

# WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 4th January, 1967.

—o—o—o—

## SUMMARY OF WEATHER

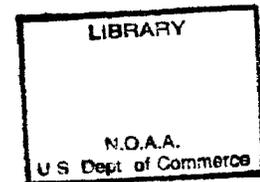
**EAST PAKISTAN :-** An easterly low pressure area, on entering into the south-west Bay of Bengal, concentrated into a depression and was centred at 0300 hours GMT. on 2nd near latitude 9 degrees north and longitude 84 degrees east. It intensified, moved north-eastwards and was centred on the morning of 4th near latitude 11.5 degrees north and longitude 86 degrees east under its influence scattered rain fell in the southern districts of Chittagong division on the last day of the week. Cox's Bazar recorded 1/4" of rain.

Night temperatures were slightly to appreciably above normal in Rajshahi division on the 29th, in Chittagong, Dacca and Rajshahi divisions between the 31st and the 1st and over the whole of the province on the 2nd and the 3rd.

**WEST PAKISTAN :-** A western disturbance lay over east Iran and adjoining Afghanistan on the 28th. It moved away east-northeastwards across Peshawar division and Kashmir by the 1st. Under its influence scattered to local rain, with snowfalls over the hills, occurred in Rawalpindi and Peshawar divisions between the 29th and the 31st. A few falls of light rain or drizzle also occurred in Lahore division on the 29th and the 30th, in Sargodha division on the 30th and 31st and in Peshawar division on the 1st. Rawalpindi and Murree each recorded 1/4" of rain on the 31st. In the wake of this disturbance a cold wave swept across Quetta and Kalat divisions causing to fall markedly to considerably night temperatures below normal on the 30th. The cold wave continued to hold its grip over these divisions till the end of the week. The lowest minimum temperature 05°F (-15°C) was recorded at Kalat hill station on the 3rd and 24°F (-4°C) at Nokkundi Plain station on the 31st. Cold weather also gradually extended to the rest of the province causing temperatures to fall slightly to appreciably below normal between the 1st and the 4th and in the Southern and central divisions during the preceeding two days. Earlier during the week day temperatures were slightly to appreciably above normal in Lahore, Rawalpindi, Multan, Quetta and Kalat divisions on the 29th and only in Lahore division on the 30th.

- 2. CHITTAGONG DIVISION : Scattered rain fell on one day.
- DACCA DIVISION : } Weather remained dry during the week.
- KHULNA DIVISION : } Weather remained dry during the week.
- RAJSHAHI DIVISION : } Weather remained dry during the week.
- KASHMIR DIVISION : Data not available.
- LAHORE DIVISION : Weather remained mainly dry during the week.
- RAWALPINDI DIVISION : Local and scattered rainfall on one day each.
- SARGODHA DIVISION : Weather remained mainly dry.
- MULTAN DIVISION : } Weather remained dry during the week.
- BAHAWALPUR DIVISION : } Weather remained dry during the week.
- PESHAWAR DIVISION : Scattered rain fell on two days.
- D.I. KAHN DIVISION : } Data not available.
- QUETTA DIVISION : } Data not available.
- KALAT DIVISION : } Data not available.
- KARACHI DIVISION : } Data not available.
- HYDERABAD DIVISION : } Data not available.
- KHAIRPUR DIVISION : } Data not available.
- JUNAGADH : Data not available.

*Oversize*  
*DC*  
*990*  
*P18*  
*P36*  
*1967*  
*(Incomp)*



3. Based on the data of stations having normals, the week's rainfall was normal in Chittagong and Rawalpindi divisions, deficient in Sargodha division and scanty in Peshawar division. No rain fell elsewhere over the country.

Rainfall for the period from 1st November 1966 to-date was in large excess in East Pakistan deficient in Rawalpindi division and scanty in Lahore, Sargodha and Peshawar divisions. No rain has, so far, fallen elsewhere in West Pakistan.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st November 1966, to-date.

**National Oceanic and Atmospheric Administration**  
**Climate Database Modernization Program**

**ERRATA NOTICE**

One or more conditions of the original document may affect the quality of the image, such as:

Discolored pages  
Faded or light ink  
Binding intrudes into the text

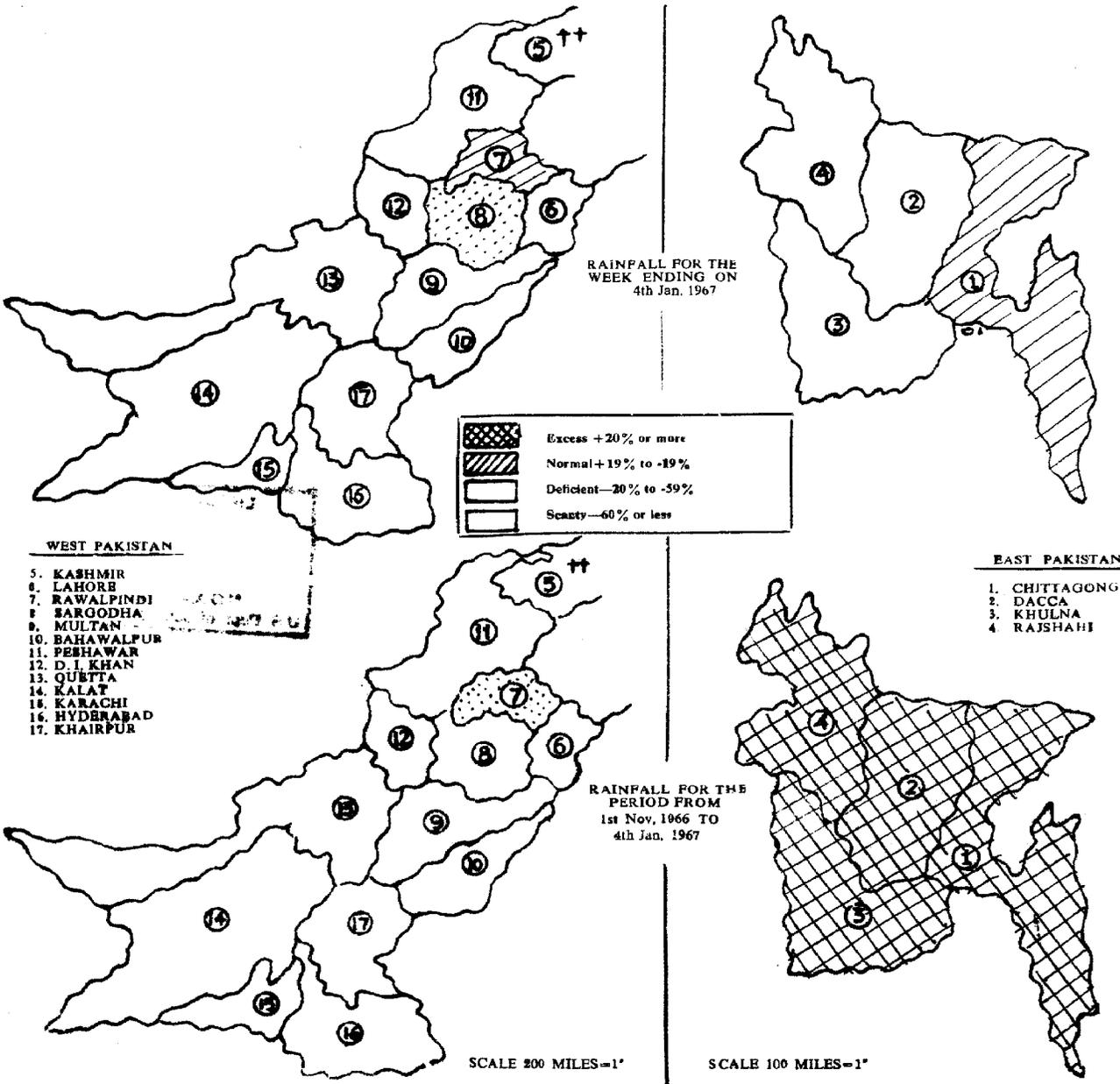
This document has been imaged through the NOAA Climate Database Modernization Program. To view the original document, please contact the NOAA Central Library in Silver Spring, MD at (301) 713-2607 x124 or [www.reference@nodc.noaa.gov](mailto:www.reference@nodc.noaa.gov).

LASON  
Imaging Subcontractor  
12200 Kiln Court  
Beltsville, MD 20704-1387  
March 28, 2002

# WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending the 4th Jan. 1967.			Rainfall for the Period from 1st Nov, 1966 to 4th Jan. 1967.			
	† Actual	Normal	*Excess or defect	† Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	0.1	0.1	0	4.7	2.3	+ 2.5	+ 107
2. Dacca	0	0	0	1.9	1.1	+ 0.7	+ 63
3. Khulna	0	0	0	2.7	1.3	+ 1.4	+ 104
4. Rajshahi	0	0	0	1.7	0.7	+ 1.0	+ 155
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0	0.2	- 0.2	0.1	0.9	- 0.8	- 94
7. Rawalpindi	0.4	0.4	0	1.5	2.3	- 0.8	- 35
8. Sargodha	0.1	0.1	0	0.1	0.5	- 0.4	- 90
9. Multan	0	0.1	- 0.1	0	0.3	- 0.3	- 100
10. Bahawalpur	0	0	0	0	0.3	- 0.3	- 100
11. Peshawar	0	0.4	- 0.3	0	1.6	- 1.6	- 98
12. D. I. Khan	0	0.2	- 0.2	0	0.7	- 0.7	- 100
13. Quetta	0	0.2	- 0.2	0	1.1	- 1.1	- 100
14. Kalat	0	0.2	- 0.2	0	1.2	- 1.2	- 100
15. Karachi	0	0.2	- 0.2	0	0.6	- 0.6	- 100
16. Hyderabad	0	0.1	- 0.1	0	0.6	- 0.6	- 100
17. Khairpur	0	0	0	0	0.2	- 0.2	- 100
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01'  
 † Rainfall of stations having no normals is not included. ††Data not available.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 11th January, 1967.

—oO:—

### SUMMARY OF WEATHER

**EAST PAKISTAN :-** Last week's deep depression moved northeaswards and on the morning of the 5th was centred near latitude  $13\frac{1}{2}$  degree north and longitude  $87\frac{1}{2}$  degree east. It remained practically stationary thereafter and became unimportant over west central Bay of Bengal by the evening of 8th. Meanwhile a westerly low pressure wave moved to Bihar on the 8th and passed off northeastwards across sub-Himalayan West Bengal by the 11th. Under their combined influence fairly widespread rain fell in Dacca, Khulna and Rajshahi divisions and local in Chittagong division between the 8th and the 9th. Scattered to local rainfall occurred in Chittagong and Khulna divisions on the 5th, 7th and the 10th. A few falls of light rain or drizzle were also recorded in Chittagong division on the 6th, 7th and the 11th and in Dacca and Rajshahi divisions on the 10th.

Chief amounts of rainfall recorded were :-Cox's Bazar  $1\frac{1}{2}$ " on the 5th; Khulna and Jessore 2" each and Srimangal  $1\frac{1}{2}$ " on the 8th ; Khulna  $3\frac{3}{4}$ " on the 9th and Maijdee Court and Khulna  $1\frac{1}{2}$ " each on the 10th.

Night temperatures were slightly to appreciably above normal in Chittagong and Rajshahi divisions on the 6th and appreciably to considerably above normal all over the province from the 7th to the end of the week.

**WEST PAKISTAN :-**Two western disturbances affected the weather over the province. The first one appeared over south west Afghanistan and adjoining areas on the 5th and moving Eastnortheastwards became unimportant over Sargodha division by the 7th. The second appeared over northwest Afghanistan on the 6th and moved away across East Russian Turkistan and adjoining Kashmir by the 9th. Under their combined influence scattered rain fell in Peshawar and Rawalpindi divisions on the 8th. A few falls of light rain or drizzle occurred in Quetta division on the 5th and 7th, in Peshawar division on the 6th and in Peshawar and Rawalpindi divisions on the 9th. A few falls of snow also occurred over the hills of Peshawar division on the 6th and the 8th. According to newspaper reports, the hills surrounding Quetta became covered with a thick layer of white snow and the Abbottabad, Murree road became blocked due to heavy snow falls on the 5th morning. In the wake of the western disturbances a cold wave swept across Quetta division and the adjoining northern parts of Kalat division on the 7th extending to the whole of the province during the week. According to newspaper reports three persons got killed in Karachi due to severe cold weather.

Night temperature were markedly to considerably below normal in Quetta division and the northern parts of Kalat division on the 7th, in the southern and central divisions between the 8th and the 10th and in the northern divisions on the 11th. These were slightly to appreciably below normal elsewhere over the province during the week.

2. CHITTAGONG DIVISION :	Local rain fell on three days and scattered on one day.
DACCA DIVISION :	Widespread rain fell on two days.
KHULNA DIVISION :	Widespread and fairly widespread rain fell on one day each and local on two days.
RAJSHAHI DIVISION :	Fairly widespread and scattered rain fell on one day each.
KASHMIR DIVISION :	Data not available.
LAHORE DIVISION :	Weather remained dry.
RAWALPINDI DIVISION :	Scattered rain fell on one day.
SARGODHA DIVISION :	} Weather remained dry.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Scattered rain fell on one day.
P. I. KAHN DIVISION :	Weather remained mainly dry.
QUETTA DIVISION :	Weather remained mainly dry.
KALAT DIVISION :	} Weather remained dry.
KARACHI DIVISION :	
HYDERABAD DIVISION :	
KHAIRPUR DIVISION :	
JUNAGADH	Data not available.

3. Based on the data of stations having normals, the week's rainfall was in large excess in East Pakistan and scanty in Rawalpindi and Quetta divisions whereas no rain fell elsewhere over West Pakistan outside Peshawar division.

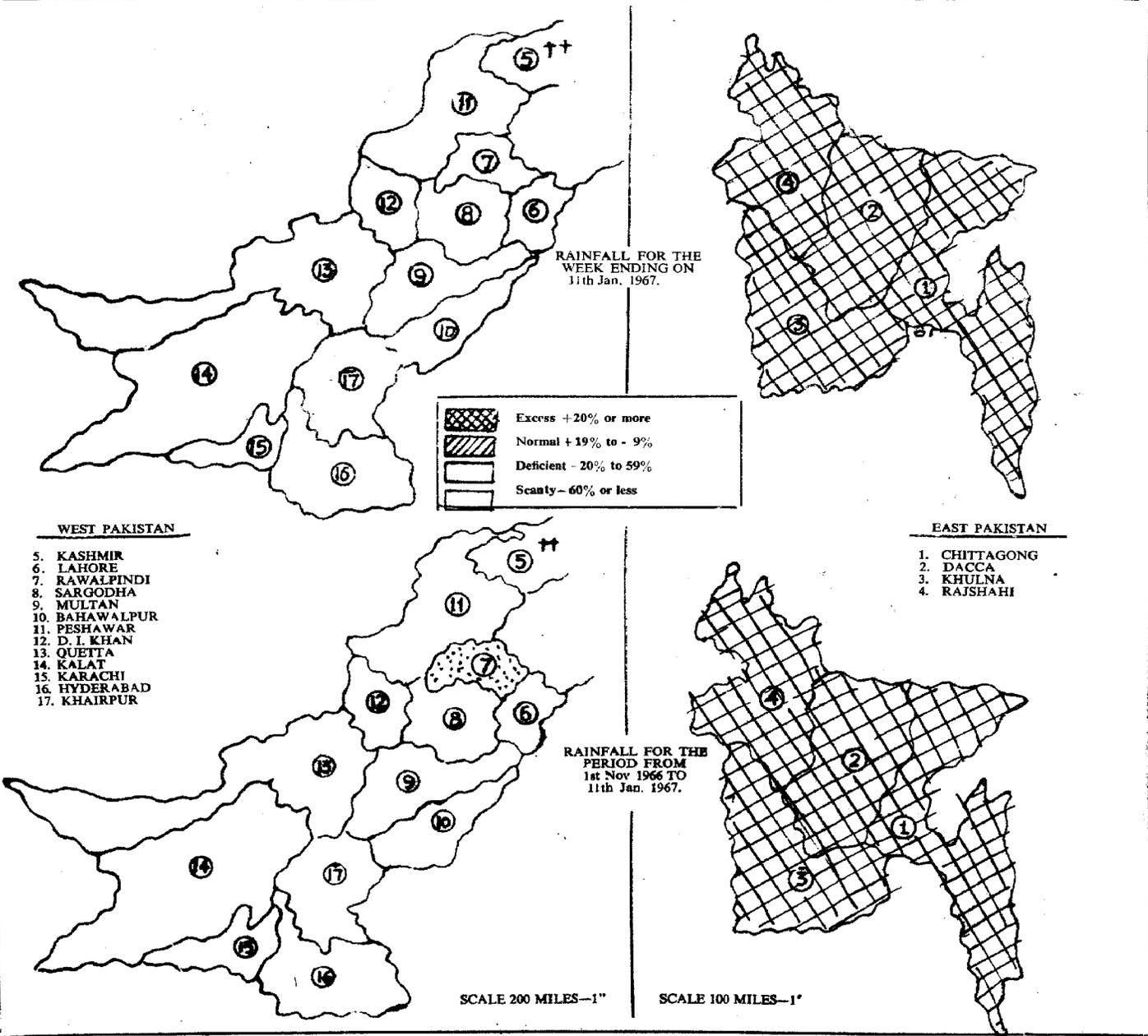
Rainfall for the period from 1st November, 1966 to-date was in large excess in East Pakistan, deficient in Rawalpindi division and scanty in Lahore, Sargodha, Peshawar and Quetta divisions. No rain has so far fallen elsewhere over West Pakistan.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistans, both for the period from 1st November, 1966 to-date.

# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 11th Jan. 1967.			Rainfall for the Period from 1st Nov 1966 to 11th Jan. 1967.			
	† Actual	Normal	* Excess or defect	* Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	1.4	0.1	+ 1.4	6.1	2.3	+ 3.8	+ 163
2. Dacca	0.8	0	+ 0.8	2.7	1.2	+ 1.5	+ 127
3. Khulna	2.2	0	+ 2.2	4.9	1.4	+ 3.5	+ 258
4. Rajshahi	0.3	0	+ 0.3	2.1	0.7	+ 1.3	+ 189
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0	0.2	- 0.2	0.1	1.1	- 1.1	- 95
7. Rawalpindi	0.1	0.6	- 0.6	1.5	2.9	- 1.4	- 47
8. Sargodha	0	0.1	- 0.1	0.1	0.5	- 0.5	- 91
9. Multan	0	0.1	- 0.1	0	0.4	- 0.4	- 100
10. Bahawalpur	0	0	0	0	0.3	- 0.3	- 100
11. Peshawar	0	0.3	- 0.3	0	1.9	- 1.9	- 98
12. D. I. Khan	0	0	0	0	0.7	- 0.7	- 100
13. Quetta	0	0.3	- 0.3	0	1.4	- 1.3	- 99
14. Kalat	0	0.3	- 0.3	0	1.5	- 1.5	- 100
15. Karachi	0	0.1	- 0.1	0	0.7	- 0.7	- 100
16. Hyderabad	0	0.1	- 0.1	0	0.7	- 0.7	- 100
17. Khairpur	0	0	0	0	0.2	- 0.2	- 100
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. Data not available.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 18th January, 1967.

—o:O:o—

## SUMMARY OF WEATHER

**EAST PAKISTAN:** A westerly low pressure wave lay over Bihar on the 12th and gradually moved away northeast wards across the northern parts of the province by the 13th. In its association scattered rain fell in Chittagong division on the 13th. Light rain or drizzle also occurred at a few stations in Chittagong division on the 12th and in Rajshahi division on the 13th. Weather was otherwise dry over the province during the week.

Night temperatures were slightly above normal in Chittagong and Dacca divisions on the 12th, on the whole province on the 13th and again on the 18th and in Chittagong and Rajshahi divisions on the 17th. These were slightly to appreciably below normal in Rajshahi division on the 14th and over the whole province on the 15th and the 16th.

**WEST PAKISTAN:** Cold and dry weather prevailed over the province during the week.

Night temperatures were markedly to considerably below normal in Quetta, Kalat, Hyderabad, Khairpur, Sargodha, Multan and Lahore divisions from the 12th to 14th. These were slightly to appreciably below normal elsewhere over the province during the these days and practically the whole province during the rest of the week.

2. CHITTAGONG DIVISION :	Scattered rain fell on one day.
DACCA DIVISION :	} Weather remained dry during the week.
KHULNA DIVISION :	
RAJSHAHI DIVISION :	Weather remained mainly dry.
KASHMIR :	Data not available.
LAHORE DIVISION :	} Weather remained dry during the week.
RAWALPINDI DIVISION :	
SARGODHA DIVISION :	
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	
D. I. KHAN DIVISION :	
QUETTA DIVISION :	
KALAT DIVISION :	
KARACHI DIVISION :	
HYDERABAD DIVISION :	
KHAIRPUR DIVISION :	
JUNAGADH	Data not available.

3. Based on the data of stations having normals, the week's rainfall was in large excess in Chittagong division whereas no rain fell elsewhere over the country.

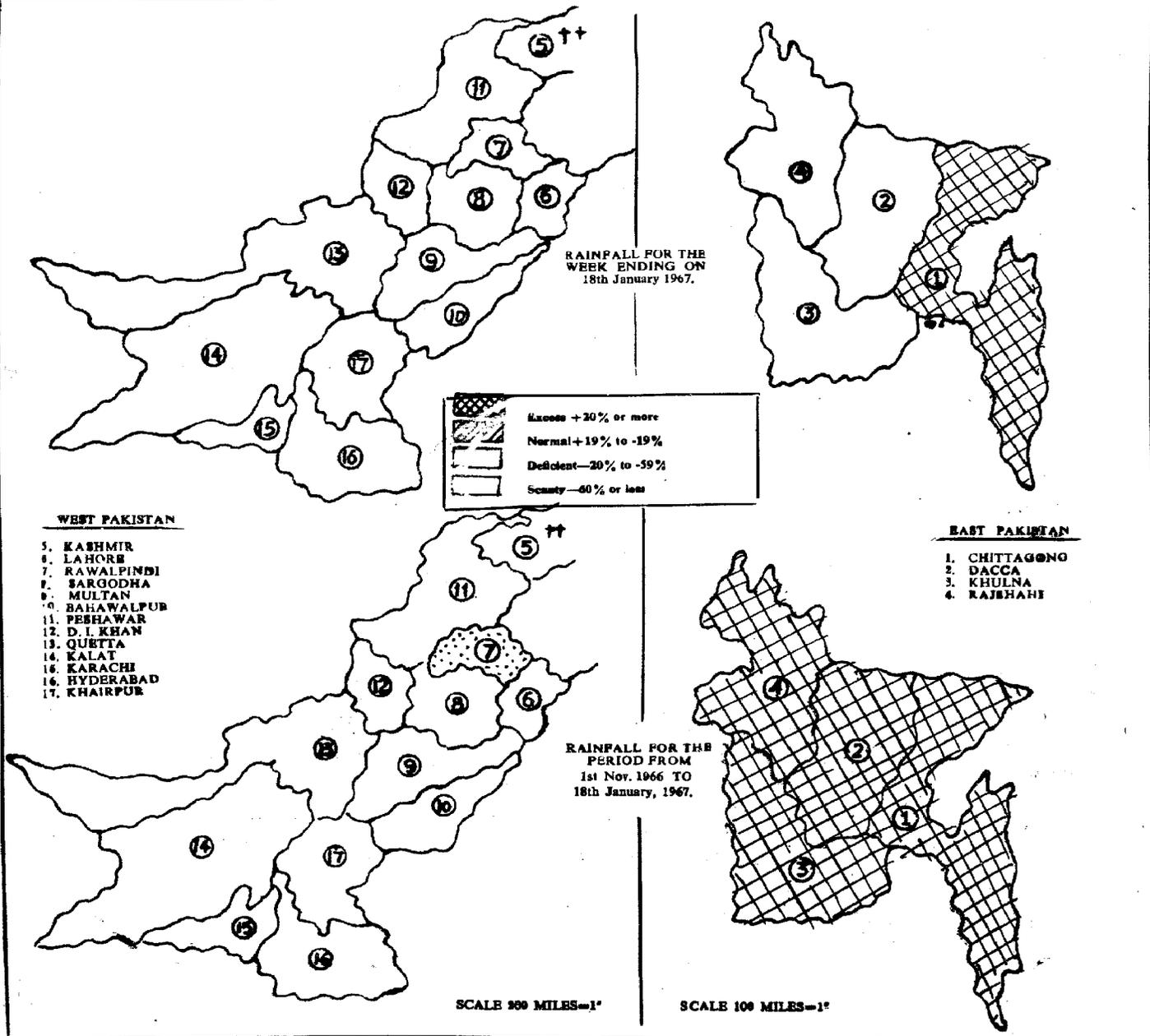
Rainfall for the period from 1st November, 1966 to-date was in large excess in East Pakistan, deficient in Rawalpindi division and scanty in Lahore, Sargodha, Peshawar and Quetta divisions. No rain has fallen so far elsewhere in West Pakistan.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st November, 1966 to-date.

# WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending the 18th January, 1967.			Rainfall for the Period from 1st Nov. 1966. to 18th January, 1967.			
	† Actual	Normal	* Excess or defect	† Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	0.1	0	+ 0.1	6.2	2.4	+ 3.9	+ 164
2. Dacca	0	0	— 0	2.7	1.2	+ 1.5	+ 124
3. Khulna	0	0	— 0	4.9	1.4	+ 3.5	+ 253
4. Rajshahi	0	0.1	— 0.1	2.1	0.8	+ 1.3	+ 163
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0	0.4	— 0.4	0.1	1.5	— 1.4	— 97
7. Rawalpindi	0	0.7	— 0.7	1.5	3.6	+ 2.1	— 57
8. Sargodha	0	0.1	— 0.1	0.1	0.7	0.6	— 93
9. Multan	0	0.1	— 0.1	0	0.5	— 0.5	+ 100
10. Bahawalpur	0	0	— 0	0	0.3	— 0.3	— 100
11. Peshawar	0	0.4	— 0.4	0	2.3	+ 2.2	+ 98
12. D. I. Khan	0	0.2	— 0.2	0	0.9	— 0.9	— 100
13. Quetta	0	0.3	— 0.3	0	1.7	+ 1.7	+ 99
14. Kalat	0	0.4	— 0.4	0	1.9	— 1.9	— 100
15. Karachi	0	0.2	— 0.2	0	0.9	— 0.9	— 100
16. Hyderabad	0	0	— 0	0	0.7	+ 0.7	+ 100
17. Khairpur	0	0.1	— 0.1	0	0.3	— 0.3	— 100
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. ††Data not available.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 25th January, 1967.

—o—o—o—

### SUMMARY OF WEATHER

**EAST PAKISTAN :-** Weather remained dry over the province during the week. Night temperatures were slightly to appreciably above normal over the whole Province during the first two days and only in Chittagong and Rajshahi divisions during the subsequent three days. These were practically normal thereafter.

**WEST PAKISTAN :-** A western disturbance, which lay over northern parts of Quetta and Kalat divisions, on the 23rd, passed off northeastwards across the northern divisions of the province by the 25th. In its association local thunderstorms or showers occurred in Quetta and Peshawar divisions and at a few places in D. I. Khan division on the 24th and only in Peshawar division on the 25th. Fort-Sandeman recorded 1" of rain on the 24th. Weather was otherwise dry over the province during the week.

Night temperatures were slightly to appreciably below normal over the whole province on the 19th, mainly in the southern and central divisions on the 20th and 21st and markedly to considerably below normal in the southern parts of Quetta division northern parts of Kalat division and in Multan, Khairpur and Bahawalpur divisions on the 25th. These were appreciably to markedly above normal in Peshawar, Rawalpindi and Quetta divisions, between the 20th and 23rd and in Lahore, Rawalpindi and Peshawar divisions during the last two days of the week.

2. CHITTAGONG DIVISION :	}	Weather remained dry during the week.
DACCA DIVISION :		
KHULNA DIVISION :		
RAJSHAHI DIVISION :	}	Data not available.
KASHMIR :		
LAHORE DIVISION :	}	Weather remained dry during the week.
RAWALPINDI DIVISION :		
SARGODHA DIVISION :		
MULTAN DIVISION :		
BAHAWALPUR DIVISION :		
PESHAWAR DIVISION :	}	Weather remained mainly dry.
D. I. KAHN DIVISION :		
QUETTA DIVISION :	}	Scattered rainfall on one day.
KALAT DIVISION :		
KARACHI DIVISION :		
HYDERABAD DIVISION :		
KHAIRPUR DIVISION :	}	Weather remained dry during the week.
JUNAGADH		
		Data not available.

3. Based on the data of stations having normals, the week's rainfall was normal in Quetta division and scanty in Peshawar and D. I. Khan divisions whereas no rain fell elsewhere over the country.

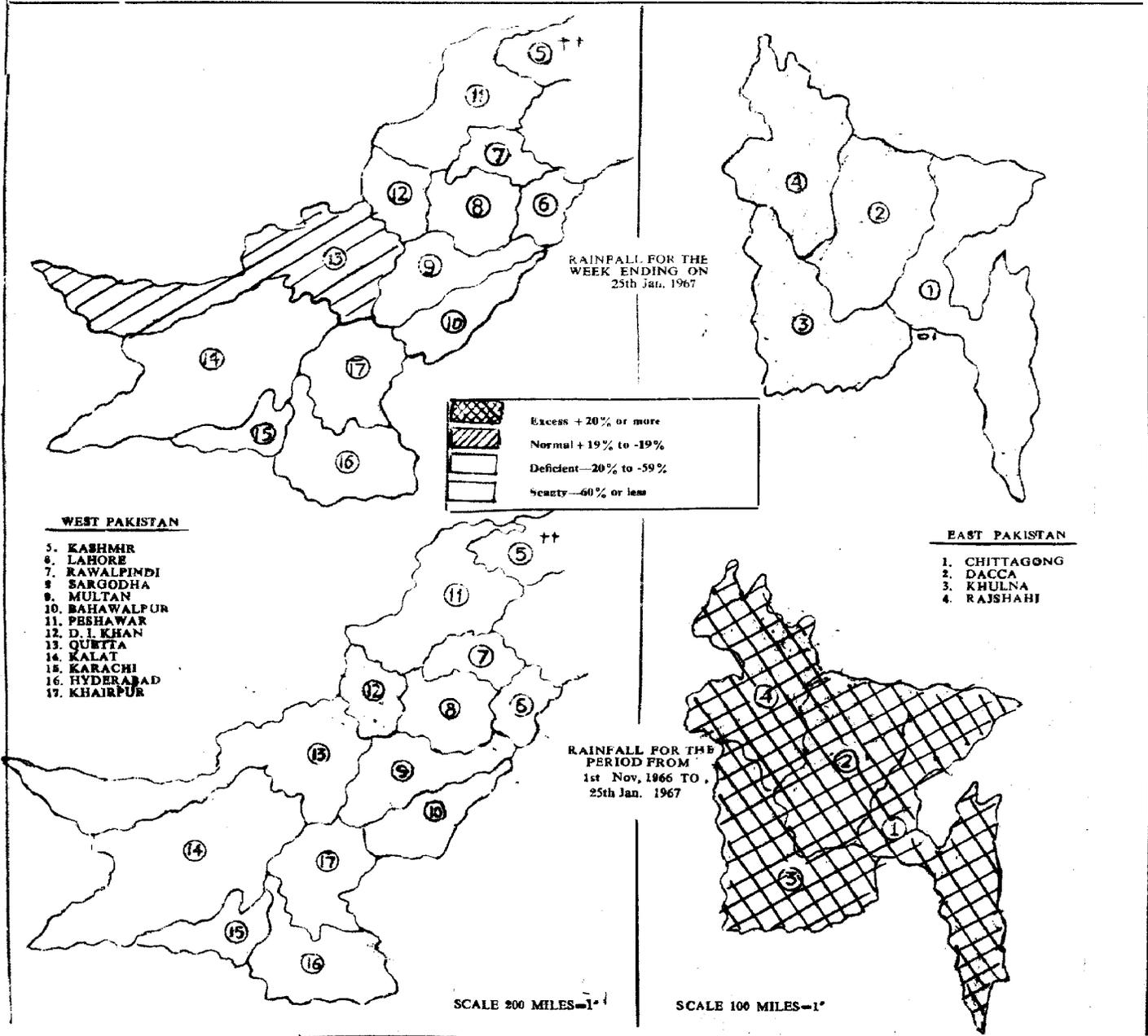
Rainfall for the period from 1st November, 1966 to-date was in large excess in East Pakistan and scanty in Lahore, Rawalpindi, Sargodha, Peshawar, D. I. Khan and Quetta divisions whereas no rain fell has fallen so far elsewhere over West Pakistan.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st November, 1966 to-date.

# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 25th Jan. 1967.			Rainfall for the Period from 1st Nov, 1966 to 25th Jan. 1967.			
	Actual	Normal	*Excess or defect	†Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	0	0.1	- 0.1	6.2	2.4	+ 3.8	+ 155
2. Dacca	0	0.1	- 0.1	2.7	1.3	+ 1.4	+ 105
3. Khulna	0	0.1	- 0.1	4.9	1.5	+ 3.4	+ 223
4. Rajshahi	0	0.1	- 0.1	2.1	0.9	+ 1.2	+ 130
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0	0.4	- 0.4	0.1	1.0	- 1.9	- 97
7. Rawalpindi	0	0.8	- 0.8	1.5	4.4	- 2.9	- 65
8. Sargodha	0	0.2	- 0.2	0.1	0.9	- 0.8	- 94
9. Multan	0	0.1	- 0.1	0	0.6	- 0.6	- 100
10. Bahawalpur	0	0.1	- 0.1	0	0.4	- 0.4	- 100
11. Peshawar	0	0.6	- 0.6	0	2.8	- 2.8	- 99
12. D. I. Khan	0	0.1	- 0.1	0	1.0	- 1.0	- 98
13. Quetta	0.2	0.3	0	3	1.9	- 1.7	- 87
14. Kalat	0	0.4	- 0.4	0	2.3	- 2.3	- 100
15. Karachi	0	0.2	- 0.2	0	1.1	- 1.1	- 100
16. Hyderabad	0	0	0	0	0.7	- 0.7	- 100
17. Khairpur	0	0.1	- 0.1	0	0.4	- 0.4	- 100
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. ††Data not available.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 1st February, 1967.

—o:O:o—

## SUMMARY OF WEATHER

EAST PAKISTAN:- Weather remained mainly dry over the province during the week.

Night temperatures were slightly to appreciably above normal over the province during the first five days of the week but became slightly below normal during the last two days.

WEST PAKISTAN:- A feeble western disturbance, which lay over Afghanistan on the 26th, moved away northeastwards across the northern parts of the province after causing scattered thunderstorms or light showers in the plains and snowfall over the hills in Peshawar and Rawalpindi divisions on the 28th. Weather was otherwise mainly dry over the province during the week.

