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MONTHLY FREQUENCY TABLES

Horizontal Visibility, Height of Base of Low Cloud & Surface & Upper Winds at Pilot Balloon Stations in Pakistan

MAY 1952

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PAKISTAN METEOROLOGICAL DEPARTMENT

Karachi

1962

National Oceanic and Atmospheric Administration

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Monthly frequency tables of surface and upper winds, height of base of low clouds and horizontal visibility have been compiled from the data of Pilot Balloon Stations functioning during the month of May, 1952. The data have been given under the following tables:—

Table 1 : Particulars of the stations, *i.e.*, latitude, longitude and height above mean sea level are given in this table.

Table 2 : Wind frequencies for surface, 0.15 km. above surface, 1.0, 2.0, 3.0, 4.5, 6.0 and 7.5 km. above mean sea level from observations made at 0300, 0900 and 2100 hours G.M.T. are given in this table.

Table 3 : This table furnishes the frequencies of heights of base of low cloud observed at or near the times of Pilot Balloon observations. The code figures have the following meanings:—

Code figure	0	1	2	3	4	5	6	7	8	9
Cloud height	Less than 50 m.	50 to 99 m.	100 to 199 m.	200 to 299 m.	300 to 599 m.	600 to 999 m.	1000 to 1499 m.	1500 to 1999 m	2000 to 2500 m.	No low cloud.

Table 4 : The frequencies of horizontal visibility given in this table have been prepared from the observations made at or near the times of pilot balloon observations.

Tables 5 to 7: Special observations taken at 0600 hrs. G.M.T. during the month in connection with the Norwesters have been given at the end.

KARACHI, Pakistan :

The 3rd February, 1962.

SIBTE NABI NAQVI.
Director Meteorological Services.
Karachi.

TABLE 1.—PARTICULARS OF STATIONS APPEARING IN TABLES.

Station	Latitude N	Longitude E	Height	Station	Latitude N	Longitude E	Height
Bogra ..	24° — 51′	89° — 23′	0.03 Km.	Jacobabad ..	28° — 18′	68° — 28′	0.06 Km.
Chhor ..	25° — 31′	69° — 46′	0.01 Km.	Jhelum ..	32° — 56′	73° — 44′	0.24 Km.
Chittagong ..	22° — 21′	91° — 50′	0.02 Km.	Jiwani ..	25° — 04′	61° — 49′	0.06 Km.
Cox's Bazar ..	21° — 26′	91° — 58′	0.01 Km.	Karachi (Drigh Road) ..	24° — 54′	67° — 08′	0.03 Km.
Dacca ..	23° — 46′	90° — 23′	0.02 Km.	Khanpur ..	28° — 39′	70° — 38′	0.09 Km.
Dalbandin ..	28° — 53′	64° — 24′	0.85 Km.	Lahore ..	31° — 33′	74° — 20′	0.22 Km.
Drosh ..	35° — 34′	71° — 47′	1.51 Km.	Multan ..	30° — 12′	71° — 26′	0.12 Km.
Fort Sandaman	31° — 21′	69° — 27′	1.42 Km.	Peshawar ..	34° — 00′	71° — 31′	0 37 Km
				Quetta (Samungli) ..	30° — 15′	66° — 53′	1.61 Km

TABLE 2.—Observations of Wind by Pilot Balloons at 0300 G.M.T. May, 1952.

