week till about the end of the month.

West Pakistan

The western disturbance which had started affecting at the end of the previous month moved away on the 1st after causing thundershowers locally in Peshawar and Rawalpindi Divisions. Thereafter two active western disturbances moved across the region and caused fairly widespread rain with locally moderate to heavy falls in D. I. Khan, Peshawar and Rawalpindi Divisions and scattered to local rain or thundershowers elsewhere over the region outside Hyderabad Division and the Federal Capital Area, between the 2nd and 4th. Except on the 9th and 10th when a few light showers occurred in Peshawar Division in association with the passage of a western disturbance across Afghanistan, the weather was dry during the second week.

Two troughs of low pressure associated with western disturbances moving across Russian Turkistan and a secondary western disturbance over northeast Arabian Sea on the 18th evening and rapidly moved away northeastwards, caused scattered dust or thunderstorms in divisions along the northwest frontier and in Rawalpindi, Bahawalpur and Hyderabad Divisions on the 17th and the 18th.

During the rest of the month, six western disturbances affected the weather over the region and caused frequent dust and thunderstorms or light rain locally over a few places in West Pakistan outside the Federal Capital Area. However, one of the disturbances was active and caused some heavy falls of rain in Quetta Division on the 22nd and fairly widespread rainfall in D. I. Khan and Peshawar Divisions between the 22nd and the 23rd. Multan was hit by a violent squall on the 22nd causing a number of deaths and considerable damage to property as reported by newspapers.

Noteworthy amounts of rainfall recorded were Parachinar 3″ and Chakdara, Cherat and Landikotal 2″ each on the 3rd and Fort Sandeman 2″ on the 22nd.

The total rainfall during the month was in slight excess in Khairpur Division, in moderate excess in Peshawar Division and in large excess in D. I. Khan, Quetta and Hyderabad Divisions. It was in slight defect in Rawalpindi Division, in moderate defect in Multan Division and in large defect elsewhere. Averaged over the region as a whole it was in slight excess.

The mean maximum temperature was normal in Lahore, Rawalpindi and Multan Divisions and above normal elsewhere. The mean minimum temperature was normal in Multan, Quetta and Hyderabad Divisions and in the Federal Capital Area and above normal elsewhere.

The mean relative humidity was in excess in Hyderabad Division, in defect in Quetta and Kalat Divisions and Federal Capital Area and normal elsewhere.

The mean cloud amount was in excess in Lahore Division, normal in Rawalpindi, Bahawalpur and Khairpur Divisions and in defect over rest of the region.

East Pakistan

A westerly low pressure wave which lay over Orissa and adjoining West Bengal on the last day of the previous month moved away across East Pakistan by the 2nd after causing widespread rainfall in Rajshahi and Dacca Divisions and local in Chittagong Division on the 1st and scattered to local rainfall over the region on the next day.

In association with the passage of another westerly low pressure wave and a low pressure area across the region towards the middle of the month scattered to local thunderstorms or showers occurred over there between the 15th and the 18th.

Scattered to fairly widespread rain/thundershowers occurred in Dacca, Rajshahi and Chittagong Divisions between the 19th and the 21st under the influence of a trough of low which extended from Utter Pradesh to West Bengal. However, unsettled conditions appearing in Andaman Sea caused a sudden decline in rainfall activity with only scattered showers occurring in Rajshahi Division on the 22nd.

Towards the end of the month a westerly low pressure wave moved across the region and caused scattered to local thunderstorms or showers in all the Divisions between the 23rd and the 27th.

Principal amounts of rainfall during the month were:—
Srimangal 4″ and Sylhet and Faridpur 2″ each on the 18th; Commilla, Faridpur and Jessore 3″ each on the 19th and Narayanganj 3″ on the 21st.

The total rainfall during the month was in large defect in Chittagong Division and normal elsewhere. Averaged over the region it was in slight defect.

The mean maximum temperature was normal everywhere. The mean minimum temperature was normal in Chittagong Division and above normal elsewhere.

The mean relative humidity and the mean cloud amount were normal everywhere except in Rajshahi Division where the mean cloud amount was in defect.

Table 1 contains the Divisional means of rainfall, temperature, relative humidity and the cloud amount for the 15 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 APRIL, 1959.

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	2.91	~~62.7~~ 6.27	—3.36	—54	+0.1	+1.5	+0.9	—1	—0.2
Dacca	4.65	4.95	—0.30	—6	+0.2	+2.1	+1.5	+3	0.0
Rajshahi	2.73	2.70	0.03	+1	+0.2	+2.7	+2.8	+4	—0.7
Mean	3.34	4.46	—1.12	—25	+0.2	+2.1	+1.8	+2	—0.3
WEST PAKISTAN									
Kashmir (x)									
Lahore	0.01	0.79	—0.78	—99	+1.5	+3.1	+1.1	—1	+0.5
Rawalpindi	1.87	2.32	—0.45	—19	+1.2	+2.7	+0.9	+3	—0.5
Multan	0.18	0.36	—0.18	—50	+1.5	+1.6	+1.6	+5	—0.7
Bahawalpur	0.00	0.18	—0.18	—100	+3.1	+3.3	+0.5	+1	—0.3
Peshawar	3.66	2.87	+0.79	+28	+3.3	+2.0	+0.1	—3	—0.8
D. I. Khan	3.25	1.74	+1.51	+87	+2.6	+2.2	+1.5	+3	—0.5
Quetta	1.19	0.70	+0.49	+70	+3.9	+1.8	+1.0	—6	—0.7
Kalat	0.19	0.45	—0.26	—58	+4.8	+2.7	—0.4	—10	—0.6
Federal Capital Area	0.00	0.15	—0.15	—100	+5.2	+1.2	—0.8	—8	—0.5
Hyderabad	0.07	0.03	+0.04	+133	+3.1	+1.5	+2.5	+9	—1.1
Khairpur	0.16	0.13	+0.03	+23	+2.3	+2.5	—0.7	—3	—0.1
Mean	0.84	0.76	+0.08	+11	+3.5	+2.3	+0.6	—3	—0.6
Junagadh (x)									

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL, 1959.

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	1002.4		1009.7	72.8	71.5	70.8	25.7		93		5.0		2	0	0	3	12	0	2	1	10
	0300		1004.1		1011.3	81.9	74.9	71.4	26.5		71		4.0		6	0	2	3	15	1	0	0	3
	1200		999.6		1006.6	87.0	75.5	70.5	24.9		57		2.3		6	0	2	(c) 0	13	4	1	0	1
Cox's Bazar (P.T.)	0300	38	1009.7	+0.4	1011.0	85.2	78.4	75.1	29.6	+0.3	72	−3	2.8	−0.5	3	0	4	3	13	2	2	3	0
	1200		1006.2		1007.5	83.7	78.1	76.0	30.8		77		2.6		1	0	0	0	12	8	7	2	0
Chittagong (Patenga)	0000	20	1008.1		1008.8	76.2	74.5	73.4	28.5		93		3.8		1	5	2	12	2	0	0	0	8
	0300		1009.9		1010.6	83.8	77.7	75.0	30.0		75		3.7		5	4	2	9	8	0	1	0	1
	1200		1006.1		1006.8	85.1	78.4	75.1	30.3		73		2.4		0	0	0	1	11	9	6	3	0
Chittagong	0300	46	1009.1	+0.2	1010.7	84.0	77.0	74.1	28.5	+0.4	71	−4	3.5	+0.1	5	4	2	4	9	5	0	1	0
	1200		1005.1		1006.6	84.7	77.3	73.9	28.7		70		2.4		1	0	0	0	4	12	8	4	1
Maijdee Court	0000	25	1007.3	+0.5	1008.1	77.8	75.3	74.7	29.0		89		2.9		0	0	0	2	8	3	0	0	17
	0300		1009.5		1010.3	83.9	77.7	76.1	30.0	+0.5	75	0	3.0	−0.4	2	0	0	3	12	1	1	1	10
	1200		1015.3		1006.2	84.8	77.7	74.4	29.6		72		2.4		0	0	0	4	8	0	0	0	18
Comilla	0000	29	1007.4		1008.4	75.6	74.6	73.8	29.2		95		2.6		0	0	0	0	1	0	0	0	29
	0300		1009.1	+0.5	1010.1	83.4	77.7	75.0	29.7	+0.9	77	+6	3.0	−0.5	0	0	0	0	7	0	0	0	23
	1200		1005.4		1006.4	86.5	79.0	75.6	31.0		71		2.7		0	0	0	0	8	0	0	0	22
Brahmanbaria	0000	32	1007.2		1008.3	76.1	74.3	73.3	27.8		91		4.6		0	1	2	4	6	0	0	0	17
	0300		1008.9		1010.0	83.6	76.8	73.0	28.4	+2.8	71	+2	4.1		0	1	0	11	10	1	0	0	7
	1200		1004.7		1005.8	85.4	77.4	73.5	28.1		68		2.9		0	0	0	9	9	2	0	0	10
Srimangal	0000	69	1006.7		1009.2	72.1	69.9	68.8	24.1		90		3.8		0	0	0	0	0	0	0	0	30
	0300		1008.0	+0.2	1010.4	82.3	75.4	71.8	26.5	+0.5	71	−6	3.6	+0.1	0	0	0	4	2	2	0	0	22
	1200		1003.6		1006.0	84.7	76.2	72.8	27.3		66		3.2		0	0	0	0	1	2	0	0	27
Sylhet (P.B.O.)	0000	115	1004.3		1008.3	72.3	70.4	69.8	24.1		90		4.1		0	1	19	0	0	0	0	0	10
	0300		1006.2		1010.1	80.9	75.2	72.5	27.7		76		4.7		0	0	22	4	1	0	0	0	3
	1200		1001.6		1005.5	84.6	77.7	74.0	29.6		72		3.7		0	1	1	0	1	0	6	0	21
Dacca Division																							
Mymensingh	0000	62	1006.0		1008.1	75.7	73.5	72.5	27.8		91		4.0		0	0	3	10	0	0	0	0	17
	0300		1007.9	+0.3	1010.1	81.5	75.7	72.9	26.7	+1.3	75	+1	4.6	−0.1	0	0	2	24	0	0	0	0	4
	1200		1003.2		1005.3	88.8	77.1	71.7	27.0		57		2.6		0	0	4	11	0	0	1	0	14
Narayanganj	0000	26	1006.7		1007.5	77.4	75.0	73.8	28.0		88		4.6		0	1	3	3	14	0	0	0	9
	0300		1008.5	0.0	1009.4	84.3	77.2	73.7	28.5	+0.6	71	−4	4.4	+0.2	0	0	2	5	11	4	3	2	3
	1200		1004.0		1004.9	87.9	78.1	73.7	28.2		62		3.3		0	0	4	3	16	0	0	1	6
Dacca (Tejgaon)	0000	27	1006.1		1007.1	75.8	74.6	73.9	29.2		95		4.8		0	1	2	6	9	2	2	0	8
	0300		1008.1		1009.1	83.5	77.6	74.9	29.0		75		4.1		0	0	2	6	8	7	4	0	3
	1200		1003.7		1004.6	87.0	77.3	73.3	27.9		63		3.5		2	1	1	5	15	1	2	0	3

(c) Observation for 27 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL, 1959.

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
Dacca Division (contd)	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Faridpur	0000	46	1005.7		1007.3	76.3	74.1	73.4	27.8		91		3.1		0	0	1	9	14	2	0	0	4
	0300		1007.5	+0.5	1009.0	83.7	77.4	74.2	29.3	+1.2	73	+4	3.0	—0.1	0	0	2	1	18	1	5	1	2
	1200		1003.4		1005.0	88.8	77.8	72.8	27.7		59		3.2		1	0	0	6	12	4	1	0	6
Barisal	0000	11	1007.5		1007.9	79.9	76.3	75.8	29.6		85		2.9		0	0	0	1	5	0	0	0	24
	0300		1009.1	+0.1	1002.5	85.5	80.6	75.8	32.7	+2.8	79	+4	3.8	0.0	0	0	2	2	15	0	6	0	5
	1200		1005.6		1006.0	86.7	79.1	75.5	31.0		71		2.9		1	0	4	3	15	0	5	1	1
Rajshahi Division																							
Khulna	0000	16	1007.2		1007.8	77.9	77.5	77.4	32.0		98		2.9		0	1	0	0	9	1	0	0	19
	0300		1008.9	+0.5	1009.5	85.2	80.7	79.0	33.5	+4.7	81	+9	2.9	—1.2	2	0	0	4	10	3	0	0	13
	1200		1004.9		1005.5	88.4	82.2	79.8	34.6		76		1.6		0	1	0	1	15	0	0	0	13
Satkhira	0000	16	1006.9		1007.5	77.8	76.5	75.9	30.5		93		3.2		0	0	0	0	2	4	0	0	24
	0300		1008.7	+0.4	1099.3	86.0	79.1	75.8	30.7	+1.5	72	+2	3.0	0.0	0	0	0	4	4	10	0	0	12
	1200		1004.8		1015.4	89.7	79.8	75.9	30.4		63		2.8		0	1	0	2	12	5	0	0	10
Jessore	0000	26	1005.9		1006.8	76.6	74.8	74.0	21.6		91		4.3		0	1	3	2	16	2	0	2	4
	0300		1007.9	0.0	1008.8	84.5	78.2	75.2	30.1	+1.3	73	0	2.7	—0.6	0	0	1	2	15	9	3	0	0
	1200		1004.5		1005.4	92.6	77.4	69.0	25.9		49		2.2		0	0	1	0	24	3	1	0	1
Pabna	0000	48	1003.1		1004.8	75.9	74.4	73.8	28.5		93		2.3		0	2	0	21	4	3	0	0	0
	0300		1006.0		1007.7	84.8	77.7	74.5	29.6	+2.1	72	0	2.9		0	2	0	13	4	11	0	0	0
	1200		1001.5		1003.1	92.2	76.5	69.0	24.1		47		2.7		1	6	0	11	1	6	0	5	0
Serajganj	0000	51	1005.3		1007.1	75.3	73.9	73.3	27.5		93		3.1		0	0	2	4	6	0	0	0	18
	0300		1006.2		1007.9	83.2	77.3	74.5	29.0		75		3.9		0	2	2	5	12	3	0	1	5
	1200		1001.8		1003.5	87.7	78.7	74.7	29.5		65		3.0		0	1	1	3	6	1	0	0	18
Rajshahi	0300												4.5										
Bogra (P.B.O.)	0000	65	1004.6		1006.8	75.3	73.2	72.3	26.8		90		3.8		0	0	10	7	3	3	0	0	7
	0300		1006.5	0.0	1008.7	82.7	76.7	73.8	29.0	+4.3	75	+6	3.7	+0.3	0	0	7	12	5	5	0	0	1
	1200		1001.8		1004.0	88.5	78.5	73.5	29.3		63		2.3		0	2	5	6	2	0	0	1	14
Dinajpur	0000	123	1002.2		1006.5	73.5	70.7	68.9	23.7		85		1.8		0	3	8	0	0	0	0	0	19
	0300		1004.0	—0.3	1008.2	81.5	74.0	69.5	24.8	+3.1	70	+5	1.0	—2.2	0	0	4	0	0	0	0	0	26
	1200		999.5		1003.7	90.9	75.3	66.6	23.1		47		0.5		0	2	2	0	0	0	1	0	25
Rangpur	0000					73.6	71.7	70.7	25.9		90		3.9		2	4	8	4	0	0	0	0	12
	0300					80.5	75.1	72.6	27.7		76		3.4		1	3	7	12	5	0	0	1	1
	1200					87.6	77.0	71.9	27.4		60		1.5		1	4	3	1	4	1	3	0	13

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL, 1959.

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 Jail Road	0000	702	983.3		1007.9	67.9	60.3	54.5	14.4		62		2.7		3	1	0	0	0	0	0	6	20
	0300		984.6	+1.2	1008.8	76.8	63.6	53.4	14.2	−0.8	45	+1	3.1	+0.8	3	3	0	1	0	0	0	4	19
	1200		982.2		1005.6	93.3	68.1	48.3	12.2		22		2.3		1	1	0	0	0	2	4	6	16
„ (Cantt.)	0000	703	982.5		1007.2	69.1	60.7	53.9	14.4		59		2.4		12	1	1	0	0	0	2	9	5
	0300		984.0	—	1008.4	76.2	63.6	54.0	14.4	—	47	...	2.7	...	7	3	2	3	0	1	0	13	1
	1200		981.5		1005.2	92.7	67.0	46.4	11.1		22		2.8		4	5	1	1	1	1	7	10	0
„ (Walton) (x)	0000	699																					
	0300		984.4	—	1008.5	76.1	64.5	55.9	15.5	...	51	—	2.5	...	1	0	3	3	0	0	0	16	7
	1200		981.7		1005.0	93.6	70.1	54.3	14.5		27		2.3		1	3	2	2	1	2	1	16	2
Sialkot	0000	830	978.5		1007.0	71.7	61.2	52.3	14.2		54		1.4		0	8	0	0	0	2	0	1	19
	0300		980.0	+0.8	1008.5	76.5	64.5	55.2	15.2	+1.5	48	−2	2.0	+0.1	0	5	0	0	0	1	0	4	20
	1200		977.2		1004.8	92.9	69.8	53.9	14.7		28		2.2		0	3	0	0	0	5	0	13	9
RAWALPINDI																							
Jhelum	0000	765	980.9		1007.8	65.6	58.9	53.5	14.0		65		1.8		0	4	0	0	0	1	2	8	15
	0300		982.3	—	1008.9	74.1	61.9	51.9	13.5	..	46	...	2.4	...	2	1	1	2	1	1	0	11	11
	1200		979.7		1005.4	90.6	66.7	46.9	11.6		24		3.3		1	3	1	1	3	3	5	6	7
Chaklala	0000	1667	951.6		1009.7	61.2	56.0	51.8	13.2		72		2.0		5	3	2	0	0	0	3	4	13
	0300		952.6	—	1009.9	69.2	60.1	53.3	14.0	...	58	...	2.5	...	2	3	3	0	0	0	0	6	16
	1200		950.6		1006.0	84.9	64.3	49.0	12.2		30		4.1		2	2	0	0	1	2	13	6	4
Rawalpindi	0000	1676	951.5		1009 7	62.2	57.2	53.4	13.9		73		1.5		6	1	2	0	0	1	1	4	15
	0300		952.5	+1.0	1009.8	72.6	61.3	53.3	14.0	+1.0	57	+9	2.4	−0.2	1	0	1	0	1	0	2	1	24
	1200		950.4		1006.1	84.8	64.4	49.4	12.4		30		3.9		4	1	2	0	2	3	4	1	13
Khushab	0000	616	(b) 987.0		(b) 1008.5	68.5	61.3	56.6	15.3		66		0.9		1	1	5	0	0	0	0	0	23
	0300		988.1	+1.0	1009.6	75.6	63.9	56.5	15.0	+2.0	50	+7	1.3	−0.9	2	2	4	0	0	0	0	0	22
	1200		985.7		1006.2	91.8	67.8	54.9	12.4		24		1.8		3	1	7	0	2	0	2	0	15
Sargodha (x)	0000	614																					
	0300																						
	1200																						
MULTAN																							
Lyallpur	0000	605	986.6		1007.8	67.1	60.9	56.7	15.5		70		1.8		1	2	1	0	0	2	0	5	19
	0300		987.5	+0.6	1008.6	71.6	63.0	56.5	15.9	+3.1	60	+14	2.4	−0.7	0	8	3	0	2	2	0	4	11
	1200		985.1		1005.3	93.2	69.6	53.2	14.1		27		3.0		2	5	2	2	1	2	2	8	6
Montgomery	0000	558	987.7		1007.2	67.1	60.9	55.9	15.5		69		1.6		1	4	0	4	1	5	0	7	8
	0300		989.7	+1.3	1009.1	75.0	64.8	58.0	16.4	+0.8	55	−1	0.4	−1.2	0	2	0	1	0	5	0	2	20
	1200		(b) 987.3		1005.9	93.9	73.7	62.6	19.2		36		1.2		0	1	0	4	0	3	0	1	21
Multan (P.B.O.)	0000	404	993.4		1007.7	70.0	61.9	55.6	15.3		61		2.0		8	2	4	1	0	3	0	1	11
	0300		995.0		1009.1	77.5	65.6	57.3	16.1	...	49	...	1.7	...	9	3	2	1	2	3	0	1	9
	1200		991.6		1005.1	96.1	70.5	53.0	13.9		24		2.4		5	4	1	1	1	6	3	3	6
Multan (Surface)	0300	413	994.6	+1.0	1008.9	76.7	66.0	58.7	17.1	+0.7	54	+3	1.6	−0.1	4	12	0	3	2	2	0	2	5
	1200		991.5		1005.2	96.8	70.7	52.8	13.8		23		2.8		4	3	0	2	5	3	3	3	7

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL, 1959.

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										
BAHAWALPUR																							
Lelah	0000	490	(i) 989.5		(i) 1006.6	68.1	*	—	—		—		1.4		8	0	0	1	0	0	0	0	21
	0300		(j) 991.5	—	(j) 1008.2	75.1	*	—	—		—		2.3		10	0	0	0	0	0	0	0	20
	1200		989.2		1005.3	95.9	*	—	—		—		4.2		8	0	3	0	7	0	0	1	11
Khanpur (Surface)	0300	297	998.4	+0.3	1008.7	78.7	65.5	55.9	15.6	+2.4	46	+4	0.7	—0.7	3	9	3	1	1	4	1	1	7
	1200		994.7		1004.6	100.3	71.0	50.4	12.7		18		1.4		3	5	1	0	0	3	5	6	7
,, (P.B.O.)	0000	290	996.7		1007.1	68.3	60.0	53.0	13.9		59		0.8		3	5	1	0	1	0	1	0	19
	0300		998.7	—	1008.8	77.6	64.2	54.1	14.4	—	45	—	0.6	—	3	10	0	1	0	1	2	0	13
	1200		994.8		1004.5	98.5	68.1	42.7	9.7		16		1.1		3	4	1	1	0	3	6	1	11
Bahawalpur	0300	384	995.6	+0.6	1009.0	76.1	63.6	54.5	14.5	—1.5	47	—3	1.8	0.0	2	4	3	1	2	0	1	0	17
	1200		992.1		1004.9	98.9	73.1	56.4	16.1		25		1.9		6	4	1	1	2	3	2	7	4
Fort Abbas	0000	475	*		*	70.4	60.8	53.4	13.9		55		1.5		0	5	1	10	1	7	1	4	1
	0300		992.1	—	1008.5	80.3	64.0	51.9	13.1	—	37	—	0.8	—	1	6	1	7	2	6	2	5	0
	1200		(c) 989.4		(c) 1005.1	(c) 98.9	71.2	54.1	13.9		22		0.8		1	11	1	1	0	15	0	1	0
PESHAWAR																							
Chakdara	0000	2197	934.1		1010.2	60.3	(j) 54.9	(i) 51.5	12.6		69		1.2		0	1	0	1	0	0	3	0	25
	0300		935.2	—	1011.7	61.3	(a) 45.5	(i) 52.4	12.7	—	63	—	2.3	—	3	1	1	2	0	0	0	0	23
	1200		932.2		1005.1	80.9	(l) 64.2	(l) 54.5	13.7		39		2.8		0	0	1	3	0	5	8	1	12
Peshawar	0000	1177	968.6		1009.9	62.5	56.9	51.7	13.3		67		2.1		0	2	1	4	4	4	1	2	12
	0300		969.9	+0.4	1010.7	70.3	61.7	54.9	14.9	+1.2	59	+3	2.7	—1.0	0	0	1	4	6	0	1	3	15
	1200		967.6		1007.2	84.3	65.1	49.5	12.5		31		4.0		7	1	1	6	1	2	1	5	16
Risalpur	0000	1009	974.4		1009.9	60.8	56.5	52.6	13.7		75		2.2		0	0	2	0	0	0	13	3	12
	0300		975.7	—	1010.7	68.6	61.2	55.4	15.1	—	63	—	2.6	—	0	1	0	0	0	2	18	3	6
	1200		972.6		1006.9	86.2	66.7	52.1	13.6		32		3.8		0	3	0	0	0	4	11	6	6
Haripur	0300	1757	949.2		1009.5	68.6	61.9	56.7	16.2	—	68	—	2.5		0	1	2	2	0	22	1	2	0
	1200		947.3		1006.1	80.3	*	—	—		—		2.8		2	3	1	4	0	19	0	1	0
Campbellpur	0300	1175	969.7	—	1010.3	70.4	60.1	51.2	13.1	—	51	—	1.9		0	8	0	4	0	0	0	2	16
	1200		967.5		1006.9	87.0	(d) 66.1	49.9	12.5		28		2.8		1	5	0	1	0	0	0	14	9
D. I. KHAN																							
Kohat	0000	1667	952.9		1010.4	67.2	57.7	49.6	12.4		55		2.1		2	1	0	0	0	0	1	19	7
	0300		954.1	—	1011.2	71.5	60.7	51.1	13.7	—	52	—	2.6	—	0	0	0	0	0	0	0	18	12
	1200		951.9		1007.5	84.5	63.8	47.4	11.8		30		3.6		2	9	2	1	0	0	1	3	12
Bannu	0000	1263	964.7		1008.7	66.7	59.4	52.6	14.0		62		1.4		2	1	0	0	1	2	10	8	6
	0300		965.4	—	1009.2	71.1	62.3	55.9	15.2	+2.2	58	+7	1.6	—0.1	1	0	0	0	0	0	8	4	17
	1200		963.3		1005.5	87.8	67.1	52.7	13.3		29		2.4		3	0	7	4	4	3	0	0	9
D. I. Khan	0000	570	*		*	69.1	*	—	—		—		1.2		0	2	0	0	0	0	0	2	26
	0300		989.4	+0.7	1009.2	75.3	*	—	—		—		2.1	—0.1	2	5	0	1	0	2	3	8	0
	1200		986.1		1005.3	92.0	*	—	—		—		2.5		0	6	0	0	0	1	0	0	23

(i) Mean for 22 days. (d) Mean for 29 days. (*) Data rejected. (l) Mean for 19 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL, 1959.

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	993.0		1008.5	73.8	57.1	39.5	8.5		29		0.5		0	0	0	0	0	0	0	0	30
	0300		993.2	+1.4	1009.3	76.7	61.1	46.7	11.4	+1.6	37	+6	0.9	—1.0	2	0	0	1	0	0	1	0	26
	1200		990.3		1004.9	100.7	69.7	47.2	10.8		16		2.1		0	3	1	2	2	3	2	1	16
KALAT (NORTH)																							
Nokkundi	0000	2229	933.2		1008.6	70.9	58.7	50.3	11.9		46		0.0		9	6	1	3	0	2	2	7	0
	0300		934.6		1009.4	75.7	61.3	50.7	12.7	+1.7	41	—4	0.0	—1.9	6	9	5	1	1	2	1	5	0
	1200		931.7		1003.7	93.8	67.6	50.6	12.4		23		0.0		6	2	3	6	2	5	2	4	0
KALAT (SOUTH)																							
Turbat	0000	510	991.7		1009.4	75.5	69.8	66.1	22.1		73		0.0		0	0	6	1	3	8	10	2	0
	0300		993.5	...	1011.1	80.4	71.9	66.6	22.9	...	64	...	0.1	...	2	0	15	3	1	5	4	0	0
	1200		990.1		1006.9	102.3	84.8	76.2	32.9		47		1.4		1	0	5	1	3	10	8	2	0
Jiwani	0000	185	1001.7		1008.3	75.9	72.4	70.2	25.6		84		0.8		2	2	0	2	3	2	13	1	5
	0300		1003.2		1009.6	78.6	73.8	71.1	26.5		79		1.2		4	1	1	1	1	2	8	4	8
	1200		1001.4		1007.7	88.2	73.1	63.5	21.0		46		1.3		0	0	0	3	7	16	4	0	0
Pasni	0000	28	1006.8		1007.8	74.5	71.4	69.6	28.0		85		1.0		0	0	1	0	0	0	10	8	11
	0300		1008.3	—0.4	1009.3	77.1	73.1	71.0	26.0	+2.3	82	+1	1.7	+0.3	1	0	2	1	0	0	7	5	14
	1200		1006.0		1006.9	88.5	79.8	75.7	30.8		67		2.0		0	0	0	1	5	22	2	0	0
Ormara	0000	15	1007.0		1007.5	77.3	71.4	67.4	23.6		73		2.0		0	0	0	0	0	2	11	3	14
	0300		1008.6		1009.1	80.1	72.7	68.3	24.1	—1.6	68	—16	2.7	+0.9	0	0	1	0	1	2	11	0	15
	1200		1005.9		1006.4	89.9	73.7	63.2	21.0		44		1.9		0	0	0	0	1	14	13	0	2
Lasbela	0000	292	*			*	*	*					0.2		0	0	1	0	0	0	0	0	29
	0300		999.4	0.0	1009.6	80.7 (b)	72.0 (a)	66.7 (b)	22.8	+0.7	64	—4	0.1	—1.3	7	1	1	3 (b)	0	0	0	2	16
	1200		995.2		1004.9	100.8	76.7	62.7	20.4		31		0.8		0	0	0	11	1	17	0	0	0
FEDERAL CAPITAL AREA																							
Karachi (Manora)	0000	13	1006.9		1007.4	77.5	72.7	70.0	25.3		78		1.1		0	0	0	0	0	3	10	3	14
	0300		1008.6	—0.1	1009.1	78.9	73.1	69.9	25.2	—0.8	75	—8	1.6	—0.5	0	0	2	0	0	6	10	3	9
	1200		1006.2		1006.7	85.8	79.7	77.1	31.9		76		2.2		0	0	0	0	0	10	17	3	0
Karachi (Mauripur)	0000	52	1005.6		1007.4	75.8	71.9	69.8	24.9		82		0.6		1	3	0	0	1	2	7	5	11
	0300		1007.0		1008.8	78.4	73.8	71.3	26.5		80		1.3		0	2	2	0	0	3	10	7	6
	1200		1004.9		1006.6	88.1	75.9	68.0	25.0		55		1.0		0	0	0	0	0	20	9	1	0
Karachi (City)	0300	20	1008.0		1008.7	81.6	75.9	73.1	28.0		76		1.7		0	0	1	0	0	9	12	6	2
	1200		1006.4		1007.1	86.4	79.6	75.9	31.4		73		1.2		0	0	0	0	0	20	9	1	0
Karachi (P.A.F.)	0000	38	1006.6		1007.9	75.5	72.0	69.9	25.3		83		0.6		3	0	0	0	0	6	7	1	13
	0300		1007.9		1009.2	78.8	69.4	71.3	20.2		60		1.4		0	2	1	0	0	7	10	1	9
	1200		1005.4		1006.7	90.0	77.4	70.3	26.4		55		1.0		0	0	0	0	0	28	2	0	0
Karachi (Airport)	0000	73	1005.1		1007.6	74.8	70.5	68.0	23.5		80		0.6		0	0	0	0	0	3	4	1	22
	0300		1006.8		1009.3	78.2	72.0	67.5	24.0		72		1.2		0	1	1	0	0	4	7	1	16
	1200		1004.1		1006.6	91.5	73.9	62.2	20.7		41		1.2		0	0	0	0	3	21	6	0	0
HYDERABAD																							
Badin	0000	31	1007.6		1008.8	74.2	70.9	68.1	24.4		83		0.0		0	0	0	0	0	30	0	0	0
	0300		1009.3	+1.5	1010.4	77.1	72.3	68.6	24.9	+2.6	78	+12	0.0	—1.2	0	0	0	0	0	30	0	0	0
	1200		1005.8		1006.9	99.9	73.7	57.4	16.5		25		0.8		3	0	0	0	1	26	0	0	0
Nagarparkar*	0000	178 (Prov.)																					
	0300																						
	1200																						

(*) Data rejected. (b) Mean of 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL, 1959.

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	1005.7		1007.6	73.5	67.9	63.7	20.8		74		0.5		0	0	0	1	14	9	0	0	6
	0300		1006.1		1007.6	76.8	70.1	65.5	22.1		70		2.0		1	0	3	16	6	0	0	1	4
	1200		1002.6		1004.4	103.1	75.4	58.8	17.4		25		2.3		1	1	1	0	1	14	4	8	0
Chhor	0000	19	1006.3		1007.0	70.7	65.0	60.8	18.6		72		1.0		0	1	1	1	1	10	1	0	15
	0300		1008.1		1008.8	78.8	69.8	63.5	20.8		62		1.2		0	1	1	1	3	18	2	1	3
	1200		1004.0		1004.6	10.17	71.1	48.6	12.2		18		1.4		1	1	0	2	0	20	5	1	0
Hyderabad	0000	98	1003.6		1007.0	75.1	67.1	61.7	11.5		65		0.4		0	0	1	0	1	7	0	0	21
	0300		1005.1	+2.1	1008.5	79.4	69.4	62.7	20.0	+2.5	58	+6	0.3	—0.9	0	0	0	0	2	9	1	0	18
	1200		1002.0		1005.3	99.9	71.7	51.7	13.7		21		1.8		1	0	0	1	2	16	0	0	10
KHAIRPUR																							
Padidan	0000	153	1001.2		1006.5	70.7	60.7	52.1	13.6		53		0.3		1	4	3	7	2	3	0	6	4
	0300		1003.0		1008.3	78.9	64.7	53.5	14.5		42		0.5		2	5	1	6	6	2	1	4	3
	1200		999.8		1004.9	101.1	67.6	36.3	8.0		11		1.5		2	3	0	1	1	6	2	13	2
Nawabshah	0000	124	1002.7		1007.1	70.7	62.5	56.1	15.5		61		0.8		1	1	1	1	5	1	1	2	17
	0300		1004.3		1008.8	78.6	66.7	58.5	17.0		51		1.3		0	1	0	1	6	4	0	2	16
	1200		1001.1		1005.3	100.9	70.3	47.8	11.5		17		2.3		2	0	0	0	6	5	4	8	5
Sukkur	0300	221	1000.4	—0.2	1008.0	78.5	66.1	57.2	16.3	+1.0	49	—2	1.1	—0.2	3	1	2	13	1	1	0	1	8
			(b)		(b)	(b)	(b)	(b)					(b)						(b)				
	1200		997.3		1004.6	99.0	71.0	57.9	13.2		21		1.5		4	2	1	4	3	2	0	5	8
Kashmore*	0000	255																					
	0300																						
	1200																						
Jacobabad	0000	183	1000.3		1006.7	75.4	63.1	53.5	14.2		47		0.9		1	1	14	0	11	0	0	2	1
	0300		1002.3	+1.1	1008.6	80.2	65.0	52.8	14.3	—2.4	41	—5	1.1	—0.1	1	0	13	8	0	1	0	3	4
	1200		998.4		1004.5	100.7	73.0	52.9	15.1		23		1.8		2	0	1	9	7	3	3	3	2
JUNAGADH																							
Veraval (x)	0300	26																					
	0300																						
	1200																						
AFGHANISTAN																							
Jalalabad (x)	0300	1950																					
	1200																						
ARABIA																							
Muscat	0300	20	1009.0		1009.7	82.5	73.8	69.1	24.6		65		0.7	—0.6	0	0	0	0	0	0	4	6	20
			(b)		(b)	(b)	(b)	(b)					(b)						(b)				
	1200		1007.4		1008.1	85.3	76.8	73.4	27.6		66		1.2		2	0	11	0	0	0	1	4	11
HILL STATIONS KASHMIR																							
Srinagar (x)	0000																						
	0300																						
	1200																						

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL, 1959.

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. 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	8709																					
	1200																						
Gurez (x)	0300	...																					
	1200																						
Sonemarg (x)	0300																						
	1200																						
Dras (x)	0300	10059																					
	1200																						
Kargil (x)	0300	...																					
	1200																						
Leh (x)	0300	...																					
	1200																						
Skardu (x)	0000	7250																					
	0300																						
	1200																						
Misgar	0000	10190	*		*	31.0	26.6	17.5	3.6		62		2.3		0	0	1	0	0	0	0	0	29
	0300		700.2		3106.6	39.1	31.6	15.8	3.7	...	46	...	2.3	...	0	0	0	0	0	0	0	0	30
	1200		697.4		3072.4	53.1	39.7	17.8	4.2		30		3.0		0	0	13	1	0	0	13	0	3
Aliabad (x)	0300	6850																					
	1200																						
Gilgit (Surface) (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	784.1		1489.4	52.7	44.8	35.3	7.3		54		3.0		0	7	4	7	0	0	0	12	0
	0300		785.3	−1.2	1496.0	57.6	46.5	34.2	6.8	−0.3	43	−6	2.7	−0.4	1	8	7	6	1	0	3	1	3
	1200		784.8		1483.9	62.1	50.8	40.7	8.7		44		4.7		0	5	4	5	1	0	5	9	1
PESHAWAR																							
Drosh	0000	4806	855.3		1515.9	53.7	46.2	36.9	7.7		55		1.9		0	4	1	0	0	2	0	0	23
	0300		856.2	+1.3	1525.1	56.4	47.7	36.8	7.8	−1.0	50	−9	2.9	−0.2	0	2	6	0	0	1	0	0	21
	1200		852.5		1489.1	71.0	53.7	35.5	7.1		27		3.9		0	5	1	1	0	7	0	2	14
Cherat	0000	4272	(k) 868.7		1484.3	61.3	*						1.2		1	6	0	7	10	0	0	6	0
	0300		(j) 870.0	+1.2	1498.0	63.9	*						1.6	−1.1	0	2	0	6	11	0	0	7	4
	1200		*		*	72.2	*						2.9		1	5	0	5	3	2	0	7	7
Kohat	0000	4214	870.7		1485.2	58.2	49.4	39.8	8.5		51		2.1		9	8	1	2	1	0	0	9	0
	0300		871.7	...	1497.0	63.8	53.2	42.9	9.6	...	48	...	2.7	...	2	1	2	0	2	0	4	19	0
	1200		870.4		1487.9	72.7	57.3	43.5	9.8		35		3.6		1	3	1	4	5	4	3	9	0
Balakot	0000	3226	(x)		(x)	58.7	*						2.1		7	1	0	0	0	0	0	6	16
	0300		(x)		(x)	60.3	*						2.9		3	1	0	0	0	0	0	2	24
	1200		(x)		(x)	74.8	*						5.2		7	0	0	0	1	1	0	5	16
Landikotal	0000	3503	892.7		1477.9	56.9	50.8	44.5	10.2		65		2.2		0	0	0	0	0	3	0	2	25
	0300		893.8	...	1494.1	64.7	54.7	45.3	10.5	...	51	...	2.3	...	0	2	0	1	0	6	0	3	18
	1200		892.2		1486.9	75.2	58.7	44.1	10.2		33		3.5		2	5	0	3	0	9	0	9	2

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL, 1959.

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										
D. I. KHAN																							
Parachinar	0000	5673	826.1		1489.9	51.2	45.6	39.6	8.4		66		(d) 1.3		17	2	0	0	0	0	2	5	4
	0300		827.3	+1.4	1500.0	56.0	48.2	40.9	8.7	+0.3	56	−2	2.1	−0.8	3	2	3	3	1	0	0	2	6
	1200		826.3		1484.5	68.7	(k) 56.1	(k) 50.1	10.8		46		4.3		1	1	2	14	1	1	0	6	4
Miranshah	0000	3026	906.9		1467.6	62.4	*	—	—		—		1.1		*	*	*	*	*	*	*	*	*
	0300		908.2	—	1483.9	65.4	56.7	48.8	12.2	+2.5	58	+7	1.3	−0.8	*	*	*	*	*	*	*	*	*
	1200		906.4		1480.1	79.6	62.1	48.8	12.0		35		2.4		*	*	*	*	*	*	*	*	*
Wana	0300	4503	861.2	—	1481.3	58.0	50.7	43.5	9.7	+1.1	59	0	1.3	−0.9	0	0	0	1	4	7	3	0	15
	1200		859.2		1465.8	75.2	56.9	34.2	7.5		25		3.8		2	2	8	5	4	4	2	1	2
QUETTA																							
Forts Sandeman	0300	4614	860.3	+1.5	1507.8	62.8	53.3	45.0	10.1	+2.1	52	−11	1.7	−0.3	0	0	0	0	4	4	3	0	19
	1200		858.4		1491.3	77.9	59.0	41.7	9.4		29		5.0		1	2	4	1	5	4	6	3	4
Hindubagh	0000	5909	820.4		1500.1	51.5	45.1	38.4	7.4		61		0.5		1	0	0	0	0	2	22	0	5
	0300		822.0		1515.2	57.2	49.0	41.5	8.2		56		0.8		1	0	1	0	1	2	15	4	6
	1200		820.0		1487.4	72.7	60.0	52.3	11.7		48		2.2		1	0	1	0	2	1	22	1	2
Loralai	0000	4699	855.7		1489.5	54.6	48.9	43.7	9.5		66		1.3		0	0	0	0	0	6	11	4	9
	0300		856.3		1492.3	56.6	50.2	44.1	9.8		63		1.6		0	0	0	0	0	8	5	8	5
	1200		854.1		1472.9	78.7	62.3	52.0	12.5		37		4.5		1	1	0	2	3	11	1	6	5
Harnai	0300												0.8		5	0	0	0	0	0	25	0	0
	1200												3.3		0	0	16	0	6	0	8	0	0
Quetta (Samungli)	0000	5213	840.8		1495.1	50.5	45.7	40.9	8.8		71		1.1		0	0	4	5	0	1	1	0	19
	0300		841.5		1502.0	55.8	49.8	43.9	10.0		66		2.6		0	0	4	11	1	2	0	0	12
	1200		839.3		1476.0	75.5	59.1	45.1	11.3		37		3.8		1	1	3	3	0	2	9	10	1

*Data rejected.

(k) Mean for 20 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL, 1959.

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	0300	5490	832.5	—0.3	1433.3	62.4	52.4	44.0	9.9	+0.8	51	—12	2.4	+0.3	0	0	0	1	5	1	0	1	22
	1200		831.4		1477.7	73.5	60.0	51.1	12.8		45		3.3		3	1	0	1	3	2	6	6	8
Chaman	0000	4311	868.6		1494.3	63.4	52.2	41.3	8.8		44		0.5		4	3	12	9	2	0	0	0	0
	0300		869.6	+1.6	1506.9	65.9	52.6	38.3	8.3	—0.4	38	—7	0.6	—1.8	2	3	6	12	7	0	0	0	0
	1200		868.0		1497.0	80.9	59.5	39.0	8.7		24		0.9		8	1	0	2	6	6	1	6	0
KALAT (NORTH)																							
Kalat	0000	6616	*			45.4 (b)	39.9 (b)	33.5 (b)	6.4		63		(x) (b)					(b)	(x)				
	0300		800.0	+0.4	1502.1	59.7	48.5	37.6	7.6	—1.4	44	—12	0.8	—1.0	0	0	1	2	17	1	0	0	8
	1200		798.7		1475.1	67.8	51.5	35.9	7.2		30		(b) 2.7		8	1	0	(b) 1	4	1	4	8	2
Nushki	0000	3416	*			71.4	57.9	46.0	10.9		41		0.1		1	2	14	4	2	0	0	1	6
	0300		*			74.3	58.7	44.7	10.6		35		0.4		0	3	18	2	2	0	1	1	3
	1200		*			89.1	60.5	31.8	6.5		14		0.0		10	1	0	0	5	4	2	8	0
Dalbandin	0000	2785	915.6		1476.6	63.7	51.6	38.9	8.1		41		1.0		3	5	1	1	0	7	3	3	7
	0300		916.8	+1.0	1492.9	67.3	53.3	38.9	8.2	—1.0	36	—9	1.6	—0.3	3	6	1	2	1	1	1	1	14
	1200		913.9		1491.8	90.4	62.4	38.5	7.9		16		3.1		2	2	1	9	2	5	3	5	1
KALAT (SOUTH)																							
Panjgur	* 0000	3177	*																				
	0300		904.4	+1.8	1495.7	63.0	52.0	40.4	8.8	—3.8	45	—18	0.4	—0.9									
	1200		902.7		1499.6	88.1	61.6	37.3	8.0		17		1.4										
AFGHANISTAN																							
Kabul (R)	0300	5955																					
	1200																						
Kandahar	0300	3462	898.0		1516.5	60.6	54.9	50.2	12.4	—	69	—	1.8	—	0	0	1	6	2	0	1	1	19
	1200		895.2		1505.7	79.5	63.8	53.0	13.9		40		2.3		0	1	0	0	3	4	2	6	14

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF APRIL, 1959.

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
CHITTAGONG DIVISION																					
Rangamati	92.5		99	9	72.0		63	3,4,9	0.28		0.14	19	1		x		1		18		
Cox's Bazar (P. T.)	89.1	+0.4	95	9	74.1	+0.7	67	4	0.85	—3.35	0.58	19	3	—1.2	x		1				
Chittagong (Patenga)	89.1		95	9	75.7		66	4	0.14		0.05	19,21	0		x		2		2		
Chittagong	89.9	+1.1	98	9	75.0	+1.8	66	4	0.20	—5.73	0.17	19	1	—4.8	5.1	—1.5					
Maijdee Court	90.2	+1.2	97	9	76.7	0.3	68	3	1.15	—4.32	1.15	19	1	—4.6	x		1				
Comilla	91.7	—0.6	98	8,9,10	75.3	+2.0	67	1,3	4.11	—1.74	3.08	19	4	—2.5	x		2				
Brahmanbaria	91.4	—1.7	97	4 days	74.4	+4.2	65	1	5.84	—0.63	2.18	18	6	—0.9	3.8		3				
Srimangal	92.2	+0.1	99	8	69.0	—0.3	58	3,10	5.33	—4.38	4.42	18	3	—6.9	x		10				
Sylhet (P.B.O.)	89.0		94	4 days	71.7		63	1	10.54		2.96	30	7		x		14				
DACCA DIVISION																					
Mymensingh	91.9	+0.8	101	27	74.2	+2.5	64	1,2	2.08	—3.43	0.84	1	4	—3.1	2.5	+0.1	1				
Narayanganj	92.8	+0.4	101	10	76.3	+2.3	67	1	6.03	+0.63	3.23	21	5	—1.7	3.9	—0.2	3		2		
Dacca (Tejgaon)	93.0		100	10	75.6		66	1	3.10		1.54	1	4		6.9		7		2		
Faridpur	93.3	—0.5	103	26	74.3	+1.3	66	18,1,3	6.80	+2.13	3.19	19	5	—1.3	3.3	—2.9	3				
Barisal	92.2	+0.2	99	9	77.4	+2.3	72	4 days	3.69	—0.54	1.20	19	4	—1.3	x		3				
RAJSHAHI DIVISION																					
Khulna	95.2	+1.0	103	27	77.5	+2.2	71	1,2	2.71	—0.20	1.25	19	5	+0.8	3.9	0.0					
Satkhira	96.9	—0.1	106	28	77.4	+1.8	71	1	3.13	+0.20	1.56	21	4	0.0	2.4	—0.7					
Jessore	97.5	+0.9	106	28	75.4	+1.8	69	4 days	3.19	—0.34	2.78	19	3	—1.8	5.7	+2.9	1				
Pabna	97.3	+0.5	107	12,28	75.7	+4.1	66	1	0.60	—1.95	0.25	21	2	—2.5	x		5				
Serajganj	94.1		103	26,27	74.1		65	2	1.95	—1.32	0.63	21	6	+1.2	3.3		5		2		
Rajshahi									1.70	+0.05	1.40	19	2	—0.6							
Bogra (P.B.O.)	93.8	—1.8	103	27	74.7	+3.2	65	2	2.03	—0.21	1.11	19	3	—0.5	2.6	+0.2	6				
Dinajpur	94.8	+0.5	104	14	72.8	+2.8	62	3	5.31	+3.17	3.19	30	4	+1.0	2.4	—0.7	2		1		
Rangpur	91.2		98	12	72.2		63	2,3	3.98	+0.90	1.45	2	6	+1.6	2.9						

x) Data not available.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF APRIL, 1959.

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 (Jail Road)	95.5	+1.0	104	30	66.4	+3.2	55	1	0.01	—0.56	0.01	25	0	—1.6	1.8	—0.2	3	0	0	2	0
" (Cantt.)	94.1	—	101	16	67.0	—	55	1,4	0.11	—	0.07	25	0	—	3.7	—	3	0	0	0	0
" (Walton)	96.0	—	104	16,19,30	65.8	—	54	1	0.05	—	0.03	29	0	—	4.4	—	2	0	0	0	0
Sialkot	94.4	+2.0	102	29	67.6	+2.9	55	1	0.00	—1.00	0.00	—	0	—2.1	2.4	+0.5	1	0	0	0	1
RAWALPINDI																					
Jhelum	93.2	—	101	29,30	63.8	—	53	1	0.80	—	0.47	21	2	—	2.5	—	7	0	0	0	2
Chaklala	86.8	—	97	30	59.2	—	48	5	1.03	—	0.46	3	3	—	4.2	—	6	0	0	0	1
Rawalpindi	88.1	+1.9	98	30	60.8	+1.5	49	5	0.94	—0.98	0.50	5	2	—2.1	*	—	6	0	0	0	0
Khushab	94.0	+1.1	103	30	*	—	*	—	0.38	—0.53	0.32	3	1	—1.1	3.6	—1.0	1	0	0	0	0
Sargodha (x)																					
MULTAN																					
Lyallpur	94.4	+1.5	103	16,30	65.3	+1.4	56	5	0.29	—0.18	0.19	26	2	+0.7	2.1	—0.1	2	0	0	0	1
Montgomery	95.6	—0.1	103	16	66.6	0.0	56	5	0.00	—0.34	0.00	—	0	—0.9	2.4	—0.9	0	0	0	0	0
Multan (P.B.O.)	97.8	—	107	10	67.4	—	59	5,6	0.82	—	0.80	22	1	—	3.3	—	3	0	0	0	2
" (Surface)	98.3	+3.0	105	6 days	70.8	+3.3	62	5	0.26	—0.01	0.25	22	1	+0.2	2.7	+1.0	3	0	0	0	2
BAHAWALPUR																					
Leiah	96.0	—	104	17,20,21	65.7	—	56	1	4.07	—	3.74	22	2	—	3.0	—	5	0	0	0	3
Khanpur (Surface)	101.7	+3.0	110	16	68.3	+3.6	58	1	(x)	—	—	—	—	—	3.4	—0.7	3	0	0	0	0
" (P.B.O.)	100.3	—	107	10,16	65.7	—	55	1	0.15	—	0.11	22	1	—	3.6	—	3	0	0	0	2
Bahawalpur	99.5	+3.1	108	10,11	68.5	+3.1	60	1,5	0.00	—0.18	0.00	—	0	—0.5	2.5	—0.1	0	0	0	0	1
Fort Abbas	101.0	—	110	11	*	—	*	—	0.00		0.00	—	0	—	3.9	—	0	0	0	0	0
PESHAWAR																					
Chakdara	82.5		92	16,18,30	55.1		48	5,6	4.55		1.97	3	6		3.2		1	0	0	0	0
Peshawar	86.2	+1.0	96	30	60.9	+0.4	50	4	2.26	+0.50	1.81	3	3	—0.8	2.2	+0.3	3	0	0	0	0
Risalpur	88.4	—	101	30	58.9	—	49	5	1.77		1.62	3	2	—	3.6	—	4	0	0	0	0
Haripur	*		*	—	*		*	—	1.30		0.68	3	3	—	5.9	—	1	0	0	0	0
Campbellpur	*				54.4		47	5	1.30		1.20	3	2		(b) 2.4		0	0	0	0	0
D. I. KHAN																					
Kohat	87.0		96	30	65.5	—	53	4	2.57	—	1.66	3	3	—	3.2	—	7	0	0	0	1
Bannu	88.5 (i)	+0.1	98	29	64.9	+2.8	55	4,5	2.54	+1.56	1.00	3,4	4	+1.5	2.4	—	7	0	0	0	0
D. I. Khan	97.1	+4.5	102	16,21	66.8	+1.6	57	5	1.36	+0.67	0.90	22	2	+0.3	0.6	—1.1	1	0	0	0	0

(x) Data not received. (i) Mean for 22 days. (*) Data rejected. (b) Mean for 29 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF APRIL, 1959.

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	103.3	+5.6	118	14	*				0.45	+0.34	0.45	22	1	+0.6	1.5	—1.8	0	0	0	0	0
KALAT (NORTH)																					
Nokkundi	95.7	+5.5	104	20	67.7	+4.6	56	3	0.00	—0.35	0.00		0	—0.4	x		0	0	0	0	0
KALAT (SOUTH)																					
Turbat	104.3		114	16	73.2		64	5,8	0.80		0.75	23	1		x		2	0	0	0	0
Jiwani	92.4		108	17	73.9		67	5,7	0.00		Tr	3	0		6.8		0	0	0	0	0
Pasni	94.2	+3.5	106	18	71.6	+3.8	61	8	0.00	—0.40	Tr	2	0	—0.5	8.3	+1.7	0	0	0	0	1
Ormara	93.5	+3.9	108	17	74.6	+1.5	66	6	0.00	—0.60	0.00		0	—0.8	9.8	+0.2	0	0	2	0	0
Lasbela	(b) 106.3	+8.6	115	16	69.3	+4.5	62	9	0.00	—0.54	0.00		0	—1.2	2.6	—0.1	0	0	0	0	0
FEDERAL CAPITAL AREA																					
Karachi (Manora)	90.6	+5.2	98	18	75.4	+1.2	70	3	0.00	—0.15	0.00		0	—0.2	x		0	0	0	1	0
Karachi (Mauripur)	93.0		101	15	74.2		68	1	0.00		0.00		0		x		0	0	4	0	0
Karachi (City)	92.1		103	8	70.5		58	28	0.00		0.00		0		5.3		0	0	0	0	0
Karachi (P.A.F.)	95.0		103	15,18	73.7		69	4 days	0.00		0.00		0		8.4		1	0	1	0	0
Karachi (Airport)	95.6		104	14,19	72.6		65	6,9,11	0.00		0.00		0		5.6		0	0	3	0	0
HYDERABAD																					
Badin	104.7	+4.3	112	14	71.6	+1.5	65	7	0.00	0.00	0.00		0	0.0	2.1		0	0	0	0	0
Nagarparkar	*				*				0.60		0.60	20	1		*		*	*	*	*	*
Umarkot	105.5		113	15,16	71.2		62	5	0.48		0.45	20	1		4.8		1	1	0	0	0
Chhor	104.2		111	15	68.8		58	5,6	0.26		0.26	19	1		4.3		1	0	0	0	0
Hyderabad	103.7	+1.9	112	16	73.3	+1.4	67	5	0.15	+0.08	0.15	24	1	+0.8	3.1	—2.5	1	0	0	0	2
KHAIRPUR																					
Padidan	103.0		111	16	68.4		59	6	0.00		Tr	22	0		4.6		1	0	0	0	0
Nawabshah	103.1		110	15	68.6		59	5	0.20		0.11	22	1		4.2		3	0	0	1	0
Sukkur	100.4	+2.2	110	16	70.9	+2.5	64	4	0.27	+0.17	0.26	22	1	+0.6	2.9	—0.5	1	0	0	0	1
Kashmore	*				*				0.00		0.00		0		*		*	*	*	*	*
Jacobabad	102.1	+2.5	111	16	73.3	+2.6	64	3	0.05	—0.12	0.04	3	0	—0.5	6.1	+1.4	3	0	0	0	3
JUNAGADH																					
Veraval (x)																					
AFGHANISTAN																					
Jalalabad (x)																					
ARABIA																					
Muscat	88.2	—0.1	98	27	79.9	+1.2	76	5 days	0.00	—0.34	0.00		0	—0.8	3.6	+0.2	0	0	0	0	0
HILL STATIONS																					
KASHMIR																					
Srinagar (x)																					
Gulmarg (x)																					
Gurez (x)																					
Sonamarg (x)																					
Dras (x)																					
Kargil (x)																					
Leh (x)																					
Skardu (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 APRIL, 1959.

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 Figures 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
KASHMIR—(*Continued*)																					
Misgar	57.4	—	70	21	*	—	*	—	0.31	—	0.27	4	1	—	(b) 3.5	—	0	0	0	0	0
Aliabad (x)																					
Gilgit (Surface) (x)																					
RAWALPINDI																					
Murree	66.0	+0.7	78	8,18	50.8	+3.9	34	1	4.29	+0.16	1.31	4	8	+0.9	7.4	+2.2	10	0	1	0	0
PESHAWAR																					
Drosh	74.9	+6.0	91	20	51.0	+2.6	32	4	5.92	+1.84	1.63	3	7	—1.1	3.9	+1.3	5	1	0	0	0
Cherat	74.9	+2.8	85	30	58.8	+3.0	45	3	2.80	+0.02	2.14	3	4	—0.7	5.4	—1.7	2	0	3	0	0
Kakul	77.3	—	84	16,18	56.0	—	42	5	2.82	—	0.81	3	6	—	x	—	12	1	1	0	1
Balakot	78.4	—	86	15,19,30	55.3	—	42	5	4.82	—	1.13	4	9	—	4.5	—	9	0	0	0	0
Landikotal	77.3		89	16	*	—	—	—	3.82	—	2.07	3	5	—	2.1	—	1	0	0	0	0
D. I. KHAN																					
Parachinar	72.2	+3.5	82	15	49.2	+2.3	40	3	7.18	+3.15	3.07	3	6	—2.7	2.5	+0.1	6	0	0	0	0
Miranshah	81.1	+2.8	89	4 days	60.1	+2.9	50	4,5	2.39	+0.76	1.09	3	4	+0.1	*	—	6	1	0	0	0
Wana	78.9	+2.2	88	9	51.0	+1.4	43	1	2.78	+1.41	1.25	3	6	+2.2	2.4	—	9	0	0	0	0
QUETTA																					
Fortsandeman	81.8	+1.5	92	9	56.9	+2.4	47	3	2.69	+1.75	2.02	22	3	—0.1	2.6	—0.1	0	0	0	0	0
Hindubagh	76.6		84	8,20	49.3		41	3	0.94		0.61	3	2		6.0		0	0	0	0	0
Loralai	81.3		89	15	49.4		40	3	1.79	+0.84	1.70	21	1	—1.4	3.9		0	0	0	0	0
Harnai									0.98	+0.23	0.75	21	2	+0.1	x		0	0	0	0	0
Quetta (Samungli)	78.4		86	19	(c) 46.0		37	4	0.24		0.12	3	1		3.3		8	0	0	1	0
Quetta	76.3		85	19	45.9		38	5	0.82		0.37	3	3		3.3	+0.5	0	0	0	0	0
Chaman	83.1	+4.5	92	19	57.2	+1.2	43	3	0.04	—0.73	0.04	3	0	—2.0	x		0	0	0	0	0
KALAT (NORTH)																					
Kalat	(b) 74.6	+3.6	83	8	43.9	+0.4	35	4	0.67	+0.11	0.40	2	2	+0.2	x		0	0	0	0	0
Nushki	91.2		99	19	*				0.25		0.25	3	1		x		1	1	0	0	2
Dalbandin	92.9	+3.7	101	18	59.1	+1.2	49	10	0.08	—0.22	0.05	3	0	—0.7	4.3	0.0	1	0	0	1	1
KALAT (SOUTH)																					
Panjgur	*				*				0.59	+0.20	0.37	3	2	+1.2	x		0	0	0	0	0
AFGHANISTAN																					
Kabul (R)																					
Kandahar	84.2	—	94	20	53.8	—	45	3,4	0.73	—	0.33	3	3	—	1.0	—	3	0	0	0	2

(R) Register not received. (x) Data not available. (b) Mean for 29 days. (c) Mean for 28 days.

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REGD. No. S - 1452

PAKISTAN WEATHER REVIEW, 1959

MONTHLY WEATHER REPORT

May

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U. S. Dept. of Commerce

(PUBLISHED BY THE AUTHORITY OF GOVERNMENT OF PAKISTAN)

Chief Features:

1. Violent thunder squalls at Dacca consecutively for three days from the 4th to 6th.

2. Advance of monsoon into East Pakistan on the 26th causing widespread rain with locally heavy falls till the end of the month.

3. Heat wave along the coastal districts of West Pakistan between the 20th and 23rd under the influence of a depression which formed in east central Arabian Sea and moved away northwestwards.

West Pakistan

Four western disturbances moved eastwards in close succession to the north of the country during the first nine days of the month and caused thunderstorms or showers locally in Peshawar and Rawalpindi divisions frequently during this period and dust or thunderstorms in South Kalat, Khairpur and Hyderabad divisions on the 1st and in D. I. Khan and Multan divisions between the 4th and the 6th. Outbreak of cold air in the wake of one of these disturbances resulted in abnormally cold weather in Quetta division between the 5th and the 9th. According to the newspaper reports the cold air blowing from northwest made the residents of Quetta shiver even under the midday sun while the people in the plains were perspiring in the sweltering heat.

During the remaining part of the first fortnight three westerly low pressure waves moved across the northern parts of the region and caused a few dust or thunderstorms in Peshawar, D. I. Khan, and Rawalpindi divisions between the 10th and the 13th and in Quetta, North Kalat, Khairpur and Hyderabad divisions as well on the last day.

In the beginning of the second fortnight the weather was influenced by the passage of three western disturbances across Russian Turkistan and their associated troughs across West Pakistan. They caused dust and thunderstorms activity practically over the whole region outside Karachi district between the 14th and 18th with fairly widespread rain or thundershowers in Peshawar and Rawalpindi divisions between the 16th and the 18th. Scattered dust/thunderstorms also occurred mainly in the northern half of the province on the 19th. Rohri was hit by the dust storm on the 16th resulting in damage to mango crop while Kabul river was flooded between the 17th and the 18th due to heavy rainfall in the catchment area according to the newspaper reports.

By about the middle of the fortnight a heat wave affected south Kalat and Hyderabad divisions and the Federal Capital Area under the influence of a depression which formed in east central Arabian Sea on the 20th evening and moved away northwestwards across Arabia after crossing coast north of Salalah on the 24th. The highest maximum temperature of 119°F (49°C) was recorded at Lasbela on 20th and 113°F (45°C) at Karachi Airport on the 21st evening. The Northern parts of the region were, however, affected by a westerly low pressure wave which caused scattered thunderstorms or showers in Peshawar and D. I. Khan divisions on the 22nd.

A brief period of dry weather followed between the 22nd and the 26th when the central division and some of the southern division became excessively hot, the highest maximum temperatures ranging between 119°F to 125°F (49°C to 51°C). Jacobabad recorded a maximum of 125°F (51°C) on the 26th. According to the reports appearing in the press a number of people fainted at Multan due to the excessive heat.

Towards the end of the month three westerly low pressure waves moved across the northern parts of the region. They caused scattered to local dust and thunderstorms or showers in Rawalpindi division between the 27th and 31st, in North Kalat, Bahawalpur, Lahore and Multan divisions as well on the 27th and 28th and in Peshawar division on the last day.

Principal amounts of rainfall were:—Drosh 1-1/2" on the 4th; Parachinar 2" on the 16th and Wana 2" on the 17th and Murree and Chakdara 3" each and Chirat 2-1/2"; Drosh, Risalpur and Landikotal 2" each on the 18th.

The total rainfall during the month was in slight defect in Lahore division in moderate defect in Khairpur division and in large defect in the Federal Capital Area and Hyderabad divisions. It was normal in Quetta division and in large excess elsewhere. Averaged over the region as a whole it was in large excess.

The mean maximum temperature was below normal in Rawalpindi, Peshawar. and D. I. Khan divisions, above normal in the Federal Capital Area and Hyderabad divisions and normal elsewhere. The mean minimum temperature was normal over the whole region.

The mean relative humidity was in excess in Lahore and Rawalpindi divisions in defect in Quetta and Kalat divisions and normal over the rest of the region.

The mean cloud amount was in defect in Hyderabad division, normal in Bahawalpur, Quetta and Kalat divisions and in the Federal Capital Area and in excess elsewhere.

East Pakistan

In association with the passage of two low pressure area across the northwestern parts of the province scattered to local thunderstorms or showers occurred in Dacca and Rajshahi divisions between the last and the 3rd, fairly widespread in Dacca and Chittagong divisions and scattered in Rajshahi divisions during the next three days.

Dacca was hit by violent squalls for three days from the 4th to 6th as a result of which considerable damage occurred to property and communications were dislocated according to newspaper reports.

Thereafter, seasonal trough of low pressure became accentuated and continued till the 13th causing fairly widespread rain or thundershowers in Dacca and Chittagong divisions on most of the days and scattered to local rainfall in Rajshahi divisions on some of the days.

As the seasonal low became less marked, only scattered rain fell over the region between the 14th and the 21st except in Dacca division where the weather was dry between the 15th and the 19th while fairly widespread rain fell on the 20th.

Incursion of moist air became well marked and caused local to fairly widespread rainfall over the region between the 22nd and the 25th.

Monsoon advanced into the region on the 26th and remained active till the end of the month causing fairly widespread rain with locally moderate to heavy falls over there.

Noteworthy amounts of rainfall were:—Bogra 3″ on the 1st; Rangpur 3″ on the 13th, Sylhet 3″ on the 8th and 4″ on the 15th; Faridpur 3″ on the 25th and 4″ on the 26th, Barisal 3″ on the 27th; Khulna 5″, Sirajganj 4″, Rangamati and Barisal 3″ each on the 27th; Maijdee Courts and Faridpur 3″ each on the 29th; Sylhet and Dinajpur 3″ each on the 30th and Mymensingh 5″ on the 31st.

The total rainfall during the month was in moderate excess over the region outside Chittagong division where it was normal. Averaged over the region it was in slight excess.

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

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

Table 1 contains the divisional means of rainfall, temperature relative humidity and the cloud amount for the 15 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, 1959.

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	11.67	12.43	—0.76	—6	+0.9	+1.3	+1.0	0	+0.8
Dacca	12.83	9.99	+2.84	+28	+1.1	+0.5	+1.4	+2	+1.3
Rajshahi	11.36	7.80	+3.56	+46	+0.8	+1.9	+1.7	+3	+0.7
Mean	11.89	9.87	+2.02	+20	+0.9	+1.3	+1.4	+2	+0.9
WEST PAKISTAN									
Kashmir (x)...									
Lahore	0.69	0.79	—0.10	—13	—1.9	+0.5	+1.0	+6	+0.7
Rawalpindi	3.05	1.54	+1.51	+98	—3.2	+0.4	+1.8	+7	+1.5
Multan	0.65	0.37	+0.28	+76	—1.8	—1.6	+0.5	+5	+0.4
Bahawalpur	1.61	0.18	+1.43	+794	—1.3	—0.1	+0.1	+3	—0.1
Peshawar	4.43	1.44	+2.99	+207	—3.5	—0.8	—0.1	—1	+1.1
D. I. Khan	2.24	1.05	+1.19	+113	—2.1	—0.1	+0.6	+2	+0.2
Quetta	0.47	0.46	+0.01	+2	0.0	—1.0	—0.3	—7	+0.2
Kalat	0.19	0.12	+0.07	+58	+0.3	+0.8	—1.5	—6	—0.1
Federal Capital Area	0.00	0.06	—0.06	—100	+3.3	+1.1	+2.2	+1	+0.2
Hyderabad	0.00	0.20	—0.20	—100	+2.6	+1.6	—0.1	—1	—0.6
Khairpur	0.09	0.14	—0.05	—36	—1.1	—0.3	—2.7	—3	+0.1
Mean	1.00	0.44	+0.56	+127	—0.5	+0.2	—0.5	—2	+0.1
Junagadh (x)									

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1959.