Night temperatures were markedly to considerably below normal in Quetta division and the northern parts of Kalat division during the first four days of the week. These were otherwise slightly to appreciably below normal in the province during the week except on the last day when these were slightly above normal in Quetta division.

2. CHITTAGONG DIVISION :	Weather remained mainly dry.
DACCA DIVISION :	} Weather remained dry.
KHULNA DIVISION :	
RAJSHAHI DIVISION :	
KASHMIR :	Data not available.
LAHORE DIVISION :	Weather remained dry.
RAWALPINDI DIVISION :	Weather remained mainly dry.
SARGODHA DIVISION :	} Weather remained dry.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Weather remained mainly dry.
D. I. KHAN DIVISION :	} Weather remained dry.
QUETTA DIVISION :	
KALAT DIVISION :	
KARACHI DIVISION :	
HYDERABAD DIVISION :	
KHAIRPUR DIVISION :	
JUNAGADH	Data not available.

3. Based on the data of stations having normals, the week's rainfall was scanty in Rawalpindi and Peshawar divisions whereas no rainfall occurred elsewhere over the country.

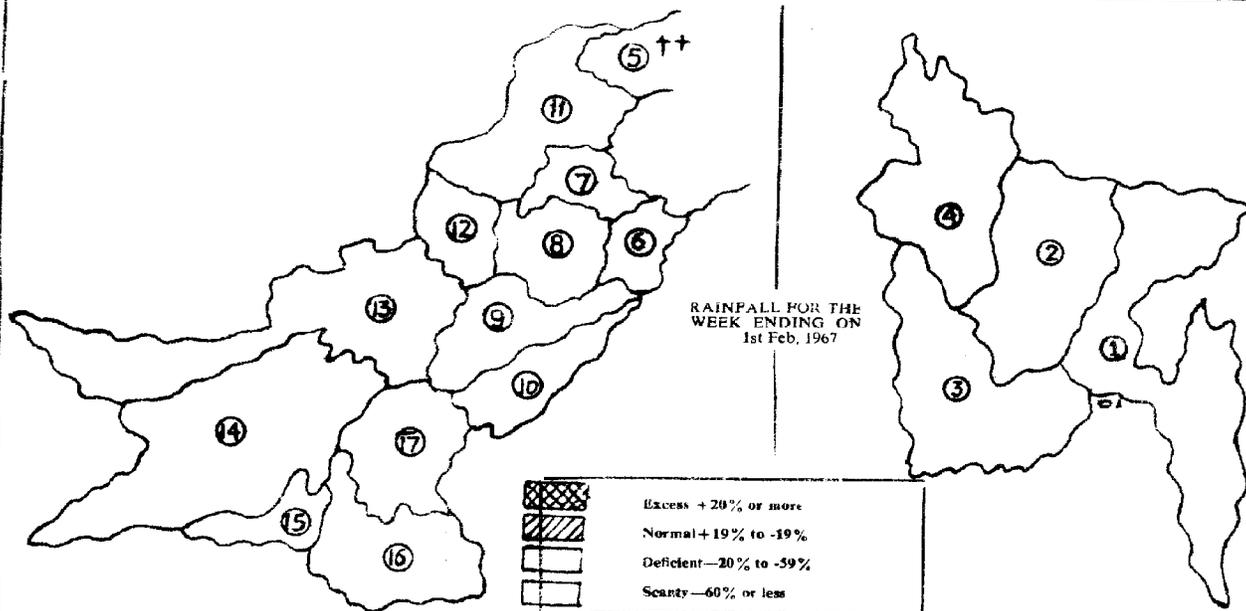
Rainfall for the period from 1st November, 1966, to-date was in large excess in East Pakistan and scanty in Lahore, Rawalpindi, Sargodha, Peshawar, D. I. Khan and Quetta divisions. Where as no rain has fallen so far over the rest of West Pakistan.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st November, 1966, to-date.

# WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending the 1st Feb. 1967.			Rainfall for the Period from 1st Nov, 1966 to 1st Feb. 1967.			
	Actual	Normal	*Excess or defect	Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	0	0.1	0.1	6.2	2.6	+ 3.7	+ 143
2. Dacca	0	0.2	0.2	2.7	1.5	+ 1.2	+ 77
3. Khulna	0	0.2	0.2	4.9	1.7	+ 3.2	+ 188
4. Rajshahi	0	0.1	0.1	2.1	1.0	+ 1.0	+ 97
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0	0.4	— 0.4	0.1	2.3	— 2.8	— 98
7. Rawalpindi	0	0.9	— 0.9	1.5	5.3	— 3.8	— 71
8. Sargodha	0	0.1	— 0.1	0.1	1.0	— 1.0	— 95
9. Multan	0	0.1	— 0.1	0	0.8	— 0.8	— 100
10. Bahawalpur	0	0.1	— 0.1	0	0.5	— 0.5	— 100
11. Peshawar	0	0.6	— 0.6	0	3.5	— 3.4	— 99
12. D. I. Khan	0	0.3	— 0.3	0	1.3	— 1.3	— 98
13. Quetta	0	0.4	— 0.4	0.3	2.3	— 2.1	— 89
14. Kalat	0	0.5	— 0.5	0	2.8	— 2.8	— 100
15. Karachi	0	0.5	— 0.5	0	1.6	— 1.6	— 100
16. Hyderabad	0	0.1	— 0.1	0	0.9	— 0.9	— 100
17. Khairpur	0	0.1	— 0.1	0	0.5	— 0.5	— 100
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. ††Data not available.

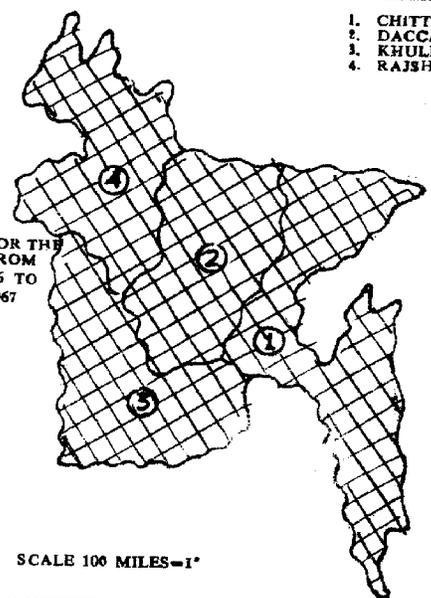
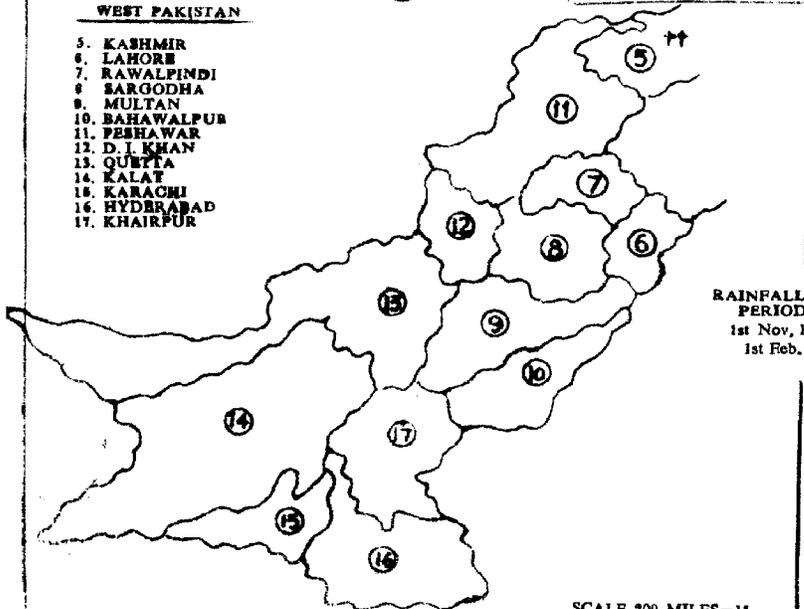


**WEST PAKISTAN**

- 5. KASHMIR
- 6. LAHORE
- 7. RAWALPINDI
- 8. SARGODHA
- 9. MULTAN
- 10. BAHAWALPUR
- 11. PESHAWAR
- 12. D. I. KHAN
- 13. QUETTA
- 14. KALAT
- 15. KARACHI
- 16. HYDRABAD
- 17. KHAIRPUR

**EAST PAKISTAN**

- 1. CHITTAGONG
- 2. DACCA
- 3. KHULNA
- 4. RAJSHAHI



SCALE 200 MILES=1"

SCALE 100 MILES=1"

## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 8th February, 1967.

—oO:—

### SUMMARY OF WEATHER

**EAST PAKISTAN:-** A westerly low pressure wave moved across the northern parts of East Pakistan during the last three days of the week. It caused scattered rain or thundershowers in Chittagong Division on the last two days. Sylhet recorded  $\frac{1}{8}$ " rain on the 7th and  $\frac{1}{4}$ " on the 8th. Weather was mainly dry during the rest of the week.

Night temperatures were slightly below normal in Dacca and Chittagong Divisions during the first four days and slightly to appreciably above normal over the whole Province during the last three days of the week.

**WEST PAKISTAN:-** A western disturbance lay over Quetta and Kalat Divisions on the first day of the week and moved away northeastwards across the northern and central Divisions of the Province by 4th after causing scattered light rain or drizzle in Quetta, Peshawar and Rawalpindi Divisions during the first four days of the week.

Another western disturbance moved to Rawalpindi Division during the last three days of the week. Under its influence scattered to local rain or drizzle fell in Kalat, Quetta, D. I. Khan, Peshawar and Rawalpindi Divisions between the 6th and the 8th.

Chief amount of rainfall were Parachinar  $\frac{1}{8}$ " on the 7th and Drosch, Chakdara and Kakul  $\frac{3}{4}$ " each and Prachinar  $\frac{1}{4}$ " on the 8th. Night temperatures were slightly to markedly above normal practically over the whole Province during the week.

2. CHITTAGONG DIVISION :	Scattered rain fell on two day.
DACCA DIVISION :	} Weather remained dry.
KHULNA DIVISION :	
RAJSHAHI DIVISION :	
KASHMIR DIVISION :	Data not available.
LAHORE DIVISION :	Weather remained dry.
RAWALPINDI DIVISION :	Local rain fell on one day.
SARGODHA DIVISION :	} Weather remained dry.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Local rain fell on one day and scattered on two days.
D. I. KAHN DIVISION :	Weather remained mainly dry.
QUETTA DIVISION :	Scattered rain fell on one day.
KALAT DIVISION :	Scattered rain fell on one day.
KARACHI DIVISION :	} Weather remained dry.
HYDERABAD DIVISION :	
KHAIRPUR DIVISION :	
JUNAGADH	Data not available.

3. Based on the data of stations having normals, the week's rainfall was scanty in the Chittagong, Rawalpindi, D. I. Khan, Quetta and Kalat Divisions, No rain fell elsewhere over the country.

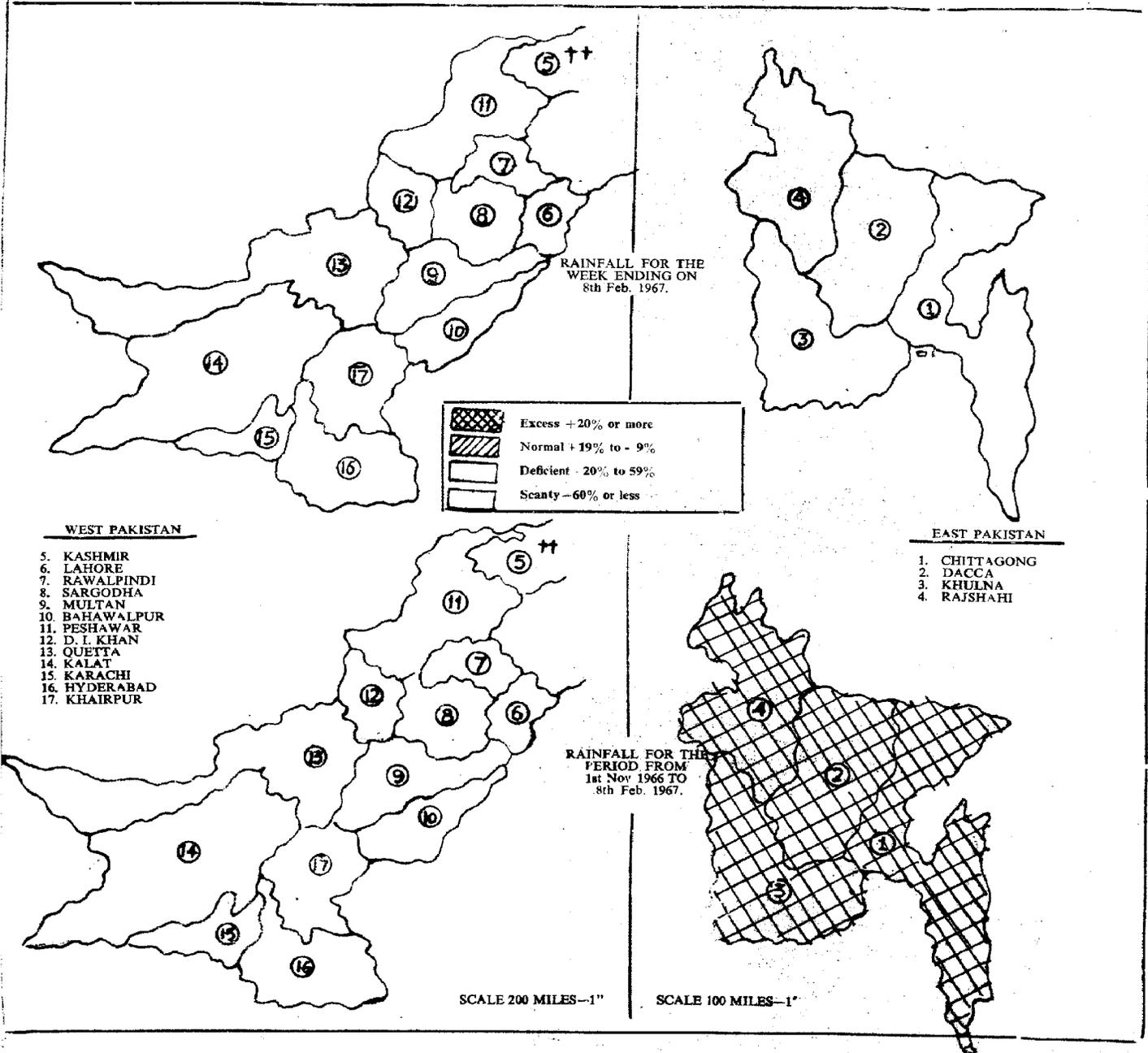
Rainfall for the period from 1st November, 1966 to-date was in large excess in East Pakistan. No rain fell in Multan, Bahawalpur, Karachi, Hyderabad and Khairpur Divisions, elsewhere in West Pakistan, rainfall was scanty.

4. The table overleaf summarises the rainfall statistics for the eighteen Divisions of Pakistan, both for the week and for the period from 1st. November, 1966 to-date.

# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 8th Feb. 1967.			Rainfall for the Period from 1st Nov. 1966 to 8th Feb. 1967.			
	† Actual	Normal	*Excess or defect	*Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	0	0.1	— 0.1	6.2	2.6	+ 3.6	+ 141
2. Dacca	0	0.2	— 0.2	2.7	1.5	+ 1.2	+ 82
3. Khulna	0	0.1	— 0.1	4.9	1.7	+ 3.2	+ 195
4. Rajshahi	0	0.1	— 0.1	2.1	1.0	+ 1.0	+ 99
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0	0.3	— 0.3	0.1	2.2	— 2.2	— 98
7. Rawalpindi	0.2	0.9	— 0.7	1.7	5.3	— 3.4	— 65
8. Sargodha	0	0.2	— 0.2	0.1	1.1	— 1.0	— 95
9. Multan	0	0.2	— 0.2	0	0.8	— 0.8	— 100
10. Bahawalpur	0	0.1	— 0.1	0	0.5	— 0.5	— 100
11. Peshawar	0.1	0.6	— 0.6	0.1	3.5	— 3.4	— 97
12. D. I. Khan	0	0.3	— 0.3	0	1.3	— 1.3	— 97
13. Quetta	0.1	0.4	— 0.3	0.3	2.4	— 2.0	— 85
14. Kalat	0.1	0.4	— 0.4	0.1	2.7	— 2.7	— 98
15. Karachi	0	0.4	— 0.4	0	1.6	— 1.6	— 100
16. Hyderabad	0	0.1	— 0.1	0	0.8	— 0.8	— 100
17. Khairpur	0	0.1	— 0.1	0	0.5	— 0.5	— 100
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01\*  
 † Rainfall of stations having no normals is not included.  
 †† Data not available



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 15th February, 1967.

—o:0:o—

## SUMMARY OF WEATHER

**EAST PAKISTAN:-** A low pressure area developed over West Bengal and adjoining East Pakistan on the 12th and after causing scattered to local thunderrain/light Showers in Dacca, Khulna, and Rajshahi Divisions on the 12th and 13th moved away northeastwards on the 14th.

Night temperatures were appreciably to considerably above normal over the Province except on the last day when these were slightly above normal.

**WEST PAKISTAN :-** Last week's western disturbance over Rawalpindi division moved away Northeastwards across Kashmir by the 11th after causing a few falls of light rain or drizzle in Rawalpindi and Sargodha divisions on the 10th and 11th.

Another western disturbance moved from Afghanistan to the Northern divisions of the Province during the last two days of the week while its secondary moved across Quetta and Kalat divisions. They caused a few falls of light rain or drizzle in Sargodha, Bahawalpur, Peshawar Quetta, Kalat and Khairpur divisions on the 14th and at a number of places in Peshawar division, and at a few places in Sargodha and Quetta divisions on the 15th Kalat recorded  $\frac{1}{4}$ " rain on the 14th and Parachinar  $\frac{1}{4}$ " on the 15th.

Night temperatures were slightly to markedly above normal in the northern divisions and to the same extent below normal generally in the southern and central divisions during the first four days of the week. These were considerably above normal in the northern and slightly to markedly so elsewhere over the province during the last three days.

2. CHITTAGONG DIVISION :	Weather remained dry.
DACCA DIVISION :	Weather remained mainly dry.
KHULNA DIVISION :	Scattered rain fell on one day.
RAJSHAHI DIVISION :	Scattered rain fell on one day.
KASHMIR :	Data not available.
LAHORE DIVISION :	} Weather remained dry.
RAWALPINDI DIVISION :	
SARGODHA DIVISION :	
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Scattered rain fell on one day.
D. I. KHAN DIVISION :	Weather remained dry.
QUETTA DIVISION :	Weather remained mainly dry.
KALAT DIVISION :	Scattered rain fell on one day.
KARACHI DIVISION :	} Weather remained dry.
HYDERABAD DIVISION :	
KHAIRPUR DIVISION :	
JUNAGADH	Data not available.

3. Based on the data of stations having normals, the week's rainfall was scanty in Khulna and Kalat divisions. No rain fell elsewhere in the country.

Rainfall for the period from 1st November, 1966, to-date was in large excess in East Pakistan, scanty in Lahore, Rawalpindi, Sargodha, Peshawar, Quetta and Kalat divisions whereas no rain has fallen so far elsewhere over the country.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for period from 1st November, 1966, to-date.

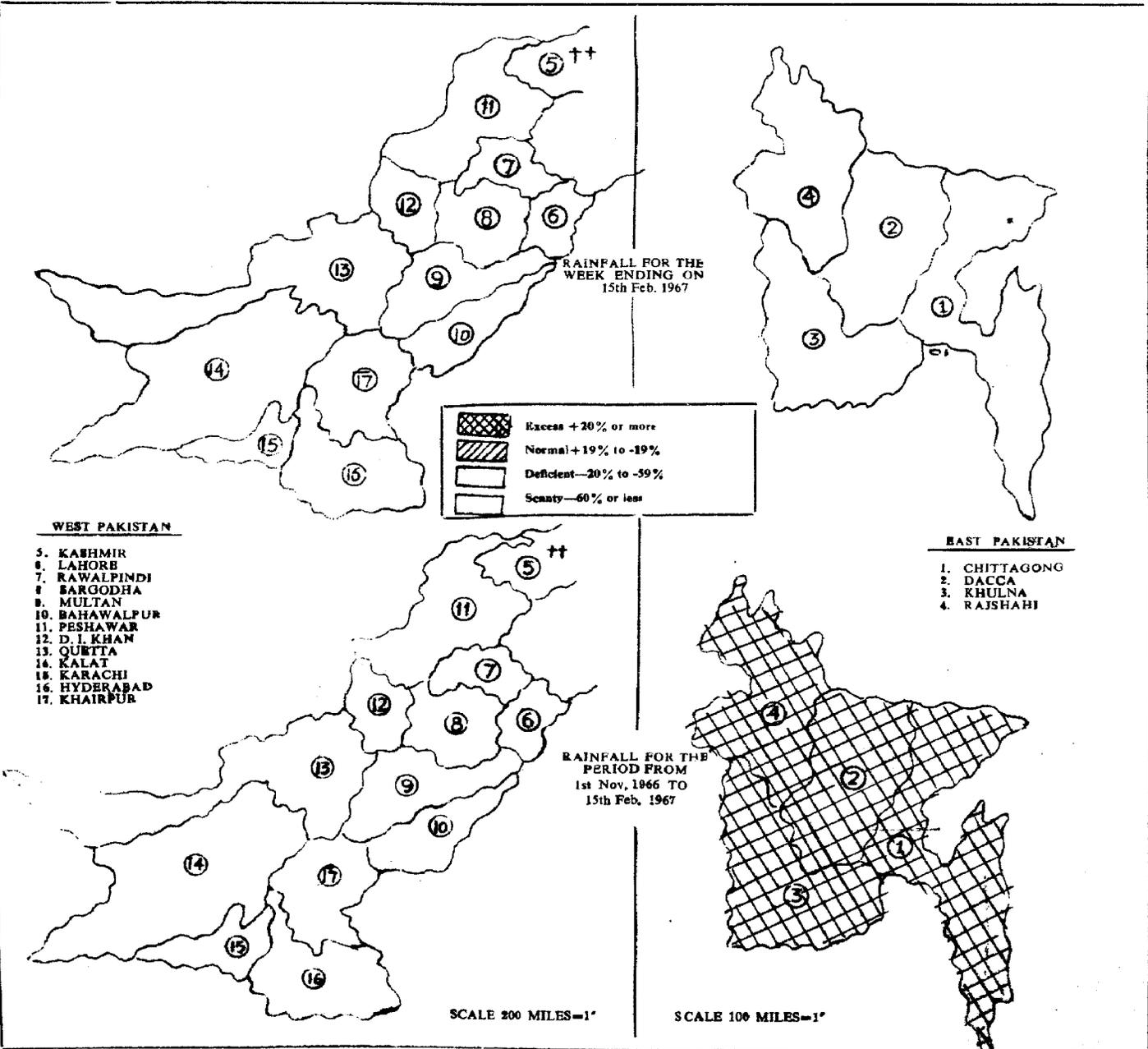
Karachi—11  
The 15th February, 1967

N. A. QURESHI  
for Director, Meteorological Service.

# WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending the 15th Feb. 1967.			Rainfall for the Period from 1st Nov, 1966 to 15th Feb. 1967.			
	† Actual	Normal	* Excess or defect	† Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	0	0.2	- 0.2	6.2	2.8	+ 3.4	+ 121
2. Dacca	0	0.3	- 0.3	2.7	1.7	+ 0.9	+ 53
3. Khulna	0.1	0.3	- 0.2	4.9	1.9	+ 3.0	+ 155
4. Rajshahi	0	0.2	- 0.2	2.1	1.2	+ 0.8	+ 68
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0.4	0.4	- 0.4	0.1	2.6	+ 2.5	- 94
7. Rawalpindi	0	0.7	- 0.7	1.7	6.0	- 4.2	- 71
8. Sargodha	0	0.2	- 0.2	0.1	1.3	- 1.2	- 96
9. Multan	0	0.1	- 0.1	0	0.9	- 0.9	- 100
10. Bahawalpur	0	0.1	- 0.1	0	0.6	- 0.6	- 100
11. Peshawar	0	0.8	- 0.8	0.1	4.3	- 3.3	- 77
12. D. I. Khan	0	0.2	- 0.2	0	1.5	- 1.5	- 98
13. Quetta	0	0.4	- 0.4	0.4	2.8	- 2.4	- 97
14. Kalat	0	0.4	- 0.3	0.2	3.1	- 2.9	- 95
15. Karachi	0	0.2	- 0.2	0	1.8	- 1.8	- 100
16. Hyderabad	0	0.1	- 0.1	0	0.9	- 0.9	- 100
17. Khairpur	0	0.1	- 0.1	0	0.6	- 0.6	- 100
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. ††Data not available.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 22nd February, 1967.

—o:O:o—

### SUMMARY OF WEATHER

**EAST PAKISTAN:-** Weather remained dry over the province during the week.

Night temperatures were appreciably to markedly above normal in Khulna division throughout week and in Dacca and Chittagong divisions during the last three days. These were slightly to appreciably above normal, otherwise over the province during the week.

**WEST PAKISTAN:-** Last week's western disturbance over the northern divisions of the province and its secondary over Quetta and Kalat divisions moved away northeastwards by the 17th. These were closely followed by two more western disturbances, which moved across the northern and central divisions of the province between the 18th and the 22nd. The passage of these disturbances in quick succession caused almost a continuous spell of wet weather in the northern and some of the central divisions during the week. Rain or thunder-showers were fairly widespread to widespread in Peshawar and Rawalpindi divisions between the 16th and the 18th, in these divisions and in Lahore, Sargodha and Quetta divisions between the 19th and 21st. These were scattered to local in Quetta, D. I. Khan, Sargodha, Bhawalpur, Kalat and Lahore divisions during the first three days of the week and in Kalat, Multan, Bahawalpur and D. I. Khan divisions during the subsequent three days. A few falls of light rain/drizzle also occurred in Peshawar and Quetta divisions on the last day of the week.

Chief amounts of rainfall recorded Harnai 1" on the 16th, Chakdara and Kakul 2" each Cherat 1½" and Murree, Landikotal, Wana and Harnai 1" each on the 17th, Harnai and Samungli 1" each on the 18th, Kalat 1½" and Murree, Chakdara, Cherat, Chaman and Kakul 1" each on the 19th, Murtee 4" Kakul and Haripur 2" each and Cherat 1" on the 20th and Jhelum, Haripur and Murree 1" each on the 21st.

Night temperatures were slightly to appreciably below normal in Quetta, Kalat and Peshawar divisions on the 21st and practically over the whole province on 22nd. These were otherwise appreciably to markedly above normal, during the week.

2. CHITTAGONG DIVISION :	}	Weather remained dry.	
DACCA DIVISION :			
KHULNA DIVISION :			
RAJSHAHI DIVISION :	}	Data not available.	
KASHMIR :		Widespread rainfall on two days and local on one day.	
LAHORE DIVISION :		Rainfall was fairly widespread on two days and local on three days.	
RAWALPINDI DIVISION :		Fairly widespread rain fell on two days.	
SARGODHA DIVISION :		Local rain fell on three days.	
MULTAN DIVISION :		Local rain fell on two days.	
BAHAWALPUR DIVISION :		Widespread rain fell on three days, Fairly widespread on one day and local on two days.	
PESHAWAR DIVISION :		Local rain fell on one day and scattered on three days.	
D. I. KHAN DIVISION :		Local rain fell on five days.	
QUETTA DIVISION :		Scattered rain fell on four day.	
KALAT DIVISION :		}	Weather remained dry.
KARACHI DIVISION :			
HYDERABAD DIVISION :		Weather remained mainly dry.	
KHAIRPUR DIVISION:	}	Data not available.	
JUNAGADH			

3. Based on the data of stations having normals, the week's rainfall was in large excess in Lahore, Rawalpindi, Multan, Bahawalpur, Peshawar, Quetta and Kalat divisions, in excess in Sargodha division, normal in D. I. Khan division, and deficient in Khairpur division. No rain fell elsewhere in the country.

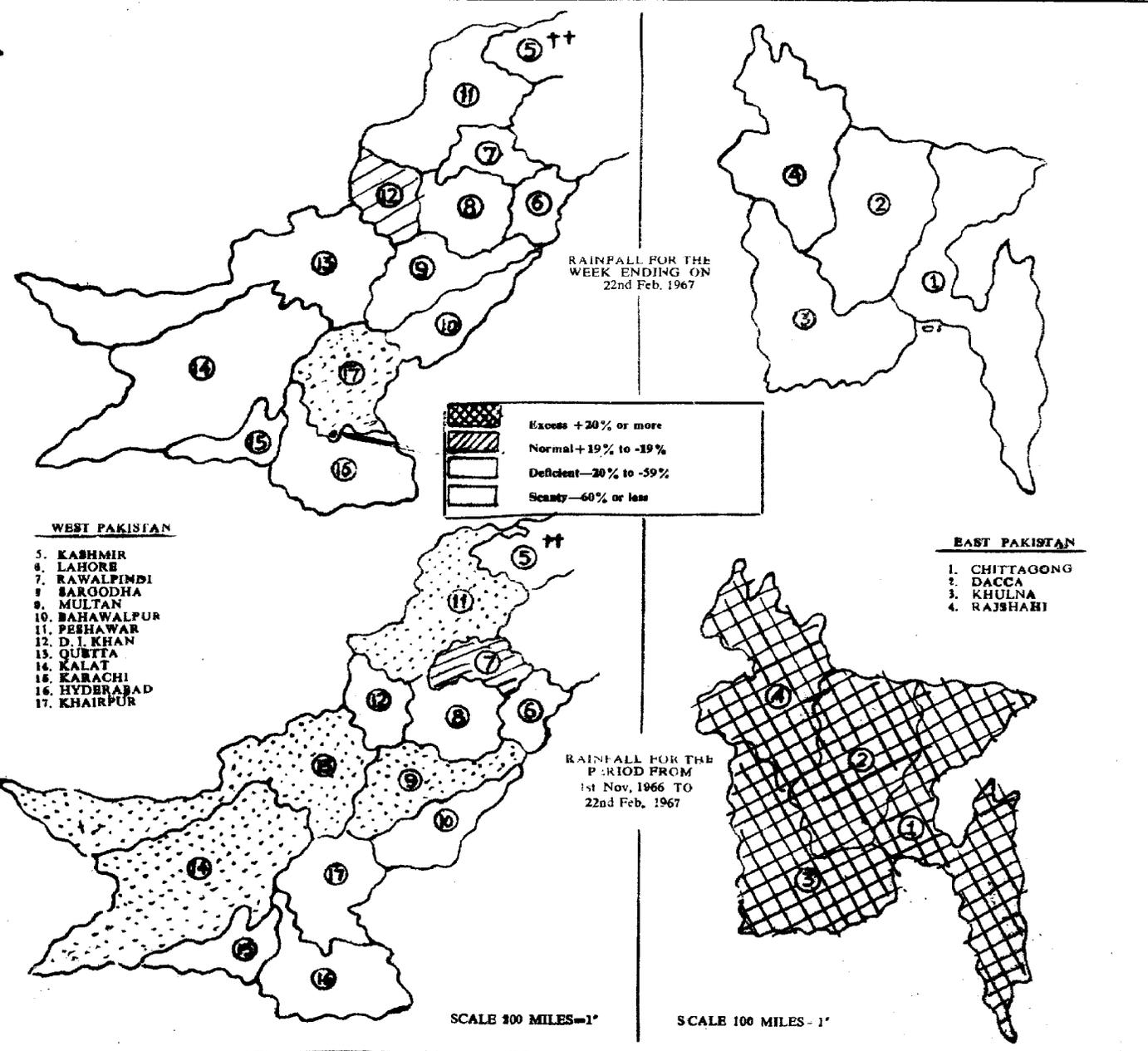
Rainfall for the period from 1st November, 1966, to-date was in large excess in Chittagong and Khulna divisions, in excess in Dacca and Rajshahi divisions and normal in Rawalpindi divisions and deficient in Multan, Peshawar, Quetta and Kalat divisions and scanty elsewhere over the country.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st November, 1966, to-date.

# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 22nd Feb. 1967.			Rainfall for the Period from 1st Nov, 1966 to 22nd Feb. 1967.			
	† Actual	Normal	*Excess or defect	† Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	0	0.4	- 0.4	6.2	3.2	+ 3.0	+ 94
2. Dacca	0	0.3	- 0.3	2.7	2.1	+ 0.6	+ 30
3. Khulna	0	0.3	- 0.3	4.9	2.3	+ 2.7	+ 117
4. Rajshahi	0	0.2	- 0.2	2.1	1.4	+ 0.6	+ 44
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0.8	0.3	+ 0.4	0.8	2.9	- 2.1	- 72
7. Rawalpindi	5.0	0.9	+ 4.2	6.7	6.8	- 0.1	- 1
8. Sargodha	0.3	0.2	+ 0.1	0.3	1.5	- 1.2	- 79
9. Multan	0.5	0.1	+ 0.4	0.5	1.0	- 0.5	- 49
10. Bahawalpur	0.2	0.1	+ 0.1	0.2	0.6	- 0.4	- 65
11. Peshawar	3.0	0.6	+ 2.4	3.1	4.9	- 1.8	- 36
12. D. I. Khan	0.5	0.5	0	0.5	2.0	- 1.5	- 75
13. Quetta	1.9	0.3	+ 1.6	2.2	3.1	- 0.9	- 28
14. Kalat	1.1	0.3	+ 0.7	1.2	3.4	- 2.2	- 54
15. Karachi	0	0.3	- 0.3	0	2.0	- 2.0	- 100
16. Hyderabad	0	0.1	- 0.1	0	1.0	- 1.0	- 100
17. Khairpur	0	0.1	0	0	0.7	- 0.6	- 95
18. Junagadh	—	—	—	—	—	—	—

\* In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01'  
 † Rainfall of stations having no normals is not included. †† Data not available.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 1st March, 1967.

—o:O:o—

## SUMMARY OF WEATHER

EAST PAKISTAN:- Weather remained dry over the province during the week.

Night temperatures were markedly above normal in Chittagong Division and slightly to appreciably above normal elsewhere over the Province on the 23rd. These were, otherwise, slightly to appreciably below normal.

WEST PAKISTAN:- Last week's western disturbance over East Iran moved away across Peshawar Division by the 25th after causing a few falls of rain/drizzle in Quetta Division on the 23rd.

Thereafter a western disturbance lying over central and East Iran induced a secondary low over Afghanistan and adjoining West Pakistan on 27th. The system moved away slowly eastwards by the end of the week after causing a few falls of rain or drizzle in Rawalpindi and Sargodha Divisions on the 28th and local rain/drizzle in Peshawar Division on the 28th and 1st, and scattered in Rawalpindi Division on the 1st.