STATION	Speed in Knots	Number of observations at Surface.											Number of observations at 0.15 Km. above Surface.											Number of observations at 1.0 Km. above sea level.											Number of observations at 2.0 Km. above sea level.										
		Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.
Bogra	3-14 15-27 28-41 >41	31		2	8	2	1	1			17	31		5	10 3	7 1	3	2				22			1	3 2	6 2	2 4	2			12		1		1	1 2	2 1	3 1		
Chhor	3-14 15-27 28-41 >41	31		1				21 4			5	31	1			2	3	9 11 2	1	2		22	2	2				2	4 4 2	3 2	1	12		2				3 1	3 1	1 1	
Chittagong ...	3-14 15-27 28-41 >41	31		1	1	10	4	1			14	30	2		4 1	14	5 2	1			1	28	3			3 4	8 6	3 1				21				1 1	8 3	3	3	1	1
Cox's Bazar ...	3-14 15-27 28-41 >41	31			3	8	10 2	1			7	29		1	3	10 4 1	5 4		1			28	1			4 3	5 5 1	5 4				22		1	2		2 2	4 1	3 4	3	
Dacca	3-14 15-27 28-41 >41	31		1	7	6	7				10	28			4 1	8 1	8 2	3			1	20				2	6 3	4 5				9					2	2 1	2 2		
Dalbandin ...	3-14 15-27 28-41 >41	31	2	3	2			1		1	22	30	2 1	5 1	5			1	4	4	3	30	3	5	6			1	3	4	8	29	6 1	5	1	3		2	2	4 4	1
Drosh	3-14 15-27 28-41 >41	31		3	1	2					25	30		8	3	2 1		1			15											30	3	19 1	3		1				3
Fort Sandaman ...	3-14 15-27 28-41 >41	31							1		30	31	1	1		1	1	9 2	7 1	5	3											31	4	6		2	2	4	8 1	4	
Jacobabad ...	3-14 15-27 28-41 >41	31			8	10	3		1	5 1	3	30	4	1	4 4	7	4 2	1		3		28	7 2	2		2	2 1	4	3	1 4		24	2		1			4	7 3	5 1	1
Jhelum	3-14 15-27 28-41 >41	31	2	1	2				2	9	15	31	8 2	2 2	3 1	1			1	8 3		31	6	1 1	1 2	3 1		2	2	6 4	2	31	3		1	4 1	2	1	1	10 5 1	2
Karachi ... ... (Drigh Road)	3-14 15-27 28-41 >41	31						16	4	6 1	4	31						1	13 14	2 1		25	1						2 4 5 1	3 7 1 1		16	4		1			1	1 1 1	3 1 1	2
Khanpur ...	3-14 15-27 28-41 >41	31	3 1	2 1			2	9	1	1	11	29	3 2	1 1	2	2	1 2	3 5	2 2	2 1		29	2 1	1 2	1	3		2 3 1	2 3 1	4 2	1	21	2	1		1		2 4	4 3	2 1	1
Lahore	3-14 15-27 28-41 >41	31	4	6	1	2	1		1		16	31	6 1	5 3	5 1	2 2	1		2	3		31	5	7	2 2	1	1	3	4	5 1		29	3	1		2	3 1	4	3 1	4 5	2
Multan	3-14 15-27 28-41 >41	31	2	1		2	4	1		4	17	28	2 1 1	1 1	4	1	2 6	3	2	3	7	28	2 1 1	2 2	1	3 3	1 2	3 2	2	2	1	26	3 1	3	1		2		3 2	3 3 1	1 1	2
Peshawar ...	3-14 15-27 28-41 >41	31		1	2	4	1	3		3	17	31	6	7	5	1	2	1	4	2	3	31	5 1	4	2	2			3	9 2	3	31	5	2	1	1	2		1 2	8 5 1	3
Quetta ... ... (Samungli)	3-14 15-27 28-41 >41	31			2	7		1	3	2	16	31			4	7 1	3	2	3 3	3	5											31	2	1	1	1 1	2	1	5 2	9	6
Jiwani * ...	3-14 15-27 28-41 >41	14				2		8	2 1		1	14				2		5 1	3 2 1			11		3	1			1	2 1	2 1		9	1				1	1	1	2 2	1

(*) Station started on the 18th May, 1952.

TABLE 2.—Observations of Wind by Pilot Balloons at 0300 G.M.T. May, 1952.