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
	GTM.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
EAST PAKISTAN																							
Chittagong Division																							
Rangamati	0000	208	999.2		1006.4	76.6	74.4	73.2	28.2		90		4.7		3	0	1	1	14	1	1	0	10
	0300		1000.7		1007.9	83.1	77.0	73.6	28.9		15		4.5		2	0	4	1	21	0	1	0	2
	1200		997.0		1004.0	84.7	76.8	73.6	27.9		68		3.4		2	1	2	0	22	1	2	0	1
Cox's Bazar (P.T.)	0300	38	1006.3	+0.5	1007.6	86.8	80.6	78.3	32.9	+1.5	75	−3	3.8	−0.6	0	0	0	7	17	4	2	1	0
	1200		1003.1		1034.3	85.6	80.2	78.1	32.7		78		3.9		0	0	0	5	14	10	1	1	0
Chittagong (Patenga)	0000	20	1004.7		1005.4	78.9	77.5	76.3	31.6		93		5.4		0	1	3	22	3	0	0	0	2
	0300		1006.2		1006.9	85.9	79.9	77.5	32.2		76		5.3		0	0	1	18	10	1	0	0	1
	1200		1002.6		1003.3	84.9	79.9	77.8	32.7		79		5.9		0	1	1	2	18	7	0	1	1
Chittagong	0300	46	1005.3	−0.3	1006.9	84.1	79.0	76.9	31.5	+1.1	79	+2	4.8	+0.4	0	0	0	7	16	5	1	0	2
	1200		1001.8		1003.3	83.9	79.2	77.3	32.0		79		4.3		1	0	1	0	9	15	4	0	1
Maijdee Court	0000	25	1004.0		1004.9	80.4	77.7	76.6	31.1		89		4.3		1	2	0	2	12	0	1	0	13
	0300		1005.3	−0.5	1006.2	85.5	80.2	77.5	31.9	+0.1	77	−2	5.5	+1.6	0	0	0	2	19	1	1	1	7
	1200		1002.3		1003.2	85.0	82.2	77.9	32.7		79		3.8		0	0	0	2	24	2	0	0	3
Comilla	0000	29	1003.2		1004.2	77.5	76.1	75.7	30.1		92		5.4		0	0	0	0	8	0	0	0	22
	0300		1004.7	−1.0	1005.7	83.6	80.0	76.6	33.3	+2.3	84	+9	5.0	+1.2	0	0	0	0	13	0	0	0	18
	1200		1001.5		1002.5	84.2	79.2	76.8	32.0		79		5.0		0	0	0	0	17	0	0	0	14
Brahmanbaria	0000	32	1003.2		1004.3	77.9	75.5	74.4	29.0		89		5.5		0	0	4	3	13	0	0	0	11
	0300		1004.9		1006.0	84.0	78.0	75.8	30.0	+1.1	75	+0	5.2		0	0	0	10	14	2	2	0	3
	1200		1000.9		1002.0	84.8	78.9	76.7	31.1		75		4.3		0	1	2	8	14	1	0	0	5
Srimangal	0000	69	1003.2		1005.6	74.5	72.7	71.5	26.9		91		5.0		0	0	1	0	0	0	0	0	30
	0300		1004.2	−0.5	1006.6	81.9	76.5	74.4	28.7	−0.2	77	−4	5.6	+1.4	0	0	0	5	6	0	0	0	20
	1200		1000.0		1002.4	82.4	76.7	74.2	28.8		76		4.4		0	0	1	1	4	2	0	0	23
Sylhet (P.B.O.)	0000	115	1000.7		1004.7	73.5	72.4	71.6	26.3		95		7.0		0	1	19	1	0	0	1	0	9
	0300		1002.5		1006.6	77.9	75.0	73.4	28.3		87		6.9		0	2	22	2	1	0	0	0	4
	1200		998.1		1002.1	81.0	76.6	74.6	29.3		81		5.0		0	4	14	2	0	0	0	0	11
Dacca Division																							
Mymensingh	0000	62	1002.1		1004.2	78.4	74.1	73.1	26.7		81		5.6		0	0	4	14	0	0	0	0	13
	0300		1004.0	−0.8	1006.1	80.8	76.7	74.9	29.5	+0.9	82	+3	6.0	+0.8	0	0	1	23	1	1	1	0	4
	1200		999.2		1001.4	84.9	78.5	76.0	30.4		73		4.7		0	0	3	16	2	2	2	0	6
Narayanganj	0000	26	1002.6		1003.5	79.3	77.2	76.7	30.9		91		5.0		0	0	6	6	14	1	0	0	4
	0300		1004.3	−1.2	1005.2	84.9	79.3	77.1	31.0	+0.8	77	0	6.6	+1.8	0	0	5	5	19	2	0	0	0
	1200		1000.7		1001.6	86.5	80.2	79.6	32.3		75		4.5		1	0	1	8	18	0	1	1	1
Dacca (Tejgaon)	0000	27	1002.1		1003.0	78.2	76.6	75.7	30.5		93		5.6		0	0	3	7	15	2	0	0	4
	0300		1003.6		1004.5	83.8	79.2	77.3	32.0		81		6.2		1	0	4	5	15	5	0	0	1
	1200		999.9		1000.8	84.3	78.7	76.3	30.9		77		4.9		1	0	2	9	13	1	1	1	1

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1959.

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
	GTM.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Dacca Division																							
Faridpur	0000	46	1001.9		1003.5	78.2	76.6	76.0	30.5		93		4.0		1	0	0	11	18	0	0	1	0
	0300		1003.3	—1.0	1004.9	84.7	80.1	78.4	33.5	+2.2	81	+4	5.5	+1.4	0	0	1	6	20	3	1	0	0
	1200		1000.9		1002.5	86.8	80.4	77.5	32.6		74		5.0		0	0	0	9	17	4	0	1	0
Barisal	0000	11	1003.4		1003.8	80.5	78.4	77.6	32.2		91		2.7		0	0	1	1	15	0	0	0	14
	0300		1005.3	—0.5	1005.7	87.7	81.3	79.0	33.9	+1.6	75	0	5.8	+1.3	0	0	3	7	16	2	0	0	3
	1200		1001.5		1001.9	85.4	80.1	78.0	32.7		78		4.8		0	0	2	3	20	2	1	0	3
Rajshahi Division																							
Khulna	0000	16	1002.8		1003.3	80.4	79.0	78.5	33.2		94		3.0		0	0	0	0	14	0	0	0	17
	0300		1004.4	—0.8	1004.9	87.3	82.3	80.5	35.5	+3.6	80	+5	5.0	—0.1	0	0	0	1	20	3	0	0	7
	1200		1000.7		1001.2	86.2	81.2	79.2	34.1		80		3.7		0	0	0	3	20	0	0	2	6
Satkhira	0000	16	1002.4		1003.0	81.0	78.6	77.6	32.3		89		2.5		0	0	0	0	0	4	0	0	27
	0300		1004.0	—0.8	1004.6	88.7	81.2	77.9	32.9	+0.7	71	—3	5.0	+1.0	0	0	0	1	8	11	0	0	11
	1200		1000.8		1001.4	87.9	80.1	76.9	31.5		70		4.0		0	1	1	1	13	6	0	0	9
Jessore	0000	26	1001.7		1002.6	80.2	78.0	77.0	31.8		90		3.6		0	1	3	3	21	2	0	0	1
	0300		1002.9	—1.9	1003.8	86.8	80.9	78.4	32.2	+0.4	76	—1	5.0	+0.7	0	0	1	1	26	3	0	0	0
	1200		1000.0		1000.9	88.7	79.5	75.6	30.4		65		3.7		2	0	3	2	23	1	0	0	0
Pabna	0000	48	999.8		1001.4	78.1	76.4	75.7	30.3		92		4.4		0	5	1	23	0	2	0	0	0
	0300		1001.6		1003.2	84.8	80.0	78.2	32.8	+1.6	80	+1	(a) 4.3		0	2	1	17	6	4	0	1	0
	1200		997.0		998.6	87.1	78.9	75.2	30.0		68		(b) 4.9		0	2	2	17	5	0	2	3	0
Sirajganj	0000	51	1001.4		1003.1	77.3	75.5	75.0	29.3		92		5.2		0	0	3	4	15	0	0	0	9
	0300		1002.2		1004.0	83.1	78.5	76.1	31.4		81		6.6		0	1	0	8	13	1	0	0	
	1200		997.7		999.5	84.9	79.2	76.6	31.5		76		5.3		0	0	4	1	12	1	1	0	12
Rajshahi	0000																						
	0300												4.0										
Bogra (P.B.O.)	0000	65	1000.6		1002.8	77.1	75.9	75.5	30.0		94		5.3		1	3	11	9	3	1	0	0	3
	0300		1002.4	—1.3	1004.5	82.3	78.7	77.2	31.8	+3.0	85	+8	5.8	+1.5	0	3	8	12	5	2	0	1	0
	1200		997.5		999.7	85.7	80.3	78.0	32.9		78		3.5		0	3	14	10	2	0	0	1	1
Dinajpur	0000	123	998.2		1002.4	76.4	74.1	72.7	27.8		89		5.3		0	4	15	0	0	0	0	0	12
	0300		999.9	—1.7	1004.1	80.3	76.1	74.0	28.8	+1.2	82	+5	5.0	+0.6	0	1	16	0	0	0	0	0	14
	1200		995.2		999.3	86.7	78.3	74.3	29.3		69		2.8		0	0	20	0	0	0	0	0	11
Rangpur	0000					75.3	73.8	73.3	27.8		93		5.2		3	2	15	6	4	0	0	0	1
	0300					79.3	76.2	74.7	29.5		87		5.9		2	7	12	9	0	0	0	1	0
	1200					85.0	79.4	77.0	31.7		77		3.3		3	6	6	12	2	0	0	0	2

(a) Observation for 30 days. (b) Observation for 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1959.

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 (Jail Road)	0000	702	976.4		1000.6	74.6	64.1	56.0	15.7		53		1.7		1	1	1	5	0	1	2	2	18
	0300		977.7	—1.1	1001.5	83.1	67.9	57.2	16.5	+1.0	42	+6	1.8	+0.3	4	3	0	10	1	1	4	2	6
	1200		975.4		998.4	98.9	71.1	51.2	13.4		21		2.0		0	4	1	2	1	2	4	8	9
,, (Cantt.)	0000	703	975.7		1000.0	75.4	64.4	55.9	15.7		52		2.1		4	2	4	6	2	3	2	6	2
	0300		977.1	—	1001.1	83.0	68.0	57.9	16.4		43	—	2.0	—	6	2	4	10	0	1	4	4	0
	1200		974.7		997.9	98.8	71.8	53.1	14.4		23		2.2		2	1	2	2	3	4	4	12	1
,, (Walton)	0000	699																					
	0300		977.4	—	1001.0	83.5	69.1	59.7	17.8	—	53	—	1.8	—	2	0	2	12	2	0	0	11	2
	1200		974.7		997.6	99.1	73.2	56.2	16.1		25		1.9		3	2	1	3	2	4	3	9	4
Sialkot	(a) 0000	830	*		*	76.7	x	55.7	x		x		1.4		0	10	0	1	0	0	0	0	19
	0300		973.3	—1.4	1001.3	84.1	x	59.0	x		x		2.3	+1.1	0	10	0	8	0	0	0	1	12
	(a) 1200		970.8		997.9	97.7	x	58.1	x		x		2.4		0	6	0	5	0	8	0	7	4
RAWALPINDI																							
Jhelum	0000	765	974.0		1000.3	74.9	63.9	55.5	15.4		52		3.1		0	3	0	0	0	1	1	9	17
	0300		975.7	—	1001.6	83.4	66.9	54.9	15.1	—	38	—	3.1	—	1	1	1	6	1	0	0	11	10
	1200		972.7		997.9	96.9	70.5	50.3	13.5		22		3.0		1	3	1	2	6	4	1	11	2
Chakala	0000	1667	945.2		1001.7	72.1	62.1	55.2	15.0		57		3.7		2	7	3	1	0	1	3	4	10
	0300		946.4	—	1002.1	79.9	65.6	55.9	15.7	—	45	—	3.9	—	4	6	5	4	0	1	5	3	3
	1200		944.4		998.7	92.5	68.3	53.3	13.8		27		3.8		0	4	5	5	2	0	5	4	6
Rawalpindi	0000	1676	945.0		1001.8	72.9	62.1	54.1	14.6		53		2.9		3	3	3	1	2	1	6	3	9
	0300		945.9	—1.6	1001.8	81.3	65.4	54.4	16.0	+1.8	40	+7	3.5	+1.8	3	1	2	2	1	3	2	4	13
	1200		944.2		998.7	92.8	68.3	52.0	13.6		26		4.0		4	1	1	1	2	0	15	2	5
Khushab	0000	616	979.6		1000.7	76.9	65.2	59.2	16.0		50		0.9		1	3	10	1	0	0	0	0	16
	0300		980.7	—1.5	1001.4	85.6	70.2	60.3	18.2	+3.5	43	+9	0.9	—0.4	1	6	9	1	0	1	0	0	13
	1200		978.6		998.9	97.4	74.7	61.2	19.0		31		1.5		3	2	12	4	0	1	0	4	5
Sargodha	0000	603	979.2		1000.1	75.7	65.7	60.1	18.4		63		2.4		4	7	8	1	1	1	4	0	5
	0300		980.7		1001.2	83.3	69.6	61.1	19.1		47		2.2		6	10	5	1	0	1	2	2	4
	1200		978.1		998.1	97.5	72.5	56.2	17.1		26		3.0		2	6	7	0	1	4	3	7	1
MULTAN																							
Lyallpur	0000	605	979.3		1000.2	74.8	64.9	57.8	16.6		56		1.1		0	8	0	2	0	0	0	4	17
	0300		980.4	—1.7	1001.0	79.9	67.6	59.4	17.8	+3.4	49	+13	1.7	—0.2	2	4	1	4	0	0	0	6	14
	1200		978.1		998.0	98.5	72.8	55.6	15.9		26		2.4		3	6	4	1	2	3	0	5	7
Montgomery	0000	558	981.6		1000.7	74.5	65.2	58.5	17.0		59		1.7		0	1	0	7	0	1	0	4	18
	0300		982.6	—0.9	1001.5	82.5	69.9	62.6	19.3	—1.8	51	+1	1.3	+0.4	0	0	0	3	0	1	0	2	25
	1200		980.2		998.4	99.6	74.3	58.2	15.7		24		0.6		0	2	0	5	0	1	0	0	23
Multan (P.B.O.)	0000	404	985.7		999.7	76.1	66.5	60.0	17.9		59		1.9		6	0	2	3	4	1	1	2	12
	0300		987.6	—	1001.4	84.1	70.5	62.4	19.4	—	48	—	1.5	—	8	3	1	0	3	2	5	4	5
	1200		984.4		997.6	101.7	75.4	60.3	18.1		26		1.7		6	5	0	0	5	10	1	0	4
Multan (Surface)	0300	413	987.3	—1.2	1001.3	83.4	70.7	62.8	19.9	—0.2	49	+2	1.8	+1.0	2	11	0	3	1	6	0	1	7
	1200		984.3		997.8	102.6	75.4	59.3	17.7		26		1.7		4	2	3	0	3	6	2	2	9

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1959.

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										
BAHAWALPUR																							
Lejah	(c) 0000	490	*		*	75.1	*		—		—		1.2		5	0	0	0	2	0	0	0	21
	0300		*	—	*	(b) 80.3	*		—	—	—	—	(a) 3.1	—	8	0	1	(a) 0	1	0	0	2	18
	1200		*		*	101.1	*		—		—		1.8		5	1	0	0	9	0	2	2	12
Khanpur (Surface) (R)	0300	297	991.2	—1.8	1001.3	86.0	71.6	62.8	19.2	+1.1	47	+4	0.6	0.0	3	4	1	1	2	6	4	4	6
	1200		987.7		997.4	106.0	75.0	55.5	15.5		20		0.9		2	3	0	0	0	7	9	6	4
" (P.B.O.)	0000	290	990.0		1000.0	76.7	66.0	58.0	17.1		54		0.7		3	2	0	0	0	4	1	3	18
	0300		991.5		1001.5	85.1	70.5	61.0	18.9		46		0.6		1	5	0	0	0	6	5	0	14
	1200		987.9		997.4	104.6	72.7	49.5	12.1		17		1.2		2	5	0	0	1	7	10	1	5
Bahawalpur	0300	384	988.2	—0.9	1001.3	83.0	69.4	60.7	19.7	—0.8	49	+3	1.0	—0.1	3	2	1	0	5	5	1	1	13
	1200		984.8		997.4	104.1	77.9	64.2	20.7		30		1.4		1	5	1	0	3	7	0	2	12
Fort Abbas	0000	475	*		*	(a) 77.0	(b) 64.6	54.4	15.1		47		1.3		0	6	1	12	0	11	0	1	0
	0300		986.0		1002.1	87.5	67.9	52.3	14.5		33		0.9		2	5	3	9	1	11	0	0	0
	1200		982.2		997.8	(a) 104.4	(a) 71.8	47.7	11.8		15		0.6		4	4	0	2	2	11	0	8	0
PESHAWAR																							
Chakdara	0000	2197	927.4		1001.8	67.3	61.4	56.9	16.1		70		2.6		0	1	0	1	0	0	5	0	24
	0300		928.6		1002.7	71.4	63.5	58.3	16.8		63		3.6		2	2	3	2	0	1	1	0	20
	1200		925.6		997.6	86.2	(d) 69.2	59.9	17.5		41		3.2		2	0	4	2	2	4	9	0	8
Peshawar	0000	1177	961.9		1002.1	73.1	62.6	53.9	14.7		53		3.3		1	1	2	2	8	3	2	1	11
	0300		963.3	—1.4	1003.0	80.0	65.9	55.2	15.4	+1.3	44	+8	3.3	+0.8	7	2	1	5	3	2	0	2	9
	1200		960.6		999.4	91.5	68.2	50.2	13.0		25		3.5		2	13	4	0	1	2	1	4	4
Risalpur	0000	1009	967.4		1002.1	70.8	63.9	58.9	17.2		66		3.3		0	0	1	2	0	4	9	5	10
	0300		968.8		1003.1	79.0	67.6	60.2	17.9		52		3.1		1	2	1	3	0	2	10	6	6
	1200		966.0		999.3	93.8	73.3	60.3	18.7		35		3.8		1	3	3	0	0	0	6	12	6
Haripur	0300	1757	942.8		1001.6	78.2	66.7	59.7	17.7		53		3.0		1	3	1	6	1	18	0	1	0
	1200		*		*	87.7	*	—	—		—		2.4		0	2	1	7	0	20	0	1	0
Campbellpur	0300	1175	962.9		1002.7	78.7	66.6	58.5	16.8		51		3.0		5	5	3	3	0	0	0	1	14
	1200		960.4		999.0	94.3	71.0	56.1	15.3		27		2.8		13	0	1	3	3	1	0	3	9
D. I. KHAN																							
Kohat	0000	1667	946.2		1002.3	76.5	62.1	51.3	13.3		42		2.5		2	1	0	0	0	0	2	17	9
	0300		947.6		1003.2	81.1	64.5	52.7	14.0		39		2.7		0	5	0	1	1	0	3	10	11
	1200		945.4		999.8	91.4	67.0	49.5	12.7		25		2.9		6	3	3	1	0	1	1	7	9
Bannu	0000	1263	957.9		1000.8	75.2	64.4	55.5	15.7		53		1.3		0	0	1	0	1	1	8	5	15
	0300		958.6		1001.3	78.7	66.3	58.1	16.5	+2.1	49	+10	1.7	+0.7	1	2	0	0	0	0	2	5	21
	1200		956.3		997.7	94.1	69.4	52.5	13.4		25		2.8		0	2	2	13	1	1	0	0	12
D. I. Khan	0000	570	980.4		1000.0	77.6	*	—	—		—		0.4		0	1	0	0	0	0	0	2	28
	0300		982.2	—1.4	1001.4	84.7	*	—	—	—	—	—	1.6	+0.6	3	7	0	1	0	0	0	5	15
	1200		(b) 979.3		(b) 997.9	(b) 98.0	*	—	—		—		2.2		1	7	1	0	0	2	0	2	18

(R) Register not received. (a) Mean for 30 days. (b) Mean for 29 days. (c) Mean for 28 days. (d) Mean for 27 days. (*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1959.

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	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Sibi	0000	441	*			82.8	61.2	40.3	8.8		23		1.5		0	1	0	1	1	0	1	4	23
	0300		986.7	—0.6	1001.6	85.5	65.3	48.4	12.2	—0.4	29	+1	1.4	+0.4	0	1	0	2	2	1	4	7	14
	1200		982.9		997.1	107.7	71.4	42.6	9.8		11		1.7		0	1	1	4	9	5	4	7	0
KALAT (NORTH)																							
Nokkundi	0000	2229	928.9		1003.1	77.4	57.5	40.1	8.1		25		0.0		14	4	0	1	1	3	2	6	0
	0300		930.4		1003.9	83.2	60.8	43.3	9.1	—6.4	23	—17	0.0	—1.0	10	3	4	3	2	0	4	5	0
	1200		927.1		998.0	99.4	66.3	40.0	8.6		13		0.1		9	0	1	2	6	2	1	10	0
KALAT (SOUTH)																							
Turbat	0000	510	985.0		1002.6	83.6	73.3	65.8	23.3		59		0.1		0	0	6	0	3	4	17	0	1
	0300		988.3		1005.4	86.8	77.2	72.4	27.5		63		0.4		0	1	6	1	1	3	16	3	0
	1200		984.1		1000.7	108.7	82.5	69.7	25.9		31		0.9		0	0	2	0	2	6	19	2	0
Jiwani	0000	185	996.9		1003.3	80.5	77.5	76.0	30.8		87		0.5		0	0	0	1	1	10	11	0	8
	0300		998.4		1004.6	83.9	78.5	75.8	30.4		76		1.0		0	0	2	1	3	7	10	4	4
	1200		996.1		1002.3	91.3	78.4	72.3	27.3		54		1.0		0	0	0	0	7	21	3	0	0
Pasni	0000	28	1002.1		1003.1	79.2	77.7	76.8	31.7		93		1.2		0	1	1	0	0	1	14	3	11
	0300		1003.5	—1.1	1004.4	83.1	79.9	78.6	33.4	+4.1	86	+5	1.6	—0.1	0	0	1	0	0	2	14	3	11
	1200		1000.4		1001.3	91.6	83.8	80.7	36.0		71		0.9		0	0	0	0	2	29	0	0	0
Ormara	0000	15	1001.9		1002.4	81.2	77.2	75.3	30.1		83		3.0		0	0	0	0	1	3	17	0	10
	0300		1003.6		1004.1	85.5	78.0	74.3	29.3	—1.3	70	—13	2.3	+0.3	0	0	0	0	0	3	15	1	12
	1200		1000.3		1000.8	92.7	77.0	68.5	24.6		47		0.8		0	0	0	0	2	7	22	0	0
Lasbela	0000	292	*			80.8	75.5	72.8	27.8		77		0.5						*				
	0300		994.6	—0.4	1004.6	83.8	77.5	74.2	29.4	—0.2	74	—1	0.5	—0.9					*				
	1200		990.3		999.8	103.8	80.5	68.6	24.9		34		1.0						*				
FEDERAL CAPITAL AREA																							
Karachi (Manora)	0000	13	1002.1		1002.6	81.9	79.3	78.2	32.9		89		1.7		0	0	0	0	0	7	18	1	5
	0300		1003.6	—1.4	1004.1	83.3	80.0	78.7	33.2	+2.2	86	+1	2.8	+0.2	0	0	0	0	0	7	15	1	8
	1200		1001.0		1001.4	87.9	82.7	80.8	35.9		79		1.6		0	0	0	0	0	10	21	0	0
Karachi (Mauripur)	0000	52	1000.6		1002.4	81.5	78.9	77.7	32.6		89		0.8		0	1	0	0	0	5	20	1	4
	0300		1002.1		1003.9	85.1	80.3	78.0	33.1		80		2.9		0	1	0	0	0	5	20	5	0
	1200		999.5		1001.2	90.1	82.2	79.1	34.0		70		1.0		0	0	0	0	0	20	10	1	0
Karachi (City)	0300	20	1002.9		1003.6	85.4	80.8	78.5	33.8		81		2.4		0	0	1	0	0	8	19	3	0
	1200		1000.2		1000.9	89.3	83.5	81.1	36.6		78		1.8		0	0	0	0	1	19	10	1	0
Karachi (P.A.F.)	0000	38	1001.0		1002.9	82.0	78.6	77.4	31.9		85		1.3		0	0	0	0	0	22	7	0	2
	0300		1002.9		1004.2	85.2	79.5	78.3	32.0		77		2.5		0	1	0	0	0	15	14	0	1
	1200		1000.2		1001.5	94.6	82.3	78.4	32.1		58		1.0		0	0	0	0	0	30	1	0	0
Karachi (Airport)	0000	73	1000.1		1002.6	81.4	77.4	75.5	30.3		83		1.3		0	0	0	0	0	9	13	0	9
	0300		1001.7		1004.2	85.0	78.4	75.2	29.7		73		2.8		0	0	0	0	2	6	18	1	4
	1200		998.9		1001.4	92.1	78.9	72.6	27.7		54		1.2		0	0	0	0	2	21	8	0	0
HYDERABAD																							
Badin	0000	31	1001.2		1002.3	80.3	73.8	70.0	25.6		72		0.0		0	0	0	0	0	31	0	0	0
	0300		1002.8	—0.4	1003.8	83.1	75.3	71.0	26.4	—2.1	68	—2	0.0	—1.2	0	0	0	0	0	31	0	0	0
	1200		999.5		1000.6	102.4	77.9	64.2	21.5		30		0.0		0	0	0	0	0	31	0	0	0
Nagarparkar	0000	178	*			85.0	*	*					0.0		2	0	0	0	1	7	16	1	4
	0300		*			88.5	*	*					0.0		3	0	0	0	0	6	18	0	4
	1200		*			107.6	*	*					0.6		1	0	0	0	2	0	24	0	4

(*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1959.

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										
Umarkot	0000	55	999.2		1001.1	79.8	75.5	73.1	28.2		81		0.2		0	0	1	1	8	19	0	0	2
	0300		1001.4		1003.3	84.4	77.6	74.1	29.2		72		1.6		0	0	0	0	8	19	1	0	3
	1200		996.7		998.5	106.9	79.1	63.6	21.3		26		1.1		1	0	0	0	0	19	7	4	0
Chhor	0000	19	1000.6		1001.3	78.4	72.4	70.8	24.5		73		1.2		0	0	0	0	1	25	1	0	4
	0300		1002.1		1002.8	85.3	76.6	72.3	27.3		66		1.4		0	0	2	0	1	23	3	0	2
	1200		998.1		998.7	105.6	74.9	54.4	15.6		20		1.0		0	0	0	0	0	20	10	0	1
Hyderabad	0000	98	997.9		1001.3	81.4	74.3	70.5	25.8		70		0.3		1	0	0	0	2	16	0	0	12
	0300		999.4	—1.1	1002.8	86.2	75.5	69.8	25.3	+1.8	59	0	0.5	0.0	1	0	0	0	0	21	1	0	8
	1200		996.1		999.3	104.1	74.6	54.5	15.8		21		0.6		0	1	0	1	0	20	3	0	6
KHAIRPUR																							
Padidan	0000	153	994.8		1000.1	78.6	66.5	57.9	17.7		51		0.0		1	1	0	7	10	4	2	3	3
	0300		996.4		1001.6	87.1	70.3	58.1	18.5		40		0.5		0	2	1	9	5	8	4	0	2
	1200		993.1		998.2	107.9	70.7	38.5	10.8		11		0.7		1	3	0	0	5	8	2	8	4
Nawabshah	0000	124	996.2		1000.5	77.7	68.6	62.7	19.8		61		0.3		0	0	1	1	9	5	2	0	13
	0300		998.1		1002.3	87.8	73.3	65.2	21.4		47		0.6		0	1	0	0	15	7	0	0	8
	1200		994.6		998.7	107.2	74.5	51.9	14.3		18		1.0		0	0	0	0	4	12	1	3	11
Sukkur	0300	221	993.7	—1.4	1001.2	83.5	71.3	63.6	20.9	0.0	52	—1	0.4	0.0	0	3	1	5	2	5	0	2	13
	1200		990.4		997.7	105.2	76.4	60.2	17.5		23		1.5		3	1	0	1	4	4	0	2	16
Kashmore*	0000	255																					
	0300																						
	1200																						
Jacobabad	0000	183	993.4		999.7	81.9	68.5	59.6	17.7		47		0.3		3	0	17	0	7	2	2	0	0
	0300		995.3	—1.0	1001.5	87.5	70.8	60.3	18.2	—5.5	41	—6	0.8	+0.3	3	1	8	11	2	0	5	0	1
	1200		991.5		997.4	108.3	74.7	51.2	14.1		17		1.4		1	1	0	7	6	4	7	4	1
JUNAGADH																							
Veraval (x)	0000	26																					
	0300																						
	1200																						
AFGHANISTAN																							
Jalalabad (x)	0300	1950																					
	1200																						
ARABIA																							
Muscat	0300	20	1003.9		1004.6	88.2	77.4	72.9	26.7		59		0.8	+0.2	0	0	4	0	0	0	5	2	20
	1200		1002.1		1002.8	89.7	79.5	74.9	30.4		63		1.8		1	1	15	1	0	0	1	4	8
HILL STATIONS																							
KASHMIR																							
Srinagar (x)	0000	5205																					
	0300																						
	1200																						

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1959.

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	6	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	10059																					
	1200																						
Kargil (x)	0300	...																					
	1200																						
Leh (x)	0300	...																					
	1200																						
Skardu	0000	7250																					
	0300																						
	1200																						
Misgar	0000	10190	*		*	34.3	29.6	21.9	4.1		56		3.6		0	0	1	0	0	0	0	0	30
	0300		698.7	—	3089.0	43.9	35.9	25.0	4.7	—	41	—	3.8	—	0	0	4	0	0	0	0	0	27
	1200		696.1		3058.8	51.3	42.0	26.9	5.4		30		4.7		0	0	9	2	0	0	11	0	9
Aliabad (x)	0300	6850																					
	1200																						
Gilgit (Surface) (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	779.9		1438.9	56.5	47.8	38.8	8.2		53		4.5		0	4	6	6	0	1	0	11	3
	0300		781.7	—1.7	1450.5	61.8	50.8	40.6	8.7	+0.2	47	+6	5.0	+3.0	1	4	5	10	2	0	3	3	3
	1200		780.9		1437.0	65.4	53.9	44.1	10.1		47		5.2		0	4	5	6	0	1	7	8	0
PESHAWAR																							
Drosh	0000	4806	850.3		1467.1	59.7	50.8	40.5	9.1		52		3.5		0	6	3	1	0	0	0	0	21
	0300		851.1	—1.2	1474.3	63.7	53.1	41.8	9.5	—1.6	48	—9	3.5	+1.5	0	3	6	0	0	0	0	0	22
	1200		848.0		1443.0	74.2	56.4	35.9	8.3		28		4.8		3	8	1	0	0	6	0	1	12
Cherat (x)	0000	4872	863.9		1438.7	67.2	*	—	—		—		2.4		12	3	0	7	6	0	0	2	1
	0300		864.6	—1.6	1446.5	68.8	*	—	—	—	—		2.6	+0.9	10	3	0	5	10	0	0	2	1
	1200		863.6		1439.7	79.6	*	—	—		—		3.0		6	3	0	9	8	0	1	1	3
Kakul	0000	4214	865.8		1440.0	64.7	55.0	46.1	10.8		52		4.4		10	7	2	1	2	0	0	9	0
	0300		866.9	—	1452.2	69.0	57.5	47.9	11.5	—	48	—	4.6	—	3	1	3	3	3	3	1	14	0
	1200		865.0		1440.6	77.9	(a) 62.8	46.0	13.4		41		4.0		0	3	3	2	8	5	3	7	0
Balakot	0000	3226	x		x	66.3	(a) 57.5	53.8	12.5		57		4.6		9	0	0	0	0	0	0	9	13
	0300		x	—	x	68.8	(c) 57.3	51.8	11.4	—	48	—	5.0	—	7	0	0	0	0	0	0	6	18
	1200		x		x	80.8	(f) 65.9	61.4	15.8		44		5.1		8	0	0	1	1	0	0	6	15
Landikotal	0000	3503	887.1		1431.7	66.7	55.8	45.1	10.8		48		2.7		0	0	0	0	0	7	0	0	24
	0300		888.3	—	1447.0	72.8	57.5	42.4	10.0	—	36	—	2.6	—	0	0	0	1	0	19	0	0	11
	1200		886.4		1435.2	82.2	60.8	40.7	9.5		25		3.6		2	5	0	3	1	10	0	1	9

(x) Data not available. (a) Mean for 30 days. (f) Mean for 25 days.
(*) Data rejected. (c) Mean for 28 days. (e) Mean for 17 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1959.

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										
D. I. KHAN																							
Parachinar	0000	5673	822.3		1448.7	(c) 58.2	49.7	(c) 42.9	(c) 9.1		55		2.1		15	0	0	0	0	1	0	4	11
	0300		822.8	—1.5	1450.7	(b) 63.0	(b) 53.0	(b) 44.5	10.1	+0.3	44	—2	2.3	+0.5	3	1	3	3	2	1	4	1	13
	1200		821.8		1434.2	*	*		..		—		4.5		1	2	3	15	1	1	1	4	3
Miranshah	0000	3026	901.0		1422.7	71.4	*	—	—		—		1.0		0	1	0	0	0	0	0	0	30
	0300		902.2	...	1438.2	76.8	*	—	—	—	—	—	0.7	—0.3	0	5	0	0	0	0	0	0	26
	1200		900.3		1429.1	87.9	*	*	—		—		2.5		0	16	0	0	0	1	0	0	14
Wana	0300	4503	857.9	...	1452.4	69.9	55.3	42.0	9.4	—0.7	39	—3	1.1	—0.4	0	0	1	4	10	8	2	0	6
	1200		855.2		1426.5	83.6	57.3	30.5	5.5		14		1.6		1	3	4	4	4	8	4	3	0
QUETTA																							
Fort Sandeman	0300	4614	855.9	—0.5	1464.4	73.3	58.2	46.0	10.5	+1.4	37	—17	1.2	0.0	0	0	0	0	2	10	3	0	16
	1200		853.7		1443.2	87.5	63.1	42.0	9.8		21		3.2		2	0	1	3	2	8	7	4	4
Hindubagh	0000	5909	*			59.8	*	*					0.0		0	0	0	0	0	4	6	7	14
	0300		*			66.3	*	*					0.0		0	0	0	0	0	6	2	3	20
	1200		*			81.1	*	*					0.0		0	0	1	0	0	8	9	9	4
Loralai	0000	4699	850.8		1438.2	63.3	52.3	39.9	8.9		45		0.8		0	0	0	0	0	3	17	7	4
	0300		851.7		1447.6	66.3	55.1	44.9	10.4		46		1.5		0	0	0	0	1	2	7	14	7
	1200		849.1		1422.0	87.4	65.4	50.1	12.5		27		2.8		2	0	3	5	1	7	5	6	2
Harnai	0300												0.6		1	0	0	0	0	0	30	0	0
	1200												1.0		0	0	22	0	0	0	9	0	0
Samungli	0000	5213	836.8		1454.3	56.6	47.1	36.5	7.6		49		1.3		0	0	6	11	1	2	2	0	9
	0300		837.6		1460.1	65.3	52.6	40.2	8.9		42		1.5		0	3	1	8	0	4	4	0	11
	1200		835.4		1432.5	82.9	59.0	37.9	8.5		22		2.8		0	0	1	2	2	2	15	8	1

(b) Mean for 29 days (c) Mean for 28 days (*) Data missing.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1959.

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	0300	5490	827.6	—3.9	1439.2	63.8	57.0	48.3	11.6	—0.9	48	—6	1.9	+0.9	3	4	0	2	5	3	0	2	12
	1200		•			80.6	66.8	58.2	17.4		49		3.2		0	0	0	0	4	5	6	6	10
Chaman	0000	4311	864.3		1460.0	68.3	52.8	36.2	7.5		31		0.4		0	4	16	9	2	0	0	0	0
	0300		865.7	—0.7	1468.4	74.1	55.9	40.2	8.0	—1.5	28	—5	0.5	—0.5	0	5	7	8	8	1	1	1	0
	1200		863.8		1459.1	87.7	64.7	47.6	11.6		26		1.0		8	2	0	0	6	6	3	6	0
KALAT (NORTH)																							
Kalat	0000	6616	797.2		1476.5	52.4	44.9	36.5	7.5		55		1.0		2	0	0	1	19	0	0	2	1
	0300		798.6	—0.3	1476.0	67.5	52.9	39.5	8.5	—2.1	37	—7	1.2	+0.4	2	0	0	2	10	3	0	4	10
	1200		797.0		1449.7	76.2	58.0	42.6	10.0		32		1.9		8	1	1	0	2	1	5	12	1
Nushki*	0000	3416																					
	0300																						
	1200																						
Dalbandin	0000	2785	910.9		1441.0	70.7	54.0	36.5	6.7		29		0.0		1	6	1	3	2	2	5	6	5
	0300		912.3	—1.1	1460.6	76.7	56.7	36.7	6.7	—3.7	25	—7	1.7	+0.8	2	9	2	2	0	4	5	1	6
	1200		909.0		1451.7	97.5	65.2	38.4	6.6		13		1.9		1	2	0	0	0	14	7	6	1
KALAT (SOUTH)																							
Panjgur	0000	3177	900.7		1461.7	70.2	62.8	58.0	16.3		65		1.8		13	2	0	0	5	1	2	8	0
	0300		901.6	+0.6	1473.3	72.0	61.5	54.0	14.2	—1.2	54	0	0.3	—0.3	6	12	2	1	0	6	2	2	0
	1200		899.2		1471.7	95.0	68.4	51.0	13.0		23		1.1		1	1	0	0	1	9	8	11	0
AFGHANISTAN																							
Kabul (R)	0300	5955																					
	1200																						
Kandahar	0300	3462	893.0	—	1475.8	66.3	58.1	51.6	13.2	—	60	—	1.9	—	0	1	2	5	2	1	0	0	20
	1200		890.3		1483.0	84.8	67.0	56.0	15.3		40		2.6		1	0	1	1	0	6	6	3	13

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MAY, 1959.

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.	Haze (dust).	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
EAST PAKISTAN																					
CHITTAGONG DIVISION																					
Rangamati	92.3		96	1,5,23	75.0		69	6,9	10.09		3.21	27	12		x		9	0	0	0	0
Cox's Bazar (P. T.)	91.5	+2.7	95	22	78.2	+2.3	71	23,31	7.15	−5.59	2.37	27	9	−1.5	x		8	0	0	0	0
Chittagong (Patenga)	90.2		92	3,22,23	77.4		70	7	7.86		1.29	9	12		x		11	0	0	0	0
Chittagong	89.3	+0.4	92	22	77.0	+1.5	71	6,7	9.69	−0.73	2.04	9	13	+2.2	6.8	+0.4	8	0	0	0	0
Maijdee Court	90.1	+1.0	93	6 days	77.2	−0.4	69	2,2	18.01	+6.56	2.70	29	13	+2.5	x		1	0	0	0	0
Comilla	93.5	+2.4	96	9	76.4	+1.5	70	4 days	11.55	−0.84	2.20	29	14	+2.2	x		5	0	0	0	0
Brahmanbaria	90.9	−1.1	95	20,21	75.9	+3.1	70	5	6.73	−5.06	1.66	25	12	+0.3	5.2		12	0	0	0	0
Srimangal	91.0	−0.1	96	21,22	71.9	−0.3	63	25	16.89	+1.10	2.89	14	20	+4.7	x		24	0	0	0	0
Sylhet P.B.O.	85.6		93	19,21	72.3		68	14,17	31.38		4.08	15	22		x		22	0	0	0	0
DACCA DIVISION																					
Mymensingh	92.5	+3.2	99	3	74.0	−0.2	68	9,14	13.03	+0.57	4.91	31	13	0.0	2.9	+0.6	13	0	0	0	0
Narayanganj	92.0	+0.9	95	5 days	76.7	+0.9	x		10.06	+0.42	1.63	25	14	+3.0	5.5	+1.6	0	0	0	0	0
Dacca (Tejgaon)	91.2		96	3,4,20	76.8		68	7	10.04		2.21	25	11		8.6		22	0	0	0	0
Faridpur (R)	92.3	+0.6	100	19	74.5	−0.4	67	5,25	16.92	+7.30	4.21	26	14	+3.0	3.1	−3.3	13	0	0	0	0
Barisal	91.5	−0.2	95	4 days	78.4	+1.5	73	4 days	11.33	+3.08	2.90	27	10	+0.4	x		5	0	0	0	0
RAJSHAHI DIVISION																					
Khulna	93.7	+0.8	99	20	78.3	+1.3	72	24,25	13.78	+6.03	5.05	27	10	+0.3	5.0	+0.8	1	0	0	0	0
Satkhira	96.8	+1.4	103	20	79.1	+1.7	70	22	12.01	+5.14	2.17	25	4	−4.2	2.5	−0.9	1	0	0	0	0
Jessore	96.4	+2.5	107	19,20	78.5	+2.7	69	10,24	12.38	+4.26	2.98	21	14	+4.9	6.6	+3.5	4	0	0	0	0
Pabna	95.6	+0.8	103	3,4	77.6	+3.2	70	9	10.12	+2.77	1.75	5	14	+4.2	x		13	0	0	0	0
Serajganj	91.9		104	3	74.8		70	7	13.20	+5.12	4.38	27	13	+2.5	4.6		7	0	0	0	0
Rajshahi									6.96	+1.49	1.60	10	7	−0.4			0	0	0	0	0
Bogra (P.B.O.)	91.4	−1.0	105	21	75.7	+1.4	70	5	9.99	+1.59	2.87	1	12	+2.4	3.4	+1.0	8	0	0	0	0
Dinajpur	91.9	+0.1	105	21	75.5	+1.3	71	13	9.38	+2.04	3.22	30	8	−0.7	2.7	−0.3	7	0	0	0	0
Rangpur	87.5		100	21	73.7		67	5,13	14.38	+3.55	2.90	13	13	+1.5	3.7		5	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 MAY, 1959.

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 (Jail Road)	101.7	—2.0	111	25	73.4	+1.2	63	18	0.51	—0.08	0.19	15	3	+1.7	2.7	+0.7	6	0	0	0	2
„ Cantt.	(a) 100.4	—	110	25	73.1	—	63	18,19	0.41	—	0.18	16	2	—	5.1	—	6	0	0	0	2
„ (Walton)	101.9	—	111	25	72.0	—	63	18	0.46	—	0.30	16	2	—	5.1	—	6	0	0	0	1
Sialkot	(a) 100.5	—1.7	111	12,25	74.2	—0.1	64	19	0.88	—0.11	0.34	19	3	+1.0	(x)	—	1	0	0	0	2
RAWALPINDI																					
Jhelum	98.9	—	111	25	73.3	—	62	19	1.04	—	0.58	18	2	—	3.2	—	5	0	0	3	1
Chaklala	93.9	—	104	26	70.2	—	58	19	2.93	—	0.91	5	4	—	6.5	—	9	2	0	0	1
Rawalpindi	94.9	—2.8	105	26	71.1	+2.4	57	19	1.51	+0.26	0.66	18	4	+1.5	3.9	+1.6	4	0	0	0	0
Khushab	101.8	—1.9	114	25	*	—	—	—	0.84	—0.08	0.60	18	2	+0.4	4.9	+0.1	0	0	0	0	0
Sargodha	99.5		113	25	72.5		60	18	1.51		0.91	18	3	—	5.5		6	0	0	1	0
MULTAN																					
Lyallpur	100.6	—1.8	111	25	73.0	—0.9	64	18,19	0.80	+0.37	0.38	16	3	+1.8	3.1	+0.7	3	0	0	0	2
Montgomery	102.5	—2.9	112	25,26	73.2	—3.7	64	17	0.31	—0.05	0.13	16	2	+0.9	1.1	—2.6	1	0	0	0	0
Multan (P.B.O.)	104.1	—	116	26	74.3	—	66	6,17,18	0.99	—	0.72	16	2	—	4.0		6	0	0	0	3
„ (Surface)	104.2	—0.6	116	26	77.3	—0.1	67	17,18	0.85	+0.52	0.70	16	2	+1.3	2.9	+1.1	5	0	0	0	1
BAHAWALPUR																					
Leiah (x)	104.5	—	115	25,27	(n) 73.4	—	62	16	2.45	—	1.00	15	3	—	*	—	3	0	0	0	3
Khanpur (Surface)	107.2	—1.4	116	24,26	76.2	—0.1	63	18	(x)						4.0	—0.9	5	0	0	0	0
„ (P.B.O.)	106.0	—	114	23,24,26	74.3	—	64	7,9	1.45	—	0.81	17	2	—	4.6	—	4	0	0	0	0
Bahawalpur	105.1	—1.1	115	26	75.9	0.0	66	7,17	1.61	+1.43	0.84	16	2	+1.5	2.5	—0.6	1	0	0	0	3
Fort Abbas	107.6	—	118	26	75.4	—	65	17	0.46	—	0.46	17	1	—	5.3	—	0	0	0	0	1
PESHAWAR																					
Chakdara	87.9		101	24.25	64.2		55	18,19	4.38		2.85	18	5		4.1		2	0	0	0	0
Peshawar	93.5	—3.5	109	26	70.7	+0.3	57	19	1.87	+1.10	0.92	18	4	+2.0	2.9	+0.6	10	0	0	0	3
Risalpur	96.0	—	112	24	67.4	—	57	19	3.27	—	1.82	18	4	—	4.0	—	5	0	0	0	2
Haripur	93.7	—	104	26	65.5	—	51	15	2.04	—	0.96	18	3	—	6.7	—	4	0	0	0	0
Campbellpur	*				55.9		42	18,19	1.78		1.21	18	3		3.1		0	0	0	0	0
D. I. KHAN																					
Kohat	94.6	—	109	25	74.1	—	60	19	1.25		0.60	18	3	—	4.6		9	0	0	0	0
Bannu	96.8	—3.0	110	24	73.3	+1.8	60	19	0.98	+0.37	0.51	18	3	+1.5	2.4	—	4	0	0	0	0
D. I. Khan	101.2	—2.3	114	26	74.2	—0.5	63	18	0.77	+0.38	0.33	18	3	+2.0	1.8	0.0	2	0	0	0	0

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MAY, 1959.

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	109.4	+0.2	122	26	78.9	−2.4	67	17	0.23	+0.09	0.14	18	1	+0.5	3.1	−1.0	0	0	0	0	0
KALAT (NORTH)																					
Nokkundi	101.2	−1.2	112	25	72.6	−1.9	62	6	0.00	−0.02	0.00		0	0.0	x		0	0	0	0	1
KALAT (SOUTH)																					
Turbat	110.7		119	23,30,31	81.1		77	5,6	0.00		0.00		0		x		0	0	0	0	0
Jiwani	95.4		104	22	79.3		75	8,19,20	0.00		0.00		0		9.7		0	0	2	0	0
Pasni	96.6	+2.3	112	22	77.4	+3.2	71	2	0.00	−0.01	0.00		0	0.0	11.0	+3.9	0	0	0	0	0
Ormara	95.9	+3.2	108	22	80.4	+0.9	75	1	0.00	0.00	0.00		0	0.0	13.9	+3.3	0	0	0	0	0
Lasbela	110.2	+4.2	119	21,26	77.2	+3.6	71	17	0.22	−0.20	0.13	16	1	+0.1	x		1	0	0	0	0
FEDERAL CAPITAL AREA																					
Karachi (Manora)	91.9	+3.3	103	22	80.1	+1.1	77	2,5	0.00	−0.06	0.00		0	−0.1	x		0	0	0	0	1
Karachi (Mauripur)	95.5		107	22	81.0		75	2	0.00		0.00		0		x		0	2	0	0	0
Karachi (City)	93.7		108	22	80.4		72	6	0.00		0.00		0		7.5		0	0	0	0	0
Karachi (P.A.F.)	102.3		111	22	80.9		74	2	0.00		0.00		0		13.8 (n)		0	0	1	0	0
Karachi (Airport)	98.0		113	22	80.2		75	2	0.00		0.00		0		11.0		0	0	1	1	1
HYDERABAD																					
Badin	106.8	+2.9	118	21	79.2	+0.9	64	1	0.00	−0.22	0.00		0	−0.2	2.9		0	0	0	0	0
Nagarparkar	109.5		113	21	83.1		78	3	0.00		0.00		0		3.1		0	0	0	0	0
Umarkot	109.0		115	22,23	78.8		75	4 days	0.00		Tr	18	0		7.5		0	0	0	0	0
Chhor	108.1		115	21,22	77.6		71	16	0.00		0.00		0		6.7		1	0	0	0	1
Hyderabad	(a) 109.3	+2.3	117	22	80.5	+2.3	75	17	0.00	−0.19	0.00		0	−0.4	6.7	−1.0	1	0	0	0	0
KHAIRPUR																					
Padidan	110.1		120	27	77.0		65	6,9,17	0.03		0.03	17	0		5.8		1	0	0	0	1
Nawabshah	109.4		120	26	76.0		67	17	0.00		0.00		0		5.5		1	0	0	1	2
Sukkur	107.0	−0.4	118	27	78.7	−0.9	69	17	0.02	−0.12	0.02	17	0	−0.2	3.2	−0.2	0	0	0	0	1
Kashmore	*				*				0.18		0.13	16	1		*		0	0	0	0	0
Jacobabad	109.4	−1.7	123	27	80.1	+0.3	68	6	0.17	+0.03	0.16	16	1	+0.6	7.1	+2.8	4	0	0	0	0
JUNAGADH																					
Veraval (x)																					
AFGHANISTAN																					
Jalalabad (x)																					
ARABIA																					
Muscat	92.7	−3.6	103	20	83.9	−1.8	76	5	0.00	0.00	0.00		0	0.0	2.5	−0.7	0	0	0	0	0
HILL STATIONS																					
KASHMIR																					
Srinagar (x)																					
Gulmarg (x)																					
Gurez (x)																					
Sonamarg (x)																					
Dras (x)																					
Kargil (x)																					
Leh (x)																					
Skardu (x)																					

(x) Data not available. *) Data rejected. (a) Mean for 30 days. (n) Mean for 17 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MAY, 1959.

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 Figures 93 or less)	Haze (dust). (Visibility Code Figures 93 or less)	Dust Storm. (Visibility Code Figures 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—(*Continued*)																					
Misgar	57.8	—	70	26	*	—	—	—	1.19	—	0.94	5	1	—	4.4	—	0	0	0	0	0
Aliabad (x)																					
Gilgit (x)																					
RAWALPINDI																					
Murree	70.2	—4.9	80	25,26	54.0	—1.6	43	19	6.81	+4.19	2.37	18	8	+3.2	10.0	+5.5	9	0	3	0	0
PESHAWAR																					
Drosh	77.7	—3.8	95	25	57.9	—1.1	46	19	7.86	+5.95	1.85	18	15	+10.5 ~~+1.05~~	4.5	+1.4	8	1	0	0	0
Cherat	82.2	—3.1	99	26	64.7	—1.7	50	18	3.56	+1.91	2.32	18	5	+2.3	*	—	2	0	0	0	0
Kakul	81.4	—	93	25	62.5	—	51	18,19	4.32	—	1.95	18	8	—	x	—	9	0	2	0	1
Balakot	82.5	—	98	25	6.27	—	51	19	4.52	—	1.48	19	5	—	6.1	—	9	0	0	0	0
Landikotal	84.9	—	99	25	*	—	*	—	4.64	—	1.85	18	4	—	2.0	—	2	0	0	0	0
D. I. KHAN																					
Parachinar	78.7	—0.8	90	26	55.4	—0.2	42	18	5.71	+3.40	1.86	16	6	—0.7	2.5	—0.1	8	0	0	0	0
Miranshah	90.3	—2.6	105	26	68.9	—0.5	55	19	0.66	—0.48	0.41	19	2	—0.4	2.5 (a)	—2.2	7	0	0	0	0
Wana	87.1	—1.8	100	25	58.7	—1.3	47	16	3.08	+2.26	1.97	17	4	+1.7	3.8	—	6	0	0	0	0
QUETTA																					
Fortsandeman	90.5	0.0	101	26	65.1	+1.2	54	18	0.67	—0.24	0.43	16	2	—0.1	2.8	0.0	0	0	0	0	0
Hindubagh	*				*				0.00		0.00		0		7.3		0	0	0	0	0
Loralai	88.1		99	26	57.0		48	19	0.91	+0.31	0.61	16	2	+0.7	4.6		2	0	0	0	0
Harnai									0.55	+0.05	0.30	14	3	+2.1	x		0	0	0	0	0
Samungli	85.1		97	29	53.0		42	9	0.47		0.31	14	2		x		6	0	0	0	0
Quetta	82.9		95	25,26	53.4		43	9	0.53		0.27	13	2		3.1	+0.7	0	0	0	0	0
Chaman	90.1	—0.3	101	22,25	63.2	—1.9	49	5	0.00	—0.13	0.00		0	—0.4	x		0	0	0	0	0
KALAT (NORTH)																					
Kalat	79.5	—3.5	92	25 26	51.2	—0.8	41	6	0.90	+0.70	0.72	17	1	+0.3	x		1	1	0	0	0
Nushki	*				*				0.00		Tr	17	0		x		0	0	0	0	1
Dalbandin	99.4	—0.9	109	25	66.6	+0.6	54	6	0.04	—0.03	0.04	14	0	—0.2	5.0	+0.6	4	2	0	0	0
KALAT (SOUTH)																					
Panjgur	96.1	—1.8	104	27	68.2	0.0	61	17	0.14	+0.03	0.14	16	1	+0.7	*		0	0	0	0	1
AFGHANISTAN																					
Kabul (R)																					
Kandahar	89.5	—	99	25,31	57.8	—	47	6	0.05	—	0.05	18	0	—	1.0	—	1	0	0	0	3

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

REGD. No. S - 1452

PAKISTAN WEATHER REVIEW, 1959

MONTHLY WEATHER REPORT

June

(PUBLISHED BY THE AUTHORITY OF GOVERNMENT OF PAKISTAN)

Chief Features:

1. Locally heavy to very heavy rainfall in East Pakistan towards the middle of the month due to strong monsoon resulting in floods in a number of districts.

2. Formation of a cyclonic storm in west central and adjoining north Bay of Bengal at the end of the month and its westnorthwest movement across Orissa coast.

3. Unusually hot and dry weather in the central parts of West Pakistan during the second week.

West Pakistan

In association with the passage of two active western disturbances across Russian Turkistan and their associated troughs across northern parts of West Pakistan, fairly widespread rain with a few heavy falls occurred in Peshawar and Rawalpindi divisions, local dust and thunderstorms in D. I. Khan and Multan divisions and scattered in Bahawalpur, Lahore and Quetta divisions between the 2nd and the 3rd. Rawalpindi town was hit by a sixty miles per hour squall which preceded the rains. Although five westerly low pressure waves and tow western disturbances which moved across Russian Turkistan, affected the northern parts of the region between the 4th and the 24th they caused little or no rainfall activity over the region outside Peshawar and Rawalpindi divisions, as a consequence of which the central parts of the region experienced swelting heat and some deaths were reported from Multan division. However dust or thunderstorm activity occurred frequently in Peshawar and Rawalpindi divisions and occasionally in D. I. Khan, Quetta, Lahore, Multan and Bahawalpur divisions under the influence of these disturbances and was local to fairly widespread in the first two divisions between the 13th and the 14th and generally scattered on other days.

Towards the end of the month the weather over West Pakistan was influenced by three westerly low pressure waves moving across the north of the region and two depressions, one of which formed off Konkan coast on the 25th, moved northwestwards and finally weakened into a low over north Arabian Sea while the other after crossing Orissa coast as a cyclonic storm weakened into a depression moved westnorthwestwards across central India and lay with its centre near Seoni on the 30th evening. They caused scattered thunderstorms or showers in the northern half of the region and in Hyderabad and south Kalat divisions and the Federal Capital Area between the 25th and the 30th. The rains in the last mentioned area were preceded by a violent duststorm of approximately 42 miles per hour velocity which uprooted trees, dislocated communications and caused considerable damage to refugee colonies as reported by newspapers.

Principal rainfall amounts during the month were Murree 2″ and on the 4th and Kakul on the 30th.

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

The mean maximum temperature was above normal in Lanore, Multan, Bahawalpur, Peshwear and Quetta Divisions and normal elsewhere.

The mean minimum temperature was normal everywhere except in Lahore and Peshawar divisions where it was above normal.

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

The mean cloud amount was in defect over the region outside Federal Capital Area where it was in excess.

East Pakistan

Monsoon was active and caused fairly widespread rainfall practically throughout the region between the 1st and the 3rd. Thereafter, monsoon activity declined and continued so till the 10th causing mainly scattered to local rainfall over the region except during the last two days when fairly widespread rain fell in Chittagong division and scattered to local elsewhere.

A fresh surge of monsoon advanced into the region on the 11th and caused pronounced spell of wet weather over there for nearly ten days when locally heavy to very heavy rainfall occurred in Chittagong division. As a result of incessant heavy downpours, rivers Brahmaputra, Jumna, Tessa and Surma, overflew their banks and submerged several villages. Dislocation of traffic and damage to crops was reported by newspapers from several places, the worst affected region being the district of Sylhet. The pronounced wet spell was terminated under the influence of allow forming in the South Bay of Bengal which partly cut off supply of moist air into East Pakistan and caused only scattered to local rainfall over there between the 20th and the 23rd.

Thereafter a trough of low appeared in west central and adjoining north Bay of Bengal on the 25th and concentrated into a depression by the 28th morning when it was centred within one degree of latitude 19°N and longitude 89°E. It moved westnorthwestwards, concentrated further into a cyclonic storm by the 29th and crossed coast near Chandpali (in India) on the following night whereafter it weakened into depression. Under its influence scattered to local rain fell over the region between the 25th and the 28th and fairly widespread during the last two days of the month.

Some of the outstanding amounts of rainfall were:—Bogra 4″ on the 2nd, Chittagong 6″ on the 7th, Mymensingh, Sylhet and Barisal 4″ each on the 13th, Sylhet 13″ on the 14th and 6″ on the 15th Cox's Bazar 9″ and Srimangal 4″ on the 16th, Cox's Bazar 4″ on the 17th, Sylhet 15″ on the 18th, Rangpur 6″ on the 23rd and Sylhet and Rangpur 4″ each on the 25th.

The total rainfall during the month was normal over the whole region outside Rajshahi division, where it was in slight defect.

The mean maximum and the mean minimum temperatures, and the mean relative humidity were normal everywhere, while the mean cloud amount was in excess over Chittagong division and normal elsewhere.

Table I contains the divisional means of rainfall, temperature, relative humidity and cloud amount for the 15 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 JUNE, 1959.

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	19.35	20.73	—1.38	—7	—0.2	+1.6	+1.1	+1	+1.1
Dacca	14.79	14.79	+0.08	+1	+0.3	+0.8	+0.5	—1	+0.8
Rajshahi	11.40	12.91	—1.51	—12	—0.9	+1.2	+0.3	+1	+0.4
Mean	14.86	15.87	—1.01	—6	—0.3	+1.2	+0.6	0	+0.7
WEST PAKISTAN									
Kashmir (x)									
Lahore	0.11	2.01	—1.90	—95	+2.8	+3.3	0.0	—7	—0.5
Rawalpindi	2.33	2.57	—0.24	—9	+1.2	+1.2	+0.7	—1	—0.4
Multan	0.00	0.92	—0.92	—100	+2.9	+1.1	—1.5	—5	—0.5
Bahawalpur	0.00	0.27	—0.27	—100	+2.4	+1.3	—0.7	—3	—0.9
Peshawar	0.44	0.70	—0.26	—37	+3.0	+2.0	—0.6	—7	—0.7
D. I. Khan	0.96	0.97	—0.01	—1	+1.7	+0.1	+0.9	0	—1.0
Quetta	0.00	0.41	—0.41	—100	+2.0	—0.6	+0.2	—6	—0.4
Kalat	0.02	0.15	—0.13	—87	+0.7	+0.1	—1.9	—5	—0.6
Federal Capital Area	0.00	0.72	—0.72	—100	+0.3	—1.0	—2.2	—2	+0.9
Hyderabad	0.00	0.52	—0.52	—100	+1.3	+0.1	+2.7	+8	—0.9
Khairpur	0.00	0.20	—0.20	—100	+0.3	+0.1	+3.5	—1	—0.5
Mean	0.20	0.53	—0.33	—62	+1.4	+0.5	+1.0	—3	—0.7
Junagadh (x)									

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE, 1959.

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
EAST PAKISTAN	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Chittagong Division																							
Rangamati	0000	208	996.9		1004.1	77.4	76.3	75.9	30.5		95		5.4		1	0	1	2	16	0	1	0	9
	0300		998.0		1005.1	81.9	78.0	76.3	31.0		83		6.1		3	0	3	2	18	1	0	0 (b)	2
	1200		995.5		1002.6	83.0	78.6	76.4	31.4		81		6.4		3	0	3	1	19	1	1	0	2
Cox's Bazar (P.T.)	0300	38	1003.9	+2.0	1005.2	82.7	79.6	78.0	33.1	+1.0	87	+2	6.0	—0.1	1	1	5	11	9	2	0	0	1
	1200		1001.2		1002.5	83.0	79.9	78.0	33.4		87		6.0		0	1	3	7	12	4	2	0	1
Chittagong (Patenga)	0000	20	1002.3		1003.0	78.9	77.9	77.1	32.2		95		6.4		0	4	2	18	4	1	0	0	1
	0300		1003.6		1004.3	83.4	79.5	78.0	32.7		83		6.5		0	3	2	17	7	1	0	0	0
	1200		1001.0		1001.7	84.1	80.3	78.7	33.6		84		6.6		0	1	0	8	14	5	1	0	1
Chittagong	0300	46	1002.7	+1.1	1004.3	82.3	78.6	77.2	31.7	+0.2	84	+1	6.4	+0.4	1	1	1	8	13	3	0	0	3
	1200		1000.1		1001.7	83.2	79.6	78.5	32.8		85		6.4		1	0	0	4	12	10	2	0	1
Maijdee Court	0000	25	1001.9		1002.7	80.6	79.3	78.9	33.6		94		6.0		1	3	1	7	10	1	0	0	7
	0300		1003.0	+1.4	1003.3	82.7	79.9	78.5	33.6	+0.5	88	+3	7.2	+2.0	2	0	1	4	14	1	0	0	8
	1200		1000.0		1000.8	84.3	80.8	79.4	34.3		85		5.6		0	1	1	3	19	2	0	0	4
Comilla	0000	29	1001.2		1002.2	79.1	78.0	76.8	32.2		95		5.5		0	0	0	0	4	0	0	0	26
	0300		1002.5	+0.9	1003.5	84.0	80.2	76.8	33.5	+1.1	84	+2	7.1	+1.7	0	0	0	0	3	0	0	0	27
	1200		1000.3		1001.3	84.0	80.2	78.7	33.5		84		5.9		0	0	0	0	3	0	0	0	27
Brahmanbaria	0000	32	1000.9		1002.0	80.3	78.8	78.3	32.9		93		6.9		0	0	0	4	12	0	0	0	14
	0300		1002.4		1003.5	84.1	80.1	78.2	33.3	+2.7	83	+4	6.4		0	3	1	6	11	4	0	0	5
	1200		999.8		1000.9	83.2	79.5	78.1	32.7		84		6.1		1	0	2	2	12	1	0	0	12
Srimangal	0000	69	1000.5		1002.9	78.3	76.8	76.3	30.8		93		6.1		0	0	0	1	0	0	0	0	29
	0300		1001.5	+1.2	1003.9	83.5	79.2	77.3	32.1	+0.8	82	—4	6.6	+1.3	0	0	0	0	6	0	0	0	24
	1200		998.7		1001.1	83.2	79.1	77.4	32.1		83		6.4		0	0	0	1	1	1	1	0	26
Sylhet (P.B.O.)	0000	115	998.4		1002.3	77.2	76.5	76.0	31.1		97		7.0		0	5	8	1	3	0	0	0	13
	0300		999.7		1003.6	80.5	77.8	76.6	31.3		88		7.0		0	5	14	4	1	0	0	0	6
	1200		996.7		1000.6	81.4	78.1	76.8	31.3		86		6.2		1	3	5	1	1	2	1	2	14
Dacca Division																							
Mymensingh	0000	62	999.9		1002.0	79.8	78.6	78.2	33.9		96		6.5		0	0	2	10	0	1	1	0	16
	0300		1001.4	+1.1	1003.5	82.2	79.6	78.7	33.3	+1.5	89	+3	7.0	+0.3	0	0	2	14	1	2	2	0	9
	1200		998.4		1000.5	84.1	79.9	78.3	33.0		83		6.1		0	0	2	9	1	0	3	0	15
Narayanganj	0000	26	1000.5		1001.3	80.9	79.2	78.8	33.3		92		7.3		0	0	7	4	12	4	0	0	3
	0300		1001.9	+0.8	1002.8	85.3	80.7	78.8	33.7	+0.6	81	—4	7.6	+1.1	1	1	5	6	9	6	0	1	1
	1200		999.2		1000.0	85.1	80.4	78.5	33.3		80		7.0		0	1	4	6	14	0	0	0	5
Dacca (Tejgaon)	0000	27	1000.1		1001.0	80.5	79.4	79.0	33.7		95		7.2		0	1	1	6	10	6	0	1	5
	0300		1001.6		1002.5	83.8	80.6	79.2	34.3		86		7.2		0	0	4	5	4	12	1	1	9
	1200		998.6		999.5	84.0	80.3	78.8	33.7		84		6.7		0	0	4	11	3	8	1	0	3

(b) Observation for 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE, 1959.