Chief amounts of rain fall were Drosh, Chakdara and Parachinar  $\frac{1}{4}$ " each on the 28th, Landikotal  $\frac{1}{4}$ ", Murree and Drosh  $\frac{1}{4}$ " each on the 1st.

Night temperatures were slightly to appreciably below normal over the whole Province on the 23rd, over the Northern and central Divisions on the 24th and 25th, in the extreme northeastern Divisions on the 26th and appreciably to markedly below normal over South western Divisions on the 1st. There were otherwise, slightly to appreciably above normal.

2. CHITTAGONG DIVISION :	}	Weather remained dry.
DACCA DIVISION :		
KHULNA DIVISION :		
RAJSHAHI DIVISION :		
KASHMIR :		Data not available.
LAHORE DIVISION :		Weather remained mainly dry.
RAWALPINDI DIVISION :		Scattered rain fell on one day.
SARGODHA DIVISION :	}	Weather remained dry.
MULTAN DIVISION :		
BAHAWALPUR DIVISION :		
PESHAWAR DIVISION :		Local rain fell on two days,
D. I. KHAN DIVISION :		Weather remained mainly dry.
QUETTA DIVISION :		
KALAT DIVISION :	}	Weather remained dry.
KARACHI DIVISION :		
HYDERABAD DIVISION :		
KHAIRPUR DIVISION :		
JUNAGADH		Data not available.

3. Based on the data of stations having normals, the week's rainfall was scanty in Lahore, Rawalpindi and Peshawar Divisions. No rain fell elsewhere in the country.

Rainfall for the period from 1st November 66 to-date was in large excess in Chittagong and Khulna Divisions, in deficient in Multan, Peshawar and Quetta Divisions and scanty elsewhere in the country except in Karachi, Khairpur and Hyderabad Divisions where no rain has so far fallen.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st November, 1966 to-date.

Karachi - 11

The 1st March, 1967

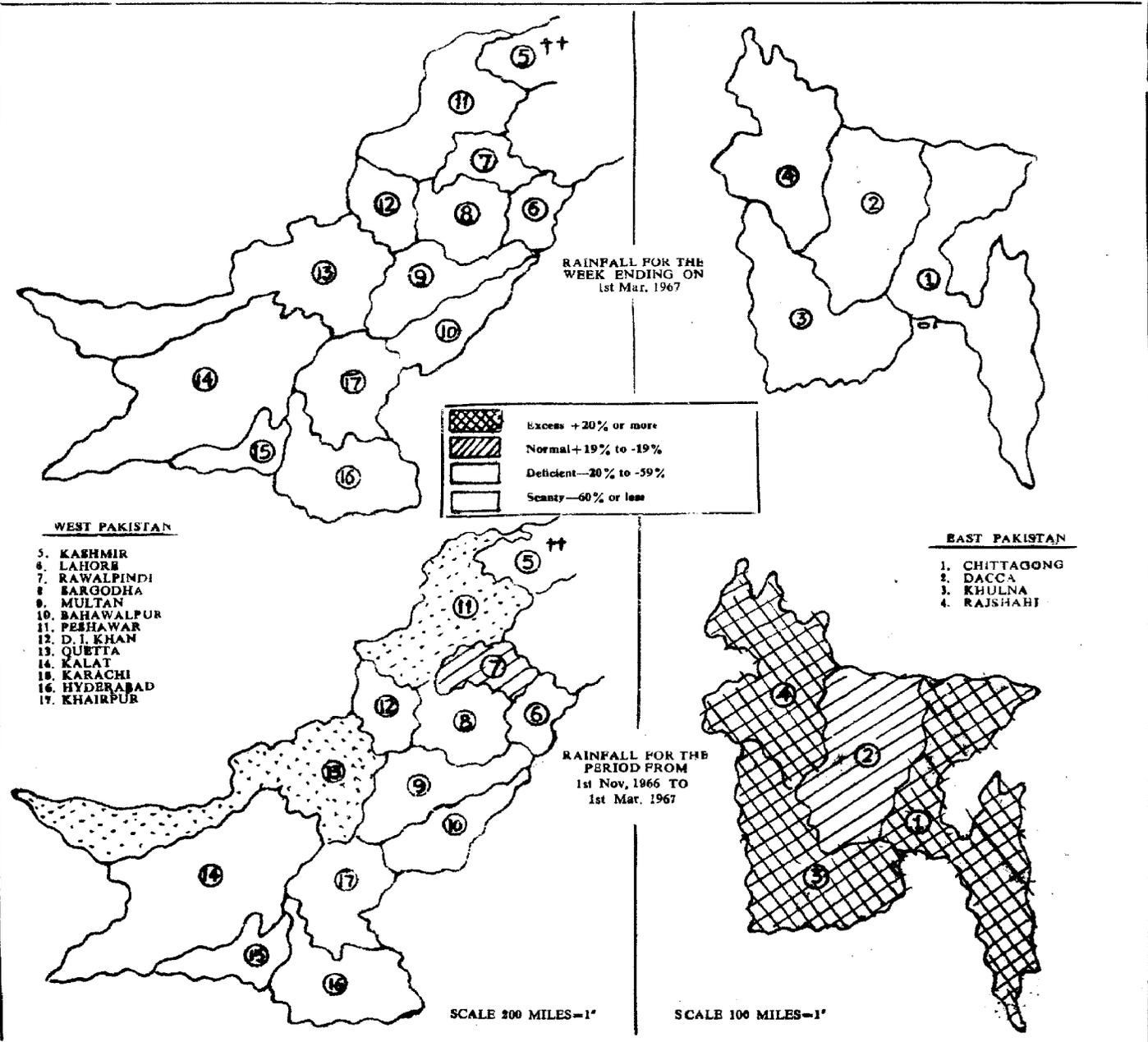
N. A. QURESHI

for Director, Meteorological Service.

# WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending the 1st Mar. 1967.			Rainfall for the Period from 1st Nov, 1966 to 1st Mar. 1967.			
	Actual	Normal	*Excess or defect	Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	0	0.4	- 0.4	6.2	3.6	+ 2.7	+ 74
2. Dacca	0	0.3	- 0.3	2.7	2.4	+ 0.3	+ 11
3. Khulna	0	0.3	- 0.3	4.9	2.6	+ 2.6	+ 91
4. Rajshahi	0	0.2	- 0.2	2.1	1.6	+ 0.4	+ 27
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0	0.3	- 0.3	0.8	3.3	- 2.4	- 74
7. Rawalpindi	0.2	1.0	- 0.8	6.9	7.8	- 0.9	- 11
8. Sargodha	0	0.2	- 0.2	0.3	1.6	- 1.3	- 81
9. Multan	0	0.1	- 0.1	0.5	1.1	- 0.6	- 53
10. Bahawalpur	0	0.1	- 0.1	0.2	0.7	- 0.5	- 70
11. Peshawar	0	0.3	- 0.3	3.1	5.2	- 2.1	- 52
12. D. I. Khan	0	0.5	- 0.5	0.5	2.5	- 2.0	- 81
13. Quetta	0	0.3	- 0.3	2.2	3.3	- 1.1	- 34
14. Kalat	0	0.2	- 0.2	1.2	3.6	- 2.4	- 66
15. Karachi	0	0.4	- 0.4	0	2.4	- 2.4	- 100
16. Hyderabad	0	0.1	- 0.1	0	1.1	- 1.1	- 100
17. Khairpur	0	0.1	- 0.1	0	0.7	- 0.7	- 96
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01'  
 † Rainfall of stations having no normals is not included. ††Data not available.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 8th March, 1967.

—oOo—

## SUMMARY OF WEATHER

West Pakistan:- A westerly low pressure wave moving across the northern parts of Province induced a secondary circulation over Bihar and neighbourhood on the 6th and scattered rain/thundershowers in Dacca, Khulna and Chittagong divisions on the 7th.

Chief amounts of rainfall reported were Barisal  $3/4"$ , Narayangang  $1/4"$  and Sylhat  $1/4"$  on the 7th.

Night temperatures were slightly below normal in Chittagong division on the 2nd and in Khulna division on the 3rd otherwise there were generally slightly to appreciably above normal over the Province.

West Pakistan:- A western disturbance moving across north of Kashmir and adjoining Russian Turkistan caused scattered rain/thundershowers over Peshawar division on the 2nd. Cherat reported  $1/4$  of rain.

A nother western diturbance moving accross East Russian Turkistan between the 6th and 8th with its secondary moving across the northern and central divisions of the Province caused is dated thunderstorms over Bhawalpur division on the 7th.

Night temperatures were slighly to appreciably below normal in the South Western divisions on the 2nd, in some on the of the central and South eastern divisions between the 5th and the 8th. Otherwise, these were slightly to appreciably above normal over the Province.

2. CHITTAGONG DIVISION :	}	Scattered rain fell on one day.
DACCA DIVISION :		
KHULNA DIVISION :	}	Weather remained dry.
RAJSHAHI DIVISION :		
KASHMIR :		Data not available.
LAHORE DIVISION :	}	Weather remained dry.
RAWALPINDI DIVISION :		
SARGODHA DIVISION :		
MULTAN DIVISION :		
BAHAWALPUR DIVISION :	}	Scattered rain fell on one day.
PESHAWAR DIVISION :		
D. I. KHAN DIVISION :	}	Weather remained mainly dry.
QUETTA DIVISION :		
KALAT DIVISION :		
KARACHI DIVISION :	}	Weather remained dry.
HYDERABAD DIVISION :		
KHAIRPUR DIVISION :		
JUNAGADH		Data not available.

3. Based on the data of stations having normals, the week's rainfall was deficient in Dacca and Khulna divisions scanty in Peshawar division where as no rain fell elsewhere in the country.

Rainfall for the period from 1st November, 1966 to-date was in large excess in Khulna division in excess in Chittagong division normal in Dacca and Rajshahi divisions, deficient in Rawalpindi, Peshawar and Quetta divisions and scanty in Lahore, Sargodha, Bahawalpur, D. I. Khan, Kalat and Khairpur divisions. No rain has fallen so far in Karachi and Hyderabad divisions.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st November, 1966, to-date.

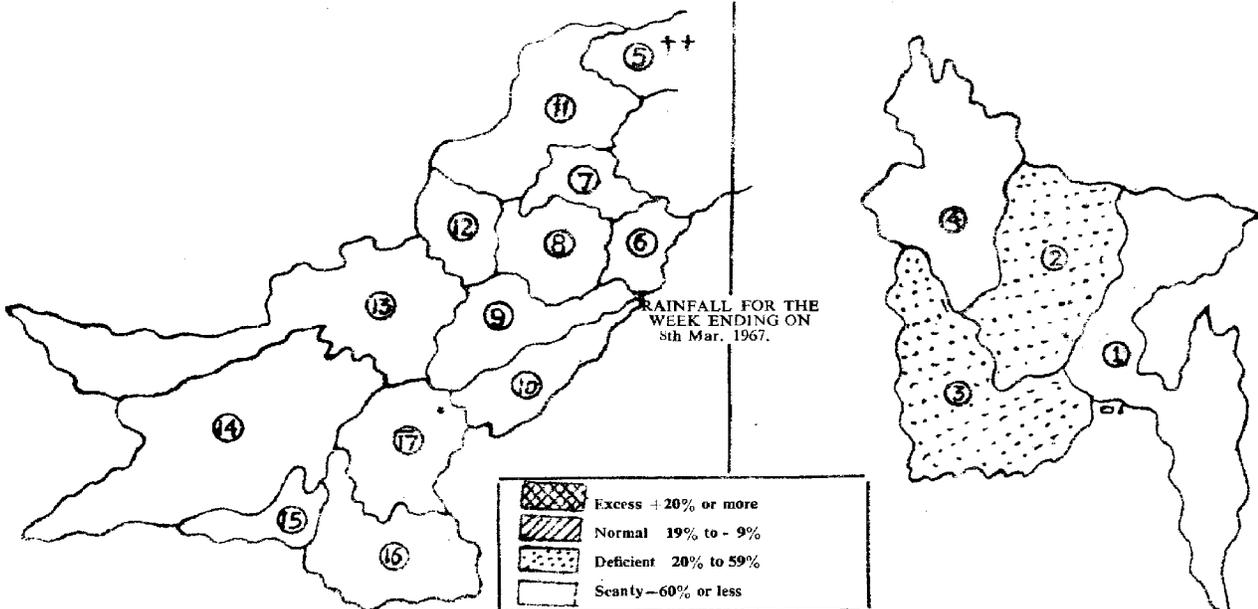
Karachi—11  
The 8th March, 1967.

N. A. QURESHI  
for Director, Meteorological Service.

# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 8th Mar. 1967.			Rainfall for the Period from 1st Nov 1966 to 8th Mar. 1967.			
	† Actual	Normal	*Excess or defect	*Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	0	0.6	- 0.6	6.2	4.2	+ 2.1	+ 50
2. Dacca	0.2	0.3	- 0.1	2.9	2.8	+ 2.1	+ 5
3. Khulna	0.2	0.3	- 0.1	5.1	2.9	+ 2.2	+ 77
4. Rajshahi	0	0.2	- 0.2	2.1	1.8	+ 0.3	+ 15
5. Kashmir ††	—	=	—	—	—	—	—
6. Lahore	0	0.3	- 0.3	0.8	3.6	- 2.7	- 74
7. Rawalpindi	0	0.8	- 0.8	6.9	8.6	- 1.7	- 20
8. Sargodha	0	0.1	- 0.1	0.3	1.7	- 1.4	- 82
9. Multan	0	0.1	- 0.1	0.5	1.2	- 0.7	- 59
10. Bahawalpur	0	0.1	- 0.1	0.2	0.8	- 0.6	- 72
11. Peshawar	0.1	0.7	- 0.6	3.2	6.9	- 2.7	- 45
12. D. I. Khan	0	0.3	- 0.3	0.5	2.8	- 2.3	- 83
13. Quetta	0	0.3	- 0.3	2.2	3.6	- 1.4	- 39
14. Kalat	0	0.1	- 0.1	1.2	3.7	- 2.5	- 67
15. Karachi	0	0.1	- 0.1	0	2.5	- 0.5	- 100
16. Hyderabad	0	0	0	0	1.1	- 1.1	- 100
17. Khairpur	0	0.1	- 0.1	0	0.8	- 0.8	- 96
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01\*  
 † Rainfall of stations having no normals is not included. Data not available.

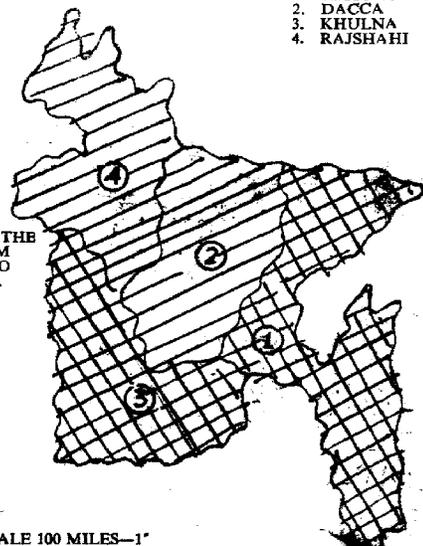
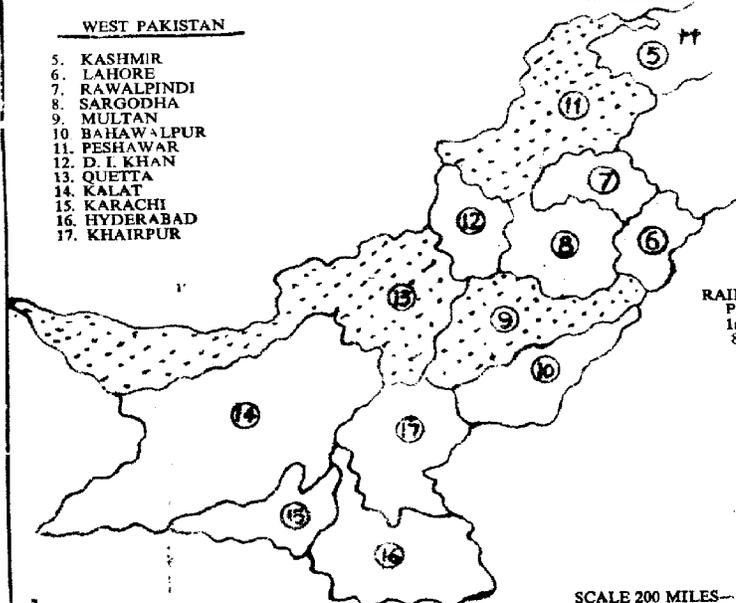


**WEST PAKISTAN**

- 5. KASHMIR
- 6. LAHORE
- 7. RAWALPINDI
- 8. SARGODHA
- 9. MULTAN
- 10. BAHAWALPUR
- 11. PESHAWAR
- 12. D. I. KHAN
- 13. QUETTA
- 14. KALAT
- 15. KARACHI
- 16. HYDERABAD
- 17. KHAIRPUR

**EAST PAKISTAN**

- 1. CHITTAGONG
- 2. DACCA
- 3. KHULNA
- 4. RAJSHAHI



SCALE 200 MILES—1"

SCALE 100 MILES—1"

## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 15th March, 1967.

—oIo:—

### SUMMARY OF WEATHER

**EAST PAKISTAN:** Two active western disturbances affected the weather over the province during the week. The first one moved across the province between the 9th and the 11th and caused local to fairly widespread rain/thundershowers over the province during the first two days. The second one moved during the last three days of the week. It caused fairly widespread rain/thundershowers in Rajshahi division and scattered to local elsewhere on the 13th; scattered in Rajshahi division on the 14th and local over Chittagong division and fairly widespread elsewhere over the province on the 15th.

Chief amounts of rainfall reported were Dacca 1" on the 9th; Comilla 1½" and Maijdee Court, Narayanganj, Dacca and Satkhira 1" each on the 10th; Bogra 4", Dinajpur 3", Sirajganj 2", Rangpur 1½" on the 13th; Narayanganj 4", Comilla 1½", Srimangal, Satkhira, Pajshahi and Bogra 1" each on the 15th.

Night temperatures were slightly below normal in Chittagong division on the 12th and in Khulna and Rajshahi divisions on the 15th, otherwise these were slightly to appreciably above normal in the province.

**WEST PAKISTAN:** Three western disturbances affected the weather over the province during the week. The first two moved in close succession across the central divisions between the 9th and 13th while the third one was a complex system and moved across the northern divisions on the last two days. It induced a well marked secondary over the southwest Kalat division on the last day of the week.

Under their combined influence scattered to local rain/thundershowers occurred over Peshawar and Quetta divisions on the 11th, over these and in D.I. Khan, Sargodha and Rawalpindi divisions on the 12th; fairly widespread over Lahore division and scattered to local over Rawalpindi, Sargodha, Peshawar, D.I. Khan, Quetta and Khairpur divisions on the 13th; local in Bahawalpur, Quetta and Khairpur divisions on the 14th; fairly widespread to widespread over Peshawar, D.I. Khan and Quetta divisions and scattered to local in Multan, Kalat, Karachi and Khairpur divisions on the 15th.

Chief amounts of rainfall reported were Drosh and Parachinar ½" each on the 11th; Landikotal, Parachinar, Fortsandeman, 1" each, Drosh ¾" and Hindubagh ½" on the 12th; Chakdara 2", Rawalpindi, Haripur and Kakul ¾" each, Sialkot, Jhelum, Wana, D.I. Khan and Fortsandeman ½" each on the 13th; Quetta ½" on the 14th; Kalat 2", Hindubagh, Sibi and Nushki 1½" each, Quetta and Chaman 1" each, Khuzadar ¾", and Fortsandeman, Nekkundi, Jaoabad and Dadu ½" each on the 15th.

Night temperatures were slightly to appreciably above normal in Lahore, Rawalpindi and Quetta divisions between the 9th and the 12th and were slightly to appreciably below normal in Lahore, Rawalpindi, Sargodha, Peshawar and Khairpur divisions on the 13th, otherwise these were slightly to appreciably above normal over the province.

CHITTAGONG DIVISION :	Local rain fell on three days and scattered on one day.
DACCA DIVISION :	Widespread and fairly widespread rain fell on one day each and local on two days.
KHULNA DIVISION :	Rainfall was widespread fairly widespread and scattered on one day each.
RAJSHAHI DIVISION :	Rainfall was widespread fairly widespread local and scattered on one day each.
KASHMIR DIVISION :	Data not available.
LAHORE DIVISION :	Fairly widespread rain fell on one day.
RAWALPINDI DIVISION :	Local and scattered rain fell on one day each.
SARGODHA DIVISION :	Local rain fell on two days.
MULTAN DIVISION :	Local rain fell on one day.
BAHAWALPUR DIVISION :	Fairly widespread and local rain fell on day each.
PESHAWAR DIVISION :	Local rain fell on three days and scattered on one day.
D. I. KAHN DIVISION :	Fairly widespread, local and scattered rain fell on one day each.
QUETTA DIVISION :	Rainfall was widespread on one day, local on three days and scattered on one day.
KALAT DIVISION :	Local rain fell on one day.
KARACHI DIVISION :	Scattered rain fell on one day.
HYDERABAD DIVISION :	Weather remained dry.
KHAIRPUR DIVISION :	Local rain fell on two days and scattered on one day.
JUNAGADH	Data not available.

3. Based on the data of stations having normals, the week's rainfall was in large excess in Multan, Bahawalpur, D. I. Khan, Quetta, Kalat and Khairpur divisions and in East Pakistan; in excess in Karachi division; normal in Lahore division, deficient in Rawalpindi division and scanty in Sargodha and Peshawar divisions. No rain has fallen in Hyderabad division.

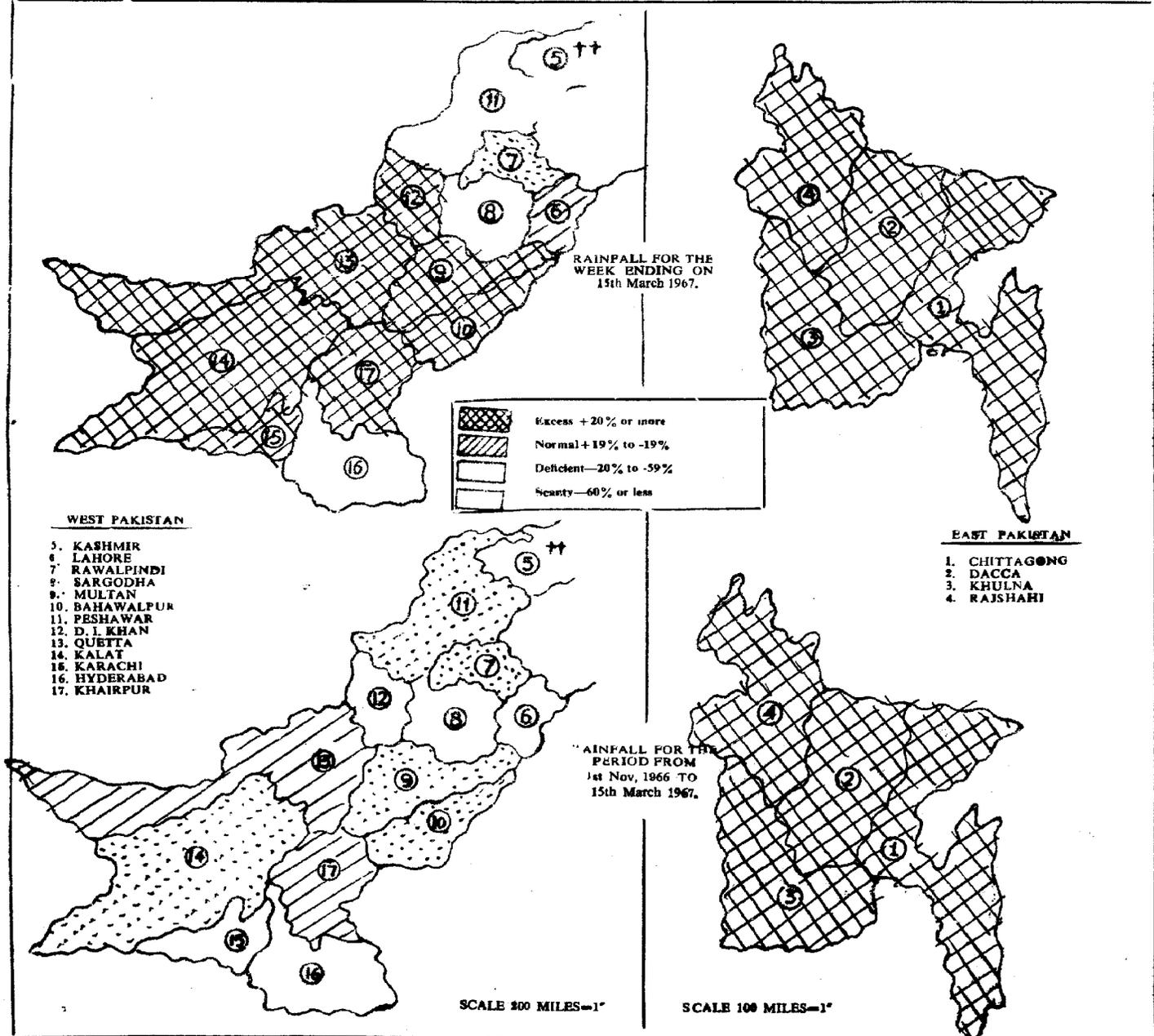
Rain fall for the period from 1st November 1966 to date was in large excess in Chittagong, Khulna and Rajshahi divisions; in excess in Dacca division; normal in Quetta and Khairpur divisions; deficient in Rawalpindi, Multan, Bahawalpur, Peshawar, D. I. Khan and Kalat divisions and scanty in Lahore and Sargodha divisions. No rain has fallen so far in Hyderabad division.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st November 1966 to date.

# WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending the 15th March 1967.			Rainfall for the Period from 1st Nov, 1966 to 15th March 1967.			
	† Actual	Normal	*Excess or defect	† Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	1.4	0.5	+ 0.9	7.6	4.6	+ 3.0	+ 65
2. Dacca	2.0	0.5	+ 1.5	4.9	3.2	+ 1.6	+ 50
3. Khulna	0.8	0.3	+ 0.5	6.9	3.2	+ 2.7	+ 85
4. Rajshahi	3.3	0.2	+ 3.1	5.4	2.0	+ 3.4	+ 173
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0.3	0.3	0	1.2	3.9	- 2.7	- 70
7. Rawalpindi	0.7	0.9	- 0.2	0.2	9.5	- 1.9	- 20
8. Sargodha	0.1	0.2	- 0.1	0.4	1.9	- 1.9	- 80
9. Multan	0.2	0.1	+ 0.1	0.7	1.3	- 0.6	- 47
10. Bahawalpur	0.3	0.1	+ 0.2	0.5	0.9	- 0.4	- 41
11. Peshawar	0.2	1.1	- 0.8	3.5	6.9	- 3.5	- 50
12. D. I. Khan	0.9	0.4	+ 0.5	1.3	3.2	- 1.9	- 58
13. Quetta	1.1	0.4	+ 0.7	3.3	4.0	- 0.7	- 18
14. Kalat	1.1	0.3	+ 0.9	2.4	3.9	- 1.6	- 40
15. Karachi	0.1	0.1	0	0.1	2.6	- 2.5	- 96
16. Hyderabad	0	0.1	- 0.1	0	1.2	- 1.2	- 100
17. Khairpur	0.9	0.1	+ 0.8	0.9	0.9	0	+ 2
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. †† Data not available.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 22nd March, 1967.

—o:O:o—

### SUMMARY OF WEATHER

**EAST PAKISTAN:** The seasonal trough of low pressure extending from Chotanagpur to Assam continued to be active during the week. Under its influence scattered to local rain/thundershowers occurred in Chittagong division on the 16th, in Dacca and Khulna divisions on the 17th, a few falls of rain or thundersstorms in Dacca and Rajshahi divisions on the 18th, scattered rain/thundershowers in Chittagong, Dacca and Rajshahi divisions on the 19th, in Dacca division on the 20th. Fairly widespread rain/thundershowers occurred in Rajshahi and Dacca divisions and scattered to local elsewhere over the province on the 21st and in Chittagong and Rajshahi divisions on last day of the week.

Chief amounts of rainfall recorded were Srimangal 3/4" on the 16th; Barisal 1", Khulna 3/4" and Narayanganj 1/2" on the 17th; Srimangal 2", Sylhet 1 1/2" and Narayanganj 1" on the 19th; Dacca 3", Brahmanbaria 2", Majidee court and Pabna 1 1/2", Sylhet, Sarimangl Narayanganj, Sirajganj, Dinajpur and Rangpur 1" each, Comila 3/4" and Faridpur and Bogra 1/2" each on 21st; Rangpur 1 1/2", Sylhet 1/2" on the 22nd.

Night temperatures were slightly to appreciably below normal in Khulna and Rajshahi divisions on the 16th and in Khulna division on the 17th and in the whole province on last two days of the week. These were nearly normal in Chittagong and Dacca divisions on the 16th and in Khulna division on the 18th, in Dacca and Khulna divisions on the 19th and the 20th, otherwise these were slightly to appreciably above normal.

**WEST PAKISTAN:** Last week's marked secondary western disturbance over Karachi division moved away northeastwards after causing fairly widespread rain/thundershowers over Lahore, Sargodha, Multan and Peshawar divisions and scattered to local elsewhere over the province outside Quetta and Kalat divisions on the 16th and fairly widespread over Lahore division and scattered to local in Rawalpindi and Lahore divisions on the 17th.

Another western disturbance approaching Quetta division on the 19th induced a secondary over Kalat division on the 21st. The system was moving away north eastwards by the end of the week. It caused scattered to local rain/thundershowers in Quetta division on the 19th and the 20th and in Rawalpindi, Peshawar, D.I. Khan, Quetta, Hyderabad and Khairpur divisions on the 21st.

According to newspaper reports the squally weather and heavy rains in beginning of the week seriously affected normal life in Karachi city. It caused dislocation to air, rain and road traffic and disruption of telephone, teleprinter and electric system. A three story building collapsed and thousands of huts in low lying areas were washed away.

Chief amounts of rainfall reported were Cherat 4", Landikotal and Karachi 2" each, Murree Khushab and Chakdara 1 1/2" each, Peshawar and Kakul 1" each, Saikot, Hyderabad and Padidan 3/4" each, Jhelum, Drosh, Parachinar, Wana and Badin 1/2" each on the 16th; Saikot and Murree 1/2" each and Kakul 1/4" on the 17th; Fortsandeman and Hindubagh 1/4" on the 20th; Harnai, 3/4" Murree, Jhelum, Parachinar and Hyderabad 1/4" on the 22nd.

Night temperature were slightly to appreciably above normal in Quetta, Kalat and Karachi divisions between the 19th and 22nd in Peshawar division between the 20th and 21st, in Lahore division between the 21st and 22nd and were nearly normal in Hyderabad and Khairpur divisions between the 19th and 22nd, in Bahawalpur division between the 16 and 18th and between 20th and 21st, otherwise these were slightly to appreciably below normal over the Province.

2. CHITTAGONG DIVISION :	Local and scattered rainfall on two days each.
DACCA DIVISION :	Rainfall was fairly widespread on one day scattered on three days.
KHULNA DIVISION :	Local and scattered rainfall on one day each.
RAJSHAHI DIVISION :	Rainfall was widespread on one day and scattered on two days.
KASHMIR DIVISION :	Data not available.
LAHORE DIVISION :	Widespread and fairly widespread rain fell on one day each.
RAWALPINDI DIVISION :	Local rain fell on two days and scattered on one day each.
SARGODHA DIVISION :	} Fairly widespread rain fell on one day.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	Local rain fell on one day.
PESHAWAR DIVISION :	Rainfall was widespread, local and scattered on one day each.
D.I. KHAN DIVISION :	Local and scattered rain fell on one day each.
QUETTA DIVISION :	Local rain fell on one day and scattered on two days.
KALAT DIVISION :	Weather remained mainly dry.
KARACHI DIVISION :	Scattered rain fell on one day.
HYDERABAD DIVISION :	Local and scattered rain fell on one day each.
KHAIRPUR DIVISION :	Local rain fell on two days.
JUNAGADH	Data not available.

3. Based on the data of stations having normal the week's rainfall was large excess in Chittagong, Dacca, Rajshahi, Lahore, Sargodha, Multan, Bahawalpur, Peshawar, Hyderabad, Khairpur and Karachi divisions; excess in Rawalpindi and Quetta divisions; normal in Khulna division and scanty in D.I. Khan and Kalat divisions.

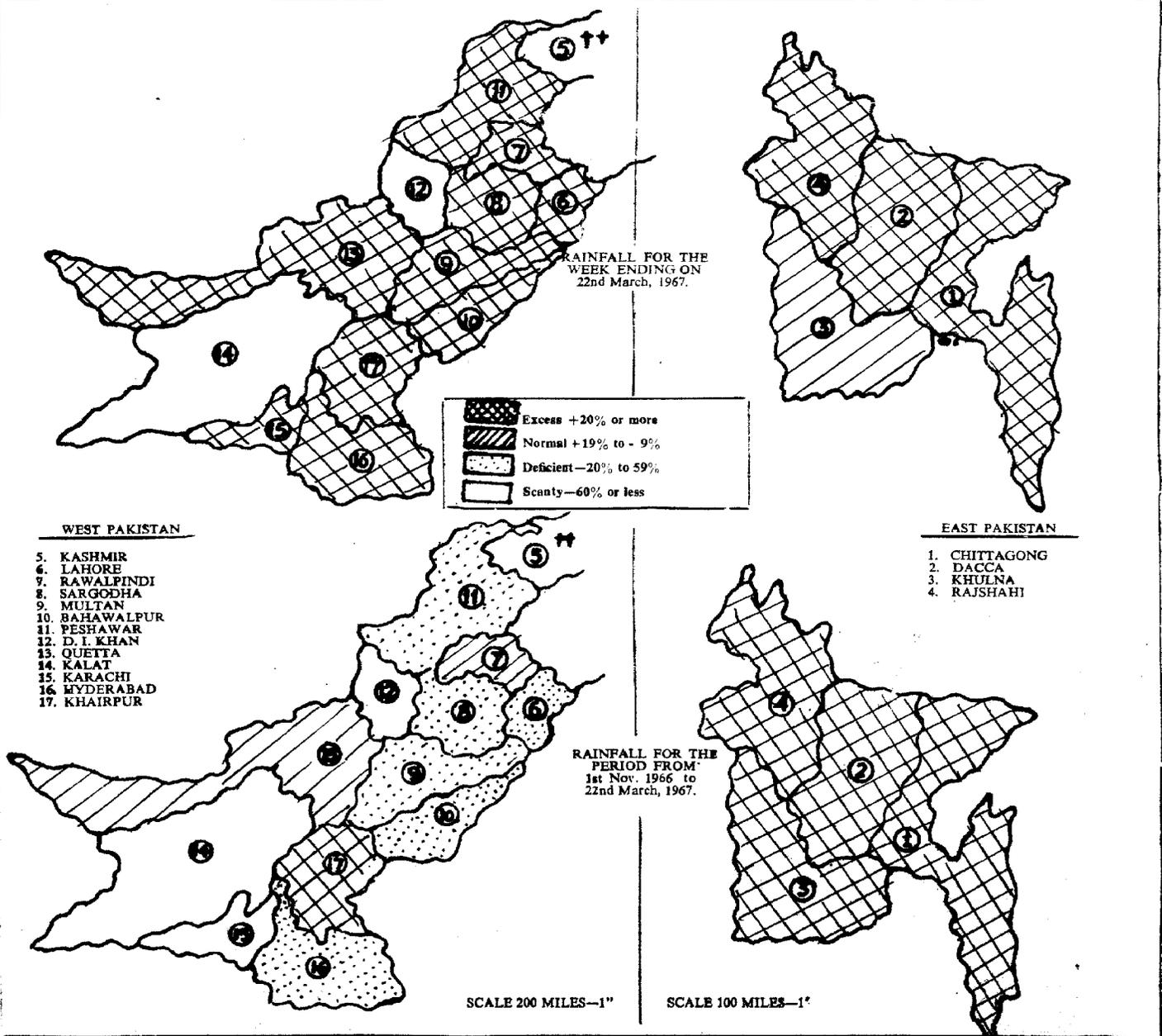
Rainfall for the period from 1st November 1966 to date was in large excess in Chittagong, Khulna and Rajshahi divisions; in excess in Dacca and Khairpur divisions; normal in Rawalpindi and Quetta divisions; deficient in Lahore, Sargodha, Multan, Bahawalpur, Peshawar and Hyderabad divisions; scanty in D. I. Khan and Kalat divisions.