Number of observations at 3.0 Km. above sea level.											Number of observations at 4.5 Km. above sea level.											Number of observations at 6.0 Km. above sea level.											Number of observations at 7.5 Km. above sea level.											Speed in Knots	STATION
Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.		
9				1		1	1 4	2		2						1	1			1								1													3-14 15-27 28-41 >41	Bogra
3		1			1			1		1			1							1							1														3-14 15-27 28-41 >41	Chhor
17	1				2 1	4	2 3	1 2	1	12	2		1			2	3 1	1 1 1		10			1		1	1	2	2 2 1		3				1			1	1		3-14 15-27 28-41 >41	Chittagong
19	1	1			2	2 2 1	3 1	3 3		10	1				1	2	3	2 1		5			2			1 1	1			3			1				1 1			3-14 15-27 28-41 >41	Cox's Bazar
6							2 1	1 1 1																																	3-14 15-27 28-41 >41	Dacca
28	2	1			1	7 1	2 1	5 5 2	1	21	1 4					1 2	2 2 1	1 5 1 1		9	2 1					1	1 2	1 1		4							1 1	1 1		3-14 15-27 28-41 >41	Dalbandin
29	10 11 1	2 1	1		2	1				29	4 5 1	4	1		1 1	5 1	2	1	3	25	1 1	2 1			1	3 2 1	6 2	4	1	19	2		1				1 1	5 2 1	3 2 1	3-14 15-27 28-41 >41	Drosh
31	5	1			2	5	1 1	10 4	2	26	2		1	2	1	1 3	6 2 2	2 2 1 1		7						2	2 1	2												3-14 15-27 28-41 >41	Fort Sandaman
21	1				1	7 1	3 2	3 3		17	2 1	1				1 1	2 1 1	4 3		4			1				1	1 1													3-14 15-27 28-41 >41	Jacobabad
29	3			2 1	1 1	2	1 3	9 4 1	1	24	4			1	1	1	2 5 1	1 8		14	1 1					1 1 1	4	1 4		4							2	1 1		3-14 15-27 28-41 >41	Jhelum
12	1 1	3	1	1		1 1		1 1	1	8	1	1	1				1 2	2		6		1				1	1 1	1 1		3							1 1 1			3-14 15-27 28-41 >41	Karachi (Drigh Road)
19	1	1	1			2 1	5 4	2	2	7	1	1				1	1 1	1 1		1		1																		3-14 15-27 28-41 >41	Khanpur
27	2				1	5	4 2	4 6	3	13					1	1	3 1	2 1 2	2	4					1		1 2														3-14 15-27 28-41 >41	Lahore
16	2 1				1 1		4 3	1 2	1	9	1					2	1 1	2 1 1		1								1		1								1		3-14 15-27 28-41 >41	Multan
30	2	1	1		2	5	7 4	3 2 2	1	25				1	1	4 2	6 6	3 2		16	1				1	2 1	2 4 2 1	1 1		2							1 1			3-14 15-27 28-41 >41	Peshawar
29	1					1 1	3 3 1	8 9 2		19							4 4 1	3 3 3 1		5						1	2 1	1		3							2	1		3-14 15-27 28-41 >41	Quetta (Samungli)
7	1	2		1				3		5	2 1		1					1		4	1 1	1 1								2		2									3-14 15-27 28-41 >41	Jiwani

TABLE 2.—Observations of Wind by Pilot Balloons at 0900 G. M. T. May, 1952.

STATIONS	Speed in Knots	Number of observations at Surface.											Number of observations at 0.15 Km. above Surface.											Number of observations at 1.0 Km. above sea level.											Number of observations at 2.0 Km. above sea level.										
		Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.
Bogra ...	3-14 15-27 28-41 > 41	31		3	4	9	2				13	30		2 1	7 1	8 3	5 1	1		1		25		1	1	8 2	9 2	1		1		12					3	3	3 3		
Chhor ...	3-14 15-27 28-41 > 41	31		1				19 5	2		4	20	1	1			1	10 1	4 1		1	18	1	1			1	8 1	3 2	1		16		1			1	3 1	6	3	1
Chittagong ...	3-14 15-27 28-41 > 41	31			1		9 3	12 2	2 1		1	30			1		11 1	13 1	2		1	27			1		4 3 1	11 3			4	23	1				3 1	6 2	5 3		2
Cox's Bazar ...	3-14 15-27 28-41 > 41	31			1	1	13 3	8	2	2	1	29	1		1 1	1	8 5	8 1	3			30			1	3	5 6	6 1 1	2 2	2	1	22	1	1		1	3	5	5 3	2 1	
Dacca ...	3-14 15-27 28-41 > 41	31			5	2	12	5	1		6	31		1	4	6	11 3 1	4			1	27			1	2	12 5	5 1			1	19				1	2	6 3	3 3	1	
Dalbandin ...	3-14 15-27 28-41 > 41	31	4	4		4		5	2	3	9	31	4	5		4	1	3 1	4 2	2 2	3	31	4	4		4	2	4	5	4	4	30	6	1	3	1	1	2 2	7	4 1	2
Drosh ...	3-14 15-27 28-41 > 41	31	1	6				6		1	17	30	4	3 1	1			7 1		2	11											30	7	3	1	1	1	9 1	3	1	3
Fort Sandeman ...	3-14 15-27 28-41 > 41	31	1	2			1	4	5	3	15	31		9			2	13	4 1		2											31	2		1		2	7 1	7 1	3 1	6
Jacobabad ...	3-14 15-27 28-41 > 41	31	3	1	2		3	2		5	15	31	1	1	3	2	6	5	2	5 3	3	30		1	3		3	5	5	3	5 2	3	28	2 1		1	2	2	4	7	5 2	2
Jhelum ...	3-14 15-27 28-41 > 41	31	1	1	1	1	5	4	1	5	12	31	3	2	1	4	6	4	1	5	5	31	3	1	2	2 1	3	3	3	9 1	3	30	1		1	4 1	1 1	4	1	11 3	2
Karachi (Drigh Road).	3-14 15-27 28-41 > 41	31						17 9	1 2	2		31	1					1 6 1	5 14 2	1		31	3	1					6 7 3	10 1		30	2		1	1	1	1	6 3 2	7 5 1	
Khanpur ...	3-14 15-27 28-41 > 41	31	3	2 2				6	9	3	6	29	4 1	1				4 5	5	3 1	5	29	5	5			1	6 1	5 2	1	2	29	1	1 1		1	2	12 3	3 1	3	1
Lahore ...	3-14 15-27 28-41 > 41	31	2	2	2	2		2	5	3	13	31	6	3	3	1 1	2	2	4	6 3		31	3	3	2 1	1 2	1	3	6	6 1 1	1	31	4		2	4	2	5 1	5 2	3 3	
Multan ...	3-14 15-27 28-41 > 41	31	3	6		1	1	7	2	5	6	28	4	7	1	1	5	5	3	1	1	28	4	3 1	2	2	3	7	4	1	1	26		2			5	5 2	5 2	5	
Peshawar ...	3-14 15-27 28-41 > 41	31	2	15	3	4	1	1		1 1	3	31	1	14	8		2 1	1	1	1 1	1	31	7 1	9	4		4	1		1 1	3	31		1	1	2	4	4	8 3	6 1	1
Quetta (Samungli). ...	3-14 15-27 28-41 > 41	31				1		7	9 2	9 1	2	31	2			1		1	9 5 1	8 1	3											31					3	11 2	10 5	
Jiwani ...	3-14 15-27 28-41 > 41	14				2	2	6	2	1 1		14					2	5	3 2	1	1	14		1	2 1	2	2		2 1	1 1	1	12	2	1	1		1		2 1	1 1	2