Division and Station	Hours of observation	Height of barometer 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 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
Dacca Division (contd)	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Faridpur	0000	46	999.8		1001.3	80.4	78.9	78.9	33.0		93		7.0		0	1	0	8	17	1	0	0	3
	0300		1000.8	+0.8	1002.4	83.9	80.6	78.7	34.2	+0.3	85	+1	6.9	+1.2	2	0	0	5	20	1	1	1	0
	1200		998.8		1000.4	86.0	81.1	79.0	33.9		80		5.8		1	1	0	11	15	2	0	0	0
Barisal	0000	11	1002.0		1002.4	80.4	78.5	77.3	32.4		91		4.1		0	0	0	2	6	0	0	0	22
	0300		1002.9	+1.6	1003.3	85.3	80.5	78.8	33.4	-0.3	80	—5	6.5	+0.5	1	0	1	6	15	0	1	0	6
	1200		999.7		1000.1	85.5	81.0	79.1	34.1		81		5.5		1	0	1	6	8	0	0	0	14
Rajshahi Division																							
Khulna	0000	16	1000.8		1001.3	80.6	79.4	79.1	33.8		95		4.9		0	0	1	1	9	0	0	0	19
	0300		1002.3	+1.7	1002.8	85.0	80.9	79.4	34.1	+0.6	83	+3	6.0	—0.6	0	0	0	4	11	1	0	0	14
	1200		999.5		1000.0	86.3	80.8	78.8	33.6		79		4.5		0	1	1	4	11	0	0	0	13
Satkhira	0000	16	1000.6		1001.2	80.5	79.3	78.7	32.6		95		4.0		0	1	0	0	0	1	0	0	28
	0300		1001.8	+1.5	1002.4	85.9	81.1	79.0	34.0	—2.5	81	—1	6.1	+0.8	0	1	1	1	2	7	0	0	18
	1200		999.1		999.7	86.6	80.6	78.1	33.0		76		5.8		1	2	0	0	2	6	0	0	19
Jessore	0000	26	1000.0		1000.9	80.3	79.2	78.8	33.5		95		6.4		0	1	4	2	19	1	0	0	3
	0300		1001.4	+1.1	1002.3	84.5	81.1	79.8	34.8	+1.0	85	+2	7.0	+1.2	0	2	3	3	13	6	3	0	0
	1200		998.6		999.5	86.6	81.4	78.9	34.3		79		4.6		0	0	4	1	25	0	0	0	0
Pabna	0000	48	998.2		999.8	80.4	79.2	78.9	33.5		95		(a) 6.8		0	5	1	18	3	3	0	0	0
	0300		999.4		1001.0	84.3	81.0	79.3	34.7	+1.4	86	+2	6.4		0	2	2	15	5	4	0	2	0
	1200		996.4		998.0	85.5	80.9	79.2	33.9		81		(a) 5.9		1	0	3	18	4	2	0	2	0
Serajganj	0000	51	999.2		1000.9	79.7	79.0	78.6	33.6		97		6.5		0	0	5	1	7	1	0	0	16
	0300		999.9		1001.6	83.8	80.7	79.5	34.4		87		6.9		0	0	3	4	13	3	0	0	7
	1200		996.7		998.5	83.5	81.4	80.5	35.6		91		6.1		0	0	1	1	10	1	0	0	17
Rajshahi	0000											7.3											
	0300																						
	1200																						
Bogra (P.B.O.)	0000	65	998.6		1000.8	80.0	78.6	78.1	32.8		94		6.8		0	0	12	5	2	4	2	0	5
	0300		999.9	+0.6	1002.1	83.6	80.3	78.9	33.8	+1.5	86	+1	6.9	+1.0	1	1	12	6	6	3	1	0	0
	1200		996.7		998.9	84.4	80.7	79.3	34.1		84		6.2		0	1	11	4	6	1	1	0	6
Dinajpur	0000	123	996.1		1000.3	78.8	76.9	75.8	30.7		91		6.4		0	5	12	0	0	0	0	0	13
	0300		997.6	+0.5	1001.7	82.8	78.6	76.8	31.5	+0.1	82	—4	5.8	—0.2	0	0	4	0	0	0	1	0	25
	1200		993.8		997.9	85.4	80.0	77.6	32.6		77		5.1		0	1	6	0	0	0	0	0	23
Rangpur	0000					78.3	77.0	76.5	31.1		94		6.5		2	7	12	4	0	0	1	0	4
	0300					81.3	78.9	77.9	32.5		89		6.3		0	5	10	9	3	1	1	0	1
	1200					83.9	80.2	78.5	33.6		85		5.4		1	4	0	13	8	0	1	0	3

(b) Mean for 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE, 1959.

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 (Jail Road)	0000	702	973.1		996.8	83.4	72.0	65.3	21.6		55		1.4		0	1	0	5	1	1	0	0	22
	0300		974.7	+0.2	998.1	91.3	75.0	66.3	22.3	+0.4	44	—3	1.2	—0.4	0	1	2	8	2	3	4	1	9
	1200		971.7		994.3	106.1	76.7	59.5	18.0		23		0.4		2	0	1	3	3	6	3	3	9
,, (Cantt.)	0000	703	972.5		996.3	84.4	72.5	65.7	21.9		53		1.4		1	2	1	8	4	7	5	2	0
	0300		974.2		997.8	91.6	75.9	67.6	23.4		46		1.2		1	2	3	8	5	4	3	3	1
	1200		971.2		994.0	106.1	77.9	62.1	19.8		26		0.6		3	4	1	2	4	4	8	4	0
,, (Walton)	0000	699	972.8		996.3	83.0	72.9	67.2	23.1		60		1.1		0	2	1	7	4	4	2	1	9
	0300		974.5		997.7	92.0	76.3	68.1	23.8		46		1.2		0	2	2	12	2	3	5	3	1
	1200		971.2		993.7	106.6	78.8	64.3	21.0		26		0.5		2	0	0	4	3	3	7	8	3
Sialkot	0000	830	(d) 968.5		996.3	85.7	71.7	62.9	20.9		48		0.3		0	5	0	5	0	1	0	1	18
	0300		970.0	—0.5	997.4	93.3	74.4	63.0	21.2	—0.4	38	—10	0.7	—0.7	0	8	0	8	1	0	0	1	12
	1200		967.1		993.6	106.3	77.5	60.8	20.3		24		1.2		0	2	0	2	0	2	0	7	17
RAWALPINDI																							
Jhelum	0000	765	970.5		996.4	81.4	71.1	65.3	21.4		58		0.9		2	0	1	1	0	0	1	4	21
	0300		972.1		997.5	91.9	74.5	65.1	21.2		41		0.4		0	0	3	8	1	1	1	4	12
	1200		968.6		993.3	105.3	77.4	62.1	19.4		25		0.9		3	0	1	6	9	7	0	2	2
Chaklala	0000	1667	942.2		997.7	79.2	67.4	60.2	17.6		53		0.8		7	3	7	2	0	0	0	2	9
	0300		943.3		997.8	89.4	71.5	61.8	18.3		39		1.2		0	10	7	3	1	0	0	1	8
	1200		940.9		993.9	103.7	73.9	57.0	15.0		22		1.5		1	0	2	5	1	1	11	5	4
Rawalpindi	0000	1676	941.6		997.3	79.3	68.0	61.6	18.7		54		1.5		2	7	3	0	0	1	1	1	15
	0300		942.9	—0.2	997.5	90.6	72.6	63.7	20.0	+1.8	41	+4	1.7	—0.2	3	2	2	1	1	0	5	0	16
	1200		939.9		993.1	103.3	75.6	60.7	18.9		26		1.8		2	0	2	3	5	4	6	2	6
Khushab	0000	616	(n) 975.8		(n) 996.5	84.1	72.8	66.5	22.2		55		0.5		1	1	5	2	0	0	0	0	21
	0300		977.3	0.0	997.8	91.8	75.2	66.1	21.4	+0.6	44	+1	0.3	—1.0	1	3	14	1	0	0	0	0	11
	1200		974.9		994.1	107.4	79.3	65.9	21.2		26		0.5		0	1	15	6	0	0	0	1	7
Sargodha (x)	0000	614																					
	0300																						
	1200																						
MULTAN																							
Lyallpur	0000	605	975.4		995.8	84.8	71.6	63.6	20.4		50		0.8		0	3	0	4	2	1	0	0	20
	0300		977.0	+0.2	997.2	89.1	73.8	65.1	21.6	+0.2	45	—1	1.0	—0.8	0	0	0	9	7	2	1	2	9
	1200		974.4		993.9	106.7	77.2	60.1	18.5		23		0.8		1	1	1	4	5	3	2	3	10
Montgomery	0000	558	977.7		996.4	84.3	71.8	64.5	20.9		52		0.5		0	0	0	1	0	1	0	0	28
	0300		979.2	+0.4	997.7	90.3	76.4	68.6	24.7	—2.1	50	—7	0.7	—0.3	0	0	1	0	0	3	1	0	25
	1200		976.4		994.4	105.5	79.1	63.1	21.9		28		0.6		0	0	1	0	0	3	0	0	26
Multan (P.B.O.)	0000	404	981.7		995.3	87.1	73.2	65.3	21.6		49		0.6		3	1	2	1	9	7	1	0	6
	0300		983.4		996.9	92.4	76.5	68.4	23.9		45		0.4		1	2	3	1	2	15	1	2	2
	1200		980.5		993.4	109.2	77.2	58.2	17.3		20		0.6		0	2	0	2	6	16	2	0	2
Multan (Surface)	0300	413	983.1	—0.1	996.9	91.5	76.5	68.9	24.3	—2.6	48	—8	0.3	—0.5	1	0	4	4	3	12	0	0	6
	1200		980.3		993.6	109.5	78.6	62.0	19.3		22		0.4		1	0	4	0	8	10	3	1	3

(x) Data not available. (d) Mean for 27 days. (n) Mean for 17 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE, 1959.

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	6	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										
BAHAWALPUR																							
Leish	0000	490	*		*	82.0	*	—	—		—		0.6		4	0	3	0	7	0	1	1	14
	0300		*	—	*	89.7	*	—	—		—		1.7		1	0	2	0	4	1	1	1	20
	1200		*		*	108.3	*	—	—		—		2.8		6	0	0	0	12	1	1	1	9
Khanpur (Surface)	0300	297	988.0	+0.1	998.0	89.9	78.5	73.1	28.1	+1.7	58	+1	0.0	—1.0	1	1	0	0	1	17	8	2	0
	1200		989.2		993.8	111.3	79.5	62.0	19.9		21		0.1		2	1	0	0	1	13	10	3	0
,, (P.B.O.)	0000	290	986.8		996.7	85.5	75.1	69.9	25.0		59		0.0		0	1	0	0	1	22	2	0	4
	0300		988.3		998.1	89.1	77.4	71.8	26.8	—	57	—	0.0	—	0	2	0	0	1	26	1	0	0
	1200		984.2		993.6	108.7	77.0	58.6	17.3		21		0.1		2	1	0	0	1	14	8	0	4
Bahawalpur	0300	384	984.9	+0.3	997.6	91.5	76.8	69.6	24.8	—3.2	50	—6	0.2	—0.8	0	0	2	0	8	13	1	0	6
	1200		981.4		993.8	109.7	80.6	67.3	21.8		26		0.5		0	0	0	1	4	18	0	0	7
Port Abbas	0000	475	(b) 981.1		(b) 997.1	88.5	74.8	68.8	23.3		54		0.1		1	3	1	3	1	21	0	0	0
	0300		(b) 982.2	—	(b) 997.9	94.7	77.3	68.8	24.1	—	43	—	0.3	—	0	0	0	5	0	24	0	0	1
	1200		(c) 978.8		(c) 993.9	108.5	78.7	62.1	20.6		23		0.4		1	3	0	1	0	22	0	1	2
PESHAWAR																							
Chakdara	0000	2197	923.5		996.5	75.5	(i) 62.0	(i) 52.1	13.5		45		1.6		0	0	0	0	0	0	2	0	28
	0300		925.3	—	997.6	81.8	(i) 66.1	(i) 56.2	15.6	—	42	—	1.1	—	1	2	1	2	0	0	2	0	22
	1200		922.0		992.0	98.1	(j) 72.1	(j) 57.7	16.3		26		1.2		2	1	0	0	0	9	9	1	8
Peshawar	0000	1177	957.7		997.0	81.2	66.2	54.5	15.2		41		0.7		0	0	0	3	4	1	2	4	16
	0300		959.1	—0.3	997.9	90.3	71.6	59.6	18.0	+1.1	37	+1	0.5	—1.2	3	4	1	5	0	0	1	4	12
	1200		956.1		994.0	102.5	72.4	50.4	13.6		20		2.5		3	9	5	3	2	2	1	4	1
Risalpur	0000	1009	963.1		997.0	80.7	68.1	59.8	17.7		50		1.4		0	2	2	1	1	0	5	1	18
	0300		964.7	—	998.0	91.4	71.3	58.8	17.1	—	34	—	1.4	—	0	1	1	1	0	2	13	1	11
	1200		963.1		993.9	106.0	73.1	49.2	12.8		16		2.3		1	3	1	4	0	2	9	6	4
Haripur	0300	1757	*		*	90.8	73.5	64.7	21.1	—	43	—	1.0		1	5	3	6	0	15	0	0	0
	1200		*		*	97.5	*	—	—		—		1.3		0	0	2	3	0	25	0	0	0
Campbellpur (R)	0300	1175		—																			
	1200																						
D. I. KHAN																							
Kohat	0000	1667	942.6		997.6	84.3	67.9	57.6	16.6		41		0.6		0	1	0	0	0	0	1	22	6
	0300		943.9	—	998.2	91.3	71.6	61.0	18.5	—	36	—	0.6	—	1	2	0	0	0	0	1	16	10
	1200		941.6		994.8	101.8	74.2	58.6	17.6		26		2.7		2	7	1	5	2	1	4	4	4
Bannu	0000	1263	953.4		995.8	82.7	69.5	60.3	18.7		49		0.4		0	1	0	0	0	0	4	6	19
	0300		954.7	—	996.4	87.7	72.8	62.3	20.8	+1.7	46	+4	0.0	—1.4	0	0	0	0	0	0	1	4	25
	1200		952.3		992.9	102.2	75.4	58.2	17.9		25		1.8		0	2	3	10	2	0	1	1	11
D. I. Khan	0000	570	975.9		995.2	82.6	*	*	*		*		0.0		0	0	0	0	0	0	0	0	30
	0300		977.6	—0.5	996.6	91.0	*	*	*		*		0.5	—0.6	0	13	1	2	0	0	0	1	13
	1200		974.1		992.4	107.2	*	*	*		*		1.2		1	6	0	3	0	0	1	0	19

(*) Data rejected. (b) Mean for 29 days. (c) Mean for 28 days. (i) Mean for 22 days. (j) Mean for 21 days. (f) Mean for 19 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE, 1959.

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.	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	G.M.T.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	Oktas										
Sibi	0000	441	980.9			*	*	*	*				0.0		0	4	0	0	0	2	1	0	23
	0300		983.2	+1.0	997.5	95.3	72.7	56.0	17.2	—3.8	34	—6	0.1	—0.4	0	1	1	1	2	3	2	4	16
	1200		978.9		992.8	114.8	75.9	46.7	12.7		16		0.3		1	0	0	6	10	6	7	0	0
KALAT (NORTH)																							
Nokkundi	0000	2229	924.8		997.5	85.2	60.0	36.0	6.4		18		0.0		13	3	1	0	0	1	2	10	0
	0300		926.9		998.9	91.4	64.9	42.2	8.3	—10.9	20	—20	0.0	—0.6	9	4	4	3	2	1	0	7	0
	1200		924.2		993.7	106.8	67.6	36.6	5.4		9		0.0		8	4	0	1	2	1	2	12	0
KALAT (SOUTH)																							
Turbat (R)	0000	510																					
	0300													...									
	1200																						
Jiwani	0000	185	993.1		999.5	82.0	79.6	78.5	33.5		89		1.8		0	0	4	3	3	8	5	0	7
	0300		294.4		1000.7	84.5	80.7	79.1	34.0		84		2.8		1	0	5	3	4	6	5	0	6
	1200		292.1		998.3	90.5	81.9	77.5	33.2		68		0.8		0	0	1	3	12	14	0	0	0
Pasni	0000	28	998.3		999.2	81.3	79.9	79.3	34.1		93		2.6		0	3	3	1	0	1	12	4	6
	0300		999.6	+0.4	1000.5	84.4	81.5	80.2	35.2	+2.2	87	+4	2.8	—0.2	0	5	4	1	0	2	12	4	2
	1200		996.7		997.6	90.2	83.7	81.4	36.2		75		0.7		0	0	0	3	4	23	0	0	0
Ormara	0000	15	998.6		999.1	82.2	79.9	78.9	33.8		89		5.4		0	0	2	1	0	4	17	0	6
	0300		999.9		1000.4	86.3	80.3	77.7	32.6	—0.5	76	—8	4.0	+0.3	1	1	4	1	0	4	15	0	4
	1200		997.1		997.6	90.6	80.0	75.6	30.1		61		1.5		0	0	2	0	4	10	13	1	0
Lasbela	0000	292	*			83.3	79.6	78.0	32.4		84		0.4						*				
	0300		989.7	—0.8	999.6	86.3	81.6	79.7	34.3	+3.6	81	+6	0.6	—2.5					*				
	1200		986.3		996.2	104.4	86.3	78.9	34.2		46		0.1						*				
FEDERAL CAPITAL AREA																							
Karachi (Manora)	0000	13	998.8		999.2	82.3	78.3	76.4	30.9		83		5.3		0	0	2	0	0	7	17	0	4
	0300		1000.0	+0.3	1000.5	83.5	79.0	76.8	31.3	—2.2	81	—2	5.4	+0.9	0	0	3	0	1	7	18	1	0
	1200		997.8		998.2	88.4	83.3	81.3	36.3		80		4.6		0	0	0	1	1	13	15	0	0
Karachi (Mauripur)	0000	52	997.4		999.2	82.9	79.2	77.6	32.4		84		3.2		0	1	2	1	0	8	18	0	0
	0300		998.6		1000.4	85.2	80.4	78.3	33.2		80		5.2		0	1	2	1	0	8	15	3	0
	1200		996.2		997.9	89.2	81.9	79.0	33.9		72		2.4		0	0	0	1	3	22	4	0	0
Karachi (City)	0300	20	999.3		1000.0	85.9	81.5	79.9	35.1		82		4.4		1	0	0	0	9	17	3	0	0
	1200		997.4		998.1	86.9	81.9	79.8	35.1		80		3.9		1	0	0	0	8	20	1	0	0
Karachi (P.A.F.)	0000	38	998.3		999.6	83.1	80.9	78.7	35.0		90		3.9		0	0	2	1	0	18	7	0	2
	0300		999.2		1000.5	85.2	80.9	79.1	33.9		81		4.8		0	1	2	1	0	22	3	1	0
	1200		997.1		998.5	90.0	82.3	79.7	35.1		71		2.9		0	0	1	1	2	26	0	0	0
Karachi (Airport)	0000	73	996.8		999.3	83.0	79.0	77.2	32.0		83		4.5		1	1	1	0	0	9	14	0	4
	0300		998.2		1000.7	85.5	79.7	77.1	32.0		77		5.1		0	0	2	1	0	9	16	1	1
	1200		995.6		998.1	90.3	81.3	77.7	32.4		67		3.2		0	0	0	1	2	24	3	0	0
HYDERABAD																							
Badin	0000	31	1000.1		1001.2	83.0	80.4	79.2	34.2		89		*						*				
	0300		1000.8	+2.0	1001.9	85.2	82.0	80.7	35.4	+4.4	87	+13	*						*				
	1200		998.1		999.1	98.1	81.4	74.4	28.3		45		*						*				
Nagarparkar	0000	178 (Prov.)	*			86.8		70.2	25.5		58		0.2		0	0	0	0	0	2	14	0	14
	0300		996.0		1001.9	*	77.5						0.7		0	0	0	0	0	4	20	0	6
	1200		991.4		997.2	104.3	76.1	57.1	17.9		24		0.7		0	0	0	0	0	1	15	0	14

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE, 1959.

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	996.6		998.5	82.3	78.3	75.9	31.2		83		1.2		0	0	0	1	9	18	0	0	2
	0300		998.7		1000.5	85.0	78.9	76.4	30.9		75		3.6		0	0	0	1	11	16	0	0	2
	1200		993.8		995.7	104.3	81.7	71.6	26.6		37		1.2		0	0	0	1	5	23	0	1	0
Chhor	0000	19	998.1		998.8	81.7	77.3	75.2	30.0		81		2.3		0	0	0	1	2	26	0	0	1
	0300		999.3		1000.0	85.9	78.9	75.9	30.6		72		3.2		0	0	0	1	4	24	0	0	1
	1200		995.4		996.0	120.5	80.4	70.0	25.3		36		1.1		0	0	0	0	2	28	0	0	0
Hyderabad	0000	98	994.6		997.9	82.6	77.1	74.6	29.3		77		1.1		0	0	0	1	4	20	0	0	5
	0300		995.9	+0.5	999.3	86.1	78.1	74.5	29.2	+1.1	68	+3	1.1	—0.9	0	0	0	1	3	23	0	0	3
	1200		993.0		996.3	100.3	79.7	69.9	25.2		38		0.8		0	0	0	4	7	19	0	0	0
KHAIRPUR																							
Padidan	0000	153	991.4		996.6	82.6	75.3	71.7	26.6		70		0.0		0	0	0	16	13	1	0	0	0
	0300		993.0		998.1	87.9	77.2	71.6	27.0		60		0.1		0	0	0	17	10	1	0	0	2
	1200		989.6		994.5	110.6	74.8	49.1	13.2		15		0.4		1	2	0	11	7	5	2	1	1
Nawabshah	0000	124	992.9		997.2	82.7	76.2	73.1	27.9		73		0.3		0	0	0	2	19	7	0	0	2
	0300		994.5		998.8	88.5	78.1	73.3	28.1		61		0.6		0	0	0	3	22	5	0	0	0
	1200		991.4		995.5	107.2	79.6	64.6	21.9		27		0.8		0	0	0	5	15	6	0	0	4
Sukkur	0300	221	990.5	+0.4	997.9	86.8	79.4	76.2	31.7	+3.2	71	+4	0.1	—0.4	0	1	0	1	2	9	1	0	16
	1200		986.6		994.1	108.2	83.0	71.6	26.2		33		0.2		0	2	0	0	2	4	0	0	22
Kashmore*	0000	255																					
	0300																						
	1200																						
Jacobabad	0000	183	990.5		996.7	86.4	76.5	71.5	26.7		61		0.0		2	0	2	1	25	0	0	0	0
	0300		991.9	+0.9	998.0	90.4	78.2	72.6	27.4	+3.9	56	—7	0.0	—0.6	0	0	3	16	7	2	0	2	0
	1200		988.0		993.8	111.4	79.8	61.9	20.3		22		0.1		0	0	1	8	10	4	1	5	1
JUNAGADH																							
Veraval (x)	0300	26																					
	0300																						
	1200																						
AFGHANISTAN																							
Jalalabad (x)	0300	1950																					
	1200																						
ARABIA																							
Muscat (x)	0300	28																					
	1200																						
HILL STATIONS KASHMIR																							
Srinagar (x)	0000	5203																					
	0300																						
	1200																						

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE, 1959.

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	8709																					
	1200																						
Gurez (x)	0300	...																					
	1200																						
Sonemarg (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																					
	0300																						
	1200																						
Aliabad (x)	0300	6850																					
	1200																						
Gilgit (Surface) (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	779.9		1427.5	64.5	54.7	46.4	11.2		54		1.9		1	3	1	6	0	2	1	15	1
	0300		781.9	+0.4	1440.3	71.9	58.5	48.5	12.0	—0.2	45	—7	2.1	—0.1	2	3	3	3	0	0	7	2	10
	1200		780.9		1421.3	77.1	61.5	51.0	13.1		41		3.4		1	7	3	5	0	1	6	7	0
PESHAWAR																							
Drosh	0000	4806	847.9		1442.9	71.8	56.5	42.0	9.4		36		1.0		0	2	0	3	0	0	0	0	25
	0300		848.8	+0.2	1451.3	78.6	60.8	45.8	10.8	—2.6	33	—17	1.2	+0.2	0	1	3	1	0	0	0	0	25
	1200		844.2		1406.3	91.5	64.4	41.9	9.6		19		3.3		0	2	0	0	1	21	1	0	5
Cherat	0000	4272	861.8		1421.0	77.9	61.9	50.2	13.5		38		0.5		13	3	1	7	2	0	1	2	1
	0300		862.4	-0.3	1428.9	80.5	63.9	51.5	13.5	—0.4	39	—6	0.3	—1.1	16	3	0	1	4	2	2	2	0
	1200		860.6		1413.0	91.8	69.5	55.1	15.8		31		1.3		7	4	0	8	6	3	1	1	0
Kakul	0000	4214	864.1		1425.3	74.3	59.8	47.3	11.7		40		1.6		14	6	1	1	0	2	1	4	1
	0300		865.1	...	1437.4	80.7	63.5	50.6	13.1	...	37	...	1.5	...	3	1	1	1	0	0	5	15	4
	1200		863.4		1420.1	90.8	64.7	43.2	10.3		21		2.8		0	1	0	2	5	12	5	5	0
Balakot	0000	3226	(x)		(x)	76.6	*	*	*		*		1.9		11	1	0	0	0	0	0	11	7
	0300		(x)		(x)	81.7	*	*	*		*		1.7		5	3	0	0	0	0	0	3	19
	1200		(x)		(x)	91.1	*	*	*		*		3.7		4	1	0	1	2	2	0	3	17
Landikotal	0000	3503	884.5		1413.6	77.8	60.9	46.5	11.5		35		0.6		0	1	0	0	0	7	1	0	21
	0300		885.7	...	1431.6	85.4	63.4	44.9	11.0	...	21	...	0.4	..	0	5	0	0	0	11	1	3	10
	1200		883.6		1415.1	93.8	66.7	47.1	11.3		21		2.0		0	2	1	15	0	8	1	3	0

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE, 1959.

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										
D. I. KHAN																							
Parachinar	0000	5673	(c) 820.8		(c) 1426.4	(c) 67.4	(c) 59.3	53.3	14.3		61		0.8		17	0	0	1	0	0	0	3	0
	0300		(b) 821.8	+0.3	(b) 1433.1	(b) 74.2	(b) 62.8	55.0	15.4	+3.4	51	+8	0.6	—0.8	1	0	0	0	0	1	4	4	20
	1200		820.6		1415.0	85.4	*	*	*	—	*		3.6		1	0	3	15	1	1	1	2	6
Miranshah	0000	3026	898.5		1405.6	80.4	*	*	—	—		—	0.2		0	3	0	0	0	1	0	0	26
	0300		900.2		1428.3	87.9	*	*	—	—		—	0.0	—1.4	0	3	0	0	0	0	0	2	25
	1200		897.8		1414.2	98.0	*	*	—	—		—	1.4		0	17	0	0	0	0	0	0	13
Wana	0300	4503	855.9	—	1432.1	79.1	60.7	43.8	10.7	—2.5	31	—12	0.0	—1.0	0	0	2	2	6	7	0	0	13
	1200		853.8		1412.1	94.5	63.7	35.0	7.6		14		1.9		0	1	11	8	2	3	4	0	1
QUETTA																							
Fort Sandeman	0300	4614	853.9	+1.6	1444.3	81.6	66.8	57.0	16.4	+3.6	45	—9	0.1	—0.6	2	3	0	0	1	6	3	1	14
	1200		851.1		1416.7	97.4	72.4	56.5	17.1		28		1.9		2	1	2	4	4	4	6	4	3
Hindubagh	0000	5909	812.5		1411.0	67.8	*	*					0.1		0	0	0	0	0	4	5	8	13
	0300		813.8		1420.1	76.4	*	*					0.1		0	0	0	0	0	8	4	6	12
	1200		811.7		1380.6	92.3	*	*					1.8		1	5	0	1	0	8	4	9	2
Loralai	0000	4699	848.6		1416.3	*	59.3						0.3		0	0	0	0	0	0	19	7	4
	0300		849.4		1425.0	74.3	62.1	53.2	14.1		48		0.3		0	0	0	0	0	2	11	11	6
	1200		847.3		1401.7	94.4	70.8	57.7	16.2		29		1.7		3	0	0	7	1	10	2	3	4
Ziarani	0300												0.1		0	0	0	0	0	0	30	0	0
	1200												0.3		0	0	24	0	4	0	2	0	0
Quetta (Samungli)	0000	5213	834.6		1429.9	64.4	50.5	36.2	7.6		36		0.2		0	1	5	12	1	0	1	0	10
	0300		835.5		1436.2	74.8	57.5	42.8	10.0		34		0.2		0	0	4	11	0	3	1	1	10
	1200		833.2		1405.7	92.8	61.9	33.1	7.8		15		1.3		1	0	0	4	2	1	8	13	1

*Data rejected. (b) Mean for 29 days. (c) Mean for 28 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE, 1959.

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	0300	5490	827.5	—0.3	1435.3	78.2	64.6	56.6	15.9	+0.5	48	—6	0.4	—0.1	2	4	1	2	6	4	0	1	10
	1200		825.6		1367.4	89.9	72.6	65.1	21.3		43		1.0		0	1	1	2	1	2	8	5	10
Chaman	0000	4311	861.4		1429.0	77.1	55.4	29.7	6.3		19		0.0		1	2	16	8	2	1	0	0	0
	0300		862.6	+1.0	1432.3	83.1	61.4	41.9	9.8	—1.0	24	—4	0.0	—0.4	0	0	8	11	8	1	1	1	0
	1200		861.1		1430.7	94.5	65.2	33.7	7.1		10		0.0		9	0	0	1	1	2	9	8	0
KALAT (NORTH)																							
Kalat (R)	0000	6616																					
	0300																						
	1200																						
Nushki	0000	3416	892.6		1474.0	86.0	63.5	46.2	10.9		25		0.3		2	0	20	3	2	0	1	0	2
	0300		893.8		1486.2	88.5	65.0	47.9	11.5		25		0.3		0	4	7	3	3	1	0	4	8
	1200		890.8		1469.2	104.5	71.5	49.9	12.9		17		0.8		4	1	1	1	6	2	3	10	2
Dalbandin	0000	2785	907.5		1415.4	76.9	57.1	37.7	8.0		25		0.4		1	3	1	1	1	3	5	10	5
	0300		908.9	+0.5	1435.7	83.7	60.6	39.7	8.7	—2.2	23	—5	0.4	—0.2	2	1	2	1	1	5	4	1	13
	1200		905.8		1428.6	105.7	69.5	42.9	9.9		13		0.9		1	3	1	5	4	3	0	12	1
KALAT (SOUTH)																							
Panjgur	0000	3177	897.0		1432.2	75.5	65.9	59.5	17.8		58		0.3		18	1	0	0		0	0	0	10
	0300		897.9	+1.3	1442.8	77.4	64.1	55.0	15.0	—3.8	46	—5	0.2	—0.4	1	4	1	1	1	0	0	2	20
	1200		895.5		1441.8	100.6	71.1	54.0	14.5		21		0.7		3	0	0	0	1	0	0	19	7
AFGHANISTAN																							
Kabul (R)	0300	5955																					
	1200																						
Kandahar	0300	3462	890.1		1452.3	73.0	64.6	60.1	17.4	—	62	—	0.3	—	0	1	3	1	2	2	0	0	21
	1200		887.1		1438.1	94.2	77.5	70.5	25.4		46		0.3		0	0	0	2	0	11	1	2	14

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JUNE, 1959.

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	88.9		95	4 days	75.4		70	6,12	16.49		2.81	13	17		x		10		3		
Cox's Bazar (P. T.)	87.0	+0.7	93	28	78.0	+1.6	72	2	21.60	—9.54	4.09	17	23	+3.9	x		16				
Chittagong (Patenga)	87.7		94	30	77.9		72	6	20.32		6.82	16	16		x		13		2		
Chittagong	87.2	+0.3	95	28	77.1	+0.3	73	17	24.74	+3.75	8.90	16	17	+0.3	4.2	—2.8	6				
Maijdee Court	87.3	+0.3	94	7	78.4	0.0	74	2	24.10	+3.54	3.00	12	16	—2.3	x		1				
Comilla	88.2	—0.1	98	27	78.6	+1.8	76	4 days	13.25	—5.03	2.40	16	18	+0.9	x		4				
Brahmanbaria	88.1	—2.1	95	7	78.0	+3.4	75	5 days	11.43	—3.12	1.75	16	16	0.0	4.0		7				
Srimangal	89.7	—0.2	98	20	78.1	+2.6	63	15	21.17	+2.3	3.84	16	23	+2.9	x		18				
Sylhet (P.B.O.)	85.3		95	7	76.1		73	4 days	63.18		14.50	18	23		x		15				
DACCA DIVISION																					
Mymensingh	88.0	+0.2	95	7	77.2	+0.3	73	1	21.64	+4.04	4.71	13	17	—0.8	2.1	—0.1	6				
Narayanganj	89.8	+0.6	96	7,28	79.4	+1.3	75	8	13.94	+1.55	2.69	8	12	—2.5	3.5	—0.8					
Dacca (Tejgaon)	88.5		95	7	79.0		74	18	14.22		3.15	10	13		6.1		11				
Faridpur	89.3	+0.1	93	4 days	77.5	+0.1	73	19	7.25	—5.54	2.70	12	11	—4.2	2.9	—3.6	1				
Barisal	89.3	+0.5	94	7	79.7	+1.4	72	11	16.34	+0.29	4.16	13	13	—3.7	x		3				
RAJSHAHI DIVISION																					
Khulna	90.3	—0.3	95	7	79.3	+0.4	75	1	12.09	—0.37	2.87	13	11	—3.7	3.5	—0.4					
Satkhira	91.0	—0.8	96	7	79.4	+0.6	74	1,19	13.61	+1.41	6.03	13	10	—3.7	1.2	—1.7					
Jessore	90.1	—0.6	94	5,6,28	79.1	+1.2	74	19	8.03	—4.19	1.99	12	10	—4.0	5.3	+2.3					
Pabna	90.4	—1.2	94	8,15	79.0	+3.4	72	19	5.10	—6.17	1.25	19	10	—4.5	x		6				
Serajganj	88.9		94	8	78.0		73	19,24	7.63	—4.69	1.43	19	12	—2.3	4.1		5				
Rajshahi									10.18	—1.04	1.40	22	13	—0.2							
Bogra (P.B.O.)	88.3	—1.5	94	7	78.6	+1.4	74	2	11.52	—1.52	4.28	2	14	—0.5	3.0	+0.9	10				
Dinajpur	88.7	—0.8	96	17	77.6	+0.3	74	24	11.47	—2.17	1.91	26	14	—0.1	2.1	—0.5	4				
Rangpur	88.0		94	16	76.9		73	4 days	23.03	+5.22	5.80	23	18	+2.3	3.3		3				

(x) Data not available.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JUNE, 1959.

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 Figures 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 (Jail Road)	108.3	+2.4	114	13,21	82.0	+3.0	74	18	0.23	—1.41	0.23	27	1	—1.8	2.5	+0.3	5	0	0	4	3
" (Cantt.)	107.4	—	114	21	82.5	—	77	18	0.06	—	0.06	27	0	—	5.0	—	7	0	0	0	1
" (Walton)	108.3	—	114	6,21	81.4	—	76	18	0.20	—	0.20	27	1	—	5.4	—	5	0	0	0	3
Sialkot	108.2	+3.2	114	22	83.8	+3.5	76	14	0.00	—2.39	0.00	—	0	—3.5	(e) 1.9	—0.2	0	0	0	0	4
RAWALPINDI																					
Jhelum	107.6	—	114	9	80.7	—	71	14	0.99	—	0.61	14	3	—	2.5	—	4	0	0	3	5
Chaklala	104.5	—	110	21	77.7	—	71	3,15,18	0.86	—	0.43	3	2	—	5.8	—	6	0	0	0	4
Rawalpindi	105.3	+1.8	110	21,23	78.7	+2.8	71	19	0.97	—1.34	0.60	3	2	—1.3	3.2	+1.1	4	0	0	0	3
Khushab	109.0	+2.4	115	21	81.2	—1.1	72	14	1.17	—0.24	0.67	2	2	—0.3	5.2	+0.2	0	0	0	3	0
Sargodha (x)																					
MULTAN																					
Lyalipur	108.5	+2.5	113	5 days	83.8	+2.1	76	18	0.00	—1.22	0.00	—	0	—2.1	2.8	0.0	7	0	0	0	3
Montgomery	109.5	+1.7	114	6,8	82.9	—0.4	73	19	0.00	—0.98	0.00	—	0	—1.6	2.8	—2.0	0	0	0	0	0
Multan (P.B.O.)	111.6	—	118	6	85.6	—	81	5 Days	0.00	—	0.00	—	0	—	7.6	—	1	0	0	1	2
" (Surface)	111.1	+4.5	118	7	86.5	+1.7	82	9	0.00	—0.55	0.00	—	0	—1.0	3.1	+0.8	1	0	0	1	2
BAHAWALPUR																					
Leiah	112.3	—	120	26	80.7	—	76	4	0.00	—	0.00	—	0	—	(h) 1.6	—	5	0	0	0	6
Khanpur (Surface)	111.9	+2.1	117	6	83.9	+0.9	77	19,22	0.00	—0.26	0.00	—	0	—0.6	5.6	—1.5	0	0	0	0	0
" (P.B.O.)	110.1	—	115	6	83.8	—	77	18	0.00	—	0.00	—	0	—	6.1	—	0	0	0	4	0
Bahawalpur	111.1	+2.7	117	6	85.3	+1.8	79	6,19	0.00	—0.28	0.00	—	0	—0.6	5.3	+0.8	0	0	0	0	1
Fort Abbas	111.5	—	120	6	87.0	—	79	18	0.00		0.00	—	0	—	6.2	—	0	0	0	0	0
PESHAWAR																					
Chakdara	101.1		106	20,21,22	71.6	—	65	16	0.00			3	0	—	4.5	—	0	0	0	0	0
Peshawar	105.9	+0.9	112	22	79.1	+1.9	69	16	0.19	—0.12	0.19	30	1	+0.1	2.3	+0.1	5	0	0	0	7
Risalpur	109.1	—	114	6,21	78.4	—	70	17	0.37		0.37	3	1	—	3.5	—					
Haripur	103.4	—	110	23,24	77.4		61		0.00		0.00	—	0	—	5.9	—	7	0	0	0	5
Campbellpur																					
D. I. KHAN																					
Kohat	106.5	—	112	21	83.0	—	74	16	0.09	—	0.09	15	0	—	4.4	—	12	0	0	0	3
Bannu	106.6	+0.5	112	21,22	80.7	+1.0	73	3,4	1.34	+0.43	1.34	3	1	—0.5	2.5	—	5	0	0	0	2
D. I. Khan	110.0	+2.2	114	6,11	80.2	—1.3	76	20	0.40	—0.21	0.40	30	1	—0.3	1.5	—0.3	0	0	0	0	0

(x) Data not available. (R) Register not received. (e) Mean for 26 days. (h) Mean for 29 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JUNE, 1959.

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	116.2	+3.5	124	9	84.6	—2.9	80	6,20,21	0.00	—0.30	0.00		0	+0.5	3.5	—1.4	0	0	0	0	0
KALAT (NORTH)																					
Nokkundi	108.4	—0.9	113	1,28,30	82.1	+0.3	75	17	0.00	0.00	0.00		0	0.0	x		0	0	0	0	0
KALAT (SOUTH)																					
Turbat (R)																					
Jiwani	93.0		99	11	81.4		77	4	0.00		0.00		0		8.7		0	0	0	0	0
Pasni	93.6	—0.2	101	10	79.7	+1.2	77	4	0.00	—0.26	0.00		0	—0.2	11.1	+4.5	0	0	2	0	0
Ormara	93.6	+0.9	100	3	81.8	—0.2	78	6,19	0.00	—0.03	0.00		0	—0.2	12.1	+3.3	0	0	0	0	0
Lasbela	110.5	+4.9	121	11	81.7	+1.3	79	10,11	0.00	—0.42	0.00		0	—1.2	x		1	0	0	0	0
FEDERAL CAPITAL AREA																					
Karachi (Manora)	90.7	+0.3	97	27	81.3	—1.0	79	4 days	0.00	—0.72	0.00		0	—0.6	x (0)		0	0	0	0	0
Karachi (Mauripur)	92.4		99	27	82.4		80	24,25	0.09		0.09	28	0		11.0		1	0	0	0	0
Karachi (City)	92.2		99	27,28,29	81.0		78	21	0.20		0.20	28	1		7.7 (c)		0	0	0	0	0
Karachi (P.A.F.)	94.0		101	27	82.4		79	28	0.15		0.15	28	1		15.9		1	0	0	0	1
Karachi (Airport)	94.1		103	27	82.5		80	24,28	0.03		0.03	28	0		10.8		2	0	0	0	1
HYDERABAD																					
Badin	102.2	+1.2	109	26	81.9	—0.1	80	23,27,28	0.00	—0.65	0.00		0	—0.8	3.2		0	0	0	0	2
Nagarparkar	105.3		112	25,26,27	81.4		76	27	0.00		0.00		0		1.6		0	0	0	0	0
Umarkot	106.2		112	5	81.0		78	23	0.00		0.00		0		9.7		0	0	0	0	0
Chhor	104.8		111	6	81.1		77	20	0.00		Tr	27	0		8.6		0	0	0	0	0
Hyderabad	105.8	+1.3	115	6	82.2	+0.2	80	18,20,24	0.00	—0.39	Tr	28	0	—0.6	9.4	—0.4	1	0	0	0	1
KHAIRPUR																					
Padidan	112.1		119	5	81.6		78	19	0.00		Tr	18	0		7.8		0	0	0	0	0
Nawabshah	110.1		117	4,5,6	81.7		79	19	0.00		0.00		0		8.4		1	0	0	0	0
Sukkur	110.3	+1.2	116	6,7	83.3	—0.1	79	21	0.00	—0.14	0.00		0	—0.5	1.3	—2.9	0	0	0	0	0
Kashmore	*				*				0.00		0.00		0		x		0	0	0	0	0
Jacobabad	103.2	—0.7	123	5	85.2	+0.3	80	18	0.00	—0.26	0.00		0	—0.3	7.0	+0.8	1	0	0	0	1
JUNAGADH																					
Veraval (x)																					
AFGHANISTAN																					
Jalalabad (x)																					
ARABIA																					
Muscat																					
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. (a) Mean for 26 days. (c) Mean for 16 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JUNE, 1959.

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																					
Aliabad (x)																					
Gilgit (Surface)																					
RAWALPINDI																					
Murree	80.0	—0.7	87	23	62.5	+2.0	52	3	4.86	+0.88	2.20	4	6	+0.2	5.7	+1.7	8	0	1	0	0
PESHAWAR																					
Drosh	97.3	+5.4	108	29,30	70.3	+1.8	60	17	0.10	—0.55	0.08	17	0	—2.0	4.3	+0.6	7	0	0	0	0
Cherat	95.9	+2.7	101	25,26	75.5	+2.3	68	18	1.02	—0.12	1.02	3	1	—1.0	*	—	2	0	0	0	0
Kakul	93.8	—	99	22	72.3	—	62	3	2.50	—	0.84	30	4	—	x	—	10	1	0	0	2
Balakot	96.1	—	100	22,23	74.4	—	62	26	1.52	—	0.60	3	3	—	5.6	—	7	0	0	0	4
Landikotal	97.4	—	103	5	x	—	—	—	0.07	—	0.03	14	0	—	2.5	—	4	0	0	0	0
D. I. KHAN																					
Parachinar	89.1	+1.4	94	21,22,29	(b) 64.8	+1.1	57	16	2.09	+0.09	1.30	2	4	—0.5	2.5	+0.1	14	0	0	0	0
Miranshah	100.2	+1.3	106	6 days	77.4	+0.3	68	17	0.30	—0.61	0.17	30	2	+0.4	5.1	—0.1	0	0	0	0	0
Wana	97.5	+2.9	102	21,22	67.9	—0.4	56	9	0.68	+0.25	0.68	3	1	—0.5	3.9	—	3	1	0	0	0
QUETTA																					
Fortsandeman	100.6	+1.4	104	8,26,29	74.8	+1.9	69	18	0.00	—0.64	0.00		0	—1.3	3.3	+0.5	0	0	0	0	0
Hindubagh	*				*				0.00		0.00		0		5.3		0	0	0	0	0
Loralai	97.3		101	20,21	62.7		57	15,18	0.00	—0.35	Tr	4days	0	—0.1	4.0		1	0	0	0	0
Harnai									0.00	—0.75	0.00		0	—1.5	x		0	0	0	0	0
Quetta (Samungli)	95.0		97	30,31	61.1		50	17,18	0.00		0.00		0		5.0		2	0	0	0	0
Quetta	94.1		97	25,29	61.9		52	18,19	0.03		0.03	28	0		3.9	+1.7	0	0	0	0	0
Chaman	99.9	+1.1	105	27,28,30	71.4	—0.8	64	15	0.00	—0.02	0.00		0	0.0	x		0	0	0	0	0
KALAT (NORTH)																					
Kalat (R)																					
Nushki	107.1		112	28,29,30	81.8		76	4days	0.00		0.00		0		x		0	0	0	1	[illegible]
Dalbandin	107.7	+0.4	111	8,28,30	73.7	+0.7	63	18	0.00	—0.01	0.00		0	0.0	4.9	+0.1	1	0	0	0	[illegible]
KALAT (SOUTH)																					
Panjgur	102.3	—0.9	107	1	71.9	—2.7	63	19	0.14	+0.02	0.14	28	1	+0.6	x		0	0	0	0	0
AFGHANISTAN																					
Kabul (R)																					
Kandahar	98.0		103	1	65.1	—	60	11,17,18	0.01	—	0.01	3	0	—	1.0	—	3	0	0	0	6

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

REGD. No. S - 1452

PAKISTAN WEATHER REVIEW, 1959

MONTHLY WEATHER REPORT

July

(PUBLISHED BY THE AUTHORITY OF GOVERNMENT OF PAKISTAN)

Chief Features:

Locally heavy to very heavy rainfall followed by extensive floods in a number of divisions of West Pakistan during the first week under the influence of two monsoon depressions and four westerly low pressure waves which moved across the north of the region.

2. Another pronounced spell of wet weather over the northern parts of West Pakistan from the middle of the third week till about the end of the month causing recurrence of floods.

3. Formations of four depressions in the north Bay of Bengal during the month.

West Pakistan

Last month's depression which was centered near Seoni on the 30th evening moved westwards and emerged into north Arabian Sea by the 2nd morning whereafter it moved slowly in a northly direction and finally weakened into a low over Hyderabad division by the 5th morning. It was closely followed by another depression which formed in the north Bay of Bengal at the beginning of the month, crossed Orissa coast during the night of 4th and after moving initially west-northwestwards and then northwestwards finally weakened into a low over northwest Uttar Pradesh and adjoining areas by the 8th morning. Under the influence of these depressions and four westerly low pressure waves which moved across the north of the region a spell of wet weather was experienced practically throughout West Pakistan between the 1st and the 8th with locally heavy to very heavy rainfall in Peshawar, D.I. Khan, Rawalpindi, Multan, Lahore and Hyderabad divisions and the Federal Capital Area causing floods in rivers Chenab, Jhelum and Ravi and inundating extensive areas in the districts of Sialkot and Jhelum and bringing untold misery and suffering to the people of Hyderabad division and the Federal Capital Area.

Light wet spell continued in the northern parts of the region during the second week and earlier part of the 3rd week under the influence of six westerly low pressure waves which moved across the north of the region while the weather in the southern parts of the region was influenced by a low which appeared over West Rajasthan on the 13th and filled up after moving to Hyderabad division by the 15th and a depression which moved westwards from the Bay of Bengal, emerged in the north Arabian Sea on the 1st and continuing to move in the same direction finally crossed Arabian Coast by the 19th morning whereafter it weakened and became unimportant. They caused mainly scattered to local light to moderate rain in Hyderabad, Khairpur, Quetta and Kalat divisions and the Federal Capital Area between the 14th and the 17th.

From about the middle of the third week till the end of the month pronounced wet weather occurred in the northern parts of West Pakistan under the influence of a series of active westerly low pressure waves which moved across the north of the region and occasionally extended to the southern parts under the influence of three monsoon lows two of which moved westwards and merged into the seasonal low over Kalat and Quetta divisions while the third emerged into eastern sector of North Arabian Sea on the 25th and filled up over there on the next day. As a result of these heavy rains in the northern divisions the floods which had commenced during the earlier part of the month again took a grave turn and extensive damage to property and loss of life occurred in the districts of Sialkot and Sheikhupura while almost all the rivers in the region overflew their banks.

The intensity of the heavy downpours can be judged from the fact that 16" of rain fell at Sheikhupura during 36 hours ending on the 24th of July while provincial rainguage station at Hafizabad reported 10-1/2" of rain and Mithankot 9.7" on the 23rd and Gujranwala 8.5" on the 24th. Other outstanding amounts of rainfall were Kakul 4" and Rawalpindi 3" on the 2nd, D. I. Khan 4" and Karachi (Manora) 3" on the 3rd; Sialkot 7", Khushab and Kakul 6" each, Murree 5" and Campbellpur and Karachi Airport 4" each on the 4th; Sialkot 7", Murree 4" and Jhelum 3" on the 5th; Sialkot 3" on the 6th; Khushab and Wana 3" each on the 21st, Fort Abbas 3" on the 22nd; Murree 3" on the 23rd and Bahawalpur 1/2" on the 30th and Umerkot 3" on the 29th and Kahuta 7" and Kakul 3" on the 30th.

The total rainfall during the month was in large defect in Bahawalpur division, in slight defect in Kalat division, in moderate excess in Peshawar 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, Kalat, Hyderabad division and the Federal Capital Area and below normal elsewhere.

The mean minimum temperature was normal over the whole region except in D. I. Khan and Quetta divisions where it was below normal.

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

The mean cloud amount was normal in Bahawalpur, and Kalat divisions and the Federal Capital Area and in excess over rest of the region.

East Pakistan

Four depressions formed in the north Bay of Bengal during the month and moved away westnorthwestwards. The first formed on the 3rd morning when it was centered within a degree of latitude 18-1/2°N and longitude 87°E. It crossed coast the same night. The second formed during the night of the 9th and lay as a deep depression within a degree of latitude 21-1/2°N and long itude 90-1/2°E. It crossed Orissa coast during the night of the 10th.

The third formed by the 17th morning when it lay with its centre near latitude 18 1/2°N and longitude 87-1/2°E. It deepened the same evening and crossed coast near Balasore by the 20th morning. The fourth formed on the22nd morning and was centered within a degree of latitude 18-1/2°N and longitude 87°E. It crossed coast during the following night.

In the wake of these depressions monsoon activity occasionally increased over East Pakistan and heavy falls were recorded over there otherwise only mild monsoon activity was experienced over the region during the month and on the whole the month's rainfall was nearly normal.

Noteworthy amounts of rainfall were:—Satkhira 4" on the 29th Barisal 3" on the 11th, Cox's Bazar 6" and Chittagong 5" on the 6th, Maijdee Court 7" and Comilla 4" on the 8th, Brahmanbaria and Khulna 4" each on the 9th, Cox's Bazar 10", Chittagong and Maijdee Court 6" each on the 11th, Cox's Bazar 7" on the 12th, Srimangal 3" on the 21st and Sylhet 4" on the 25th.

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

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

Table I contains the divisional means of rainfall, temperatures, relative humidity and the cloud amount for the 15 divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

(Sd.) MUHAMMED SAMIULLAH,
for *Director,*
Meteorological Services.

TABLE I.—DIVISIONAL MEANS FOR JULY, 1959.

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
	"	"	"		o	o	Mb.	%	
EAST PAKISTAN									
Chittagong	23.46	20.71	+2.75	+13	+0.6	+0.8	+0.2	—2	+0.4
Dacca	15.43	14.51	+0.92	+6	+0.1	0.0	+0.3	—1	+0.1
Rajshahi	11.67	13.16	—1.49	—11	—0.5	+0.9	+0.5	+1	+0.5
Mean	16.42	15.90	+0.52	+3	0.0	+0.6	+0.3	—1	+0.3
WEST PAKISTAN									
Kashmir (x)									
Lahore	18.94	6.90	+12.04	+174	—3.8	—1.3	+0.9	+4	+1.2
Rawalpindi	15.82	8.12	+7.70	+95	—4.8	—1.4	+1.0	+7	+1.2
Multan	4.18	2.43	+1.75	+72	—2.2	—1.1	+0.5	+5	+0.5
Bahawalpur	0.67	2.44	—1.77	—73	—1.5	+0.5	+0.7	+2	+0.2
Peshawar	2.50	1.83	+0.67	+37	—3.8	—1.5	+2.1	+2	+1.1
D. I. Khan	6.62	1.95	+4.67	+239	—4.8	—2.9	+1.9	+9	+0.7
Quetta	3.75	1.65	+2.10	+127	—3.0	—4.7	+2.1	+7	+0.9
Kalat	0.60	0.78	—0.18	—23	+0.6	+1.1	—0.4	—4	—0.1
Federal Capital Area	6.45	3.20	+3.25	+102	+1.1	—0.5	+2.7	—3	+0.2
Hyderabad	7.59	3.47	+4.12	+119	—1.7	—1.0	+3.1	+11	+1.6
Khairpur	2.36	1.19	+1.17	+98	—4.1	—0.3	0.0	+1	+1.1
Mean	3.82	2.13	+1.69	+79	—1.8	—0.7	+1.1	+3	+0.6
Junagadh (x)									

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY, 1959.

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	995.6		1002.8	77.3	76.2	75.6	30.4		95		6.8		4	0	0	3	15	0	0	0	9
	0300		996.9		1004.0	83.3	78.7	76.7	31.4		81	...	5.9	...	4	0	4	1	20	1	1	0	0
	1200		993.6		1000.7	82.0	78.8	77.2	32.2		87		6.7		1	0	0	1	20	0	3	0	6
Cox's Bazar (P.T.)	0300	38	1001.4	+0.1	1002.7	81.9	78.4	77.0	31.6	—0.3	85	—3	5.8	—0.7	0	0	3	14	12	2	0	0	0
	1200		999.3		1000.6	80.9	78.3	76.1	33.0		87		6.0		0	0	2	13	13	3	0	0	0
Chittagong (Patenga)	0000	20	1000.8		1001.5	78.5	76.9	76.4	30.9		93		6.6		0	3	3	18	2	0	0	0	5
	0300		1002.0		1002.7	83.1	79.0	77.2	32.0		83		6.5		0	2	4	20	4	0	0	0	1
	1200		999.2		999.9	82.8	79.4	78.1	32.8		85		7.0		0	0	0	14	11	6	0	0	0
Chittagong	0300	46	1001.0	+0.1	1002.6	82.4	78.1	76.5	30.9	—0.3	82	—4	6.1	—0.2	0	3	4	18	6	0	0	0	0
	1200		998.4		1000.0	81.6	78.2	77.2	31.6		85		7.1		0	0	2	13	12	4	0	0	0
Maijdi Court	0000	25	1000.1		1001.0	80.0	78.0	77.3	31.9		91		6.6		1	1	3	11	10	0	0	0	5
	0300		1001.7	+0.7	1002.5	82.3	78.9	77.4	32.2	—0.4	85	—3	(a) 6.6	+1.0	0	0	1	11	(a) 9	0	0	0	9
	1200		998.3		999.2	84.3	79.5	77.6	32.2		80		6.7		0	0	0	12	14	3	0	0	2
Comilla	0000	29	1000.4		1001.4	78.7	77.5	77.0	31.7		94		7.2		0	0	0	0	2	0	0	0	29
	0300		1001.9	+0.9	1002.9	82.7	79.1	77.5	32.4	+0.2	85	0	6.7	+0.9	0	0	0	0	4	0	0	0	27
	1200		998.6		999.6	84.8	80.2	78.1	33.0		81		6.2		0	0	0	0	6	0	0	0	25
Brahmanbaria	0000	32	1000.1		1001.2	80.0	77.9	77.1	31.7		91		7.4		0	0	5	11	4	0	0	0	11
	0300		1001.2		1002.3	83.8	79.6	77.7	32.7	+1.9	82	+1	6.2		0	2	3	13	8	0	0	1	4
	1200		998.2		999.3	84.6	80.4	78.8	33.6		82		6.3		0	0	0	6	7	2	0	0	16
Srimangal	0000	69	999.5		1002.0	77.4	76.4	75.8	30.6		95		6.4		0	0	0	0	0	0	0	0	31
	0300		1000.4	+0.3	1002.8	83.2	78.9	76.9	31.8	0.0	82	—4	6.3	+0.9	0	0	1	4	2	0	0	0	24
	1200		997.1		999.5	85.6	79.9	78.2	32.3		77		6.3		0	0	0	0	0	0	0	1	30
Sylhet (P.B.O.)	0000	115	996.2		1000.2	78.5	77.4	76.8	31.6		95		7.0		0	4	7	5	1	0	1	0	13
	0300		998.6		1002.6	82.0	78.8	77.4	32.2		86		6.8		0	1	15	9	0	0	0	0	6
	1200		995.1		999.0	84.3	80.2	78.6	33.3		83		6.1		0	0	0	1	1	1	5	1	22
Dacca Division																							
Mymensingh	0000	62	999.1		1001.2	80.4	78.9	78.4	33.0		93		6.6		0	0	3	13	0	0	2	0	13
	0300		1000.3	+0.6	1002.4	83.1	79.7	78.3	33.1	+0.6	85	—2	5.3	—1.6	0	0	2	19	0	0	1	0	9
	1200		997.0		999.1	84.9	80.2	78.2	33.1		80		6.4		0	0	3	8	0	0	5	0	15
Narayanganj	0000	26	999.6		1000.5	80.8	78.9	78.3	32.9		91		7.8		0	0	8	12	4	2	0	1	4
	0300		1000.6	+0.1	1001.5	83.9	79.9	78.3	33.1	+0.2	83	—2	7.6	+0.6	0	0	10	14	4	0	0	0	3
	1200		997.7		998.6	85.4	80.0	77.6	32.6		77		7.1		0	0	4	7	13	1	0	0	6
Dacca (Tejgaon)	0000	27	999.1		1000.0	79.6	78.6	78.3	33.0		96		7.6		0	0	3	16	3	3	0	1	5
	0300		1000.2		1001.1	82.7	79.9	78.7	33.6		88		7.6		0	0	2	21	2	3	0	0	3
	1200		997.1		998.0	84.2	80.2	78.6	33.4		83		6.6		3	0	0	16	7	3	1	0	4

(b) Observation for 30 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY, 1959.

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 980.700 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																							
Faridpur	0000	46	998.7		1000.3	79.8	78.9	78.5	33.4		96		6.9		0	0	0	11	15	0	0	0	5
	0300		1000.2	+0.9	1001.8	82.7	79.9	78.5	33.5	—0.2	87	+2	7.1	+0.9	0	0	2	10	14	0	0	0	5
	1200		997.4		999.0	85.2	80.1	79.0	32.7		79		5.6		0	0	1	12	16	0	0	0	2
Barisal	0000	11	999.8		1000.2	80.5	78.8	77.3	32.8		92		6.2		0	1	2	11	1	0	0	1	15
	0300		1001.1	+0.4	1001.5	83.3	80.0	79.1	33.5	+0.4	86	—1	7.0	+0.7	1	0	2	2	13	0	0	0	13
	1200		998.4		998.8	84.6	79.6	78.4	32.3		79		6.3		0	1	1	6	12	0	0	0	11
Rajshahi Division																							
Khulna	0000	16	999.3		999.8	80.0	79.1	78.8	33.6		96		6.5		0	1	2	2	2	1	0	0	23
	0300		1000.5	+0.7	1001.1	83.3	80.3	79.2	34.0	+1.2	87	+4	7.1	+0.1	0	0	1	12	4	1	0	0	13
	1200		997.7		998.2	83.8	80.4	79.2	34.0		85		6.5		0	0	0	13	4	1	0	0	13
Satkhira	0000	16	999.0		999.5	80.1	79.1	78.6	33.5		96		6.8		0	0	0	0	0	1	0	0	30
	0300		1000.0	+0.5	1000.6	83.8	80.4	78.9	34.0	+0.3	85	0	7.6	+1.7	0	0	3	2	1	1	0	0	24
	1200		997.7		998.3	84.2	80.7	78.7	34.2		85		7.1		0	0	1	0	5	3	0	0	22
Jessore	0000	26	998.7		999.6	79.8	78.9	78.9	33.4		96		6.3		0	3	4	11	8	0	0	2	3
	0300		999.8	0.0	1000.7	83.4	80.6	79.5	34.4	+0.2	88	+3	7.0	+0.6	0	3	6	9	9	3	0	1	0
	1200		997.2		998.1	85.2	81.5	80.2	35.0		84		5.3		1	0	6	8	16	0	0	0	0
Pabna	0000	48	997.3		998.9	79.9	79.0	78.9	33.5		96		7.6		0	4	4	23	0	0	0	0	0
	0300		998.2		999.8	83.4	80.3	79.0	33.9	+0.3	87	+3	7.2		0	3	4	22	1	1	0	0	0
	1200		995.3		996.9	84.0	80.2	78.7	33.5		83		6.7		0	4	1	22	1	1	1	1	0
Serajganj	0000	51	998.3		1000.0	80.4	79.1	78.9	33.3		94		6.8		0	0	7	7	4	1	0	0	11
	0300		999.0		1000.7	83.1	78.5	78.4	31.2		81		7.1		0	0	12	3	6	1	0	1	8
	1200		995.3		997.0	84.4	80.3	78.5	33.4		83		6.8		0	0	3	5	1	1	0	0	11
Rajshahi	0300												7.4										
Bogra (P.B.O.)	0000	65	997.7		999.9	80.5	79.2	78.7	33.4		94		6.7		1	0	12	5	1	4	0	0	8
	0300		999.0	+0.4	1001.2	83.6	80.2	78.6	33.7	+0.5	85	0	6.9	+0.6	0	1	16	9	0	4	1	0	0
	1200		995.8		998.0	84.9	80.5	78.8	33.6		81		6.6		0	0	6	13	5	2	0	0	5
Dinajpur	0000	123	995.8		1000.0	80.3	78.3	77.1	32.2		91		4.8		0	1	8	0	(a) 0	0	0	0	21
	0300		997.0	+0.5	1001.2	84.2	80.1	78.5	33.2	+0.4	83	—3	5.6	—0.6	0	0	4	0	0	0	0	0	27
	1200		993.7		997.9	85.7	80.9	78.6	33.8		80		4.6		0	0	4	0	0	(a) 0	0	0	26
Rangpur	0000					80.2	78.9	78.5	33.1		94		5.8		0	5	14	3	2	0	0	0	7
	0300					83.5	80.3	79.1	33.9		86		5.8		0	3	11	14	0	1	1	0	1
	1200					86.2	81.0	79.0	33.8		79		5.3		1	1	2	18	3	2	1	0	3

(a) Observation for 30 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY, 1959.

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	973.5		997.2	81.9	77.8	75.8	30.7		83		3.8		0	3	4	8	0	1	0	0	15
	0300		974.7	+0.7	998.3	85.3	78.7	75.7	30.5	+1.1	73	+4	4.0	−0.8	0	3	2	14	0	1	0	1	10
	1200		972.1		995.3	92.8	80.5	75.1	30.0		57		4.2		2	7	0	6	0	2	1	2	11
,, (Cantt.)	0000	703	973.0		997.0	81.8	78.1	76.6	31.2		84		4.0		1	5	11	9	3	0	0	1	1
	0300		974.2		998.0	84.9	79.1	76.5	31.3	—	76	—	4.3	—	2	4	7	12	2	1	1	0	2
	1200		971.6		995.0	92.5	80.7	75.7	30.4		58		4.1		3	4	6	6	4	1	2	4	1
,, (Walton)	0000	699	973.4		996.9	81.7	78.1	76.5	31.2		85		3.6		0	1	6	17	1	0	0	0	6
	0300		974.5	—	997.9	85.9	79.2	76.5	31.1	—	73	—	3.4	—	1	2	5	13	5	0	1	2	2
	1200		971.6		994.8	93.0	81.2	76.1	31.0		58		3.7		5	6	5	9	2	1	0	3	0
Sialkot	0000	830	(b) 969.2		(b) 997.3	(b) 80.1	(b) 75.8	(b) 74.4	28.5		80		(b) 3.9		(b) 0	3	0	4	0	0	0	0	22
	0300		970.6	+0.6	998.5	82.9	78.0	75.5	30.5	+0.6	79	+4	4.8	+1.6	0	5	0	3	0	0	0	1	22
	1200		(a) 968.0		(a) 995.5	(a) 90.1	(a) 80.6	(a) 76.5	31.2		65		(a) 3.2		(a) 0	0	0	4	0	5	0	5	16
RAWALPINDI																							
Jhelum	0000	765	971.3		997.3	80.0	76.9	75.4	30.3		87		4.3		0	2	2	1	0	3	0	0	23
	0300		972.7		998.6	82.6	77.1	74.7	29.6		77		4.6		0	4	1	8	0	2	0	4	12
	1200		969.7		995.1	91.4	80.1	75.3	30.4		59		3.8		0	4	0	9	1	0	2	3	12
Chaklala	0000	1667	942.7		998.4	77.2	74.4	73.5	27.9		87		4.3		3	7	6	3	1	1	0	1	9
	0300		943.6		999.1	80.8	75.2	72.8	27.6		77		4.7		1	7	6	5	3	0	2	1	6
	1200		941.5		995.8	89.7	76.6	71.0	26.0		54		3.7		0	3	1	6	9	3	8	0	1
Rawalpindi	0000	1676	(a) 942.2		(a) 998.2	77.5	74.6	73.2	28.1		86		4.1		2	3	3	1	1	0	2	3	16
	0300		943.3	+1.0	999.0	81.8	76.1	73.7	28.4	+1.9	76	+10	4.9	+1.5	3	1	8	2	2	0	3	0	12
	1200		940.7		995.5	89.6	78.5	74.4	28.2		61		3.8		4	1	1	5	4	0	3	0	13
Khushab	0000	616	976.3		997.1	81.5	77.7	75.4	30.7		84		2.7		0	0	13	1	0	1	0	0	16
	0300		977.6	+0.9	998.4	84.8	78.2	75.3	30.0	+0.9	73	+7	2.9	+0.4	0	3	14	1	0	0	0	0	13
	1200		975.2		995.8	93.8	80.8	75.1	30.0		55		2.6		0	5	7	6	2	0	0	0	11
Sargodha (R)	0000	614																					
	0300																						
	1200																						
MULTAN																							
Lyallpur	0000	605	976.1		996.5	82.7	77.6	74.9	30.0		79		2.2		0	5	0	4	1	1	0	1	19
	0300		977.1	+0.6	997.5	85.3	78.6	75.4	30.4	+2.2	73	+10	4.1	+0.9	0	3	2	3	1	1	4	4	13
	1200		974.6		994.6	93.5	80.5	74.7	29.6		55		4.9		1	5	2	5	2	1	2	3	10
Montgomery	0000	558	977.7		996.1	83.0	78.1	75.8	30.5		79		1.2		0	0	1	1	0	0	0	0	29
	0300		979.0	+0.9	997.6	86.4	79.4	76.1	31.1	−0.6	72	+2	1.3	−0.6	0	0	0	7	0	0	0	0	24
	1200		976.5		994.9	96.1	81.1	74.2	29.3		50		2.5		0	0	3	6	0	1	0	0	21
Multan (P.B.O.)	0000	404	982.3		996.0	84.6	78.7	76.1	30.9		75		3.0		4	4	1	4	4	3	0	0	11
	0300		983.6	—	997.2	88.4	80.0	76.3	31.2		67		2.7		3	8	4	2	5	6	0	0	3
	1200		980.8		994.1	96.5	81.2	74.7	30.6		50		3.9		7	7	3	0	2	8	2	1	1
Multan (Surface)	0300	413	983.1	+0.6	996.9	88.0	80.6	77.5	32.3	−0.1	71	+3	3.0	+1.2	4	8	1	4	3	6	0	1	4
	1200		980.5		994.1	96.9	82.1	75.9	30.7		52		3.6		4	5	2	3	2	7	1	4	3

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY, 1959.