4. The table over leaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st November, 1966 to -date.

# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 22nd March, 1967.			Rainfall for the Period from 1st Nov. 1966 to 22nd March, 1967.			
	+ Actual	Normal	*Excess or defect	*Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	1.6	0.7	+ 0.9	9.2	5.3	+ 3.9	+ 74
2. Dacca	1.0	0.5	+ 0.5	5.9	3.7	+ 2.1	+ 56
3. Khulna	0.6	0.5	+ 0.1	6.5	3.7	+ 2.8	+ 75
4. Rajshahi	1.1	0.2	+ 0.9	6.5	2.2	+ 4.3	+ 192
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0.8	0.2	+ 0.6	1.9	4.1	- 2.2	- 53
7. Rawalpindi	1.2	0.8	+ 0.3	3.7	10.3	- 1.6	- 16
8. Sargodha	0.9	0.2	+ 0.7	1.3	2.1	- 0.8	- 38
9. Multan	0.2	0.1	+ 0.1	0.9	1.4	- 0.5	- 37
10. Bahawalpur	0.2	0.1	+ 0.1	0.7	1.0	- 0.3	- 31
11. Peshawar	1.7	0.8	+ 0.9	5.2	7.7	- 2.6	- 33
12. D. I. Khan	0.1	0.4	- 0.4	1.4	3.7	- 2.3	- 62
13. Quetta	0.4	0.3	+ 0.1	3.7	4.3	- 0.6	- 14
14. Kalat	0	0.3	- 0.3	2.4	4.2	- 3.8	- 91
15. Karachi	—	—	—	—	—	—	—
16. Hyderabad	0.8	0	+ 0.7	0.8	1.2	- 0.4	- 37
17. Khairpur	0.5	0.1	+ 0.4	1.4	0.9	+ 0.4	+ 46
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. Data not available.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 29th March, 1967.

—o:O:o—

### SUMMARY OF WEATHER

**EAST PAKISTAN:** Two western disturbances moved across the Province between the 3rd and 25th and between the 25th and the 29th. In their association scattered to local rain/thundershowers occurred over Rajshahi division on the 23rd and 24th, over Dacca and Khulna divisions on the 25th, fairly widespread over Khulna divisions and scattered over Dacca and Rajshahi divisions on the 26th, scattered to local over Chittagong, Dacca and Khulna divisions on the 27th, in Chittagong and Dacca divisions on the 28th and in Chittagong on the 29th.

Chief amounts of rainfall recorded were Dinajpur  $1\frac{1}{2}$ " and Rangpur  $\frac{1}{2}$ " on the 23rd. Dinajpur  $1\frac{1}{2}$ ", Bogra 1" on the 24th, Barisal 1" and Satkhira  $\frac{1}{2}$ " on the 26th, Syhet  $\frac{1}{2}$ " on the 27th. Srimangal  $\frac{3}{4}$ " on the 28th.

Night temperatures were generally slightly to appreciably below normal over the province during the week.

**WEST PAKISTAN:** Last week's western disturbance over the northern and central divisions of West Pakistan moved away northeasterly on the 1st day of the week. It induced a secondary circulation over Kutch and southwest Rajasthan which persisted till the end of the week without appreciable movement. Simultaneously another western disturbance while moving away northeasterly across the central and northern divisions between the 23rd and the 27th induced a secondary over Kalat division which persisted there till the end of the week.

Under their influence rain/thundershowers were fairly widespread over Lahore division and scattered over Rawalpindi, Quetta, Karachi and Hyderabad divisions on the 23rd, fairly widespread over Lahore, Rawalpindi, Sargodha, Multan, Bahawalpur and Khairpur divisions and scattered to local elsewhere over the province on the 25th, widespread in Lahore, Rawalpindi, Peshawar divisions and local over Sargodha and Multan divisions on the 26th, scattered to local in Rawalpindi, Peshawar, D. I. Khan divisions on the 27th and scattered in Kalat division on the 28th and in Kalat and Karachi divisions on the 29th.

Chief amounts of rainfall reported were Lahore 1" on the 23rd; Harnai 2", Landikotal and Wana  $1\frac{1}{2}$ " each, D. I. Khan, Sibi and Parachinar 1" each on the 24th; Peshawar 5", Khushab 3", Rawalpindi, Murree and Karachi Airport 2" each, Landikotal, Fortsandeman, Hindubagh and Montgomery  $1\frac{1}{2}$ " each, Layallpur, Kakul and Loralai 1" each on the 25th; Murree, Rawalpindi, Lyallpur, Drosch and Chakdara 2" each, Landikotal, Lahore, Islamabad, Montgomery, Cherat and Kakul  $1\frac{1}{2}$ " each, Jhelum, Peshawar and Parachinar 1" each on the 26th and Fortsandeman  $1\frac{1}{2}$ " on the 29th.

According to press reports heavy rain accompanied by strong winds caused dislocation to normal life in Karachi, Hyderabad, Quetta, Multan, Peshawar and other areas in the province. Air rail and other road transports were paralysed. Flooding caused heavy damage to life and property in various parts of the province.

Night temperatures were slightly to appreciably above normal over Quetta and Kalat divisions on the 23rd and the 24th and to the same extent below normal otherwise in the northern and central divisions during the week.

<b>2. CHITTAGONG DIVISION :</b>	Local rain fell on one day and scattered on two days.
<b>DACCA DIVISION :</b>	Scattered rain fell on four days.
<b>KHULNA DIVISION :</b>	Fairly widespread rain fell on one day and scattered on two days.
<b>RAJSHAH DIVISION :</b>	Local rain fell on two days and scattered on one day.
<b>KASHMIR DIVISION :</b>	Data not available.
<b>LAHORE DIVISION :</b>	Widespread rain fell on two days; fairly widespread and local on one day each.
<b>RAWALPINDI DIVISION :</b>	Widespread and fairly widespread rain fell on one day each and local on three days.
<b>SARGODHA DIVISION :</b>	Widespread rain fell on one day and local on two days.
<b>MULTAN DIVISION :</b>	Fairly widespread rain fell on one day and local on two days.
<b>BAHAWALPUR DIVISION :</b>	Fairly widespread and local rainfall on one day each.
<b>PESHAWAR DIVISION :</b>	Widespread rain fell on one day and local on three days.
<b>D. I. KAHN DIVISION :</b>	Fairly widespread, local and scattered rain fell on one day each.
<b>QUETTA DIVISION :</b>	Local and scattered rain fell on two days each.
<b>KALAT DIVISION :</b>	Scattered rain fell on four days.
<b>KARACHI DIVISION :</b>	Scattered rain fell on two days.
<b>HYDERABAD DIVISION :</b>	Local rain fell on one day and scattered on two days.
<b>KHAIRPUR DIVISION :</b>	Fairly widespread and local rain fell on one day each.
<b>JUNAGADH</b>	Data not available.

3. Based on the data of stations having normals, the week's rainfall was in large excess in West Pakistan outside D. I. Khan division and in Rajshahi division; in excess in D. I. Khan division; normal in Khulna division and were deficient elsewhere in the country.

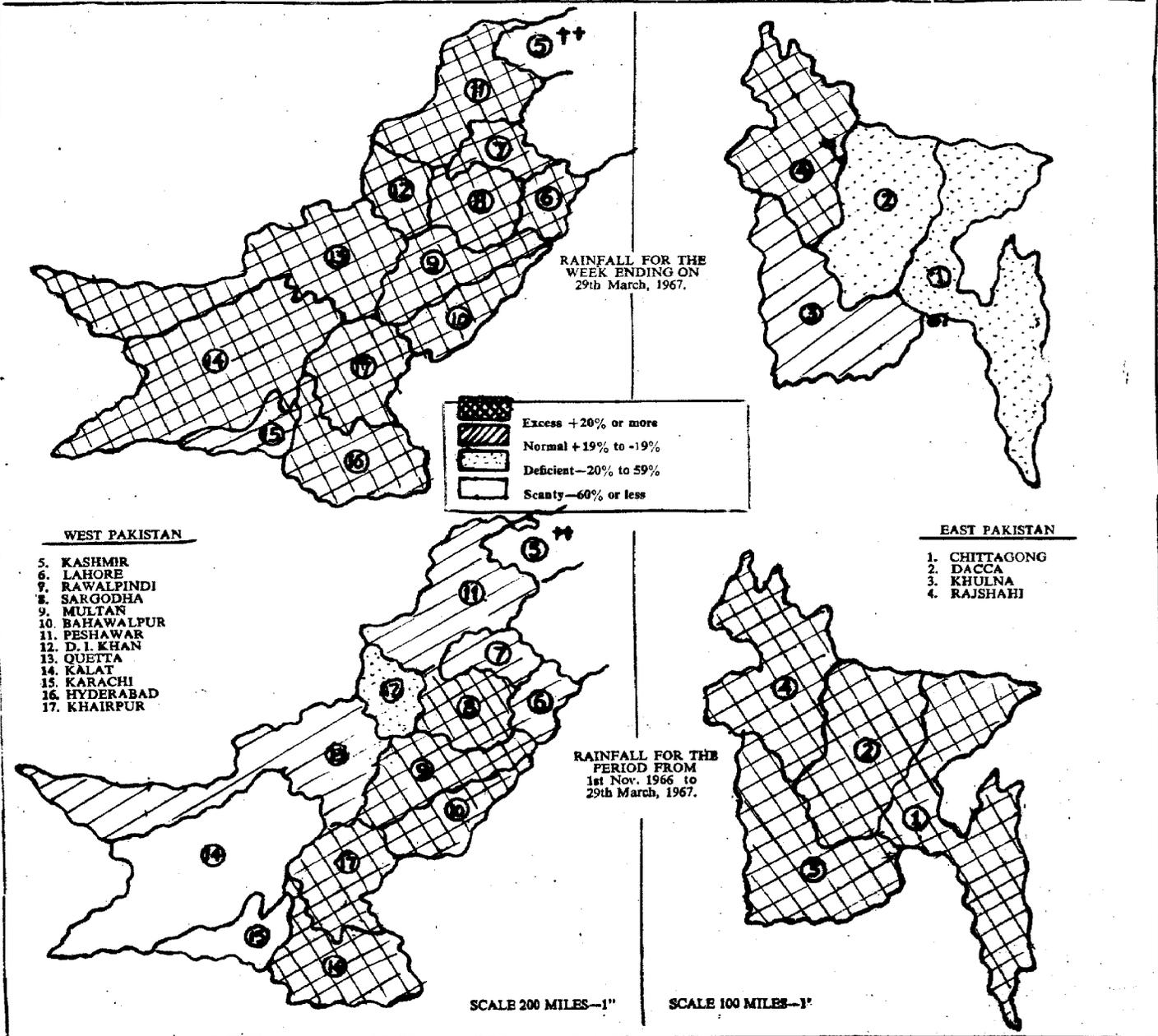
Rainfall for the period from 1st November, 1966 to-date was in large excess in Sargodha, Multan, Rajshahi and Khulna, divisions; in excess in Bahawalpur, Hyderabad, Khairpur divisions and elsewhere in East Pakistan; normal in Lahore, Rawalpindi, Peshawar and Quetta divisions and deficient in D. I. Khan division and scanty in Kalat division.

4. The table over leaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st November, 1966 to -date.

# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 29th March, 1967.			Rainfall for the Period from 1st Nov. 1966 to 29th March, 1967.			
	† Actual	Normal	*Excess or defect	*Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	0.3	0.6	- 0.3	9.5	5.9	+ 3.9	+ 6.0
2. Dacca	0.3	0.5	- 0.2	6.1	4.3	+ 1.9	+ 4.4
3. Khulna	0.6	0.6	0	7.1	4.3	+ 2.8	+ 66
4. Rajshahi	1.2	0.7	+ 0.5	7.6	2.9	+ 4.8	+ 167
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	1.9	0.2	+ 1.7	3.8	4.3	+ 0.5	- 11
7. Rawalpindi	4.6	0.8	+ 3.8	13.3	11.2	+ 2.2	+ 19
8. Sargodha	2.9	0.1	+ 2.8	14.3	2.2	+ 2.0	+ 90
9. Multan	2.0	0.1	+ 2.0	2.9	1.5	+ 1.4	+ 94
10. Bahawalpur	0.8	0.1	+ 0.8	1.5	1.1	+ 0.5	+ 46
11. Peshawar	4.3	0.6	+ 3.7	9.5	8.3	+ 1.2	- 14
12. D. I. Khan	0.8	0.6	+ 0.3	2.2	4.2	- 2.0	- 50
13. Quetta	1.6	0.2	+ 1.4	5.3	4.5	+ 0.8	+ 18
14. Kalat	0.2	0.1	+ 0.1	0.6	4.3	- 3.7	- 85
15. Karachi	—	—	—	—	—	—	—
16. Hyderabad	0.7	0	+ 0.7	1.5	1.2	+ 0.3	+ 21
17. Khairpur	0.1	0	+ 0.1	1.4	0.9	+ 0.5	+ 55
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01" Data not available.  
 † Rainfall of stations having no normals is not included.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 5th April, 1967.

—o:O:o—

## SUMMARY OF WEATHER

**EAST PAKISTAN:** A westerly low pressure wave moved across the province during the first two days of the week, and caused scattered rain/thundershowers in Dacca and Chittagong divisions on the 31st. Weather was otherwise dry over the province during the week.

Chief amounts of rainfall reported were Naravanganj  $3\frac{1}{4}$ " and Rangamati  $\frac{1}{2}$ " on the 31st.

Night temperatures were slightly to appreciably above normal in Chittagong division on the 31st, 2nd and 4th, in Rajshahi division on the 3rd and 5th and were generally slightly below normal in Dacca and Rajshahi divisions on the 30th and 2nd and in Khulna division on the 3rd and 4th. These were otherwise nearly normal over the province.

**WEST PAKISTAN:** Two western disturbances moved across the northern and central divisions of the Province between the 31st and the 3rd and between the 3rd and the 5th respectively while a low pressure area which developed over Central Oman on the 30th remained stationary and filled up there by the 1st. Under their influence rain thundershowers were local on Kalat division on the 30th, fairly widespread over Bahawalpur division and scattered to local in Peshawar, D.I. Khan, Quetta, Kalat and Karachi divisions on the 31st, widespread to fairly widespread in Lahore, Rawalpindi, Sargodha and Peshawar divisions on the 1st, local in Rawalpindi and Peshawar divisions on the 2nd, scattered in Peshawar, D.I. Khan and Quetta divisions on the 3rd and scattered to local in D.I. Khan and Quetta divisions on the 4th and in Rawalpindi, Sargodha, Peshawar and D.I. Khan divisions on the 5th.

Chief amounts of rainfall reported were Nushki  $3\frac{1}{4}$ ", Fortsandeman, Parachinar, Chaman and Daibandin  $\frac{1}{2}$ " each on the 31st; Murree  $1\frac{1}{2}$ " Cherat and Landikotal  $1$ " each, Chakdara, Kakul and Parachinar  $3\frac{1}{4}$ " each Sialkot, Islamabad, Rawalpindi, Drosh, Peshawar, Bannu, Harnai and Chaman  $\frac{1}{2}$ " each on the 1st; Jhelum  $1$ " on the 2nd; Fortsandeman and Miranshah  $\frac{1}{2}$ " on the 4th and Drosh  $\frac{1}{2}$ " on the 5th.

Night temperatures were slightly to appreciably above normal in Bahawalpur, Quetta, Kalat and Khairpur divisions on the 30th and in Sargodha, Bahawalpur, Peshawar and D.I. Khan divisions on the 31st. These were markedly below normal in Hyderabad division on the 31st, in Peshawar and Quetta divisions on the 1st and the 2nd; in Quetta and Kalat divisions on the 3rd and the 4th and in these divisions and in Rawalpindi and Peshawar divisions on the 5th and were slightly to appreciably so elsewhere over the province during the week.

2. CHITTAGONG DIVISION :	}	Scattered rain fell on one day.
DACCA DIVISION :		
KHULNA DIVISION :		
RAJSHAHI DIVISION :		
KASHMIR :	}	Data not available.
LAHORE DIVISION :		
RAWALPINDI DIVISION :		
SARGODHA DIVISION :		
MULTAN DIVISION :		
BAHAWALPUR DIVISION :		
PESHAWAR DIVISION :		
D. I. KHAN DIVISION :		
QUETTA DIVISION :		
KALAT DIVISION :		
KARACHI DIVISION :		
HYDERABAD DIVISION :		
KHAIRPUR DIVISION :		
JUNAGADH		

3. Based on data of stations having normal, the week's rainfall was in large excess in Bahawalpur and Quetta divisions; in excess in Lahore, Sargodha, Peshawar and Khairpur divisions; normal in Kalat, Multan and Hyderabad divisions; deficient in Rawalpindi and D.I.-Khan divisions scanty in East Pakistan.

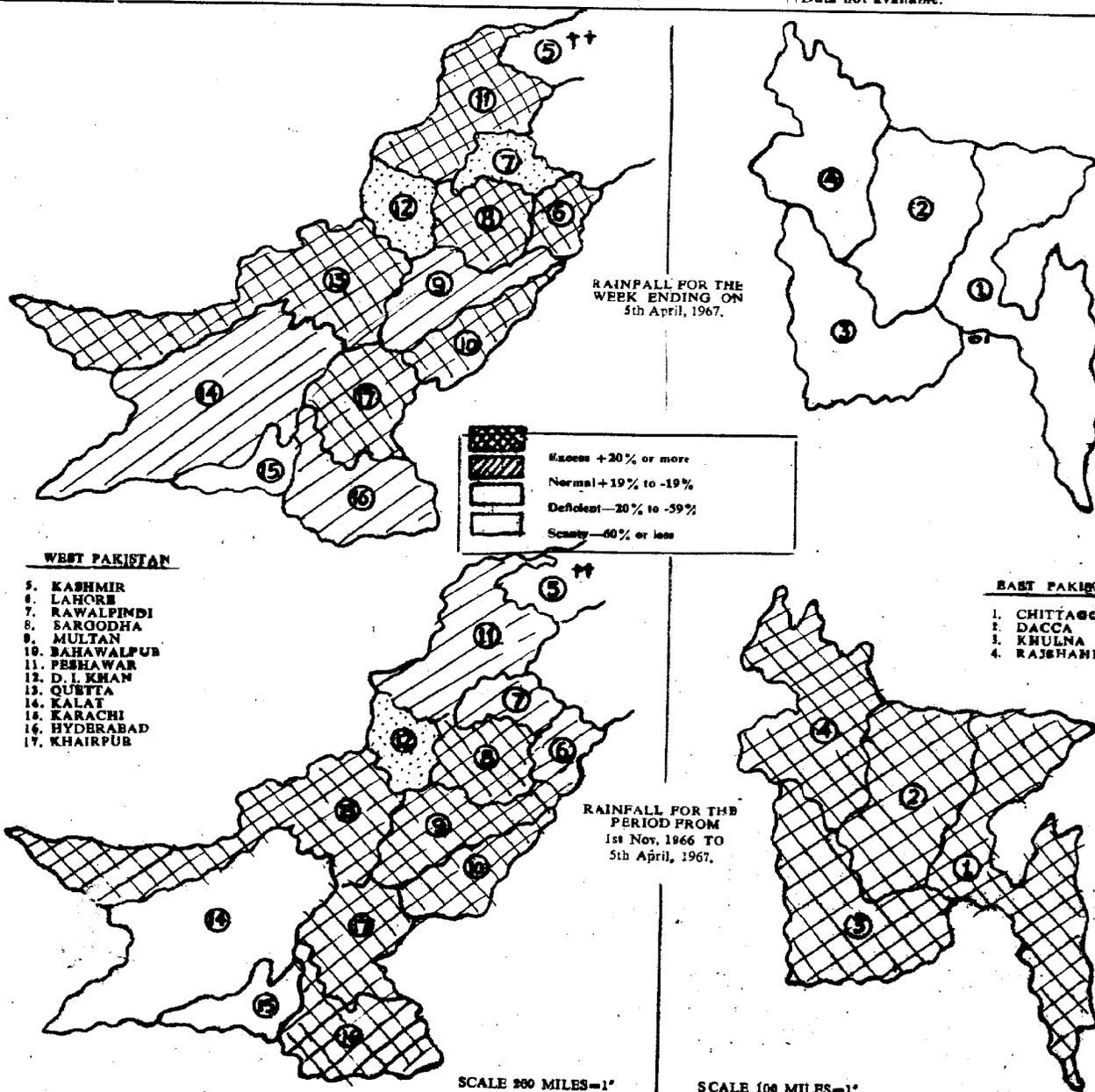
Rain-fall for the period from 1st November, 1966 to-date was in large excess in Rajshahi, Sargodha and Multan divisions; in excess Hyderabad, Khairpur, Quetta, Bahawalpur divisions and elsewhere in East Pakistan; normal in Lahore, Rawalpindi, Peshawar divisions; deficient in D. I. Khan division and scanty in Kalat divisions.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st November 1966 to-date.

# WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending the 5th April, 1967.			Rainfall for the Period from 1st Nov. 1966. to 5th April, 1967.			
	† Actual	Normal	* Excess or defect	† Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	0	0.9	- 0.9	9.5	6.2	+ 3.3	+ 53
2. Dacca	0.2	0.7	- 0.5	6.4	4.5	- 1.9	+ 42
3. Khulna	0	0.5	- 0.5	7.1	4.5	+ 2.6	+ 58
4. Rajshahi	0	0.5	- 0.5	7.6	3.0	+ 4.6	+ 154
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0.3	0.2	+ 0.1	3.8	4.4	- 0.6	- 13
7. Rawalpindi	0.5	1.0	- 0.4	13.3	11.6	+ 1.8	+ 15
8. Sargodha	0.2	0.2	+ 0.1	4.3	2.3	- 2.0	+ 86
9. Multan	0.1	0.1	0	2.9	1.5	+ 1.4	+ 91
10. Bahawalpur	0.1	0	+ 0.1	1.6	1.1	+ 0.6	+ 55
11. Peshawar	0.9	0.6	+ 0.3	9.5	8.6	- 0.9	+ 11
12. D. I. Khan	0.4	0.6	- 0.2	2.2	4.5	- 2.3	- 50
13. Quetta	0.9	0.3	+ 0.6	5.6	4.6	+ 1.0	+ 22
14. Kalat	0.2	0.2	0	0.9	4.4	- 3.5	- 80
15. Karachi	—	—	—	—	—	—	—
16. Hyderabad	0	0	0	1.5	1.2	+ 0.3	+ 21
17. Khairpur	0	0	0	1.5	0.9	+ 0.5	+ 56
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. †† Data not available.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 12th April, 1967.

-----o:O:-----

## SUMMARY OF WEATHER

East Pakistan:- A westerly low pressure wave moved rapidly across the extreme northern parts of the Province between the 8th and 9th and caused scattered rain or thundershowers in Chittagong and Rajshahi divisions and a few falls of light rain in Dacca division on the 9th. Weather otherwise remained dry during the week.

Night temperatures were slightly to appreciably below normal in the whole Province on the 11th, in Dacca and Rajshahi divisions on the 6th, 7th and the 10th and in Rajshahi and Khulna divisions on the 9th and 12th.

West Pakistan:- Two feeble western disturbance affected the weather over the Province. The first one moved slowly across the northern and central divisions of the province between the 6th and the 9th. It caused scattered rain with snowfalls over the hills in Peshawar division on the 6th and a few falls of light rain or thunderstorms in Quetta division on the 7th, in Rawalpindi and Peshawar on the 8th and again in Rawalpindi division on the 9th. The second western disturbance appeared over Afghanistan on the 10th and moved away across the northern divisions of the Province by the 12th. Under its influence light rain or drizzle fall in Sargodha, Multan, Bahawalpur, Peshawar and Quetta divisions on the 11th and in the last two named divisions on the 12th. Peshawar recorded 1/4" of rainfall on the 6th.

Night temperatures were appreciably to markedly below normal in the northern and central divisions on the 6th, and slightly to appreciably so practically in the whole province on the 7th and the 11th and in the northern divisions and in Quetta, Kalat and Hyderabad divisions on the 8th and 9th. These were to the same extent above normal in D.I. Khan and Quetta divisions on the 10th and in these and in Peshawar and Khairpur divisions on the 12th.

2. CHITTAGONG DIVISION :	Scattered rain fell on one day.
DACCA DIVISION :	} Weather remained dry.
KHULNA DIVISION :	
RAJSHAHI DIVISION :	
KASHMIR :	Data not available.
LAHORE DIVISION :	Weather remained dry.
RAWALPINDI DIVISION :	Weather remained mainly dry.
SARGODHA DIVISION :	} Weather remained dry.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Scattered rain fell on one day.
D. I. KHAN DIVISION :	Weather remained mainly dry.
QUETTA DIVISION :	Weather remained mainly dry.
KALAT DIVISION :	} Weather remained dry.
KARACHI DIVISION :	
HYDERABAD DIVISION :	
KHAIRPUR DIVISION :	
JUNAGADH	Data not available.

3. Based on the data of stations having normals, the week's rainfall was scanty in Chittagong, Rajshahi, Rawalpindi and Peshawar divisions where as no rainfall elsewhere in the country.

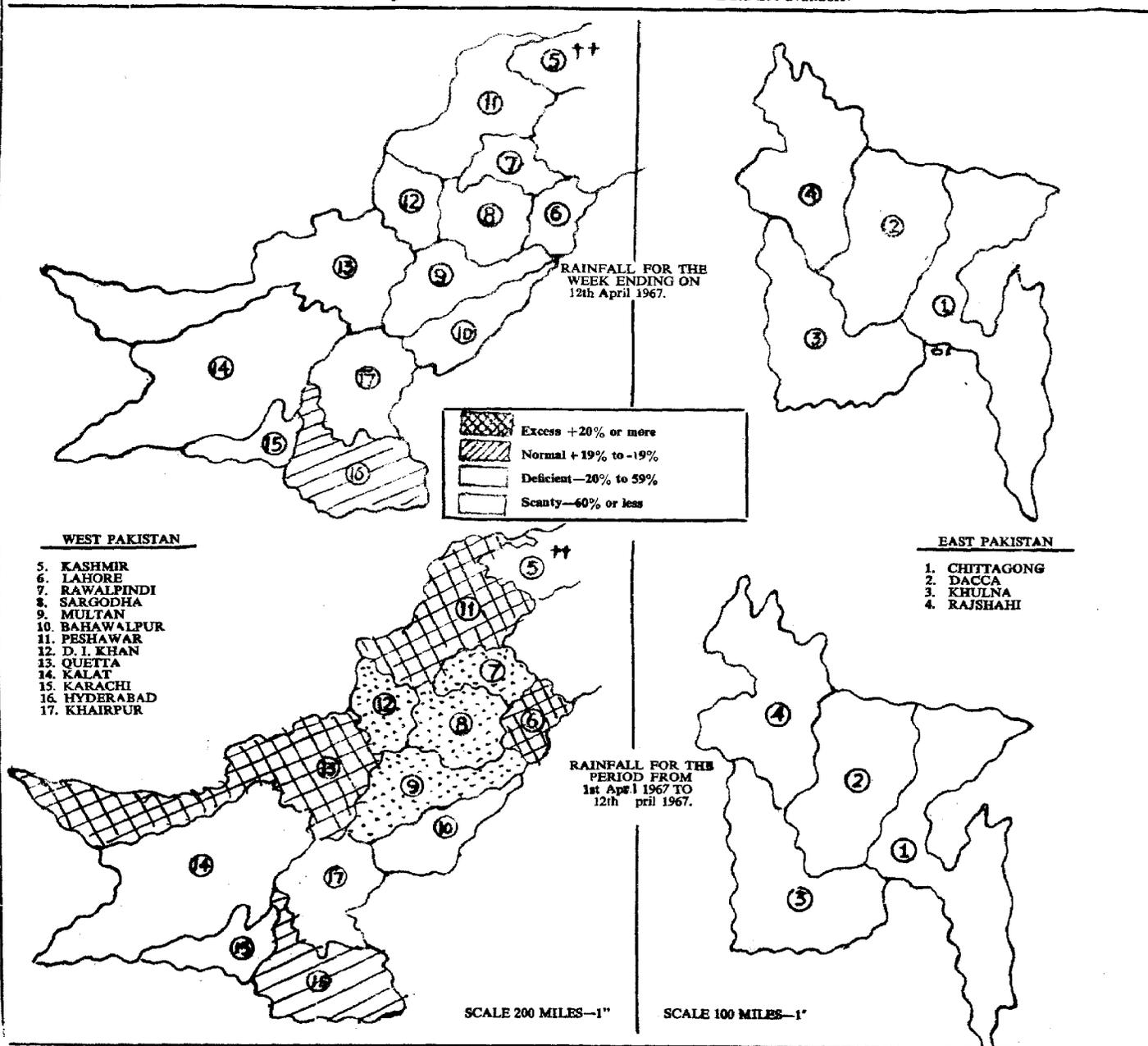
Rainfall for the period from 1st April, 1967 to-date was in large excess in Lahore division; in excess in Peshawar division; deficient in Rawalpindi, Sargodha, Multan and D. I. Khan divisions and scanty in Chittagong and Rajshahi divisions. No rain has so far fallen elsewhere in the country.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistans, both for the week and for the period from 1st April 1967 to date.

# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 12th April 1967.			Rainfall for the Period from 1st April 1967 to 12th April 1967.			
	† Actual	Normal	*Excess or defect	*Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	0	1.2	- 1.2	0	1.8	- 1.8	- 90
2. Dacca	0	1.0	- 1.0	0	1.4	- 1.4	- 100
3. Khulna	0	0.5	- 0.5	0	0.8	- 0.8	- 100
4. Rajshahi	0	0.3	- 0.3	0	0.7	- 0.7	- 95
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0	0.2	- 0.2	0.3	0.2	+ 0.2	+ 106
7. Rawalpindi	0	0.9	- 0.8	0.6	1.5	- 0.9	- 52
8. Sargodha	0	0.2	- 0.2	0.2	0.3	= 0.1	- 28
9. Multan	0	0.1	- 0.1	0.1	0.1	- 0.1	- 50
10. Bahawalpur	0	0.1	- 0.1	0	0.1	- 0.1	- 100
11. Peshawar	0	0.5	- 0.3	1.1	0.8	+ 0.3	+ 30
12. D. I. Khan	0.2	0.3	- 0.3	0.4	0.6	- 0.2	- 28
13. Quetta	0	0.2	- 0.2	0.6	0.4	+ 0.2	+ 54
14. Kalat	0	0.2	- 0.2	1.	0.3	- 0.3	- 100
15. Karachi	0	0.2	- 0.2	0	0.3	- 0.3	- 100
16. Hyderabad	0	0	0	0	0	0	Normal
17. Khairpur	0	0.1	- 0.1	0	0.1	- 0.1	- 100
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01†  
 † Rainfall of stations having no normals is not included. Data not available.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 19th April, 1967.

—oIo:—

### SUMMARY OF WEATHER

**EAST PAKISTAN:** A westerly low pressure wave moving across the northern parts of East Pakistan accentuated the seasonal trough of low pressure over West Bengal and neighbourhood. Under its influence a few dust or thunderstorms occurred in Chittagong and Dacca divisions on the 13th and scattered to local rain or thundershowers in Chittagong division between the 14th and the 17th, in Dacca division on the 15th and the 17th and in Rajshahi division on the 15th. Thereafter, another westerly low pressure wave approached Bihar and neighbourhood on the 18th and further accentuated the seasonal trough. Well marked incursion of moist air took place from the Bay of Bengal and caused fairly widespread to widespread rain or thundershowers with locally heavy falls in the province on the 19th and local to fairly widespread on a day earlier. According to newspaper reports some of the thundershowers were associated with severe squalls, one of which ravaged part of Faridpur and Bakerganj districts on the evening of the 17th and took a toll of 68 lives. A large number of people were injured and 1500 dwellings raged to the ground. Another one lashed Daulatpur in Khulna district on the 18th evening causing considerable damage to property.

Chief amounts of rainfall were Sylhet 1" on the 14th; Brahmanbaria 2" on the 16th; Barisal 4", Sylhet 3" and Comilla 2" on the 18th; and Chittagong, Brahmanbaria, Sylhet, Srimangal, Jessore, Sirajganj, Bogra and Rangpur 2" each on the 19th.

Day temperatures were slightly to appreciably above normal in the province between the 12th and the 17th and were to the same extent below normal on the 19th.

**WEST PAKISTAN:** A feeble secondary western disturbance which lay over Quetta and Kalat divisions on the first day of the week, moved away across the northern divisions of the province by the 15th, after causing scattered rain in D. I. Khan division and a few falls of drizzle or thunderstorms in Sargodha, Peshawar and Quetta divisions on the 13th, in Multan and D. I. Khan divisions on the 14th and in Bahawalpur division on the 15th. Another western disturbance appeared over southeast Iran on the 16th and moved away across northern divisions of the province by the 18th. Under its influence fairly widespread rain or thundershowers occurred in Sargodha division on the 18th and scattered in Peshawar division on the 17th and the 18th. A few falls of light rain or thunderstorms were also reported from the other northern and central divisions between the 17th and the 18th and from Multan and Quetta divisions on the 16th. According to news paper reports a 48 m.p.h duststorm hit Lahore on the morning of the 18th. Parachinar recorded 1/4" of rain on the 17th and Drosh 3/4" on the 18th.