TABLE 2.—Observations of Wind by Pilot Balloons at 0900 G. M. T. May, 1952.

Number of observations at 3.0 Km. above sea level.											Number of observations at 4.5 Km. above sea level.										Number of observations at 6.0 Km. above sea level.										Number of observations at 7.5 Km. above sea level.										Speed in Knots	STATION
Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.		
8					1		1 3 1	1 1		5						1	1 1 1	1		2							1	1		1	1									3-14 15-27 28-41 >41	Bogra
15	1	1		1	1	5	3	2 1		13	3					1 2	3 1	2 1		7							1 3	1 2		1								1			3-14 15-27 28-41 >41	Chhor
20	1				2	4 1	5 3	2	2	17		1				3	2 3	4 3 1		12						4 1	1 2	1 2	1	8				1		2	3 1	1		3-14 15-27 28-41 >41	Chittagong
17	1	1		1	1	1 1	2 3	1 4 1		9	1		1				1 1	5		2							1	1		1							1			3-14 15-27 28-41 >41	Cox's Bazar
10				1			3 3 1	2		2						1		1		1							1													3-14 15-27 28-41 >41	Dacca
24	5			1	2	3	5	3 3	2	16	1					1 2	4	3 4 1		10						1	1 4	1 3		5							2 2	1		3-14 15-27 28-41 >41	Dalbandin
30	8	1			7	6 1	1	2	4	26	1	2	2	2	5 3	3 1	4	1 1	1	20	1	1			1	1	6 3 1	6		14	2					1 1	4 1	4 1		3-14 15-27 28-41 >41	Drosh
31	2		1	2	3 1	8 2	5 1	4	2	27						4 3	4 7	3 3 1	2	20	1					1 3	5 3 1	1 1 2 1		16						1	4 2 4 2	1 2		3-14 15-27 28-41 >41	Fort Sandeman
26	2 1			1	1	2 1	6 3	1 5	3	26	1			1	1	3	2 6	2 5 2	3	25	1	1 1				1 2 1	7 4 1 1	3 5 2		22	2					1	3 3 4 1	1 4 2 1		3-14 15-27 28-41 >41	Jacobabad
30		1		3	3 2	3	5 1	7 5		29	2			1	3	2 2	5 2 1	7 4		24				1		2 1	2 4 2	4 7 1		19						2	3 1 3 1	1 3 4 2		3-14 15-27 28-41 >41	Jhelum
30	3	2	1			1	7 6 1	2 4 1	2	27	3	4 1		1	1 1	1	1 5	5 3 1		26	1 1	2	1	1	1		4 5 1	4 4 1		26	2 2					1	1 5 3 6	1 1 3 2		3-14 15-27 28-41 >41	Karachi (Drigh Road).
25	1	1		1	2 1	6 4 1	1 3 1	2 1		22	1		1	1	1	8	2 1 2	2 3		18	2					3 1	3 1	2 3 1		10	1						1 2 4	2		3-14 15-27 28-41 >41	Khanpur
31			1	1	4	5 1	4 4	5 5	1	29	3	1		1	1	4 3	3 3	3 6	1	25			1			3	1 7	4 9		22						2 2	2 4 3	5 4		3-14 15-27 28-41 >41	Lahore
25		1		1	2	4 2	7 3	4 1		22	2			1	2	5 2 1	3 3 1	1 1		15						1 2 1	5 1 3	2		11						2 1	1 3 1 1	1 1		3-14 15-27 28-41 >41	Multan
31				3	5	6	3 10	2 2		29					3 1	4	5 8	4 3		25	1	1				2 2 3	3 6	2 5		23		1			1	2 2	1 4 6	1 2 3		3-14 15-27 28-41 >41	Peshawar
30	1					3 2	9 2 1	7 4	1	23	1	1		1		4 2 1	3 2	2 4 2		19	1 1					1 1 2	1 4 2	2 2 2		15	1 1					2	2 5 1	1 1 1		3-14 15-27 28-41 >41	Quetta (Samungli)
12	2 1	1 1					1 1	3	2	13	4 3	1	1	1	1		1	1		13	2 1	1 1	2	2	1		1	1	1	8	2	2		1			1	2 1		3-14 15-27 28-41 >41	Jiwani