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	6	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										
BAHAWALPUR																							
Leiah	0000	490	*		*	81.8	80.4	79.8	34.5		93		4.1		11	2	0	9	1	0	0	0	17
	0300		*		*	85.6	82.5	81.5	36.5		88		4.5		11	1	1	1	2	0	0	0	15
	1200		*		*	84.1	84.1	79.5	34.8		61		5.0		11	0	0	2	2	0	0	1	15
Khanpur (Surface)	0000	297																					
	0300		986.6	—0.1	996.6	88.0	80.3	76.8	32.0	+2.6	70	+4	2.2	+0.1	4	7	1	1	1	10	7	0	0
	1200		983.4		993.1	100.7	83.1	75.6	30.6		46		2.9		7	6	2	1	2	3	6	4	0
Khanpur (P.B.O.)	0000	290	986.1		996.0	84.2	78.9	76.6	31.3		78		2.3		1	8	0	1	1	14	1	0	5
	0300		987.1		997.0	87.6	80.2	77.1	31.9	—	71	—	1.9	—	0	10	0	1	0	15	1	0	4
	1200		983.6		993.1	98.5	80.8	72.9	27.8		45		325		8	7	4	1	0	7	2	1	1
Bahawalpur	0300	384	983.9	+0.3	996.8	88.0	79.7	76.5	30.8	—1.1	68	0	1.7	—0.5	1	5	2	2	3	5	1	0	12
	1200		981.4		994.0	99.0	81.6	73.8	28.8		45		3.3		1	3	1	4	2	6	0	6	8
Fort Abbas	0000	475	(j) 981.2		(j) 997.2	(a) 85.3	(a) 79.5	(a) 76.6	31.9		76		(a) 2.6		(a) 1	7	1	3	1	12	2	1	2
	0300		(a) 981.6		(a) 997.5	(a) 89.6	(a) 81.0	(a) 76.9	32.3	—	68	—	(a) 1.9	—	(a) 1	6	1	3	2	12	3	1	1
	1200		978.6		994.3	96.7	81.3	74.7	29.3		50		3.1		1	11	2	3	2	8	2	1	1
PESHAWAR																							
Chakdara	0000	2197	923.1		996.3	75.4	71.4	69.6	24.7		82		4.4		0	0	0	0	0	0	1	0	30
	0300		924.4		997.0	79.1	73.0	69.8	25.3	—	74	—	4.2	—	0	0	4	0	0	0	0	0	27
	1200		921.4		992.2	90.0	(i) 76.5	(i) 70.8	25.4		52		3.1		0	1	1	0	0	12	8	0	9
Peshawar	0000	1177	957.7		997.1	80.1	74.8	72.2	27.1		77		3.8		3	3	0	0	3	0	2	6	14
	0300		958.9	+0.6	998.0	84.1	76.5	72.8	27.7	+2.3	69	+11	3.8	+1.0	12	2	0	2	1	0	0	10	4
	1200		955.9		994.3	94.0	78.3	70.2	25.9		48		4.0		5	16	2	1	3	1	0	2	1
Risalpur	0000	1009	963.3		997.2	81.0	74.7	71.6	26.5		73		4.2		0	9	6	2	1	0	1	0	12
	0300		964.7	—	998.3	85.0	76.4	72.2	27.2	—	66	—	4.2	—	1	5	5	7	4	1	3	0	5
	1200		961.4		994.3	96.2	77.7	68.2	24.0		40		4.0		2	7	6	8	1	1	2	1	3
Haripur	0300	1757	939.2	—	997.3	82.3	75.4	72.3	27.2	—	71	—	4.3	—	0	6	1	5	0	18	0	1	0
	1200		938.4		993.8	88.9	*	*	*		*		3.8		0	1	0	2	0	28	0	0	0
Campbellpur (R)	0300	1175																					
	1200																						
D. I. KHAN																							
Kohat	0000	1667	942.7		998.0	81.6	75.8	73.3	28.1		75		3.7		3	0	2	3	0	1	1	8	13
	0300		943.8	—	998.9	84.6	76.9	73.7	28.4	—	70	—	3.8	—	1	2	6	1	2	2	1	3	13
	1200		941.4		995.7	91.7	78.4	72.3	27.8		55		3.9		0	1	6	6	5	7	2	1	3
Bannu	0000	1263	954.1		996.5	81.3	76.5	73.8	29.0		79		3.6		0	2	2	2	0	0	1	3	21
	0300		954.9	—	997.0	84.2	77.5	74.0	29.2	+2.7	72	+14	2.8	+0.7	1	3	1	4	1	0	3	0	18
	1200		952.8		994.2	93.0	78.9	72.3	27.3		52		3.0		0	2	2	15	4	2	1	2	3
D. I. Khan	0000	570	976.9		996.2	81.4	78.8	77.5	33.0		89		1.5		0	0	0	0	0	1	0	1	29
	0300		978.2	+0.9	997.4	85.8	80.5	78.4	33.2	+2.3	78	+9	3.2	+1.2	2	15	1	0	0	0	0	0	13
	1200		975.3		994.2	94.8	85.1	81.8	36.8		66		3.4		1	4	1	1	0	0	0	2	22

(*) Data rejected. (R) Register not received. (a) Mean for 27 days. (i) Mean for 22 days. (j) Mean for 21 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY, 1959.

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 pressure level in 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										
QUETTA																							
Sibi	0000	441	*			*	*						2.2		1	2	0	4	0	2	0	3	19
	0300		981.6	0.7	996.4	87.4	79.2	75.5	30.3	+3.2	68	+13	2.7	+1.1	0	2	1	7	3	0	3	2	13
	1200		978.5		993.0	100.9	80.8	71.8	26.7		40		3.6		0	1	0	10	9	8	1	2	0
KALAT (NORTH)																							
Nokkundi	0000	2229	921.6		994.0	85.7	63.5	47.5	11.3		27		0.2		11	4	4	0	0	0	0	10	2
	0300		923.0		994.9	89.2	67.2	52.8	13.9	—3.3	29	—9	0.8	—0.2	7	5	4	2	1	0	0	8	4
	1200		919.9		988.6	106.1	69.6	43.7	9.9		12		0.5		12	0	0	1	1	1	1	14	1
KALAT (SOUTH)																							
Turbat	0000	510	980.9			*	*	*	*				1.8		1	0	0	3	7	9	8	1	2
	0300		980.0		997.1	86.7	80.8	77.9	33.2		76		2.1		0	0	1	3	5	2	11	2	0
	1200		977.7		994.1	106.4	84.4	74.4	31.8		38		2.6		0	0	1	3	5	12	8	2	0
Jiwani	0000	185	990.0		996.3	83.4	79.6	78.0	32.7		84		4.3		0	0	6	5	5	6	1	0	8
	0300		991.0		997.3	85.0	80.3	78.4	33.2		80		5.6		0	0	9	9	4	4	1	0	4
	1200		988.8		995.0	88.5	81.3	78.4	33.2		72		3.2		0	0	0	7	8	16	0	0	0
Pasni	0000	28	995.6		996.5	83.6	80.3	79.0	33.8		86		4.5		0	2	1	1	3	6	5	1	12
	0300		996.3	—1.7	997.2	85.8	81.6	80.0	35.1	+2.5	83	+1	5.7	+0.7	0	1	3	2	2	6	4	2	11
	1200		994.0		994.9	90.4	83.8	81.3	36.2		75		4.1		0	0	0	5	12	13	1	0	0
Ormara	0000	15	995.8		996.3	83.6	81.0	79.9	34.9		89		6.3		0	0	2	0	0	3	16	1	9
	0300		996.7		997.1	86.5	81.3	79.1	34.1	+2.5	79	—4	5.9	+0.2	1	0	3	0	0	4	14	1	8
	1200		994.3		994.8	90.5	80.8	76.5	31.5		64		4.5		0	0	1	3	6	11	10	0	0
Lasbela	0000	292	*			83.9	79.1	76.4	33.7		83		2.2		0	0	0	0	0	0	0	0	31
	0300		987.1	—1.7	997.0	86.1	80.9	78.9	33.5	+0.6	80	—1	2.0	—3.4	0	0	2	0	1	0	0	0	28
	1200		984.1		993.7	96.2	84.6	80.0	23.9		61		2.3		0	0	3	9	3	14	1	0	1
FEDERAL CAPITAL AREA																							
Karachi (Manora)	0000	13	995.3		995.7	82.2	78.9	77.4	32.1		86		6.3		1	3	2	0	1	6	10	1	7
	0300		996.5	—2.0	996.9	83.6	79.5	77.3	35.5	+2.7	83	—3	6.3	+0.2	1	1	5	1	1	6	10	2	4
	1200		994.7		995.2	86.2	81.7	79.6	34.7		82		6.3		1	0	2	3	1	7	12	1	4
Karachi (Mauripur)	0000	52	994.1		995.9	82.3	79.2	77.7	32.7		87		5.4		2	1	2	1	0	7	12	4	2
	0300		995.1		996.9	83.6	79.8	78.0	33.0		84		6.1		2	2	2	0	0	5	11	8	1
	1200		993.5		995.3	86.5	81.1	79.0	33.8		78		6.4		1	1	2	1	2	15	6	2	1
Karachi (City)	0300	20	995.8		996.5	83.6	79.8	78.3	33.0		84		5.3		2	1	3	0	3	13	4	4	1
	1200		994.3		994.0	85.2	80.3	79.0	33.9		81		5.2		1	0	3	0	4	13	2	6	2
Karachi (P.A.F.)	0000	38	995.0		996.3	82.3	78.9	78.0	32.2		85		6.0		2	1	3	1	0	16	5	1	2
	0300		995.9		997.2	84.0	80.3	78.6	33.7		84		6.0		0	3	2	1	0	9	8	6	2
	1200		994.1		995.4	86.4	81.4	79.3	34.4		80		5.9		1	1	2	1	1	17	3	3	2
Karachi (Airport)	0000	73	993.5		996.0	82.0	79.6	78.6	33.5		89		5.4		2	3	1	0	0	6	9	3	7
	0300		994.6		997.1	83.8	80.2	78.8	33.9		85		6.2		2	3	1	0	0	5	11	3	6
	1200		992.8		995.3	86.8	81.3	78.9	34.0		78		6.5		0	3	0	2	1	15	5	4	1
HYDERABAD																							
Badin	0000	31	995.9		997.0	80.9	78.6	77.6	32.4		90		*		0	1	0	0	0	25	1	3	1
	0300		997.1	0.0	998.2	82.4	80.0	79.0	33.9	+2.5	89	+10	*		0	1	1	0	0	26	0	1	2
	1200		995.1		996.2	87.9	81.5	78.9	32.9		75		*		3	0	0	0	6	20	0	0	2
Nagarparkar	0000	178	*			79.5	69.2	62.6	19.8		57		2.1		0	0	0	0	0	7	3	0	21
	0300		991.3		997.4	83.7	71.8	65.1	21.2		53		4.4		0	0	0	0	0	12	3	0	16
	1200		*		*	89.7	73.6	64.3	21.0		44		3.5		0	0	0	0	0	13	2	0	16

(*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY, 1959.

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 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.	F.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Umarkot	0000	55	993.7		995.6	80.3	78.5	77.7	32.5		92		2.2		1	2	0	2	9	13	0	0	4
	0300		994.5		996.4	81.8	79.1	78.0	32.8		88		5.4		1	2	2	2	10	11	0	0	3
	1200		991.9		993.8	92.6	81.5	76.5	31.7		61		5.9		1	0	1	2	13	14	0	0	0
Chhor	0000	19	995.2		995.9	80.6	78.1	77.0	31.7		89		4.6		1	0	1	0	2	18	0	0	9
	0300		996.3		997.0	83.1	79.4	77.9	32.5		84		5.6		2	0	1	2	2	18	0	0	6
	1200		993.8		994.4	91.7	80.6	75.7	29.8		60		5.3		1	1	3	4	3	17	0	1	1
Hyderabad	0000	98	992.3		995.7	82.0	79.0	77.6	32.5		87		4.7		1	1	0	1	5	11	0	0	12
	0300		993.4	—0.7	996.8	83.8	79.5	77.7	32.5	+3.7	82	+11	5.1	+1.6	0	1	0	1	4	12	0	0	13
	1200		991.0		994.3	91.7	81.3	76.7	31.8		62		5.2		1	0	0	4	6	13	0	0	7
KHAIRPUR																							
Padidan	0000	153	989.8		995.0	82.4	78.4	76.3	31.3		83		2.9		3	5	1	12	4	0	0	1	5
	0300		991.2		996.4	85.8	79.4	76.7	31.4		74		3.2		2	7	3	10	6	0	0	0	3
	1200		988.2		993.2	98.6	79.8	70.3	26.2		42		3.8		4	1	3	9	7	0	1	2	4
Nawabshah	0000	124	991.4		995.7	82.3	78.9	77.3	31.7		85		3.7		1	1	1	1	17	1	1	1	7
	0300		993.1		997.1	85.6	80.4	78.9	33.7		80		5.2		4	2	2	0	14	0	0	1	8
	1200		990.1		994.2	95.0	82.1	76.8	32.0		51		5.3		2	1	2	2	15	4	0	1	4
Sukkur	0300	221	998.8	—0.1	996.3	86.8	80.1	77.4	32.1	+0.7	73	—2	2.9	+1.2	1	1	0	2	3	5	0	0	19
	1200		986.0		993.3	98.2	83.1	76.4	31.9		51		4.0		3	4	1	2	4	3	0	2	12
Kashmore*	0000	255																					
	0300																						
	1200																						
Jacobabad	0000	183	989.3		995.5	86.0	80.1	77.8	32.5		76		2.1		6	2	3	3	11	0	1	0	5
	0300		990.5	+0.5	996.6	88.1	80.7	77.6	32.4	—0.7	71	+3	2.5	+1.0	0	8	4	9	6	0	0	0	4
	1200		987.2		993.1	100.1	82.3	74.6	29.5		44		3.4		0	4	6	6	9	3	1	0	2
JUNAGADH																							
Veraval (x)	0000	26																					
	0300																						
	1200																						
AFGHANISTAN																							
Jalalabad (x)	0300																						
	1200																						
ARABIA																							
Muscatx	0300	20																					
	1200																						
HILL STATIONS																							
KASHMIR																							
Srinagar (x)	0000																						
	0300																						
	1200																						

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY, 1959.

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	8709																					
	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	0000	10190	*		*	53.6	42.2	27.8	5.6		40		2.4		0	0	0	0	0	0	0	0	31
	0300		695.9	—	3053.3	61.5	46.1	29.0	5.8		30		2.4		0	0	0	0	0	0	0	0	31
	1200		692.9		3015.9	71.6	50.6	32.2	6.0		23		3.4		0	1	9	1	0	0	6	1	13
Aliabad (x)	0300	6850																					
	1200																						
Gilgit (Surface) (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	778.7		1418.9	61.5	59.9	58.5	17.0		92		5.6		0	2	0	11	0	0	1	14	3
	0300		780.2	—0.1	1430.9	64.6	61.3	59.1	17.3	+0.1	82	+4	5.7	+1.6	1	0	3	9	1	1	5	6	5
	1200		779.2		1413.0	68.8	64.6	62.1	19.3		81		6.5		0	4	1	5	0	3	7	10	1
PESHAWAR																							
Drosh	0000	4806	845.4		1416.3	73.9	64.6	58.5	17.0		60		2.7		0	0	1	0	0	8	0	0	22
	0300		845.9	—1.4	1421.8	79.1	67.7	60.9	18.5	+1.0	54	—2	2.7	+1.3	0	0	0	0	0	1	0	0	30
	1200		841.7		1375.5	91.0	68.1	53.3	14.1		28		3.6		0	2	0	0	0	27	1	0	1
Cherat	0000	4272	861.5		1417.1	72.1	69.5	67.8	27.7		75		3.5		7	1	0	4	15	0	0	1	3
	0300		861.5	—0.4	1418.2	73.2	70.5	68.8	23.6	+3.0	69	—3	4.0	+0.9	4	3	0	5	11	0	0	2	6
	1200		859.9		1402.9	81.5	75.5	72.3	24.4		68		3.3		2	0	0	13	14	1	0	1	0
Kakul	0000	4214	863.6		1419.6	70.0	66.3	64.2	20.6		82		4.4		5	11	5	2	2	1	0	4	1
	0300		864.2	—	1425.9	74.0	68.6	65.9	21.7	—	75	—	4.9	—	3	2	3	3	6	4	3	5	2
	1200		862.3		1409.4	80.3	71.0	67.2	22.1		62		4.7		2	1	1	7	8	8	3	0	1
Balakot	0000	3226	x		x	70.6	67.3	66.1	21.5		84		4.9		2	0	0	0	0	0	0	2	27
	0300		x	—	x	73.4	68.8	66.0	22.2	—	79	—	5.0	—	1	1	0	0	0	0	0	1	28
	1200		x		x	84.4	74.0	69.1	24.2		60		5.4		1	1	0	1	3	1	0	1	23
Landikotal	0000	3503	883.7		1403.6	74.6	69.5	66.5	22.6		77		3.5		0	11	0	2	0	1	0	0	17
	0300		884.6	—	1414.5	78.5	70.6	66.2	22.3		66	—	3.7	—	0	17	0	0	0	2	0	0	12
	1200		882.1		1395.4	86.5	72.5	64.4	22.0		51		3.2		0	13	0	13	0	3	0	1	1

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY, 1959.

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										
D. I. KHAN																							
Parachinar (R)	0000	5673																					
	0300																						
	1200																						
Miranshah	0000	3026	897.7		1392.0	75.0	65.1	58.2	1.17		51		2.4		0	5	0	0	0	0	0	0	26
	0300		899.1	...	1411.9	81.1	73.5	69.3	25.2	+2.1	69	+10	2.6	+0.4	0	5	0	2	0	1	0	0	23
	1200		897.3		1401.3	88.6	73.1	67.1	21.5		47		3.5		0	24	0	0	0	2	0	0	5
Wana	0300	4503	854.3	...	1415.9	76.4	68.1	62.8	20.0	+0.4	64	+2	2.1	+0.6	0	1	1	2	2	5	0	0	20
	1200		852.5		1398.9	83.9	69.6	61.6	18.8		47		4.8		1	3	11	9	2	1	3	0	1
QUETTA																							
Fortsandeman	0300	4614	851.9	+0.8	1424.1	77.9	70.0	66.1	21.8	+2.5	66	+5	2.9	+1.5	4	5	2	0	0	3	1	0	16
	1200		849.7		1401.8	88.0	70.9	61.6	18.9		43		5.4		5	4	3	4	6	3	2	2	2
Hindubagh	0000	5909	810.3		1386.7	68.5	59.2	53.5	13.8		57		*		0	3	1	0	0	1	0	6	20
	0300		810.5		1383.7	74.1	64.9	59.0	17.6		60		*		0	1	4	3	0	5	2	1	15
	1200		809.0		1357.0	88.1	70.8	62.0	18.2		42		*		0	4	6	4	2	4	5	6	0
Loralai	0000	4699	847.0		1401.0	70.1	67.3	66.3	21.7		86		2.7		0	0	0	0	0	0	6	1	24
	0300		847.7		1407.0	73.3	69.2	66.8	22.7		81		2.9		0	2	4	0	0	0	1	2	22
	1200		845.6		1385.0	88.1	76.0	71.5	25.7		57		4.2		0	1	1	18	2	4	1	1	3
Harnai	0300	2861											2.8		0	0	0	0	0	0	31	0	0
	1200												5.4		0	0	30	0	0	0	1	0	0
Quetta Samungli	0000	5213	831.9		1400.6	68.2	63.4	60.6	18.2		77		2.7		0	1	5	21	1	0	0	0	3
	0300		832.6		1405.5	75.2	68.6	65.4	21.6		72		2.5		0	0	5	17	0	1	0	1	7
	1200		830.1		1373.3	89.5	72.0	63.1	20.5		43		3.8		1	1	4	3	5	6	4	5	2

(R) Register not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY, 1959.

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	0300	5490	*			75.0	67.0	62.9	19.7	+1.6	66	+5	*		1	1	0	3	11	6	0	1	8
	1200		*			86.9	70.2	61.4	19.2		44		*		0	0	0	1	5	5	3	5	12
Chaman	0000	4311	858.5		1400.8	79.4	62.0	47.8	11.9		35		3.5		0	3	15	7	4	0	1	0	1
	0300		859.4	—0.3	1413.1	83.2	65.4	52.4	14.1	+1.2	36	+3	0.7	0.0	1	2	2	11	10	1	0	0	4
	1200		856.6		1383.9	96.1	69.1	47.5	12.0		20		1.3		2	2	2	0	3	1	16	3	2
KALAT (North)																							
Kalat (R)	0000	6616																					
	0300																						
	1200																						
Nushki	0000	3416	890.3		1449.5	85.4	66.3	52.7	14.3		35		2.2		0	1	20	2	2	1	0	0	5
	0300		890.2		1451.3	88.0	68.4	55.5	15.8		35		2.3		1	3	11	2	3	3	1	3	4
	1200		888.6		1444.8	102.2	71.4	51.5	13.7		19		2.8		5	1	7	1	1	0	11	5	0
Dalbandin	0000	2785	904.3		1388.9	81.4	61.7	44.2	10.5		29		2.0		1	3	0	5	0	7	7	5	3
	0300		905.2	—0.6	1401.7	85.3	64.0	46.2	11.6	—1.1	28	—5	2.2	+1.2	1	3	1	1	2	5	5	4	9
	1200		901.9		1388.6	105.2	69.2	42.1	9.5		12		2.3		0	3	0	4	5	10	4	5	0
KALAT (South)																							
Panjgur	0000	3177	894.0		1405.7	77.0	69.5	67.0	21.6		68		3.1		7	0	0	0	3	9	1	0	11
	0300		895.2	+0.7	1417.7	78.3	69.1	64.0	19.5	—3.5	62	—3	2.8	+1.0	2	5	0	0	1	7	0	1	15
	1200		893.0		1412.0	97.0	73.3	61.0	18.3		31		2.6		6	0	0	2	3	8	0	10	2
AFGHANISTAN																							
Kabul (x)	0300	5955																					
	1200																						
Kandahar	0300	3462	887.1		1426.0	77.4	66.7	60.3	18.0		56		0.8		0	2	4	1	0	0	1	1	22
	1200		883.5		1401.8	94.5	75.8	66.8	22.8		42		3.0		0	0	0	0	0	4	3	4	20

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JULY, 1959.

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
CHITTAGONG DIVISION																					
Rangamati	89.5		94	15	76.5		73	22	11.82		1.71	13	23		x		12				
Cox's Bazar	86.4	+1.1	93	18	76.6	+0.2	74	6,30	41.74	+6.22	9.83	11	20	—3.0	x		9				
Chittagong (Patenga)	87.1		92	4 days	77.8		75	28,30	21.63		4.88	11	16		x		8				
Chittagong	87.2	+1.2	91	5 days	77.6	+0.9	75	6 days	20.50	—3.03	5.95	11	16	—2.9	4.9	—2.1	3				
Maijdee Court	86.6	+0.8	93	16	78.2	0.0	75	6 days	30.17	+6.61	7.10	8	25	+2.0	x		1				
Comilla	88.8	—1.1	93	15,16,17	77.8	+0.7	70	30	16.05	—0.37	3.60	8	16	—2.8	x		2				
Brahmanbaria	88.9	—0.6	93	15,16	78.3	+2.5	75	25	16.43	+5.12	4.09	9	19	+2.4	4.2		4				
Srimangal	90.5	+0.2	95	2	76.7	+0.3	75	22	15.87	+1.98	2.91	21	22	+1.2	x		19	0	0	0	0
Sylhet (P.B.O.)	89.1		94	21	77.4		70	27	20.99		3.78	25	23		x		21				
DACCA DIVISION																					
Mymensingh	89.1	+1.2	94	1,16	78.2	—0.1	76	6 days	7.31	—8.71	0.90	22	12	—7.2	2.0	—2.3	3				
Narayanganj	88.6	+0.4	93	15,16	79.4	+0.5	76	5,25	12.66	—0.31	2.78	10	20	+2.3	5.3	+0.9					
Dacca (Tejgaon)	87.6		92	16	78.7		76	5,24	11.77		2.14	8	19		6.7		11				
Faridpur	87.2	—0.6	93	15	77.2	—1.3	74	29	14.26	+1.52	3.09	8	21	+3.2	2.0	—3.3	1				
Barisal	86.7	—0.6	93	16	79.2	+0.8	66	12	27.51	+11.19	3.23	11	23	+1.9	x		4				
RAJSHAHI DIVISION																					
Khulna	86.5	—1.4	92	8,16	78.9	+0.3	75	26,29	18.23	+3.79	4.01	9	17	—4.1	3.0	—0.7					
Satkhira	88.4	—0.1	94	16	78.8	+0.5	75	9,10,29	21.76	+8.26	3.76	29	19	+0.6	0.1	—2.3					
Jessore	88.0	—0.1	94	16	78.9	+0.9	75	29	8.23	—3.99	1.81	11	18	+0.3	3.7	+1.1	0	0	0	0	0
Pabna	88.3	—1.4	96	17	78.5	+2.1	75	12,13	8.39	—2.50	1.60	13	15	—1.6	x		4				
Serajganj	87.8		95	16	79.2		76	25,26	12.38	+0.60	3.32	10	20	+3.9	3.3		2				
Rajshahi									11.70	+0.57	2.40	9	12	—3.3							
Bogra (P.B.O.)	88.6	—0.6	94	16	79.7	+1.2	73	29	5.86	—6.97	1.13	8	15	—1.8	2.8	+0.8	4				
Dinajpur	90.0	+0.8	96	16,18	79.5	+0.6	76	7,26	9.07	—6.40	2.42	9	16	—0.7	2.2	—0.3	3				
Rangpur	89.4		95	16	79.3		76	9,26	9.20	—6.81	1.47	3	17	+2.0	2.9		2		2		

(x) Data not available.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JULY, 1959.

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 Figures 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.)	96.4	—3.2	105	2	80.4	+0.3	74	26,27	8.13	+2.68	2.17	23	10	+4.1	2.6	+0.4	14	0	0	0	0
,, (Cantt.)	95.3	—	104	2,28	79.6	—	72	28	9.86	—	1.85	4	11	—	5.5	—	16	0	0	0	1
,, (Walton)	96.2	—	104	2	80.0	—	74	26	7.92	—	1.19	23	12	—	5.6	—	14	0	0	0	1
Sialkot	(a) 93.0	—4.4	102	18	76.8	—2.8	72	3,22	29.75	+21.40	7.15	5	14	+5.0	2.7	+0.8	1	0	0	0	0
RAWALPINDI																					
Jhelum	94.1	—	105	1,2	77.1	—	71	5,20	19.18	—	3.10	5	13	—	1.8	—	15	0	0	0	4
Chakiala	91.6	—	101	1,2	75.3	—	69	2,4,5	13.24	—	5.52	4	10	—	4.1	—	17	0	0	0	1
Rawalpindi	92.5	—5.3	102	1,2	75.6	—1.5	69	4,5,26	14.59	+6.52	6.64	4	9	+0.2	2.7	+1.0	10	0	0	0	1
Khushab	96.6	—5.6	107	2	79.1	—3.3	73	4,21,22	10.92	+7.02	6.00	4	5	+0.7	4.7	—0.6	0	0	0	0	0
Sargodha (x)																					
MULTAN																					
Lyallpur	97.5	—4.0	108	11	81.7	—1.0	75	22	6.33	+3.47	2.24	21	8	+4.2	3.2	+0.4	12	0	0	0	2
Montgomery	99.3	—3.6	106	12,13,17	82.3	—1.4	76	6,27	4.02	+1.60	2.34	5	5	+1.7	2.3	—2.5	1	0	0	0	0
Multan (P.B.O.)	99.8	—	108	2	83.5	—	75	3	2.80	—	1.19	4	4	—	5.8	—	6	0	0	0	1
,, (Surface)	103.3	+0.9	108	2	84.5	—1.0	77	3,4	2.19	+0.18	1.15	4	3	+0.7	4.2	+2.0	5	0	0	0	1
BAHAWALPUR																					
Leiah	99.8		112	1,2	79.9		70	4	16.74		8.85	3	5	—	0.7	—	0	1	0	0	0
Khanpur (Surface)	103.6	—1.8	113	2	83.8	+0.7	76	3	x	—	—	—	—	—	5.5	—1.7	3	0	[illegible]	0	1
,, (P.B.O.)	102.1	—	110	1	83.2	—	77	3	2.02	—	1.32	4	3	—	7.1	—	5	0	0	1	2
Bahawalpur	102.2	—1.1	108	9,12,13	83.9	+0.2	77	3	0.67	—1.77	0.50	30	2	—1.2	4.1	—0.4	0	0	0	0	0
Fort Abbas	102.4	—	109	12	(a) 83.1	—	75	27	6.08	—	2.85	22	4	—	(a) 6.4	—	0	[illegible]	0	0	0
PESHAWAR																					
Chakdara	92.6	—	101	1	73.0	—	66	12	1.83	—	1.05	3	3	—	3.9	—	3	0	0	[illegible]	0
Peshawar	96.9	—5.6	106	19	78.9	—1.3	72	5	1.31	+0.05	0.85	5	2	0.0	2.6	+0.6	7	0	0	0	1
Risalpur	98.6	—	111	18	78.2	—	70	2,6	4.79	—	1.93	26	6	—	3.5	—	13	0	0	0	2
Haripur	95.3	—	105	1	73.5	—	49	4	11.83	—	6.88	4	7	—	4.6	—	3	0	0	0	0
Campbellpur (R)																					
D. I. KHAN																					
Kohat	95.9	—	105	1,19	79.5	—	62	24	3.11	—	0.86	23	9	—	2.8	—	14	0	0	0	0
Bannu	96.2	—6.9	104	2,19	79.7	—2.8	71	7	8.28	+6.07	2.12	3	7	+3.8	2.5	—	10	0	0	0	0
D. I. Khan	97.7	—5.6	107	13	79.2	—3.5	74	3,4,5	10.82	+8.53	3.86	3	10	+7.2	1.2	—0.6	0	0	0	0	0

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JULY, 1959.

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	104.7	—3.1	115	1	77.0	—10.2	67	22	5.48	+4.08	1.90	22	7	+4.4	3.0	—2.2	0	0	0	0	0
KALAT (NORTH)																					
Nokkundi	108.2	—1.2	116	2	83.6	0.0	78	6,16	0.00	0.00	0.00		0	0.0	x		0	0	0	0	0
KALAT (SOUTH)																					
Turbat	108.5		117	21	x		x		1.70		0.55	26	4		x		3	0	0	0	0
Jiwani	92.1		99	1	82.6		77	26	0.12		0.12	26	1		8.1		2	0	0	0	0
Pasni	93.7	+2.5	101	2	82.3	+3.4	80	12	0.00	—0.47	Tr	2,30	0	—0.6	8.7	+2.9	1	0	0	0	0
Ormara	94.5	+4.3	104	1	82.5	+1.3	77	16	0.66	+0.01	0.35	16	2	+0.7	9.4	+0.8	2	0	0	0	0
Lasbela	104.5	+3.7	114	3	82.1	+1.4	75	4	1.94	—0.69	1.25	22	5	+1.5	x		2	0	0	0	0
FEDERAL CAPITAL AREA																					
Karachi (Manora)	89.6	+1.1	99	1	80.6	—0.5	75	4,31	6.45	+3.25	2.89	3	8	+5.5	x		0	0	0	0	0
Karachi (Mauripur)	90.7		99	7	80.7		77	4 days	12.59		6.13	4	9		8.9		8	0	0	0	0
Karachi (City)	89.6		95	2	79.9		75	4	8.77		5.54	3	8		6.1		0	0	0	0	0
Karachi (P.A.F.)	91.2		100	6	80.6		77	4,16	13.69		6.72	4	11		9.0		5	0	0	0	0
Karachi (Airport)	92.0		101	1,7	81.0		76	16	9.25		3.51	4	8		8.0		3	0	0	0	0
HYDERABAD																					
Badin	93.5	—1.4	106	1	79.5	—1.7	76	4,5,16	8.78	+4.81	1.95	25	13	+9.2	*		0	0	0	0	0
Nagarparkar	93.2		104	1	76.0		68	29	12.11		2.65	14	17		1.2		0	0	0	0	0
Umarkot	95.9		104	14	78.3		71	4	10.36		2.75	29	12		6.4		2	0	0	0	1
Chhor	96.2		109	1	79.9		73	27	7.68		2.78	29	10		5.9		11	0	0	0	0
Hyderabad	97.3	—2.0	106	14	81.1	—0.3	76	4,5	6.40	+3.42	1.68	3	8	+5.1	4.9	—4.4	4	0	0	0	0
KHAIRPUR																					
Padidan	101.3		112	10	81.9		78	4	4.76		3.33	4	7		7.0		4	0	0	0	0
Nawabshah	99.2		112	9	82.0		76	30	3.50		0.89	3	6		6.5		4	0	0	0	1
Sukkur	101.6	—2.7	108	4 days	82.6	—0.4	77	3	1.04	—0.40	—0.61	4	3	+1.3	2.5	—1.9	0	0	0	0	2
Kashmore	*				*				0.09		0.09	4	0		*		0	0	0	0	0
Jacobabad	102.6	—5.4	112	1,2	84.9	—0.1	77	3	3.68	+2.73	2.15	3	4	+2.5	7.6	+1.1	2	0	0	0	0
JUNAGADH																					
Veraval (x)																					
AFGHANISTAN																					
Jalalabad (x)																					
ARABIA																					
Muscat (x)																					
HILL STATIONS																					
KASHMIR																					
Srinagar (x)																					
Gulmarg (x)																					
Gurez (x)																					
Sonemarg (x)																					
Dras (x)																					
Kargil (x)																					
Leh (x)																					
Skardu (x)																					

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JULY, 1959.

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—(*continued*)																					
Misgar	74.6	—	85	2	49.8	—	33	6	2.27	—	2.02	5	2	—	3.9	—	0	0	0	0	0
Aliabad (x)																					
Gilgit (Surface) (x)																					
RAWALPINDI																					
Murree	72.7	—3.5	81	12	59.4	+0.5	52	5	21.96	+9.56	5.16	4	16	+2.7	4.8	+1.1	9	0	14	0	0
PESHAWAR																					
Drosh	96.0	—0.7	103	17	72.4	—1.1	59	5	1.05	+0.45	0.46	5	3	+1.5	4.8	+0.4	10	0	0	0	0
Cherat	84.6	—5.1	95	1,11	69.5	—2.2	62	5	5.13	+1.49	1.86	16	6	+1.2	1.9	—3.1	5	0	6	0	0
Kakul	83.7	—	89	5 days	68.5	—	62	4	18.25	—	6.44	4	12	—	(x)	x	15	0	0	0	0
Balakot	86.9	—	94	2	68.8	—	60	6	16.16	—	3.73	4	13	—	2.2	—	13	0	0	0	0
Landikotal	89.9	—	97	2,11,19	x	—	x	—	2.43	—	1.08	5	5	—	2.1	—	5	0	0	0	0
D. I. KHAN																					
Parachinar (R)																					
Miranshah	92.0	—4.6	99	2,19	74.8	—4.3	65	5	3.22	+1.65	1.00	24	8	+4.7	5.0	—0.8	0	0	0	0	0
Wana	89.6	—2.2	97	10	70.2	—1.1	64	21	4.17	+2.44	3.17	21	4	0	3.9	—	10	0	0	0	0
QUETTA																					
Fortsandeman	94.5	—4.8	104	19	73.4	—1.7	67	5	2.83	+0.69	0.54	4	10	+6.2	3.3	+0.9	0	0	0	0	0
Hindubagh	90.8		99	1,2					1.57		0.68	15	4		4.8		0	0	0	0	0
Loralai	89.7		95	11	65.5		57	9	6.32	+4.78	1.97	3	9	+6.1	3.0		0	0	0	0	0
Harnai									3.98	+0.88	0.75	25	10	+5.0	(x)		0	0	0	0	0
Quetta	93.3		98	20,28	65.3		54	24	1.94		0.85	2	4		5.2		10	0	0	0	0
Quetta	91.4		95	19,27	66.3		58	8	2.54		1.51	16	3		4.9	+2.5	0	0	0	0	0
Chaman	100.1	—1.0	105	1	74.2	—2.1	67	5,9	0.15	+0.08	0.13	2	1	+0.8	(x)		0	0	0	0	0
KALAT (NORTH)																					
Kalat (R)																					
Nushki	106.7		112	15	81.6		75	6	0.42		0.30	3	2				1	0	0	0	2
Dalbandin	107.0	—1.7	112	4	78.7	+2.5	69	7,8	0.00	—0.12	Tr	2,28	0	—0.4	4.5	—0.2	6	0	0	0	0
KALAT (SOUTH)																					
Panjgur	99.1	—4.2	106	13	74.3	—2.0	66	4 days	0.98	+0.19	0.75	29	2	+0.7	(x)		0	0	0	0	0
AFGHANISTAN																					
Kabul (x)																					
Kandahar	97.8	—	102	1	70.7	—	62	9	0.00	—	0	—	0	—	1.1	—	1	0	0	0	2

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

REGD. No. S - 1452

PAKISTAN WEATHER REVIEW, 1959

MONTHLY WEATHER REPORT

August

(PUBLISHED BY THE AUTHORITY OF GOVERNMENT OF PAKISTAN)

Chief Features:

1. Pronounced monsoon activity in East Pakistan in the first fortnight and the earlier part of second fortnight posing flood threat in East Pakistan.

2. Persistence of last month's floods in West Pakistan as a result of continued wet spell in the northern parts till the 5th of the month.

3. Frequent wet spells in the northern parts of West Pakistan during the second fortnight of the month.

West Pakistan

In association with the passage of three westerly low pressure waves across the northern parts of the region local to fairly widespread thunder-rain activity was experienced in Peshawar, Rawalpindi and Lahore divisions and mainly scattered elsewhere over West Pakistan during the first five days of the month. As a result of continued wet spell in the aforementioned divisions and the neighbouring Indian region, the floods which had started ravaging West Pakistan during July remained practically unabated till about the second week of August and alarming reports about flood situation continued to appear in the newspapers. However, during the rest of the first fortnight mainly scattered to local thunderstorms or showers occurred over the region although three low pressure waves from the West and a short lived low over Rajasthan affected the weather over West Pakistan. This decline in the rainfall activity tended gradually to ease the flood situation.

Six westerly low pressure waves which moved across the northern parts and two low pressure areas which appeared over Hyderabad division, where they filled up, caused frequent pronounced wet spells over the northern divisions between the 14th and the 26th and mainly scattered rain or thundershowers in Quetta, Kalat, Khairpur and Hyderabad divisions and the Federal Capital Area on some of the days.

Thereafter, during the rest of the month two westerly low pressure waves and a trough of low over Hyderabad division affected the weather over the region and caused thunder-rain activity practically throughout the region with pronounced wet spell in Peshawar and Quetta divisions on the 27th, in Hyderabad and Khairpur divisions and the Federal Capital Area between the 28th and the 29th and in Peshawar and Rawalpindi Divisions on the 31st.

Some of the outstanding amounts of rainfall during the month were:—Rawalpindi 2" on the 1st, Jhelum 2" on the 4th and Lahore on 5th; Lahore 5", Jhelum 4" and Peshawar and Campbellpur 2" each on the 15th; Jhelum 2" on the 22nd and 3" on the 23rd, Rawalpindi 4" and Lyallpur 2" on the 24th, Cherat 4" on the 27th, Sialkot 3" on 26th and Murree 1-1/2" on the 15th, Cherat 4" on the 27th and Harnai 1" on the 26th and Rawalpindi 2" on the 31st and Haripur 1-1/2" on 1st.

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

The mean maximum temperature was above normal in Quetta and Kalat Divisions and in the Federal Capital Area and normal over rest of the region except in Lahore division where it was below normal.

The mean minimum temperature was normal over the region outside Kalat Division and the Federal Capital Area where it was in excess.

The mean relative humidity was in excess in Rawalpindi, Bahawalpur, Peshawar and Quetta Divisions and normal elsewhere.

The mean cloud amount was in defect in Bahawalpur Division, normal in Multan, D. I. Khan and Kalat Divisions and in the Federal Capital Area and in excess elsewhere.

East Pakistan

Monsoon was fairly active and caused pronounced wet spell over East Pakistan practically throughout the first fortnight and the earlier part of the second fortnight except between the 5th and the 7th when a depression formed in the northwest Bay of Bengal on the morning of the first day and moved away inland across the Orissa coast after causing scattered to local rainfall over the region.

A decline in monsoon activity on the 19th was a prelude to the formation of another depression at the head Bay of Bengal. It formed on the 20th morning, crossed coast during night and weakened into a low over Madhya Pradesh by the following morning. It was closely followed by a low pressure area which moved across the northwest Bay of Bengal between the 22nd and the 24th. A third depression formed soon after in the northwest and adjoining west central Bay of Bengal and was centred at 26, 0300 G.M.T.within a degree of latitude 19°N and longitude 87°E. The latter moved away westnorthwestwards to Madhya Pradesh while simultaneously a low pressure wave moved across central Burma to north Bay of Bengal. As a result of the unusually disturbed conditions prevailing in the north Bay incursion of monsoon air into East Pakistan generally remained weak and mainly scattered to local rain fell over the region during the rest of the month except on some of the days when fairly widespread rain fell in Chittagong Division and on the 25th when fairly widespread rain with locally moderate to heavy falls occurred over the whole region.

Some of the noteworthy amounts of rainfall were:—Khulna 4" on the 1st; Satkhira 2" on 18th; Cox's Bazar 6" on the 2nd; Faridpur and Chittagong 5" each on the 3rd; Barisal 4" on the 4th; Sylhet 4" on the 8th; Comilla and Dinajpur 4" each on the 9th ; Cox's Bazar 5" on the 11th; Chittagong 4" on the 12th; Mymensingh 5" on the 13th; Maijdee Court 2-1/2" on the 3rd and Jessore 4" on the 14th; Bogra 7" on the 15th; Sirajganj 4" on the 18th; Bogra 5" and Sirajganj 4" on the 16th; Mymensingh and Narayanganj 5" each and Sirajganj and Bogra 4" each on the 17th; Mymensingh 7" and Sirajganj 5" on the 18th; Srimangal 4" on the 20th and Comilla 4" on the 25th.

The total rainfall during the month was in slight excess in Chittagong Division, in moderate excess in Rajshahi Division and in large excess in Dacca Division. Averaged over the whole region it was in moderate excess.

The mean maximum and the mean minimum temperatures, the mean relative humidity and the mean cloud amount were normal everywhere.

Table 1 contains the divisional means of rainfall, temperature, humidity and cloud amount for the 15 Divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

(Sd.) MUHAMMED SAMIULLAH,
for *Director,*
Meteorological Services.

TABLE I.—DIVISIONAL MEANS FOR AUGUST, 1959.

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	23.92	19.44	+4.48	+23	—0.6	+0.9	+0.5	+1	+0.5
Dacca	22.58	13.95	+8.63	+62	+1.1	—0.3	0.0	—3	0.0
Rajshahi	17.65	12.11	5.54	+46	—0.2	+0.9	+0.5	—1	+0.3
Mean	21.03	14.92	+6.11	+41	+0.1	+0.5	+0.3	—1	+0.2
WEST PAKISTAN									
Kashmir (x)									
Lahore	9.37	7.23	+2.14	+30	—2.2	+0.3	+1.9	+5	+1.4
Rawalpindi	8.17	8.83	—0.66	—7	—1.5	+0.6	+2.2	+6	+1.0
Multan	2.48	2.77	—0.29	—10	+0.2	+1.1	+1.4	+3	+0.3
Bahawalpur	x				+1.7	+1.9	+5.6	+9	—0.7
Peshawar	4.42	2.54	+1.88	+74	+0.5	+1.4	+3.3	+6	+1.1
D. I. Khan	1.31	1.93	—0.62	—32	+0.3	+1.0	+3.5	+5	+0.2
Quetta	1.24	1.13	+0.16	+14	+2.6	—1.3	+3.7	+6	+0.3
Kalat	0.40	0.31	+0.09	+29	+2.4	+4.0	+2.7	+1	+0.2
Federal Capital Area	0.09	1.56	—1.47	—94	+2.0	+2.1	+3.1	—1	+0.4
Hyderabad	0.40	2.17	—1.77	—82	—1.3	+1.6	+2.5	+5	+1.1
Khairpur	0.51	1.00	—0.49	—49	—0.5	+1.1	+1.5	+1	+0.5
Mean	1.54	1.61	—0.07	—4	+1.0	+0.9	+3.0	+4	+0.4
Jumagadh (x)									

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1959.

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	995.3		1002.4	76.3	75.7	75.2	30.1		97		6.8		2	0	0	0	21	0	1	1	6
	0300		996.4		1003.5	81.4	77.7	76.1	30.7	...	84	...	5.9		1	0	1	1	25	0	0	0	3
	1200		993.9		1001.0	81.0	78.3	77.5	31.9		88		6.7		0	0	1	0	24	0	1	0	5
Cox's Bazar (P.T.)	0300	38	1001.6	—1.3	1002.9	80.3	78.9	77.7	32.3	+0.6	91	+3	6.5	+0.3	0	0	1	11	21	5	2	0	0
	1200		999.2		1000.6	79.8	77.9	77.8	31.8		91		6.2		0	0	0	9	15	6	1	0	0
Chittagong (Patanga)	0000	20	1000.7		1001.4	77.6	76.6	76.0	30.9		95		6.7		0	0	2	20	1	1	1	0	6
	0300		1002.0		1002.7	81.6	78.4	76.9	31.8		86		6.6		0	0	3	18	5	3	0	0	2
	1200		999.4		1000.1	81.6	78.9	77.7	32.6		88		7.5		0	0	0	5	16	7	0	1	2
Chittagong (P.T.)	0300	46	1001.1	—1.6	1002.6	81.1	77.9	76.7	31.2	—0.1	86	0	6.7	+0.4	0	0	1	14	8	1	1	0	6
	1200		998.6		1000.1	80.4	78.1	77.5	31.8		90		7.1		0	0	0	11	15	4	1	0	0
Maijdee Court	0000	25	1000.2		1001.0	79.3	77.5	76.7	31.4		92		(a) 6.2		0	0	1	2	(a) 11	0	0	0	16
	0300		1001.0	—1.7	1001.8	82.1	79.5	77.2	33.2	+0.6	89	+2	(a) 6.3	—0.9	0	0	0	4	(b) 12	0	0	0	13
	1200		998.7		999.6	82.5	78.9	77.5	32.0		85		5.0		0	0	2	12	11	1	0	0	5
Comilla	0000	29	999.7		1000.7	78.4	77.4	76.7	31.7		95		6.2		0	0	0	0	1	0	0	0	30
	0300		1001.0	—1.9	1002.0	82.6	79.2	77.5	32.6	+0.5	85	+1	6.0	+0.4	0	0	0	0	5	0	0	0	26
	1200		998.0		999.0	83.9	79.9	78.2	32.2		83		6.7		0	0	0	0	9	0	0	0	22
Brahmanbaria	0000	32	999.7		10.0.8	79.7	77.8	77.0	31.4		91		6.9		0	0	1	12	8	0	0	0	10
	0300		1000.9		1002.0	83.5	79.2	77.3	32.2	+1.6	82	+2	5.2		0	1	1	19	3	1	0	0	6
	1200		997.8		998.9	84.6	80.2	78.4	33.3		81		5.7		0	0	0	8	6	3	0	0	14
Srimangal	0000	69	998.9		1001.3	77.7	76.4	75.9	30.4		94		4.9		0	0	0	0	0	0	0	0	31
	0300		999.9	—1.8	1002.3	83.5	78.7	76.6	31.3	—0.5	80	—5	5.7	+0.4	0	0	1	7	7	0	0	0	16
	1200		996.6		999.0	83.6	79.7	78.2	32.9		83		6.4		0	0	0	1	3	1	0	0	26
Sylhet (P.B.O.)	0000	115	997.2		1001.2	78.2	77.2	76.7	31.5		95		6.5		0	1	9	3	1	0	0	0	17
	0300		998.3		1002.2	83.0	79.2	77.7	32.3		84		6.5		0	2	12	6	0	0	0	0	11
	1200		994 8		998.6	84.1	80.2	78.6	33.5		83		5.9		0	1	1	2	0	0	6	0	21
Dacca Division																							
Mymensingh	0000	62	998.4		1000.5	79.9	78.4	77.7	32.5		93		6.1		0	0	0	15	0	0	1	0	15
	0300		999.8	—1.6	1001.9	82.6	79.4	78.1	32.9	+0.2	86	—1	6.4	—0.4	0	0	3	22	0	0	2	0	4
	1200		996.3		998.4	86.0	80.5	78.4	33.1		78		6.3		0	0	3	10	0	0	3	0	15
Narayanganj	0000	26	999.3		1000.2	80.8	78.9	78.1	32.9		91		7.5		0	0	7	9	11	1	1	0	2
	0300		1000.6	—1.7	1001.5	84.7	79.9	78.1	32.7	—0.1	80	—6	7.2	+0.3	0	0	7	13	7	1	1	0	2
	1200		997.6		998.5	84.9	80.0	78.1	32.8		79		7.1		0	0	2	4	18	3	2	0	2
Dacca (Tejgaon)	0000	27	998.6		999.5	79.5	78.7	78.3	33.1		97		7.2		0	0	1	12	9	2	1	0	6
	0300		1000.0		1000.9	82.9	79.8	78.5	33.4		87		7.2		0	0	3	17	7	3	1	0	0
	1200		996.9		997.8	84.0	80.0	78.2	03.2		83		6.8		0	0	0	10	16	3	1	0	1

(a) Observation for 30 days.
(b) Observation for 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1959.

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										
Dacca Division (*contd.*)																							
Faridpur	0000	46	997.6		999.1	80.1	78.7	78.2	32.9		94		6.2		0	0	3	9	11	1	1	0	6
	0300		999.2	—2.1	1001.8	83.5	79.8	77.9	33.1	—0.2	84	—2	6.4	+0.4	0	0	1	10	14	1	1	0	4
	1200		996.4		998.0	84.3	80.5	78.9	33.8		84		6.0		0	0	1	11	12	0	0	0	7
Barisal	0000	11	999.7		1000.1	79.8	78.5	77.3	32.7		94		6.0		0	0	5	6	8	0	0	0	12
	0300		1001.4	—1.1	1001.8	83.2	79.7	78.2	33.0	+0.2	85	—1	5.9	—0.3	0	0	2	5	10	0	0	0	19
	1200		998.6		999.0	83.6	79.9	78.3	33.2		84		6.3		0	0	0	4	11	0	0	0	16
Rajshahi Division																							
Khulna	0000	16	999.3		999.9	79.6	73.5	78.3	32.8		94		6.0		0	1	0	1	0	0	0	0	29
	0300		1000.7	—1.2	1001.3	83.0	79.8	78.4	33.3	+0.7	86	+2	6.8	0.0	0	1	4	6	3	1	0	0	16
	1200		998.9		998.5	83.3	79.8	78.4	33.2		85		6.3		0	0	1	9	5	1	0	0	15
Satkhira	0000	16	999.0		999.5	79.7	78.7	78.4	33.1		96		5.4		0	0	0	0	0	0	0	0	31
	0300		1000.4	—1.1	1000.9	83.7	79.9	78.2	33.1	—0.5	84	—2	6.8	+1.0	0	0	0	1	1	1	0	0	28
	1200		997.5		998.0	83.2	80.1	78.6	33.6		87		6.6		0	0	0	0	2	1	0	0	28
Jessore	0000	26	998.5		999.4	79.5	78.8	78.6	33.3		97		6.8		0	2	8	11	6	2	1	0	1
	0300		999.8	—1.8	1000.7	82.6	80.3	79.4	34.3	+0.9	90	+4	6.8	+0.5	0	0	4	14	8	5	0	0	0
	1200		997.2		998.1	84.2	81.1	79.9	34.8		87		5.1		0	0	5	3	22	1	0	0	0
Pabna	0000	48	996.6		998.2	80.2	78.9	78.5	33.1		94		7.5		0	7	2	20	1	1	0	0	0
	0300		998.2		999.9	83.3	80.1	78.6	33.7	+0.4	86	+1	6.3		0	0	5	15	1	8	1	1	0
	1200		994.7		996.4	84.5	80.5	78.9	33.7		83		5.5		1	3	2	21	2	4	1	0	0
Serajganj	0000	51	997.9		999.6	80.9	79.4	78.8	33.8		96		7.5		0	0	4	6	5	2	0	0	15
	0300		998.5		1000.2	83.6	80.7	79.6	34.5		87		7.8		0	0	4	5	8	1	1	0	11
	1200		994.9		996.6	84.5	82.0	81.2	36.2		89		6.2		0	0	1	1	13	0	1	1	14
Rajshahi													7.4										
	0300																						
Bogra (P.B.O.)	0000	65	997.1		999.3	79.8	78.7	78.3	32.2		96		6.6		0	0	10	4	1	1	2	0	14
	0300		998.2	—2.2	1000.4	83.3	79.9	78.6	33.4	+1.2	85	—2	6.8	+0.7	0	1	11	14	0	1	1	2	1
	1200		995.4		997.6	85.5	80.9	79.2	33.9		81		6.2		1	1	2	12	5	3	0	0	7
Dinajpur	0000	123	995.4		999.6	82.2	78.5	77.6	32.5		92		5.0		0	1	3	0	0	0	0	0	27
	0300		996.9	—1.3	1001.1	84.6	80.2	78.3	33.3	+0.3	81	—6	5.0	—0.9	0	0	3	0	0	0	0	0	28
	1200		993.0		997.1	87.3	81.2	78.7	33.6		76		4.9		0	1	2	0	0	0	0	0	28
Rangpur	0000					79.8	78.8	78.5	33.2		96		6.0		2	2	17	1	0	1	1	0	7
	0300					83.5	80.0	78.4	33.4		85		5.3		0	4	11	11	2	0	3	0	0
	1200					85.9	81.0	79.1	34.0		80		5.1		0	2	4	18	3	1	3	0	0

(a) Observation for 30 days. (b) Observation for 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1959.

Division and Station	Hour 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	974.1		997.9	80.7	78.5	77.6	32.3		90		4.2		0	1	1	4	0	2	0	2	21
	0300		975.3	—0.8	999.0	83.5	79.2	77.5	32.2	+2.4	82	+9	4.4	—1.3	0	1	0	8	2	3	1	0	16
	1200		972.7		996.1	91.2	81.8	78.0	32.8		65		4.7		1	3	0	5	1	1	0	1	19
,, (Cantt.)	0000	703	973.4		997.4	81.2	79.3	78.5	33.3		91		4.3		1	1	7	7	4	2	0	2	7
	0300		974.8	—	998.7	83.5	79.8	78.0	33.1	—	84	—	4.4	—	2	4	2	10	7	3	3	0	0
	1200		972.2		995.8	90.9	82.5	79.1	34.2		68		4.5		1	4	3	8	3	1	5	4	2
,, (Walton)	0000	699	973.8		997.5	81.1	78.8	77.7	32.6		90		4.3		0	0	4	10	2	0	0	2	13
	0300		975.0	—	998.6	84.0	79.6	77.8	32.6		81	—	4.0	—	1	0	4	14	1	4	1	1	5
	1200		972.3		995.5	91.7	82.8	79.5	34.3	—	67		4.1		3	3	2	5	5	0	3	3	7
Sialkot	0000	830	(b) 969.2		(b) 997.1	(a) 80.5	(a) 77.7	(a) 76.6	31.2		88		(a) 3.9		0	(a) 4	0	1	0	0	0	0	25
	0300		971.0	—1.3	998.9	82.3	78.9	77.3	32.2	+1.3	85	+1	4.9	+1.5	0	5	0	3	0	0	0	0	23
	1200		968.4		995.9	89.9	82.0	79.2	33.7		70		4.1		0	4	0	5	0	1	0	0	21
RAWALPINDI																							
Jhelum	0000	765	971.7		997.6	80.9	78.5	77.5	32.2		89		5.0		0	2	2	3	0	2	0	3	19
	0300		972.9	—	998.7	82.9	78.6	77.2	31.5	—	82	—	4.9	—	0	4	3	9	0	1	0	3	11
	1200		970.2		995.6	91.3	81.7	77.7	32.6		65		4.4		1	0	0	11	2	6	0	0	11
Chaklala	0000	1667	942.8		998.5	78.1	76.3	75.5	30.3		92		4.1		2	7	10	3	0	1	0	1	7
	0300		943.7	—	999.2	80.6	77.1	75.8	30.4	—	85	—	4.4	—	2	6	9	8	1	0	0	0	5
	1200		941.5		995.9	90.3	79.8	76.0	30.5		63		3.3		1	2	1	8	5	10	2	0	2
Rawalpindi	0000	1676	942.5		998.5	78.7	76.3	75.5	30.0		89		4.2		4	1	3	2	1	0	0	2	18
	0300		943.1	—1.3	998.7	81.8	77.4	76.1	30.3	+2.5	81	+7	4.4	+1.0	5	3	3	1	1	0	4	0	14
	1200		940.8		995.3	91.0	80.7	76.7	31.6		63		3.4		3	2	2	5	6	3	2	0	8
Khushab	0000	616	976.6		997.6	83.4	79.8	78.0	33.3		85		2.9		0	4	12	1	0	0	0	0	14
	0300		977.9	—1.2	998.7	86.1	80.7	78.0	33.1	+3.3	78	+8	2.6	+0.2	0	5	11	2	0	0	0	0	13
	1200		975.5		995.9	94.4	82.0	77.2	31.5		57		2.4		0	4	14	6	0	0	1	0	6
Sargodha	0000	614	976.6		996.9	82.1	73.2	76.6	31.2		84		3.8	—	2	10	5	3	2	0	1	0	8
	0300		977.8		998.1	84.9	79.1	76.7	31.3		76		3.8		0	3	18	3	2	4	1	0	0
	1200		975.2		995.1	94.1	81.6	76.5	31.3		57		4.1		2	1	10	7	3	3	0	0	5
MULTAN																							
Lyallpur	0000	605	976.6		997.0	83.1	79.0	77.5	31.9		83		2.3		0	3	1	5	0	2	1	0	19
	0300		977.6	—1.4	998.1	84.2	79.2	77.1	31.8	+2.7	79	+8	3.3	—0.1	0	3	1	9	2	3	1	0	12
	1200		975.3		995.4	93.2	81.3	76.7	31.1		58		4.5		0	3	1	6	5	4	0	2	10
Montgomery	0000	558	979.0		(g) 998.2	(g) 83.3	78.7	76.5	31.6		81		1.0		0	0	0	2	0	0	0	0	29
	0300		980.0	—0.6	998.8	85.7	79.2	76.3	31.1	0.0	74	—1	1.4	—0.5	0	0	0	2	0	0	1	0	28
	1200		977.3		995.6	96.2	81.8	75.7	30.2		56		2.1		0	0	0	4	0	1	1	0	25
Multan (P.B.O.)	0000	404	982.8		996.4	85.8	78.6	75.6	30.2		71		2.1		0	0	2	9	11	6	0	0	3
	0300		984.2	—	997.8	88.1	79.9	76.4	31.1	—	68	—	2.9	—	0	2	1	3	12	11	1	0	1
	1200		981.4		994.6	99.1	82.3	75.4	30.0		47		2.3		2	2	3	2	1	17	4	0	0
Multan (Surface)	0300	413	983.7	—1.3	997.6	87.8	81.0	78.2	33.1	+1.4	74	+1	3.2	+1.4	0	4	1	4	6	12	0	0	4
	1200		980.9		994.4	99.1	83.9	77.8	32.7		52		2.8		2	0	2	2	6	9	1	1	8

(x) Data not received. (a) Mean for 30 days. (b) Mean for 29 days. (g) Mean of 24 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1959.

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										
BAHAWALPUR																							
Lelah	0000	487	*		*	83.3	81.7	81.0	36.3		92		3.1		3	3	0	5	6	0	0	0	14
	0300		980.0	—	996.4	86.5	83.1	81.9	37.1	—	86	—	2.6	—	0	0	0	3	11	0	0	0	17
	1200		978.9		994.7	97.1	84.0	78.5	33.8		56		3.8		1	1	0	2	11	0	3	1	12
Khanpur (Surface)	0300	297	987.9	—1.4	997.9	86.6	81.0	78.5	33.6	+5.6	78	+9	1.5	—0.7	0	1	0	1	6	16	6	1	0
	1200		984.7		994.5	101.2	*	*	*		*		2.3		1	3	2	1	5	8	9	2	0
,, (P.B.O.)	0000	290	987.3		996.9	83.3	78.9	77.1	32.8		81		1.8		0	0	1	1	7	17	0	0	5
	0300		988.1	...	998.0	85.7	79.8	77.3	32.1	—	76	...	1.8	...	0	2	1	0	3	21	1	0	3
	1200		984.8		994.2	100.2	82.3	74.8	29.5		44		2.3		1	2	3	1	4	13	4	1	2
Bahawalpur (x)	0300	384																					
	1200																						
Fort Abbas	0000	475	(a) 980.9		(a) 996.9	(a) 83.7	(a) 78.7	(a) 76.6	31.4		80		1.8		(a) 0	1	2	3	8	11	1	1	3
	0300		a 982.1	...	(a) 998.1	(a) 87.4	(a) 80.3	(a) 76.8	32.7	...	73	...	0.4	...	(a) 0	2	2	1	6	13	5	0	1
	1200		(a) 979.3		(a) 995.0	(a) 97.4	(a) 82.5	(a) 76.6	31.1		52		1.7		(a) 1	2	3	5	5	9	2	2	1
PESHAWAR																							
Chakdara	0000	2197	923.3		996.1	76.5	74.0	72.3	27.7		89		5.2		0	1	0	0	1	1	0	0	28
	0300		924.4	...	996.9	78.7	75.1	73.6	28.3	...	85	...	5.3	...	0	0	0	0	1	0	0	0	30
	1200		921.6		992.3	90.5	80.2	75.8	30.9		64		1.9		0	0	1	1	0	17	4	0	8
Peshawar	0000	1177	957.8		997.2	81.1	77.4	75.7	30.4		84		3.9		12	4	0	0	0	0	0	10	5
	0300		959·2	—1.4	998.6	83.0	78.3	76.3	31.0	+4.1	80	+13	4.1	+0.9	12	4	0	1	0	0	1	8	5
	1200		955.8		994.2	94.4	81.3	75.7	30.5		55		2.3		7	20	1	1	1	0	0	0	1
Risalpur	0000	1009	963.3		997.1	80.3	77.3	75.6	30.6		87		5.4		0	8	13	3	0	0	0	0	7
	0300		964.5	...	998.4	83.1	78.5	76.7	31.2	...	81	...	5.0	...	1	7	10	4	0	4	3	0	2
	1200		961.2		994.2	95.5	82.0	76.3	31.2		54		3.0		0	11	11	6	0	0	0	3	0
Haripur	0300	1757	939.7	...	997.7	83.7	77.5	74.7	29.7	...	75	...	4.3	...	1	14	1	1	0	12	1	1	0
	1200		*		*	*	*	*	*		*		3.0		0	2	2	1	0	25	0	1	0
Campbellpur (R)	0300	1175																					
	1200																						
D. I. KHAN																							
Kohat	0000	1667	942.6		997.3	83.1	77.2	74.8	29.5		76		3.3		0	2	4	1	0	0	1	4	19
	0300		944.0	...	999.0	85.0	77.8	74.9	29.6	...	72	...	3.3	...	0	1	4	3	1	1	1	7	13
	1200		941.1		994.9	94.5	79.9	74.1	28.8		53		3.6		0	1	4	11	3	3	0	4	5
Bannu	0000	1263	953.9		995.9	83.6	78.6	76.3	31.4		79		1.2		0	3	1	1	0	2	1	0	23
	0300		955.1	...	997.0	85.9	79.4	76.3	31.6	+4.3	74	+9	2.9	+0.8	0	3	2	3	2	1	0	2	18
	1200		952.4		993.4	96.5	80.6	74.7	29.0		48		2.7		0	1	6	19	2	2	0	0	1
D. I. Khan	0000	570	976.8		995.9	82.8	79.9	78.4	33.6		88		0.8		0	1	1	0	0	0	0	0	29
	0300		978.3	—1.4	997.4	87.4	81.5	79.1	34.1	+3.1	76	+3	2.1	+0.3	0	11	1	6	1	0	0	1	11
	1200		974.9		993.6	97.9	85.0	80.9	35.3		57		1.4		0	7	0	5	3	1	0	0	15

(R) Register not received.
(*) 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 AUGUST, 1959.