Day temperatures were slightly to appreciably above normal practically in the whole province between the 13th and the 17th; only in the northern and central divisions on the 18th and in Peshawar, D. I. Khan, Khairpur and Hyderabad divisions on the 19th.

2. CHITTAGONG DIVISION :	Fairly widespread, local and scattered rain fell on two days each
DACCA DIVISION :	Rainfall was widespread and scattered on one day each and local on two days.
KHULNA DIVISION :	Fairly widespread and local rain fell on one day each.
RAJSHAHI DIVISION :	Widespread rain fell on one day and scattered on two days.
KASHMIR DIVISION :	Data not available.
LAHORE DIVISION :	Weather remained dry.
RAWALPINDI DIVISION :	Weather remained mainly dry.
SARGODHA DIVISION :	Fairly widespread rain fell on one day.
MULTAN DIVISION :	} Weather remained mainly dry.
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Scattered rain fell on two days.
D. I. KHAN DIVISION :	Scattered rain fell on one day.
QUETTA DIVISION :	Weather remained mainly dry.
KALAT DIVISION :	} Weather remained dry.
KARACHI DIVISION :	
HYDERABAD DIVISION :	
KHAIRPUR DIVISION :	
JUNAGADH	Data not available.

3. Based on the data of stations having normals, the week's rainfall was in large excess in East Pakistan, normal in Sargodha division; scanty in Rawalpindi, Peshawar, D. I. Khan and Quetta, divisions whereas no rain fell elsewhere in West Pakistan.

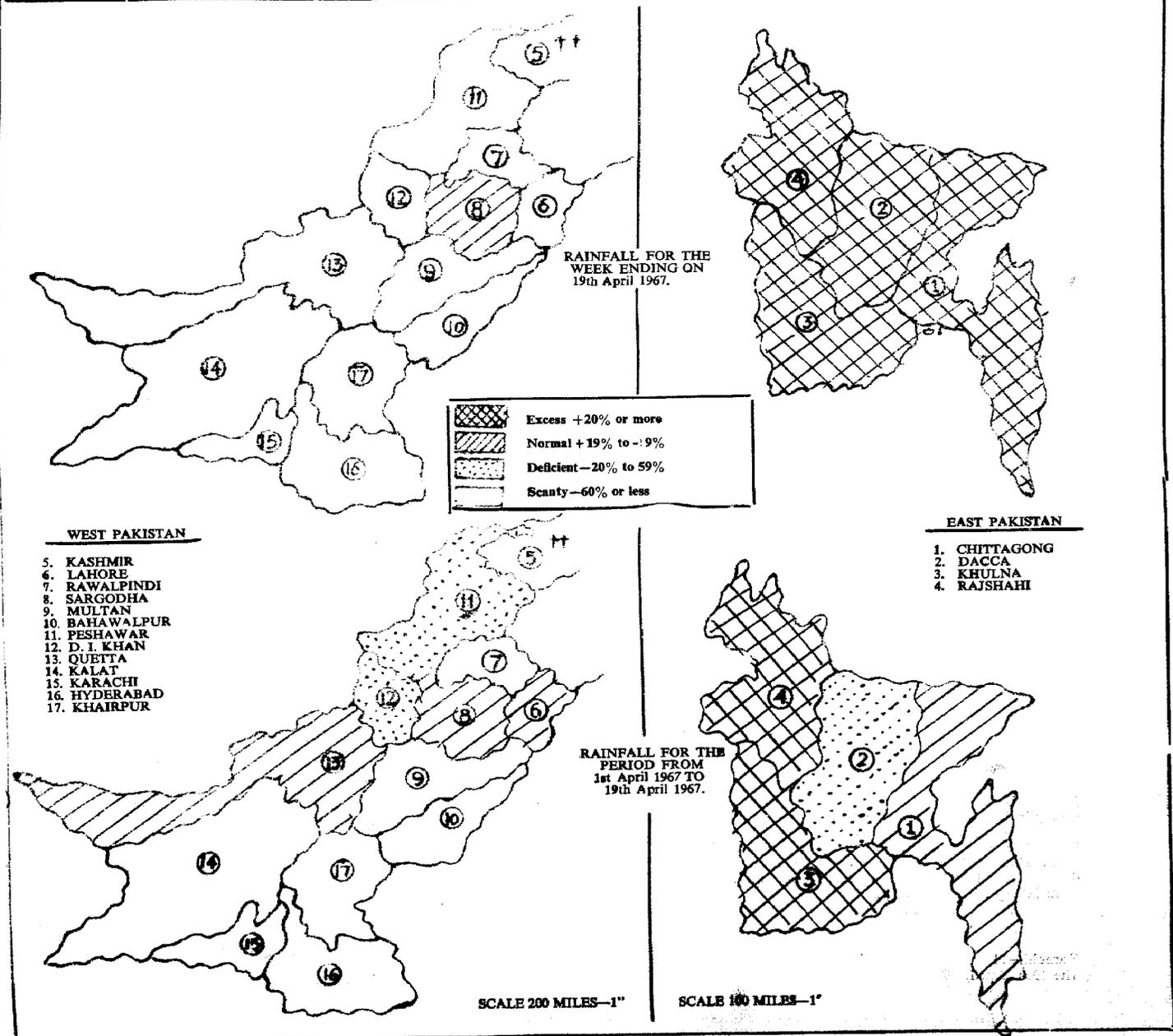
Rainfall for the period from 1st April 1967 to date was in excess in Khulna and Rajshahi divisions; normal in Chittagong, Lahore, Sargodha and Quetta divisions; deficient in Dacca, Peshawar and D. I. Khan divisions and scanty in Rawalpindi and Multan divisions. No rain has fallen so far elsewhere in West Pakistan.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st April 1967 to date.

# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 19th April 1967.			Rainfall for the Period from 1st April 1967 to 19th April 1967.			
	† Actual	Normal	*Excess or defect	*Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	3.1	1.4	+ 1.7	3.1	3.2	- 0.1	- 4
2. Dacca	2.1	1.2	+ 0.9	2.1	2.6	- 0.5	- 21
3. Khulna	2.5	0.8	+ 1.7	2.5	1.6	+ 0.9	+ 55
4. Rajshahi	2.0	0.9	+ 1.1	2.0	1.5	+ 0.5	+ 33
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0	0.2	- 0.2	0.3	0.4	0	- 3
7. Rawalpindi	0.1	0.8	- 0.7	0.7	2.3	- 1.6	- 71
8. Sargodha	0.2	0.2	0	0.4	0.5	= 0.1	- 16
9. Multan	0	0.1	- 0.1	0.1	0.2	- 0.1	- 70
10. Bahawalpur	0	0.1	- 0.1	0	0.2	- 0.2	- 100
11. Peshawar	0	0.6	- 0.6	1.1	1.5	- 0.3	- 24
12. D. I. Khan	0	0.3	- 0.3	0.5	0.9	- 0.4	- 48
13. Quetta	0	0.2	- 0.2	0.6	0.5	+ 0.1	+ 9
14. Kalat	0	0.1	- 0.1	0	0.4	- 0.4	- 100
15. Karachi	0	0	0	0	0.4	- 0.4	- 100
16. Hyderabad	0	0	0	0	0	0	Normal
17. Khairpur	0	0.1	- 0.1	0	0.1	- 0.1	- 100
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. Data not available.



# WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 26th April, 1967.

—o:0:0—

## SUMMARY OF WEATHER

**EAST PAKISTAN:** Last week's westerly low pressure wave over Bihar and West Bengal moved away eastwards across the Province by the 21st. Under its influence fairly widespread rain or thundershowers with locally heavy falls occurred in Chittagong and Dacca divisions and scattered to local in Khulna and Rajshahi divisions of the 20th and practically the whole province on the 21st. According to news paper reports on the morning of the 23rd severe norwesters ravaged Rangpur and adjoining areas and three villages of Bakir union. As a result two persons were killed and several others were injured and hundreds were rendered homeless. Another Norwester caused the death of one person and injury to several others in five unions of Narial sub-division and in one union of Jessor district on the 21st. 100 houses were blown away, trees were uprooted and considerable damage was caused to the standing crops. Thereafter the seasonal trough of low pressure remained fairly marked and under its influence scattered rain or thundershowers occurred in Chittagong division on the 22nd and in Dacca and Rajshahi divisions on the 23rd. A western disturbance started affecting the western parts of the province on the 24th and moved away slowly eastwards by the 26th. It caused fairly widespread rain or thundershowers in Rajshahi division and local in Khulna division on the 24th and scattered to local over the whole province on the 25th and the 26th.

Outstanding amounts of rain fall were Majdee Court and Comila 3" each and Dacca 2" on the 28th and Satkhira and Rajshahi 1" each on the 24th.

Day temperatures were markedly to considerably below normal over the province on the 20th and the in Rajshahi division on the 21st. These were slightly to appreciably below normal in Khulna Dacca and Chittagong divisions on the 21st and practically over the whole province on the 23rd, 24th and the 26th, in Rajshahi division on the 25th and in Rajshahi and Khulna divisions on the 22nd.

**WEST PAKISTAN:** Two western disturbances affected the weather over the province during the week. The first one was feeble and moved away eastwards across the northern areas of the province after causing a few falls of the light rain or thunderstorms in Quetta division on the 21st and in the northern and central divisions of the province on the next day. The second disturbance moving north eastwards across south Iran on the 22nd lay over Kashmir with its trough extending to Lahore division on the last day of the week. Under its influence fairly widespread rain or thundershowers occurred in Peshawar division local in D. I. Khan division and scattered in Quetta division on the 26th, in Peshawar and Quetta divisions on the 25th and in Quetta division on the 24th. A few falls of light rain or thunderstorms were also reported from Bahawalpur and D. I. Khan divisions on the 26th.

Chief amounts of rainfall were Paracinar 3/4" on the 25th and 1 1/2" on the 26th and the Landikotal and Miranshah 1" each; Fortsandman 3/4" and Peshawar 1/2" on the 26th.

Day temperatures were slightly to appreciably above normal practically over the whole province on 20th and 21st and between the 23rd and the 25th, in northern and central divisions on the 26th and Mulan, Bahawalpur, D. I. Khan and Hyderabad divisions on 22nd and the slightly to appreciably below normal in Rawalpindi division on the 22nd and in Hyderabad division on the 26th.

2. CHITTAGONG DIVISION :	Widespread and local rain fell on one day each and scattered on three days.
DACCA DIVISION :	Fairly widespread and local rain fell on one day each and scattered on two days.
KHULNA DIVISION :	Local rain fell on three days.
RAJSHAHI DIVISION :	Fairly widespread rain fell on one day and scattered on five days.
KASHMIR :	Data not available.
LAHORE DIVISION :	} Weather remained mainly dry.
RAWALPINDI DIVISION :	
SARGODHA DIVISION :	Weather remained dry.
MULTAN DIVISION :	Weather remained dry.
BAHAWALPUR DIVISION :	Weather remained mainly dry.
PESHAWAR DIVISION :	Scattered rain fell on one day.
D. I. KHAN DIVISION :	Local rain fell on one day.
QUETTA DIVISION :	Scattered rain fell on three days.
KALAT DIVISION :	} Weather remained dry.
KARACHI DIVISION :	
HYDERABAD DIVISION :	
KHAIRPUR DIVISION :	
JUNAGADH	Data not available.

3. Based on the data of stations having normals, the week's rainfall was in excess in Rajshahi division and normal in Chittagong, Khulna and Karachi divisions and deficient in Dacca, D. I. Khan and Quetta divisions and scanty in Rawalpindi division. No rain fell elsewhere over West Pakistan.

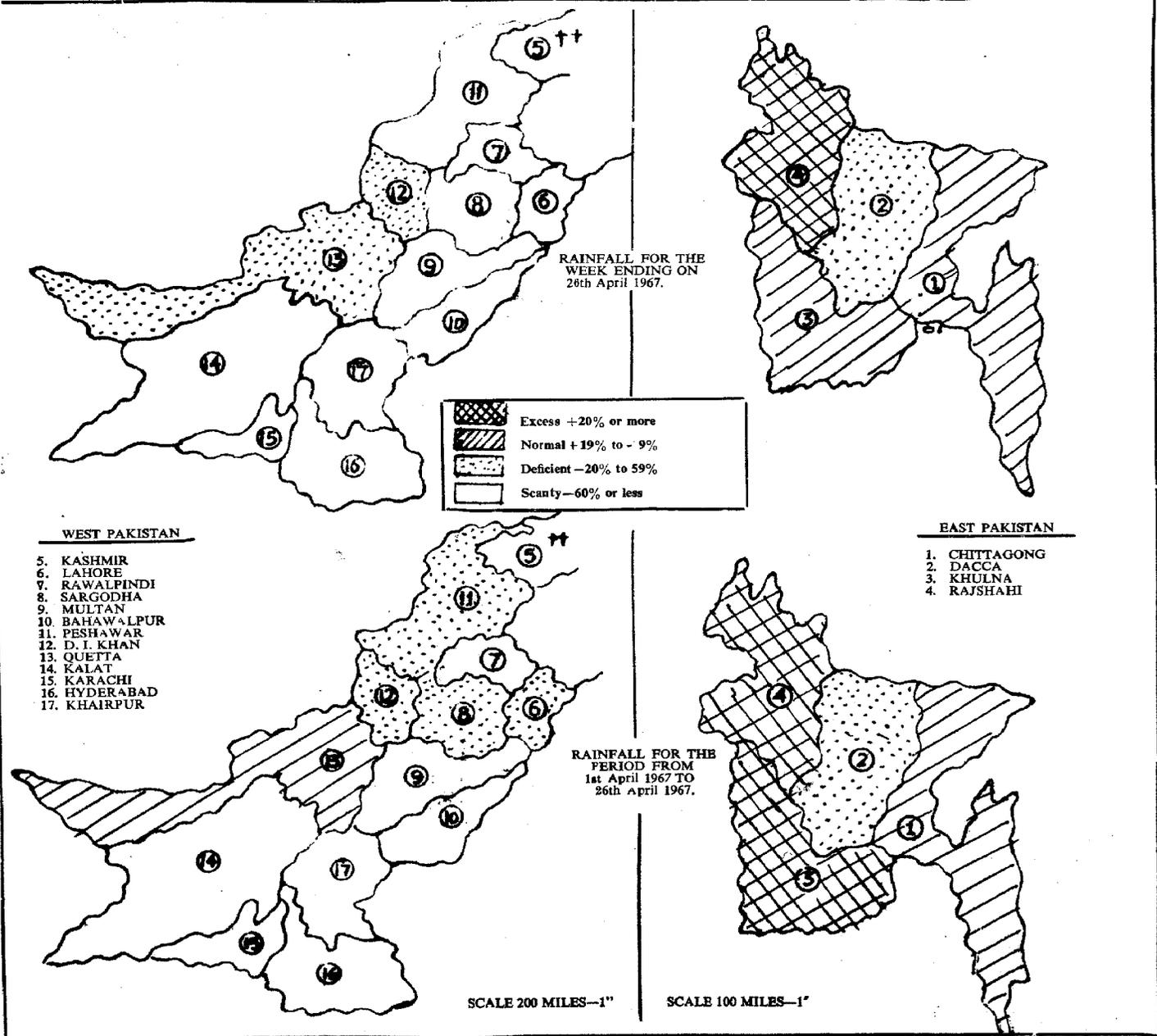
Rainfall for the period from 1st April, 1967 to-date was in excess in Khulna and Rajshahi divisions normal in Chittagong and Quetta divisions, deficient in Dacca, Lahore, Sargodha and Peshawar and D. I. Khan divisions and scanty in Rawalpindi, and Multan divisions. No rainfall elsewhere in West Pakistan.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st April, 1967 to-date.

# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 26th April 1967.			Rainfall for the Period from 1st April 1967 to 26th April 1967.			
	† Actual	Normal	*Excess or defect	*Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	1.5	1.7	- 0.1	4.6	4.9	- 0.2	- 5
2. Dacca	1.0	1.5	- 0.5	3.1	4.1	- 1.1	- 26
3. Khulna	0.9	1.1	- 0.2	3.4	2.7	+ 0.7	+ 27
4. Rajshahi	1.1	0.7	+ 0.5	3.1	2.2	+ 0.9	+ 44
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0	0.1	- 0.1	0.3	0.5	- 0.1	- 30
7. Rawalpindi	0.1	0.5	- 0.5	0.7	2.8	- 2.1	- 75
8. Sargodha	0	0.2	- 0.2	0.4	0.7	- 0.3	- 40
9. Multan	0	0.1	- 0.1	0.1	0.3	- 0.2	- 79
10. Bahawalpur	0	0.2	- 0.1	0	0.2	- 0.2	- 100
11. Peshawar	0	0.6	- 0.6	1.1	2.0	- 0.9	- 45
12. D. I. Khan	0.1	0.1	- 0.1	0.5	1.0	- 0.5	- 48
13. Quetta	0.1	0.1	- 0.1	0.7	0.7	0	Normal
14. Kalat	0	0.1	- 0.1	0	0.5	- 0.5	- 100
15. Karachi	0	0	0	0	0.4	- 0.4	- 100
16. Hyderabad	0	0	0	0	0	0	- 100
17. Khairpur	0	0	0	0	0.1	- 0.1	- 100
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. Data not available.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 3rd May, 1967.

—o:O:o—

## SUMMARY OF WEATHER

**EAST PAKISTAN:** The seasonal trough of low pressure over Bihar and West Bengal remained well marked between the 28th and the 2nd causing incursion of moist southerlies from the Bay of Bengal. Under its influence local to fairly widespread rain or thundershowers occurred in Chittagong division between the 28th and the 22nd, in Dacca division on the 30th and the 2nd, in Khulna division on the 28th and in Rajshahi division on the 28th and the 30th, scattered in Dacca division on the 29th and the 1st, in Khulna division on the 27th and the 2nd and in Rajshahi division only on the 29th. A few thunderstorms also occurred in Chittagong and Dacca divisions on the last day of the week. Some of these thundershowers according to news paper reports, were accompanied with Norwesters, one of which killed 17 persons and injured 500 others in Dacca districts; another one killed 5 persons in Comilla district on the 1st.

Chief amounts of rainfall recorded were: Barisal 1½" on the 27th; Comilla 3" and Rajshahi 2" on the 28th; Dacca and Faridpur 1½" each on the 30th; Rangamati and Maijdee Court 1½" each on the 1st and Comilla 3" and Maijdee Court and Dacca 2" each on the 2nd.

Day temperatures were slightly to appreciably below normal particularly in the whole province during the week except on the 2nd when there were to the same extent above normal.

**WEST PAKISTAN:** Last week's western disturbance over Kashmir with its trough extending to Lahore division moved away eastwards by the 28th. Another western disturbance moving across north of Afghanistan induced a secondary over Quetta division on the 27th with trough extending to southwest sector of North Arabian Sea. The secondary disturbance moved away slowly northeastwards across the northern divisions of the province by the 1st while its trough became unimportant over northeast sector of North Arabian Sea. Under the combined influence local to fairly widespread rain or thundershowers occurred in Peshawar and Rawalpindi divisions between the 27th and the 1st, in Sargodha division on the 29th and in D.I. Khan division on the 28th and scattered to local particularly elsewhere in the province between the 27th and the 3rd. According to news paper reports some of the thunderstorms were preceded by the duststorms which uprooted trees and snapped telephonic and electric wires in Nawabshah on the 27th and one person was killed due to lightning in Karachi on the 28th. Another report stated heavy snowfalls in Chitral on the 29th. A fresh western disturbance moving across Afghanistan lay over Kashmir on the last day of the week. It caused scattered rain or thundershowers in Rawalpindi and Peshawar divisions on the 2nd and the 3rd respectively and light rain or thunderstorms in some of the northern and central divisions between the 2nd and the 3rd.

Chief amounts of rainfall were: Drosh 1" on the 27th; Landikotal 2", Murree 1½" and Chakdara and Kakul 1" each on the 28th; Murree 2" and Drosh 1" on the 29th and Loralai 3/4" on the 30th.

Day temperatures were markedly to considerably below normal in Rawalpindi and Peshawar divisions on the 27th and in these and in Hyderabad, Khairpur, Bahawalpur and Multan divisions on the 28th, particularly in the whole province on the 29th and the 2nd and in the northern and central divisions on the 30th, 1st and the 3rd. These were slightly to appreciably so elsewhere in the province during the week.

2. CHITTAGONG DIVISION :	Widespread and local rain fell on two days each and fairly widespread on one day.
DACCA DIVISION :	} Widespread and fairly widespread rain fell on one day each and scattered on two days.
KHULNA DIVISION :	
RAJSHAHI DIVISION :	
KASHMIR :	Data not available.
LAHORE DIVISION :	Scattered rain fell on one day.
RAWALPINDI DIVISION :	Fairly widespread rain fell on two days.
SARGODHA DIVISION :	} Widespread and fairly widespread rain fell on one day each and scattered on two days.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Widespread, fairly widespread and scattered rain fell on two days each.
D. I. KHAN DIVISION :	Fairly widespread, rain fell on one day and scattered on two days.
QUETTA DIVISION :	Local rain fell on three days and scattered on one day.
KALAT DIVISION :	} Scattered rain fell on one day.
KARACHI DIVISION :	
HYDERABAD DIVISION :	
KHAIRPUR DIVISION :	Local and scattered rain fell on one day each.
JUNAGADH :	Weather remained mainly dry.
	Data not available.

3. Based on the data of stations having normals, the week's rainfall was in large excess in West Pakistan outside Lahore, Bahawalpur and Khairpur divisions; excess in Chittagong division; normal in Rajshahi division; deficient in Dacca, Khulna, Lahore divisions and scanty in Khairpur division. No rain fell in Bahawalpur division.

Rainfall for the period from 1st April 1967 to-date was in large excess in Quetta and Hyderabad divisions; excess in Rajshahi, Rawalpindi and Sargodha divisions; normal in Chittagong, Khulna and Peshawar divisions; deficient in Dacca, Lahore, Multan, D. I. Khan, Kalat and Karachi divisions and scanty in Khairpur division, whereas no rain has fallen in Bahawalpur division.

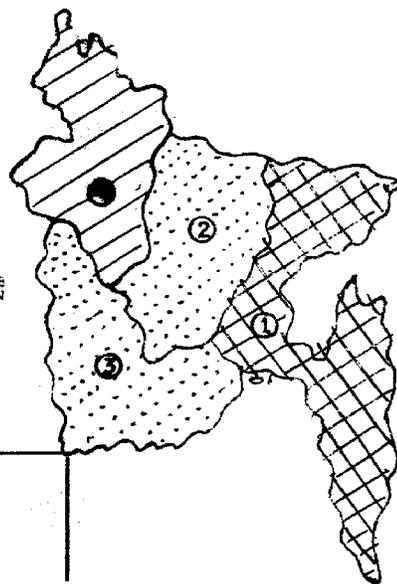
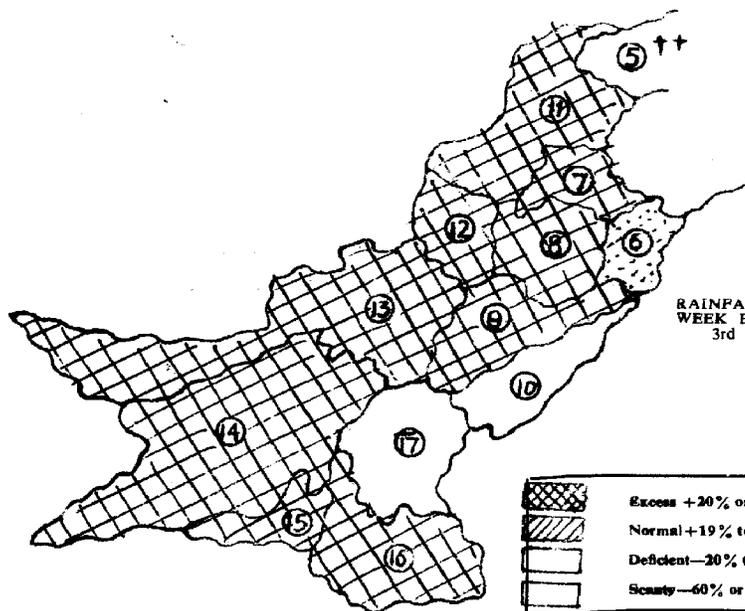
4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st April, 1967 to-date.

N. A. QURESHI

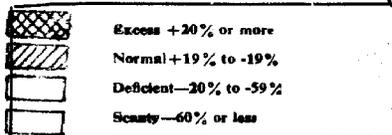
# WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending the 3rd May 1967.			Rainfall for the Period from 1st April, 1967 to 3rd May 1967.			
	† Actual	Normal	* Excess or defect	† Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	3.4	2.6	+ 0.9	8.0	7.4	+ 0.6	+ 8
2. Dacca	1.3	1.9	- 0.6	4.4	6.0	- 1.2	- 28
3. Khulna	0.8	1.4	- 0.6	4.2	4.1	+ 0.1	+ 3
4. Rajshahi	0.9	1.0	- 0.1	4.1	3.2	+ 0.9	+ 28
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0.1	0.2	- 0.1	0.4	0.7	- 0.2	- 36
7. Rawalpindi	3.4	0.3	+ 3.1	4.1	3.1	+ 1.0	+ 33
8. Sargodha	0.7	0.1	+ 0.6	1.1	0.8	+ 0.3	+ 43
9. Multan	0.1	0.1	+ 0.1	0.2	0.3	- 0.2	- 47
10. Bahawalpur	0	0	0	0	0.2	- 0.2	- 100
11. Peshawar	1.3	0.3	+ 1.0	2.5	2.4	+ 0.1	+ 4
12. D. I. Khan	0.3	0.1	+ 0.3	0.8	1.1	- 0.2	- 22
13. Quetta	0.7	0.1	+ 0.6	1.4	0.8	+ 0.6	+ 70
14. Kalat	0.3	0	+ 0.3	0.3	0.5	- 0.2	- 39
15. Karachi	0.3	0	+ 0.3	0.3	0.4	- 0.1	- 21
16. Hyderabad	0.5	0.1	+ 0.4	0.5	0.1	+ 0.4	+ 292
17. Khairpur	0	0	0	0	0.2	- 0.2	- 94
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01'  
 † Rainfall of stations having no normals is not included. ††Data not available.



RAINFALL FOR THE  
WEEK ENDING ON  
3rd May 1967.

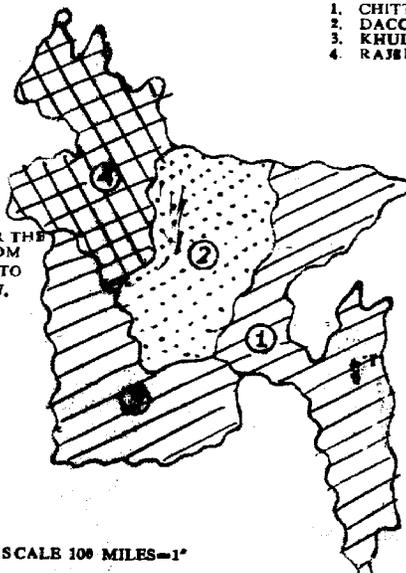
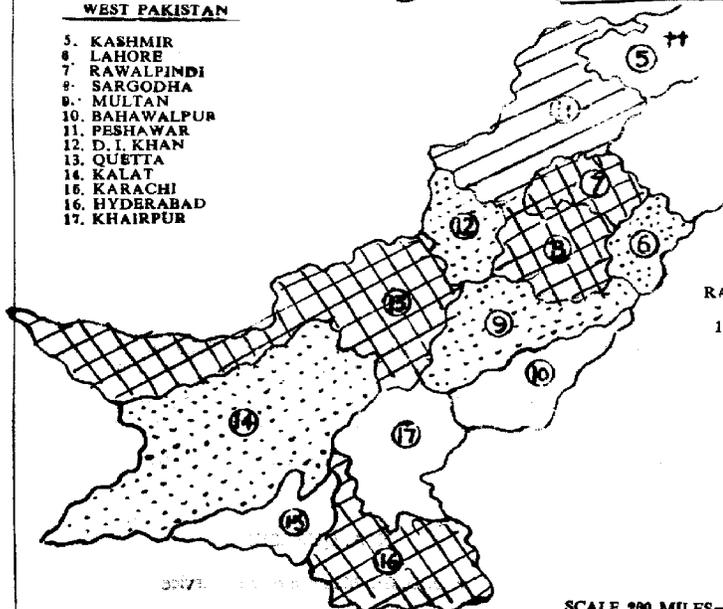


**WEST PAKISTAN**

- 5. KASHMIR
- 6. LAHORE
- 7. RAWALPINDI
- 8. SARGODHA
- 9. MULTAN
- 10. BAHAWALPUR
- 11. PESHAWAR
- 12. D. I. KHAN
- 13. QUETTA
- 14. KALAT
- 15. KARACHI
- 16. HYDERABAD
- 17. KHAIRPUR

**EAST PAKISTAN**

- 1. CHITTAGONG
- 2. DACCA
- 3. KHULNA
- 4. RAJSHAHI



RAINFALL FOR THE  
PERIOD FROM  
1st April, 1967 TO  
3rd May 1967.

SCALE 200 MILES=1"

SCALE 100 MILES=1"

## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 10th May, 1967.

—:O:o—

### SUMMARY OF WEATHER

**EAST PAKISTAN:** A western disturbance which lay over Chota Nagpur and adjoining areas on the 5th and moved away across the province by the 7th, caused local to fairly widespread rain or thundershowers in Chittagong and Dacca divisions between the 5th and 7th and in Dacca division on the 4th and in Khulna division on the 5th and scattered thundershowers in Rajshahi division between the 4th and 7th and in Chittagong division on the 4th and in Khulna division on the 6th. According to news paper reports, a severe Norwester struck Faridpur district on the 4th injuring 80 persons and leaving behind a trail of demolished houses and uprooted trees. Thereafter under the influence of seasonal trough of low pressure over Bihar and West Bengal, scattered to local thunderstorms or showers occurred in the province outside Khulna division on the 9th and the 10th and only in Chittagong division on the 8th.

Significant amounts of rainfall recorded were: Sylhet, Pabna and Sirajganj 2" each on the 6th and Brahmanbaria 3" on the 7th and the 8th.

Day temperatures were slightly to appreciably above normal in the province on the 4th and the 5th and between the 7th and the 9th and only in Chittagong and Khulna divisions on the 10th.

**WEST PAKISTAN:** Last week's western disturbance over Kashmir moved away northeastwards on the first day of the week. It was closely followed by two feeble western disturbances which moved across the extreme northern parts of the province between the 5th and the 8th. Under their combined influence scattered rain or thundershowers occurred in Rawalpindi and Peshawar divisions between the 4th and the 6th and a few falls of light rain or thunderstorms in Lahore, Sargodha, Bahawalpur and Peshawar divisions on the 4th and in the last named division on the 7th and the 8th. Another western disturbance moving across east Iran to north Afghanistan caused scattered to local rain or thundershowers in Peshawar and Rawalpindi divisions and isolated thunderstorms in Sargodha division on the last day of the week. A ridge of high pressure in the wake of this disturbance brought northwesterly hot air from the interior to the southern districts which were consequently gripped by a heat wave. The highest maximum temperature of 114°F (46°C) was recorded at Turbat on the 10th. Chief amounts of rainfall recorded were: Haripur 1½" and Chakdara 1/4" on the 5th; Murree and Parachinar 1/4" each on the 6th and Drosh, and Kakul 1/4" each on the 10th.

Day temperatures were markedly to considerably below normal Quetta and Kalat divisions and in the northern and central divisions between the 5th and the 6th and slightly to appreciably so elsewhere in the province on the 7th and the 8th. These were to the same extent above normal in the province on the 9th and in Sargodha, Multan, Bahawalpur and Hyderabad divisions on the 10th.

<b>2. CHITTAGONG DIVISION :</b>	Local rain fell on four days and scattered on two days.
<b>DACCA DIVISION :</b>	Widespread rain fell on one day and local on three days and scattered on two days.
<b>KHULNA DIVISION :</b>	Fairly widespread and scattered rain fell on one day each.
<b>RAJSHAHI DIVISION :</b>	Local rain fell on one day and scattered on five days.
<b>KASHMIR DIVISION :</b>	Data not available.
<b>LAHORE DIVISION :</b>	Weather remained mainly dry.
<b>RAWALPINDI DIVISION :</b>	Scattered rain fell on three days.
<b>SARGODHA DIVISION :</b>	Weather remained dry.
<b>MULTAN DIVISION :</b>	
<b>BAHAWALPUR DIVISION :</b>	
<b>PESHAWAR DIVISION :</b>	Local rain fell on one day and scattered on three days.
<b>D.I. KAHN DIVISION :</b>	Weather remained dry.
<b>QUETTA DIVISION :</b>	
<b>KALAT DIVISION :</b>	
<b>KARACHI DIVISION :</b>	
<b>HYDERABAD DIVISION :</b>	
<b>KHAIRPUR DIVISION :</b>	Data not available.
<b>JUNAGADH</b>	

3. Based on the data of stations having normals, the week's rainfall was in large excess in Rajshahi divisions; normal in Chittagong division and deficient in Dacca, Khulna and Rawalpindi divisions and scanty in Lahore and Peshawar divisions whereas no rain fell elsewhere in West Pakistan.