TABLE 2.—Observations of Wind by Pilot Balloons at 2100 G. M. T. May, 1952.

STATION	Speed in Knots	Number of observations at Surface.											Number of observations at 0.15 Km. above Surface.											Number of observations at 1.0 Km. above sea level.											Number of observations at 2.0 Km. above sea level.										
		Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	1-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.
Bogra ...	3-14	31		1	5	6	2				17	30			2	4	5	1		1		27			1	2	6	1				3						2	1		
	15-27														5	5	6						1				6	7	1	1											
	28-41														1	1											1														
	>41																																								
Chhor ...	3-14																																								
	15-27																																								
	28-41																																								
	>41																																								
Chittagong ...	3-14	31	1	1	1	6	1	1		1	19	28	1		5	7	7			1		26				1	4	5	1		1	19			1	1	2	3	4	1	
	15-27													1	1	5							1			2	10	1									3	2	1	1		
	28-41																																								
	>41																																								
Cox's Bazar ...	3-14	31	1		6	5	7	4			8	23				4	11	3	1	1	1	23				1	8	6	1		1	19				1	4	4	4		
	15-27															1	1										3	3										2	2	1		
	28-41																																								
	>41																																								
Dacca * ...	3-14	30			4	2	8	1		1	14	28			2	3	6	5			1	23			1	1	3	2	2			12				2	2	1	2	1	
	15-27															1	8	2								1	3	4	1										1	1		
	28-41																										2	3													
	>41																											2													
Dalbandin ...	3-14	31	2	8	2			2	1	6	10	30	3	8	3				3	2		30	5	9	3			1	3	4	2	28	5	6	4		1	1	4	2	
	15-27												3	1	2			1		4			1		1					1			3		1				1			
	28-41																																								
	>41																																								
Drosh ...	3-14	31		2	1						28	30		6	2		2	1	1		18											30	3	11		2		4	1		9
	15-27																																								
	28-41																																								
	>41																																								
Fort Sandeman	3-14	31		2	1		1	6	2		19	31	1	2		2	2	7	8	3	5											31	2		1		4	5	7	4	2
	15-27																			1																		1	4	1		
	28-41																																								
	>41																																								
Jacobabad ...	3-14	31	2	1	5		8	6	3	2	3	31		1			3	1	2		1	30	1		1	1	2	8	3	1		26	2			2	2	8	7	2	
	15-27		1										3		4		2	12	1							1	1	6	1	4								1		2	
	28-41												1																												
	>41																																								
Jhelum ...	3-14	31		8					2	7	13	31	4	5	4	1	1	1	1	8	1	31	5	3	4	1	2	1	1	8		31	5	3	1	1	1	2	6	6	
	15-27								1				1	2					1	1			2	1		1				1			1							5	
	28-41																						1																		
	>41																																								
Karachi (Drigh Road) ...	3-14	31						22	2	2	4	31						2	13			26					1		2	1		17	1	1	1	1		2	3	2	
	15-27								1									2	11	2									13									1	3	2	
	28-41																		1										6												
	>41																												2	1											
Khanpur ...	3-14	31	1	1				14		2	11	28		3	2		4	2	2			27	3		2		1	4	5	1	1	21	1			1		6	3	1	
	15-27			1					1					1				4	4	3								5	3	1							1	2	5			
	28-41																	2	1											1												
	>41																													1												
Lahore ...	3-14	31	4	6	2	1					17	30	5	2	2	1	1		5	2		30	7	1	1			1	3	8	2	30	5	3	1		2	2	4	10	
	15-27									1			2	6	2				1				2	2	1				1	1			1			1				1		
	28-41												1																												
	>41																																								
Multan ...	3-14	31	2	3		1	2	1	1		21	27	2	1	4	3	1	1	1	1	2	27	2	1	3		7	3			1	21			1		4	6	2	2	1
	15-27													2			2	5	1					1	1		1	5									1	2	1	1		
	28-41													1										2																		
	>41																																								
Peshawar > ...	3-14	27		1		4	2	5	4	3	8	26	3	3	2	2		1	6	7		26	5	1	4	1		1	2	6	4	26	2	1	1	1	2	3	1	3	6
	15-27																			2			1							1									1	1	4		
	28-41																																								
	>41																																								
Quetta (Samungli) ...	3-14	31			3	8		3	1	6	10	29	1		3	1	2	3	7	6												29			1	1	2		6	5	1
	15-27																	1	1	4													1						4	6		
	28-41																																						1		
	>41																																								
Jiwani ...	3-14	14					1	6	3	1	2	13						3	4	1		12						2	8	2		12					1		4	3	
	15-27							1										1	4																			1	1	1	
	28-41																																								
	>41																																								