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	981.8		996.7	85.8	78.5	75.0	30.3		71		1.2		0	0	0	10	5	0	1	0	15
	0300		983.0	—0.4	997.8	88.7	79.7	75.8	30.4	+3.3	66	+6	2.1	+0.7	0	0	0	11	10	1	0	0	9
	1200		979.4		993.6	104.4	82.3	72.9	27.6		37		2.5		0	0	1	5	9	13	1	0	2
KALAT (NORTH)																							
Nokkundi	0000	2229	922.0		994.1	88.3	65.7	50.0	12.3		27		0.1		9	4	5	2	0	0	1	8	2
	0300		923.4		995.3	90.0	67.1	51.6	13.3	—0.8	27	—4	0.1	—0.7	8	5	3	2	4	2	1	6	0
	1200		920.8		989.9	108.8	70.3	43.6	9.6		11		0.0		9	1	0	3	2	2	1	13	0
KALAT (SOUTH)																							
Turbat	0000	510	*			*	*	*					2.1		0	0	0	2	7	10	10	2	0
	0300		982.3		999.5	83.4	78.4	76.5	30.9		79		4.2		2	1	0	1	4	12	7	4	0
	1200		979.7		996.6	101.8	*	*					0.9		1	0	0	2	3	11	8	6	0
Jiwani	0000	185	992.7		999.1	80.4	76.4	74.6	29.2		83		6.2		0	0	2	11	7	5	1	0	5
	0300		993.6		999.9	81.6	76.8	74.6	29.3		80		6.0		1	0	3	12	7	1	0	0	7
	1200		991.4		997.6	85.2	78.3	75.0	29.9		72		5.2		0	0	0	10	18	3	0	0	0
Pasni	0000	28	997.8		998.7	81.5	78.6	77.5	32.1		87		5.1		0	0	1	2	3	6	6	2	11
	0300		998.9	+0.8	999.9	82.8	79.3	77.9	32.6	+2.8	85	—2	6.6	+1.2	0	0	2	3	3	6	6	2	9
	1200		996.7		997.6	87.7	82.6	80.5	35.8		80		3.6		0	0	0	8	11	12	0	0	0
Ormara	0000	15	998.3		998.8	81.4	79.5	79.0	33.5		91		7.0		0	0	0	0	1	6	16	0	8
	0300		999.3		999.8	83.4	80.1	78.6	33.6	+4.5	86	0	6.7	+0.5	0	0	0	1	0	0	23	0	7
	1200		996.9		997.4	88.9	80.6	77.0	31.7		68		3.5		0	0	0	0	3	12	16	0	0
Lasbela	0000	292	*		*	82.6	78.0	76.3	30.7		81		*		0	0	1	1	1	1	0	0	27
	0300		989.6	—1.8	999.6	85.2	79.7	77.1	32.1	+1.7	77	—5	*		0	0	1	3	1	1	0	0	25
	1200		987.3		996.9	96.8	82.7	76.6	31.7		54		*		0	0	3	9	1	14	1	0	3
FEDERAL CAPITAL AREA																							
Karachi (Manora)	0000	13	998.1		998.6	81.7	79.3	77.7	33.1		89		6.9		0	0	0	0	0	15	15	0	1
	0300		999.3		999.8	82.7	79.8	78.5	33.4	+3.1	87	—1	6.7	+0.4	0	0	0	0	0	15	16	0	0
	1200		997.6		998.1	85.6	81.1	79.2	34.2		82		6.0		0	0	0	0	0	16	15	0	0
Karachi (Mauripur)	0000	52	996.7		998.5	81.4	78.5	77.2	32.0		87		5.8		0	0	0	0	0	13	13	1	4
	0300		997.7		999.5	82.3	79.1	77.6	32.5		86		7.1		0	0	0	0	0	10	17	3	1
	1200		996.1		997.9	85.5	80.2	77.8	32.8		78		6.3		0	0	0	0	0	24	7	0	0
Karachi (City)	0300	20	998.8		999.5	83.1	79.6	78.3	32.9		85		*		1	0	0	0	1	14	9	6	0
	1200		997.2		997.9	84.9	81.3	79.9	34.8		85		*		1	0	0	0	1	10	12	7	0
Karachi (P.A.F.)	0000	38	997.8		999.1	81.2	78.0	76.6	31.3		86		5.0		0	0	0	0	0	25	6	0	0
	0300		998.6		999.9	82.7	79.0	77.4	32.1		84		0.0		0	0	0	0	0	19	11	1	0
	1200		996.9		998.2	85.8	79.3	77.4	31.3		74		6.6		0	0	0	0	0	30	1	0	0
Karachi (Airport)	0000	73	996.1		998.6	81.3	78.2	76.8	31.5		87		5.6		0	0	0	0	0	14	16	0	1
	0300		997.3		999.8	82.4	78.7	77.0	31.8		84		6.7		0	0	0	0	0	9	22	0	0
	1200		995.6		998.1	85.6	79.3	76.5	31.3		75		6.6		0	0	0	0	0	25	6	0	0
HYDERABAD																							
Badin	0000	31	*		*	79.6	77.1	76.3	30.7		89		*		0	0	0	0	0	31	0	0	0
	0300		*		*	81.4	77.8	76.8	30.9	+1.8	85	+5	*		0	0	0	0	0	31	0	0	0
	1200		*		*	88.8	80.1	76.4	31.2		67		*		0	0	0	0	0	31	0	0	0
Nagarparkar	0000	178	*		*	*	*	*					6.3		0	0	0	0	0	5	0	0	26
	0300		*		*	84.8	*	*					6.8		0	0	0	0	0	7	2	0	22
	1200		*		*	91.5	*	*					5.8		4	0	0	0	0	11	4	0	12

(*) Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1959.

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	79.5	77.1	76.0	30.7		89		1.5		0	0	0	0	15	15	0	0	1
	0300		996.9		998.8	80.8	77.6	76.3	30.9		86		6.4		0	0	0	0	18	15	0	0	0
	1200		994.7		996.5	89.7	80.3	76.2	31.0		65		6.3		0	0	0	1	13	17	0	0	0
Chhor	0000	19	997.5		998.2	80.0	77.2	76.0	30·6		88		5.4		0	0	0	0	5	23	1	0	0
	0300		998.7		999.4	82.1	78.1	76.3	30.9		83		5.7		0	0	0	0	4	26	0	0	0
	1200		996.4		997·0	89.6	80.4	76.4	30.6		66		5.6		0	0	0	0	4	27	0	0	0
Hyderabad	0000	98	994.5		997.9	81.5	77.3	75.5	29.6		82		5.0		0	0	0	0	1	26	0	0	0
	0300		995.4	—1.2	998.8	83.0	77.9	75.6	30.5	+3.2	79	+5	4.6	+1.1	0	0	0	0	0	29	0	0	0
	1200		994.1		997.3	90.7	79.7	74.8	29.2		60		4.6		0	0	0	0	2	26	0	0	0
KHAIRPUR																							
Padidan	0000	153	990.8		996.1	82.0	77.3	75.3	29.9		80		1.6		0	0	0	24	2	0	1	1	3
	0300		992.2		997.4	85.1	78.6	75.7	30.4		73		2.2		0	1	1	20	5	1	1	0	2
	1200		989.3		994.4	100.6	81.7	73.1	27.8		42		1.9		3	2	0	14	6	2	0	1	3
Nawabshah	0000	124	992.5		996.8	81.7	78.6	77.1	32.0		87		1.6		1	0	0	1	26	0	0	0	3
	0300		993.9		998.2	84.3	80.4	78.5	33.7		83		3.0		1	0	0	2	25	0	1	0	2
	1200		991.4		995.6	96.9	84.3	79.2	34.4		58		2.8		0	0	0	1	24	4	0	0	2
Sukkur	0300	221	990.0	—0.3	997.5	84.8	79.4	76.9	31.8	+3.0	78	+4	2.2	+0.7	2	2	0	1	11	10	0	0	5
	1200		986.7		994.0	100.4	85.3	79.1	34.6		52		2.2		7	4	0	2	2	5	5	1	5
Kashmore*	0000	255																					
	0300																						
	1200																						
Jacobabad	0000	183	990.0		996.2	85.1	80.3	78.4	33.1		80		0.9		0	0	0	16	9	0	0	2	4
	0300		991.5	—1.0	997.7	86.5	80.8	78.3	33.6	0.0	77	—1	1.6	+0.2	0	0	6	14	8	0	0	2	1
	1200		991.3		988.3	100.4	83.7	77.2	32.6		48		1.6		1	0	2	13	14	1	0	0	0
JUNAGADH																							
Veraval (x)	0300	26																					
	1200																						
AFGHANISTAN																							
Jalalabad (x)	0300	1950																					
	1200																						
ARABIA																							
Muscat (x)	0300	20																					
	1200																						
HILL STATIONS: KASHMIR																							
Srinagar (x)	0000	5205																					
	0300																						
	1200																						

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1959.

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										
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	*		*	51.9	41.1	28.5	5.5		41		1.0		0	0	0	0	0	0	0	0	31
	0300		696.5	—	3061.7	61.8	46·9	32.0	6.3	—	34	—	1.6	—	0	0	1	1	0	0	1	0	28
	1200		693.4		3020.6	77.2	54.0	34.5	7.0		22		2.3		0	0	17	2	0	0	2	0	10
Aliabad (x)	0300	6850																					
	1200																						
Gilgit (Surface) (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	778.7		1416.6	62.6	51.7	60.9	18.5		95		6.3		0	3	0	7	0	0	1	19	1
	0300		780.6	—1.0	1434.5	64.7	62.8	61.7	18.8	+0.9	90	+3	6.2	+1.7	0	2	2	7	0	0	10	3	7
	1200		779.7		1418.6	69.0	66.3	64.9	21.1		87		7.2		0	3	1	3	0	0	7	11	6
PESHAWAR																							
Drosh	0000	4806	844.8		1410.1	77.7	67.0	60.8	18.3		56		2.3		0	0	0	0	0	8	0	0	23
	0300		845.7	—2.9	1419.0	81.0	68.8	62.2	19.1	+0.8	52	—10	2.2	+0.4	0	0	0	0	0	2	0	0	29
	1200		840.7		1364.3	95.2	69.5	53.4	14.2		25		1.9		1	0	0	0	0	30	0	0	0
Cherat	0000	4272	861.7		1418.8	72.6	72.1	71.9	26.7		97		4.4		9	1	0	7	11	0	0	1	2
	0300		862.0	—1.6	1423.6	73.3	72.4	72.4	26.8	+5.1	95	+15	5.4	+2.0	5	2	1	3	12	4	0	2	2
	1200		860.2		1402.9	81.6	*	*	*		*		1.9		2	0	0	12	9	5	1	2	0
Kakul	0000	4214	863.6		1419.8	71.7	68.8	67.4	22.9		85		4.9		5	11	1	3	2	1	3	5	0
	0300		864.3	—	1427.9	74.7	70.7	68.7	24.0	—	82	—	5.2	—	2	2	6	2	6	4	2	2	5
	1200		862.7		1411.5	80.4	72.7	69.1	24.3		68		4.3		0	1	0	5	12	6	1	5	1
Balakot	0000	3226	x		x	72.5	70.8	69.6	25.0		92		5.3		0	0	0	0	0	0	1	0	30
	0300		x	—	x	74.2	71.8	70.4	25.6	—	88	—	5.1		1	0	0	0	1	0	0	0	29
	1200		x		x	85.1	76.9	73.1	28.2		69		4.8		0	0	0	3	3	1	0	0	24
Landikotal	0000	3503	883.7		1404.5	75.8	71.6	69.4	24.8		70		3.0		0	18	0	1	0	0	0	0	12
	0300		884.6	—	1415.5	79.1	72.7	69.4	24.8	—	69	—	3.3	—	0	23	0	1	0	0	0	0	7
	1200		881.9		1395.1	88.1	75.2	68.6	25.5		53		2.1		0	8	0	23	0	0	0	0	0

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1959.

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										
D. I. KHAN																							
Parachinar	0000	5673	*		*	*	*	*	*		*		1.7		8	0	0	0	0	0	0	0	23
	0300		*	—	*	*	*	*	*		*	—	1.5	—1.0	0	0	0	1	0	0	0	1	29
	0000		*		*	*	*	*	*	—	*		3.2		3	0	6	17	0	1	0	0	4
Miranshah	0000	3026	897.8		1397.6	78.1	69.3	65.4	20.8		62		1.8		0	3	0	0	0	0	0	0	28
	0300		899.5	...	1418.4	82.8	75.4	72.0	27.0	+4.3	70	+9	2.8	+0.6	0	3	0	0	0	0	0	1	27
	1200		896.9		1399.6	92.0	80.0	75.2	30.1		59		3.2		0	23	0	0	0	6	0	0	2
Wana	0300	4503	854.4	...	1416.2	77.7	70.3	66.4	22.2	+2.4	68	+1	1.8	+0.1	0	0	2	1	4	4	0	0	20
	1200		852.2		1394.7	85.9	72.2	65.6	20.5		51		3.8		0	1	11	13	3	1	0	2	0
QUETTA																							
Fort Sandeman (x)	0300	4614																					
	1200																						
Hindubagh	0000	5909	810.3		1387.3	68.1	61.1	56.6	15.9		68		0.4		0	2	1	0	0	0	4	4	20
	0300		811.2		1389.7	75.7	63.8	56.7	15.9		52		0.5		0	1	3	5	0	6	3	4	9
	1200		808.5		1350.0	91.9	69.7	59.5	16.8		33		2.5		2	5	4	0	1	2	8	7	2
Loralai	0000	4699	847.3		1404.0	71.0	68.1	66.4	22.3		86		1.8		0	0	0	1	0	1	5	0	24
	0300		848.3		1413.0	73.0	68.8	66.7	22.4		80		1.2		0	0	3	0	0	0	4	1	23
	1200		846.0		1389.0	87.7	73.8	67.1	22.8		50		2.7		0	0	2	20	1	6	0	0	2
Harnai	0300	2861											5.4		0	0	0	0	0	0	31	0	0
	1200												1.7		0	0	31	0	0	0	0	0	0
Samungli	0000	5213	832.6		1406.0	70.5	67.3	65.4	21.7		85		0.9		0	0	9	13	3	0	0	0	6
	0300		833.2		1412.1	75.1	70.8	69.0	24.2		81		1.0		0	0	8	15	1	0	0	0	7
	1200		830.8		1378.6	93.2	77.6	70.5	26.7		50		2.1		2	0	1	7	3	2	7	8	1

(*) Data rejected. Data not available

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1959.

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 (Fruit Farm)	0300	5490	827.1	—0.6	1433.0	75.8	68.5	64.7	21.1	+6.2	69	+13	1.9	+0.9	0	1	0	3	17	0	0	0	10
	1200		823.0		1375.8	84.6	71.4	65.9	22.0		54		2.2		1	1	0	2	5	4	4	5	9
Chaman	0000	4311	858.5		1401.7	81.4	61.7	45.8	10.8		29		0.0		0	0	17	9	5	0	0	0	0
	0300		859.5	—2.1	1410.1	83.4	64.5	50.4	13.1	+1.6	30	—2	0.0	—0.6	2	0	7	7	12	2	0	0	1
	1200		857.4		1394.1	101.3	65.4	32.6	6.8		9		0.0		5	0	1	0	1	2	18	3	1
KALAT (NORTH)																							
Kalat	0000	6616	793.8		1428.3	64.3	59.4	56.1	15.3		75		1.5		2	1	0	4	17	0	0	0	7
	0300		794.7	—0.7	1426.9	74.0	63.8	58.8	16.6	+5.7	58	+12	1.1	—0.3	3	1	0	5	12	1	0	0	9
	1200		793.0		1395.5	85.0	65.7	53.5	14.8		35		2.2		3	3	5	1	3	4	5	6	1
Nushki	0000	3416	890.4		1452.1	86.6	71.3	62.8	19.4		46		0.7		0	0	13	2	14	0	0	0	2
	0300		890.6		1456.0	89.9	74.7	67.3	22.2		48		1.5		1	0	6	6	10	1	0	0	7
	1200		889.3		1455.2	106.2	82.7	72.4	28.3		36		1.9		0	2	3	1	9	2	6	7	1
Dalbandin	0000	2785	904.4		1391.1	82.5	64.4	51.1	13.3		36		1.2		0	1	0	5	3	5	3	8	6
	0300		905.7	—2.3	1405.7	84.6	66.4	53.7	14.7	+2.7	37	+3	1.4	+0.5	1	1	0	5	0	3	7	5	9
	1200		902.6		1396.1	106.8	72.2	50.3	12.9		16		1.6		1	1	1	4	3	12	4	4	1
KALAT (SOUTH)																							
Panjgur	0000	3177	895.5		1421.4	77.3	70.5	67.0	22.4		69		3.3		1	0	0	1	0	17	0	1	11
	0300		896.3	0.0	1430.1	78.3	70.5	66.1	22.7	+2.1	66	+4	1.3	—0.1	0	0	0	0	2	5	0	0	24
	1200		894.4		1427.0	97.4	76.6	61.0	22.1		37		2.1		3	0	0	1	2	16	0	4	5
AFGHANISTAN																							
Kabul (x)	0300	5955																					
	1200																						
Kandahar	0300	3462	886.9	...	1423.6	74.6	66.1	61.7	18.5	—	63	—	0.3	—	0	1	2	2	0	0	0	0	26
	1200		883.6		1403.3	94.3	75.8	67.2	22.9		41		0.3		11	0	0	0	1	4	2	2	21

(x) Data not available.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF AUGUST, 1959.

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	87.2		91	23,25,26	75.9		74	13,14	23.63		1.80	28	24		x		7		4		
Cox's Bazar (P. T.)	83.9	—1.4	89	20,27	76.1	0.0	73	19	33.00	+5.25	5.63	2	24	+2.1	+5.0	+1.2	2				
Chittagong (Patenga)	85.7		89	6 days	76.8		73	17	28.05		4.89	12	21				9				
Chittagong P.T.	84.9	—1.0	89	20,23,27	76.8	+0.4	74	17	32.40	+11.98	4.94	3	21	+3.9	3.9	—2.5	5				
Maijdi Court	85.6	—0.1	90	25,30	77.6	—0.6	x	x	24.75	+0.42	2.52	3	24	+1.1	x		1				
Comilla	87.7	+0.2	91	8 days	80.2	+3.3	74	25	26.18	+9.00	4.50	25	19	+1.2	x		2				
Brahmanbaria	88.3	—1.1	92	31	78.1	+1.9	75	16,18,25	9.53	—3.13	1.69	18	15	—1.8	4.0		2				
Srimangal	89.9	—0.2	93	4 days	76.6	+0.5	74	20,22	17.64	+3.34	3.97	20	24	+3.9	x		18				
Sylhet (P.B.O.)	88.4		93	20,31	77.7		75	16	22.98		3.48	8	22		x		19				
DACCA DIVISION																					
Mymensingh	88.3	+0.6	94	30	78.2	—0.1	75	13,17,25	31.50	+16.01	6.68	18	18	—0.7	2.1	+0.2	3				
Narayanganj	88.4	+0.6	92	30	79.5	+0.7	74	16	15.94	+2.68	5.29	17	17	—0.6	4.4	+0.4	1				
Dacca (Tejgaon)	87.3		92	30	78.6		74	16	16.30		3.17	17	18		5.9		6				
Faridpur	90.7	+3.6	91	20,21	77.5	—1.2	74	16	19.34	+7.21	4.60	3	20	+2.9	2.0	—3.6					
Barisal	86.6	—0.4	91	25	77.9	—0.4	71	2,30	23.54	+8.60	3.45	4	24	+3.7	x						
RAJSHAHI DIVISION																					
Khulna	87.7	—0.2	91	4 days	78.8	+0.3	76	4 days	15.79	+2.00	4.48	1	13	—5.4	2.6	—1.0					
Satkhira	88.2	—0.3	92	8,24,25	78.7	+0.3	75	17	12.13	+0.56	2.05	18	17	—0.2	0.1	—2.2					
Jessore	88.2	+0.1	92	25,30	78.7	+0.9	75	17	18.77	+7.73	3.77	14	17	+0.4	3.9	+1.5					
Pabna	87.9	—1.6	93	30	79.2	+2.9	75	16,22	19.06	+8.60	5.15	16	16	+0.2	x		11				
Sirajganj	87.2		93	30	79.4		75	22	27.75	+16.42	4.25	18	16	+0.8	3.1		4				
Rajshahi									16.97	+6.66	5.75	16	11	—3.8							
Bogra (P.B.O.)	87.9	—0.9	93	30	79.2	+0.6	75	15,22,23	28.43	+15.43	7.32	15	15	—1.4	2.4	+0.7	5				
Dinajpur	90.9	+1.9	96	30	79.4	+0.5	75	222,5	8.32	—5.39	3.60	9	12	—3.3	0.8	—1.5	4				
Rangpur	89.5		95	25	79.3		74	25	11.59	—2.16	2.75	25	13	—1.0	2.6		3				

(x) Data not available.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF AUGUST, 1959.

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.	94.4	—2.6	101	14	79.4	+0.7	72	15	11.49	+6.34	4.48	15	10	+4.3	1.6	—0.1	13	0	0	0	0
,, (Cantt.)	93.2	—	99	4 days	78.5	—	71	5	11.68	—	5.16	15	10	—	4.3	—	15	0	0	0	0
,, (Walton)	94.7	—	102	13	78.7	—	72	5,15	12.55	—	3.50	15	10	—	4.0	—	15	0	0	0	0
Sialkot	92.4	—1.8	102	14	78.9	0.0	71	23	7.25	—2.05	2.60	26	10	+1.0	(e) 2.6	+1.0	0	0	0	0	0
RAWALPINDI																					
Jhelum	94.1	—	102	14	78.6	—	73	4,31	12.53	—	3.57	15	10	—	1.5	—	15	0	0	0	0
Chaklala	92.0	—	100	13,14	76.3	—	70	22	9.58	—	1.80	31	10	—	4.2	—	18	0	0	0	0
Rawalpindi	93.3	—0.4	101	14,15	76.8	+1.3	70	22	12.80	+3.63	3.40	24	11	+1.9	2.5	+1.1	13	0	0	0	0
Khushab	97.4	—2.4	105	15	79.5	—1.6	73	9,15	1.71	—1.80	0.71	15	4	+0.3	4.5	—0.1	0	0	0	0	0
Sargodha (x)	96.1		103	14	80.5		73	5	3.34		1.71	5	6	—	5.0	—	17	0	0	0	1
MULTAN																					
Lyallpur	96.2	—1.8	104	14	81.4	+0.9	73	24	4.33	+0.75	1.77	24	5	—0.3	2.8	+0.4	8	0	0	0	2
Montgomery	99.6	—0.5	106	8	82.0	+0.3	75	16	1.86	—1.04	1.04	27	2	—1.7	2.4	—1.9	0	0	0	0	0
Multan (P.B.O.)	101.6	—	107	24	84.1	—	76	3	0.62	—	0.54	24	1	—	6.8	—	3	0	0	0	1
,, (Surface)	101.7	+2.8	106	31	84.9	+2.0	76	3	1.25	—0.57	0.80	24	2	—0.5	3.2	+1.2	3	0	0	0	1
BAHAWALPUR																					
Leiah	103.5	—	110	12	81.9	—	77	4	0.94	—	0.53	9	2	—	0.6	—	9	0	0	2	0
Khanpur (Surface)	104.0	+1.7	107	4days	83.2	+1.9	78	25	*	—	—	—	—		5.6	—0.8	6	0	0	0	2
,, (P.B.O.)	102.4	—	105	8,9,13	82.2	—	77	25	0.47	—	0.19	25	3	—	5.9	—	6	0	0	1	2
Bahawalpur (R)																					
Fort Abbas	102.3	—	109	11,30	(a) 77.3	—	65	16	0.73	—	0.45	27	3	—	(b) 5.1	—	0	0	0	0	0
PESHAWAR																					
Chakdara	92.8	—	100	12,13,14	74.3		70	14	3.63		1.30	13	7	—	3.3	—	5	0	0	0	0
Peshawar	96.4	+1.8	105	14	79.4	+0.5	72	15	3.20	+1.17	1.87	15	4	+1.5	2.8	+1.1	15	0	0	0	3
Risalpur	97.2	—	107	11,14	78.7	—	70	27	9.72	—	1.85	17	9	—	3.9	—	18	0	0	0	0
Haripur	94.6	—	100	10,13,15	76.0	—	64	22	5.95	—	1.60	1	9	—	3.9	—	7	0	0	0	0
Campbellpur (R)																					
D. I. KHAN																					
Kohat	97.9	—	107	13,14	81.3	—	72	15	1.82	—	1.26	15	2	—	2.4	—	13	0	0	0	0
Bannu	99.2	—0.8	104	13,24	82.0	+1.7	75	9	0.55	—1.34	0.35	9	2	—1.1	2.5	—	4	0	0	0	0
D. I. Khan	100.9	+0.4	105	15	81.3	+0.1	76	3	0.00	—1.90	0.00	—	0	—2.3	0.6	—0.9	1	0	0	0	0

(x) Data not available. (*) Data rejected. (a) Mean for 30 days. (R) Register not received. (b) Mean for 29 days.
(e) Mean for 26 days. (f) Mean for 25 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF AUGUST, 1959.

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	105.8	+0.9	111	22	80.4	—4.9	71	28	0.72	+0.14	0.63	17	1	—0.1	3.4	—1.6	0	0	0	0	1
KALAT (NORTH)																					
Nokkundi	111.2	+4.3	116	5	85.3	+4.2	78	10	0.00	0.00	0.00		0	0.0	x		0	0	0	0	0
KALAT (SOUTH)																					
Turbat	104.2		110	5,23	*				0.12		0.10	28	1		x		1	0	0	0	0
Jiwani	88.2		92	6	79.7		75	18	0.01		0.01	25	0		7.7		0	0	0	0	0
Pasni	90.4	+2.2	93	24,30	80.1	+3.8	76	18,19,24	0.10	—0.07	0.09	24	0	—0.3	77	+2.0	0	0	0	0	0
Ormara	92.2	+5.2	98	24	80.7	+2.2	77	18,19,24	0.18	+0.07	0.08	22	0	—0.3	7.9	—0.7	0	0	0	0	0
Lasbela	102.4	+3.2	108	22	81.5	+3.8	75	25	1.05	—0.01	0.65	25	2	0.0	x		4	0	0	0	0
FEDERAL CAPITAL AREA																					
Karachi (Manora)	87.8	+2.0	91	11	80.5	+2.0	77	15,19	0.09	—1.47	0.09	28	0	—1.6	x		0	0	0	0	0
Karachi (Mauripur)	87.2		90	23	80.6		77	28	0.94		0.60	28	2		9.3		1	0	0	0	0
Karachi (City)	87.8		89	10 days	79.8		78	16,18,25	0.18		0.18	16	1		6.9		0	0	0	0	0
Karachi (P.A.F.)	87.8		91	23	80.8		76	26	1.44		0.80	28	3		11.7		2	0	0	0	0
Karachi (Airport)	88.0		92	23	80.5		77	22	1.84		0.98	28	3		9.5		2	0	0	0	0
HYDERABAD																					
Badin	90.9	—1.3	96	22,31	*				0.26	—2.06	0.10	28,29	2	—0.3	*		0	0	0	0	0
Nagarparkar	94.5		99	11,12,13	77.2		69	5	3.45		1.75	25	2		*		0	0	0	0	0
Umarkot	92.3		96	5 days	78.2		73	17	1.81		1.22	22	3		7.5		3	0	0	0	0
Chhor	91.8		98	22	79.4		78	4 days	0.44		0.15	30	3		7.1		2	0	0	0	0
Hyderabad	94.6	—1.2	100	14	80.8	+1.6	80	12 days	0.54	—1.49	0.46	28	1	—1.2	8.0	—1.0	0	0	0	0	0
KHAIRPUR																					
Padidan	102.6		108	19	81.1		79	5 days	0.50		0.35	29	2		7.3		0	0	0	0	0
Nawabshah	100.2		104	4 days	81.3		79	20,28	1.40		1.04	28	2		7.5		3	0	0	0	0
Sukkur	102.3	+1.1	107	19	81.5	+0.7	78	28	1.02	—0.10	0.89	28	2	+1.0	3.0	—1.4	0	0	0	0	0
Kashmore	*				*				0.00		0.00		0		*		0	0	0	0	0
Jacobabad	101.7	—2.0	106	22	83.7	+1.5	81	25,27,28	0.00	—0.88	Tr.	24,25,29	0	—1.3	7.6	+1.8	2	0	0	0	1
JUNAGADH																					
Veraval																					
AFGHANISTAN																					
Jalalabad (x)																					
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. (*) Data rejected.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF AUGUST, 1959.

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 Figures 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	81.4	—	87	13	*				0.00		0.00		0		5.0	—	0	0	0	0	0
Aliabad (x)																					
Gilgit (surface) (x)																					
RAWALPINDI																					
Murree	71.5	—1.7	77	13	60.6	+3.2	58	17,22	10.01	—3.80	1.43	15	17	+2.7	4.5	+1.3	8	0	25	0	0
PESHAWAR																					
Drosh	100.4	+5.2	107	12	76.5	+3.9	70	6	0.06	—0.59	0.05	6	0	—1.9	5.6	+1.4	4	0	0	0	0
Cherat	83.6	—1.8	94	13,14	69.8	—0.1	65	15	10.00	+5.06	4.13	27	7	+0.6	0.9	—3.6	6	0	12	0	0
Kakul	83.9	—	89	12,14	70.5	—	66	22	7.62	—	1.53	15	12	—	x	—	15	0	0	0	0
Balakot	88.0	—	93	11,12	71.3	—	67	9,28	12.51	—	1.85	20	13	—	1.7	—	11	0	0	0	0
Landikota	92.0	—	101	19	(x)	—	—	—	0.00	—	0.00	—	0	—	1.9	—	3	0	0	0	0
D. I. KHAN																					
Parachina	*				*				5.20	+15.0	1.60	22	7	—0.6	2.2	+0.1	7	0	0	0	0
Miranshah	94.6	+1.1	100	13,14,19	77.3	+0.6	74	6,28	0.00	—1.21	0.00	—	0	—2.6	3.6	—1.8	0	0	0	0	0
Wana	92.1	+0.7	101	19	71.6	+1.5	66	28	0.82	—0.12	0.33	9	2	—1.2	3.3	—	16	1	0	0	0
HILL STATIONS																					
QUETTA																					
Fortsandeman (R)																					
Hindubagh	*				*				2.17		0.61	28	5		3.3		0	0	0	0	0
Loralai	90.4		102	19	(a) 66.0		61	18	1.25	+0.03	0.54	25	5	+3.1	2.6		1	0	0	0	0
Harnai									2.99	+0.33	0.98	26	5	+0.7	x		2	0	0	0	0
Samungli	96.9		101	5 days	67.4		61	27	0.19		0.13	28	1		6.4		7	1	0	0	3
Quetta (Fruit Farm)	94.1		99	13,14	66.7		61	26	2.48		0.90	27	6		4.5	+2.5	0	0	0	0	0
Chaman	102.6	+4.3	107	13	75.5	+2.2	71	12	0.00	—0.04	0.00		0	—0.1	x		0	0	0	0	0
KALAT (NORTH)																					
Kalat	90.9	+1.1	97	14	63.0	+4.8	61	6 days	1.00	+0.67	0.85	25	2	+1.1	x		2	0	0	0	0
Nushki (R)	108.5		113	5,6	82.9		74	30	0.54		0.54	26	1		x		3	0	0	0	0
Dalbandin	108.6	+2.5	115	20	79.8	+8.2	72	9,10	0.16	+0.03	0.16	27	1	+0.8	4.5	+0.2	2	0	0	0	3
KALAT (SOUTH)																					
Panjgur	99.5	—1.4	107	20	74.5	+1.3	71	4 days.	0.28	—0.06	0.10	22	1	+0.3	x		0	0	0	0	1
AFGHANISTAN																					
Kabul (x)																					
Kandahar	100.4	—	104	19	69.0	—	64	10	0.00	—	0.00	—	0	—	0.3	—	0	0	0	0	0

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

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PAKISTAN WEATHER REVIEW, 1959

MONTHLY WEATHER REPORT

September

(PUBLISHED BY THE AUTHORITY OF GOVERNMENT OF PAKISTAN)

Chief Features:

1. Formation of a cyclonic storm in the north Bay of Bengal towards the end of the month.

2. Pronounced monsoon activity in East Pakistan during the first fortnight of the month.

3. Frequent wet spells in the southeastern districts of West Pakistan till the middle of the third week causing record rainfall for the month over Federal Capital Area.

West Pakistan

In association with the passage of six westerly low pressure waves across the northern parts of the region and two easterly lows which moved across Hyderabad division, thunder-rain activity was experienced practically throughout West Pakistan on most of the days till the 12th and in Bahawalpur, Quetta, Kalat and Hyderabad divisions and the Federal Capital Area during the next two days. However, pronounced rainfall activity occurred only in Lahore and Rawalpindi divisions on the 4th, in Hyderabad division and the Federal Capital Area between the 5th and the 7th and again between the 10th and the 12th and in Multan, Rawalpindi and Lahore divisions between the 9th and the 11th.

Thereafter, the movement of a depression across Madhya Pradesh to Hyderabad division where it weakened into a trough, and the passage of two low pressure waves across the north of the region caused a spell of wet weather practically throughout the region outside Multan and Bahawalpur divisions between the 15th and the 21st with locally heavy to very heavy rainfall in Hyderabad division and the Federal Capital Area between the 16th and the 17th and in Lahore and Rawalpindi divisions on the 19th. According to newspapers reports the heavy rainfall in the Federal Capital caused dislocation of train and plane services, disrupted communications and damaged a number of houses.

During the rest of the month only scattered rain fell in some of the northern divisions due to the passage of four westerly low pressure waves except on the 24th when fairly widespread rain fell in Lahore and Rawalpindi divisions.

Some of the outstanding amounts of rainfall were:—Karachi Airport 4" and Hyderabad 3" on the 6th ; Gujrat 5" and Lyallpur 3" on the 9th; Nagarparkar 5" on the 10th and 3" on the 11th; Karachi (Monora) 3" on the 12th; Nagarparkar 7", Mithi 6" and Mardan 4" on the 16th; Karachi Airport 4" on the 17th and Sialkot 4" on 18th and Murree 3" on the 19th.

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

The mean maximum temperature was above normal in Quetta and Kalat divisions, normal in Bahawalpur, Peshawar and D. I. Khan divisions and in the Federal Capital Area and below normal elsewhere.

The mean minimum temperature was normal in the Federal Capital Area and Hyderabad division and above normal elsewhere.

The mean relative humidity was in excess over the whole region. outside Kalat division and the Federal Capital Area where it was normal, while the mean cloud amount was in excess over the whole region.

East Pakistan

The low in the north Bay of Bengal at the end of the previous month crossed Orissa coast and merged with the seasonal trough of low after causing scattered to local rainfall over the region on the 1st. In its wake monsoon became active and caused fairly widespread rain with a few heavy falls over East Pakistan till the 9th. However pronounced wet spell continued in the region till the 13th under the influence of a depression which formed on the 10th morning centred about 70 miles to the west Balasore and which subsequently moved away westwards.

Monsoon was generally weak during the rest of the month till the 27th and caused mainly scattered to local rainfall except for a short interval between the 19th and the 21st when it again became active and caused fairly widespread rain with locally heavy falls over the region.

A well marked low which developed over north Andaman Sea on the 26th concentrated into a depression the next day, moved northwestwards and further concentrated into a cyclonic storm on the last day of the month when it was centred at 0300 G.M.T. within one degree of latitude 20.5°N and longitude 88.5°E. Under its influence local to fairly widespread rain fell in Dacca and Rajshahi divisions and scattered in Chittagong division between the 28th and the 30th.

Principal rainfall amounts during the month were:—Sylhet 7" on the 5th; Barisal 6" on the 11th; Barisal 7", Maijdee Court 6" and Dacca and Narayanganj 5" each on the 12th; Sirajganj 4" on the 13th; Chittagong 6" on the 14th; Barisal 4" on the 15th; Sylhet 5" on the 19th and 4" on the 21st; Bogra 4" on the 23rd and Barisal 4" on the 28th.

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

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

The mean cloud amount was in excess over the region outside Dacca division where it was in normal.

Table I contains the divisional means of rainfall, temperature, relative humidity and the cloud amount for the 15 divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

(Sd.) MUHAMMED SAMIULLAH,
for *Director,*
Meteorological Services.

TABLE 1.—DIVISIONAL MEANS FOR SEPTEMBER, 1959.

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	13.03	12.79	+0.24	+2	—1.9	+0.3	—0.3	+3	+1.1
Dacca	20.20	10.80	+9.40	+87	—1.2	—0.9	—0.3	+2	+1.0
Rajshahi	11.81	10.16	+1.65	+16	—1.6	+0.3	—0.2	+3	+1.1
Mean	14.63	11.16	+3.47	+31	—1.6	—1	—0.3	+3	+1.1
WEST PAKISTAN									
Kashmir (x)									
Lahore	5.99	2.81	+3.18	+113	—3.5	+3.9	+5.5	+12	+1.9
Rawalpindi	7.01	3.56	+3.45	+97	—3.4	+3.8	+6.4	+21	+2.5
Multan	2.47	1.10	+1.37	+125	—2.3	+3.3	+5.3	+14	+0.9
Bahawalpur	x	..	..	..	—1.7	+3.5	+8.6	+14	—
Peshawar	3.12	1.19	+193	+162	+0.9	+5.5	+7.9	+19	+2.7
D. I. Khan	2.25	0.92	+133	+145	—0.3	+4.7	+7.3	+15	+1.4
Quetta	1.01	0.32	+0.69	+216	+3.0	+5.9	+5.8	+12	+0.8
Kalat	1.26	0.10	+1.16	+1160	+2.5	+6.6	+4.2	+3	+0.9
Federal Capital Area	8.47	0.52	+795	+1529	+1.5	+1.5	+3.0	+1	+1.1
Hyderabad	10.13	0.76	+9.37	+1233	—4.1	+0.8	+5.7	+15	+2.5
Khairpur	0.75	0.09	+0.66	+733	—2.3	+3.3	+4.3	+8	+2.3
Mean	2.82	0.61	+2.21	+362	0.0	+4.7	+5.7	+11	+1.4
Junagad (x)									

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER 1959.

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	998.5		1005.8	76.1	75.4	74.9	29.6		97		6.4		6	0	0	2	13	0	0	1	8
	0300		999.9		1007.0	81.4	77.5	75.9	30.4		83		5.2		5	0	2	0	18	0	0	0	5
	1200		997.2		1004.2	80.6	77.9	76.8	31.5		88		6.4		2	0	1	0	21	0	1	0	5
Cox's Bazar (P.T.)	0300	38	1004.9	—1.3	1006.2	80.1	77.8	76.8	31.5	—0.2	90	—6	6.4	+1.2	1	1	3	14	9	1	1	0	0
	1200		1002.3		1003.6	80.0	77.4	76.5	30.9		89		6.4		0	0	1	8	13	6	1	1	0
Chittagong (Patanga)	0000	20	1003.9		1004.6	77.5	76.2	75.5	30.0		94		6.4		0	0	4	19	0	0	0	0	7
	0300		1005.6		1006.3	81.3	77.8	76.3	30.9		85		6.7		0	5	1	18	6	0	0	0	0
	1200		1002.7		1003.4	81.4	78.3	76.9	31.7		87		6.5		0	0	0	8	14	3	1	0	4
Chittagong (P.T.)	0300	46	1004.8	—1.3	1006.3	81.1	77.8	76.7	31.8	—0.3	86	+2	6.6	+1.1	1	4	1	16	5	0	0	0	3
	1200		1001.9		1003.5	80.8	78.2	77.3	31.8		89		6.3		1	0	0	7	14	2	2	1	3
Maijdi Court	0000	25	1003.4		1004.2	78.8	77.3	76.9	31.3		93		6.5		0	0	0	1	10	0	0	0	19
	0300		1005.1	—1.3	1006.0	81.0	78.1	77.1	31.6	—1.0	87	+1	6.2	+1.5	1	0	0	3	11	0	0	0	15
	1200		1001.9		1002.7	82.1	78.6	77.3	31.8		85		5.6		0	1	0	7	15	0	0	0	7
Comilla	0000	29	1003.2		1004.2	77.3	76.5	76.0	30.8		95		5.4		0	0	0	0	3	0	0	0	27
	0300		1004.8	—0.5	1005.8	82.0	78.3	76.7	31.4	—0.8	85	+5	5.3	+0.4	0	0	0	0	8	0	0	0	22
	1200		1001.9		1002.9	82.1	79.0	77.6	32.4		87		5.6		0	0	0	0	7	0	0	0	23
Brahmanbaria	0000	32	1003.4		1004.5	79.1	77.3	76.7	31.2		92		6.9		0	0	7	5	3	0	0	0	15
	0300		1004.9		1006.0	82.1	78.9	77.6	32.3	+1.2	86	+7	5.9		0	4	2	11	6	2	0	0	5
	1200		1001.5		1002.6	83.1	80.0	33.5	17.8		87		6.0		0	1	2	6	8	0	0	0	13
Srimongal	0000	69	1002.5		1005.0	76.4	75.3	74.9	29.5		95		6.5		0	1	0	0	0	0	0	0	29
	0300		1004.0	—1.5	1006.4	81.1	77.6	75.9	30.7	—0.8	85	0	6.3	+1.4	0	0	0	3	1	0	0	0	26
	1200		1000.3		1002.6	82.2	79.1	77.9	32.5		87		6.0		0	1	0	0	1	0	0	0	28
Sylhet (P.B.O.)	0000	115	1000.7		1004.7	76.8	75.3	74.3	29.3		93		6.6		0	0	13	1	1	0	0	0	15
	0300		1002.3		1006.2	80.8	77.4	76.0	30.6		85		6.6		0	1	17	1	0	0	0	0	11
	1200		998.6		1002.6	81.7	78.1	76.5	31.3		85		5.4		0	4	5	0	0	0	5	0	16
Dacca Division																							
Mymensingh	0000	62	1002.2		1004.3	78.8	77.1	76.3	31.0		92		5.9		0	0	5	7	1	0	0	0	17
	0300		1004.1	—1.1	1006.2	82.0	78.4	76.8	31.5	—1.0	85	0	6.5	+0.5	0	0	4	17	1	0	0	0	8
	1200		1000.5		1002.6	83.5	78.9	77.1	31.6		81		6.2		0	0	3	13	0	0	3	0	11
Narayanganj	0000	26	1002.7		1003.6	79.5	77.9	77.3	31.9		93		7.5		1	1	4	11	2	2	1	1	7
	0300		1004.5	—1.5	1005.4	83.2	78.9	77.4	31.8	—0.7	82	0	7.3	+1.2	1	1	9	11	4	1	0	0	3
	1200		1001.0		1001.9	82.8	78.9	77.2	32.0		83		6.9		0	0	4	12	7	1	0	0	6
Dacca (Tejgaon)	0000	27	1002.4		1003.3	78.1	77.2	76.7	31.5		96		7.0		1	1	1	13	2	2	0	0	10
	0300		1004.0		1004.9	81.4	78.7	77.5	32.3		88		7.0		2	2	2	15	5	1	0	0	3
	1200		1000.6		1001.5	81.2	78.4	77.3	31.9		88		6.9		1	2	2	11	7	2	0	0	5

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1959.

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	1001.6		1003.2	78.7	77.8	77.4	32.2		96		6.2		1	2	2	10	8	0	0	0	7
	0300		1003.0	—1.8	1004.6	82.1	79.2	78.0	33.4	+0.1	87	+6	6.5	+1.5	2	2	1	7	12	0	1	0	5
	1200		1000.5		1002.1	82.1	78.9	77.6	32.3		86		6.3		1	2	1	7	8	1	0	0	10
Barisal	0000	11	1003.2		1003.6	79.2	78.1	77.4	32.3		95		5.2		0	0	7	5	3	0	0	0	15
	0300		1004.6	—1.7	1005.0	82.8	79.6	78.0	33.1	+0.2	86	+3	6.0	+0.7	0	1	12	10	3	0	0	0	4
	1200		1001.5		1001.9	82.3	79.7	78.7	33.4		89		6.1		0	0	8	4	3	0	0	0	15
Rajshahi Division																							
Khulna	0000	16	1002.8		1003.4	78.9	77.9	77.7	32.2		95		6.0		0	2	2	1	2	0	0	0	23
	0300		1004.4	—1.7	1004.9	82.8	79.5	78.2	32.9	+0.3	85	+4	6.6	+0.9	0	2	1	9	4	0	0	0	14
	1200		1001.2		1001.8	81.1	78.7	77.9	32.4		89		6.1		0	0	1	10	3	0	0	0	16
Satkhira	0000	16	1003.0		1003.6	79.0	78.1	77.3	32.5		95		4.5		0	1	1	0	0	0	0	0	28
	0300		1004.7	—1.1	1005.2	82.9	79.6	78.2	33.1	—0.6	86	+3	6.5	+1.5	0	2	0	1	0	0	0	0	27
	1200		1001.1		1001.7	81.5	78.9	77.7	32.5		89		6.7		0	1	0	1	0	0	0	0	28
Jessore (P.T.)	0000	26	1001.9		1002.8	78.8	78.0	77.7	32.4		96		6.8		0	2	5	7	6	1	0	1	8
	0300		1003.6	—2.0	1004.5	82.0	80.1	79.4	34.3	+1.0	91	+7	7.3	+2.2	2	4	5	7	8	3	1	0	0
	1200		1000.9		1001.8	82.4	79.9	79.0	33.7		89		6.6		4	2	4	6	14	0	0	0	0
Pabna	0000	48	1000.7		1002.4	78.8	77.9	77.7	32.3		96		7.0		1	5	4	14	0	5	0	1	0
	0300		1002.4		1004.1	82.6	79.5	78.2	33.0	—0.3	87	+6	6.5		0	5	5	11	2	5	0	2	0
	1200		998.8		1000.4	82.3	79.1	78.0	32.5		86		6.8		0	5	7	12	2	2	0	2	0
Serajganj	0000	51	1001.9		1003.6	78.7	77.5	77.1	31.7		94		6.6		0	0	8	4	2	0	0	0	16
	0300		1002.6		1004.3	83.1	79.3	77.6	32.4		84		6.7		0	0	13	0	2	0	0	0	15
	1200		998.5		1000.3	82.6	79.0	77.6	32.2		85		6.2		0	0	8	2	1	0	0	0	19
Rajshahi	0300												6.6										
Bogra (P.B.O.)	0000	65	1001.2		1003.4	78.5	77.2	76.5	31.3		94		5.9		0	1	11	6	0	0	0	0	12
	0300		1002.9	—1.6	1005.1	82.7	78.9	77.2	32.0	—0.9	84	0	6.2	+1.2	0	3	14	5	3	3	1	0	1
	1200		999.4		1001.6	82.9	78.9	77.1	31.9		83		5.9		0	0	10	7	3	2	0	2	6
Dinajpur	0000	123	999.3		1003.5	78.6	77.0	76.2	31.0		93		4.7		0	3	4	0	0	0	0	0	23
	0300		1000.5	—1.7	1004.7	82.4	78.5	76.6	31.5	—0.8	83	—2	4.8	—0.3	0	0	6	1	0	0	0	0	23
	1200		997.3		1001.5	84.8	79.8	77.7	32.5		79		(b) 4.4		0	1	5	0	0	(b) 0	0	0	23
Rangpur	0000					78.1	76.8	76.3	30.9		94		5.5		0	5	7	3	4	0	0	0	11
	0300					81.8	78.3	76.8	31.5		85		5.3		1	7	12	7	1	0	0	0	2
	1200					83.3	78.7	76.8	31.4		81		4.7		0	5	3	12	5	0	0	0	5

(b) Observation for 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1959.

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	978.3		1002.2	78.9	77.1	76.4	31.0		92		3.0		0	0	0	4	0	0	0	0	26
	0300		979.8	—1.1	1003.6	83.0	78.2	76.0	30.8	+5.6	80	+14	3.3	+1.9	0	0	4	5	0	4	0	0	17
	1200		976.9		1000.4	88.9	79.2	75.2	29.7		64		4.1		0	2	1	2	0	4	3	0	18
,, (Cantt.)	0000	703	977.5		1001.6	79.3	77.5	76.7	31.4		92		3.0		1	1	7	7	1	3	1	1	8
	0300		979.0	—	1003.1	82.7	78.3	76.2	31.1	—	81	—	3.6	—	0	5	5	10	2	4	2	1	1
	1200		976.2		999.9	88.8	79.9	76.1	32.0		66		4.2		2	4	6	2	5	6	2	3	0
,, (Walton)	0000	699	978.1		1001.9	79.4	77.4	76.4	31.2		91		2.6		1	2	4	6	2	2	0	1	12
	0300		979.6	—	1003.3	83.1	78.6	76.8	31.4	—	81	—	3.2	—	1	2	3	15	1	6	0	0	2
	1200		976.6		1000.1	89.2	80.2	76.5	31.1		66		4.1		4	1	8	2	6	2	1	4	2
Sialkot	0000	830	973.5		1001.8	78.1	76.6	75.9	30.6		93		3.0		0	3	0	1	0	0	0	0	26
	0300		975.2	—1.6	1003.4	81.3	77.7	76.0	30.8	+5.3	85	+10	3.6	+2.0	0	5	0	4	0	0	0	0	21
	1200		972.2		999.9	87.5	80.6	77.5	32.6		73		2.7		0	0	0	4	0	1	0	1	24
RAWALPINDI																							
Jhelum	0000	765	975.8		1001.9	78.6	76.6	75.7	30.4		91		3.4		1	1	0	1	0	0	0	0	27
	0300		977.4	—	1003.4	81.2	77.2	75.4	31.6	—	83	—	4.1	—	0	10	1	2	1	1	1	2	12
	1200		974.3		999.9	88.6	80.0	76.4	31.1		67		4.0		1	0	0	6	2	5	1	0	15
Chaklala	0000	1667	946.6		1002.8	75.3	74.0	73.5	28.2		94		3.8		1	0	3	3	0	1	1	0	21
	0300		947.8	—	1003.8	78.1	75.3	74.0	28.8	—	88	—	3.9	—	1	5	9	1	0	0	0	0	14
	1200		945.2		1000.2	86.5	77.5	73.9	28.5		66		3.8		2	3	0	8	3	1	3	2	8
Rawalpindi	0000	1676	946.3		1002.8	76.1	74.2	73.3	28.0		91		4.0	—	3	1	2	1	1	0	0	1	21
	0300		947.6	—1.4	1003.8	79.4	75.9	74.6	29.1	+7.3	85	+27	4.6	+3.0	4	3	3	1	0	0	3	0	16
	1200		945.1		1000.3	86.8	78.5	75.0	29.9		68		3.6		2	0	0	1	3	1	4	0	19
Khushab	0000	616	981.6		1002.7	80.4	76.9	75.5	30.1		85		1.9		0	0	9	0	0	0	0	0	21
	0300		982.3	—1.7	1003.1	84.5	79.1	76.8	31.5	+7.7	77	+13	1.8	+0.7	0	2	12	0	1	0	1	0	14
	1200		979.9		1000.1	92.9	80.2	74.6	29.5		56		2.2		0	1	16	3	1	3	1	0	5
Sargodha	0000	614	981.1		1001.7	79.7	77.6	76.9	31.5		91		2.1		1	2	6	2	3	0	0	0	16
	0300		982.5		1003.1	83.1	79.0	77.0	32.0		83	—	3.1	—	0	2	12	3	4	1	0	0	8
	1200		979.5		999.6	91.2	80.3	75.7	30.4		60		3.9		1	3	6	8	4	1	0	0	7
MULTAN																							
Lyallpur	0000	605	981.0		1001.7	79.7	77.2	75.9	30.8		89		1.0		0	3	0	2	1	0	0	0	24
	0300		982.1	—1.6	1002.7	81.2	77.5	76.0	30.6	+7.0	83	+19	2.5	+1.0	0	3	0	2	3	1	1	0	20
	1200		979.7		999.9	91.5	79.5	74.3	28.9		57		4.8		0	6	3	2	2	2	1	0	14
Montgomery	0000	558	982.6		1001.7	79.7	76.5	75.0	29.7		87		0.6		0	0	0	2	0	0	0	0	28
	0300		984.1	—1.3	1003.0	82.9	77.7	75.3	30.1	+4.2	79	+10	1.2	+0.3	0	0	0	2	0	0	0	0	28
	1200		981.5		1000.1	91.4	79.7	74.7	29.3		59		2.1		0	0	1	4	0	3	0	0	22
Multan (P.B.O.)	0000	404	987.3		1001.2	81.9	77.3	75.5	29.9		81		1.2		0	0	6	5	5	3	0	0	11
	0300		988.9	—	1002.6	84.5	78.4	75.7	30.4	—	75	—	1.6	—	0	2	3	5	11	4	1	1	3
	1200		985.9		999.4	94.2	80.0	73.7	28.5		52		3.1		3	2	5	0	3	12	1	0	4
Multan (Surface)	0300	413	988.4	—1.5	1002.4	84.1	79.5	77.5	32.3	+4.8	81	+12	2.0	+1.4	1	3	1	7	1	8	0	0	9
	1200		985.3		999.1	94.2	81.9	76.8	31.6		56		3.3		2	3	5	4	2	5	1	0	8

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1959.

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										
BAHAWALPUR																							
Leiah	0000	487	*		*	79.5	78.0	77.2	32.1		93		2.7		0	3	0	2	2	0	0	0	23
	0300		*	...	*	85.7	80.7	78.7	33.5	...	80	...	2.7	...	1	4	1	6	4	0	0	0	14
	1200		*		*	94.3	81.5	75.9	30.9		56		3.6		1	4	1	3	7	0	1	0	13
Khanpur (Surface)	0300	297	992.1	—1.8	1002.2	85.1	80.1	78.0	32.8	—8.6	79	+14	*	...	0	3	2	1	10	10	4	0	0
	1200		989.0		998.9	96.5	83.7	78.6	33.6		57		*		3	4	4	1	4	4	6	4	0
,, (P.B.O.)	0000	290	991.0		1001.0	80.3	76.9	75.5	30.0		85		1.2		0	4	0	1	4	15	0	0	6
	0300		992.5	...	1002.4	83.9	78.6	76.2	31.0	...	78	...	1.6	...	1	5	0	1	3	18	0	0	2
	1200		989.2		999.0	94.4	80.4	74.2	29.0		52		3.3		3	4	1	1	2	9	5	2	3
Bahawalpur	0300	384	989.8	—0.9	(c) 1003.3	(c) 83.5	79.0	(c) 75.5	31.9	...	81	—14	2.3	+1.9	1	2	0	(c) 1	8	5	0	0	11
	1200		986.8		999.6	95.0	83.0	77.9	33.6		59		4.7		1	2	5	1	5	3	0	1	12
Fort Abbas	0000	475	985.1		1001.4	80.2	76.1	74.2	28.9		83		1.5		0	3	3	2	7	8	0	1	6
	0300		986.5	...	1002.7	84.5	78.9	76.1	31.2	...	77	...	1.5	...	1	4	2	2	5	8	1	2	5
	1200		983.6		999.5	91.9	80.7	75.4	30.7		65		3.3		2	7	3	2	5	6	1	4	0
PESHAWAR																							
Chakdara	0000	2197	927.7		1000.4	74.8	72.9	71.2	26.8		91		4.0		0	0	0	0	0	0	0	0	30
	0300		928.2	...	1001.4	75.9	72.9	71.2	26.4	...	86	...	4.6	...	0	0	0	0	0	0	0	0	30
	1200		925.3		996.7	88.2	77.3	72.8	27.5		60		1.6		0	0	0	0	0	17	3	4	10
Peshawar	0000	1177	961.9		1001.6	78.4	76.1	75.0	29.7		90		2.9		7	2	2	0	0	0	0	5	14
	0300		963.4	—2.2	1003.0	80.6	77.0	75.4	30.1	—10.0	85	+25	4.9	+3.4	6	2	0	0	0	1	0	9	12
	1200		960.1		999.1	90.4	79.6	74.9	29.6		60		2.6		5	23	0	1	1	15	0	0	0
Risalpur	0000	1009	967.3		1001.5	79.1	76.6	75.5	30.1		89		4.2		0	4	9	3	0	0	0	1	13
	0300		969.2	...	1003.0	81.0	78.1	75.8	31.6	...	87	...	4.8	...	0	1	9	6	0	2	2	0	10
	1200		965.6		998.9	91.1	79.6	74.4	29.3		59		3.0		0	9	7	5	1	1	0	1	6
Haripur	0300	1757	943.2	...	1002.0	79.1	72.1	68.9	24.1	...	70	...	4.6	...	0	6	0	2	0	22	0	0	0
	1200		940.7		998.4	87.4	77.8	73.7	28.6		64		3.6		0	10	2	4	0	9	0	5	0
Campbellpur	0300	1175	963.3	...	1002.9	81.2	76.8	74.7	29.5	...	80	...	3.8	...	1	1	2	10	1	2	0	0	13
	1200		(b) 960.1		(b) 998.9	(b) 90.9	(b) 80.1	(b) 75.7	(b) 30.1		(b) 60		(b) 3.8		(b) 0	2	1	7	6	5	0	0	7
D. I. KHAN																							
Kohat	0000	1667	946.7		1002.5	79.5	74.9	73.0	27.7		81		3.4		2	4	3	1	1	0	0	5	14
	0300		948.3	...	1003.9	81.8	75.7	73.1	28.1	...	75	...	3.4	...	1	1	5	2	1	0	1	6	13
	1200		945.3		999.8	90.4	77.2	71.3	26.3		54		2.8		0	2	7	12	5	0	0	0	4
Bannu	0000	1263	958.3		1000.9	80.5	76.3	74.2	28.9		83		1.3		0	1	0	0	0	0	1	0	28
	0300		959.3	...	1001.7	83.2	77.4	73.8	29.5	+8.0	76	+16	3.1	+2.2	0	1	0	2	2	0	0	0	25
	1200		956.3		997.8	92.8	78.7	72.0	27.1		52		2.4		0	0	5	16	4	0	0	0	5
D. I. Khan	0000	570	981.5		1000.9	80.5	77.6	76.5	31.0		87		1.4		0	0	0	0	0	0	0	0	30
	0300		983.0	—1.7	1002.4	85.5	79.7	77.3	31.8	+6.5	76	+7	2.4	+1.6	0	8	0	5	0	0	0	0	17
	1200		979.3		998.1	96.1	83.8	79.6	33.9		57		1.4		0	2	2	2	1	0	0	0	23

(*) Data rejected. (b) Mean for 29 days. (c) Mean for 28 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1959.

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										
QUETTA																							
Sibi	0000	441	*			*	*	*					2.1		1	1	2	5	8	2	0	0	11
	0300		987.4	—1.1	1001.9	85.2	77.3	73.8	28.4	+7.9	69	+19	2.4	+1.9	0	1	1	11	3	2	0	0	12
	1200		983.5		997.8	101.9	79.8	69.3	24.6		36		3.1		1	0	1	9	13	6	0	0	0
KALAT (NORTH)																							
Nokkundi	0000	2229	925.4		999.0	80.0	58.7	38.1	8.3		23		0.2		9	7	1	0	2	2	1	8	0
	0300		927.9		1001.3	82.3	60.6	42.5	9.4	—1.0	25	—8	0.2	0.0	6	6	4	2	2	3	2	4	1
	1200		924.8		994.8	103.4	66.8	35.8	7.6		10		0.0		6	3	1	2	3	2	4	9	0
KALAT (SOUTH)																							
Turbat	0000	510	*			*	*	*					0.8		0	0	0	1	13	12	1	3	0
	0300		986.8		1004.1	82.5	78.5	76.7	31.4		83		2.5		1	0	0	3	6	8	5	5	2
	1200		983.5		1000.4	99.6	83.9	77.9	32.5		50		1.0		0	0	0	3	3	14	5	4	1
Jiwani	0000	185	996.1		1002.5	80.7	77.0	75.4	29.3		84		5.1		0	0	0	2	3	7	4	0	14
	0300		997.2		1003.6	82.1	77.7	75.7	30.4		81		6.3		1	0	1	1	5	7	2	0	13
	1200		995.0		1001.3	86.1	78.6	75.2	30.0		70		4.1		0	0	0	2	13	15	0	0	0
Pasni	0000	28	1001.0		1002.1	80.3	78.1	77.1	31.7		90		4.0		1	0	0	1	0	3	7	4	14
	0300		1002.4	—3.1	1003.3	81.8	79.1	77.0	32.8	+5.5	88	—2	4.8	+1.5	0	1	1	1	1	5	10	5	6
	1200		999.8		1000.8	86.7	82.0	79.7	35.2		81		3.2		0	0	0	1	7	20	1	0	1
Ormara	0000	15	1001.4		1001.9	80.6	78.8	78.1	32.8		92		5.6		0	0	0	0	1	0	23	1	5
	0300		1002.6		1003.1	82.8	79.3	77.8	32.6	+5.0	85	—1	5.4	+0.5	0	0	2	0	0	1	22	0	5
	1200		1000.0		1000.5	87.5	80.3	77.4	32.0		70		3.3		0	0	0	2	1	7	20	0	0
Lasbela	0000	292	*			80.8	77.2	75.3	30.3		85		*		0	0	2	1	1	0	0	0	26
	0300		994.9	—0.8	1004.8	83.1	79.3	77.8	32.7	+4.7	84	—3	*		0	0	1	0	0	2	0	0	27
	1200		990.4		999.6	93.6	81.6	76.7	31.4		58		*		0	0	0	0	1	7	0	0	22
FEDERAL CAPITAL AREA																							
Karachi (Manora)	0000	13	1001.6		1002.1	79.8	77.4	76.3	31.1		89		5.7		0	1	0	0	0	8	12	0	9
	0300		1002.9	—2.9	1003.4	81.2	78.3	77.0	31.8	+3.0	87	+1	5.3	+1.1	0	0	0	0	0	8	13	0	9
	1200		1000.7		1001.2	85.2	81.1	79.5	34.3		83		5.2		0	0	0	0	0	11	18	0	1
Karachi (Mauripur)	0000	52	999.8		1001.6	(c) 79.5	(c) 77.7	(c) 76.9	31.6		94		5.2		0	0	1	0	0	3	15	3	8
	0300		1001.2		1003.0	80.9	78.7	77.9	32.5		90		5.6		1	0	0	0	0	4	16	6	3
	1200		999.2		1001.0	84.7	80.2	78.3	33.2		81		6.4		0	1	0	0	0	17	10	2	0
Karachi (City)	0300	20	1002.2		1002.9	82.2	79.5	78.6	33.2		88		5.3		1	0	1	0	1	10	12	5	0
	1200		1000.7		1001.4	83.7	79.5	77.7	32.5		82		5.1		0	0	0	0	0	22	5	3	0
Karachi (P.A.F.) (p)	0000	38	998.4		999.7	80.1	78.6	77.8	31.2		93		5.4		0	1	0	0	0	5	7	1	1
	0300		999.6		1000.9	81.6	79.4	78.6	33.2		90		6.5		0	0	1	0	0	4	7	1	2
	1200		997.4		998.7	84.1	80.3	78.7	33.6		84		7.0		0	0	0	0	1	10	3	0	1
Karachi (Airport)	0000	73	999.1		1001.7	79.4	77.6	76.8	31.5		92		4.8		0	0	2	0	1	5	14	2	6
	0300		1000.7		1003.3	80.9	78.4	77.3	32.2		89		6.0		0	0	1	0	0	5	17	1	6
	1200		998.6		1001.1	84.0	79.2	77.0	31.9		77		6.0		0	0	1	0	0	22	6	0	1
HYDERABAD																							
Badin	0000	31	1001.5		1002.6	78.9	77.2	76.4	31.1		92		*		0	0	0	0	0	27	0	0	3
	0300		1003.1	—1.3	1004.1	80.7	78.8	77.9	32.7	+5.5	91	+14	*		0	0	0	0	0	29	0	0	1
	1200		1001.3		1002.3	87.5	81.5	78.9	34.0		76		*		0	0	0	0	0	28	0	0	2
Nagarparkar	0000	178 (Prov.)	*			*	*	*					4.0		1	0	1	1	0	7	2	3	15
	0300		991.8		997.9	80.3	70.8	65.1	21.5		61		4.5		0	0	0	0	2	7	5	2	14
	1200		989.1		995.2	86.9	77.3	72.4	27.7		63		3.4		1	0	0	0	2	6	4	0	17

(*) Data rejected. (c) Mean of 28 days. (p) Mean of 15 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1959.

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 levels 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	6	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	999.1		1001.1	77.3	76.5	75.9	30.7		97		1.1		1	0	1	3	13	8	0	0	4
	0300		1000.5		1002.4	79.1	77.6	77.0	31.6		93		4.5		0	1	2	2	16	6	1	1	1
	1200		997.9		999.8	88.8	79.8	75.9	30.5		66		4.3		0	0	0	2	11	11	2	2	2
Chhor	0000	19	1000.7		1001.4	78.1	76.8	76.4	30.9		94		3.7		0	0	0	0	2	17	0	0	11
	0300		1002.3		1002.9	80.7	78.2	77.1	31.9		89		4.8		0	1	2	3	1	19	0	0	4
	1200		999.7		1000.3	88.1	79.6	75.9	30.6		67		5.0		0	0	0	4	0	22	2	2	0
Hyderabad	0000	98	997.8		1001.2	79.2	76.9	76.0	30.5		90		3.4		0	0	(k) 0	0	5	15	0	0	0
	0300		999.2	—2.5	1002.6	80.9	77.8	76.4	31.1	+5.9	87	+15	3.8	+2.5	0	0	(k) 0	2	4	13	1	0	0
	1200		997.0		1000.4	88.6	79.5	75.7	30.3		66		4.5		0	0	(k) 0	1	8	10	0	0	1
KHAIRPUR																							
Padidan	0000	153	995.3		1000.6	79.4	77.0	75.7	30.6		89		1.4		1	1	0	17	1	0	0	0	10
	0300		996.9		1002.2	82.3	78.3	76.5	29.1		83		2.6		2	1	2	20	3	0	0	0	2
	1200		994.1		999.2	93.7	79.7	73.1	28.3		52		2.8		0	4	1	13	5	3	1	2	1
Nawabshah	0000	124	997.0		1001.2	79.3	76.3	75.0	29.6		87		2.1		1	0	0	0	12	1	0	0	16
	0300		998.7		1002.9	82.0	78.2	76.3	31.2		84		2.9		0	1	0	4	15	0	0	0	10
	1200		996.0		1000.3	91.4	79.8	74.8	29.5		59		3.7		1	2	3	1	14	4	1	0	4
Sukkur	0300	221	994.7	—1.6	1001.9	83.5	78.9	76.8	31.7	+4.5	81	+8	3.4	+3.0	0	0	1	4	10	7	1	0	7
	1200		991.3		998.7	95.1	81.9	76.4	31.2		55		3.3		6	1	2	2	2	5	8	2	2
Kashmore*	0000	255																					
	0300																						
	1200																						
Jacobabad	0000	183	994.4		1000.7	83.1	79.7	78.2	32.2		85		1.0		1	2	3	14	7	0	1	0	2
	0300		996.0	—2.1	1002.3	84.7	80.3	78.5	32.4	+4.0	81	+8	2.0	+1.5	3	2	3	12	6	1	0	0	3
	1200		992.9		999.0	96.4	82.8	76.8	31.2		55		3.0		0	1	0	16	10	0	1	0	2
JUNAGADH																							
Veraval	0000	26	*		*	*	*	*					*										
	0300		(l) 1004.6		(l) 1005.6	(l) 80.3	(l) 76.8	(m) 74.8	29.9		85		(l) 5.2		2	0	0	0	1	6	6	(l) 3	1
	1200		(j) 1002.8		(j) 1003.8	(j) 81.9	(j) 77.4	(j) 75.3	30.1		81		(j) 4.8		0	0	1	0	0	3	12	(j) 5	0
AFGHANISTAN																							
Jalalabad (x)...	0300	1950																					
	1200																						
ARABIA																							
Muscat (x)	0300	20																					
	1200																						
HILL STATION: KASHMIR																							
Srinagar (x)	0000	5205																					
	0300																						
	1200																						

(x) Data not available. (*) Data rejected. (l) mean for 19 days (j) mean for 21 days (k) mean for 20 days (m) mean for 18 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1959.