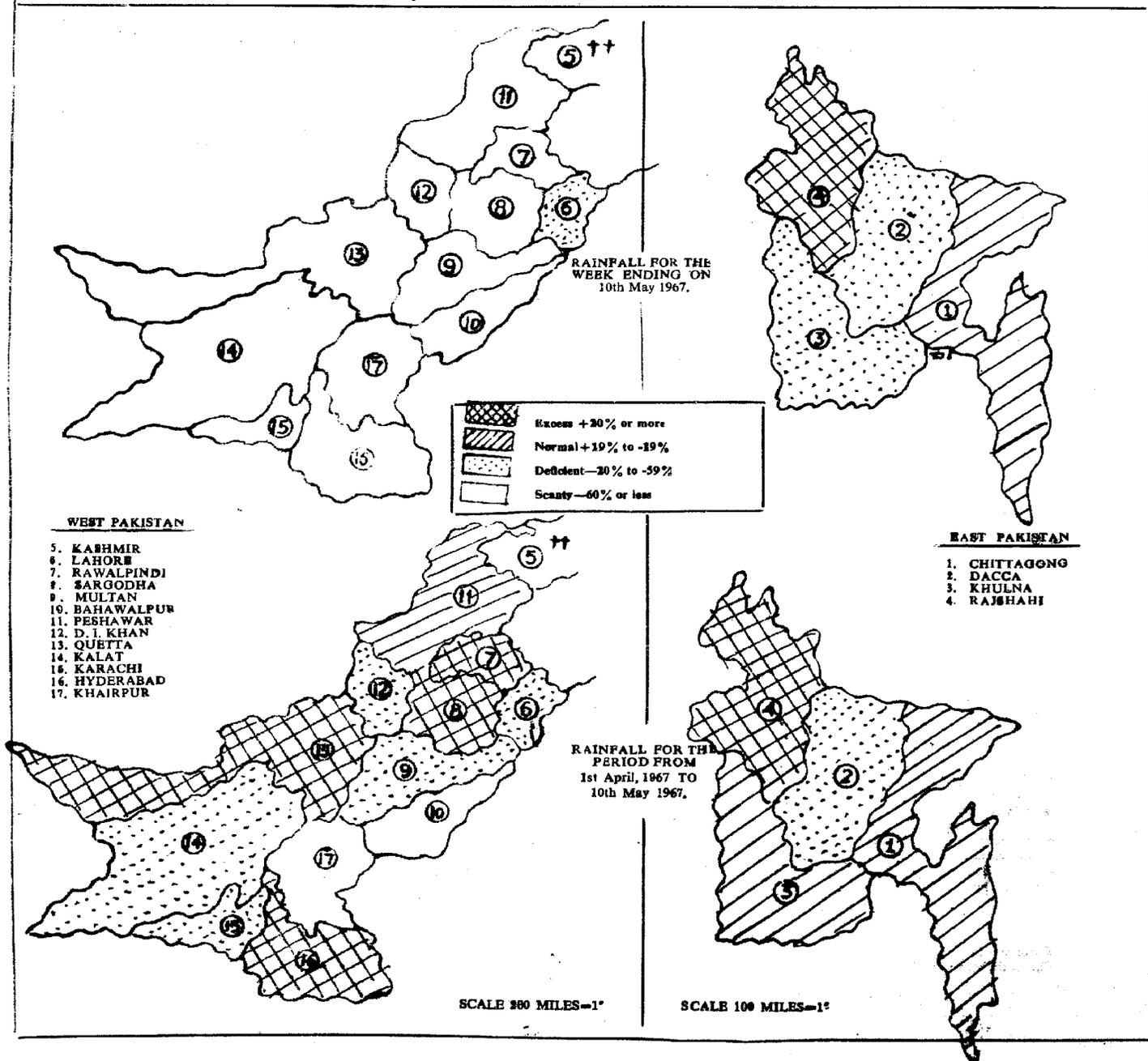
Rainfall for the period from 1st April 1967 to date was in large excess in Rajshahi and Hyderabad divisions and excess in Rawalpindi, Sargodha and Quetta divisions; normal in Chittagong, Khulna and Peshawar divisions; deficient in Dacca, Lahore, Multan, D. I. Khan, Kalat and Karachi divisions and scanty in Khairpur divisions. Whereas no rain has fallen so far in Bahawalpur division.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st April 1967 to-date.

# WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending the 10th May 1967.			Rainfall for the Period from 1st April, 1967 to 10th May 1967.			
	† Actual	Normal	* Excess or defect	† Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	2.2	2.5	- 0.3	10.2	9.9	+ 0.3	+ 3
2. Dacca	1.5	1.9	- 0.5	5.9	8.0	- 2.1	- 27
3. Khulna	1.0	1.7	- 0.7	5.2	5.8	+ 0.6	- 10
4. Rajshahi	3.3	1.4	+ 1.9	7.3	4.6	+ 2.7	+ 60
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0	0.2	- 0.1	0.5	0.8	- 0.4	- 46
7. Rawalpindi	0.3	0.4	- 0.1	4.5	3.6	+ 0.9	+ 25
8. Sargodha	0	0.1	- 0.1	1.1	0.9	+ 0.3	+ 28
9. Multan	0	0.1	- 0.1	0.2	0.4	- 0.2	- 56
10. Bahawalpur	0	0	0	0	0.2	- 0.2	- 100
11. Peshawar	0	0.3	- 0.3	2.5	2.7	+ 0.2	+ 8
12. D. I. Khan	0	0.1	- 0.1	0.8	1.1	- 0.3	- 27
13. Quetta	0	0.1	- 0.1	1.4	0.9	+ 0.5	+ 56
14. Kalat	0	0	0	0.3	0.5	- 0.2	- 40
15. Karachi	0	0	0	0.3	0.4	- 0.1	- 23
16. Hyderabad	0	0	0	0.5	0.1	+ 0.4	+ 240
17. Khairpur	0	0.1	- 0.1	0	0.3	- 0.2	- 96
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01'  
 † Rainfall of stations having no normals is not included. ††Data not available.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 17th May, 1967.

—o:O:o—

### SUMMARY OF WEATHER

**EAST PAKISTAN:** The seasonal trough of low pressure over West Bengal remained well marked and caused scattered to local thunderstorms or showers practically over the whole province during the week except in Khulna division where scattered thundershowers occurred on the 15th and 16th. According to newspapers reports a violent squall accompanying a thunderstorm on the evening of the 11th killed 4 persons and injured 25 others in Mymensingh district.

An easterly low pressure wave entering southeast Bay of Bengal on the 13th and moving northeastwards into the east central Bay of Bengal gradually developed into a severe cyclonic storm that was centred on the 17th within a degree of latitude 15°N and longitude 19½°E.

Chief amounts of rainfall recorded were: Brahmanbaria and Dacca 1" each on the 11th; Sylhet 1" on the 13th and 1½" on the 14th and Rajshahi 1½" on the 17th.

Day temperatures were slightly to appreciably below normal normal in Rajshahi division on the 11th, over the whole province on the 12th and the 13th and in Dacca, Khulna and Rajshahi divisions on the 14th and slightly to appreciably above normal in Chittagong division on the 15th, in Dacca, Khulna and Chittagong divisions on the 11th and the 16th and over the whole province on the 17th.

**WEST PAKISTAN:** Last week's western disturbance moved away across north of Kashmir after causing scattered rain in Rawalpindi division on the 11th. The weather remained otherwise dry over the province. The abnormal hot weather which started last week in the southern divisions of the province continued during the first five days of the week when day temperatures remained markedly to considerably above normal. The highest maximum temperature of 119°F (48°C) was recorded at Fardat on the 16th. Temperatures were slightly to appreciably below normal elsewhere in the province between the 12th and the 14th and were to the same extent above normal in the southern divisions on the 16th and over the whole province on the 17th.

<b>2. CHITTAGONG DIVISION :</b>	Local rain fell on one day and scattered on five days.
<b>DACCA DIVISION :</b>	Fairly widespread and local rain fell on one day each and scattered on three days.
<b>KHULNA DIVISION :</b>	Scattered rain fell on two days.
<b>RAJSHAHI DIVISION :</b>	Local rain fell on four days and scattered on three days.
<b>KASHMIR DIVISION :</b>	Data not available.
<b>LAHORE DIVISION :</b>	Weather remained dry.
<b>RAWALPINDI DIVISION :</b>	Scattered rain fell on one day.
<b>SARGODHA DIVISION :</b>	} Weather remained dry.
<b>MULTAN DIVISION :</b>	
<b>BAHAWALPUR DIVISION :</b>	
<b>PESHAWAR DIVISION :</b>	
<b>D.I. KAHN DIVISION :</b>	
<b>QUETTA DIVISION :</b>	
<b>KALAT DIVISION :</b>	
<b>KARACHI DIVISION :</b>	
<b>HYDERABAD DIVISION :</b>	
<b>KHAIRPUR DIVISION :</b>	
<b>JUNAGADH</b>	Data not available.

3. Based on the data of stations having normals, the week's rainfall was normal in Dacca division; deficient in Rajshahi division; scanty in Khulna, Chittagong and Rawalpindi divisions, whereas no rain fell elsewhere in West Pakistan.

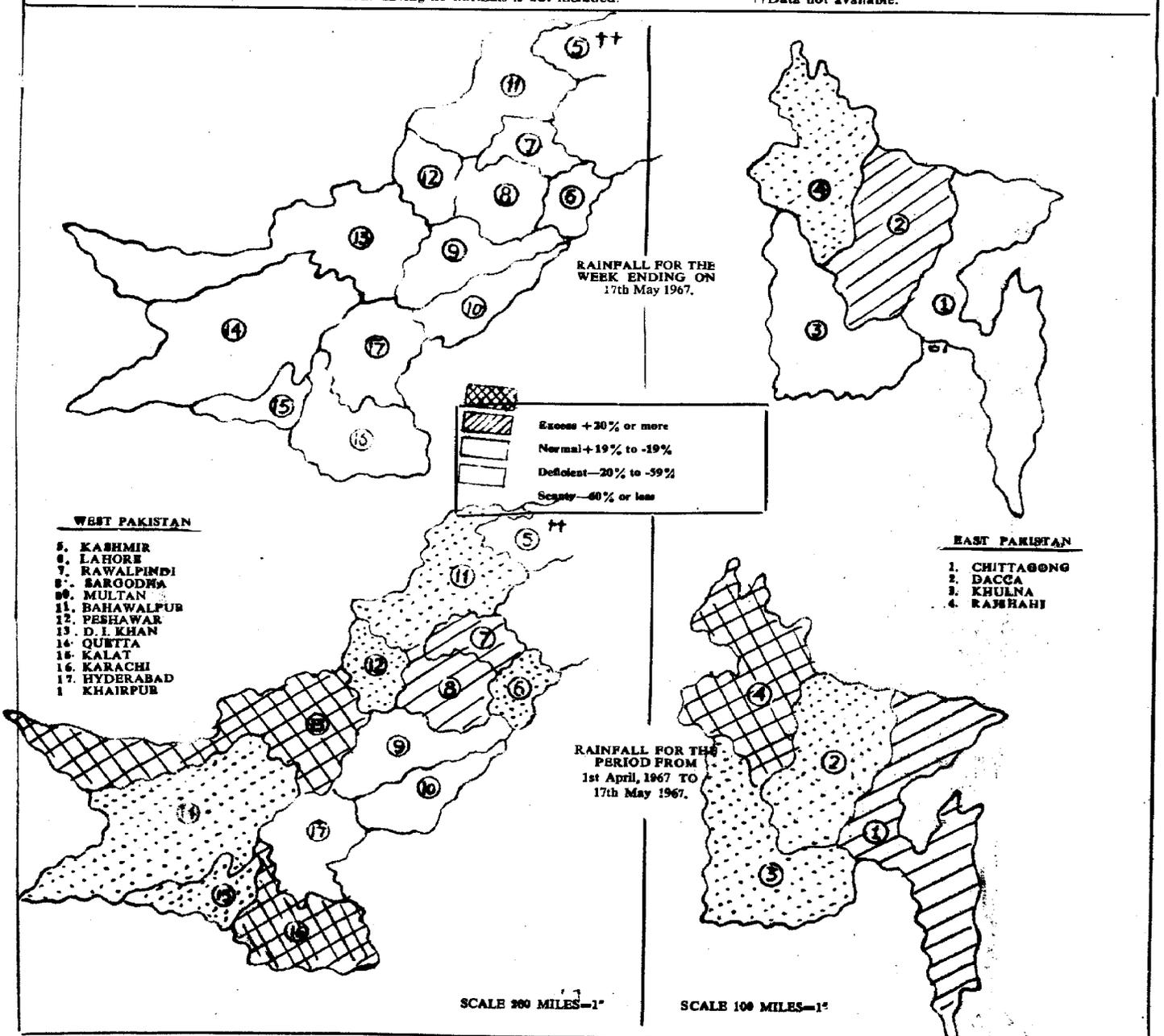
The rainfall for the period from 1st April 1967 to-date was in large excess in Hyderabad division; excess in Rajshahi and Quetta divisions; normal in Chittagong, Rawalpindi and Sargodha divisions; deficient in Dacca, Khulna, Lahore, Peshawar, D. I. Khan, Kalat and Karachi divisions and scanty in Multan and Khairpur divisions. No rain has so far fallen in Bahawalpur division.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st April 1967 to-date.

# WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending the 17th May 1967.			Rainfall for the Period from 1st April, 1967 to 17th May 1967.			
	† Actual	Normal	*Excess or defect	† Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	0.3	2.5	— 2.2	10.5	12.4	— 1.9	+ 15
2. Dacca	2.0	2.1	— 0.1	7.9	10.1	— 2.3	— 22
3. Khulna	0.1	1.6	— 1.5	5.3	7.4	+ 2.1	— 29
4. Rajshahi	0.8	1.6	— 0.7	8.2	6.2	+ 2.0	+ 33
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0	0.3	— 0.3	0.5	1.1	— 0.7	— 59
7. Rawalpindi	0.1	0.5	— 0.4	4.5	4.1	+ 0.4	+ 11
8. Sargodha	0	0.3	— 0.3	1.1	1.1	0	normal
9. Multan	0	0.1	— 0.1	0.2	0.5	— 0.3	+ 64
10. Bahawalpur	0	0.1	— 0.1	0	0.3	— 0.3	— 100
11. Peshawar	0	0.4	— 0.4	2.5	3.1	+ 0.7	+ 21
12. D. I. Khan	0	0.2	— 0.2	0.8	1.3	— 0.5	— 36
13. Quetta	0	0.1	— 0.1	1.4	1.0	+ 0.4	+ 40
14. Kalat	0	0.1	— 0.1	0.3	0.6	— 0.3	— 48
15. Karachi	0	0	0	0.3	0.4	— 0.1	— 25
16. Hyderabad	0	0	0	0.5	0.2	+ 0.3	+ 219
17. Khairpur	0	0.1	— 0.1	0	0.3	— 0.3	— 97
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. ††Data not available.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 24th May, 1967.

—oTo—

### SUMMARY OF WEATHER

**EAST PAKISTAN:** Last week's severe cyclonic storm recurring northeastwards crossed Arakan coast about three hundred miles south of Chittagong on the morning of the 18th, weakened and moved away. East Pakistan escaped its fury and only a few falls of light rain or thunderstorms occurred in Chittagong division on the 18th and the 19th. Thereafter the seasonal trough of low pressure again established itself over West Bengal and gradually became well marked. Under its influence rain or thundershowers were fairly widespread in Dacca and Khulna divisions on the 23rd and only in the last named division on the 24th and scattered to local in Chittagong division between the 20th and the 24th and in Rajshahi division on the 19th, 21st, 23rd and the 24th and in Dacca and Khulna divisions on the 20th and the 22nd respectively. A few falls of light rain or thunderstorms also occurred in Khulna division on the 20th and 21st and in Rajshahi division on the 20th and the 22nd.

Chief amounts of rainfall were: Sirajgang  $1\frac{1}{2}$ " on 18th; Comilla  $1\frac{1}{2}$ " on the 21st and Khulna  $1\frac{1}{2}$ " and Faridpur 1" on the 23rd.

Day temperatures were slightly to appreciably above normal in the province between the 18th and the 22nd and were to the same extent below normal on the 24th.

**WEST PAKISTAN:** A feeble western disturbance travelling slowly in an east northeasterly direction across the extreme northern parts of the province and its associated trough across Multan and Lahore divisions moved away by the 24th. It closely followed by another western disturbance which lay over Afghanistan on the last day of the week. Under their combined influence scattered to local rain or thundershowers occurred in Peshawar division between the 21st and the 24th and in Rawalpindi division on the 24th. A few falls of light rain or thunderstorms also occurred in Peshawar division on the 20th, in Lahore and Rawalpindi divisions on the 21st, in these and in Quetta, and Khairpur divisions on the 23rd and in Khairpur division on 24th.

Chief amounts of rainfall were: Drosh  $1\frac{1}{4}$ " on the 23rd and Murree  $\frac{1}{2}$ " on the 24th.

Day temperatures were slightly to appreciably above normal practically over the whole province between the 18th and the 22nd. These were appreciably to markedly below normal in Quetta and Kalat divisions on the 23rd and markedly to considerably so in these divisions and slightly to appreciably so elsewhere in the province on the 24th.

2. CHITTAGONG DIVISION :	Local rain fell on three days and scattered on two days.
DACCA DIVISION :	Rainfall was widespread and local on one day each.
KHULNA DIVISION :	Fairly widespread rain fell on two days and local on one day.
RAJSHAHI DIVISION :	Local rain fell on two days and scattered on two days.
KASHMIR :	Data not available.
LAHORE DIVISION :	Weather remained mainly dry.
RAWALPINDI DIVISION :	Local rain fell on one day.
SARGODHA DIVISION :	} Weather remained dry.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Local and scattered rain fell on two days each.
D. I. KHAN DIVISION :	Weather remained dry.
QUETTA DIVISION :	Weather remained mainly dry.
KALAT DIVISION :	} Weather remained dry.
KARACHI DIVISION :	
HYDERABAD DIVISION :	
KHAIRPUR DIVISION :	Weather remained mainly dry.
JUNAGADH	Data not available.

3. Based on the data of stations having normals, the week's rainfall was in large excess in Khairpur divisions; normal in Khulna and Rawalpindi divisions; scanty in Chittagong, Dacca, Rajshahi, Peshawar and Quetta divisions; whereas no rain fell elsewhere in West Pakistan.

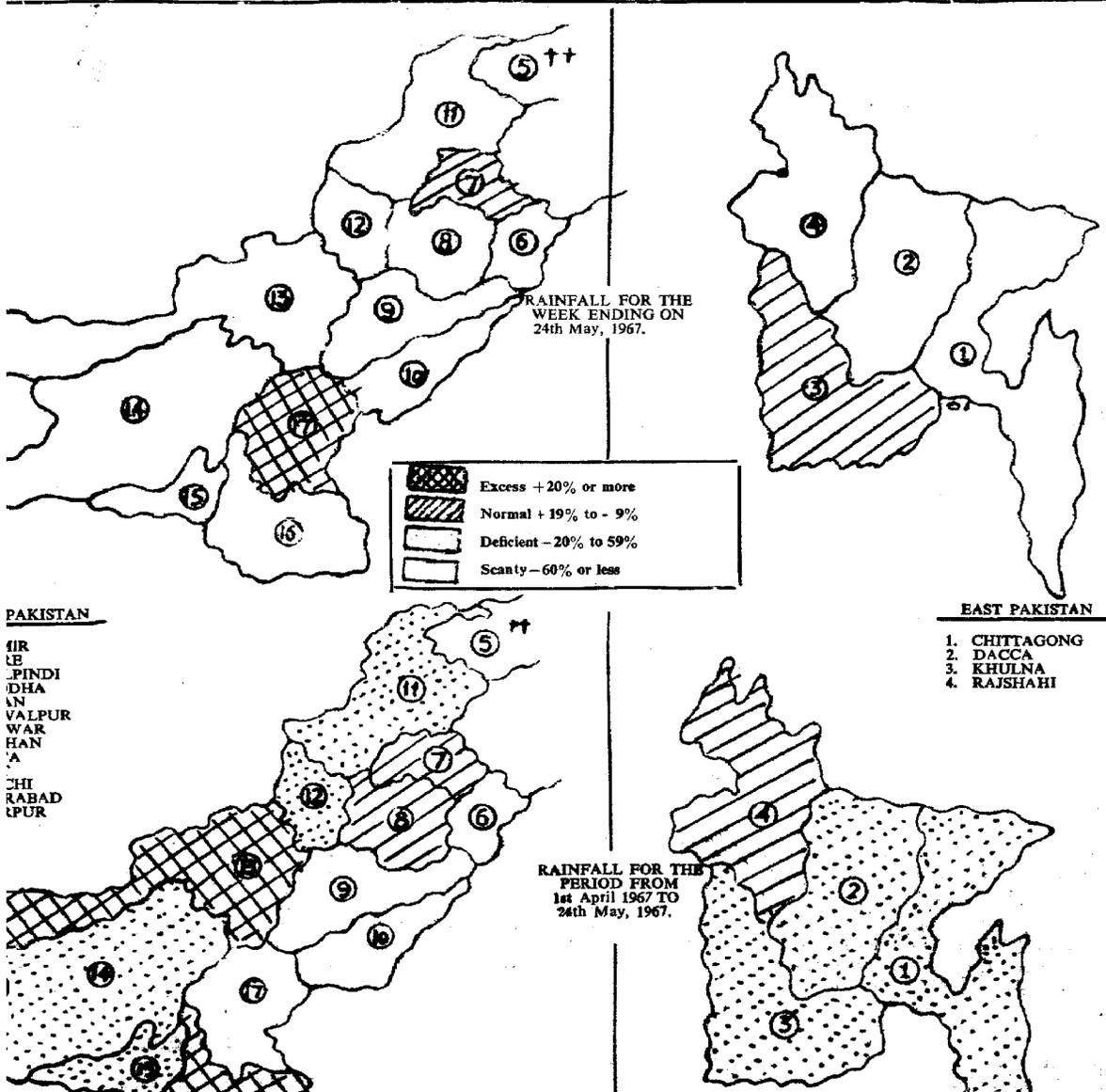
Rainfall for the period from 1st April 1967 to-date was in large excess in Hyderabad divisions; excess in Quetta division; normal in Rajshahi, Rawalpindi and Sargodha division; deficient in Chittagong, Dacca, Khulna, Peshawar, D. I. Khan, Kalat and Karachi divisions and scanty in Lahore, Multan and Khairpur divisions. No rain has so far fallen in Bahawalpur division.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st April, 1967 to-date.

# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 24th May, 1967.			Rainfall for the Period from 1st April 1967 to 24th May, 1967.			
	† Actual	Normal	*Excess or defect	*Actual	Normal	Excess or defect	
						Inches	Per
1. Chittagong	0.7	2.7	- 2.0	11.3	15.1	- 3.9	-
2. Dacca	0.7	2.3	- 1.6	8.6	12.4	- 3.8	-
3. Khulna	1.6	1.5	+ 0.1	6.9	8.9	- 2.0	-
4. Rajshahi	0.8	2.0	- 0.3	8.9	8.2	+ 0.8	+
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0	0.1	- 0.1	0.5	1.2	- 0.8	-
7. Rawalpindi	0.4	0.5	- 0	4.9	4.5	+ 0.4	+
8. Sargodha	0	0.1	- 0.1	1.1	1.2	- 0.1	-
9. Multan	0	0.1	- 0.1	0.2	0.6	- 0.4	-
10. Bahawalpur	0	0.2	- 0.1	0	0.3	- 0.3	-
11. Peshawar	0	0.2	- 0.2	2.5	3.3	- 0.8	-
12. D. I. Khan	0	0.1	- 0.1	0.8	1.4	- 0.6	-
13. Quetta	0	0.1	- 0.1	1.4	1.1	+ 0.3	+
14. Kalat	0	0	0	0.3	0.6	- 0.3	-
15. Karachi	0	0	0	0.3	0.4	- 0.1	-
16. Hyderabad	0	0.1	- 0.1	0.5	0.2	+ 0.3	+
17. Khairpur	0	0	0	0	0.3	- 0.3	-
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. Data not available.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 31st May, 1967.

—o:O:o—

### SUMMARY OF WEATHER

**EAST PAKISTAN:** The seasonal trough of low pressure over West Bengal and neighbour-hood remained well marked during the first three days of the week. Under its influence rain or thundershowers were widespread in Chittagong divisions, fairly widespread in Dacca and Khulna divisions and local in Rajshahi division on the 25th and scattered to local practically over the whole province on the 26th and the 27th. Weather remained dry over the province during the last four days of the week except for scattered thunderstorms or showers in Rajshahi division on the last day.

Significant amounts of rainfall recorded were:- Majidee Court 6", Brahmanbaria 3" and Chittagong and Narayanganj 2" each on the 25th; Sylhet 1½" on the 26th and 2" on the 27th.

Day temperatures were slightly to appreciably below normal over the province on the 25th and in Chittagong division on the 26th. They became slightly to appreciably above normal in Chittagong and Rajshahi divisions on the 27th and over the whole province on the last four days of the week.

**WEST PAKISTAN:** Last week's western disturbance over Kashmir moved away northeast wards by the 26th. Another western disturbance moving across Russian Turkistan induced a secondary low over Quetta division on the 27th; which moving slowly northeastwards, became unimportant over D.I. Khan division and neighbour-hood by the 30th. Under their combined influence local thunderstorms or showers occurred in Peshawar and Rawalpindi divisions on the 25th. Scattered thunderstorms or showers occurred in Peshawar division between the 26th and 29th, in Rawalpindi division between the 26th and 29th, in Sargodha division on the 25th. In Quetta division on the 29th and in Quetta and Kalat divisions on the 30th. A few thunderstorms also occurred in Lahore division on the 25th, in Quetta division on the 28th and in Multan division on the 29th.

Chief amounts of rainfall recorded were: Murree 1½" and Kakul 1" on the 25th; Chakdara ½" on the 27th; Murree ½" on the 28th and Panjgur ¾" on the 30th.

Day temperatures were markedly to considerably below normal in Quetta and Kalat and northern divisions between the 25th and the 27th and only in the northern divisions on the 28th and slightly to appreciably below normal in the province on the above date, over the whole province on the 29th and on the 30th and in Quetta, Kalat and Hyderabad divisions on the 31st.

2. CHITTAGONG DIVISION :	Widespread, local and scattered rain fell on one day each.
DACCA DIVISION :	Widespread and local rain fell on one day each.
KHULNA DIVISION :	Fairly widespread and scattered rain fell on one day each.
RAJSHAHI DIVISION :	Local and scattered rain fell on two days each.
KASHMIR DIVISION :	Data not available.
LAHORE DIVISION :	Weather remained mainly dry.
RAWALPINDI DIVISION :	Rainfall was local on one day and scattered on three days.
SARGODHA DIVISION :	Scattered rain fell on one day.
MULTAN DIVISION :	Weather remained dry.
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Local rain fell on one day and scattered on four days.
D.I. KHAN DIVISION :	Weather remained dry.
QUETTA DIVISION :	Scattered rain fell on one day.
KALAT DIVISION :	Scattered rain on two days.
KARACHI DIVISION :	Weather remained dry.
HYDERABAD DIVISION :	
KHAIRPUR DIVISION :	
JUNAGADH	Data not available.

3. Based on the data of stations having normals, the week's rainfall was normal in large excess in Rawalpindi division; deficient in Chittagong, Sargodha and Quetta divisions and scanty in Dacca, Khulna, Rajshahi and Lahore divisions. No rainfall in Multan, Bahawalpur, Peshawar, D.I. Khan, Kalat, Karachi, Hyderabad and Khairpur divisions during the week.

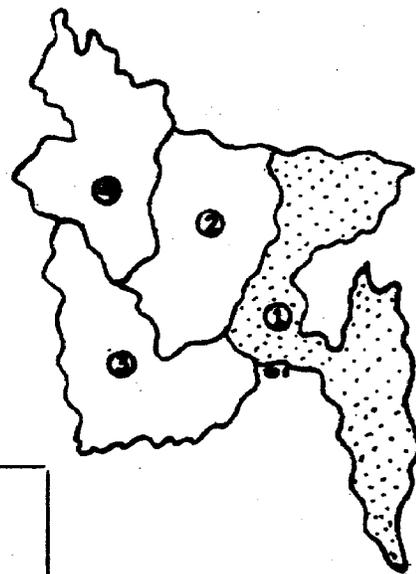
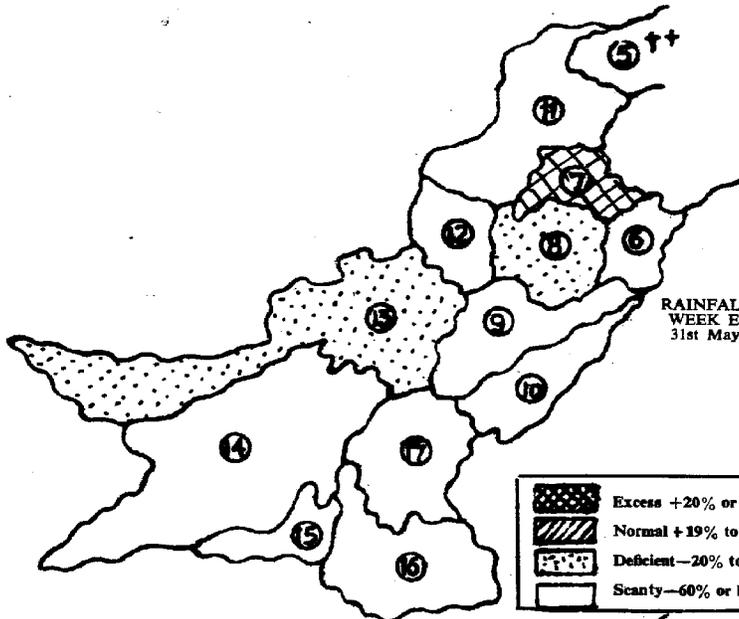
Rainfall for the period from 1st April 1967 to 31st May 1967 was in large excess in Hyderabad division; excess in Rawalpindi and Quetta divisions; normal in Rajshahi and Sargodha divisions; deficient in Chittagong, Khulna, Dacca, Peshawar, D. I. Khan, Kalat and Karachi divisions and scanty in Lahore, Multan and Khairpur divisions whereas no rainfall so far in Bahawalpur division.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st April 1967 to-date.

# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 31st May, 1967.			Rainfall for the Period from 1st April 1967 to 31st May, 1967.			
	† Actual	Normal	*Excess or defect	*Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	2.5	3.5	- 1.1	13.1	18.6	- 4.9	- 27
2. Dacca	1.6	3.3	- 1.7	10.3	15.7	- 5.5	- 35
3. Khulna	0.5	2.3	- 1.8	7.4	11.2	- 3.8	- 34
4. Rajshahi	0.8	3.2	- 2.4	9.8	11.4	- 1.6	- 14
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0	0.2	- 0.1	0.5	1.4	- 0.9	- 66
7. Rawalpindi	1.4	0.5	+ 0.9	6.4	5.0	+ 1.4	+ 28
8. Sargodha	0.1	0.1	- 0.1	1.2	1.4	- 0.2	- 12
9. Multan	0	0.1	- 0.1	0.2	0.7	- 0.5	- 73
10. Bahawalpur	0	0.1	- 0.1	0	0.4	- 0.4	- 100
11. Peshawar	0	0.2	- 0.2	2.5	3.5	- 1.0	- 29
12. D. I. Khan	0	0.1	- 0.1	0.8	1.5	- 0.7	- 44
13. Quetta	0.1	0.1	- 0.1	1.4	1.2	+ 0.3	+ 21
14. Kalat	0	0	0	0.3	0.6	- 0.3	- 50
15. Karachi	0	0	0	0.3	0.4	- 0.1	- 28
16. Hyderabad	0	0	0	0.5	0.3	+ 0.3	+ 96
17. Khairpur	0	0	0	0	0.3	- 0.3	- 93
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. Data not available.

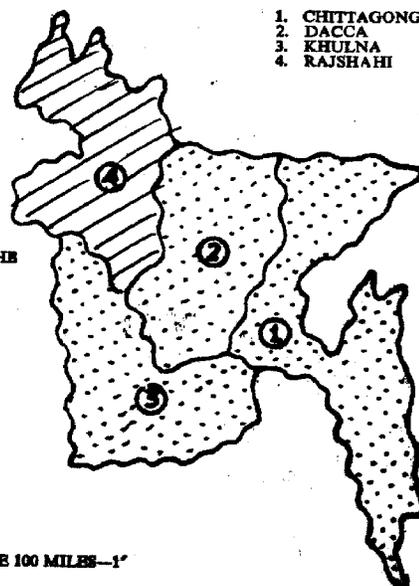
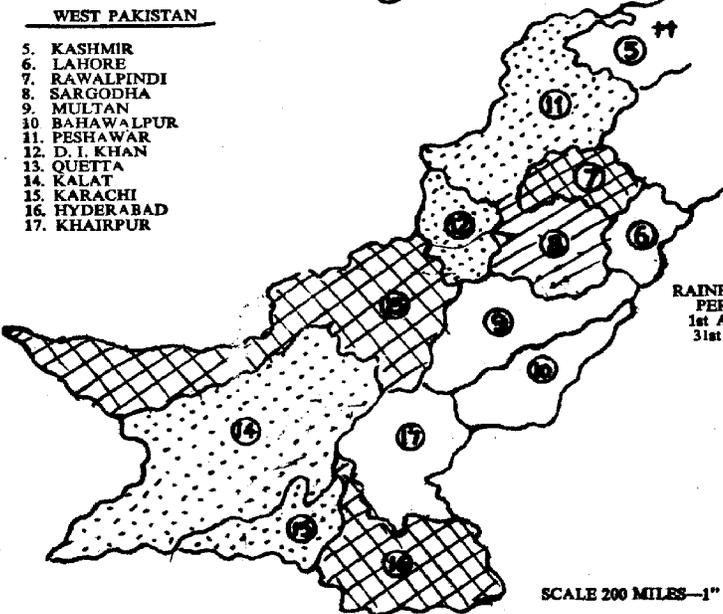


**WEST PAKISTAN**

- 5. KASHMIR
- 6. LAHORE
- 7. RAWALPINDI
- 8. SARGODHA
- 9. MULTAN
- 10. BAHAWALPUR
- 11. PESHAWAR
- 12. D. I. KHAN
- 13. QUETTA
- 14. KALAT
- 15. KARACHI
- 16. HYDERABAD
- 17. KHAIRPUR

**EAST PAKISTAN**

- 1. CHITTAGONG
- 2. Dacca
- 3. KHULNA
- 4. RAJSHAHI



SCALE 200 MILES—1"

SCALE 100 MILES—1"

## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 7th June, 1967.

—o:O:o—

### SUMMARY OF WEATHER

**EAST PAKISTAN:** The seasonal trough of low pressure over Bihar and neighbourhood remained weak upto the 4th and thunderstorms or showers caused scattered thunderstorms or showers in Chittagong division on the 1st to the 4th in Dacca division on the 2nd and in Rajshahi division on the 1st and the 2nd. Thereafter the seasonal trough shifted southwards and extended to the head Bay of Bengal by the end of the week. In its association incursion of moist southerlylies in to the province became well marked causing local to fairly widespread rain or thundershowers in Chittagong and Rajshahi divisions on the last three days and scattered to local thunderstorms or showers also occurred in Khulna division on the 5th and the 6th and in Dacca division on the 5th and the 7th. A few very heavy falls were recorded in Chittagong district on the 6th. Cox's Bazar reported 4" of rain.

Other significant amounts of rainfall recorded during the week were:- Sylhet 1½" on the 5th and 2" on the 6th and Brahmanbaria and Rajshahi 2" each and Majdee Court 1½" on the 7th.

Day temperatures were appreciably to markedly above normal on the first two days and slightly to appreciably above normal on first two days and slightly to aporeciably above normal during last five days over the province.

**WEST PAKISTAN:** A feeble western disturbance moving across the extreme northern parts of West Pakistan during the middle of the week caused scattered thunderstorms in Rawalpindi division on the 3rd and a few thunderstorms in Peshawar and D.I. Khan divisions on the 3rd, in Quetta, Lahore, Rawalpindi and Sargodha divisions on the 4th in Lahore and Peshawar divisions on the 5th. Weather was dry over the province during the rest of the week except for a few thunderstorms in Peshawar and Quetta divisions on the 1st due to the accentuation of the seasonal low Jhelum recorded ½" of rainfall on the 5th.