> On four days observations not taken.

* On one day

TABLE 2.—Observations of Wind by Pilot Balloons at 2100 G. M. T. May, 1952.

Number of observations at 3.0 Km. above sea level.										Number of observations at 4.5 Km. above sea level.										Number of observations at 6.0 Km. above sea level.										Number of observations at 7.5 Km. above sea level.										Speed in Knots	STATION
Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.		
1							1																																	3-14 15-27 28-41 > 41	Bogra
																																								3-14 15-27 28-41 > 41	Chhor
11					2	2 2	2	1 2																																3-14 15-27 28-41 > 41	Chittagong
15				1	2	2	2 2	2 2	2	4					1	1	1	1		1						1															3-14 15-27 28-41 > 41	Cox's Bazar
																																								3-14 15-27 28-41 > 41	Dacca
17	4		1	2		5 1	1 1	1	1	1							1																							3-14 15-27 28-41 > 41	Dalbandin
29	9 3	1			4 1	5	1	1	4	14	3			1	2	3	1	1 1	2.																					3-14 15-27 28-41 > 41	Drosh
30	2			1	1	3 2	6 4	5 4	2	1								1																							3-14 15-27 28-41 > 41	Port Sandeman
25	2				3	4 1	4	5 3	3	2						1		1																							3-14 15-27 28-41 > 41	Jacobabad
26	3	1	1		1	2	4	7 5 1	1																															3-14 15-27 28-41 > 41	Jhelum
7	1	1	1				1 1	2																																3-14 15-27 28-41 > 41	Karachi (Drigh Road)
12				1		3	2 2	2 2																																3-14 15-27 28-41 > 41	Khanpur
23	1 1	1	3			2	4 1	7 3																																3-14 15-27 28-41 > 41	Lahore
14		1			1	6 1	2	1 1	1																															3-14 15-27 28-41 > 41	Multan
20	1			1	1	4 1	3 2	4 2	1																															3-14 15-27 28-41 > 41	Peshawar
21	2 1				1	1	1 1	3 7 2 1	1																															3-14 15-27 28-41 > 41	Quetta (Samungli)
9	1	2	1			1		3 1		2			1					1																							3-14 15-27 28-41 > 41	Rawal

TABLE 3.—Frequency of Observations of Base of low Cloud above ground Level at 03, 09, and 21 G. M. T. May, 1952.