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	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	(*)		(*)	47.5	38.3	26.9	5.0		45		0.6		0	0	0	0	0	0	0	0	30
	0300		698.1	...	3080.6	57.8	44.1	29.3	5.6	...	34	...	0.7	...	0	0	1	0	0	0	0	0	29
	1200		694.3		3033.5	73.0	52.1	34.9	6.8		24		1.0		0	1	7	0	0	0	1	0	21
Aliabad (x)	0300	6850																					
	1200																						
Gilgit (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	781.3		1449.3	60.0	59.0	58.1	16.7		94		5.6		0	1	0	10	0	1	2	14	2
	0300		783.5	—1.0	1470.5	62.4	60.5	59.3	17.3	+4.3	89	+22	6.1	+3.9	0	1	1	10	1	1	7	3	6
	1200		782.2		1449.7	65.0	62.9	61.4	18.8		90		6.9		0	6	3	2	0	1	7	8	3
PESHAWAR																							
Drosh	0000	4806	848.1		1444.1	74.7	64.9	59.0	17.0		58		2.0		0	0	0	0	0	7	0	0	23
	0300		849.1	—4.0	1454.7	75.0	65.5	59.9	17.6	+4.8	59	+1	3.2	+2.0	0	0	0	0	0	2	0	0	28
	1200		844.1		1401.8	90.9	67.8	53.0	13.8		28		2.1		0	0	0	0	0	26	3	0	1
Chorat	0000	4272	865.0		1451.5	70.2	69.0	68.7	23.7		95		3.9		7	4	0	9	10	0	0	0	0
	0300		865.3	—2.0	1455.4	71.2	70.1	69.4	24.5	+8.9	95	+32	4.3	+2.8	4	1	0	3	10	4	2	1	5
	1200		863.7		1440.7	78.1	75.4	74.8	28.8		88		2.5		0	0	0	4	22	1	1	0	2
Kakul	0000	4214	866.6		1449.0	68.7	66.4	65.2	21.2		89		4.1		3	10	2	3	3	1	0	7	1
	0300		867.9	...	1462.8	72.1	68.8	67.2	22.7	...	84	...	4.7	...	0	2	2	7	6	4	0	3	6
	1200		865.6		1441.7	76.9	70.7	67.9	23.1		73		4.0		0	1	1	11	12	3	2	0	0
Ballakot	0000	3226	(x)		(x)	69.9	68.5	67.5	22.6		93		5.2		1	0	0	0	0	0	0	0	29
	0300		(x)	...	(x)	71.3	69.1	68.3	23.3	—	89	—	5.3	—	0	0	0	0	1	0	0	0	29
	1200		(x)		(x)	81.4	74.8	71.8	26.8		73		5.1		1	1	0	0	2	1	0	1	24
Landikotal	0000	3503	886.9		1434.7	72.7	70.3	68.7	24.3		88		3.0		0	13	0	0	0	0	0	0	17
	0300		888.3	...	1449.7	76.0	71.2	68.9	24.1	...	78	...	4.0	...	0	16	0	1	1	0	0	0	12
	1200		885.7		1430.3	84.1	74.6	70.2	25.4		65		1.9		0	13	0	14	3	0	0	0	0

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1959.

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 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										
D. I. KHAN																							
Parachinar	0000	5673	*		*	65.9	*	*	*		*		2.0		8	1	2	1	0	0	0	0	18
	0300		*		*	67.1	*	*	*	—	*	—	2.0	+0.6	0	0	0	0	1	0	0	0	29
	1200		*		*	78.8	*	*	*		*		2.2		0	0	2	22	0	0	0	2	4
Miranshah	0000	3026	901.0		1426.0	76.8	69.0	64.5	20.1		66		1.8		0	2	0	0	0	0	0	0	28
	0300		903.3		1449.9	78.8	72.1	68.9	23.3	+8.1	72	+20	2.7	+2.1	0	4	0	1	0	0	0	0	25
	1200		900.7		1434.3	89.0	77.3	72.3	27.6		59		1.9		0	23	0	2	0	0	0	0	5
Wana	0300	4503	857.5	—	1448.3	73.6	66.5	62.3	19.3	+6.8	69	+15	1.1	+0.3	0	0	1	3	5	2	0	0	19
	1200		855.2		1426.5	83.5	69.7	62.0	19.2		48		2.7		0	1	15	8	1	1	1	1	2
QUETTA																							
Fort Sandeman (x)	0300	4614																					
	1200																						
Hindubagh	0000	5909	812.4		1411.9	65.8	57.3	50.7	13.0		60		0.4		1	0	1	0	0	3	11	4	10
	0300		813.7		1421.0	69.5	58.9	51.2	13.2		54		0.4		0	1	2	2	1	6	8	5	5
	1200		811.6		1385.4	88.5	64.1	48.0	11.6		26		2.4		1	5	7	3	1	3	5	5	0
Loralai	0000	4699	850.5		1436.0	66.4	61.9	57.6	17.1		77		0.6		0	0	1	0	0	1	9	2	17
	0300		851.6		1447.6	70.4	64.3	63.3	18.1		71		2.1		1	3	1	0	1	0	10	0	14
	1200		849.1		1422.0	84.5	*	*	*		*		3.6		0	1	2	14	9	3	0	1	0
Harnai	0300												*		0	0	30	0	0	0	0	0	0
	1200												*		0	1	29	0	0	0	0	0	0
Quetta (Samungli)	0000	5213	835.7		1441.0	64.7	61.5	59.4	17.5		84		0.5		0	0	5	17	0	0	0	0	8
	0300		837.0		1452.7	68.8	62.9	58.5	17.5		72		0.9		0	1	8	8	0	0	0	0	13
	1200		833.9		1414.4	89.0	67.9	54.1	15.7		34		1.7		1	0	3	3	2	0	10	10	1

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1959.

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	0300	5490	828.4	—3.7	1447.9	70.0	62.6	58.4	16.7	+6.5	66	+14	1.1	0.8	0	0	0	4	10	0	0	0	16
	1200		826.5		1420.9	85.7	66.4	54.3	15.1		36		2.5		1	1	0	0	7	2	1	4	14
Chaman	0000	4311	861.8		1431.9	75.1	58.6	43.6	10.2		33		0.0		0	0	17	8	2	0	0	0	3
	0300		862.8	—3.5	1442.5	77.6	60.4	45.4	11.0	+3.1	34	+3	0.0	—0.2	0	0	5	13	6	1	0	0	5
	1200		860.4		1423.1	95.2	68.7	48.7	13.2		23		0.0		5	0	0	0	3	3	15	4	0
KALAT (NORTH)																							
Kalat	0000	6616	796.6		1464.6	58.2	55.4	53.5	14.0		84		0.7		0	0	0	4	23	0	0	0	3
	0300		797.6	—1.4	1464.8	68.3	60.1	54.3	14.8	+6.1	62	+18	0.8	+0.5	0	0	0	6	13	0	0	0	11
	1200		795.5		1428.0	79.8	62.6	51.5	13.2		38		2.7		5	4	5	0	0	3	2	8	3
Nushki	0000	3416	894.5		1485.9	80.3	64.5	52.4	14.3		40		0.5		0	0	17	11	0	0	0	0	2
	0300		894.4		1488.6	84.4	68.0	57.8	16.7		41		0.6		0	1	13	5	4	0	0	1	6
	1200		893.2		1486.6	99.4	75.8	63.8	20.8		32		1.3		1	2	3	1	5	1	2	13	2
Dalbandin	0000	2785	908.3		1421.9	75.7	57.6	39.9	9.4		30		1.2		3	4	4	1	0	3	1	7	7
	0300		910.1	—3.2	1439.6	76.5	58.8	42.4	9.8	+1.7	30	—4	1.4	+1.0	0	4	1	4	1	5	2	0	13
	1200		906.7		1432.7	101.4	67.4	40.7	9.1		13		1.1		2	5	0	6	2	9	3	2	1
KALAT (SOUTH)																							
Panjgur	0000	3177	897.8		1439.2	74.0	69.1	66.2	22.3		77		3.1		0	1	0	1	0	15	0	5	8
	0300		899.2	—1.8	1453.5	74.9	68.6	65.0	21.3	+7.3	72	+19	2.5	+1.9	0	3	1	0	0	1	0	0	25
	1200		896.8		1447.3	94.1	66.9	44.9	11.4		21		2.3		2	1	0	0	2	10	0	8	7
AFGHANISTAN																							
Kabul (x)	0300	5955																					
	1200																						
Kandahar	0300	3462	891.0	...	1456.0	66.0	58.7	53.9	13.9	...	63	...	0.3	...	0	0	0	2	1	0	0	0	27
	1200		887.9		1441.2	87.5	71.0	62.3	19.2		43		0.4		0	0	0	0	0	9	4	4	13

(x) Data not available.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF SEPTEMBER, 1959.

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	87.5		93	27	75.8		74	15,16	8.71		2.90	14	14		x		10		5		
Cox's Bazar (P. T.)	84.5	—1.9	91	27	75.7	—0.2	74	6 days	14.85	—0.40	3.23	20	20	+5.6	4.7	+2.1	8				
Chittagong (Patanga)	85.8		91	26,27	76.8		75	4 days	12.59		4.54	14	15		x		5				
Chittagong (P. T.)	85.1	—2.0	92	27	77.6	+1.2	75	6 days	12.97	+0.33	5.78	14	15	+2.0	3.1	—1.6	1				
Maijdi Court	85.4	—1.3	92	28	77.2	—1.1	73	24	22.89	+6.79	6.30	12	18	+2.0	x						
Comilla	87.2	—1.4	94	28	76.9	0	75	5 days	9.19	—2.16	2.63	12	11	—2.7	x		0	0	0	0	0
Brahmanbaria	87.5	—2.7	94	28	77.9	+1.4	75	21	9.16	—0.44	2.72	13	11	—2.1	3.4		4				
Srimangal	88.0	—2.3	95	28	75.5	+0.2	72	27	9.09	—2.68	1.67	21	16	+0.1	x		17		2		
Sylhet (P. B. O.)	86.2		93	2,28	76.2		73	19,21	27.97		7.11	5	16		x		11				
DACCA DIVISION																					
Mymensingh	87.0	—0.8	93	1,28	77.1	—0.7	72	20	7.14	—6.95	1.82	19	13	—1.7	1.4	0	7				
Narayanganj	87.7	—1.0	95	28	78.6	—0.2	75	23	16.96	+7.20	4.89	12	12	—0.1	4.7	—1.8	1				
Dacca (Tejgaon)	86.5		92	28	77.5		73	23	18.32		4.90	12	15		5.6		11				
Faridpur	86.5	—1.3	93	28	76.3	—2.2	74	6 days	20.66	+11.40	3.73	12	18	+6.0	1.8	—1.9	2				
Barisal	86.4	—1.7	93	28	77.7	—0.5	71	13	36.03	+25.95	6.76	12	22	+7.8	*		4		1		
RAJSHAHI DIVISION																					
Khulna	87.1	—1.9	92	5 days	77.8	—0.7	75	4 days	18.08	+10.16	2.55	15	18	+5.8	2.8	+0.2					
Satkhira	88.0	—1.6	92	26,27	78.1	—0.2	75	29	18.06	+9.28	5.83	11	19	+6.8	0.1	—1.4					
Jessore (P.T.)	87.4	—1.9	92	26,27,28	78.4	+0.9	75	10,11,29	11.53	+3.05	2.76	10	13	+1.0	3.5	+1.6			2		
Pabna	88.0	—2.8	95	28	77.9	+1.5	75	5 days	19.50	+11.13	3.25	13	19	+7.9	x		9				
Serajganj	87.9		94	28,29	78.0		74	23	12.71	+3.02	3.65	13	12	+0.2	2.8		5				
Rajshahi									6.12	—3.66	1.90	8	8	—3.6							
Bogra (P.B.O.)	87.9	—1.2	93	28	77.8	—0.1	74	18	12.23	+0.94	3.60	23	14	+1.4	3.1	+1.7	6				
Dinajpur	89.5	+0.8	95	4 days	78.0	+0.1	72	8	4.61	—8.44	1.33	15	10	—2.5	0.8	—1.0	3				
Rangpur	87.9		93	4 days	77.5		72	8	3.49	—10.61	1.14	7	12	—0.9	3.1		1				

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF SEPTEMBER, 1959.

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 Figures 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.)	93.4	—3.9	99	2	78.4	+5.3	74	19	1.75	—0.45	0.68	4	5	+2.5	1.1	—0.2	8	0	0	0	0
„ (P.A.F.)	92.4	—	98	2	77.9	—	73	24	1.89	—	0.45	4	5	—	3.5	—	8	0	0	0	0
„ (Walton)	94.5	—	100	2	78.4	—	73	27	3.55	—	1.89	19	5	—	3.6	—	6	0	0	0	0
Sialkot	91.4	—3.2	97	1,2	76.3	+2.5	71	19	10.22	+6.79	4.01	18	8	+4.2	1.4	+0.2	0	0	0	0	0
RAWALPINDI																					
Jhelum	93.3	—	99	2	77.0	—	71	5	4.21	—	1.65	4	5	—	1.4	—	11	0	0	0	1
Chaklala	90.0	—	97	15	73.9	—	68	27	10.56	—	2.80	8	8	—	3.3	—	14	0	0	0	0
Rawalpindi	91.2	—2.2	97	15	74.4	+5.1	69	4,27	7.65	+3.76	1.87	19	12	+7.4	2.1	+0.8	11	0	0	0	0
Khushab	95.3	—3.3	101	2,14,15	78.8	+2.7	73	25	1.58	+0.20	1.10	8	3	+1.0	3.3	—0.4	0	0	0	0	0
Sargodha	98.7		102	15	78.9		75	19	x		—	—	—	—	2.5	—	10	0	0	0	1
MULTAN																					
Lyallpur	94.3	—3.8	101	14	78.6	+3.4	75	5 days	3.98	+2.49	2.97	9	3	+1.3	1.9	—0.1	10	0	0	0	0
Montgomery	96.5	—2.8	103	2	78.6	+2.7	75	9,24,26	2.45	+1.18	1.10	8	5	+3.4	1.9	—1.5	0	0	0	0	0
Multan (P.B.O.)	98.7	—	105	2	80.4	—	77	4,5,25	0.53	—	0.20	2	3	—	4.4	—	8	0	0	0	1
„ (Surface)	98.4	—0.3	106	1	81.6	+3.9	78	4,5,9	0.98	+0.44	0.40	4	3	+2.3	2.5	—0.8	6	0	0	0	1
BAHAWALPUR																					
Leiah	99.1	—	108	2	78.6	—	75	6 days	2.71	—	1.59	17	3	—	(b) 3.9	—	8	0	0	0	1
Khanpur (Surface)	100.5	—1.7	107	3	80.5	+3.5	76	7	x	—	x	—	x	—	4.2	—0.9	10	0	0	0	2
„ (P.B.O.)	98.5	—	105	2,3	79.1	—	75	7	2.15	—	1.96	7	2	—	4.4	—	10	0	0	0	2
Bahawalpur	98.2	—2.2	106	2,3	77.9	+2.2	76	3	1.29		1.20	7	1		(a) 1.8	—	0	0	0	0	0
Fort Abbas	98.6	—	107	2	78.2	—	76	5 days	5.07	—	1.27	6	6	—	3.5	—	0	0	0	0	0
PESHAWAR																					
Chakdara	90.1	—	95	2	73.2	—	69	26,27,30	4.11	—	1.80	16	4	—	2.8	—	3	0	0	0	0
Peshawar	92.6	—2.4	98	7,15	77.1	+5.3	73	16,25	2.97	+2.16	1.75	16	3	+1.5	1.8	—0.5	10	0	0	0	1
Risalpur	93 3	—	100	15	76.9	—	70	4	7.71	—	2.61	9	4	—	2.5	—	12	0	0	0	1
Haripur	91.8	—	97	17,23	71.6	—	68	11	3.05	—	0.96	16	4	—	3.8	—	3	0	0	0	0
Campbellpur	(b) 93.1	—	99	14,15	76.9	—	63	19	5.36	—	2.14	17	6	—	(l) 1.2	—	0	0	0	0	0
D. I. KHAN																					
Kohat	94.2	—	101	15	78.1	—	72	25	4.33	—	2.28	10	6	—	2.6	—	14	0	0	0	0
Bannu	95.8	—2.1	103	3,4	79.3	+5.6	70	25	2.14	+1.51	1.09	24	3	+2.0	1.5	—	5	0	0	0	0
D. I. Khan	98.5	—0.9	103	15	79.2	+3.6	75	25,26	0.31	—0.32	0.25	6	1	+0.1	0.1	—1.1	2	0	0	0	0

(x) Data not available. (b) Mean for 29 days. (l) Mean for 19 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF SEPTEMBER, 1959.

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	103.6	−0.4	109	17	*				0.78	+0.65	0.60	7	2	+1.7	3.0	−0.3	3	0	0	0	0
KALAT (NORTH)																					
Nokkundi	106.1	+5.6	112	4	77.6	+6.7	68	30	0.00	0.00			0	0.0	x		0	0	0	0	0
KALAT (SOUTH)																					
Turbat	101.0		110	4	*				1.56		0.95	15	3		x		0	0	0	0	0
Jiwani	89.3		92	14	79.5		75	28,30	0.14		0.06	21	0		6.7		0	0	0	0	0
Pasni	91.1	+1.9	99	26	78.6	−6.1	74	17	0.51	+0.51	0.41	17	1	+1.0	8.0	+2.0	0	0	2	0	0
Ormara	89.4	+3.0	96	5	79.5	−3.2	76	13,18,19	1.90	+1.89	0.69	19	4	+4.0	9.0	−0.3	5	0	0	0	1
Lasbela	99.6	+0.2	107	5	78.6	−5.0	71	19	3.02	+2.44	1.12	11	7	+6.5	x		2	0	0	0	0
FEDERAL CAPITAL AREA																					
Karachi (Manora)	87.1	+1.5	91	4	78.2	−1.5	74	15	8.47	+7.95	4.13	12	6	+5.5	x		0	0	0	1	0
Karachi (Mauripur)	87.2		92	5	78.8		73	17	7.89		3.09	6	6		6.3		6	0	0	0	1
Karachi (City)	87.2		91	4	78.1		72	6,17	15.20		5.50	6	8		4.2		0	0	0	0	0
Karachi (P.A.F.) (p)	88.6				78.3				7.48						7.8		4	0	0	0	0
Karachi (Airport)	87.7		93	4	78.3		70	12	12.43		4.40	6	9		6.7		7	0	0	0	0
HYDERABAD																					
Badin	90.0	−4.1	97	1,3	77.1	−0.1	71	5	12.67	−11.78	3.82	17	9	+8.1	1.4		0	0	0	0	0
Nagarparkar	89.7		94	1,25	76.6		74	16,17	20.35		7.50	17	9		0.6		0	0	0	0	0
Umarkot	92.1		97	1,5,30	75.9		73	5 days	6.78		2.12	6	6		4.4		4	0	0	0	0
Chhor	92.2		97	4	77.3		74	10	6.68		3.01	6	6		4.0		10	0	0	0	0
Hyderabad	93.2	−4.1	100	2,5	78.1	+1.7	75	11,12	7.58	+6.95	3.07	6	9	+8.2	(o) 6.9	−0.5	1	0	0	0	0
KHAIRPUR																					
Padidan	97.7		105	1,2	78.4		75	19	2.10		1.18	12	3		5.5		5	0	0	0	0
Nawabshah	95.8		102	2	78.2		76	5	2.67		1.04	4	4		2.9		6	0	0	0	1
Sukkur	99.1	−1.3	104	1,3,4	80.2	+1.5	77	12,19	1.43	+1.41	1.24	12	2	+1.9	2.6	−0.9	0	0	0	0	0
Kashmore	*				*				0.13		0.13	29	1		*		0	0	0	0	1
Jacobabad	99.1	−3.2	104	1,2,4	82.0	+5.0	78	18,19	0.08	−0.09	0.04	6	0	−0.3	6.0	+1.5	3	0	0	0	0
JUNAGADH																					
Veraval	(k) 85.1				(l) 76.6				*						x		0	0	0	0	0
AFGHANISTAN																					
Jalalabad (x)																					
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. (*) Data rejected. (k) Mean for 20 days. (o) Mean of 16 days. (l) Mean for 19 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF SEPTEMBER, 1959.

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	80.8	—	85	15	x	—	—	—	0.00	—	0.00	—	0	—	3.3	—	0	0	0	0	0
Aliabad (x)																					
Gilgit (x)																					
RAWALPINDI																					
Murree	67.6	—4.7	71	1,28	58.5	+3.7	55	27,28	11.80	+6.38	2.67	19	13	+5.8	4.1	+0.8	10	0	21	0	0
PESHAWAR																					
Drosh	96.3	+8.3	108	22	73.2	+8.8	65	25	0.00	—0.69	0.00	—	0	—1.9	5.2	+2.0	2	0	0	0	0
Cherat	80.8	—3.2	86	2	68.6	+2.5	64	16	6.40	+4.33	2.18	18	8	+5.1	1.2	—2.9	8	0	11	0	0
Kakul	81.5	—	86	14,15	67.7	—	64	27	6.16	—	1.10	17	12	—	(x)	—	10	0	4	0	0
Balakot	86.0	—	90	14,15	67.0	—	62	27	13.44	—	4.10	12	12	—	1.3	—	8	0	0	0	0
Landikotal	88.0	—	96	27	(x)	—	—	—	0.88	—	0.88	25	1	—	3.8	—	5	0	2	0	0
D. I. KHAN																					
Parachinar	83.5	+2.3	88	15	63.6	+5.0	59	4 days	6.75	+4.64	2.25	24	6	+1.0	2.3	+0.2	7	0	0	0	0
Miranshah	91.2	—0.5	96	15,16	74.4	+3.3	70	27	1.10	+0.37	1.00	25	1	—0.7	5.7	+1.1	1	0	0	0	0
Wana	89.5	—0.1	93	3,22	67.4	+6.2	61	26	0.94	+0.45	0.31	8	3	+1.6	3.0	—	13	0	0	0	0
QUETTA																					
Fort Sandeman (R)																					
Hindubagh	*				*				0.66		0.57	7	1		4.4		0	0	0	1	0
Loralai	88.3		91	4 days	63.5		57	21,27,30	0.17	—0.02	0.17	16	1	+0.5	2.5		3	0	0	0	0
Harnai									3.10	+2.16	1.10	5,12	4	+2.6	x		0	0	0	0	0
Quetta (Samungli)	91.9		96	3,4,15	61.2		45	29	0.31		0.20	17	2		6.0		7	0	0	0	4
Quetta	90.6		98	4	61.1		47	30	0.24		0.17	17	1		3.5	+1.9	2	0	0	0	0
Chaman	97.2	+6.4	102	3,4	(b) 69.6	+5.9	60	30	0.00	—0.03	0.00		0	—0.1	x		0	0	0	0	0
KALAT (NORTH)																					
Kalat	86.5	+2.5	91	3,4,15	57.1	+8.6	48	29,30	2.27	+2.18	1.05	19	3	+2.8	x		3	0	0	0	0
Nushki	102.7		107	4,5	77.2		67	30	0.20		0.20	18	1		x		2	0	0	0	2
Dalbandin	103.6	+4.3	109	4	71.5	+9.9	59	30	0.00	0.00	0.00		0	0.0	3.4	+0.2	0	0	0	0	2
KALAT (SOUTH)																					
Panjgur	95.8	+0.1	102	4	71.8	+6.8	65	28	1.12	+1.08	0.76	13	3	+2.8	x		0	0	0	0	0
AFGHANISTAN																					
Kabul (x)																					
Kandahar	95.0	—	100	4	61.4	—	51	30	0.00	—	0.00	—	0	—	0.5	—	0	0	0	0	0

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

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PAKISTAN WEATHER REVIEW, 1959

MONTHLY WEATHER REPORT

October

(PUBLISHED BY THE AUTHORITY OF GOVERNMENT OF PAKISTAN)

Chief Features:

1. Widespread and locally heavy rain in East Pakistan.
2. Formation of a cyclonic storm in North Arabian Sea during the third week.
3. Movement of a deep depression from west central Bay of Bengal to East Pakistan caused copious rainfall at the end of the month.

West Pakistan

At the beginning of the month penetration of moist easterlies into the southeastern districts of the region under the influence of a cyclonic storm which had just crossed Orissa coast in India caused scattered thunder-storms or showers in Hyderabad Division on the 1st and 2nd. Thereafter the passage of three westerly low pressure waves across the north of the region in close succession caused fairly widespread thunder-rain in Peshawar, Rawalpindi and Lahore Divisions between the 3rd and the 6th and again on the 8th in D. I. Khan and Peshawar Divisions. The rainfall was generally light, however on the 6th when some moderate to heavy falls were reported from Rawalpindi Division.

The formation of a depression in north Arabian Sea off Konkan Kathiawar Coast was associated with a mild heat wave in the southern parts of region between the 9th and the 11th. The depression formed on the 11th morning and was centred at 0300 GMT within half a degree of latitude 20.5°N and longitude 71.5°E. It crossed coast the same night and lay over Kutch for some time but re-emerged into north Arabian Sea on the 15th evening, moved slowly westwards, gradually intensified into a cylonic storm and crossed Kuria Muria Coast on the 19th morning whereafter it rapidly weakened into a low. It caused scattered thundershowers in Hyderabad division on the 13th and again on the 18th. The weather was otherwise dry over West Pakistan throughout the third week and the earlier part of the fourth week.

Towards the end of the month two western disturbances moved in close succession across Russian Turkistan while their associated troughs moved across the northern parts of West Pakistan. They caused scattered thunder-storms or showers in Peshawar Division on the 26th and local practically throughout the northern divisions during the next three days.

Chief amounts of rainfall during the month were:—Sialkot 1-1/2″ on 3rd; Rawalpindi 3″, Khushab 2″ and Jhelum, Murree, Peshawar, Haripur and Miransah 1-1/2″ each on the 6th and Lyallpur 1″ on the 28th. The total rainfall during the month was in large defect in Bahawalpur, Quetta, Hyderabad, Khairpur Divisions and the Federal Capital Area; in moderate defect in Kalat division, in slight excess in Peshawar division and in large excess elsewhere. Averaged over the region as a whole it was in large excess.

The mean maximum temperature was below normal in Lahore division, normal in Rawalpindi, Multan, Bahawalpur, Hyderabad and Khairpur divisions and in the Federal Capital Area and above normal elsewhere.

The mean minimum temperature was above normal everywhere.

The mean relative humidity was in excess over the entire region outside Quetta and Kalat divisions where it was normal.

The mean cloud amount was in excess in Lahore and Rawalpindi divisions, normal in Multan, D. I. Khan divisions and in the Federal Capital Area and in defect elsewhere.

East Pakistan

Last month's cyclonic storm became severe on the 30th evening, crossed Orissa coast and was centred close to Balasore at 0300 GMT of the 1st. It moved initially northwestwards and then westwards and rapidly weakened into a low by the 3rd. Under its influence widespread and locally heavy rain fell in East Pakistan till the 4th and local to fairly widespread thereafter till the 7th. As a result of these heavy rains normal life was paralysed, a number of houses collapsed and some persons were killed as reported by newspapers.

Monsoon activity declined for a short while on the 8th and 9th when only scattered rain fell in the region but again it revived on the 10th causing local or fairly widespread rainfall in most of the divisions till the 16th.

Thereafter except for short intervals on the 17th and between the 22nd and the 24th, when pronounced rainfall activity occurred over the region in association with the passage of low pressure waves across the northern parts, only scattered rain or thundershowers were reported from the region till the 28th.

Towards the end of the month a deep depression moved northeastwards from west central Bay of Bengal and after crossing Chittagong coast on the 29th weakened into a low over Assam by the 30th evening. It caused widespread rain with locally heavy to very heavy falls over the region betwen the 29th and the 30th and scattered light rain in Dacca and Chittagong divisions on the 31st.

Outstanding rainfall amounts were:—Jessore 5″ on the 1st; Rajshahi, Bogra and Dinajpur 7″; and Sirajganj 6″ on the 2nd; Rangpur 6″ and Narayanganj 5″ on the 4th; Faridpur 7″ on the 5th; Brahmanbaria 4″ on the 13th; Dacca 4″ on the 3rd and Chittagong 12″; Maijdee Court 7″ and Comilla 5″ on the 30th.

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

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

The mean relative humidity was in excess over the region outside Chittagong division where it was normal.

The mean cloud amount was in excess over the whole region.

Table I contains the divisional means of rainfall temperatures relative humidity and the cloud amount for the 15 divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

(Sd.) MUHAMMED SAMIULLAH,
for *Director,*
Meteorological Serivices.

TABLE I—DIVISIONAL MEANS FOR OCTOBER 1959.

Division	PRECIPTATION				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	14.40	7.08	+7.32	+103	—2.0	+0.6	—0.2	+2	+1.4
Dacca	23.34	5.65	+17.69	+313	—2.8	—0.1	+0.5	+6	+2.1
Rajshahi	21.96	4.66	+17.30	+371	—3.4	+1.3	+1.2	+8	+1.9
Mean	20.01	5.70	+14.31	+233	—2.8	+0.6	+0.6	+5	+1.8
WEST PAKISTAN									
Kashmir (x)									
Lahore	1.81	0.29	+1.52	+524	—2.1	+7.9	+7.0	+17	+0.5
Rawalpindi	2.96	0.77	+2.19	+284	—1.3	+4.4	+5.8	+23	+0.6
Multan	0.35	0.09	+0.26	+289	+1.0	+7.3	+4.2	+13	0.0
Bahawalpur	0.00	0.04	—0.04	—100	+1.7	+7.5	+5.4	+7	—0.1
Peshawar	0.90	0.69	+0.21	+30	+5.0	+4.4	+4.7	+11	—0.4
D. I. Khan	0.78	0.25	+0.53	+212	+2.0	+4.9	+5.0	+13	0.0
Quetta	0.04	0.13	—0.09	—69	+4.9	+5.5	+2.9	+4	—0.4
Kalat	0.01	0.02	—0.01	—50	+3.0	+5.1	+2.4	—2	—0.4
Federal Capital Area	0.00	0.02	—0.02	—100	+1.8	+3.4	+5.4	+6	0.0
Hyderabad	0.00	0.03	—0.03	— 100	+0.3	+5.9	+8.4	+19	—0.4
Khairpur	0.00	0.02	—0.02	—100	+1.9	+6.3	+6.4	+15	—0.1
Mean	0.32	0.15	+0.17	+113	+2.4	+5.7	+4.5	+8	—0.2
Junagadh (x)									

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER, 1959.

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		1004.1		1011.1	73.8	73.2	72.7	27.7		97		7.1		5	0	0	1	5	0	0	1	19
	0300		1005.3		1012.6	78.7	75.7	74.4	29.0		87		5.6		5	3	5	3	9	1	0	1	4
	1000		1002.2		1009.4	78.7	76.0	74.6	29.4		88		6.3		1	0	3	0	8	1	7	0	3
Cox's Bazar (P.T.)	0300	38	1009.9	—0.4	1011.2	82.3	77.5	75.4	30.0	—0.3	80	0	4.2	+0.8	4	2	4	8	8	3	2	0	0
	1200		1007.2		1008.5	80.9	76.4	74.3	29.0		80		5.5		1	1	1	3	9	8	6	2	0
Chittagong (Patanga)	0000	20	1009.2		1009.9	75.5	74.6	74.1	28.7		96		5.0		0	8	3	6	3	0	0	0	11
	0300		1011.0		1011.7	80.9	77.2	75.5	30.2		84		5.0		0	12	4	10	1	1	1	0	2
	1200		1008.1		1008.8	83.8	76.5	74.5	29.2		81		5.0		0	2	0	4	4	7	4	4	6
Chittagong (P.T.)	0300	46	1010.2	0.0	1011.8	81.0	75.7	77.1	30.0	+0.4	83	0	4.7	+1.1	2	13	3	8	2	1	1	0	1
	1200		1007.1		1008.7	79.8	75.8	74.4	28.6		83		4.7		3	0	0	2	6	9	3	4	4
Maijdi Court	0000	25	1008.4		1009.2	76.1	75.0	74.6	29.2		95		4.5		0	1	0	0	0	0	2	0	28
	0300		1010.4	—0.4	1011.3	80.3	76.7	75.1	29.7	—0.9	85	+2	4.2	+1.2	0	0	0	1	1	0	1	0	28
	1200		1006.7		1007.6	80.5	77.1	75.7	30.2		85		3.2		2	0	1	2	3	0	1	0	21
Comilla	0000	29	1008.7		1009.7	*	*	*	*		*		3.6		0	0	0	0	0	0	0	0	31
	0300		1010.3	—0.5	1011.3	*	*	*	*		*		4.3	+1.5	0	0	0	0	0	0	0	0	31
	1200		1007.4		1008.4	*	*	*	*		*		4.5		0	0	0	0	0	0	0	0	31
Brahmanbaria	0000	32	1008.8		1009.9	76.2	74.5	74.1	28.4		92		5.6		0	4	0	5	0	0	0	0	22
	0300		1010.8		1011.9	79.7	76.2	74.6	29.3	+0.1	85	+9	5.1		0	10	5	4	3	0	0	0	9
	1200		1007.4		1008.5	79.4	76.6	75.3	30.0		88		4.7		0	1	3	2	1	1	0	0	23
Srimangal	0000	69	1007.6		1010.1	72.0	71.0	70.2	25.5		95		6.0		0	2	0	0	0	0	0	0	29
	0300		1009.5	—0.4	1011.9	78.9	75.2	73.6	28.2	—0.2	83	—1	5.5	+2.3	0	2	0	2	4	0	0	0	23
	1200		1006.2		1008.5	77.9	75.5	74.0	29.0		89		5.3		0	1	0	0	0	0	0	0	30
Sylhet (P.B.O.)	0000	115	1005.8		1009.8	72.5	71.8	71.3	26.4		97		5.8		0	0	20	0	0	0	0	0	11
	0300		1007.7		1011.7	76.8	74.2	72.8	27.7		88		5.8		0	1	25	0	0	0	0	0	5
	1200		1004.4		1008.4	78.0	75.2	73.9	28.6		87		4.3		0	1	5	1	0	0	3	0	21
Dacca Division																							
Mymensingh	0000	62	1007.7		1009.9	74.7	73.3	72.7	27.3		93		4.8		0	0	0	5	0	1	2	0	23
	0300		1010.0	0.0	1012.1	78.3	75.2	73.4	28.5	—0.3	86	+5	4.7	+1.2	0	0	8	15	0	0	2	0	6
	1200		1006.5		1008.6	79.8	75.5	73.5	28.2		82		3.8		0	0	1	5	1	0	3	0	21
Narayanganj	0000	26	1008.2		1009.1	76.3	75.2	74.8	29.6		96		5.7		1	1	4	4	4	0	0	0	17
	0300		1010.4	—0.5	1011.3	81.1	77.2	75.0	30.1	+1.0	83	+6	5.7	+2.3	0	0	14	2	2	2	0	1	10
	1200		1006.9		1007.8	80.5	76.8	74.7	29.5		84		4.2		0	0	7	1	3	2	0	0	18
Dacca (Tejgaon)	0000	27	1007.9		1008.9	74.4	73.9	73.7	28.4		98		5.5		1	3	3	3	1	2	0	1	17
	0300		1010.0		1010.9	79.4	76.3	74.7	29.6		87		5.8		1	4	8	6	1	3	0	1	7
	1200		1006.8		1007.7	78.9	75.7	74.2	28.9		85		5.1		0	2	4	5	0	2	1	0	17

(*) Data rejected

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER, 1959.

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	1007.4		1009.0	75.7	74.9	74.4	29.2		96		4.8		2	7	0	6	7	0	0	0	9
	0300		1009.3	−0.5	1010.9	80.2	76.9	75.2	30.1	−0.9	86	+10	5.5	+3.1	2	5	4	7	7	1	0	0	5
	1200		1006.3		1007.9	80.2	76.6	75.1	29.6		85		4.7		1	1	2	5	4	0	0	0	18
Barisal	0000	11	1009.3		1009.7	76.9	75.7	75.5	29.8		94		3.9		0	1	3	2	2	0	0	0	23
	0300		1010.7	−0.3	1011.1	81.4	77.5	75.9	30.4	−0.2	83	+4	4.9	+1.9	2	5	8	9	2	0	1	0	4
	1200		1007.8		1008.2	81.9	77.9	76.1	30.8		83		4.5		1	0	2	1	1	0	0	0	26
Rajshahi Division																							
Khulna	0000	16	1008.4		1009.0	77.1	76.1	75.5	0.3		95		2.2		0	0	1	2	0	0	0	0	28
	0300		1010.5	−0.7	1011.1	81.3	77.2	75.4	30.0	−1.5	83	+9	5.5	+2.1	0	0	1	6	0	0	0	0	24
	1200		1007.5		1008.1	80.6	76.8	75.4	29.8		84		4.2		0	0	1	2	0	0	0	0	28
Satkhira	0000	16	1008.6		1009.2	76.5	75.6	75.0	29.8		96		3.5		1	0	1	1	0	0	0	0	28
	0300		1010.7	−0.4	1011.3	81.2	77.3	75.4	30.2	+0.9	83	+5	5.3	+2.4	0	1	1	0	0	1	0	0	28
	1200		1007.4		1007.9	80.1	77.1	75.7	30.4		87		5.7		0	1	0	1	0	0	0	0	29
Jessore (P.T.)	0000	26	1007.7		1008.6	75.8	75.1	74.7	29.4		97		5.0		0	7	3	2	5	2	0	1	11
	0300		1009.9	−0.9	1010.7	79.6	77.2	76.2	30.9	+1.9	89	+11	5.0	+2.2	2	7	7	4	5	4	0	0	2
	1200		1007.0		1007.9	80.8	77.3	75.7	30.4		85		4.8		10	0	7	1	11	0	2	0	0
Pabna	0000	48	1006.7		1008.4	75.4	74.8	74.3	29.2		97		5.4		1	5	3	7	2	0	0	1	12
	0300		1008.8		1010.4	80.4	76.8	75.0	29.8	+0.4	85	+7	5.4		2	6	6	11	2	2	0	2	0
	1200		1005.3		1006.9	80.0	76.4	75.1	29.4		85		3.5		2	5	7	3	2	2	0	8	2
Serajganj	0000	51	1008.1		1009.9	74.7	74.0	73.4	28.3		97		4.4		0	0	5	0	0	0	0	0	26
	0300		1008.7		1010.5	80.4	78.4	77.7	32.3		91		4.8		0	0	7	1	3	0	1	0	19
	1200		1005.0		1006.8	78.8	78.0	77.7	32.4		96		3.7		0	0	5	0	1	0	0	0	25
Rajshahi	0300												(b) 6.0										
Bogra (P.B.O.)	0000	65	1007.6		1009.8	74.6	74.0	73.6	28.4		97		4.1		1	3	6	0	1	0	0	0	20
	0300		1009.0	−0.4	1011.3	78.5	75.5	74.0	28.8	+0.2	87	+7	4.9	+2.3	1	5	13	1	0	1	3	0	7
	1200		1005.7		1007.9	79.4	75.8	74.1	28.8		84		4.3		1	3	7	1	0	2	2	0	15
Dinajpur	0000	123	1005.2		1009.5	73.2	72.1	71.4	26.5		95		3.4		0	4	2	0	0	0	0	0	25
	0300		1006.5	−1.0	1010.8	79.0	74.6	72.3	30.0	+2.5	89	+8	3.2	+0.6	0	0	3	0	0	0	0	0	28
	1200		1003.2		1007.4	80.5	75.8	73.6	28.3		80		2.4		0	0	4	0	0	0	0	0	27
Rangpur	0000					73.6	72.7	72.1	27.0		95		4.3		4	1	9	1	0	0	0	0	16
	0300					77.7	75.0	73.6	28.4		87		4.7		0	3	19	2	3	0	0	0	4
	1200					79.1	75.4	73.6	28.4		83		4.0		0	2	5	6	3	0	0	0	15

(a) Observation for 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER, 1959.

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	984.5		1009.0	69.2	67.4	66.4	22.1		91		0.9		0	2	0	2	0	0	0	0	27
	0300		986.1	—0.7	1010.5	75.2	69.8	66.7	22.4	+6.5	75	20	0.9	+0.3	0	4	1	3	0	0	0	0	23
	1200		983.5		1007.2	87.2	74.3	67.6	23.1		52		0.8		0	0	0	0	0	0	0	1	30
,, (Cantt.)	0000	703	983.7		1008.4	70.1	68.1	66.9	22.5		90		1.0		0	4	7	3	3	1	1	3	9
	0300		985.5	...	1010.0	74.8	70.2	67.5	23.2	...	79	...	1.2	...	1	3	8	6	6	1	1	2	3
	1200		982.6		1006.6	86.9	73.6	66.5	22.3		51		0.7		2	3	5	3	1	0	0	13	4
,, (Walton)	0000	699	984.3		1008.7	70.0	67.2	65.4	21.5		86		0.8		0	1	3	8	2	0	0	0	17
	0300		986.1	...	1010.3	75.5	70.1	67.0	22.7	...	75	...	0.9	...	2	1	8	9	6	0	0	1	4
	1200		983.3		1006.9	88.4	74.9	68.0	23.4		51		0.8		2	3	3	2	2	1	4	14	0
Sialkot	0000	830	(a) 979.9		(a) 1008.8	(a) 70.7	(a) 68.0	(a) 66.3	22.3		86		(a) 0.4		0	3	0	2	0	0	0	0	(a) 25
	0300		981.4	—1.5	1010.0	76.0	70.7	67.5	23.3	+7.5	76	+14	1.2	+0.6	0	1	0	4	0	0	0	0	26
	1200		978.8		1006.8	84.2	73.5	67.9	23.3		58		0.9		0	0	0	2	0	1	0	3	25
RAWALPINDI																							
Jhelum	0000	765	982.2		1009.0	68.6	66.6	65.5	21.4		90		1.3		0	2	0	0	0	1	1	2	25
	0300		983.9	...	1010.5	71.9	68.3	66.0	22.0	...	82	...	1.7	...	0	3	0	2	1	0	0	2	23
	1200		980.9		1006.8	85.6	73.8	67.6	23.1		55		1.5		0	1	0	4	1	2	1	1	21
Chaklala	0000	1667	952.4		1010.2	63.8	61.9	60.8	18.2		90		1.4		1	6	2	2	0	0	1	0	19
	0300		953.7	...	1011.1	68.6	64.2	61.5	18.7	...	78	...	1.5	...	0	4	3	2	0	0	0	0	22
	1200		951.3		1007.0	82.6	68.9	60.9	18.6		49		1.5		0	1	1	4	2	1	11	2	9
Rawalpindi	0000	1675	(a) 952.6		(a) 1010.7	(a) 64.5	(a) 62.1	(a) 60.7	18.0		87		(a) 0.8		6	0	0	0	0	0	0	1	(a) 23
	0300		953.4	—1.3	1010.0	69.1	64.6	62.2	18.8	+6.0	76	+24	1.7	+0.8	6	7	2	1	0	0	2	0	13
	1200		951.3		1007.5	81.6	70.7	65.1	20.6		57		1.5		1	1	1	0	3	0	6	1	18
Khushab	0000	616	*		*	*	*	*	*		*		0.5		0	0	6	0	0	0	0	0	25
	0300		988.9	—1.3	1010.5	74.3	69.1	66.4	21.9	+8.5	77	+25	0.5	—0.1	0	3	5	1	0	0	0	0	22
	1200		986.2		1006.9	89.0	72.9	63.7	20.5		44		0.7		0	1	7	2	0	0	0	1	20
Sargodha	0000	614	987.3		1008.5	68.7	66.3	67.8	21.0		87		0.5		0	5	5	1	0	0	0	0	20
	0300		988.8		1009.5	73.5	68.8	66.3	22.0	...	78	...	0.6		2	9	4	1	0	0	2	0	13
	1200		986.2		1006.6	88.2	72.3	62.9	19.9		43		0.5		0	5	6	1	3	1	2	1	12
MULTAN																							
Lyallpur	0000	605	987.4		1008.4	70.9	67.1	64.7	20.9		81		0.2		0	3	0	1	0	0	0	1	26
	0300		988.6	—1.6	1009.6	72.5	67.6	64.5	20.8	+6.2	76	+21	0.7	0.0	1	0	2	7	2	1	2	0	16
	1200		986.5		1006.9	89.5	73.2	62.4	20.7		43		0.6		0	1	0	3	4	1	2	3	17
Montgomery	0000	558	988.5		1008.2	70.1	66.1	63.5	20.0		80		0.2		0	0	0	7	0	0	0	0	24
	0300		990.1	—1.4	1009.4	72.5	66.8	63.6	19.9	+3.6	73	+13	0.2	—0.2	0	0	0	11	0	0	0	0	20
	1200		987.7		1006.4	91.0	73.9	64.4	20.9		42		0.0		0	0	0	2	0	0	0	0	29
Multan (P.B.O.)	0000	404	993.4		1007.6	72.1	66.1	62.3	19.2		71		0.3		0	2	3	7	4	0	0	0	15
	0300		995.2		1009.3	75.9	68.4	63.9	20.3	...	67	...	0.4	...	1	2	2	8	2	3	0	1	12
	1200		992.6		1006.2	92.0	73.5	63.2	19.8		39		0.5		3	2	0	1	3	10	1	0	11
Multan (Surface)	0300	413	995.1	—1.4	1009.4	77.3	68.7	63.5	20.1	+2.9	63	+4	0.5	+0.1	0	2	1	8	5	3	1	0	11
	1200		992.2		1006.0	93.8	73.6	61.7	19.1		36		0.4		1	0	0	0	1	4	0	1	24

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER, 1959.

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										
BAHAWALPUR																							
Leiah	0000	487	*		*	68.2	*	*	*		*		0.3		6	0	0	0	0	0	0	0	25
	0300		992.2	—	1008.8	72.9	67.5	63.7	20.5	—	74	—	0.8	—	6	0	0	6	3	0	0	0	16
	1200		990.4		1006.5	93.8	72.8	59.9	18.0		33		0.4		7	1	0	3	6	1	1	3	9
Khanpur (Surface)	0300	297	998.9	—2.0	1009.3	77.5	69.9	65.5	21.6	+7.2	67	+14	0.1	—0.1	0	3	0	1	5	9	5	1	7
	1200		995.9		1005.9	95.2	75.9	65.8	21.8		38		0.1		4	2	0	0	0	1	10	4	10
,, (P.B.O.)	0000	290	997.6		1007.8	70.4	66.4	63.8	20.3		80		0.1		1	0	1	1	0	7	2	0	19
	0300		999.1	—	1009.3	76.3	69.3	65.1	21.3	—	68	—	0.0	—	0	1	1	0	2	11	2	1	13
	1200		996.2		1006.0	92.9	74.6	64.5	21.0		40		0.3		3	2	0	0	0	3	15	2	6
Bahawalpur	0300	384	996.1	—1.8	1009.4	80.7	69.9	63.6	20.1	+3.6	56	+1	0.3	—0.1	0	0	1	0	5	3	0	0	22
	1200		993.2		1006.0	94.3	76.5	67.5	23.1		42		0.2		1	1	0	0	0	5	1	5	18
Fort Abbas	0000	475	991.6		1008.1	70.9	66.3	62.8	20.4		79		0.1		1	4	3	10	2	7	1	1	2
	0300		993.2	—	1009.5	80.6	70.8	65.1	21.3	—	59	—	0.0	—	1	6		7	5	6	2	0	1
	1200		990.0		1005.8	94.0	(f) 75.7	(f) 65.8	22.0		40		0.1		4	7	0	1	0	8	5	5	1
PESHAWAR																							
Chakdara	0000	2197	933.1		1008.6	63.9	60.5	57.9	16.6		81		0.7		0	0	0	0	0	0	1	0	30
	0300		934.5	—	1009.9	65.2	61.3	58.7	16.9	—	79	—	1.4	—	0	0	0	1	0	0	1	0	29
	1200		931.4		1004.0	82.9	68.2	59.2	17.6		46		1.0		0	0	0	0	0	23	1	0	7
Peshawar	0000	1177	968.5		1009.4	67.9	64.5	61.8	19.0		82		0.3		0	0	0	0	2	3	0	2	24
	0300		970.1	—1.9	1010.8	70.5	65.8	62.7	19.6	+7.7	77	+25	0.7	—0.3	1	0	0	0	2	0	0	1	27
	1200		967.0		1006.5	84.6	71.1	62.9	19.9		49		1.2		4	9	1	0	0	1	0	0	16
Risalpur	0000	1009	974.0		1009.4	67.2	64.4	62.6	19.4		85		0.7		0	9	1	0	0	1	0	0	20
	0300		975.7	—	1010.8	71.7	66.6	63.4	20.0	—	76	—	0.9	—	0	2	1	2	0	3	3	0	20
	1200		972.9		1006.4	87.9	70.5	60.1	17.7		39		1.4		0	7	4	2	1	0	0	0	17
Haripur	0300	1757	949.4		1009.3	72.4	65.6	60.4	18.8		69		1.4	—	0	7	2	2	0	19	0	1	0
	1200		946.3		1004.9	85.3	70.4	63.1	19.3		46		1.0		0	5	3	2	1	18	0	2	0
Campbellpur	0300	1175	969.8		1010.4	71.9	66.3	62.7	19.5	—	73	—	0.7	—	0	0	0	3	1	0	0	0	27
	1200		(a) 966.7		(a) 1006.1	(a) 86.8	(a) 70.9	(a) 61.0	18.6		42		0.5		0	1	0	3	1	1	0	0	25
D. I. KHAN																							
Kohat	0000	1667	953.0		1010.1	71.3	62.4	56.4	15.6		59		0.4		1	0	0	0	0	0	1	23	6
	0300		954.5	—	1011.3	73.4	62.9	55.6	15.3	—	54	—	0.6	—	0	0	0	0	0	0	3	21	7
	1200		951.6		1007.1	85.1	68.1	58.0	16.5		40		1.1		0	2	7	6	1	1	0	1	13
Bannu	0000	1263	(j) 964.2		(j) 1008.0	68.7	64.0	60.6	18.3		77		0.2		1	0	0	0	0	0	0	8	22
	0300		965.3		1008.8	72.3	66.4	62.2	19.4	+7.1	71	+20	0.7	+0.1	3	0	0	0	0	0	2	3	23
	1200		963.0		1005.2	86.7	70.7	60.8	18.4		42		0.9		2	2	4	11	3	1	0	0	8
D. I. Khan	0000	570	988.3		1008.3	70.0	66.2	64.2	20.2		81		0.3		0	7	0	0	0	0	0	0	24
	0300		989.9	—1.5	1009.7	76.1	68.7	65.0	20.4	+5.1	67	+6	0.4	+0.1	0	11	1	0	0	0	0	3	16
	1200		986.6		1005.7	91.3	76.8	69.9	24.9		49		0.3		1	0	1	0	0	0	0	0	29

(*) Data rejected. (f) Mean for 25 days. (a) Mean for 30 days. (j) Mean for 22 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER, 1959.

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										
QUETTA																							
Sibi	0000	441	*		*	*	*	*					*						*				
	0300		994.0	—1.2	1009.4	75.0	64.2	56.1	15.6	+6.0	53	+19	0.3	—0.1	1	2	1	0	1	0	2	1	23
	1200		990.8		1005.4	99.3	70.5	49.2	12.4		19		0.3		1	0	1	5	8	16	0	0	0
KALAT (NORTH)																							
Nokkundi	0000	2229	934.1			*	*	*					0.0		13	5	1	0	0	0	2	10	0
	0300		935.8		1011.4	71.5	52.9	30.9	6.2	—1.8	23	—21	0.0	—0.6	7	9	4	2	1	2	1	5	0
	1200		933.1		1005.5	92.9	62.2	33.0	6.8		13		0.0		6	2	4	6	4	3	1	5	0
KALAT (SOUTH)																							
Turbat	0000	510	*			*	*	*					0.0		1	0	7	6	10	2	4	0	1
	0300		994.0		1011.7	76.5	70.7	68.0	23.0		74		1.0		0	2	11	6	5	4	3	0	0
	1200		990.2		1007.1	99.8	82.6	75.6	30.2		46		0.0		1	1	9	5	5	7	2	1	0
Jiwani	0000	185	1002.4		1008.8	76.4	73.6	72.2	27.0		87		1.4		2	4	3	0	2	4	6	1	9
	0300		1003.8		1010.2	78.2	73.9	71.6	26.7		81		2.2		0	2	4	2	0	2	5	4	12
	1200		1001.7		1008.0	85.9	76.1	70.8	26.3		62		1.7		0	0	2	5	5	17	2	0	0
Pasni	0000	28	1007.4		1008.4	75.6	72.8	70.8	26.3		87		1.3		1	2	3	0	0	0	8	6	11
	0300		1009.1	—2.1	1010.1	77.0	73.1	70.6	26.0	+4.3	82	+4	1.5	—0.2	2	3	4	1	0	1	7	4	9
	1200		1006.3		1007.2	87.5	77.6	72.3	27.8		62		0.4		0	0	1	4	6	18	2	0	0
Ormara	0000	15	1007.8		1008.3	77.0	74.8	73.3	28.4		90		3.0		1	0	3	1	0	0	9	1	16
	0300		1009.2		1009.7	78.9	75.5	73.5	28.6	+6.0	85	+6	1.9	—0.1	0	0	5	2	0	0	10	0	14
	1200		1006.3		1006.8	87.2	77.7	73.1	28.1		63		0.3		0	0	0	2	4	6	17	1	1
Lasbela	0000	292	*			*	*	*					1.3		0	0	0	4	0	1	1	0	25
	0300		1000.0	—1.7	1010.1	80.0	73.9	70.9	25.9	+7.2	73	+11	0.5	—0.9	0	0	0	2	1	4	1	0	23
	1200		995.0		1004.7	98.0	78.5	68.1	24.4		39		0.0		0	0	1	4	1	7	1	0	17
FEDERAL CAPITAL AREA																							
Karachi (Manora)	0000	13	1007.6		1008.1	78.7	75.1	72.9	28.1		83		1.9		1	2	0	0	0	2	8	2	16
	0300		1009.1	—2.2	1009.6	79.8	76.6	74.1	29.8	+5.4	86	+6	1.4	0.0	0	5	0	0	0	3	12	2	9
	1200		1006.9		1007.3	86.5	80.8	78.4	33.3		78		1.1		0	0	0	0	1	5	22	3	0
Karachi (Mauripur)	0000	52	1006.3		1008.1	75.7	74.1	73.4	28.1		93		1.0		2	3	1	0	0	1	7	3	14
	0300		1007.7		1009.5	77.6	74.9	73.5	28.3		88		1.5		0	3	3	0	0	1	7	3	14
	1200		1005.4		1007.1	87.4	79.0	75.0	30.0		67		1.1		0	0	0	0	2	16	10	3	0
Karachi (City)	0300	20	1008.9		1009.6	80.2	75.8	73.7	28.5		81		1.2		2	1	3	0	1	2	15	0	7
	1200		1005.8		1006.5	85.8	78.7	75.4	30.3		72		0.5		1	0	0	0	0	19	11	0	0
Karachi (P.A.F.) (x)	0000	38																					
	0300																						
	1200																						
Karachi (Airport)	0000	73	1005.7		1008.3	74.7	72.5	71.2	26.3		89		0.8		2	0	0	0	0	2	4	1	22
	0300		1007.3		1009.9	77.2	73.3	71.4	26.2		82		1.4		2	0	0	0	0	0	9	0	20
	1200		1004.8		1007.3	88.1	76.4	70.8	25.7		56		1.2		0	0	1	0	5	23	2	0	0
HYDERABAD																							
Badin	0000	31	*			78.2	75.9	74.9	29.5		90		0.0						*				
	0300		*			79.2	77.0	75.9	30.7	+9.4	90	+22	0.0	—1.0					*				
	1200		*			93.1	77.7	70.2	25.5		48		0.0						*				
Nagarparkar	0000	178 (Prov.)	*			83.6	74.1	68.1	24.5		62		0.0		5	1	2	0	2	2	0	4	15
	0300		*			86.0	75.9	68.2	26.0		61		0.3		1	1	0	1	0	2	0	3	23
	1200		*			93.7	79.0	72.8	27.1		50		0.5		1	0	1	5	0	2	1	5	16

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TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER, 1959.

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 Directions Number of Observations From — N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	6	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	1005.6		1007.5	73.8	70.9	69.2	24.5		86		0.3		2	2	1	2	7	5	0	0	12
	0300		1007.2		1009.1	77.9	72.9	70.0	25.4		78		0.5		1	1	1	4	14	6	0	0	4
	1200		1004.1		1005.9	94.4	75.0	63.1	20.8		37		1.6		1	1	0	1	1	13	4	10	0
Chhor	0000	19	1007.2		1007.9	73.0	70.7	69.4	24.6		89		0.6		0	0	0	0	0	6	0	0	25
	0300		1009.0		1009.7	78.1	72.8	69.9	25.2		76		1.1		0	2	1	0	1	14	0	0	13
	1200		1005.8		1006.4	92.8	75.1	65.3	21.7		42		2.1		0	2	1	0	2	20	2	1	3
Hyderabad	0000	98	1004.5		1007.9	76.5	72.4	70.2	25.3		81		0.5		1	0	0	0	4	5	0	0	21
	0300		1006.1	—1.6	1009.5	78.7	73.5	70.8	25.9	+7.4	77	+16	0.7	0.2	1	0	0	0	6	6	0	0	18
	1200		1003.5		1006.8	93.3	74.8	64.6	21.1		39		0.8		1	1	0	1	13	7	0	0	8
KHAIRPUR																							
Padidan	0000	153	1001.9		1007.3	72.0	67.7	64.8	21.2		79		0.2		1	1	1	15	2	1	0	0	10
	0300		1003.8		1009.1	77.8	70.6	66.5	22.3		68		0.3		1	2	0	17	5	0	0	1	5
	1200		1001.0		1006.1	96.7	72.2	56.3	15.9		27		0.3		4	2	0	5	11	4	2	2	1
Nawabshah	0000	124	1003.6		1008.0	73.2	70.0	68.1	23.7		84		0.1		2	0	0	0	15	0	0	0	14
	0300		1005.3		1009.6	78.4	73.4	70.6	25.8		78		0.5		1	0	0	0	15	0	1	0	14
	1200		1002.6		1006.9	95.3	77.3	67.7	23.8		42		0.5		3	0	0	0	17	4	0	0	7
Sukkur	0300	221	1001.3	—2.1	1008.9	77.3	71.5	68.3	23.7	+6.1	74	+15	0.2	0.0	0	0	0	5	7	4	0	0	15
	1200		998.2		1005.6	93.8	76.0	66.5	22.6		42		0.3		8	3	0	0	2	3	7	7	1
Kashmore*	0000	255																					
	0300																						
	1200																						
Jacobabad	0000	183	1001.1		1007.5	74.8	69.2	66.0	21.8		74		0.1		0	0	11	9	3	1	1	0	6
	0300		1002.9	—1.6	1009.2	78.1	71.3	67.3	23.1	+6.7	70	+16	0.2	—0.1	0	1	10	8	2	0	1	1	8
	1200		1000.0		1006.1	95.6	74.6	61.0	19.7		35		0.1		0	0	0	11	15	4	1	0	0
JUNAGADH																							
Veraval (x)	0000	26																					
	0300																						
	1200																						
AFGHANISTAN																							
Jalalabad(x)	0300	1950																					
	1200																						
ARABIA																							
Muscat (x)	0300	20																					
	1200																						
HILL STATIONS: KASHMIR																							
Srinagar (x)	0000																						
	0300																						
	1200																						

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER, 1959.

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	M	%	%	oktas										
Gulmarg (x)	0300	8709																					
	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	—																					
	0300																						
	1200																						
Misgar	0000	10190	*		*	36.6	30.2	19.8	3.7		50		1.7		0	0	0	0	0	0	0	0	31
	0300		700.8	...	3113.5	44.6	35.1	21.9	4.0	...	40	...	1.6	...	0	0	0	0	0	0	0	0	31
	1200		698.1		3081.7	55.0	42.1	27.2	5.2		34		2.5		0	0	2	0	0	0	2	0	27
Aliabad (x)	0300	6850																					
	1200																						
Gilgit (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	785.0		1498.4	53.2	46.8	39.8	8.7		62		2.0		0	0	0	5	0	2	10	12	2
	0300		786.5	—0.7	1510.6	55.7	49.7	44.0	10.0	+2.9	66	+20	2.3	+1.2	0	0	2	5	0	0	11	9	4
	1200		785.4		1494.5	59.9	54.6	50.7	12.7		72		3.4		0	1	2	2	0	0	9	10	7
PESHAWAR																							
Drosh	0000	4806	853.8		1502.2	62.4	53.1	44.2	10.1		52		0.4		0	0	0	0	0	4	0	0	27
	0300		854.9	—3.0	1512.7	61.0	52.1	43.4	9.7	+1.8	53	—4	0.8	—0.6	0	0	0	2	0	0	0	0	29
	1200		850.1		1564.5	78.6	60.9	44.6	11.4		34		2.2		0	1	0	0	1	26	0	0	3
Cherat	0000	4272	*		*	61.4	*	*	*		*		0.5		2	4	0	7	15	0	0	0	3
	0300		870.9	—0.7	1505.1	63.5	*	*	*				0.7	—0.2	5	0	0	3	5	1	2	2	13
	1200		869.4		1492.8	72.9	*	*	*		*		0.9		2	0	0	3	20	1	0	0	5
Kakul	0000	4214	870.8		1494.2	61.0	54.5	48.9	11.9		65		1.2		8	9	3	1	0	1	1	7	1
	0300		872.6	...	1506.5	65.3	57.5	51.3	13.0	...	61	...	2.1	...	4	3	1	1	2	1	0	9	10
	1200		870.9		1492.9	72.2	61.0	52.9	13.8		51		2.1		1	0	0	9	14	6	0	1	0
Balakot	0000	3226	(x)		(x)	60.3	57.5	55.1	14.9		84		1.3		2	1	0	0	0	0	0	2	26
	0300		(x)	...	(x)	*	*	*	*	...	*	...	2.0	...	0	0	0	0	0	0	0	0	31
	1200		(x)		(x)	74.2	*	*	*		*		2.2		1	0	0	0	1	1	0	0	28
Landikotal	0000	3503	892.4		1476.9	60.2	56.5	53.5	14.1		79		0.1		0	0	0	0	0	0	0	0	31
	0300		893.8	...	1494.5	67.0	59.4	53.8	13.9	...	61	...	0.5	...	0	1	0	0	0	0	0	0	30
	1200		891.2		1479.3	77.4	63.6	53.1	14.3		44		1.0		0	2	0	19	7	0	0	0	3

(x) Data not available. * Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER, 1959.

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.	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										
D. I KHAN																							
Parachinar	0000	5673	*		*	55.1	*	*	*		*		0.5		18	0	0	1	0	0	0	0	12
	0300		*	...	*	57.4	51.4	45.7	10.8	+3.8	67	+22	0.5	—0.4	0	0	0	0	0	0	0	0	31
	1200		*		*	73.2	*	*	*		*		1.3		0	0	0	30	0	0	0	0	1
Miranshah	0000	3026	906.2		1461.9	63.4	57.2	52.0	13.4		68		0.1		0	0	0	0	0	0	0	0	31
	0300		908.9	...	1491.7	67.9	60.0	52.9	14.5	+7.3	62	+19	0.3	—0.2	0	0	0	0	0	0	0	0	31
	1200		906.2		1479.5	81.4	67.1	56.6	16.8		45		0.6		0	12	0	0	0	0	0	0	19
Wana	0300	4503	862.1	...	1491.4	59.2	49.3	38.4	8.0	+1.5	46	0	0.7	+0.4	0	0	0	0	6	6	0	0	19
	1200		859.4		1469.4	79.9	56.4	27.3	6.1		17		0.4		0	0	10	14	6	1	0	0	0
QUETTA																							
Fort Sandeman (x)	0300	4614																					
	1200																						
Hindubagh	0000	5909	817.7		1473.4	53.6	43.4	31.2	6.0		44		0.1		0	0	0	0	0	2	18	3	8
	0300		818.8		1480.7	58.2	46.8	34.2	6.9		41		0.1		2	0	0	0	0	5	14	7	3
	1200		815.4		1443.9	78.2	59.3	44.6	10.5		31		0.6		3	0	1	0	0	10	10	7	0
Loralai	0000	4699	856.2		1491.0	55.5	45.0	28.8	6.0		39		0.0		0	0	0	0	0	4	17	9	1
	0300		857.2		1501.5	57.8	45.3	30.0	5.3		33		0.2		0	0	0	0	0	5	4	22	0
	1200		854.6		1477.8	79.4	61.4	48.1	11.3		33		1.0		0	0	0	24	5	1	0	0	1
Harnai (*)	0300																						
	1200																						
Quetta (Samungli)	0000	5213	841.7		1505.8	44.3	39.1	32.2	6.3		63		0.0		0	0	6	12	0	1	0	0	12
	0300		842.8		1516.0	50.5	42.9	34.0	6.7		54		0.0		0	0	6	7	0	0	0	1	17
	1200		840.3		1485.5	78.7	55.7	33.0	6.9		21		0.3		2	0	0	1	0	3	4	19	2

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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	0300	5490	833.7	—2.4	1505.8	59.8	48.8	37.5	7.8	+1.7	45	—4	0.0	—0.5	0	0	0	0	5	0	0	1	25
	1200		831.6		1481.3	77.5	57.7	42.0	9.2		28		0.2		2	0	0	1	0	1	5	6	16
Chaman	0000	4311	868.4		1493.5	61.3	45.8	22.1	4.3		23		0.0		0	1	20	3	0	0	0	0	7
	0300		869.5	—2.0	1506.0	65.0	49.7	30.2	6.1	+0.2	29	—4	0.0	—0.6	0	0	14	10	2	0	0	1	4
	1200		867.6		1492.9	82.8	62.5	47.9	11.1		29		0.0		2	0	0	0	2	6	16	5	0
KALAT (NORTH)																							
Kalat	0000	6616	800.8		1522.2	44.1	39.2	32.2	6.4		66		0.0		0	0	0	6	24	0	0	0	1
	0300		801.8	—0.6	1520.0	57.0	47.2	37.4	7.6	+1.7	48	+3	0.0	—0.4	0	0	0	6	22	0	0	0	3
	1200		800.0		1486.8	72.3	56.6	43.0	10.1		37		0.2		10	0	0	0	0	1	1	17	2
Nushki	0000	3416	*			67.7	55.6	43.5	10.2		45		(x)		1	0	25	3	0	0	1	1	0
	0300		*			73.5	60.5	50.2	12.7		45		(x)		2	0	21	2	0	0	0	1	5
	1200		*			88.8	64.3	47.0	10.7		23		(x)		2	0	2	0	1	0	2	21	3
Dalbandin	0000	2785	916.2		1477.5	59.8	46.2	27.5	5.2		30		0.0		3	7	5	0	0	0	2	4	10
	0300		917.9	—1.1	1493.3	60.5	46.5	27.4	5.2	—0.6	29	—9	0.1	—0.5	3	11	1	1	0	1	1	0	13
	1200		914.8		1501.5	90.4	61.5	33.1	7.0		14		0.2		1	1	6	15	0	3	1	2	2
KALAT (SOUTH)																							
Panjgur	0000	3177	904.6		1494.3	64.4	51.7	36.9	8.0		38		0.2		10	15	0	0	0	0	0	4	2
	0300		905.6	—0.8	1505.4	65.0	51.5	36.3	7.6	—0.2	36	—10	0.0	—0.4	5	15	0	0	0	0	0	0	11
	1200		903.4		1505.5	87.5	60.4	33.0	7.0		15		0.5		10	2	0	2	0	6	0	9	2
AFGHANISTAN																							
Kabul (x)	0300	5955																					
	1200																						
Kandahar	0300	3462	898.4	...	1512.5	52.4	47.6	42.7	9.4	...	69	...	0.3	...	0	0	1	1	1	0	0	0	28
	1200		895.7		1508.6	76.2	64.5	56.9	16.2		51		0.5		0	0	0	0	0	2	2	2	25

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF OCTOBER, 1959.