Day temperatures were slightly to appreciably below normal in the southern divisions on the 2nd, 3rd, 6th and the 7th and in Quetta division on the 2nd, 4th, 5th and the 6th. They were otherwise slightly to appreciably above normal over the province during the week.

2. CHITTAGONG DIVISION :	Local rain fell on four days and scattered on one day.
DACCA DIVISION :	Local and scattered rain fell on one day each.
KHULNA DIVISION :	Scattered rain fell on one day.
RAJSHAHI DIVISION :	Widespread and fairly widespread rain fell on one day each and scattered on two days.
KASHMIR DIVISION :	Data not available.
LAHORE DIVISION :	Weather remained dry.
RAWALPINDI DIVISION :	Scattered rain fell on one day.
SARGODHA DIVISION :	} Weather remained dry.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Weather remained mainly dry.
D.I. KAHN DIVISION :	Weather remained dry.
QUETTA DIVISION :	Weather remained mainly dry.
KALAT DIVISION :	} Weather remained dry.
KARACHI DIVISION :	
HYDERABAD DIVISION :	
KHAIRPUR DIVISION :	
JUNAGADH	Data not available.

3. Based on the data of stations having normals, the week's rainfall was deficient in Chittagong division; scanty elsewhere in East Pakistan and in Quetta division whereas no rain fallen so far in West Pakistan.

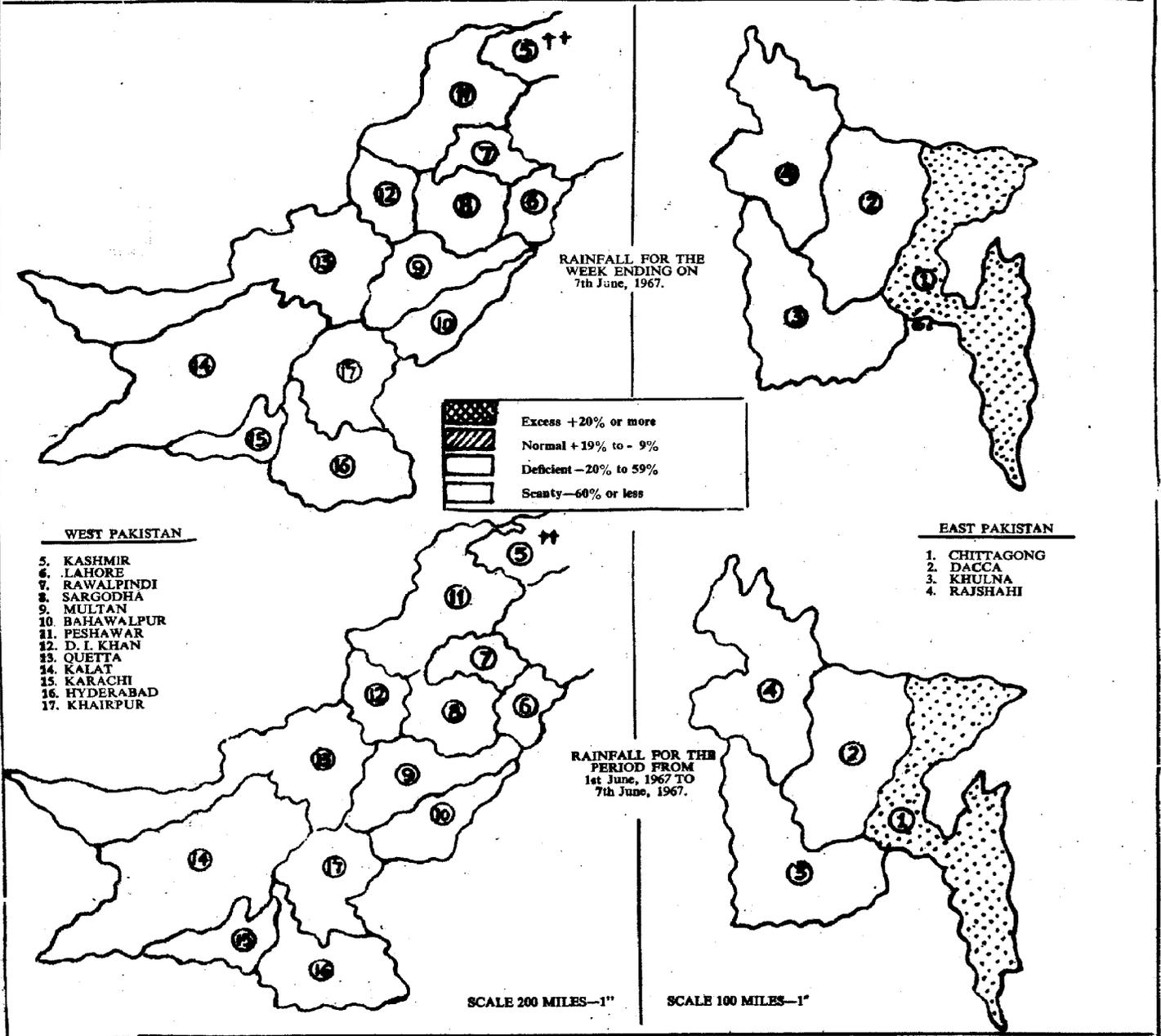
Rainfall for the period from 1st June 1967 to-date was deficient in Chittagong division and scanty in Rawalpindi division. No rain has so far fallen elsewhere in West Pakistan.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June 1967 to-date.

# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 7th June, 1967.			Rainfall for the Period from 1st June, 1967 to 7th June, 1967.			
	† Actual	Normal	*Excess or defect	*Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	1.7	4.1	- 2.4	1.7	4.1	- 2.4	- 58
2. Dacca	0.2	3.1	- 2.9	0.2	3.1	- 2.9	- 94
3. Khulna	0.1	2.1	- 2.1	0.1	2.1	- 2.1	- 97
4. Rajshahi	0.1	3.0	- 1.9	1.1	3.0	- 1.9	- 63
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0	0.1	- 0.1	0	0.1	- 0.1	- 100
7. Rawalpindi	0.1	0.4	- 0.3	0.1	0.4	+ 0.3	- 82
8. Sargodha	0	0.1	- 0.1	0	0.1	- 0.1	- 100
9. Multan	0	0	- 0	0	0	0	- 100
10. Bahawalpur	0	0	- 0	0	0	0	Normal
11. Peshawar	0	0.1	- 0.1	0	0.1	- 0.1	- 100
12. D. I. Khan	0	0.1	- 0.1	0	0.1	- 0.1	- 100
13. Quetta	0	0	- 0	0	0	0	- 100
14. Kalat	0	0	0	0	0	0	Normal
15. Karachi	0	0	0	0	0	0	Normal
16. Hyderabad	0	0	0	0	0	0	- 100
17. Khairpur	0	0	0	0	0	0	Normal
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01" Data not available.  
 † Rainfall of stations having no normals is not included.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 14th June, 1967.

—o:O:o—

### SUMMARY OF WEATHER

**EAST PAKISTAN:** Incursion of moist southerlies continued in the province causing local to fairly widespread rain or thundershowers in Chittagong, Khulna and Rajshahi divisions during the first two days of the week. The incursion of moist southerly was a forerunner to the advance of the monsoon to the province which set in on the 10th and caused widespread rain or thundershowers over Chittagong and Dacca divisions and local to widespread rain or thundershowers in Khulna and Rajshahi divisions during the rest 4 days of the week and scattered to local rain fell over the whole province on the last day of the week. Locally heavy to very heavy falls were reported from the northern districts of the province on the 9th and from all over the province on the last four days of the week.

Significant amounts of rainfall recorded were:- Dinajpur 5" and Rangpur 2" on the 9th; Sylhet 3", Comilla and Dinajpur 2" each on the 11th; Cox's Bazar 4", Srimangal 3" and Rangamati, Chittagong, Comilla, Brahmanbaria, Narayanganj, Dacca and Bogra 2" each on the 12th; Faridpur 5", Sylhet 4", Khulna 3" and Brahmanbaria 2" each on the 13th and Sylhet 2" on the 14th.

Day temperatures were slightly to appreciably above normal over the province on the 8th and 9th, in Dacca and Khulna divisions on the 11th and in Khulna division on the 14th. These were slightly to appreciably below normal over the province on the 10th, in Rajshahi division on the 12th and in Rajshahi and Chittagong divisions on the 13th and the 14th.

**WEST PAKISTAN:** The seasonal of low pressure extending from Kalat division to Sargodha division became marked in the middle of the week due to the passage of a western disturbance across the north of the province. Under its influence a few falls of light rain or thundershowers occurred in Lahore and Rawalpindi divisions on the 10th and in Peshawar division on the 11th. Towards the end of the week a feeble western disturbance moving across the north of the province caused a few thundershowers in Peshawar division on the 13th and scattered thundershowers in the same division on the 14th. The weather otherwise remained dry over the province.

Day temperatures were slightly to appreciably above normal over the whole province on the 9th, in the northern and central divisions on the 8th, 10th and the 14th and only in the northern divisions on the 11th and the 13th. These were slightly to appreciably below normal in the southern divisions on the 8th and the last five days of the week, and in central divisions on the 11th.

2. CHITTAGONG DIVISION :	Rainfall was widespread on four days and local on three days.
DACCA DIVISION :	Widespread rain fell on four days and scattered on one day.
KHULNA DIVISION :	Widespread rain fell on three days, fairly widespread and scattered on one day each.
RAJSHAHI DIVISION :	Fairly widespread rain fell on two days, local on four days and scattered on one day.
KASHMIR DIVISION :	Data not available.
LAHORE DIVISION :	} Weather remained mainly dry.
RAWALPINDI DIVISION :	
SARGODHA DIVISION :	
MULTAN DIVISION :	} Weather remained dry.
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	
D.I. KAHN DIVISION :	} Scattered rain fell on one day.
QUETTA DIVISION :	
KALAT DIVISION :	
KARACHI DIVISION :	
HYDERABAD DIVISION :	
KHAIRPUR DIVISION :	} Weather remained dry.
JUNAGADH	
	Data not available.

3. Based on the data of stations having normals, the week's rainfall was in large excess in Dacca division; in excess elsewhere in East-Pakistan and scanty in Lahore division, whereas no rain fell elsewhere in West Pakistan.

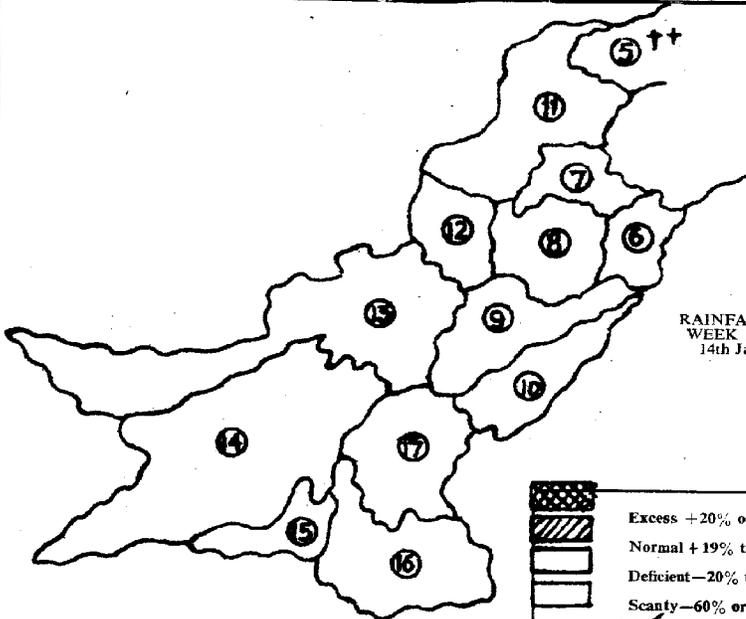
Rainfall for the period from 1st June 1967 to-date was normal in Chittagong, Dacca and Rajshahi divisions; deficient in Khulna division and scanty in Lahore and Rawalpindi divisions. No rain has fallen so far elsewhere in West Pakistan.

4. The table over leaf summarises the statistics for eighteen divisions of Pakistan, both for the week and for the period from 1st June, 1967 to -date.

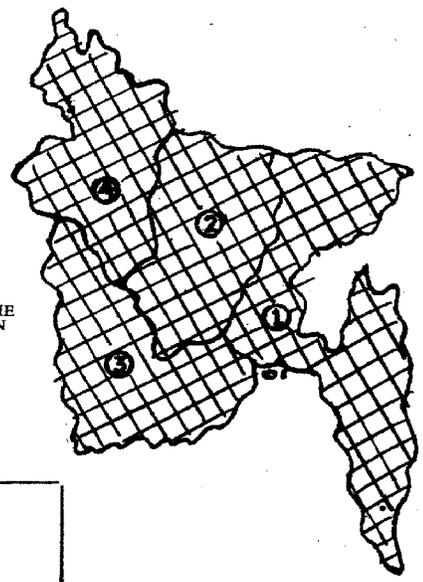
# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 14th June, 1967.			Rainfall for the Period from 1st June, 1967 to 14th June, 1967.			
	† Actual	Normal	*Excess or defect	*Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	5.6	4.3	+ 1.2	7.3	8.5	- 1.2	- 14
2. Dacca	5.7	3.5	+ 2.2	5.9	6.6	- 0.8	- 11
3. Khulna	3.7	2.5	+ 1.2	3.7	4.7	- 0.9	- 20
4. Rajshahi	4.8	3.0	+ 1.3	5.9	6.0	- 0.1	- 2
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0	0.2	- 0.1	0	0.2	- 0.2	- 83
7. Rawalpindi	0	0.5	- 0.5	0.1	0.9	- 0.8	- 91
8. Sargodha	0	0.2	- 0.2	0	0.3	- 0.3	- 100
9. Multan	0	0.1	- 0.2	0	0.2	- 0.2	- 100
10. Bahawalpur	0	0.2	- 0.1	0	0.1	- 0.1	- 100
11. Peshawar	0	0.1	- 0.2	0	0.3	- 0.3	- 100
12. D. I. Khan	0	0	- 0.1	0	0.2	- 0.2	- 100
13. Quetta	0	0	0	0	0.1	- 0.1	- 100
14. Kalat	0	0	0	0	0	0	- 100
15. Karachi	0	0	0	0	0	0	- 100
16. Hyderabad	0	0.1	- 0.1	0	0.1	- 0.1	- 100
17. Khairpur	0	0	0	0	0	0	- 100
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01\*  
 † Rainfall of stations having no normals is not included. Data not available.



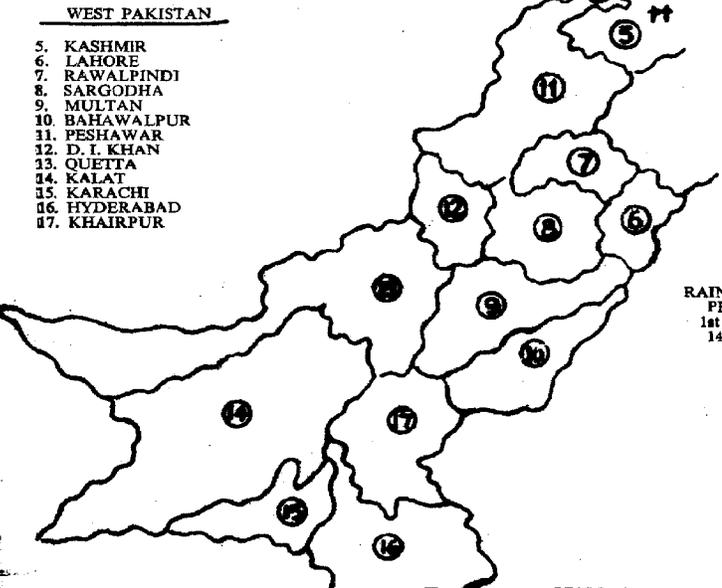
RAINFALL FOR THE WEEK ENDING ON 14th June, 1967.



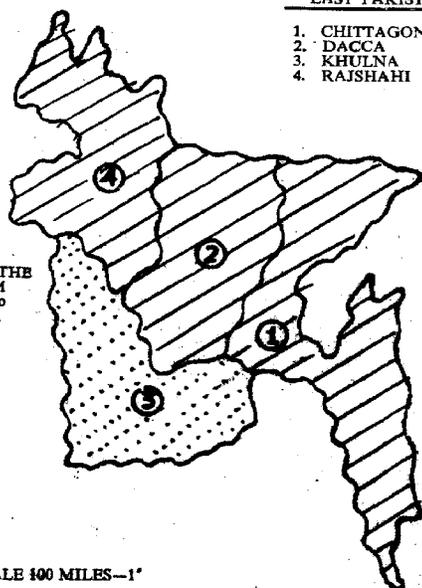
EAST PAKISTAN

- 1. CHITTAGONG
- 2. DACCA
- 3. KHULNA
- 4. RAJSHAHI

RAINFALL FOR THE PERIOD FROM 1st June, 1967 to 14th June, 1967.



SCALE 200 MILES—1"



SCALE 100 MILES—1"

## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 21st June, 1967.

—o:O:o—

## SUMMARY OF WEATHER

**EAST PAKISTAN:** Monsoon was active over the province on the 15th, 18th, 20th and 21st and gradually weak on the remaining days. Rainfall was fairly widespread to widespread and locally heavy over the province on the 15th and the 18th, in Dacca division on the 20th in Chittagong division and in Khulna division on the 20th and 21st. Scattered to local rainfall occurred elsewhere on the remaining days.

Significant amounts of rainfall recorded were: Sylhet 3" and Dacca, Faridpur and Bogra 2" each on the 15th; Sylhet 3" on the 16th; Cox's Bazar and Rangpur 3" each on the 17th; Sylhet 5", Cox's Bazar and Pabna 4" each and Chittagong and Majdee Court 3" each on the 18th; Majdee Court 3" on the 20th and Cox's Bazar and Sylhet 2" each on the 21st.

Day temperatures were slightly to appreciably above normal over the province on the 15th and 20th and only in Dacca and Khulna divisions between the 16th and the 18th. These were slightly to appreciably below normal in Rajshahi division on the 18th and in the whole province on the last day.

**WEST PAKISTAN:** Two western disturbances moved in quick succession across the northern parts of the province during the first four days of the week. Under their influence scattered to local thunderstorms or showers occurred in the northern divisions on the 15th in the northern and the central divisions and in Hyderabad division on the 16th and 17th and in Peshawar and D.I. Khan divisions on the 18th. A few thunderstorms also occurred in Rawalpindi, Sargodha and Multan divisions on the 18th. Thereafter a trough of low pressure developed over Saurashtra, Kutch and adjoining north Arabian Sea. In association with the seasonal trough lying over Quetta and Kalat divisions. It caused scattered thundershowers in Quetta and Hyderabad divisions on the 19th and 20th respectively and isolated thunderstorms in Peshawar division on the 21st.

Chief amounts of rainfall recorded were: Kakul, Murree, Drosh and Haripur 1" each.

Day temperatures were markedly to considerably below normal in the province outside the southern divisions on the 17th and in the northern divisions on the 18th and were slightly to appreciably so practically in the whole province on the 16th, 19th and the 20th, in the southern and some of the northern divisions on the 15th and only in the central divisions on the 18th. These were slightly above normal in Hyderabad division on the 18th, 19th and the 20th and in the southern and central divisions on the 21st.

2. CHITTAGONG DIVISION :	Widespread rain fell on one day and fairly widespread and local on three days each.
DACCA DIVISION :	Widespread and local rain fell on one day each, fairly widespread on two days and scattered on three days.
KHULNA DIVISION :	Widespread and fairly widespread rain fell on two days each and local on one day.
RAJSHAHI DIVISION :	Widespread, fairly widespread and scattered rain fell on one day each and local on two days.
KASHMIR :	Data not available.
LAHORE DIVISION :	Local rain fell on one day.
RAWALPINDI DIVISION :	Local rain fell on one day and scattered on two days.
SARGODHA DIVISION :	} Scattered rain fell on two days.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	Weather remained dry.
PESHAWAR DIVISION :	Rainfall was local on one day and scattered on three days.
D. I. KHAN DIVISION :	Scattered rain fell on three days.
QUETTA DIVISION :	Scattered rain fell on two days.
KALAT DIVISION :	} Weather remained dry.
KARACHI DIVISION :	
HYDERABAD DIVISION :	
KHAIRPUR DIVISION :	Scattered rain fell on two days.
KHAIRPUR DIVISION :	Weather remained mainly dry.
JUNAGADH	Data not available.

3. Based on data of the stations having normal, the week's rainfall was in large excess in Hyderabad divisions; normal in Chittagong, Dacca, Rajshahi, Rawalpindi, Multan and D.I. Khan divisions; deficient in Khulna, Sargodha and Peshawar divisions and scanty in Lahore and Quetta divisions whereas no rain fell elsewhere in West Pakistan.

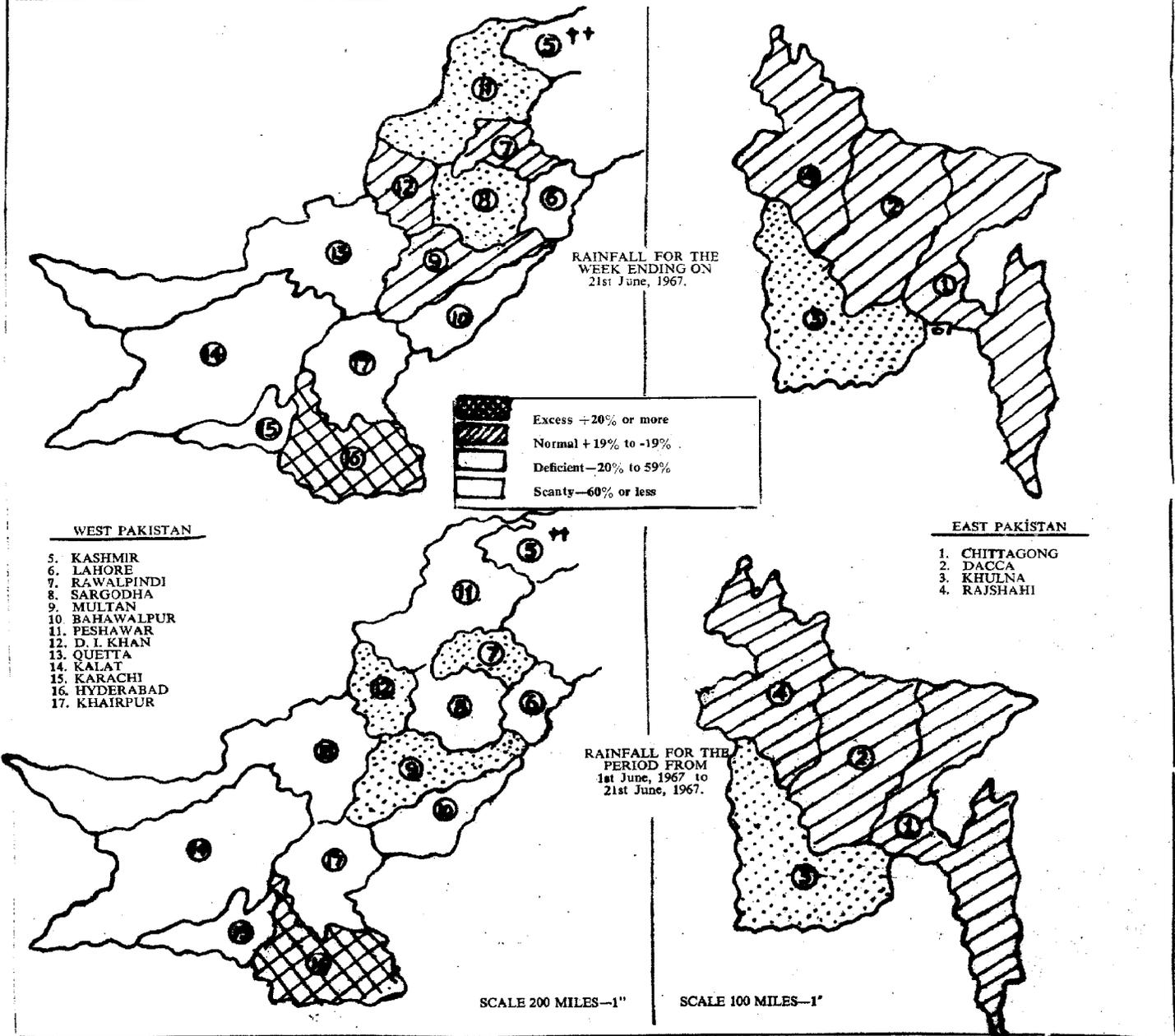
Rainfall for the period from 1st June 1967 to date was in excess in Hyderabad divisions; normal in Chittagong, Dacca, Rajshahi divisions; deficient in Khulna, Rawalpindi, Multan and D.I. Khan divisions and scanty in Lahore, Sargodha, Peshawar and Quetta divisions. No rain has so far fallen in Bahawalpur, Kalat, Karachi and Khairpur divisions.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June 1967 to-date.

# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 21st June, 1967.			Rainfall for the Period from 1st June, 1967 to 21st June, 1967.			
	† Actual	Normal	*Excess or defect	*Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	5.8	5.6	+ 0.1	13.1	14.1	- 1.0	- 7
2. Dacca	3.2	3.3	- 0.1	9.1	40.0	- 0.9	- 9
3. Khulna	2.6	3.7	- 1.1	6.1	8.3	- 2.2	- 26
4. Rajshahi	2.9	3.4	- 0.5	8.8	9.4	- 0.6	- 7
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0.2	0.6	- 0.4	0.2	0.9	- 0.7	- 76
7. Rawalpindi	0.6	0.7	- 0.1	0.7	1.6	- 0.9	- 58
8. Sargodha	0.2	0.3	- 0.2	0.2	0.6	- 0.4	- 73
9. Multan	0.4	0.3	0	0.4	0.5	- 0.2	- 31
10. Bahawalpur	0	0.1	- 0.1	0	0.2	- 0.2	- 100
11. Peshawar	0.1	0.1	0	0.1	0.4	- 0.3	- 80
12. D. I. Khan	0.1	0.2	0	0.1	0.3	- 0.2	- 58
13. Quetta	0	0.1	- 0.1	0	0.2	- 0.1	- 87
14. Kalat	0	0.1	- 0.1	0	0.1	- 0.1	- 100
15. Karachi	0	0.1	- 0.1	0	0.1	- 0.1	- 100
16. Hyderabad	0.2	0	+ 0.1	0.2	0.1	0	+ 23
17. Khairpur	0	0.1	- 0.1	0	0.1	- 0.1	- 100
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. Data not available.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 28th June, 1967.

—:o:o:—

### SUMMARY OF WEATHER

**EAST PAKISTAN:** A depression centred near Latitude  $19\frac{1}{2}^{\circ}$  N and Longitude  $87^{\circ}$  E formed over the northwest Bay of Bengal on the 23rd. It moved north east wards, crossed coast, weakened into a low pressure area over Orissa and neighbourhood by the 24th and subsequently merged with the seasonal trough extending from south Uttar Pradesh to northwest Bay of Bengal. A well marked low pressure area developed over the northwest Bay of Bengal on the last day of the week. Rain or thundershowers were fairly widespread in Chittagong division on the 22nd and widespread in Khulna division on the 23rd. Scattered to local thunderstorm or showers occurred elsewhere over the province during the week.

Chief amounts of rainfall recorded during the week were: Maijdee Court  $1\frac{1}{2}''$  and Rangamati and Cox's Bazar  $3/4''$  each on the 22nd; Sylhet and Khulna  $3/4''$  each on the 23rd; Satkhira  $3/4''$  on the 24th; Faridpur and Rangamati  $3/4''$  on the 27th.

Day temperatures were slightly to appreciably above normal practically over the whole province during the week.

**WEST PAKISTAN:** The southwards shift of the axis of monsoon trough in association with the formation of low pressure area over northwest Bay of Bengal produced condition favourable for penetration of moist easterlies into the northeastern divisions of West-Pakistan towards the end of the week. Simultaneously, a western disturbance moved across Russian Turkistan north of Kashmir. These caused local thunderstorms/showers in Rawalpindi division and scattered in Peshawar division on the 28th. Haripur recorded  $1''$  and Kakul  $1/4''$  of rain. Weather was otherwise dry over the province.

Day temperatures were appreciably to markedly above normal in the northern and central divisions and slightly above normal in the southern divisions on the 26th and the 27th. These were slightly to appreciably above normal in the northern and central divisions on the 22nd and practically over the whole province during the rest of the week.

2. CHITTAGONG DIVISION :	Fairly widespread rain fell on one day, local on two days and scattered on four days.
DACCA DIVISION :	Local rain fell on one day and scattered on five days.
KHULNA DIVISION :	Widespread and local rain fell on one day each and scattered on five days.
RAJSHAHI DIVISION :	Rainfall was scattered on three days.
KASHMIR DIVISION :	Data not available.
LAHORE DIVISION :	Weather remained dry.
RAWALPINDI DIVISION :	Local rain fell on one day.
SARGODHA DIVISION :	Weather remained dry.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Local rain fell on one day.
D.I. KAHN DIVISION :	Weather remained dry.
QUETTA DIVISION :	
KALAT DIVISION :	
KARACHI DIVISION :	
HYDERABAD DIVISION :	
KHAIRPUR DIVISION :	Data not available.
JUNAGADH	

3. Based on the data of stations having normals, the week's rainfall was in deficient in Dacca division and scanty elsewhere in East-Pakistan and in Rawalpindi division. No rain fell elsewhere in West Pakistan.

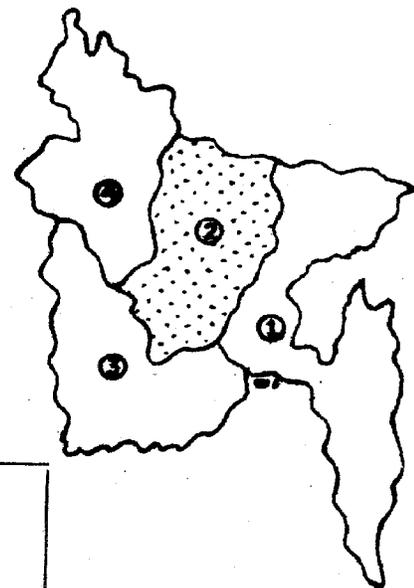
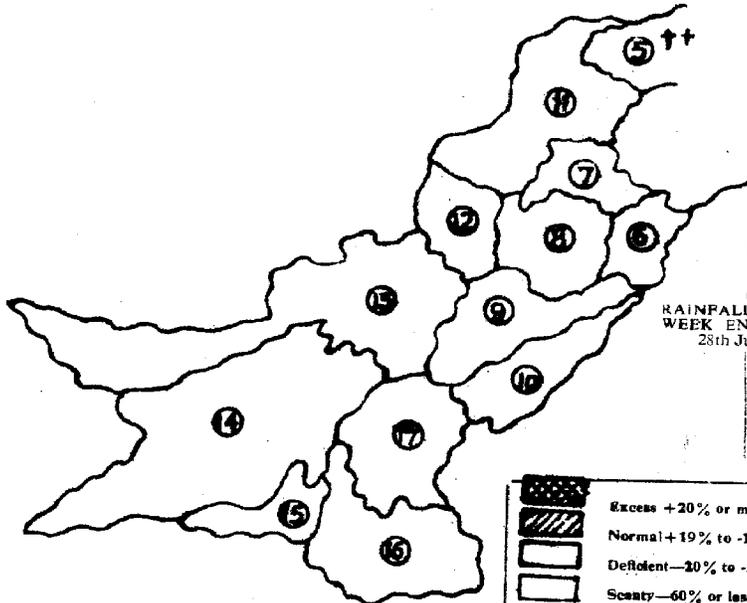
Rainfall for the period from 1st June 1967 to-date was in deficient in East Pakistan and in Multan divisions; scanty in Lahore, Rawalpindi, Sargodha, Peshawar, D. I. Khan, Quetta and Hyderabad divisions. Whereas no rain has so far fallen in Bahawalpur, Kalat, Karachi and Khairpur divisions.

4. The table over leaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June, 1967 to-date.

# WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending the 28th June, 1967.			Rainfall for the Period from 1st June, 1967, to 28th June, 1967.			
	† Actual	Normal	* Excess or defect	† Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	0.9	5.3	- 4.4	14.0	19.4	- 5.4	- 28
2. Dacca	0.9	3.8	- 3.0	9.9	13.8	- 3.8	- 28
3. Khulna	1.1	6.5	- 5.3	7.2	14.8	- 7.5	- 51
4. Rajshahi	0	3.8	- 3.7	8.8	13.2	- 4.4	- 33
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0	0.9	- 0.9	0.2	1.7	- 1.5	- 89
7. Rawalpindi	0.1	1.2	- 1.1	0.7	2.8	- 2.0	- 73
8. Sargodha	0	0.5	- 0.5	0.2	1.1	- 0.9	- 86
9. Multan	0	0.2	- 0.2	0.4	0.7	- 0.3	- 48
10. Bahawalpur	0	0.1	- 0.1	0	0.2	- 0.2	- 100
11. Peshawar	0	0.2	- 0.2	0.1	0.7	- 0.6	- 86
12. D. I. Khan	0	0.4	- 0.4	0.1	0.7	- 0.6	- 80
13. Quetta	0	0.1	- 0.1	0	0.3	- 0.2	- 92
14. Kalat	0	0.1	- 0.1	0	0.2	- 0.2	- 100
15. Karachi	0	0.3	- 0.3	0	0.4	- 0.4	- 100
16. Hyderabad	0	0.3	- 0.3	0.2	0.5	- 0.3	- 67
17. Khairpur	0	0.1	- 0.1	0	0.2	- 0.2	- 100
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01.  
 † Rainfall of stations having no normals is not included. †† Data not available.



**WEST PAKISTAN**

- 5. KASHMIR
- 6. LAHORE
- 7. RAWALPINDI
- 8. SARGODHA
- 9. MULTAN
- 10. BAHAWALPUR
- 11. PESHAWAR
- 12. D. I. KHAN
- 13. QUETTA
- 14. KALAT
- 15. KARACHI
- 16. HYDERABAD
- 17. KHAIRPUR

**EAST PAKISTAN**

- 1. CHITTAGONG
- 2. DACCA
- 3. KHULNA
- 4. RAJSHAHI

RAINFALL FOR THE PERIOD FROM 1st June, 1967 TO 28th June, 1967.

SCALE 200 MILES=1"

SCALE 100 MILES=1"

## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 5th July, 1967.

---o:O:o---

## SUMMARY OF WEATHER

**EAST PAKISTAN:** Last week's easterly low pressure area over northwest Bay of Bengal moved inland on the 30th and slowly passed away westnorthwest-wards. Monsoon remained fairly active over the Province throughout the week except on the 2nd. Fairly widespread to widespread rain occurred in Khulna division on the 29th, 1st, 3rd and the 4th, in Dacca division on the 30th, 1st, 3rd and the 5th, in Chittagong division on the 3rd and the 5th and in Rajshahi division on the 4th and the 5th. Scattered to local thundershowers occurred elsewhere over the Province during the week.