STATIONS	Cloud Amounts in Octas	No. of observations with cloud base represented by code figures at 03 G.M.T										No. of observations with cloud base represented by code figures at 09 G.M.T.										No. of observations with cloud base represented by code figures at 21 G.M.T.									
		0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
Bogra Λ3 ..	Trace to 8																														
	6 to 8					6	7	7	6	2	3					3	11	11	4	1	1					6	2	11	1	1	6
	7 or 8					4	4	3	2		13					1	6	3	3		13					4	1	3			
						2	3	2			7					1	3				4					4		2			
Chhor ..	Trace to 8	1				1			1		22	8					2		1		20										
	6 to 8						6				2																				
	7 or 8						2				1																				
Chittagong ..	Trace to 8					2	8	10	2	1	8					1	12	10	1		7					1	11	6	3		10
	6 to 8					1	3	3			7						7	1			8						9	1			
	7 or 8					1	1	1			3						6				6						9				
Cox's Bazar ..	Trace to 8						3	18	4	1	5						4	20	2	1	4						6	13	3		9
	6 to 8						1	2	1		4						2	3			5						3	4			
	7 or 8						1	1			2						1	1			2						2	2			
Dacca *3 ..	Trace to 8			1	1	7	15	2			5					3	18	5	3	1	1					3	10	4	1		12
	6 to 8					5	8				13					3	6	2			11						2	4			
	7 or 8					2	2				4					3	3	2			8							1			
Dalbandin ..	Trace to 8								1	1	29								6		25								1		30
	6 to 8										1								2		3										
	7 or 8										1																				
Drosh ..	Trace to 8				1		2	4	3		21						2	5	12	10	2							3	6	1	21
	6 to 8				1			1	1		6						1	4	1		11							1	2		
	7 or 8				1			1			4						1	1			9								1		
Fort Sandaman	Trace to 8									1	30									20	11									7	24
	6 to 8										8									4	9									1	
	7 or 8										3									3	6									1	
Jacobabad *1 *3 ..	Trace to 8										30									1	30										30
	6 to 8																														
	7 or 8																														
Jhelum ..	Trace to 8								1	1	29							2	18	1	10								6	5	20
	6 to 8										4							1			6										
	7 or 8										4							1			5										
Karachi (Drigh Road) ..	Trace to 8					11	6	1			13						1	1			29					11	4				16
	6 to 8					3	3				7															3					
	7 or 8					1	2				3															1					
Khanpur ..	Trace to 8	1							2	1	27							1	3	2	25	1						2			28
	6 to 8										2										6							1			
	7 or 8										2										3							1			
Lahore ..	Trace to 8							1		1	29						1		3	2	25									3	28
	6 to 8							1			4										5										
	7 or 8										3										4										
Multan ..	Trace to 8										31								1		30										31
	6 to 8										5										5										
	7 or 8										3										3										
Peshawar v2 Λ3 ..	Trace to 8							2	5		24							4	17	4	3							6	4	1	16
	6 to 8										5										9									1	
	7 or 8										4										3									1	
Quetta (Samungli) ..	Trace to 8						1				30							3	3	7	18								1		30
	6 to 8										3										5										
	7 or 8										2																				
Jiwani * .. *3	Trace to 8					7					7					1					13			1		1					11
	6 to 8					3					2																				
	7 or 8					3					2																				

*1 On 1 day cloud height could neither be measured nor estimated at 03 G.M.T.
v2 On 3 days cloud height could neither be measured nor estimated at 09 G.M.T.
Λ 3 On 4 days cloud height could neither be measured nor estimated at 21 G.M.T
*3 on 1 day cloud height could neither be measured nor estimated at 21 G.M.T.
* Station started on the 18th May.

TABLE 4.—Frequency of Observations of Horizontal Visibility at 03, 09, and 21 G.M.T. and Number of days of fog (Visibility) < 100 m. May, 1952.

No. of observations between the following limits at 03 G.M.T.										No. of observations between the following limits at 09 G.M.T.										No. of observations between the following limits at 21 G.M.T.										No. of days of fog	STATIONS
Less than 50 m.	50-200 m.	200-500 m.	500-1000 m.	1000-2000 m.	2000-4000 m.	4000-10000 m.	10000-20000 m.	20000-50000 m.	Λ 50000 m. (50 Kms.)	Less than 50 m.	50-200 m.	200-500 m.	500-1000 m.	1000-2000 m.	2000-4000 m.	4000-10000 m.	10000-20000 m.	20000-50000 m.	Λ 50000 m. (50 Kms.)	Less than 50 m.	50-200 m.	200-500 m.	500-1000 m.	1000-2000 m.	2000-4000 m.	4000-10000 m.	10000-20000 m.	20000-50000 m.	Λ 50000 m. (50 Kms.)		
					5	22	4								1	25	5														Bogra
					11	17	3						5	8	6	7	5														Chhor
					3	27	1								4	26	1							1	9	21					Chittagong
				1	3	18	9								4	13	13	1													Cox's Bazar
						4	16	11								1	6	24													Dacca
		1	1	7	14	8						2	3	6	17	2	1					1	1	11	15	3					Dalbandin
				1	1		2	18	9					1		1	7	14	8												Drosh
					10	16	5							2	4	5	18	2							3	28					Fort Sandaman
	1		1		7	18	3		1					2	3	5	19	2					1	1	4	23	2				Jacobabad
					2	9	8	12							1	5	15	10													Jhelum
				1	1	29							1		4	23	3							1	1	29					Karachi (Drigh Road)
		2	3	6	10	10							2	8	11	10															Khanpur
				1	4	26									4	14	13														Lahore
					18	13								1	16	13	1														Multan
						7	22	2								5	24	2						2	2	27					Peshawar
				1	6	17	7							1	3	15	7	5						1	6	24					Quetta (Samungli)
						9	5									1	13			1					1	12					Jiwani