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	87.3		90	10 days	75.0		70	4 days	15.52		7.25	30	13		x		12	0	26	0	0
Cox's Bazar (P. T.)	86.7	—0.4	90	5 days	74.4	+0.8	69	31	9.2	+1.86	3.99	30	9	+1.5	3.6	+1.9	7	0	0	0	0
Chittagong (Patenga)	86.8		90	4 days	74.8		70	29,31	13.09		8.85	30	10		x		10	0	7	0	0
Chittagong (P. T.)	86.0	—0.9	90	4 days	74.5	+1.1	69	31	16.43	—9.34	12.29	30	9	—2.0	3.2	+0.1	5	0	0	0	0
Maijdi Court	86.0	—0.6	90	23,24	75.0	—0.6	68	30	15.15	—7.02	6.85	30	14	+6.3	x		1	0	0	0	0
Comilla	85.8	—2.4	91	22	74.5	+1.1	70	30,31	19.14	+12.42	5.12	30	12	+5.4	x		0	0	0	0	0
Brahmanbaria	84.9	—4.3	92	9	74.5	+0.3	69	30,31	14.90	+8.56	3.45	13	18	+11.1	2.9		4	0	0	0	0
Srimangal	85.7	—3.3	91	9	70.9	+0.7	58	19	11.74	+4.68	3.11	12	14	+5.9	x		16	0	0	0	0
Sylhet (P.B.O.)	82.8		89	8.9	71.9		65	30	18.90		3.91	11	16		x		0	0	11	0	0
DACCA DIVISION																					
Mymensingh	83.4	—3.7	90	9,20	73.0	—0.9	65	30	18.55	+12.23	3.82	3	16	+9.9	1.3	+0.4	4	0	0	0	0
Narayanganj	85.5	—2.7	92	21	75.5	+0.2	69	30,31	23.80	+18.53	4.79	4	12	+6.0	2.6	+1.1	*	0	0	0	0
Dacca (Tejgaon)	84.5		90	22	73.8		68	30,31	22.26		4.21	3	15		3.3		13	0	0	0	0
Faridpur	84.6	—2.7	90	28	73.0	—1.1	66	31	27.40	+22.55	6.62	5	18	+12.4	3.1	+1.1	11	0	0	0	0
Barisal	85.5	—2.1	90	19.21	76.1	+1.2	69	30,31	23.55	+17.41	4.02	1	14	+7.1	*		1	0	3	0	0
RAJSHAHI DIVISION																					
Khulna	85.6	—2.5	91	19,22	75.8	+0.8	68	31	20.98	+16.72	7.00	1	9	+2.8	x		0	0	0	0	0
Satkhira	86.1	—3.6	91	21	75.3	+1.2	66	31	14.52	+10.02	5.63	1	10	+4.3	0.1	—0.9	0	0	0	0	0
Jessore	85.5	—3.5	91	22	74.8	+2.3	66	31	20.04	+15.45	7.28	1	13	+7.2	3.2	+2.0	0	0	2	0	0
Pabna	85.7	—4.6	92	22	74.3	+1.9	68	30	36.21	+31.82	9.12	4	12	+6.5	x		13	0	0	0	0
Serajganj	85.4		91	22	74.1		68	30	23.51	+18.80	5.64	2	15	+9.8	2.4		7	0	0	0	0
Rajshahi									20.07	+16.30	6.73	2	9	+4.5			0	0	0	0	0
Bogra (P.B.O.)	83.5	—4.3	90	9	74.1	+1.0	67	30	24.95	+19.82	6.85	2	11	+5.5	2.7	+1.6	5	0	0	0	0
Dinajpur	85.3	—2.1	92	1	72.6	+0.5	66	30	14.25	+9.50	6.07	2	7	+2.5	x		2	0	0	0	0
Rangpur	84.0		90	1,9,21	72.8		69	30	23.07	+17.25	5.80	4	13	+8.5	2.4		2	0	6	0	0

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF OCTOBER, 1959.

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 Figures 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.	92.0	—2.0	98	3	68.3	+8.5	58	31	0.42	+0.18	0.30	28	1	+0.5	1.2	+0.2	4	0	0	0	0
" (Cantt.)	91.0	—	97	2	68.3	—	59	29,30,31	0.33	—	0.25	29	1	—	3.4	—	4	0	0	0	0
" (Walton)	93.4	—	100	12	68.6	—	59	29,31	0.37	—	0.26	28	1	—	3.9	—	5	0	0	0	0
Sialkot	89.1	—2.3	97	2	69.5	+7.4	60	29,31	3.21	+2.97	7.55	3	6	+5.2	1.4	+0.3	0	0	0	0	0
RAWALPINDI																					
Jhelum	90.8	—	100	2	66.7	—	57	30,31	3.31	—	1.27	6	7	—	1.0	—	6	1	0	0	1
Chaklala	86.6	—	94	2	61.8	—	50	29,30,31	1.89	—	1.41	6	3	—	2.3	—	4	0	0	0	0
Rawalpindi	88.4	—0.2	94	2,3	63.7	+6.7	52	29,30,31	3.21	+2.61	2.70	6	3	+1.6	1.9	+0.7	5	0	0	0	0
Khushab	93.1	—0.5	102	2,3	68.5	+5.1	59	31	2.87	+2.72	2.15	6	2	+1.6	(b) 2.8	—0.1	0	0	0	0	0
Sargodha	92.1		100	2,3	67.5		57	30	1.18		1.18	28	1	—	1.7	—	4	0	0	0	1
MULTAN																					
Lyallpur	93.6	+0.4	99	2,3,16	69.3	+6.9	59	30	0.98	+0.86	0.98	28	1	+0.6	1.9	+0.5	1	0	0	0	0
Montgomery	95.3	+0.3	101	4,15	69.4	+5.9	58	30	0.07	—0.01	0.05	28	0	—0.3	1.4	—0.9	0	0	0	0	0
Multan (P.B.O.)	96.4	—	104	3	69.2	—	57	29	0.00	—	0.00	—	0	—	2.7	—	1	0	0	0	0
" (Surface)	96.6	+2.2	104	3	72.7	+9.0	62	29	0.00	—0.08	0.00	—	0	—0.2	1.7	+0.6	2	0	0	0	0
BAHAWALPUR																					
Leiah	95.8	—	103	2,23	67.4	—	58	30,31	0.00	—	0.00	—	0	—	*	—	0	0	0	0	0
Khanpur (Surface)	98.4	+1.5	105	3	71.3	+7.4	62	29	0.00	—0.02	0.00	—	0	—0.1	2.8	—0.8	0	0	0	0	0
" (P.B.O.)	96.2	—	102	2,3	68.2	—	59	29,30	0.00	—	0.00	—	0	—	3.1	—	0	0	0	0	0
Bahawalpur	(b) 97.5	+1.9	105	3	70.0	+7.5	60	30	0.00	—0.06	0.00	—	0	—0.2	(a) 1.8	—0.2	0	0	0	0	0
Fort Abbas	99.7	—	105	4	68.8	—	60	30,31	0.00	—	0.00	—	0	—	2.7	—	0	0	0	0	0
PESHAWAR																					
Chakdara	85.8	—	93	2,3	60.6	—	51	30	1.18	—	1.08	6	2	—	3.2	—	1	0	0	0	0
Peshawar	88.7	+0.9	97	3	66.5	+6.0	55	30	1.30	+1.07	1.30	6	1	+0.4	1.1	0.0	2	0	1	0	0
Risalpur	91.2	—	102	3	64.5	—	52	31	0.57	—	0.49	6	1	—	1.6	—	2	0	0	0	2
Haripur	90.3	—	97	2	66.1	—	58	31	2.01	—	1.78	6	2	—	4.1	—	3	0	0	0	0
Campbellpur	(a) 90.2	—	98	2,3	65.3	—	53	30,31	0.60	—	0.40	6	3	—	(d) 0.4	—	0	0	0	0	0
D. I. KHAN																					
Kohat	89.9	—	99	3	70.1	—	59	28,29	1.63	—	1.19	6	2	—	3.5	—	4	0	0	0	0
Bannu	90.5	—0.1	98	3	67.8	+5.9	56	30	0.83	+0.79	0.50	28	2	+1.9	1.5	—	2	0	0	0	0
D. I. Khan	94.7	+1.4	102	1,2	68.0	+6.3	58	30	1.15	+1.04	0.80	28	2	+1.7	1.5	+0.7	0	0	0	0	0

(x) Data not available. (a) Mean for 30 days. (b) Mean of 29 days. * (d) Mean for 27 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF OCTOBER, 1959.

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	101.6	+4.0	108	2,3,11	71.3	+5.8	61	26	0.00	0.00	0.00		0	0.0	1.5	−0.8	0	0	0	0	0
KALAT (NORTH)																					
Nokkundi	95.9	+3.7	104	3,4	*				0.00	0.00	0.00		0	0.0	x		0	0	0	0	0
KALAT (SOUTH)																					
Turbat	102.2		110	11	x				0.00		0.00		0		x		0	0	0	0	0
Jiwani	90.5		100	23	74.3		69	21,23	0.00		0.00		0		6.8		0	0	2	1	0
Pasni	92.2	+1.7	104	2	73.0	+5.7	61	25	0.00	0.00	0.00		0	0.0	7.5	+2.4	0	0	3	0	0
Ormara	93.3	+4.1	100	23	75.1	+4.3	70	30,31	0.00	0.00	0.00		0	0.0	7.3	0.0	0	0	0	0	0
Lasbela	102.6	+2.9	108	9,20,21	72.3	+9.0	66	23	0.00	−0.01	0.00		0	0.0	x		0	0	0	0	0
FEDERAL CAPITAL AREA																					
Karachi (Manora)	89.1	+1.8	97	10	77.1	+3.4	73	29	0.00	−0.02	0.00		0	−0.1	x		0	0	0	0	0
Karachi (Mauripur)	91.1		102	10	74.6		70	23	0.00		Tr	4,5	0		4.5		0	0	1	0	0
Karachi (City)	91.6		102	9	75.4		70	28	0.00		0.00		0		3.9		0	0	0	0	0
Karachi (P.A.F.)*...																					
Karachi (Airport)	93.4		103	10	73.0		67	24,31	0.00		Tr	4,5	0		4.6		0	0	5	0	0
HYDERABAD																					
Badin	97.3	+1.3	104	21,22,23	76.5	+6.6	69	30,31	0.00	−0.03	0.00		0	−0.1	*		0	0	0	0	0
Nagarparkar	95.7		99	23	79.8		77	1,2	0.32		0.32	1	1		x		0	0	0	0	0
Umarkot	97.7		102	11	71.9		64	28,30	0.85		0.56	18	2		3.2		0	0	0	0	0
Chhor	97.3		104	21	71.3		61	30	0.15		0.15	18	1		2.4		1	0	0	0	0
Hydera bad	97.2	−0.6	104	11,21,22	75.5	+5.3	69	31	0.00	−0.03	0.00		0	−0.1	3.1	−1.3	0	0	0	0	0
KHAIRPUR																					
Padidan	99.8		104	3,11	70.3		62	21,26	0.00		0.00		0		4.4		0	0	0	0	0
Nawabshah	98.8		104	22	71.5		62	29	0.00		0.00		0		3.1		0	0	0	0	0
Sukkur	99.1	+3.1	105	2	74.0	+5.1	66	29	0.00	−0.01	0.00		0	0.0	2.2	−0.3	0	0	0	0	0
Kashmore	*				*				0.00		0.00		0		*		0	0	0	0	0
Jacobabad	98.3	+0.8	104	3	73.1	+7.5	66	25,26,29	0.00	−0.03	0.00		0	−0.1	3.5	+0.7	0	0	0	0	0
JUNAGADH																					
Veraval (x)																					
AFGHANISTAN																					
Jalalabad (x)																					
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.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF OCTOBER, 1959.

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	64.3	—	78	1,5	*	—	—	—	0.04	—	0.02	21,27	0	—	1.7	—	0	0	0	0	0
Aliabad (x)																					
Gilgit (x)																					
RAWALPINDI																					
Murree	64.3	—3.3	69	1,10,13	50.8	+1.5	40	29	2.81	+1.25	1.41	6	5	+2.3	5.1	+1.5	4	0	4	0	0
PESHAWAR																					
Drosh	88.8	+12.1	103	3	59.9	+6.7	49	28	0.26	—1.01	0.18	6	1	—2.1	3.6	+1.6	3	0	0	0	0
Cherat	78.6	+2.0	87	3	59.0	+0.6	49	28,29	1.13	+0.57	0.57	29	2	+0.7	7.1	+2.0	1	0	2	0	0
Kakul	78.6	—	85	2	59.8	—	48	29	1.27	—	0.88	6	2	—	x	—	6	0	0	0	0
Balakot	81.7	—	88	2,16	57.4	—	48	29,30	2.50	—	2.00	6	2	—	1.6	—	4	0	0	0	0
Landikotal	83.4	—	94	2	(*)	—	—	—	0.46	—	0.44	6	1	—	1.8	—	2	0	0	0	0
D. I. KHAN																					
Parachinar	77.9	+3.7	85	3	52.8	+4.1	43	29,30,31	0.31	—0.64	0.21	6	2	—0.5	1.9	—0.3	0	0	0	0	0
Miransahah	85.4	+1.8	94	2,3	61.7	+3.4	51	31	1.44	+1.41	1.35	6	1	+1.0	2.2	—1.7	0	0	0	0	0
Wana	83.2	+3.2	90	1,3,4	51.9	+4.9	42	31	0.16	+0.04	0.16	28	1	+0.7	2.3	—	1	0	0	0	0
QUETTA																					
Fort Sandemand																					
Hindubagh	*				*				0.00		0.00		0		5.8		0	0	0	3	0
Loralai	84.6		92	2	51.5		43	31	0.00	—0.11	0.00		0	—0.3	3.2		0	0	0	0	0
Harnai									0.15	—0.08	0.15	28	1	+0.6	x		0	0	0	0	0
Samungli	81.3		89	2	40.8		32	25	0.00		0.00		0		3.3		0	0	0	0	0
Quetta	80.5		87	2	42.8		35	30	0.00		0.00		0		0.7	—0.8	0	0	6	0	0
Chaman	85.6	+5.8	93	1,2	58.6	+5.1	50	28	0.00	—0.16	0.00		0	—0.2	x		0	0	0	0	0
KALAT (NORTH)																					
Kalat	78.7	+3.4	85	4,5	43.1	+2.1	37	25,30	0.00	—0.09	0.00		0	—0.2	x		0	0	0	0	0
Nushki	91.6		98	11	65.4		57	29,30	0.00		0.00		0		x		0	0	0	0	1
Dalbandin	92.8	+3.8	99	2,3	55.7	+4.8	47	23,30	0.05	+0.03	0.05	31	0	—0.1	2.9	+0.3	1	0	0	1	0
KALAT (SOUTH)																					
Panjgur	88.6	+1.4	96	3	59.8	+4.4	51	30	0.00	—0.01	0.00		0	—0.1	x		0	0	0	0	0
AFGHANISTAN																					
Kabul																					
Kandahar	82.3	—	90	10	48.0	—	40	30	0.00	—	0.00	—	0	—	0.3	—	0	0	0	0	0

(x) Data not available. * Data rejected.

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PAKISTAN WEATHER REVIEW, 1959

MONTHLY WEATHER REPORT

November

(*PUBLISHED BY THE AUTHORITY OF GOVERNMENT OF PAKISTAN*)

Chief Features:

1. Pronounced spell of wet weather over West Pakistan during the first week.

2. Dry Weather over East Pakistan throughout the month.

West Pakistan

Three Western Disturbances moved in close succession across the northern parts of the region during the first week while the secondaries associated with the first two affected the southern parts of West Pakistan. They caused scattered rainfall in Quetta and Kalat Divisions on the 1st day and a spell of wet weather practically throughout West Pakistan with locally moderate to heavy rainfall mainly in the northern parts during the next six days. As a result of the heavy rains air services were adversely affected.

Thereafter, except for scattered light rain or drizzle in Peshawar and Lahore divisions on the 15th and the 16th in association with the passage of a western disturbance across the northern of the region, the weather was dry till the 24th.

Three western disturbances moved in close succession across D. I. Khan division and one across Kalat division during the concluding week of the month. They caused scattered rain or thundershowers in Kalat, Quetta, D. I. Khan and Peshawar divisions between the 25th and the 30th and in Rawalpindi division only on the 27th.

Principal amounts of rainfall during the month were:—Ormara and Karachi Airport 2" each on the 2nd; Harnai 3" and Fort Sandeman and Loralai 2" each on the 5th; Cherat, Parachinar and Landikotal 3" each on the 6th and Jhelum 3" on the 7th.

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

The mean maximum temperatures were below normal over the whole region outside Federal Capital Area and Hyderabad division where they were normal.

The mean minimum temperatures were below normal in Rawalpindi division, normal in Peshawar division and in the Federal Capital Area and above normal over rest of the region.

The mean relative humidity was normal in the Federal Capital Area and in excess elsewhere.

The mean cloud amount was in excess over the whole region.

East Pakistan

Weather was dry over the region throughout the month.

The total rainfall during the month was in large defect over the whole region.

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

The mean cloud amount was in defect over the whole region.

Table I contains the divisional means of rainfall, temperature, relative humidity and the cloud amount for the 15 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, 1959.

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	0.00	1.78	—1.78	—100	—1.2	—1.9	—1.3	—3	—1.7
Dacca	0.00	1.12	—1.12	—100	—0.1	—0.6	—0.8	—3	—1.1
Rajshahi	0.00	0.70	—0.70	—100	—0.4	+0.3	—0.2	—3	—1.4
Mean	0.00	1.15	—1.15	—100	—0.6	—0.9	—0.7	—3	—1.4
WEST PAKISTAN									
Kashmir (x)									
Lahore	2.11	0.13	+198	+1523	—5.4	+6.0	+4.1	+17	+0.9
Rawalpindi	2.82	0.36	+246	+683	—5.2	—2.1	+3.3	+26	+1.5
Multan	0.66	0.07	+0.59	+843	—3.0	+4.9	+2.8	+21	+0.9
Bahawalpur	0.09	0.01	+0.08	+800	—2.9	+4.9	+3.6	+9	+1.7
Peshawar	4.78	0.34	+444	+1306	—5.2	—1.7	+3.1	+24	+1.8
D. I. Khan	3.44	0.16	+328	+2050	—4.9	+2.6	+3.6	+25	+1.5
Quetta	4.03	0.14	+3.89	+278	—3.1	+2.7	+3.7	+19	+1.6
Kalat	0.85	0.07	+0.78	+1114	—2.4	+2.4	+2.0	+9	+1.2
Federal Capital Area	1.61	0.08	+1.53	+1913	—1.0	—1.2	—0.8	—3	+1.0
Hyderabad	0.63	0.12	+0.51	+425	—1.6	+2.1	+3.4	+18	+0.8
Khairpur	0.51	0.02	+0.49	+2450	—3.0	+2.9	+2.7	+15	+1.7
Mean	1.71	0.17	+154	+906	—3.1	+2.4	+2.9	+15	+1.3
Junagad (x)									

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1959.

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	1006.5		1013.9	60.6	60.4	60.1	17.9		99		6.9		9	0	0	0	1	0	0	0	20
	0300		1008.5		1016.0	66.1	65.6	64.3	21.3		97		0.6		8	0	2	0	5	0	0	0	15
	1200		1005.0		1012.2	74.8	68.6	65.3	21.1		71		0.2		9	0	0	0	0	0	6	0	15
Cox's Bazar (P.T.)	0300	38	1013.0	+0.3	1014.3	76.3	69.5	65.6	21.5	—3.4	70	—7	1.0	—1.7	10	10	6	1	0	0	0	3	0
	1200		1010.3		1011.7	75.6	69.4	65.8	21.8		71		1.7		4	1	1	0	0	0	5	17	2
Chittagong (Patanga)	0000	20	1012.3		1013.0	65.0	64.1	63.3	20.0		95		0.8		0	22	0	0	0	0	0	0	8
	0300		1014.2		1014.9	73.5	68.7	65.6	21.8		77		0.6		0	30	0	0	0	0	0	0	0
	1200		1011.1		1011.8	75.0	68.7	64.6	21.1		70		0.7		4	1	0	0	0	2	7	11	5
Chittagong (P.T.)	0300	46	1013.3	+0.2	1014.9	74.5	69.3	66.9	22.2	—1.2	77	—4	0.4	—2.2	7	13	6	0	0	0	0	0	4
	1200		1010.1		1011.7	73.4	67.8	64.6	20.7		74		0.3		7	2	0	0	0	0	11	1	3
Maijdi Court	0000	25	1012.2		1013.1	65.5	64.6	63.8	20.2		94		0.4		0	0	0	0	0	0	0	0	30
	0300		1014.2	+0.3	1015.1	75.9	69.9	66.5	22.1	—1.6	73	—7	0.1	—1.7	3	0	0	0	0	0	0	0	27
	1200		1011.0		1011.9	74.3	71.2	69.1	24.8		86		0.2		0	0	0	0	1	0	0	0	29
Comilla	0000	29	1012.0		1013.0	64.7	63.7	62.9	19.7		94		0.1		0	0	0	0	0	0	0	0	30
	0300		1013.4	—0.5	1014.4	74.9	69.3	66.7	21.9	—1.3	75	0	0.3	—1.4	0	0	0	0	0	0	0	0	30
	1200		1010.6		1011.6	76.3	70.9	67.5	23.4		75		0.0		0	0	0	0	0	0	0	0	30
Brahmanbaria	0000	32	1012.1		1013.2	67.2	65.7	65.0	21.0		92		0.7		0	0	0	0	0	0	0	0	30
	0300		1014.4		1015.5	76.4	70.7	67.5	23.1	0.0	74	+4	0.7		2	8	0	1	1	0	0	0	18
	1200		1010.8		1011.9	75.4	70.9	68.4	23.2		79		0.6		0	1	0	0	0	0	0	0	29
Srimangal	0000	69	1010.5		1013.0	57.2	56.6	56.1	15.4		96		0.8		0	0	0	0	0	0	0	0	30
	0300		1012.7	—0.1	1015.2	73.4	68.3	65.1	21.3	—0.1	76	—7	0.4	—1.6	0	0	0	0	0	0	0	0	30
	1200		1009.2		1011.7	71.8	68.7	66.7	22.6		85		0.4		0	0	0	0	0	0	0	0	30
Sylhet (P.B.O.)	0000	115	1008.7		1012.8	63.1	61.9	59.4	18.4		93		1.2		0	0	25	0	0	0	0	0	5
	0300		1010.8		1014.8	72.3	67.3	64.1	20.5		76		0.9		0	0	30	0	0	0	0	0	0
	1200		1007.4		1011.4	72.2	67.8	63.8	21.3		78		0.5		0	0	0	0	0	0	3	0	27
Dacca Division																							
Mymensingh	0000	62	1011.1		1013.3	65.3	63.7	62.4	19.4		91		0.9		0	0	0	1	0	0	2	0	27
	0300		1013.4	+0.2	1015.6	72.7	68.2	65.5	21.6	—0.2	79	0	0.8	—1.1	0	0	6	12	0	0	2	0	10
	1200		1009.9		1012.1	77.1	69.4	64.9	21.1		66		0.7		0	0	0	0	0	0	0	0	30
Narayanganj	0000	26	1011.8		1012.7	66.7	65.6	64.4	21.1		94		1.1		1	0	0	0	0	0	0	0	29
	0300		1014.1	+0.1	1015.0	76.6	69.5	65.2	21.5	—0.4	69	—5	0.6	—1.5	5	2	4	0	0	0	3	0	16
	1200		1010.5		1011.4	76.9	69.4	65.0	21.1		67		1.0		0	0	0	1	0	0	0	0	29
Dacca (Tejgaon)	0000	27	1011.3		1012.3	62.6	61.8	61.0	18.5		95		1.5		3	2	0	0	0	0	0	5	20
	0300		1013.5		1014.5	74.3	68.7	65.5	21.4		74		1.1		11	4	1	1	0	1	1	0	11
	1200		1010.2		1011.2	74.4	68.1	64.0	20.6		71		1.6		6	1	0	0	0	0	0	4	19

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1959.

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																							
Faridpur	0000	46	1012.1		1013.7	65.3	64.5	63.4	20.3		95		1.1		8	4	0	0	0	0	0	1	17
	0300		1013.6	+0.3	1015.2	74.8	68.5	64.3	20.9	—1.0	71	—6	0.7	—0.7	18	5	0	0	0	0	0	2	5
	1200		1010.7		1012.3	76.8	70.4	66.4	22.4		71		0.9		4	2	0	0	0	0	0	0	24
Barisal	0000	11	1012.8		1013.2	66.8	65.4	64.0	20.7		92		0.6		0	0	0	0	0	0	0	0	30
	0300		1014.5	+0.2	1014.9	74.6	69.1	66.2	21.8	—1.5	75	0	0.7	—1.1	2	4	0	0	0	0	1	1	22
	1200		1010.9		1011.3	77.6	70.7	68.4	22.5		69		0.5		1	0	0	0	0	0	0	0	29
Rajshahi Division																							
Khulna	0000	16	1012.6		1013.2	66.2	64.5	63.3	20.0		91		0.3		0	0	0	0	0	0	0	0	30
	0300		1014.8	+0.1	1015.4	76.7	69.2	64.8	21.0	+0.4	69	+2	0.2	—2.0	0	1	0	0	0	0	0	0	29
	1200		1011.5		1012.1	77.2	69.6	65.2	21.3		69		0.2		0	0	0	0	0	0	0	0	30
Satkhira	0000	16	1012.9		1013.4	64.3	63.1	62.2	19.2		93		0.8		0	0	0	0	0	0	0	0	30
	0300		1014.8	+0.3	1015.3	74.7	67.9	63.6	20.3	—0.5	69	—4	0.4	—1.8	3	0	0	0	0	0	0	0	27
	1200		1011.6		1012.2	76.4	69.7	65.6	21.8		70		0.5		0	0	0	0	0	0	0	0	30
Jessore (P.T).	0000	26	1012.4		1013.3	63.2	62.1	61.2	18.5		93		1.2		4	1	1	0	0	0	1	5	18
	0300		1014.5	+0.1	1015.4	72.4	67.4	64.8	20.6	—0.3	76	+2	0.4	—1.2	14	5	1	1	0	0	3	5	1
	1200		1011.5		1012.4	78.6	69.7	64.7	20.7		63		0.8		14	0	0	0	0	0	1	3	12
Pabna	0000	48	1010.7		1012.4	63.6	62.6	62.0	18.9		94		0.9		0	0	0	0	0	0	0	8	22
	0300		1012.8		1014.5	74.8	68.4	64.7	20.8	—0.6	70	—5	1.2		2	1	0	1	2	3	0	21	0
	1200		1009.5		1011.1	74.6	68.7	66.0	21.3		73		1.7		0	0	0	0	0	1	0	1	28
Serajganj	0000	51	1011.5		1013.4	64.0	63.3	62.9	14.6		96		0.1		0	0	0	0	0	0	0	0	30
	0300		1012.3		1014.1	76.0	71.1	64.4	23.8		77		1.0		0	0	0	0	0	0	0	1	29
	1200		1008.3		1010.2	71.2	71.2	69.7	25.1		88		1.2		0	0	0	0	0	0	0	0	30
Rajshahi	0300												1.6										
Bogra (P.B.O.)	0000	65	1010.7		1013.0	63.8	62.5	61.6	18.7		92		0.6		1	0	0	0	0	0	1	0	28
	0300		1012.9	—0.1	1015.2	73.1	67.3	64.1	20.2	—0.2	73	—4	0.5	—0.9	9	8	3	2	0	2	0	3	3
	1200		1009.4		1011.6	73.9	68.7	65.0	21.6		76		0.3		0	0	0	0	0	0	0	0	30
Dinajpur	0000	123	1008.9		1013.3	61.2	59.7	58.2	16.8		91		0.0		0	0	0	0	0	0	0	0	30
	0300		1010.6	—0.8	1014.8	72.1	66.1	62.3	19.2	—0.2	71	—6	0.0	—1.3	0	0	0	0	0	0	0	0	30
	1200		1007.1		1011.3	75.8	68.8	64.8	20.8		69		0.0		0	0	0	0	0	0	0	0	30
Rangpur	0000					61.7	60.7	56.4	17.7		94		0.7		1	3	0	0	0	0	0	0	26
	0300					70.8	66.8	64.7	20.6		80		0.4		2	22	2	1	0	0	2	0	1
	1200					75.3	69.4	65.5	21.8		73		0.5		0	0	0	0	0	0	0	0	30

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1959.

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	°E	Mb.	Mb.	%	%	oktas										
KASHMIR																							
Jammu (x)	0300	1200																					
	1200																						
LAHORE																							
Lahore (P.B.O.)	0000	702	989.9		1015.2	55.3	54.4	53.6	14.0		94		1.7		0	2	1	0	0	0	0	1	26
	0300		991.3	0.0	1016.6	58.9	57.1	55.4	15.1	+4.3	89	+26	2.0	+0.9	0	2	0	1	0	0	0	1	26
	1200		989.4		1014.0	71.1	63.1	57.5	16.2		62		2.7		0	1	0	1	0	0	0	0	28
" (Cantt.)	0000	703	989.3		1014.8	55.9	54.9	54.1	14.3		93		1.2		7	2	1	0	0	0	3	4	13
	0300		990.8	—	1016.2	59.2	57.1	55.2	15.0	—	87	...	2.0	...	4	1	0	2	0	2	4	1	(b) 15
	1200		988.6		1013.6	71.6	63.6	57.7	16.5		62		2.6		5	2	2	0	0	2	4	11	4
" (Walton)	0000	699	(c) 989.7		(c) 1015.0	(c) 55.9	(c) 54.3	(c) 52.9	13.7		89		1.5		4	0	1	0	0	0	0	1	(c) 22
	0300		991.4	...	1016.5	58.4	56.4	54.5	14.6	...	88	...	1.9		1	2	0	2	3	0	1	5	16
	1200		989.3		1013.8	73.0	64.4	58.4	16.8		61		2.1		3	1	0	1	2	0	3	18	2
Sialkot	0000	830	(c) 985.0		(c) 1014.9	(c) 56.2	(c) 55.1	(c) 53.8	14.3		93		(c) 0.9		0	1	0	0	0	0	0	0	(c) 27
	0300		986.7	—0.4	1016.2	60.9	57.2	54.5	14.9	+3.9	79	+7	1.7	+0.8	0	0	0	0	0	0	0	1	29
	1200		(c) 984.2		(c) 1013.1	(c) 70.5	(c) 63.2	(c) 57.3	16.5		65		(c) 1.4		0	0	0	0	0	0	0	1	(c) 27
RAWALPINDI																							
Jhelum	0000	765	987.4		1015.1	53.5	52.0	50.5	12.6		90		2.4		1	1	0	0	0	0	0	4	24
	0300		989.1	...	1016.7	55.5	53.5	51.5	13.1	...	87	...	3.4	...	1	1	0	2	0	0	1	4	21
	1200		986.8		1013.6	69.9	61.6	55.1	14.9		55		3.0		0	2	0	0	0	0	1	7	20
Chaklala	0000	1667	957.0		1016.9	48.9	48.2	47.0	11.2		95		2.1		2	1	0	1	0	1	1	1	23
	0300		958.3	...	1017.9	50.9	49.6	48.1	11.7	...	91	...	3.2	...	1	0	2	0	0	0	0	0	27
	1200		956.4		1014.3	65.7	56.5	48.7	11.9		55		3.4		0	1	2	0	1	3	18	1	4
Rawalpindi	0000	1675	956.6		1016.8	49.5	48.6	47.5	11.3		93		1.9		5	0	2	0	0	0	4	0	19
	0300		958.0	—0.3	1018.0	50.7	49.1	49.0	11.4	+3.0	90	+28	2.9	+1.7	2	2	1	0	0	0	5	1	19
	1200		956.3		1014.6	64.6	57.5	52.4	13.7		65		3.3		0	1	1	1	3	5	11	1	7
Khushab	0000	616	993.1		1015.2	57.5	55.5	53.6	14.2		87		0.6		0	1	7	0	0	0	0	0	22
	0300		994.0	—1.1	1016.3	58.3	55.3	52.4	13.6	+5.3	81	+30	1.8	+0.7	1	0	4	0	1	0	1	0	23
	1200		992.4		1014.0	75.1	64.2	55.7	15.6		52		2.1		2	0	2	1	0	0	1	0	24
Sargodha	0000	603	992.7		1014.7	55.3	54.0	52.8	13.5		91		1.7		1	3	2	0	0	0	0	1	23
	0300		994.4		1016.2	58.0	55.9	53.9	14.3	—	87	—	3.0	—	2	1	1	0	0	1	2	1	22
	1200		992.5		1013.7	71.2	62.6	56.3	15.5		60		3.4		1	3	3	1	0	1	0	1	20
MULTAN																							
Lyallpur	0000	605	993.2		1015.2	55.5	54.5	53.4	14.1		93		1.1		0	3	0	0	0	0	0	1	26
	0300		994.6	—0.1	1016.5	56.2	55.1	54.2	14.2	+4.1	93	+31	2.6	+1.3	1	0	1	3	3	1	1	0	20
	1200		992.8		1013.9	74.1	63.1	55.1	14.7		51		2.5		2	0	1	2	2	5	5	2	11
Montgomery	0000	558	994.4		1014.6	56.2	54.7	53.0	13.9		90		0.4		0	2	0	1	0	2	0	1	24
	0300		995.9	—0.7	1016.0	58.2	55.5	53.2	13.8	+2.7	83	+19	0.4	—0.4	0	2	0	4	0	3	0	0	21
	1200		993.8		1013.2	75.1	65.0	58.1	16.6		56		1.0		0	1	1	0	1	3	0	1	23
Multan (P.B.O.)	0000	404	1000.3		1015.1	55.7	53.6	51.7	13.1		86		1.5		7	0	0	0	0	0	0	1	22
	0300		1001.9	—	1016.7	58.6	55.3	52.5	13.0	...	80	...	2.5	...	2	2	1	1	0	1	0	3	20
	1200		999.6		1013.9	74.7	62.9	54.0	14.3		49		2.5		2	3	1	2	5	0	0	1	16
Multan (Surface)	0300	413	1001.9	+0.3	1016.7	61.1	56.7	52.8	13.8	+1.7	75	+13	2.6	+1.8	5	3	2	2	0	1	0	1	16
	1200		999.1		1013.5	77.3	63.9	53.7	13.7		44		3.3		1	3	4	0	1	2	1	2	16

(x) Data not available. (c) Mean for 28 days. (b) Mean for 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1959.

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										
BAHAWALPUR																							
Leiah (x)	0000	487																					
	0300																						
	1200																						
Khanpur (Surface) (x)	0300	297																					
	1200																						
" (P.B.O.)	0000	290	100.41		1014.7	55.3	53.1	51.1	12.7		86		0.8		2	7	0	0	1	1	1	0	18
	0300		1005.6	...	1016.1	59.8	55.9	52.2	13.5	...	77	...	1.3	...	3	8	0	0	0	0	0	1	18
	1200		1002.7		1012.9	77.9	64.1	53.8	14.2		44		1.7		7	6	0	0	0	5	2	1	9
Bahawalpur	0300	384	1002.6	+0.3	1016.2	64.1	58.7	54.5	14.4	+3.6	70	+9	2.6	−1.7	1	1	0	1	1	0	0	0	26
	1200		1000.2		1013.5	79.1	67.7	60.3	18.0		52		2.3		1	3	0	0	0	0	0	2	24
Fort Abbas	0000	475	995.2		1012.3	(l) 58.0	55.3	(l) 52.5	(l) 13.7		(l) 83		0.4		2	4	1	4	1	3	1	14	0
	0300		998.3	...	1015.4	62.0	57.1	52.9	13.6	...	72	...	0.7	...	3	6	7	3	4	4	0	0	6
	1200		995.9		1012.3	78.4	(b) 66.3	57.1	16.6		50		1.3		6	4	1	0	0	2	2	3	12
PESHAWAR																							
Chakdara	0000	2197	938.0		1016.1	49.0	46.7	44.3	10.0		84		2.3		0	0	0	1	0	0	1	0	28
	0300		939.2	...	1017.4	48.9	46.4	44.0	9.8	...	82	...	3.4	...	4	0	1	0	0	0	0	0	25
	1200		936.8		1012.4	64.4	54.6	46.5	10.6		51		3.6		0	1	0	3	1	5	2	0	18
Peshawar	0000	1177	974.6		1017.0	52.2	50.0	47.6	11.3		85		2.0		0	1	0	1	3	1	1	0	23
	0300		975.9	−0.3	1018.3	53.3	50.8	48.1	11.5	+4.3	83	+30	3.7	+1.5	0	0	0	8	4	6	1	0	11
	1200		973.9		1015.1	66.3	59.0	53.1	14.8		62		4.0		2	1	0	2	1	1	0	1	22
Risalpur	0000	1009	980.6		1017.2	49.0	47.5	46.6	10.5		89		2.5		0	1	1	0	0	2	3	0	23
	0300		981.8	...	1018.4	51.5	50.4	49.0	12.0	...	92	...	3.5	...	0	1	0	0	0	2	6	1	20
	1200		979.6		1015.2	66.3	59.5	54.1	14.3		65		3.8		1	0	1	1	0	5	6	1	15
Haripur	0300	1757	*	...	(c) *	(c) 54.6	(c) 49.8	(c) 45.1	11.0	...	76	...	2.7	...	0	4	0	0	0	23	0	3	0
	1200		953.1		1013.7	66.9	57.7	50.4	12.5		49		3.2		0	6	6	6	0	12	0	0	0
Campbellpur	0300	1175	(b) 975.6	...	(b) 1018.0	(b) 53.3	(b) 51.5	(b) 49.1	12.0	...	84	...	(b) 2.4	...	0	2	0	0	0	0	0	1	(b) 26
	1200		(c) 972.5		(b) 1015.5	(c) 67.7	(c) 58.2	(c) 50.1	12.4		53		(c) 2.5		2	3	0	0	0	0	0	0	(c) 23
D. I. KHAN																							
Kohat	0000	1667	958.1		1017.2	56.4	50.9	45.3	10.5		67		2.0		1	1	0	0	1	2	1	22	2
	0300		959.5	...	1018.6	57.1	51.1	45.2	10.3	...	65	...	3.2		2	1	0	0	0	2	5	11	9
	1200		957.7		1015.4	68.2	57.3	48.1	11.6		49		3.2		1	7	1	4	0	0	0	2	15
Bannu	0000	1263	970.4		1015.8	54.5	52.2	49.9	12.4		85		1.5		1	0	0	0	0	0	5	5	19
	0300		971.0		1016.2	55.6	52.7	49.6	12.3	+4.2	81	+29	3.0	+2.0	3	0	1	0	0	0	1	4	21
	1200		969.5		1013.6	68.8	61.5	55.8	15.4		64		3.2		1	1	0	6	4	0	2	0	16
D. I. Khan	0000	570	994.6		1015.2	56.3	54.3	52.6	13.5		87		1.6		1	0	0	0	0	0	0	0	29
	0300		995.9	−0.4	1016.5	58.5	55.8	53.5	13.7	+3.8	84	+18	2.6	+1.6	0	0	0	0	0	0	1	4	25
	1200		993.7		1013.6	72.8	64.3	59.2	16.8		61		2.2		2	1	0	0	0	0	0	1	26

(x) Data not available. (*) Data rejected. (b) Mean for 29 days. (c) Mean for 28 days. (l) Mean for 19 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1959.

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
	MGT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
QUETTA																							
Sibi	0000	441	999.3		1015.3	57.8	54.5	51.4	13.0		79		1.8		1	7	0	3	1	0	0	9	9
	0300		1000.4	+0.6	1016.5	58.1	55.3	52.7	13.7	+7.3	77	+41	3.0	+1.8	1	3	0	0	0	0	0	5	21
	1200		998.0		1013.4	78.9	62.9	51.9	12.4		37		3.0		0	0	0	5	6	9	3	4	3
KALAT (NORTH)																							
Nokkundi	0000	2229	938.8		1017.5	53.4	45.5	35.5	7.3		51		0.4		10	7	1	2	1	1	2	6	0
	0300		940.7		1019.3	54.8	45.9	34.7	7.0	+1.3	47	+5	1.0	—0.6	7	9	2	4	0	1	1	5	1
	1200		937.8		1013.3	74.0	54.9	33.6	7.0		25		1.5		4	1	4	7	5	2	1	5	1
KALAT (SOUTH)																							
Turbat	0000	510	*			*	*	*					0.2		0	3	15	5	1	3	3	0	0
	0300		996.7		1014.4	64.9	58.6	53.7	14.0		66		0.2		0	4	19	4	1	2	0	0	0
	1200		995.8		1013.8	85.5	70.6	58.7	18.9		44		0.6		0	5	7	3	0	11	4	0	0
Jiwani	0000	185	1007.5		1014.0	67.5	64.3	61.9	19.0		83		2.0		14	1	1	2	0	0	1	4	7
	0300		1008.8		1015.4	68.3	63.6	60.0	18.0		76		2.7		13	4	3	2	0	0	0	1	7
	1200		1007.0		1013.4	78.9	68.8	62.3	19.5		58		2.0		1	2	0	3	5	15	4	0	0
Pasni	0000	28	1012.7		1013.7	66.5	62.5	60.0	17.7		79		2.1		1	0	1	0	0	0	1	3	24
	0300		1014.4	—0.5	1015.4	67.2	62.7	59.0	17.4	+2.2	77	+8	2.7	+1.7	2	4	2	0	0	0	1	4	17
	1200		1011.9		1012.9	80.8	70.6	64.4	20.9		59		2.0		0	0	3	5	8	10	2	1	1
Ormara	0000	15	1012.9		1013.4	66.6	64.1	62.4	19.3		87		2.5		0	0	0	0	0	1	2	2	25
	0300		1014.5		1015.0	68.4	64.8	62.8	19.3	+1.5	81	+8	2.5	+1.3	0	0	1	0	0	0	0	2	27
	1200		1012.0		1012.5	80.0	69.5	63.0	19.9		57		2.0		1	2	4	4	5	5	8	1	0
Lasbela	* 0000	292																	*				
	0300		1005.1	—0.3	1015.5	70.2	61.6	55.2	14.8	+3.2	59	+8	1.3	+0.7	0	0	0	2	1	4	2	0	21
	1200		1000.7		1010.7	85.2	67.2	54.1	14.7		35		0.7		0	0	0	0	2	7	6	0	15
FEDERAL CAPITAL AREA																							
Karachi (Manora)	0000	13	1012.9		1013.4	67.7	59.7	52.0	13.9		60		1.9		7	10	5	0	0	0	2	1	5
	0300		1014.4	—0.8	1014.9	69.2	61.6	53.7	15.2	—0.8	63	—3	2.2	+1.0	5	10	6	0	0	0	2	0	7
	1200		1011.9		1012.4	81.8	75.0	71.3	26.6		72		1.5		1	2	6	1	0	1	17	2	0
Karachi (Mauripur)	0000	52	1011.5		(b) 1013.3	(b) 63.5	(b) 60.0	(b) 57.7	16.1		80		1.2		2	12	2	0	0	0	0	2	12
	0300		1013.1		1014.9	64.6	60.3	57.0	15.9		77		2.0		4	13	1	1	0	1	0	1	9
	1200		1010.6		1012.4	81.9	67.9	57.8	17.0		46		1.2		1	3	2	0	1	13	7	3	0
Karachi (City)	0300	20	1014.1		1014.8	68.1	62.1	57.8	16.4		70		1.5		8	8	3	0	0	0	2	3	6
	1200		1011.5		1012.2	81.2	69.1	61.2	18.9		52		0.9		2	0	6	1	1	12	6	2	0
Karachi (P.A.F.) (x)	0000	38																					
	0300																						
	1200																						
Karachi (Airport)	0000	73	1011.0		1013.8	60.9	57.3	54.2	14.3		80		0.6		3	3	0	0	0	0	0	0	24
	0300		1012.7		1015.5	63.8	59.0	55.5	14.9		74		1.5		5	2	0	0	0	0	0	4	19
	1200		1010.1		1012.6	82.1	66.1	53.5	14.7		39		1.2		1	6	1	2	2	13	4	1	0
HYDERABAD																							
Badin	0000	31	1013.3		1014.4	63.5	60.5	58.3	16.7		83		0.3		*								
	0300		1014.9	+1.1	1016.0	65.8	62.1	59.4	17.4	+3.6	80	+20	0.2	—0.8	*								
	1200		1012.7		1013.8	84.6	67.6	55.6	15.3		38		0.3		*								
Nagarparkar	0000		*			*	*						0.3		7	1	0	5	2	3	0	1	11
	0300	178 prov.	*			*	*						0.3		4	0	0	0	3	4	0	0	19
	1200		*			86.4	71.8	62.9	20.0		47		0.3		4	0	0	2	1	0	0	1	22

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1959.

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	1010.7		1012.7	59.8	54.9	49.8	13.9		71		0.1		6	8	3	1	1	2	0	1	8
	0300		1012.4		1014.4	62.6	56.6	50.6	13.5		67		1.6		6	8	3	2	1	4	0	0	6
	1200		1009.4		1011.3	85.0	65.4	49.7	14.3		31		1.7		9	0	0	0	0	4	4	13	0
Chhor	0000	19	1012.4		1013.1	55.9	53.2	50.4	12.6		83		0.5		0	3	0	0	0	1	0	0	26
	0300		1014.3		1015.0	61.8	56.1	50.1	12.8		68		1.2		1	1	0	0	0	4	0	0	29
	1200		1011.3		1012.0	83.5	65.3	51.8	13.1		33		1.4		5	4	0	0	0	10	4	2	5
Hyderabad	0000	98	1010.2		1013.8	63.3	59.1	55.9	15.3		77		1.0		10	0	0	0	1	0	0	0	19
	0300		1012.1	—0.1	1015.6	65.3	59.9	55.5	15.2	3.2	71	+16	2.3	+1.4	12	0	0	0	1	1	0	0	16
	1200		1009.4		1012.8	82.2	66.5	55.3	14.4		40		1.3		11	0	0	0	1	3	0	0	15
KHAIRPUR																							
Padidan	0000	153	1008.5		1014.0	56.7	54.4	52.2	13.5		85		0.6		4	2	1	2	1	1	0	9	10
	0300		1010.5		1016.0	60.3	57.1	54.3	14.5		81		0.9		6	0	1	1	2	1	1	6	12
	1200		1007.6		1012.9	80.7	64.3	51.2	13.3		37		0.9		9	1	0	0	3	0	0	11	6
Nawabshah	0000	124	1010.2		1014.7	57.9	55.2	52.6	13.5		85		0.4		2	0	0	0	1	1	0	0	26
	0300		1012.0		1016.5	60.1	56.6	53.9	14.1		79		1.6		2	0	1	0	2	0	2	2	21
	1200		1009.2		1013.5	82.2	64.4	50.3	12.6		33		1.3		21	0	0	0	4	1	0	4	9
Sukkur	0300	221	1007.8	—0.3	1015.7	62.4	58.7	55.4	15.2	+3.1	79	+21	2.5	+1.9	3	3	1	5	5	1	0	0	12
	1200		1004.9		1012.6	78.7	65.2	55.7	15.2		45		2.2		6	5	3	2	0	1	6	3	4
Kashmore	0000	255	*			*	*						1.0		0	2	1	0	0	0	0	0	27
	0300		1005.5		1014.6	66.7	58.2	51.2	12.7		57		1.8		0	9	4	0	2	0	0	0	15
	1200		1003.6		1012.3	78.6	63.3	51.9	13.0		39		1.1		0	5	4	0	1	1	1	0	18
Jacobabad	0000	183	1007.7		1014.2	61.8	57.4	53.7	14.1		75		1.4		1	2	2	0	0	0	1	2	22
	0300		1009.5	—0.1	1016.1	62.8	57.1	54.2	13.4	+2.2	68	+10	2.1	+1.4	2	0	5	1	1	0	2	5	14
	1200		1006.9		1013.1	80.2	63.9	50.5	13.0		37		1.7		3	1	2	5	4	3	5	6	1
JUNAGADH																							
Veraval	0000	26	(x)		x	x	x	x	x				x										
	0300		(k) 1012.7		(k) 1013.7	(k) 72.7	(k) 61.7	(k) 54.0	13.8		53		(k) 0.0		1	10	9	0	(k) 0	0	0	0	0
	1200		(j) 1010.2		(j) 1011.2	(b) 82.4	(e) 74.4	(l) 68.7	25.5		67		(k) 0.6		0	3	10	0	(k) 0	0	4	3	0
AFGHANISTAN																							
Jalalabad (x)	0300	1950																					
	1200																						
ARABIA																							
Muscat (x)	0300	20																					
	1200																						
HILL STATIONS																							
KASHMIR																							
Srinagar (x)	0000																						
	0300																						
	1200																						

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1959.

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	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)	0300																						
	1200																						
Misgar	0000	10190	*		*	22.8	21.4	18.6	3.4		84		3.9		0	0	0	0	0	0	0	0	30
	0300		699.4	...	3096.5	26.4	24.3	20.6	3.7	...	78	...	3.8	...	0	0	0	0	0	0	0	0	30
	1200		696.1		3059.4	35.0	31.3	25.9	4.8		71		4.3		0	0	3	0	0	0	0	0	27
Aliabad (x)	0300																						
	1200																						
Gilgit (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	785.3		1514.1	42.9	38.3	31.9	6.2		67		2.6		0	1	4	13	0	0	3	7	2
	0300		786.8	—0.7	1527.0	45.4	39.5	31.8	6.2	+1.7	59	+19	3.6	+2.0	3	6	3	11	0	0	1	2	4
	1200		785.9		1517.7	46.9	41.7	35.4	7.1		66		3.8		0	7	6	4	0	0	3	4	6
PESHAWAR																							
Drosh	0000	4806	857.8		1538.8	43.5	39.6	34.0	6.7		70		3.1		0	0	1	6	0	1	0	0	22
	0300		859.0	—0.2	1549.6	43.2	39.3	33.8	6.7	+1.6	70	+17	4.1	+2.4	0	0	3	0	0	1	0	0	26
	1200		856.3		1525.6	52.5	45.7	37.3	7.8		58		4.4		0	2	2	6	2	1	0	0	17
Cherat	0000	4272	872.3		1515.5	50.4	46.4	40.6	9.2		73		1.4		11	3	0	8	6	0	0	2	0
	0300		873.3	—0.3	1525.5	51.8	47.0	41.9	9.1	+3.4	69	+25	2.8	+1.4	20	4	0	3	3	0	0	0	0
	1200		872.2		1516.7	55.2	49.6	43.9	9.9		67		3.2		14	3	0	2	5	0	1	4	1
Kakul	0000	4214	873.8		1510.7	48.8	43.1	35.5	7.1		61		2.6		8	4	2	1	4	0	0	11	0
	0300		874.9	...	1521.6	50.8	44.6	36.5	7.5	...	60	...	3.7	...	0	4	3	1	3	0	2	16	1
	1200		873.5		1511.6	57.3	49.7	41.8	9.1		56		3.7		1	1	0	9	7	2	2	8	0
Balakot	0000	3226	(x)		(x)	47.7	43.7	38.6	8.1		72		2.3		1	0	0	0	0	0	2	1	26
	0300		(x)	...	(x)	47.6	43.8	38.9	8.3	...	73	...	3.7	...	0	1	0	0	1	0	1	0	27
	1200		(x)		(x)	58.4	50.9	43.4	9.7		58		4.0		1	1	0	0	0	0	0	1	27
Landikotal	0000	3503	896.3		1500.5	45.4	42.5	38.6	8.1		77		2.7		0	0	0	0	0	0	0	2	28
	0300		897.4	...	1513.0	48.5	44.3	39.0	8.2	...	70	...	3.6	...	0	0	0	0	0	0	0	4	26
	1200		896.0		1507.9	57.5	49.4	40.5	8.7		54		3.4		0	1	0	0	1	3	0	5	20

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1959.

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										
D. I. KHAN																							
Parachinar	0000	5673	*		*	42.1	38.6	34.2	6.7		74		2.0		8	1	1	2	0	0	0	3	15
	0300		*	...	*	44.1	(b) 40.3	(b) 33.8	7.1	+2.0	71	+23	2.4	+0.9	2	0	0	0	1	0	0	1	26
	1200		*		*	54.6	(n) 46.9	(n) 41.4	8.1		57		3.3		2	0	1	21	0	0	0	1	5
Miranshah	0000	3026	910.2		1480.4	46.7	43.5	40.2	8.3		79		1.1		0	0	0	0	0	0	0	0	30
	0300		912.3	—0.2	1503.8	50.7	46.2	40.7	8.9	+4.6	70	−31	2.7	+1.5	0	1	0	0	0	0	0	0	29
	1200		910.7		1502.4	63.1	52.5	42.2	9.3		47		2.4		0	6	0	0	0	0	0	0	24
Wana	0300	4503	863.9	...	1504.5	44.7	41.6	37.4	7.5	+3.3	77	+24	2.3	+1.5	0	0	0	0	2	2	0	0	26
	1200		861.4		1485.1	61.7	48.4	30.1	5.9		34		2.3		0	0	5	11	7	4	1	0	2
QUETTA																							
Fort Sandeman (x)	0300	4614																					
	1200																						
Hindubagh	0000	5909	818.6		1491.9	40.9	36.1	29.4	5.3		62		2.0		1	0	1	1	0	2	10	4	11
	0300		819.8		1503.0	43.1	37.0	28.0	5.6		57		2.1		0	1	0	0	0	6	7	10	6
	1200		818.2		1476.0	58.3	46.7	34.1	6.7		45		2.5		2	3	4	0	3	8	7	3	0
Loralai	0000	4699	857.9		1507.1	44.9	40.7	35.3	7.0		70		2.4		0	0	0	0	0	1	19	3	7
	0300		858.6		1513.0	45.1	40.7	34.4	6.8		66		3.2		0	0	0	0	0	2	10	12	6
	1200		857.0		1501.3	61.3	49.6	36.0	7.4		40		3.5		0	0	2	13	5	3	2	4	1
Harnai	0300												0.5				*						
	1200												0.9				*						
Quetta (Samungli)	0000	5213	843.4		1523.2	39.2	37.5	34.0	7.0		86		2.6		0	1	4	6	1	3	1	0	14
	0300		844.5		1533.7	39.1	36.9	33.1	6.6		82		3.3		0	1	1	7	0	1	1	1	18
	1200		842.2		1512.6	58.5	46.9	33.6	6.8		42		3.5		3	0	0	2	2	0	5	14	4

(*) Data rejected. (x) Data not available. (b) Mean for 29 days. (n) Mean for 17 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1959.

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	0300	5490	835.5	—2.0	1529.2	47.5	41.5	34.9	6.7	+2.3	61	+6	3.2	+2.0	0	0	0	2	1	0	0	1	26
	1200		833.8		1508.6	58.1	50.1	42.1	9.5		58		3.4		0	0	0	0	3	0	0	8	19
Chaman	0000	4311	871.2		1516.0	49.5	41.2	30.0	5.5		44		1.6		0	0	11	3	0	0	0	1	15
	0300		872.2	—1.2	1527.1	48.9	42.1	32.1	6.5	+1.6	53	+11	1.9	+0.9	1	0	9	6	3	0	2	1	8
	1200		870.4		1514.0	63.3	49.5	30.9	6.7		48		2.5		2	0	0	1	2	3	12	10	0
KALAT (NORTH)																							
Kalat	0000	6616	801.3		1535.6	36.3	34.4	31.5	6.0		80		3.3		2	2	0	4	18	0	1	0	3
	0300		802.6	—0.7	1545.8	40.6	37.0	32.4	6.0	+2.5	69	+21	2.9	+1.9	3	0	0	3	20	0	1	1	2
	1200		800.8		1514.4	52.8	44.2	34.1	6.4		45		3.3		8	1	0	1	3	3	1	12	1
Nushki	0000	3416	905.5		1566.2	54.6	46.0	34.7	7.2		49		2.0		0	0	24	0	0	0	1	0	5
	0300		906.1		1575.3	58.4	47.8	34.4	7.1		42		3.1		0	1	23	0	2	0	1	1	2
	1200		904.4		1567.6	68.7	52.8	34.4	7.2		30		3.3		0	0	1	1	2	0	2	22	2
Dalbandin	0000	2785	920.3		1498.5	46.9	41.6	34.1	6.9		62		2.9		0	15	3	1	1	1	1	0	8
	0300		921.5	—0.9	1512.1	47.3	41.7	33.3	6.7	+1.8	60	+13	3.3	+2.3	3	10	8	0	1	1	0	0	7
	1200		919.4		1519.9	69.9	53.3	35.4	7.2		28		3.6		2	13	5	2	1	3	1	0	3
KALAT (SOUTH)																							
Panjgur	0000	3177	907.5		1506.2	50.8	44.9	37.0	7.8		62		1.7		6	19	0	0	0	3	0	2	0
	0300		908.3	—0.4	1518.4	52.6	44.7	34.0	6.9	+1.5	52	+3	2.2	+1.3	3	19	0	0	0	0	0	4	4
	1200		906.2		1516.5	71.5	54.9	36.6	8.1		30		2.2		7	1	0	1	0	13	1	5	2
AFGHANISTAN																							
Kabul (x)	0300	5955																					
	1200																						
Kandahar	0300	3462	902.0	...	1536.6	43.5	41.9	39.1	8.4	...	88	...	2.2	...	1	1	3	1	1	1	1	1	20
	1200		899.9		1534.0	60.4	53.5	47.3	11.2		62		2.2		0	1	0	3	2	2	2	3	17

(x) Data not available.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF NOVEMBER, 1959.

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	83.6		88	27	60.1		57	11,30	000		000	0	0		x				29		
Cox's Bazar (P. T.)	83.6	—0.8	88	28	64.5	—2.6	61	21,30	000	—3.26	000	0	0	—3.1	2.0	+0.9					
Chittagong (Patenga)	82.6		86	7	64.4		60	30	000		000	0	0		x				4		
Chittagong (P.T.)	83.3	—0.6	85	6,10,28	62.8	—2.7	59	29,30	000	—2.17	000	0	0	—2.0	2.9	—0.2			3		
Maijdee Court	82.0	—1.3	85	7,8	64.8	—2.5	60	24	000	—1.53	000	0	0	—1.9	x		0				
Comilla	83.6	—0.4	86	5 days	63.3	—0.8	59	29	000	—1.29	000	0	0	—1.6	x		0				
Brahmanbaria	82.7	—2.5	86	3	65.5	—0.1	61	18	000	—1.04	000	0	0	—1.5	1.1						
Srimangal	84.0	—1.5	87	5	56.7	—2.9	54	6 days	000	—1.41	000	0	0	—1.7	x				3		
Sylhet (P.B.O.)	81.6		85	4	62.3		59	20,30	000		000	0	0		x						
DACCA DIVISION																					
Mymensingh	83.4	+0.5	87	7	64.3	—0.2	60	27,28	000	—0.88	000	0	0	—1.0	1.2	+0.6					
Narayanganj	84.9	+1.0	88	6,10	66.6	+0.5	63	29,30	000	—0.95	000	0	0	—1.3	0.9	—0.2					
Dacca (Tejgaon)	82.4		85	6,7,8	62.3		58	22,29	000		000	0	0		1.9				1		
Faridpur	81.8	—0.5	86	4 days	62.6	—1.4	58	30	000	—1.10	000	0	0	—1.4	1.0	—0.4					
Barisal	82.2	—0.8	86	3,10	64.3	—1.3	62	26	000	—1.54	000	0	0	—1.7	x				1		
RAJSHAHI DIVISION																					
Khulna	83.7	+0.2	88	2,8	65.8	+0.2	61	29,30	000	—1.12	000	0	0	—1.8	x						
Satkhira	83.6	—1.6	88	9	63.9	+0.7	60	5 days	000	—0.74	000	0	0	—1.2	0.1	—0.8					
Jessore	83.3	—0.9	88	9	62.2	+1.4	57	29,30	000	—0.95	000	0	0	—1.1	1.9	+0.9					
Pabna	84.1	—1.4	89	9	63.2	+0.1	59	30	000	—0.70	000	0	0	—1.0	x						
Serajganj	84.6		88	3,8	63.4		59	30	000	—0.69	000	0	0	—0.8	1.0						
Rajshahi									000	—0.53	000	0	0	—0.8							
Bogra (P.B.O.)	82.4	0.0	87	7	63.2	+0.4	59	15,30	000	—0.77	000	0	0	—0.8	1.5	+0.6					
Dinajpur	83.6	+1.1	88	9	60.3	—0.7	55	28,30	000	—0.44	000	0	0	—0.6	0.1	—1.0					
Rangpur	82.2		86	8,9	61.2		56	30	000	—0.40	000	0	0	—0.5	1.2				11		

(x) Data not available.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF NOVEMBER, 1959.

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 Figures 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.)	77.4	—5.5	84	1,2	54.0	+6.7	48	22	1.14	+1.04	0.71	7	2	+1.7	1.1	+0.3	3	1	0	0	0
,, (Cantt.)	76.6	—	83	1	53.9	—	48	20,22	1.23	—	0.55	6	3	—	(c) 2.7	—	4	0	0	0	0
,, (Walton)	78.8	—	87	2	53.8	—	48	20,30	1.56	—	0.90	7	4	—	3.1	—	3	0	0	0	0
Sialkot	75.3	—5.3	82	1	54.4	+5.3	49	20,21	3.09	+2.92	2.04	7	2	+1.6	(d) 1.0	+0.4	1	0	0	0	0
RAWALPINDI																					
Jhelum	76.9	—	86	1	51.8	—	45	21	3.41	—	2.61	7	3	—	1.3	—	4	0	0	0	0
Chaklala	71.5	—	80	1	45.6	—	39	21,30	3.59	—	2.11	7	3	—	2.1	—	3	1	2	0	0
Rawalpindi	72.8	—4.9	83	1	47.4	+3.0	41	21	3.22	+2.94	1.84	7	3	+2.5	2.1	+1.0	2	0	0	0	0
Khushab	78.3	—4.5	84	10	53.8	+4.0	47	21	1.13	+1.05	0.45	7	3	+2.8	2.4	+0.4	0	0	0	0	0
Sargodha	77.5		83	12	53.0		46	21	0.59		0.49	7	2		1.0	—	4	0	1	1	0
MULTAN																					
Lyallpur	78.6	—3.4	85	12	54.6	+5.5	49	30	0.65	+0.54	0.35	7	2	+1.8	1.8	+0.7	2	0	0	0	0
Montgomery	80.1	—3.3	91	2	54.3	+2.7	49	30	1.09	+1.04	0.87	7	2	+1.8	1.0	—0.7	2	0	0	0	0
Multan (P.B.O.)	80.1	—	88	1,2	53.3	—	47	30	0.16	—	0.10	3	1	—	1.8	—	1	0	0	0	0
,, (Surface)	80.5	—2.4	89	1,2	57.4	+6.5	52	30	0.25	+0.19	0.15	6	2	+1.9	1.4	+0.5	1	0	0	0	0
BAHAWALPUR																					
Leiah (x)																					
Khanpur (Surface) (x)																					
,, (P.B.O.)	82.3	—	92	1	52.6	—	47	27,29	0.03	—	0.03	3	0	..	(b) 3.3	—	0	0	0	0	0
Bahawalpur	82.5	—2.9	92	1,2	55.5	+4.9	51	4 days	0.09	+0.08	0.09	6	0	0.0	1.2	—0.1	0	0	0	0	0
Fort Abbas	84.5	—	94	2	54.6	—	49	27	1.00	—	1.00	6	1	—	1.9	—	0	0	0	0	0
PESHAWAR																					
Chakdara	67.5	—	78	1	44.6	—	40	24	5.17	—	2.38	6	5	—	3.2	—	4	0	0	0	0
Peshawar	72.2	—4.6	80	1	50.3	+1.4	45	23,24	4.39	+4.08	1.44	3	5	+4.4	1.4	+0.5	3	1	0	0	0
Risalpur	72.6	—	86	2	46.0	—	40	21,24	7.76	—	2.29	6	5	—	1.9	—	5	0	6	0	0
Haripur	74.5	—	83	2	49.2	—	43	26,27	3.95	—	1.69	7	4	—	5.3	—	5	0	0	0	0
Campbellpur	(c) 72.5	—	82	1	(b) 48.5	—	42	27	2.56	—	1.35	6	3	—	(e) 0.3	—	0	0	0	0	0
D. I. KHAN																					
Kohat	73.4	—	81	10	53.6	—	50	22,23,24	2.82	—	1.46	6	5	—	3.8	—	6	1	0	0	0
Bannu	73.3	—6.9	80	1,9	52.8	+2.9	49	22,23	2.64	+2.48	1.33	6	5	+4.8	1.1	—	2	0	0	0	0
D. I. Khan	77.9	—4.0	84	1	54.3	+5.6	47	29	1.75	+1.60	1.19	7	2	+1.7	0.6	+0.1	0	0	0	0	0

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF NOVEMBER, 1959.