Table 5:—Special Observations of Wind by Pilot Balloons at 06 Hours G. M. T.—May, 1952

STATIONS	Speed in Knots	Number of observations at Surface: Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Number of observations at 0.15 Km. above Surface: Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Number of observations at 1.0 Km. above sea level: Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Number of observations at 2.0 Km. above sea level: Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots
Bogra ...	3-14	31		3	7	3	1				17	29		1	12	4	5	2			2	20			2	5	8	2		1		7					1	5		1	
	15-27														3												2														
	28-41																																									
	> 41																																									
Chittagong ...	3-14	31			3	5	11				12	28			2	3	8	6	2		2	20				1	5	5			2	9					2	5	1		
	15-27															1	2	1									1	3	3											1		
	28-41																1																									
	> 41																																									
Cox's Bazar ..	3-14	31	1		2	15	6	3			2	30	1			3	13	5	1			28		1		4	4	13				18		1	1	1	2	5	4	1	
	15-27					2										1	5										4	2												3		
	28-41															1																										
	> 41																																									
Dacca ...	3-14	31		1	5	5	7	6			7	28			4	7	10	2			2	23				3	11	4	1			4				1		2		1	
	15-27														1		2										1	2														
	28-41																																									
	> 41																																									

Table 6:—Frequency of Observations of Base of Low Cloud above Ground Level at 06 Hours G. M. T. May, 1952

STATIONS	Cloud Amount in Octas	Number of observations of Base of Low Cloud above ground level at 06 Hours G. M. T. represented by code figures.									
		0	1	2	3	4	5	6	7	8	9
Bogra ..	Trace to 8					9	7	9	1	2	3
	6 to 8					4	2	7		1	14
	7 or 8					3		5			8
Chittagong ..	Trace to 8					3	14	10	2		2
	6 to 8					2	8	3			13
	7 or 8					2	6				8
Cox's Bazar ..	Trace to 8						7	19	2		3
	6 to 8						2				2
	7 or 8										
Dacca ..	Trace to 8					3	22	2	2		2
	6 to 8						12				12
	7 or 8						5				5

Table 5 (contd):—Special Observations of Wind by Pilot Balloons at 06 Hours G. M. T. May, 1952.

Number of observations at 3.0 Km. above sea level.											Number of observations at 4.5 Km. above sea level.											Number of observations at 6.0 Km. above sea level.											Number of observations at 7.5 Km. above sea level.											Speed in Knots	STATIONS
Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 230-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.	Total No. of observations	N 338-22	NE 23-67	E 68-112	SE 113-157	S 158-202	SW 203-247	W 248-292	NW 293-337	0-2 Knots.		
3					1		1	1																																	3-14 15-27 28-41 > 41	Bogra
3							1 1	1																																	3-14 15-27 28-41 >41	Chittagong
14	1		2		2		2 3	1 2 1		2							1 1			1					1					1						1					3-14 15-27 28-41 > 41	Cox's Bazar
1						1																																			3-14 15-87 28-41 > 41	Dacca

Table 7:—Frequency of Observations of Horizontal Visibility at 06 G.M.T. May, 1952

Number of observations between the following limits at 06 hours G.M.T.

Less than 50 m.	50—200 m.	200—500 m.	500—1,000 m.	1,000—2,000 m.	2,000—4,000 m.	4,000—10,000 m.	10,000—20,000 m.	20,000—50,000 m.	More than 50,000 m (> 50 Km.)	No of days of Fog	STATIONS
					3	22	6				Bogra
					2	28	1				Chittagong
					2	13	16				Cox's Bazar
					1		9	21			Dacca