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	81.4	—5.0	92	1,3	56.0	+2.9	51	29,30	4.71	+4.69	1.62	5	4	+3.9	1.0	—0.7	1	0	0	0	0
KALAT (NORTH)																					
Nokkundi	77.3	—2.7	87	1	51.1	+1.4	40	5,6	0.52	+0.49	0.52	4	1	+0.9	x		0	0	0	0	0
KALAT (SOUTH)																					
Turbat	89.7		95	5 days	(x)				0.61		0.61	3	1		x		0	0	0	0	0
Jiwani	82.9		90	13,24	64.7		56	5	0.91		0.69	4	2		5.2		2	0	0	0	0
Pasni	84.0	—1.4	90	13	63.1	+2.6	50	6	0.13	—0.01	0.13	1	1	+1.0	4.3	0.0	0	0	0	0	0
Ormara	83.4	—2.3	89	12	63.1	—0.7	58	8	2.80	+2.80	1.90	2	3	+3.0	3.5	—0.5	2	0	0	0	0
Lasbela	92.0	—0.9	98	8,9	57.5	+4.0	42	30	0.41	+0.41	0.30	5	2	—2.0	x		3	0	0	0	0
FEDERAL CAPITAL AREA																					
Karachi (Manora)	84.2	—1.0	88	5 days	65.7	—1.2	60	6,26	1.61	+1.53	1.49	4	2	+1.7	x		0	0	0	0	0
Karachi (Mauripur)	85.2		90	21	61.6		56	7	2.06		1.50	5	3		3.6		0	0	0	0	0
Karachi (City)	86.8		92	21	61.2		56	7	1.10		0.90	3	2		2.7		0	0	1	0	0
Karachi (P.A.F.) (x)																					
Karachi (Airport)	85.7		89	5 days	59.0		52	7	3.27		2.20	2	2		2.9		1	0	2	0	0
HYDERABAD																					
Badin	88.4	—1.8	94	1,22	61.2	+1.3	56	30	0.73	+0.55	0.65	5	1	+0.6	*		0	0	0	0	0
Nagarparkar	88.3		97	1	72.6		63	26	*	*	*		*		*		0	0	0	0	0
Umarkot	88.8		95	1	57.2		52	30	0.54		0.54	5	1		2.8		0	0	0	0	0
Chhor	89.2		93	1,20	54.1		49	28,30	0.67		0.67	5	1		(c) 1.4		0	0	0	0	0
Hyderabad	87.4	—1.4	94	3,23	61.6	+2.8	58	10	0.54	+0.48	0.54	5	1	+0.9	1.7	—1.4	0	0	0	0	0
KHAIRPUR																					
Padidan	84.0		93	1	53.9		49	9,27	0.35		0.21	5	2		3.2		0	0	0	0	0
Nawabshah	85.4		94	1	55.3		50	25	0.44		0.44	5	1		2.8		0	0	0	0	0
Sukkur	83.5	—2.7	93	1	59.0	+0.9	55	29	0.76	+0.76	0.30	6	3	+3.0	1.8	—0.5	0	0	0	0	0
Kashmore	82.4		92	1	57.8		50	13	1.35		1.35	6	1		4.4		0	0	0	0	0
Jacobabad	82.6	—3.3	92	1	59.3	+4.8	53	29	0.27	—0.22	0.11	5	1	+0.9	2.9	+0.7	2	0	0	0	0
JUNAGADH																					
Veraval (x)	(k) 90.0				(k) 64.8										x		0	0	0	0	0
AFGHANISTAN																					
Jalalabad (x)																					
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. (c) Mean of 28 days. (k) Mean for 20 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF NOVEMBER, 1959.

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	41.2	—	51	2	20.8	—	11	21	0.51	—	0.28	5	2	—	1.1	—	0	0	0	0	0
Aliabad																					
Gilgit																					
RAWALPINDI																					
Murree	53.2	—6.3	59	10,23	40.2	—0.8	34	7	4.11	+3.38	2.01	8	5	+3.8	6.7	+3.4	2	0	1	0	0
PESHAWAR																					
Drosh	57.2	—6.9	79	1	40.2	—3.4	31	6	4.29	+3.93	1.92	6	10	+8.8	2.5	+0.9	0	0	0	0	0
Cherat	61.4	—4.0	71	1	(b) 46.6	—3.1	41	4,5,6	5.66	+5.29	2.82	6	5	+4.4	3.2	—2.9	5	0	3	0	0
Kakul	65.0	—	71	1,12	46.8	—	44	4 days	4.40	—	1.82	7	4	—	x	—	4	0	4	0	0
Balakot	67.5	—	77	1	44.5	—	39	23	4.91	—	2.28	7	6	—	2.0	—	4	0	0	0	0
Landikotal	62.3	—	73	1	(j) 40.9	—	37	24	3.95	—	2.72	6	5	—	1.2	—	2	0	1	0	0
D. I. KHAN																					
Parachinar	61.5	—3.2	76	12	39.1	—0.2	34	29	6.55	+6.15	2.80	6	9	+7.8	1.5	—0.3	0	0	0	0	0
Miranshah	68.3	—5.1	76	10	46.2	—0.2	44	5 days	2.81	+2.79	1.70	6	4	+4.0	1.8	—1.4	0	0	0	0	0
Wana	64.7	—5.4	72	11,23	40.2	+4.7	33	29	3.46	+3.39	1.33	6	5	+4.8	1.5	—	2	0	0	0	0
QUETTA																					
Fortsandeman (x)																					
Hindubagh	62.6		74	9	37.2		34	4 days	2.35		1.28	6	4		5.6		0	0	0	0	0
Loralai	67.1		75	10	40.0		35	29,30	3.68	+3.52	1.91	5	4	+3.5	3.1		0	0	0	0	0
Harnai									7.12	+6.94	4.50	5	4	+3.7	x		0	0	0	0	0
Quetta Samungli	62.1		73	1	35.0		29	18,29	1.55		0.47	3	5		3.7		2	0	3	0	0
Quetta	62.5		86	1,2	36.5		30	17,29	1.90		0.50	3,5	6		1.1	—0.4	0	0	0	0	0
Chaman	66.3	—1.3	73	14,20	45.8	+2.4	38	29	0.62	+0.39	0.42	5	2	+1.3	x		0	0	0	0	0
KALAT (NORTH)																					
Kalat	59.5	—4.2	72	13	34.9	+4.3	28	7,11	1.56	+1.33	0.43	5	5	+4.2	x		0	0	0	0	0
Nushki	71.8		84	1	51.7		44	5,7	0.84		0.55	5	3		x		0	0	0	0	0
Dalbandin	73.5	—2.8	86	1	43.8	+3.3	36	6,7,8	0.42	+0.36	0.16	28	1	+0.8	3.6	+1.2	2	0	0	1	2
KALAT (SOUTH)																					
Panjgur	73.3	—2.6	79	10,14,20	47.8	+2.2	41	5	0.14	+0.09	0.07	1,28	0	—0.2	x		0	0	0	0	0
AFGHANISTAN																					
Kabul (x)																					
Kandahar	65.6	—	76	1	40.3	—	36	23	1.43	—	0.51	27	5	—	0.8	—	0	0	0	0	2

(x) Data not available.

REGD. No. S - 1452

PAKISTAN WEATHER REVIEW, 1959

MONTHLY WEATHER REPORT

December

(PUBLISHED BY THE AUTHORITY OF GOVERNMENT OF PAKISTAN)

Chief Features:

1. Depression in Southeast Bay of Bengal towards the end of the first week.

2. Generally local rainfall in the Northwestern divisions of West Pakistan with snowfalls over the hills towards the end of the second week.

3. A cold wave in Quetta division on the 17th and extended practically to the whole of West Pakistan during the next two days.

West Pakistan

A western disturbance which lay over D. I. Khan division at the end of the previous month slowly moved away Northeastwards by the 2nd. It was closely followed by two more Western Disturbances which moved away across the Northern parts of the region by the end of the first week. Under their influence scattered rain fell in Quetta and Kalat divisions on the 1st and 2nd and extended to D. I. Khan, Peshawar and Rawalpindi divisions during the course of the next fourdays.

In association with the passage of three active Western Disturbances across the Northern parts of West Pakistan towards the end of the second week generally local rainfall in Kalat, Quetta, D. I. Khan and Peshawar divisions between the 14th and the 17th and scattered light rain in Rawalpindi and Khairpur divisions and the Federal Capital Area on some of the days. Snow fell locally in the hills of the affected regions during the same period while a few dust storms were also reported from Multan and Bahawalpur divisions. As a result of a snow storm of unprecedented intensity which hit Lowari Pass in Chitral State on the 16th, forty-nine persons were killed as reported by newspapers. In the wake of the spell of wet weather, a cold wave swept across Quetta division on the 17th and affected practically the whole of West Pakistan during the course of the next two days causing the lowest minimum temperature of 14°F (12°F below normal) at Kalat (hill station) on the 17th and 24°F at Nokkundi (Plain Station) on the 17th and 18th.

The weather generally remained cold and dry during the rest of the month.

Outstanding rainfall amounts during the month were Ormara 2" on the 15th, Drosh 3" and Hindubagh 2" on the 16th, and Drosh 3" on the 17th.

The total rainfall during the month was in large defect in Lahore, Multan, Bahawalpur, Hyderabad and Khairpur divisions and in the Federal Capital Area. It was normal in Rawalpindi division, in slight excess in Quetta division and in moderate excess in D. I. Khan and Kalat divisions and in large excess in Peshawar division. Averaged over the region it was in moderate excess.

The mean maximum temperature was normal over the region outside Kalat division where it was below normal.

The mean minimum temperature was above normal in Lahore division and below normal in Kalat division and in the Federal Capital Area and normal over rest of the region.

The mean Relative Humidity was in defect in the Federal Capital Area and Bahawalpur divisions normal in Lahore, Multan, Peshawar, Kalat and Khairpur divisions and above normal elsewhere.

The mean cloud amount was normal in Rawalpindi, D. I. Khan, Hyderabad and Khairpur divisions and in the Federal Capital Area and in defect elsewhere.

East Pakistan

A depression formed in Southeast Bay of Bengal on the 5th and initially moving Northwestwards recurved in a Northeasterly direction and weakened into a low on the 7th. It finally moved away Eastwards across Lower Burma on the 8th. It caused scattered rain in Chittagong division on the 7th and the 8th. Cox's Bazar recorded 1½" rain on the 7th.

The weather was dry over the region during the rest of the month.

The total rainfall during the month was in large defect over the region outside Chittagong division where it was in slight excess.

Averaged over the region it was in moderate defect.

The mean maximum and the mean minimum temperatures were normal over the region except in Dacca and Rajshahi divisions where the mean minimum temperature was in excess.

The mean Relative Humidity was normal while the mean cloud amount was in defect over the entire region.

Table I contains the divisional means of rainfall, temperature, relative humidity and the cloud amount for the 15th 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 Services.

TABLE I—DIVISIONAL MEANS FOR DECEMBER 1959

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
	"	"	"		°	°	Mle.	%	
EAST PAKISTAN									
Chittagong	0.55	0.46	+0.09	+20	+0.5	+1.4	+1.5	—1	—0.4
Dacca	0.00	0.17	—0.17	—100	+1.2	+2.0	+0.6	—3	—0.5
Rajshahi	0.00	0.12	—0.12	—100	+0.4	+2.0	+0.5	—3	—0.5
Mean	0.17	0.24	—0.07	—29	+0.7	+1.8	+0.8	—2	—0.5
WEST PAKISTAN									
Kashmir	...	...	...	...	..	...	...	...	...
Lahore	0.00	0.59	—0.59	—100	—0.7	+2.5	+0.7	—4	—1.1
Rawalpindi	1.04	1.16	—0.12	—10	—0.9	0.0	+0.9	+11	—0.3
Multan	0.00	0.25	—0.25	—100	+1.1	+0.7	—0.5	+5	—0.8
Bahawalpur	0.00	0.22	—0.22	—100	0.0	+1.2	—0.5	—7	—1.0
Peshawar	3.11	1.14	+197	+173	—1.0	—1.4	—0.1	+5	—0.9
D. I. Khan	0.93	0.65	+0.28	+43	—1.2	—0.6	+0.4	+6	—0.4
Quetta	0.82	0.70	+0.12	+17	—0.8	—0.4	+0.3	+6	—0.7
Kalat	0.80	0.57	+0.23	+40	—2.7	—2.1	—1.5	—1	—0.4
Federal Capital Area	0.05	0.20	—0.15	—75	+1.2	—5.0	—3.0	—8	—0.1
Hyderabad	0.00	0.12	—0.12	—100	+0.9	—1.9	+0.3	+11	—0.1
Khairpur	0.01	0.10	—0.09	—90	+0.3	+0.4	0.0	+5	+0.1
Mean	0.73	0.54	+0.19	+35	—1.0	—0.9	—0.3	+2.7	—0.5
Junagad (x)	...	...	...	...	...	...	...	...	...

(x) Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER, 1959.

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.										
Chittagong Division																							
Rangamati	0000	208	1007.9		1015.4	57.2	57.1	56.9	15.9		100		7.9		13	0	0	0	1	0	0	0	17
	0300		1009.8		1017.2	61.6	60.6	59.8	17.6	—	94	—	6.1	—	9	0	2	0	0	0	1	0	19
	1200		1006.5		1013.8	71.0	65.5	61.9	19.0		73		1.0		9	0	0	0	0	0	1	0	21
Cox's Bazar (P.T.)	0300	38	1014.2	—0.5	1015.5	71.3	66.5	63.4	20.0	+1.0	76	—2	2.3	+0.6	12	8	3	4	0	0	1	3	0
	1200		1011.5		1012.8	71.7	66.9	63.9	20.1		76		2.5		8	1	0	0	0	1	6	15	0
Chittagong (Patenga)	0000	20	1013.5		1014.2	60.9	60.0	59.1	17.3		97		1.5		2	18	0	0	0	0	0	0	11
	0300		1015.5	—	1016.3	68.0	64.0	61.2	18.6	—	79	—	1.6		7	18	1	1	0	0	0	0	4
	1200		1012.6		1013.2	71.2	65.8	62.3	19.3		73		1.8		2	0	0	0	0	0	7	11	11
Chittagong P.T.	0300	46	1014.7	—0.4	1016.3	69.6	65.2	62.5	19.2	+1.3	77	—5	1.4	—0.2	12	12	1	0	0	0	0	0	6
	1200		1011.6		1013.3	70.4	65.3	62.2	19.1		75		1.2		8	0	0	0	0	1	5	14	3
Maijdee Court	0000	25	1013.7		1014.7	58.8	57.8	57.1	15.9		94		0.3		4	0	0	0	0	0	0	0	27
	0300		1015.6	—0.4	1016.5	68.4	64.1	61.4	18.5	+0.6	78	—3	0.4	—0.9	7	1	0	0	0	0	0	0	23
	1200		1012.4		1013.3	69.8	65.8	63.3	19.9		80		0.6		5	0	0	0	0	0	1	1	24
Comilla	0000	29	1013.3		1014.3	57.7	57.4	56.4	15.7		97		0.2		0	0	0	0	0	0	0	0	31
	0300		1014.5	—1.6	1015.5	68.5	64.1	61.0	18.4	+0.9	77	0	0.2	—0.8	0	0	0	0	0	0	0	0	31
	1200		1011.8		1012.8	70.8	64.6	60.5	18.1		71		0.5		0	0	0	0	0	0	0	0	31
Brahmanbaria	0000	32	1013.7		1014.8	59.9	59.0	58.3	16.6		95		0.5		0	0	0	0	0	0	0	0	3
	0300		1015.8	—	1016.9	70.2	65.5	62.6	19.4	+2.4	76	+5	0.8	—	0	6	0	0	0	1	0	0	24
	1200		1012.3		1013.4	70.8	66.2	63.5	19.9		78		1.0		0	2	0	0	0	0	0	0	29
Srimangal	0000	69	1011.9		1014.4	50.7	50.1	49.6	12.0		96		1.9		0	0	0	0	0	0	0	0	31
	0300		1013.9	—0.8	1016.4	65.5	62.7	60.5	18.1	+2.6	85	+1	0.6	—0.7	0	0	0	0	0	0	0	0	31
	1200		1010.6		1013.1	67.9	64.0	61.3	18.6		80		0.8		0	0	0	0	0	0	0	0	31
Sylhet P.B.O.	0000	115	1010.1		1014.2	57.7	56.6	55.3	15.1		93		0.6		0	0	22	0	0	0	0	0	9
	0300		1012.2	—	1016.3	67.5	62.5	58.9	17.0	—	74	—	0.4		0	0	30	0	0	0	0	0	1
	1200		1008.9		1013.0	69.1	63.4	59.5	17.4		72		0.5		0	0	0	0	0	0	6	0	25
Dacca Division																							
Mymensing	0000	62	1012.7		1014.9	58.7	57.2	55.9	15.3		91		0.6		0	0	0	0	0	0	0	0	31
	0300		1014.9	—0.5	1017.1	65.5	62.2	60.2	17.6	+1.2	82	—1	0.5	—1.0	1	4	2	4	0	1	5	0	14
	1200		1011.3		1013.5	72.5	65.6	60.9	18.4		67		0.9		0	0	0	0	0	0	0	1	30
Narayanganj	0000	26	1013.2		1014.1	60.0	58.5	57.3	16.1		91		0.7		2	1	0	0	0	0	0	1	27
	0300		1015.6	—0.7	1016.5	68.7	63.3	59.5	17.3	+0.7	73	—5	0.5	—1.0	4	1	0	1	0	0	0	9	16
	1200		1012.2		1013.0	71.6	64.5	59.7	17.5		67		0.6		0	0	0	0	0	0	0	1	30

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER, 1959.

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
Dacca Division	GMT.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	oktas										
Dacca (Tejgaon)	0000	27	1013.0		1014.0	55.4	54.8	54.3	14.4	—	97		1.1		7	1	1	0	0	0	0	11	11
	0300		1015.1		1016.1	66.4	62.4	59.6	17.5		79		1.0	—	18	3	1	1	0	0	0	4	4
	1200		1011.8		1012.8	69.2	62.8	58.2	16.0		77		1.5		3	0	0	0	0	1	3	16	8
Faridpur	0000	46	1012.8		1014.5	58.7	57.6	56.3	15.6		94		0.8		14	1	0	0	0	1	0	7	8
	0300		1015.3	—0.3	1016.9	67.2	62.5	59.3	17.2	+0.8	77	—3	1.1	+0.1	17	0	0	0	2	0	0	10	2
	1200		1011.7		1013.3	70.2	64.7	60.5	18.2		71		1.0		4	1	0	0	0	0	0	2	24
Barisal	0000	11	1014.3		1014.7	60.0	58.5	57.2	16.1		91		0.6		1	0	0	0	0	0	0	0	30
	0300		1016.1	—0.3	1016.5	67.3	62.6	59.1	17.3	—0.3	76	—3	1.0	—0.1	14	7	0	0	0	0	0	0	10
	1200		1012.7		1013.1	73.3	66.9	62.8	19.6		67		0.7		0	1	0	0	0	0	0	0	30
Rajshahi Division																							
Khulna	0000	16	1014.2		1014.3	59.9	58.3	57.1	16.0		91		0.6		0	0	0	0	0	0	0	0	31
	0300		1016.5	—0.5	1017.1	69.8	63.1	58.3	17.4	+1.4	68	+1	0.4	—0.9	0	3	0	0	0	0	0	0	28
	1200		1013.1		1013.7	70.9	65.2	61.4	18.7		72		0.7		0	0	0	0	0	0	0	0	31
Satkhira	0000	16	1014.7		1015.3	57.5	55.7	54.1	14.4		89		0.6		0	0	0	0	0	0	0	0	31
	0300		1016.4	—0.4	1017.0	68.0	61.3	56.1	15.5	—0.3	66	—9	0.6	—0.5	7	0	0	0	0	1	0	0	24
	1200		1013.2		1013.8	70.1	64.2	60.1	17.9		70		0.9		0	0	0	0	0	0	0	0	31
Jessore (P.T.)	0000	26	1013.6		1014.5	55.3	54.6	53.6	14.2		95		0.7		3	2	0	0	0	0	1	5	20
	0300		1016.0	—0.8	1016.9	64.5	60.4	57.5	16.1	+0.5	78	+4	0.7	—0.3	11	8	0	1	0	1	1	8	1
	1200		1012.8		1013.7	73.1	64.4	58.8	16.8		60		0.7		18	0	0	1	0	0	2	4	6
Pabna	0000	48	1012.7		1014.5	56.7	55.5	54.4	14.5		94		0.7		0	0	0	0	0	0	0	17	14
	03003		1014.7		1016.4	67.0	61.4	57.3	16.1	—0.1	71	—5	0.9	—	2	1	0	1	0	0	0	27	0
	1200		1011.4		1013.0	68.6	63.4	60.2	17.6		75		1.4		0	0	0	0	0	0	0	0	31
Sirajganj	0000	51	1013.0		1014.9	57.5	56.8	56.2	15.4		96		9.9		1	0	0	0	0	0	0	1	29
	0300		1014.1	—	1015.8	67.9	64.1	61.2	18.7	—	81	—	1.1	—	2	0	0	0	0	0	0	12	17
	1200		1010.2		1011.9	68.3	65.8	63.1	20.6		87		0.4		0	0	0	0	0	0	0	0	31
Rajshahi	0300												1.0										
Bogra (P.B.O.)	0000	65	1012.3		1014.7	57.3	56.0	54.7	14.8		92		0.5		1	0	0	0	0	0	2	6	22
	0300		1014.5	—0.8	1016.8	65.5	61.0	57.6	16.3	+1.0	76	0	0.9	—0.2	17	3	2	0	0	0	0	6	3
	1200		1010.9		1013.2	69.1	63.4	59.7	17.4		72		0.9		0	0	0	0	0	0	3	1	27
Dinajpur	0000	123	1011.7		1015.0	54.3	53.2	51.4	13.3		90		0.1		0	0	0	0	0	0	0	0	31
	0300		1012.2	—1.1	1016.6	64.9	59.5	55.2	14.9	+0.4	71	—10	0.2	—0.8	0	0	0	0	0	0	0	0	31
	1200		1008.9		1013.2	71.4	64.2	59.3	17.3		66		0.0		0	0	0	0	0	0	0	0	31
Rangpur	0000	113				55.2	54.2	53.2	13.9		93		0.6		5	1	0	0	0	0	3	0	22
	0300					63.5	60.7	58.4	16.8	—	84	—	0.6		5	19	5	0	0	0	2	0	0
	1200					69.4	64.0	60.2	17.9		73		1.1		0	0	0	0	0	0	0	0	31

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER, 1959.

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																							
ammu (x)	0300	1200																					
	1200																						
LAHORE																							
Lahore (P.B.O.)	0000	702	991.7		1017.7	44.7	43.7	42.6	9.2		92		0.5		0	1	0	0	0	0	0	3	27
	0300		993.3	0.0	1019.2	46.8	44.6	42.1	9.0	+0.1	83	—2	1.4	—1.0	0	1	0	1	0	0	0	3	26
	1200		991.4		1016.4	65.8	55.8	46.6	10.9		51		2.6		3	0	0	0	1	0	1	4	22
" (Cantt.)	0000	703	991.1		1017.3	45.3	44.0	42.5	9.2		90		0.4		7	1	0	0	0	1	1	7	14
	0300		992.5	—	1018.4	46.9	44.8	42.2	9.2	—	84	—	1.4	—	2	1	2	1	0	2	2	9	12
	1200		990.6		1015.7	65.7	57.0	48.8	11.9		56		2.4		5	2	0	0	0	1	7	12	4
" (Walton)	x 0000	699																					
	0300		993.1	—	1018.9	45.5	43.8	41.5	8.9	—	86	—	1.4	—	1	0	1	1	1	1	2	8	16
	1200		991.1		1015.9	66.6	56.9	47.7	11.5		52		2.5		4	1	0	0	1	0	2	21	2
Sialkot	0000	830	986.8		1017.2	46.8	45.8	44.3	10.0		92		0.3		0	0	0	0	0	0	0	0	31
	0300		988.4	—0.5	1018.6	52.6	49.4	45.8	10.5	+1.2	78	—6	0.9	—1.2	0	3	0	0	0	0	0	0	28
	1200		986.1		1015.4	63.5	56.0	49.3	12.0		59		2.3		0	0	0	1	0	0	0	4	26
RAWALPINDI																							
Jhelum	0000	765	989.4		1017.6	43.3	43.3	40.9	8.6		84		1.1		0	0	0	0	0	0	0	6	25
	0300		990.7	—	1019.0	46.0	43.7	40.8	8.7	—	82	—	2.5	—	0	1	1	0	0	2	2	6	19
	1200		988.6		1015.9	63.2	54.2	44.9	10.3		52		3.0		0	0	0	1	0	0	2	10	18
Chaklala	0000	1667	958.5		1019.4	40.8	39.9	38.8	8.0		92		1.9		3	2	0	0	0	0	3	1	22
	0300		959.6	—	1020.6	41.1	39.8	38.6	7.8	—	89	—	2.9	—	0	2	1	2	0	0	1	1	24
	1200		957.9		1016.6	59.2	50.2	40.8	8.8		51		3.0		0	1	0	1	0	4	17	0	8
Rawalpindi	0000	1675	958.1		1019.4	41.2	40.7	39.9	8.5		96		0.9		3	0	0	1	0	2	1	3	21
	0300		959.6	0.0	1020.8	41.9	40.6	39.1	8.1	+1.1	88	+12	2.7	+0.1	1	0	3	1	2	0	7	0	17
	1200		957.4		1016.7	(a) 57.6	(a) 50.9	(a) 45.7	10.0		63		2.8		0	0	0	0	6	6	9	0	10
Khushab	0000	616	995.7		1018.6	44.7	42.8	40.6	8.4		84		0.8		0	1	1	0	0	0	0	0	29
	0300		996.3	—0.9	1019.0	45.7	43.4	40.0	8.5	+1.9	80	+19	1.0	—1.5	0	1	6	0	0	0	1	0	23
	1200		995.3		1017.1	67.2	56.0	45.4	10.3		46		1.2		0	1	3	1	0	0	2	0	24
Sargodha (x)	0000	603	995.1		1017.5	43.2	42.3	40.5	8.5		87		1.3		1	2	1	0	1	0	2	0	24
	0300		996.4		1018.8	44.3	42.5	40.4	8.5		86		2.2	—	2	1	0	0	1	1	4	0	22
	1200		994.7		1016.2	64.1	55.1	46.3	10.8		53		2.2		1	1	0	0	0	1	3	5	20
MULTAN																							
Lyallpur	0000	605	995.3		1017.8	44.7	43.4	42.0	9.0		88		0.5		0	2	0	0	0	0	0	1	28
	0300		996.7	—0.1	1019.1	44.3	42.8	41.3	8.7	+0.2	88	+12	2.1	—1.1	4	1	1	0	1	1	2	3	18
	1200		995.1		1016.5	66.6	55.4	44.9	10.0		46		2.2		1	3	1	0	1	3	1	3	18
Montgomery	0000	558	996.9		1017.3	45.3	43.8	41.9	9.0		88		0.3		0	0	0	2	0	1	2	2	24
	0300		998.5	—0.2	1019.0	46.5	44.2	41.3	8.9	+0.1	81	+4	0.3	—1.5	2	1	0	7	2	1	0	4	14
	1200		996.6		1016.2	68.5	57.1	45.8	10.7		44		0.7		3	3	0	3	1	4	2	2	13
Multan (P.B.O.)	0000	404	1002.8		1018.1	44.2	41.9	38.7	8.1		82		0.8		3	1	0	1	0	0	0	0	26
	0300		1004.4	—	1019.6	45.1	42.2	38.3	7.8	—	77	—	1.8	—	2	2	0	1	0	0	0	0	26
	1200		1002.2		1016.7	67.6	55.7	43.8	9.8		42		1.6		6	0	0	0	0	1	0	0	24
Multan (Surface)	0300	413	1004.1	0.0	1019.3	48.9	44.8	39.5	8.3	—1.9	70	—2	2.0	+0.2	10	0	0	3	0	0	0	0	18
	1200		1001.7		1016.3	69.6	55.9	41.5	9.1		37		2.1		11	0	0	0	0	1	1	0	18

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER, 1959.

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										
BAHAWALPUR																							
Leiah (*)	0000	487																					
	0300																						
	1200																						
Khanpur (Surface) (x)	0300	297																					
	1200																						
„ (P.B.O.)	0000	290	1007.0		1017.8	44.5	42.5	40.1	8.3		83		0.2		0	6	0	0	0	0	0	0	25
	0300		1008.5	—	1019.2	49.0	44.9	40.3	8.3	—	71	—	1.0	—	0	4	0	0	0	1	0	1	25
	1200		1005.5		1015.8	70.4	56.6	42.3	9.5		37		1.1		7	7	0	1	0	2	3	0	11
Bahawalpur	0300	384	1005.3	+0.4	1019.4	52.7	47.8	42.9	9.2	+0.5	67	—7	0.9	—1.0	2	3	4	0	1	1	0	0	20
	1200		1002.8		1016.3	69.9	58.0	47.0	11.1		44		1.5		2	2	1	0	1	0	0	0	25
Fort Abbas	0000	475	1000.2		1017.9	47.1	45.3	43.6	9.5		86		0.3		14	6	2	1	0	0	1	3	4
	0300		1001.3	—	1018.7	48.6	45.2	42.0	8.7	—	75	—	0.9	—	4	4	4	4	3	3	3	0	6
	1200		999.3		1016.2	69.9	57.8	46.3	10.9		44		0.9		11	3	1	0	0	2	2	2	10
PESHAWAR																							
Chakdara	0000	2197	939.7		1019.4	40.1	37.9	35.1	6.9		81		2.4		1	0	0	0	0	0	1	0	29
	0300		941.0	—	1020.9	39.2	37.2	34.1	6.8	—	82	—	2.5	—	0	0	0	0	0	0	0	0	31
	1200		938.3		1015.1	57.3	49.3	40.6	8.7		54		3.4		0	0	1	1	1	3	0	0	25
Peshawar	0000	1177	976.4		1019.5	43.4	40.7	36.8	7.4		77		1.5		0	0	0	2	9	4	0	0	16
	0300		977.4	—0.6	1020.7	43.3	40.2	35.4	7.1	+0.7	74	+9	2.9	—1.1	0	0	0	3	12	6	0	0	10
	1200		975.8		1017.7	60.0	51.7	42.6	9.4		53		3.4		0	0	1	1	4	4	0	2	19
Risalpur	0000	1009	982.6		1020.1	38.7	38.1	37.4	7.5		94		2.2		1	1	1	1	0	1	3	0	23
	0300		983.5	—	1021.2	38.9	38.1	37.3	7.5	—	93	—	2.7	—	0	0	0	0	2	0	3	0	26
	1200		981.5		1017.5	58.6	52.1	45.1	10.4		62		3.2		0	0	1	0	0	6	7	0	17
Haripur	0300	1757	(1) 955.3	—	(1) 1019.6	45.1	40.9	34.5	6.9	—	68	—	3.3	—	1	8	3	1	0	15	1	2	0
	1200		954.0		1015.4	61.8	53.6	47.1	10.7		57		2.7		0	6	3	11	0	9	0	2	0
Campbellpur (x)	0300	1175																					
	1200																						
D. I. KHAN																							
Kohat	0000		959.7		1019.8	48.8	42.6	34.8	6.8				1.1		1	0	0	0	0	0	1	24	5
	0300	1667	961.0	—	1021.4	47.0	41.5	34.3	6.7	—	59	—	2.5	—	0	1	2	0	1	0	3	16	8
	1200		959.4		1018.1	61.2	51.4	41.2	9.0		61		3.1		1	3	3	3	0	2	1	0	18
Bannu	0000		*		*	45.6	42.6	38.3	7.9		49		0.3		0	1	0	0	0	2	5	5	18
	0300	1263	972.5	—	1018.7	44.7	41.7	37.7	7.6	+1.0	77	+16	2.6	+0.4	2	0	0	0	1	1	4	6	17
	1200		971.1		1015.6	63.2	53.7	43.9	9.9		76		3.1		0	0	2	4	4	2	1	1	17
D. I. Khan	0000		997.3		1018.4	45.4	43.4	40.4	8.7		49		0.3		1	0	0	0	0	0	3	1	26
	0300	570	998.2	—0.4	1019.2	47.1	44.3	40.7	8.7	+1.3	84	+6	2.1	—0.2	1	0	0	0	0	0	0	8	22
	1200		995.7		1016.0	65.5	57.2	49.4	12.3		78		1.1		0	0	0	0	0	0	0	1	30
											57												

(x) Data not available. (1) Mean for 19 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER, 1959.

Division and Station	Hours of observation.	Height of bar ciaters 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	1002.0		1018.3	46.1	43.0	38.5	8.1		76		0.3		2	9	0	0	0	0	0	4	16
	0300		1003.5	+1.3	1019.9	47.8	44.5	40.0	8.5	+2.0	75	+25	2.1	—0.2	5	0	0	2	0	1	0	4	19
	1200		1000.9		1016.5	72.8	55.7	36.4	7.5		27		1 7		0	1	1	5	10	7	2	3	2
KALAT (NORTH)																							
Nokkundi	0000	2229	942.0		1022.9	41.1	36.0	27.0	5.2		58		0.3		6	1	2	0	0	0	0	21	1
	0300		943.6		1024.9	40.2	35.9	29.0	5.5	—0.4	64	+10	0.0	—2.7	12	6	2	1	0	0	1	9	0
	1200		941.5		1019.1	61.6	48.3	32.3	6.2		34		0.0		3	0	5	7	5	2	2	5	2
KALAT (SOUTH)																							
Turbat	0000	510	995.5		1013.5	69.2	57.9	45.6	11.3		46		0.0		0	3	4	10	1	10	3	0	0
	0300		1000.6		1019.2	56.8	50.0	43.8	9.3		59		0.4		0	3	23	3	1	0	1	0	0
	1200		995.1		1012.8	76.9	61.1	47.4	11.3		36		0.4		0	5	10	2	0	6	8	0	0
Jiwani	0000	185	1010.7		1017.5	60.1	53.2	44.5	10.8		60		1.1		15	7	1	1	0	0	0	3	4
	0300		1012.0		1018.8	58.9	51.6	42.2	9.5		59		2.0		18	10	0	0	0	0	0	1	2
	1200		1009.8		1016.3	73.8	58.4	43.1	9.7		34		2.2		4	3	2	5	3	5	4	4	1
Pasni	0000	28	1015.4		1016.4	59.6	55.0	49.7	12.7		73		0.7		6	3	1	0	0	1	6	11	3
	0300		1017.3	+0.4	1018.3	58.9	54.2	50.6	12.3	—1.8	78	+3	2.8	+1.0	4	3	1	0	0	0	6	14	3
	1200		1014.8		1015.8	75.1	65.5	58.9	17.1		58		2.4		1	3	4	8	5	6	2	2	0
Ormara	0000	15	1015.9		1016.4	58.1	54.8	51.6	13.2		79		1.1		0	2	2	0	0	0	0	0	27
	0300		1017.4		1017.9	60.9	55.8	51.6	13.3	—1.7	75	—2	1.9	—0.2	0	1	4	2	0	0	1	0	23
	1200		1014.6		1015.1	75.5	65.0	57.5	16.3		54		2.1		1	0	4	5	6	2	11	1	1
Lasbela	0000	292	*			*	*	*					1.1		0	0	0	0	1	1	0	0	29
	0300		1009.3	+1.9	1019.9	61.1	51.4	40.1	8.6	—2.4	46	—15	1.3	0.0	0	0	0	0	0	3	0	0	28
	1200		1005.4		1015.6	78.3	60.3	42.6	9.8		29		0.2		0	0	0	0	0	9	2	0	20
FEDERAL CAPITAL AREA																							
Karachi (Manora)	0000	13	1016.0		1016.5	56.8	51.1	44.9	10.2		65		1.0		7	10	5	0	0	0	0	0	9
	0300		1017.5	0.0	1018.0	58.1	50.3	40.9	8.9	—3.0	54	—8	1.6	—0.2	7	10	5	0	1	0	0	0	8
	1200		1014.4		1014.9	76.9	64.4	54.6	15.0		47		2.0		1	1	6	1	2	4	14	2	0
Karachi (Mauripur)	0000	52	1014.4		1016.3	55.4	49.6	42.2	9.5		63		0.6		4	16	1	0	0	0	0	0	10
	0300		1015.8		1017.7	55.2	49.0	41.2	9.1		61		1.6		5	18	1	0	0	1	1	0	5
	1200		1013.1		1014.9	76.3	60.6	45.1	11.0		35		2.1		1	2	4	0	1	14	4	5	0
Karachi (City)	0300	20	1017.0		1017.7	60.1	53.1	45.8	10.7		60		1.4		8	14	2	1	0	0	2	4	0
	1200		1014.0		1014.7	75.3	62.5	51.9	13.5		45		1.7		3	4	5	0	1	13	3	2	0
Karachi (P.A.F.) (x)	0000	38																					
	0300																						
	1200																						
Karachi (Airport)	0000	73	1013.8		1016.6	52.5	48.4	43.4	9.8		72		0.7		8	7	0	0	0	0	0	1	15
	0300		1015.6		1018.4	53.3	48.3	42.3	9.3		67		1.8		11	2	0	0	0	0	0	1	17
	1200		1012.4		1015.1	76.4	61.0	64.7	11.4		36		2.0		0	7	3	1	3	11	3	1	2
HYDERABAD																							
Badin	0000	31	1015.6		1016.8	51.2	48.2	45.2	10.2		79		*		0	0	0	0	0	30	0	0	1
	0300		1016.8	+0.5	1018.0	52.1	48.6	44.6	10.2	+0.2	76	+15	*		0	0	0	0	1	23	0	0	7
	1200		1015.2		1016.3	77.5	59.5	44.2	9.3		28		*		7	0	0	0	0	4	0	0	20
Nagarparkar	0000	178	1006.7		*	63.4	54.0	44.3	10.0		50		0.4		6	0	0	0	0	0	2	6	17
	0300		1007.6		*	63.0	53.7	44.1	99		50		0.9		2	0	0	0	0	0	0	3	26
	1200		1001.2		*	80.2	60.7	65.0	21.4		26		0.8		1	0	0	0	0	0	0	1	29

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

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER, 1959.

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	1013.3		1015.3	50.3	44.5	36.0	6.6		52		1.0		9	10	1	0	1	1	0	1	8
	0300		1015.1		1017.2	50.3	44.7	36.5	7.5		60		2.3		15	7	1	1	0	0	0	0	7
	1200		1012.0		1014.0	78.5	60.0	41.9	9.4		28		3.1		12	3	0	0	0	3	3	10	0
Chhor	0000	19	1015.1		1015.1	46.2	42.5	37.1	7.6		71		0.9		0	2	0	0	0	0	0	0	29
	0300		1017.1		1017.8	50.9	44.4	35.0	7.1		55		1.6		1	2	0	0	0	0	0	2	26
	1200		1013.8		1014.5	77.2	57.2	33.6	7.0		22		1.4		13	3	0	0	0	2	6	3	4
Hyderabad	0000	98	1013.2		1016.8	54.6	49.3	43.4	9.6		66		0.9		20	1	1	0	0	1	0	0	8
	0300		1014.9	+0.1	1018.5	54.5	49.2	43.6	9.6	+0.5	66	+8	1.5	+0.1	24	0	0	0	0	0	0	0	7
	1200		1012.1		1015.6	74.6	59.2	44.7	10.3		35		2.2		23	0	1	0	0	2	0	0	5
KHAIRPUR																							
Padidan	0000	153	1011.5		1017.2	46.0	44.4	42.3	9.2		87		0.3		2	3	0	0	0	0	1	6	19
	0300		1013.5		1019.2	47.8	45.2	41.9	9.1		80		1.0		5	0	1	0	0	1	0	9	15
	1200		1010.5		1015.9	72.7	57.7	42.4	9.5		35		1.0		10	3	0	0	2	1	1	11	3
Nawabshah	0000	124	1013.2		1017.8	48.1	44.9	40.6	8.5		76		0.5		2	0	0	0	0	0	0	4	25
	0300		1015.1		1019.7	48.5	44.4	40.0	8.1		70		1.5		1	0	0	0	0	0	0	8	22
	1200		1011.8		1016.2	74.2	57.4	39.0	8.6		29		2.0		12	0	0	0	1	1	0	3	14
Sukkur	0300	221	1010.5	+0.1	1018.7	51.2	47.6	43.1	9.6	+0.4	74	+9	1.8	+0.5	3	3	1	6	3	1	0	1	13
	1200		1007.8		1015.7	71.3	57.3	43.3	9.8		37		1.8		5	5	4	3	1	2	2	3	6
Kashmore	0000	255	1001.6		1010.8	50.9	46.9	42.0	9.2		72		0.7		0	1	0	0	0	0	1	0	29
	0300		1010.0		1019.3	49.8	46.7	43.0	9.4		77		0.8		0	4	0	0	0	0	1	0	26
	1200		1006.4		1015.4	71.0	56.4	40.2	9.0		35		1.1		0	3	0	0	2	0	2	0	24
Jacobabad	0000	183	1010.7		1017.5	50.9	46.0	40.0	8.4		66		0.5		1	0	4	0	0	0	2	7	17
	0300		1012.5	+0.3	1019.3	50.0	45.4	39.0	8.3	—0.4	68	0	1.3	—0.3	1	1	2	1	1	0	2	6	17
	1200		1009.7		1016.2	72.5	57.0	41.1	8.9		33		1.2		8	1	1	1	1	1	6	8	4
JUNAGADH																							
Veraval	0000	26	x			x	x	x	x				x										
	0300		(i) 1014.7		(i) 1015.7	(j) 66.0	(j) 58.5	(j) 51.9	i 13.4		61		i 1.0		1	5	3	m 0	1	x 1	1	0	6
	1200		(i) 1011.8		(i) 1012.8	k 80.3	k 68.8	k 61.1	i 18.6		53		i 0.6		1	2	2	j 2	6	3	0	0	5
AFGHANISTAN																							
Jalalabad (x)	0000	1950																					
	0300																						
	1200																						
ARABIA																							
Muscat (x)	0300	20																					
	1200																						
HILL STATIONS: KASHMIR																							
Srinagar (x)	0000	—																					
	0300																						
	1200																						

(m) Mean for 18 days. (x) Data not available. (i) Mean for 22 days. (k) Mean for 20 days. (j) Mean for 21 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER, 1959.

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	8709																					
	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	698.8		3089.5	17.9	*	*	*		*		4.2		0	0	0	0	0	0	0	0	31
	0300		699.6	...	3099.7	20.3	*	*	*	...	*	...	4.1	...	0	0	0	1	0	0	0	0	30
	1200		696.1		3060.0	27.6	*	*	*		*		4.6		0	0	2	0	0	0	1	0	28
Aliabad (x)	0300																						
	1200																						
Gilgit (x)	0000	4950																					
	0300																						
	1200																						
RAWALPINDI																							
Murree	0000	7113	784.2		1509.3	38.3	33.8	26.2	5.0		63		2.8		0	5	3	16	0	0	1	4	2
	0300		785.9	−0.8	1526.0	39.7	33.1	21.6	4.0	−0.3	49	+1	3.7	+0.6	2	4	7	11	2	0	0	3	2
	1200		785.1		1513.2	42.3	35.8	25.4	4.8		52		3.4		1	9	10	5	0	0	2	6	1
PESHAWAR																							
Drosh	0000	4806	859.2		1550.3	32.7	30.5	26.3	4.8		78		2.2		0	0	3	11	0	1	0	0	16
	0300		859.9	+0.8	1556.5	32.5	30.2	26.0	4.7	−0.5	76	+11	3.3	−0.2	1	0	3	2	0	0	0	0	25
	1200		857.8		1538.4	41.1	36.2	27.6	5.1		60		3.4		0	0	7	4	0	2	0	0	18
Cherat	0000	4272(x)																					
	0300		873.0	−0.2	1521.3	46.1	38.1	24.1	4.6	−0.4	43	−5	1.5	−1.4	23	3	0	1	0	0	0	4	0
	1200		872.4		1516.5	48.9	40.1	25.5	5.1		41		2.3		23	1	0	0	1	1	0	4	1
Kakul	0000	4214	874.2		1512.0	43.1	37.6	28.9	5.4		57		3.5		6	8	0	2	0	0	3	12	0
	0300		875.2	...	1521.4	43.6	37.8	28.3	5.4	...	56	...	3.5	...	10	6	0	1	0	0	1	13	0
	1200		874.1		1514.7	51.3	44.5	36.0	7.3		56		3.1		1	1	1	4	6	1	4	12	1
Balakot	0000	3226	x		*	41.2	38.2	33.9	6.7		75		3.2		3	1	0	0	0	0	0	3	24
	0300		x	...	*	40.7	37.6	32.7	6.4	...	75	...	4.0	...	3	0	0	0	0	0	0	2	26
	1200		x		*	52.5	645.	37.5	7.7		57		3.6		2	0	0	0	0	0	0	2	27
Landikotal	0000	3503	897.0		1502.4	38.8	34.7	26.7	5.1		65		1.7		0	1	0	0	0	1	0	1	28
	0300		898.2	...	1510.9	38.9	34.4	25.7	5.0	...	61	...	2.7	...	1	0	0	0	1	1	0	0	28
	1200		896.8		1509.2	50.5	41.8	28.9	5.5		45		2.7		0	1	0	0	1	3	0	4	22

(x) Data not available. * Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER, 1959.

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	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										
D. I. KHAN																							
Paraachinar	0000	5673	828.9		1525.4	34.1	29.6	21.6	3.9		60		1.7		10	1	0	2	0	0	0	5	13
	0300		829.8	+0.6	1533.8	34.4	30.4	23.6	4.3	—1.0	64	+1	2.1	—0.9	14	2	1	1	0	2	0	2	9
	1200		829.6		1520.3	49.6	40.4	27.7	5.3		45		2.1		2	2	1	15	0	2	0	0	9
Miranshah	0000	3026	911.6		1479.2	36.2	32.1	24.4	4.5		63		0.5		0	1	0	0	0	0	0	0	30
	0300		913.1	—	1499.3	40.9	35.8	27.5	5.2	+0.5	59	+5	1.4	—1.6	0	0	0	0	0	1	0	0	30
	1200		911.6		1502.9	55.9	44.9 (b)	31.5 (b)	5.8		37		1.6		0	7	0	0	0	1	0	0	23
Wana	0300	4503	864.7	—	1509.8	34.7	32.0	26.4	4.9	+0.1	72	+2	1.8	+0.2	0	0	0	0	4	7	1	0	19
	1200		862.5		1494.5	54.1	42.0	21.8	4.3		30		1.1		1	0	6	5	9	6	1	1	2
QUETTA																							
Fort Sandeman	0300	4614	863.1	+0.4	1528.6	37.0	33.5	27.6	5.1	—0.1	69	—4	1.8	—0.8	0	1	0	1	2	1	0	1	25
	1200		861.2		1514.4	57.4	44.7	25.8	5.0		30		2.1		5	4	1	2	0	2	2	5	10
Hindubagh	0000	5909	819.5		1507.2	29.8	25.9	18.4	3.4		61		1.0		0	3	0	0	0	12	10	2	4
	0300		820.7		1518.4	30.5	26.3	18.3	3.4		59		1.3		0	1	2	0	0	12	9	3	4
	1200		819.1		1490.7	49.1	38.7	23.4	4.3		37		1.1		0	1	4	1	0	12	9	1	3
Loralai	0000	4699	858.3		1510.1	36.2	33.9	29.6	5.8		78		1.2		0	0	0	0	0	1	24	2	4
	0300		859.2		1516.9	34.3	32.4	29.8	5.5		79		2.8		0	0	0	0	0	7	9	12	3
	1200		857.3		1500.8	56.0	49.3	40.6	9.3		61		2.4		1	0	6	14	3	2	2	1	2
Harnai	0300												0.3		0	0	7	0	0	0	24	0	0
	1200												0.4		0	0	24	0	0	0	7	0	0
Samungli	0000	5213	844.3		1531.8	30.7	29.6	27.7	5.0		89		2.2		2	0	4	2	0	1	2	1	9
	0300		845.0		1540.0	29.5	28.5	26.4	4.8		90		3.1		0	2	3	5	0	3	1	0	17
	1200		843.4		1522.9	48.4	40.6	30.3	5.1		50		2.7		5	0	1	1	0	2	3	16	3

(b) Mean for 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER, 1959.

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	0300	5490	836.5	+0.2	1542.4	35.9	32.2	26.7	4.9	—0.1	68	—5	2.1	—0.6	1	0	0	0	2	0	0	1	27
	1200		833.9		1516.0	48.4	42.3	35.5	7.0		61		2.6		4	0	0	0	0	2	0	4	21
Chaman	0000	4311	873.1		1528.2	37.4	33.6	27.9	4.9		66		1.2		0	0	6	0	0	1	1	0	23
	0300		873.8	+0.9	1536.0	37.2	33.6	26.4	5.1	—0.8	68	+8	1.6	—1.3	1	0	13	4	2	0	0	0	11
	1200		872.2		1525.3	50.5	41.1	26.3	5.0		41		2.0		0	1	0	0	1	4	11	13	1
KALAT (NORTH)																							
Kalat (x)	0000	6616																					
	0300																						
	1200																						
Nushki	0000	3416	909.0		1582.7	41.2	37.2	30.6	6.0		67		1.9		0	0	14	0	0	0	0	11	6
	0300		908.9		1585.2	43.2	38.2	29.6	5.9		61		2.8		1	2	11	0	0	0	0	8	9
	1200		908.1		1589.6	54.0	44.8	32.5	6.4		45		2.4		2	0	0	0	1	0	2	25	1
Dalbandin	0000	2785	923.3		1511.6	37.6	35.3	31.6	6.1		80		2.0		1	12	12	0	0	0	0	0	6
	0300		924.5	+2.2	1519.2	36.0	34.1	30.8	5.9	—0.7	81	+12	2.7	+0.4	2	16	2	0	0	0	0	0	11
	1200		922.4		1530.0	57.0	46.3	32.2	6.4		40		3.0		0	15	10	2	0	3	1	0	0
KALAT (SOUTH)																							
Panjgur	0000	3177	909.6		1514.8	41.1	35.8	26.7	5.0		57		1.5		14	14	0	0	0	2	0	0	1
	0300		910.6	+1.8	1523.2	41.2	35.4	24.5	4.7	—1.9	54	—9	1.2	—1.0	1	28	0	0	1	0	0	0	1
	1200		908.3		1524.5	60.3	46.3	26.7	5.1		28		1.5		19	0	0	0	1	10	1	0	0
AFGHANISTAN																							
Kabul (x)	0300	5955																					
	1200																						
Kandahar	0300	3462	904.0	...	1544.1	33.6	32.3	29.9	5.7	...	85	...	2.6	...	0	2	1	1	0	0	0	1	26
	1200		902.4		1545.6	49.9	43.8	36.7	7.3		60		2.3		0	1	0	2	4	4	3	1	16

(x) Data not available.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF DECEMBER, 1959.

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 Figures 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	79.7	—	84	5	55.8	—	49	28,29	1.72	—	1.25	7	3	—	x	—	1	0	30	0	0
Cox's Bazar (P. T.)	79.8	+0.1	85	7	62.3	+3.6	54	29,30	1.89	+0.91	1.45	7	2	+1.4	2.2	+1.0	0	0	0	0	0
Chittagong (Patanga)	78.7	—	83	4	60.1	—	55	29,31	0.68	—	0.25	7	2	—	x	—	0	0	6	0	0
Chittagong (P.T.)	79.5	+0.5	82	4,6,17	58.1	+0.9	53	29,30,31	1.39	+0.75	0.76	8	2	+1.3	2.8	—0.3	0	0	4	0	0
Majidi Court	78.8	+0.3	82	2,17	57.7	—2.0	53	24,25,30	0.00	—0.28	0.00	0	0	—0.4	x	—	0	0	0	0	0
Comilla	80.6	+1.4	84	8	57.3	+2.2	52	30	0.00	—0.30	0.00	0	0	—0.4	x	—	0	0	0	0	0
Brahmanbaria	80.0	+0.2	82	7 days	58.6	+3.2	54	28	0.00	—0.31	0.00	0	0	—0.5	0.8	—	0	0	2	0	0
Srimangal	80.7	+0.3	83	6 days	50.1	+0.6	44	28, 29	0.00	—0.25	0.00	0	0	—0.5	x	—	0	0	14	0	0
Sylhet (P.B.O.)	79.8	—	83	9	57.0	—	53	27,30	0.00	—	0.00	0	0	—	x	—	0	0	0	0	0
DACCA DIVISION																					
Mymensingh	79.7	+2.0	83	4	57.5	+1.7	53	26	0.00	—0.09	0.00	0	0	—0.3	0.4	—0.1	0	0	8	0	0
Narayanganj	80.8	+2.3	85	3	59.5	+2.0	55	28	0.00	—0.20	0.00	0	0	—0.4	1.2	+0.1	0	0	21	0	0
Dacca (Tejgaon)	78.7	—	81	4,5,6	54.8	—	50	28,29	0.00	—	0.00	0	0	—	2.8	—	0	0	7	0	0
Faridpur	76.7	+0.3	80	5,6	56.6	+1.7	51	30,31	0.00	—0.15	0.00	0	2	—0.3	2.0	+0.7	0	0	0	0	0
Barisal	78.3	+0.2	81	5,6	59.0	+2.4	54	25,30	0.00	—0.25	0.00	0	0	—0.5	x	—	0	0	14	0	0
RAJSHAHI DIVISION																					
Khulna	79.3	+0.6	83	1	59.0	+1.7	82	29	0.00	—0.91	0.00	0	0	—0.3	*	—	0	0	2	0	0
Satkhira	79.5	—1.1	83	5,6,7	56.7	+2.3	48	29	00.0	—0.17	0.00	0	0	—0.3	*	—	0	0	0	0	0
Jessore (P.T.)	79.0	+0.1	83	6	53.7	+2.2	47	28,29	0.00	—0.18	0.00	0	0	—0.4	1.9	+1.0	0	0	0	0	0
Pabna	78.8	—1.0	83	4,5	56.0	+1.8	50	20	0.00	—0.15	0.00	0	0	—0.3	x	—	0	0	0	0	0
Serajganj	79.9	—	84	3	56.8	—	51	28,30	0.00	—0.09	0.00	0	0	—0.3	1.5	—	0	0	4	0	0
Rajshahi									0.00	—0.11	0.00	0	0	—0.2							
Bogra (P.B.O.)	78.1	+1.4	82	4	56.7	+2.2	50	30	0.00	—0.09	0.00	0	0	—0.2	1.6	+0.7	0	0	0	0	0
Dinajpur	79.6	+2.5	82	4 days	53.6	+1.6	47	30	0.00	—0.06	0.00	0	0	—0.1	0.0	—1.1	0	0	0	0	0
Rangpur	77.7	—	80	4 days	54.3	—	49	4 days	0.00	—0.08	0.00	0	0	—0.2	1.1	—	0	0	13	0	0

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

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION. WIND VELOCITY AND WEATHER DURING THE MONTH OF DECEMBER, 1959.

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.)	71.5	—0.8	80	5	42.9	+2.3	37	19,26	0.00	—0.47	0.00	—	0	—1.0	1.1	+0.3	0	0	0	0	0
,, (Cantt.)	70.9	—	79	5	42.7	—	36	28	0.00	—	0.00	—	0	—	2.7	—	0	0	1	0	0
,, (Walton)	72.8	—	81	3	41.9	—	36	19	0.00	—	0.00	—	0	—	3.2	—	0	0	4	0	0
Sialkot	68.8	—0.6	77	4,5	44.8	+2.6	37	18	0.00	—0.72	0.00	—	0	—1.3	0.9	+0.2	0	0	0	0	0
RAWALPINDI																					
Jhelum	69.9	—	81	3	42.7	—	35	27	1.16	—	0.68	4	2	—	1.6	—	4	1	0	0	0
Chaklala	65.4	—	72	7	38.1	—	33	18,19,25	1.03	—	0.67	18	2	—	2.4	—	4	0	5	0	0
Rawalpindi	65.6	—1.2	73	16	38.6	+0.8	34	4 days	1.19	—0.05	0.77	17	2	—0.3	2.4	+1.2	2	0	0	0	0
Khushab	73.4	+1.7	82	2	41.0	—0.5	35	30	0.10	—0.33	0.10	5	1	+0.1	2.2	+0.3	0	0	0	0	0
Sargodha	71.4		81	18	40.5		35	18	0.00		Trace	14,16,1	70		1.1		2	0	0	4	0
MULTAN																					
Lyallpur	72.0	+1.3	81	2	42.4	+0.2	35	18	0.00	—0.25	0.00	—	0	—0.8	1.8	+0.6	0	0	0	0	0
Montgomery	72.3	+0.3	82	3	43.0	—0.1	36	18	0.00	—0.26	0.00	—	0	—0.8	1.0	—0.6	0	0	0	0	0
Multan (P.B.O.)	73.3	—	82	2	(c) 41.5	—	34	23	0.00	—	0.00	—	0	—	1.9	—	0	0	0	0	1
,, (Surface)	73.5	+1.8	82	2,3,4	45.5	+2.1	36	18	0.00	—0.24	0.00	—	0	—0.7	1.0	+0.1	0	0	3	2	1
BAHAWALPUR																					
Leiah (x)																					
Khanpur (Surface) (x)																					
,, (P.B.O.)	74.2	—	86	3	41.8	—	31	18	0.00	—	0.00	—	0	—	3.0	—	0	0	0	0	1
Bahawalpur	74.0	0.0	87	3	44.8	+1.2	35	18	0.00	—0.22	0.00	—	0	—0.6	1.7	+0.1	0	0	0	0	0
Fort Abbas	75.3	—	88	4	43.1	—	34	19	0.00	—	0.00	—	0	—	1.9	—	0	0	0	0	0
PESHAWAR																					
Chakdara	60.0	—	66	7,8,9	36.5	—	31	31	2.49	—	1.79	17	2	—	2.5	—	1	0	0	0	0
Peshawar	65.6	—1.1	72	7	40.9	0.0	37	6 days	0.87	+0.20	0.69	17	2	+0.4	1.7	+0.6	1	0	0	0	0
Risalpur	65.6	—	74	2	35.5	—	27	31	1.14	—	0.80	17	2	—	1.7	—	1	0	7	0	0
Haripur	68.3	—	72	8,9,10	39.4	—	35	29,30	2.15	—	1.56	17	3	—	5.6	—	2	0	0	0	0
Campbellpur (x)																					
D. I. KHAN																					
Kohat	67.0	—	79	2	44.0	—	37	17	0.60	—	0.31	17	3	—	4.0	—	1	0	0	0	0
Bannu	67.3	—2.8	77	2	42.2	+0.2	35	18,19	0.80	+0.40	0.54	17	2	+0.5	1.2	—	0	0	0	0	0
D. I. Khan	71.6	+0.1	80	2	42.2	+1.0	36	30	0.16	—0.08	0.10	5	1	+0.3	0.5	—0.1	0	0	0	0	0

(x) Data not available. (c) Mean for 28 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF DECEMBER, 1959.

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	74.9	0.0	83	2,4	44.7	—0.8	38	21	0.09	—0.21	0.07	16	0	—0.7	1.4	—0.1	0	0	0	0	0
KALAT (NORTH)																					
Nokkundi	63.6	—7.3	72	22,25	38.2	—5.2	24	17,18	0.25	+0.11	0.25	1	1	+0.7	(x)		0	0	0	0	0
KALAT (NORTH)																					
Turbat	80.0		88	2	(x)				0.25		0.25	15	1		(x)		0	0	0	0	0
Jiwani	75.8		81	1,26	55.5		43	16,17	0.78		0.28	16	4		5.0		0	0	0	0	0
Pasni	77.2	—0.7	85	3	56.1	—0.5	44	17	0.10	—0.74	0.10	15	1	—0.5	6.3	+1.9	0	0	0	0	0
Ormara	77.6	+0.2	83	1,2	55.5	—3.4	43	17	3.36	+2.72	2.04	15	2	+0.8	2.3	—0.9	3	0	0	0	0
Lasbela	84.7	+1.14	92	3	48.1	—0.9	38	17	0.00	—0.56	0.00		0	—0.7	(x)		3	0	0	0	0
FEDERAL CAPITAL AREA																					
Karachi (Manora)	79.9	+1.2	88	5	55.1	—5.0	43	18	0.00	—0.20	0.00		0	—0.5	(x)		0	0	0	0	0
Karachi (Mauripur)	79.9		87	1	53.0		46	18	0.04		0.04	16	0		3.8		0	0	0	0	0
Karachi (City)	82.4		90	2	52.4		43	18	0.02		0.02	16	0		2.5		0	0	0	0	0
Karachi (P.A.F.)*																					
Karachi (Airport)	81.0		89	2	49.5		41	19	0.05		0.05	16	0		2.7		0	0	0	0	0
HYDERABAD																					
Badin	81.3	+0.8	93	3	48.2	—3.6	41	31	0.00	—0.15	0.00		0	—0.4	(x) 0.4		0	0	0	0	0
Nagarparkar	82.3		88	29	56.7		51	17,19,31	0.00		0.00		0		1.5		0	0	0	0	0
Umarkot	80.9		91	3,4	46.6		36	17	0.00		0.00		0		3.2		6	0	0	0	0
Chhor	82.6		91	5	43.2		31	17	0.00		0.00		0		1.5		0	0	0	0	0
Hyderabad	79.5	+0.9	92	4	52.5	—0.1	41	17	0.04	—0.10	0.00		0	—0.3	2.8	—0.7	0	0	0	0	0
KHAIRPUR																					
Padidan	75.9		90	3	43.4		32	17	0.00		0.00		0		3.2		0	0	0	0	0
Nawabshah	75.2		91	3	44.4		34	17	0.00		0.00		0		1.5		0	0	0	0	0
Sukkur	76.0	—0.2	86	3	47.7	—1.0	38	17	0.00	—0.03	0.00		0	—0.2	1.9	—0.3	0	0	0	0	0
Kashmore	75.3		82	3	46.5		31	19	0.00		0.00		0		3.8		0	0	0	0	0
Jacobabad	75.1	+0.7	84	3	48.3	+1.8	39	17,18	0.01	—0.16	0.01	16	0	+0.5	2.5	—0.5	0	0	0	0	0
JUNAGADH																					
Veraval	(j) 88.6				(j) 60.0				(x)						(x)		0	0	0	0	0
AFGHANISTAN																					
Jalalabad (x)																					
ARABIA																					
Muscat (x)																					
HILL STATIONS																					
KASHMIR																					
Srinagar (x)																					
Gulmarg (x)																					
Gurez (x)																					
Sonamarg (x)																					
Dras (x)																					
Kargil (x)																					
Leh (x)																					
Skardu (x)																					

(*) Data rejected. (a) Mean for 30 days. (x) Data not available. (j) Mean for 21 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF DECEMBER, 1959.

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 Figures 93 or less: Fog.	Visibility Code Figures 93 or less: Haze (dust).	Visibility Code Figures 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																					
Misgar	33.4	—	41	2	13.5	—	5	31	0.12	—	0.02	4 days	0	—	0.8	—	0	0	0	0	0
Aliabad (x)																					
Gilgit (x)																					
RAWALPINDI																					
Murree	47.6	—3.1	56	2,3	34.6	—0.3	20	17	1.82	+0.02	0.77	18	4	+0.8	7.7	+3.3	2	0	1	0	0
PESHAWAR																					
Drosh	48.0	—2.5	60	2	31.1	—4.5	22	18,12,21	6.77	+5.57	3.06	16	4	+0.8	2.4	+0.6	0	0	0	0	0
Cherat	54.3	+0.5	65	10	42.8	+0.4	30	17,18	1.70	+0.14	1.35	17	2	—0.2	3.2	—5.3	1	0	0	0	0
Kakul	59.0	—	67	2	40.7	—	29	17	1.62	—	0.83	17	4	—	(x)	—	2	1	6	0	0
Balakot (x)	61.3	—	68	2	37.6	—	32	30	5.02	—	2.15	17	6	—	2.1	—	2	0	0	0	0
Landikotal	54.9	—	62	2	35.4	—	30	13	1.71	—	1.26	17	2	—	1.9	—	0	0	1	0	0
D. I. KHAN																					
Parachinar	55.2	+0.4	62	2	31.3	—1.2	19	17	2.47	+1.24	1.38	16	4	+1.1	1.9	+0.2	0	0	0	0	0
Miransahah	62.9	—1.1	72	2	35.7	—3.4	30	17	0.76	+0.06	0.63	16	2	+0.2	1.6	—1.0	1	0	0	0	0
Wana	57.3	—2.6	63	4 days	30.0	+0.5	25	17,29,30	0.48	—0.22	0.44	16	1	—0.8	1.6	—	0	0	0	0	0
QUETTA																					
Fortsandeman	60.2	+0.3	69	2	35.7	+2.3	27	17	0.41	—0.16	0.27	16	1	+0.8	(a) 1.4	+0.2	0	0	0	0	0
Hindubagh	53.1		63	27	27.0		11	18	2.94		2.18	16	5		6.3		0	0	0	0	0
Loralai	60.1		68	3,21	32.2		24	17	0.74	+0.24	0.53	16	2	+0.5	3.5		0	0	0	0	0
Harnai									0.50	—0.27	0.45	15	1	—0.4	1.8		0	0	0	0	0
Quetta (Samungli)	51.0		62	2	27.7		12	17	1.15		0.37	2	4		3.6		0	0	0	0	0
Quetta	52.2		61	2	28.5		15	17	1.47		0.53	16	4		0.7	—1.0	0	0	6	0	0
Chaman	54.3	—2.7	64	1	34.2	—2.6	19	16,17	2.36	+1.01	0.91	2	3	—0.2	(x)		0	0	0	0	0
KALAT (NORTH)																					
Kalat (x)																					
Nushki	56.8		69	2	38.8		24	17	1.28		0.60	1	3		(x)		0	0	0	0	0
Dalbandin	59.0	—6.2	71	22	34.3	—0.7	26	18,19	0.83	+0.15	0.46	16	3	+1.2	3.6	+1.2	0	1	1	1	0
KALAT (SOUTH)																					
Panjgur	61.2	—5.3	72	1,2,21	37.7	—2.1	30	16,18	0.17	—0.40	0.17	16	1	—0.4	(x)		0	0	0	0	0
AFGHANISTAN																					
Kabul (x)																					
Kandahar	52.8	—	61	2	31.4	—	22	16,17	1.01	—	0.52	15	3	—	0.6	—	0	0	0	0	0

(x) Data not available.