Significant amounts of rainfall recorded during the week were: Sylhet 4" and Rangamati 2" on the 29th; Bogra and Maijdee Court 2" each on the 1st; Cox's Bazar 2" on the 3rd and Rajshahi 3" on the 5th.

Day temperatures were slightly to appreciably above normal over the Province during the first six days of the week.

**WEST PAKISTAN:** A feeble western disturbance moved across the north of the Province during the first four days of the week. Meanwhile last week's low pressure area over the northwest Bay of Bengal slowly moved over to the Punjab (India) by the end of the week and caused penetration of moist easterlies into the northeastern divisions of the Province during the last three days. Simultaneously a trough of low pressure lying over Sourashtra and adjoining northwest Arabian Sea gradually developed into a well marked low during the week. In their association scattered to local thundershowers or showers occurred in Rawalpindi and Peshawar divisions between the 29th and the 1st in Karachi and Hyderabad divisions on the 30th and in D.I. Khan division on the 1st. Practically over the whole Province on the 2nd, 4th and the 5th and in Bahawalpur, Peshawar, D.I. Khan, Karachi and Khairpur divisions on the 3rd. The thundershowers that occurred over Karachi on the 3rd were associated with a squall reaching 48 m.p.h. According to newspaper reports the rain squall caused death of a few people and considerable damage to the refugee dwellings.

Significant amounts of rainfall recorded were:- Karachi (Manora) 1" on the 30th; Kakul 1" on the 1st; Sahiwal and Harnai 1½" each on the 2nd, Parachinar 2", Nagarparkar 1½" on the 3rd; Karachi Airport 2" and Manora 1" on the 4th; Fort Abbas 4" and Lahore 1½" on the 5th.

Day temperatures were slightly to appreciably above normal in the southern divisions on the 29th, 30th and the 2nd in the whole province on the 1st and only in Karachi division on the 3rd and the 4th. These were markedly to considerably below normal in Lahore, Sargodha, Multan and Bahawalpur divisions and slightly to appreciably below normal elsewhere in the Province on the 5th, only in the northern divisions on the 29th and in Peshawar, D.I. Khan and Sargodha divisions on the 2nd and the 3rd.

2. CHITTAGONG DIVISION :	Widespread and fairly widespread rain fell on one day each, local on four days and scattered on one day.
DACC A DIVISION :	Widespread rain fell on three days, fairly widespread and scattered on one day each and local on two days.
KHULNA DIVISION :	Widespread, fairly widespread and local rain fell on two days each and scattered on one day.
RAJSHAHI DIVISION :	Fairly widespread rain fell on two days, local on three days and scattered on one day.
KASHMIR :	Data not available.
LAHORE DIVISION :	Widespread rain fell on one day and local on two days.
RAWALPINDI DIVISION :	Local rain fell on three days and scattered on one day.
SARGODHA DIVISION :	Local rain fell on one day.
MULTAN DIVISION :	Local and scattered rain fell on one day each.
BAHAWALPUR DIVISION :	Local rain fell one day and scattered on two days.
PESHAWAR DIVISION :	Local rain fell on two days and scattered on five days.
D. I. KHAN DIVISION :	Local rain fell on one day and scattered on three days.
QUETTA DIVISION :	Scattered rain fell on three days.
KALAT DIVISION :	Weather remained mainly dry.
KARACHI DIVISION :	Local rain fell on three days and scattered on one day.
HYDERABAD DIVISION :	Fairly widespread and scattered rain fell on one day each and local on two days.
KHAIRPUR DIVISION :	Local rain fell on one day and scattered on two days.
JUNAGADH :	Data not available.

3. Based on the data of stations having normals the week's rainfall was in large excess in Peshawar, D.I. Khan, Multan, Quetta and Karachi divisions; normal in Lahore, Hyderabad and Rawalpindi divisions; deficient in Chittagong, Dacca and Khulna divisions; scanty in Rajshahi, Sargodha and Bahawalpur divisions whereas no rain has so far fallen in Kalat and Khairpur divisions.

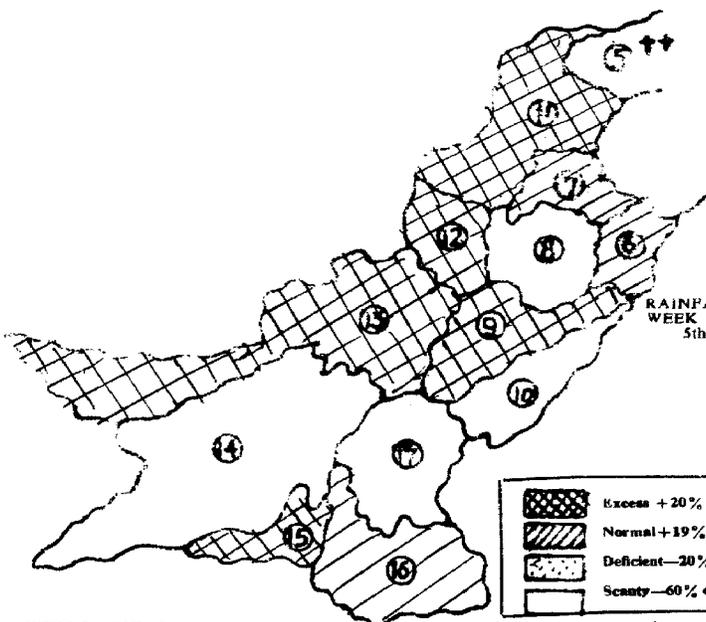
Rainfall for the period from the 1st June 1967 to-date was in large excess in Karachi division excess in Peshawar division, normal in Multan and Quetta divisions; deficient in East Pakistan and in Lahore, Rawalpindi, D.I. Khan and Hyderabad divisions and scanty in Sargodha and Bahawalpur divisions. No rain has so far fallen in Kalat and Khairpur divisions.

4. The table over leaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June 1967 to-date.

# WEEKLY WEATHER REPORT

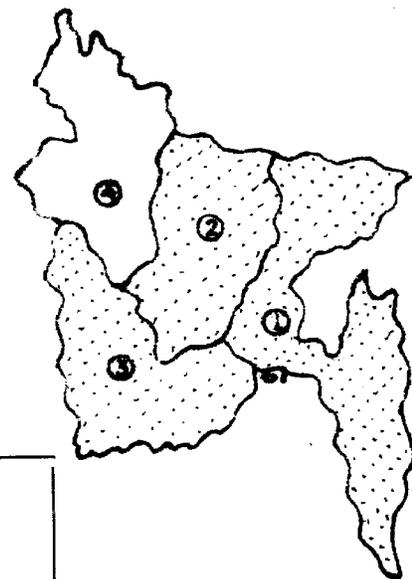
DIVISION	Rainfall for week ending the 5th July, 1967.			Rainfall for the Period from 1st June, 1967 to 5th July, 1967.			
	* Actual	Normal	* Excess or defect	* Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	2.0	4.5	- 2.5	16.1	2.39	- 7.9	- 33
2. Dacca	2.1	3.1	- 1.0	12.0	16.9	- 4.9	- 27
3. Khulna	2.1	3.3	- 1.3	9.3	18.1	- 8.8	- 49
4. Rajshahi	1.3	3.7	- 3.4	10.0	16.9	- 6.8	- 40
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	1.4	1.3	+ 0.1	1.6	3.0	- 1.4	- 48
7. Rawalpindi	1.5	1.6	- 0.1	2.2	4.4	- 2.2	- 49
8. Sargodha	0.1	0.6	- 0.5	0.2	1.7	- 1.5	- 87
9. Multan	0.8	0.5	+ 0.3	1.1	1.1	0	- 2
10. Bahawalpur	0.1	0.4	- 0.2	0.1	0.6	- 0.5	- 77
11. Peshawar	1.0	0.2	+ 0.8	1.1	0.9	+ 0.3	+ 28
12. D. I. Khan	0.5	0.3	+ 0.2	0.6	1.0	- 0.4	- 39
13. Quetta	0.4	0.1	+ 0.2	0.4	0.4	0	- 3
14. Kalat	0	0.1	- 0.1	0	0.3	- 0.3	- 100
15. Karachi	1.2	0.1	+ 1.1	1.2	0.5	+ 0.7	+ 142
16. Hyderabad	0.7	0.8	- 0.1	0.8	1.3	- 0.5	- 36
17. Khairpur	0	0.2	- 0.2	0	0.2	- 0.2	- 100
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. ††Data not available.



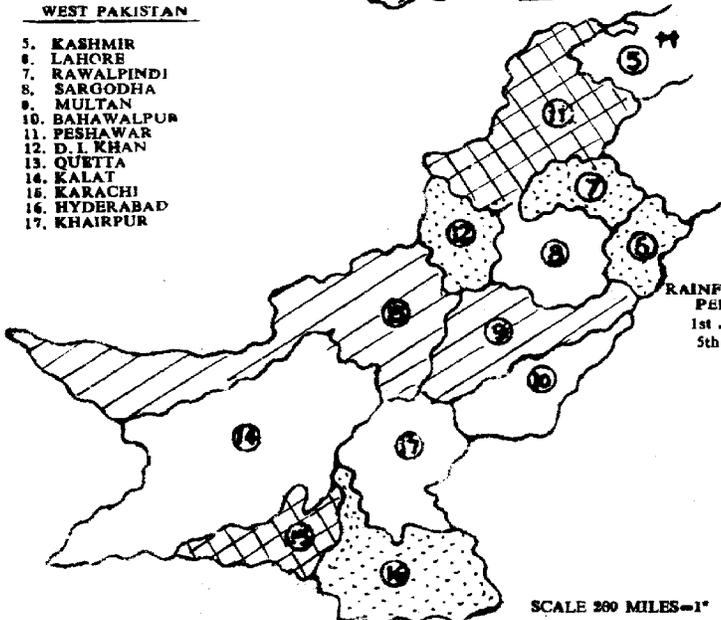
WEST PAKISTAN

- 5. KASHMIR
- 6. LAHORE
- 7. RAWALPINDI
- 8. SARGODHA
- 9. MULTAN
- 10. BAHAWALPUR
- 11. PESHAWAR
- 12. D. I. KHAN
- 13. QUETTA
- 14. KALAT
- 15. KARACHI
- 16. HYDERABAD
- 17. KHAIRPUR

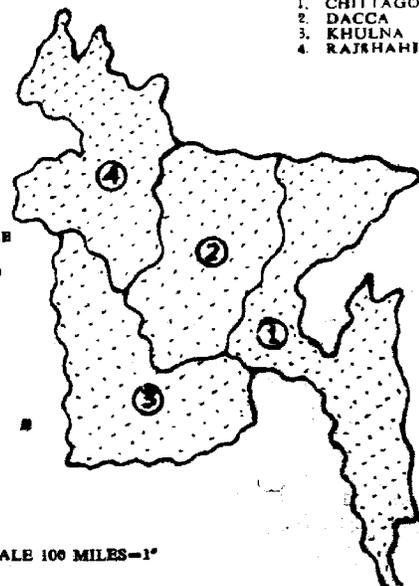


EAST PAKISTAN

- 1. CHITTAGONG
- 2. DACCA
- 3. KHULNA
- 4. RAJSHAHI



SCALE 200 MILES=1"



SCALE 100 MILES=1"

## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 12th July, 1967.

—o:O:o—

### SUMMARY OF WEATHER

**EAST PAKISTAN:** Moonsoon was moderate and caused local to fairly widespread rain or thundershowers in the province on the first day of the week. It became vigorous and caused generally widespread rain or thundershowers with locally heavy rain in the province between the 7th and 11th. As much as 10" of rain was recorded at Chittagong on the 8th and 9" on the 8th and 8" at Cox's Bazar on the 9th and 6" on the 10th.

There after with the southward shifting of axis of monsoon trough to the head Bay of Bengal the monsoon activity decreased in the northern parts of the province. As a consequence rain or thundershowers occurred were scattered to local in the province on the 12th except in Khulna division where these were fairly widespread.

Other significant amounts of rain fall recorded during the week were: Rangamati 3" on the 6th, Brahmanbaria 6", Rangamati 4", Sirajganj 4" on the 7th; Sylhet and Bogra 6" each and Cox's Bazar, Maijdee Court 4" each on the 8th; Maijdee Court 4", Chittagong and Dinajpur 3" each, Sirajganj 4", Mymensingh and Pabna 3" each on the 10th; Cox's Bazar and Narayanganj 4" each on the 11th and Cox's Bazar 4" on the 12th.

Day temperatures were slightly to appreciably below normal over the whole province on the 8th and the 11th, in Chittagong on the 9th and in Chittagong and Rajshahi divisions on the 10th. These were to the same extent above normal in Dacca and Khulna divisions on the 7th and the 9th and in these and in Chittagong division on the 12th.

**WEST PAKISTAN:** Last week's easterly low pressure area over Indian Panjab filled up after moving to Lahore division neighbourhood. It caused fairly widespread rain or thundershowers in Lahore division, scattered in Multan division and light rain or thundershowers in Sargodha, Peshawar and Bahawalpur divisions on the 6th, and only in Lahore division on the 7th. The marked low pressure area lying over Surashtra and neighbourhood at the end of previous week also filled while the seasonal trough of low pressure over the western divisions of the province became well marked. Under its influence scattered to local rain or thundershowers occurred in Lahore and Rawalpindi divisions on the 10th and the 11th and in Peshawar division on the 10th and the 12th and a few of light rain or thundershowers in Hyderabad division on the 9th, in Bahawalpur division on the 10th and 11th in Lahore and Rawalpindi divisions on the 12th.

Significant amounts of rainfall were: Sahiwal  $\frac{3}{4}$ " on the 6th and Sialkot  $1\frac{1}{2}$ " on the 11th.

Day temperatures were moderately to considerably below normal in Lahore, Sargodha and Multan divisions and slightly to appreciably to elsewhere in the northern and central divisions on the 6th and the 7th and only in Lahore division on the 8th and the 11th. These were slightly to appreciably above normal in the southern divisions on the 6th and the 7th, practically in the whole province on the 8th and the 10th and in the western divisions on the 11th and on the 12th.

<b>1. CHITTAGONG DIVISION :</b>	Widespread rain fell on five days and local on two days.
<b>DACCA DIVISION :</b>	Rainfall was widespread and local on two days each, fairly widespread on one day and scattered on two days.
<b>KHULNA DIVISION :</b>	Widespread rain fell on three days fairly widespread on two days and scattered on one day.
<b>RAJSHAHI DIVISION :</b>	Widespread rain fell on four days and local on two days.
<b>KASHMIR DIVISION :</b>	Data not available.
<b>LAHORE DIVISION :</b>	Fairly widespread, local and scattered rain fell on one day each.
<b>RAWALPINDI DIVISION :</b>	Scattered rain fell on two days.
<b>SARGODHA DIVISION :</b>	Weather remained mainly dry.
<b>MULTAN DIVISION :</b>	Scattered rain fell on one day.
<b>BAHAWALPUR DIVISION :</b>	Weather remained dry.
<b>PESHAWAR DIVISION :</b>	Scattered rain fell on two days.
<b>D.I. KAHN DIVISION :</b>	} Weather remained mainly dry.
<b>QUETTA DIVISION :</b>	
<b>KALAT DIVISION :</b>	
<b>KARACHI DIVISION :</b>	
<b>HYDERABAD DIVISION :</b>	
<b>KHAIRPUR DIVISION :</b>	} Weather remained dry.
<b>JUNAGADH</b>	Data not available.

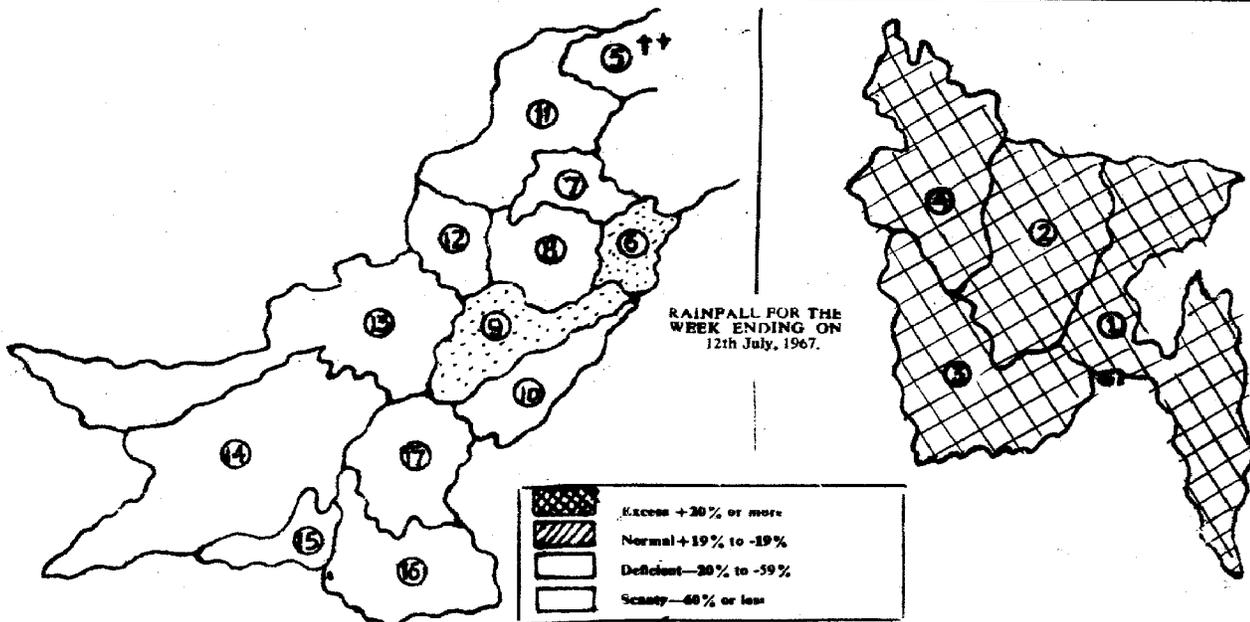
3. Base on data of stations having normals, the week's rainfalls was in large excess in East Pakistan; deficient in Lahore and divisions; scanty in Rawalpindi and Sargodha divisions; whereas no rain fell elsewhere in West Pakistan.
- Rainfall for the period from 1st June 1967 to-date was in excess in Karachi division normal in Chittagong, Dacca and Multan divisions; deficient in Khulna, Lahore, Rawalpindi Peshawar, Quetta and Hyderabad divisions and scanty in Sargodha, Bahawalpur and D. I. Khan divisions. No rain has so far fallen in Kalat and Khairpur divisions.
4. The table over leaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June, 1967 to -date.

N. A. QURESHI

# WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending the 12th July, 1967.			Rainfall for the Period from 1st June, 1967 to 12th July, 1967.			
	Actual	Normal	*Excess or defect	†Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	15.3	4.5	+10.7	31.3	28.5	+ 2.8	+ 10
2. Dacca	7.1	3.2	+ 3.8	19.1	20.1	- 1.0	- 5
3. Khulna	5.2	3.1	+ 2.1	14.5	21.2	- 6.8	- 31
4. Rajshahi	8.6	3.6	+ 5.0	18.7	20.5	- 1.7	- 8
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0.8	1.7	- 0.9	2.4	4.7	- 2.3	- 50
7. Rawalpindi	0.9	2.2	- 1.3	3.1	6.5	- 3.5	- 53
8. Sargodha	0	0.8	- 0.8	0.3	2.6	- 2.4	- 92
9. Multan	0.4	0.6	- 0.2	1.5	1.7	- 0.2	- 12
10. Bahawalpur	0	0.5	- 0.5	0.1	1.1	- 1.0	- 87
11. Peshawar	0	0.6	- 0.6	1.1	1.5	- 0.4	- 25
12. D. I. Khan	0	0.5	- 0.5	0.6	1.5	- 0.9	- 60
13. Quetta	0	0.2	- 0.2	0.4	0.6	- 0.2	- 34
14. Kalat	0	0.1	- 0.1	0	0.5	- 0.5	- 100
15. Karachi	0	0.4	- 0.4	1.9	0.8	+ 0.3	+ 33
16. Hyderabad	0	0.5	- 0.5	0.8	1.8	- 1.0	- 55
17. Khairpur	0	0.2	- 0.2	0	0.5	- 0.5	- 100
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to e.e.†  
 † Rainfall of stations having no normals is not included. ††Data not available.

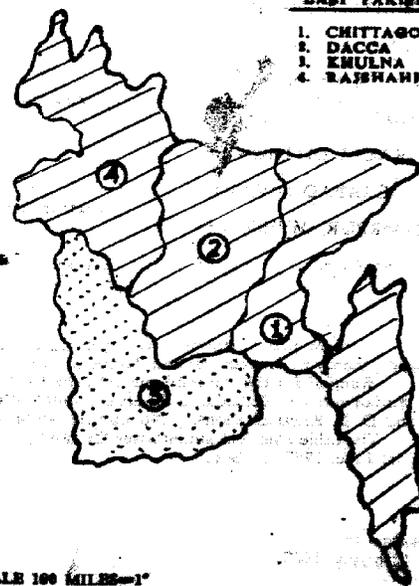
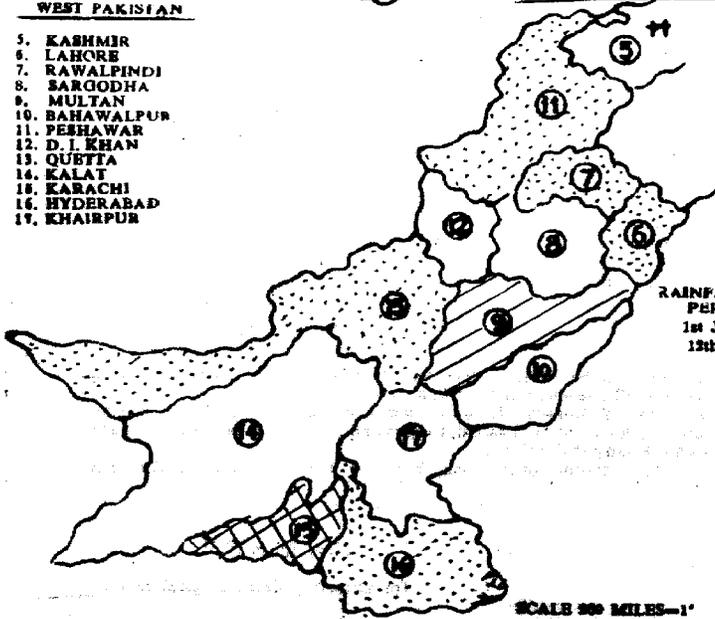


**WEST PAKISTAN**

- 5. KASHMIR
- 6. LAHORE
- 7. RAWALPINDI
- 8. SARGODHA
- 9. MULTAN
- 10. BAHAWALPUR
- 11. PESHAWAR
- 12. D. I. KHAN
- 13. QUETTA
- 14. KALAT
- 15. KARACHI
- 16. HYDERABAD
- 17. KHAIRPUR

**EAST PAKISTAN**

- 1. CHITTAGONG
- 2. DACCA
- 3. KHULNA
- 4. RAJSHAHI



SCALE 200 MILES=1"

SCALE 100 MILES=1"

## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 19th July, 1967.

---o:O:o---

## SUMMARY OF WEATHER

**EAST PAKISTAN:** Monsoon was generally weak and caused scattered to local rain or thundershowers over the province on the 13th and 14th. Thereafter with the northwards shifting of the axis of monsoon through the monsoon became active and caused widespread rain or thundershowers over the province outside Chittagong division on the 16th, in Rajshahi division on the 17th, in Dacca division on the 18th and in Chittagong division on the 19th. Local to fairly widespread rain or thundershowers occurred elsewhere over the Province from 15th upto the end of the week. Locally heavy to very heavy rain fell in Chittagong division on the 15th and the 16th.

Significant amounts of rain fall recorded were:- Rangpur 2" on the 13th; Mymensingh 3" on the 14th; Cox's Bazar 4" and Mujib-dee Court 3" on the 15th; Chittagong 3" on the 16th; Rajshahi 2" on the 17th; Rangpur 3" on the 18th and Comilla 2" on the 19th.

Day temperatures were slightly to appreciably above normal over the province on the first three days of the week. These were to the same extent below normal over the province on the 16th and in Rajshahi and Khulna divisions on the 17th and the 18th.

**WEST PAKISTAN:** Two feeble western disturbances moving across the north of the province accentuated the seasonal trough of low pressure and caused scattered to local thunderstorms or showers in Rawalpindi and Peshawar divisions between the 13th and 16th, in Quetta division on the 13th and 15th, in Lahore division on the 13th and Peshawar division on the 17th. A few falls of light rain also occurred in Multan and D. I. Khan divisions on 14th and 15th. Thereafter with the approach of an easterly low pressure area to south-west Madhya Pradesh and neighbourhood on the 19th, an axis of monsoon trough shifted southward and deflected moist easterlies started penetrating into the province and caused fairly widespread rain or thundershowers in Lahore division and scattered to local thundershowers in Peshawar and Quetta divisions on the 19th and in Rawalpindi and D. I. Khan divisions a day earlier. A few thunderstorms also occurred in some of the northern divisions between the 18th and the 19th and light rain or drizzle in Karachi division between the 15th and 19th.

Chief amounts of rainfall recorded were:- Kakul 1½" and Rawalpindi 1" on the 13th; Murree 1½" and Jhelum and Kakul 3¼" each on the 16th and D. I. Khan 1½" on the 18th.

Day temperatures were slightly to appreciably above normal practically over the whole province on the 13th and 14th and in the northern and central division on the 15th and the 16th. These were slightly to appreciably below normal in Khairpur division on the 15th and 16th and the 17th and in this and in Rawalpindi and Bahawalpur divisions on the 18th and in D. I. Khan, Quetta and Khairpur divisions on the 19th.

2. CHITTAGONG DIVISION :	Fairly widespread rain fell on three days and local four days.
DACCA DIVISION :	Widespread and local rain fell on two days each and scattered on one day.
KHULNA DIVISION :	Widespread and local rain fell on one day each and, fairly widespread on three days.
RAJSHAHI DIVISION :	Widespread and local rain fell on two days each and scattered on two days.
KASHMIR :	Data not available.
LAHORE DIVISION :	Fairly widespread and local rain fell on one day each.
RAWALPINDI DIVISION :	Local rain fell on three days.
SARGODHA DIVISION :	Weather remained mainly dry.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Scattered rain fell on five days.
D. I. KHAN DIVISION :	scattered rain fell on one day.
QUETTA DIVISION :	Scattered rain fell on three days.
KALAT DIVISION :	Weather remained dry.
KARACHI DIVISION :	Weather remained mainly dry.
HYDERABAD DIVISION :	Weather remained dry.
KHAIRPUR DIVISION :	
JUNAGADH :	Data not available.

3. Based on the data of stations having normals, the week's rainfall was in large excess in D. I. Khan Division excess in Rajshahi division; normal in Chittagong, Dacca and Rawalpindi divisions, deficient in Khulna and Quetta divisions and scanty in Lahore, Multan and Peshawar divisions whereas no rain fell in West Pakistan.

Rainfall for the period from 1st June 1967 to date was normal in Chittagong, Dacca and Rajshahi divisions; deficient in Khulna, Rawalpindi, Multan, Peshawar, D. I. Khan and Quetta divisions and scanty in Lahore, Sargodha, Bahawalpur and Hyderabad divisions. No rain has so far fallen in Kalat and Khairpur divisions.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June 1967 to date.

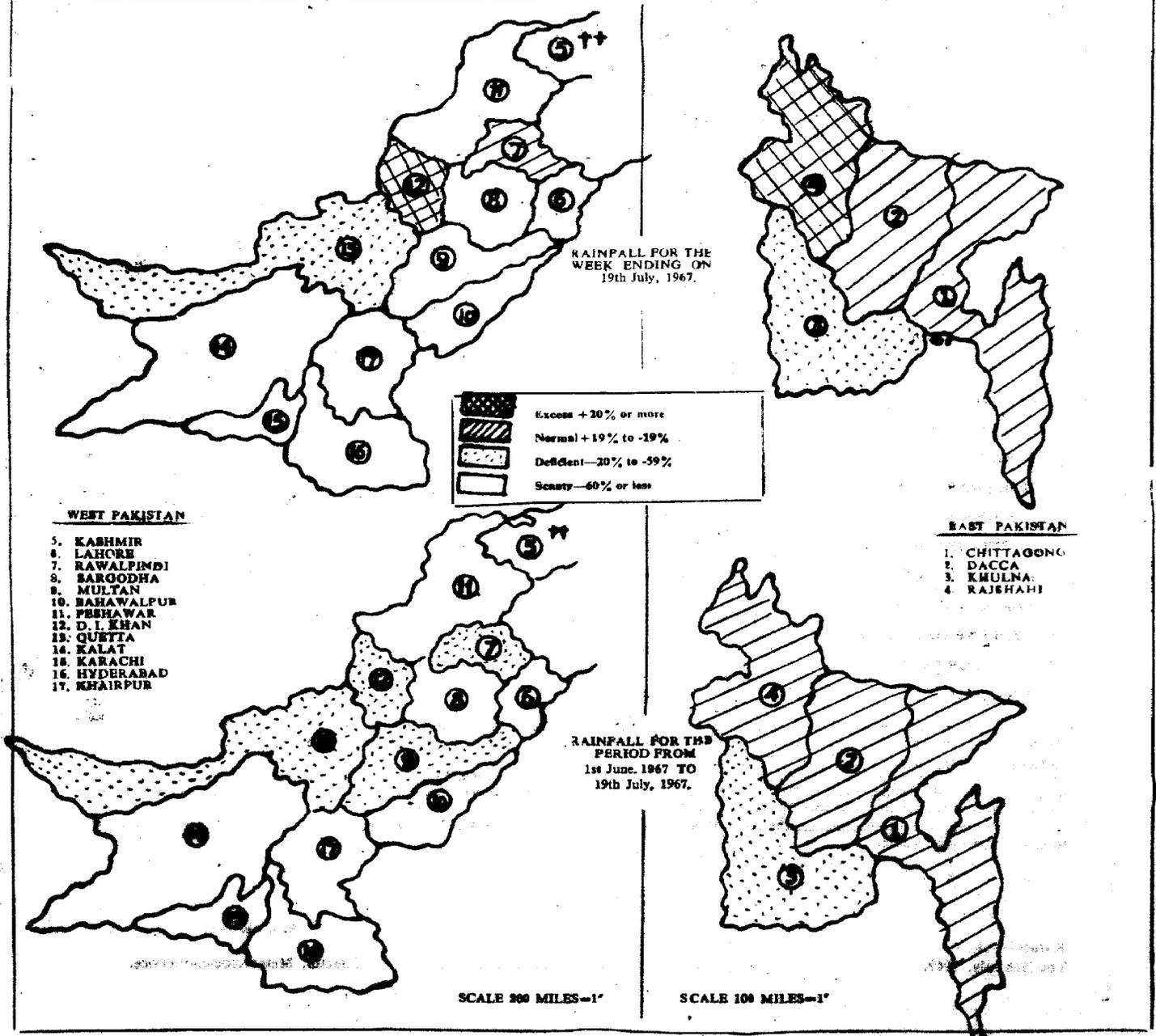
N. A. QURESHI

Director, Meteorological Service.

# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 19th July, 1967.			Rainfall for the Period from 1st June, 1967 to 19th July, 1967.			
	† Actual	Normal	* Excess or defect	† Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	4.1	3.9	+ 0.2	35.4	32.4	+ 3.0	+ 9
2. Dacca	2.6	2.9	- 0.3	21.7	23.0	- 1.3	- 6
3. Khulna	1.7	3.1	- 1.4	16.2	24.3	- 8.0	- 33
4. Rajshahi	3.8	2.6	+ 1.2	22.5	23.1	- 0.6	- 3
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0.1	1.5	- 1.4	2.5	6.2	- 3.7	- 60
7. Rawalpindi	1.9	2.3	- 0.4	5.0	9.9	- 4.9	- 49
8. Sargodha	0	0.7	- 0.7	0.3	1.3	- 1.0	- 79
9. Multan	0.1	0.4	- 0.3	1.6	2.1	- 0.5	- 24
10. Bahawalpur	0	0.3	- 0.3	0.1	1.5	- 1.3	- 91
11. Peshawar	0.1	1.0	- 0.9	1.2	2.5	- 1.3	- 52
12. D. I. Khan	0.8	0.3	+ 0.5	0.4	1.8	- 0.4	- 22
13. Quetta	0.2	0.3	- 0.1	0.6	0.9	- 0.3	- 33
14. Kalat	0	0.1	- 0.1	0	0.6	- 0.6	- 100
15. Karachi	0	0.1	- 0.1	0	0.6	- 0.6	- 100
16. Hyderabad	0	0.6	- 0.6	0.8	2.5	- 1.6	- 66
17. Khairpur	0	0.3	- 0.3	0	0.8	- 0.8	- 100
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. †† Data not available.



# WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 26th July, 1967.

---o:O:o---

## SUMMARY OF WEATHER

**EAST PAKISTAN:** An easterly low pressure area moved across the north Bay of Bengal in the beginning of the week. Another easterly low pressure area on entering into the north Bay of Bengal towards the end of the week concentrated into a depression and was centred on morning the last day near Latitude  $20\frac{1}{2}^{\circ}$  N and Longitude  $88^{\circ}$  E. In their association monsoon in however remained weak and caused scattered to local rain or thundershowers in the Province on the 20th and between the 24th and the 26th, in Chittagong division from the 21st to 23rd, in Dacca division on the 21st, in Khulna division on the 22nd and in Rajshahi division on the 23rd.

Chief amounts of rainfall recorded during the week were:- Pabna  $2''$  on the 20th; Sylhet and Srimangal  $\frac{1}{4}''$  each on the 22nd; Sylhet and Rangpur  $1\frac{1}{2}''$  each on the 23rd; Cox's Bazar  $4''$  on the 24th and Rangamati and Sirajganj  $1\frac{1}{2}''$  on the 25th.

Day temperatures were slightly to appreciably above normal in Dacca and Khulna divisions on the 22nd and practically in the whole Province on the 23rd, 24th and the 26th.

**WEST PAKISTAN:** Last week's easterly low pressure area over south west Madhya Pradesh moved away westwards across Surashtra and the northern sector of the North Arabian Sea by the 22nd. In its association deflected easterly monsoon penetrated into the Province and caused fairly widespread rain or thundershowers in Lahore and Hyderabad divisions and scattered to local in most of the remaining divisions on the 20th, in Peshawar division and in the southern divisions on the 21st and only in Kalat and Karachi divisions on the 22nd. A few falls of light rain or thundershowers also occurred in the central divisions between the 21st and the 22nd.

A fresh easterly low pressure area approached West Rajasthan on the 24th and with the strengthening of the Arabian Sea branch of the monsoon, concentrated into a depression and was centred on the morning of the last day of the week about 20 miles south of Karachi. Under its influence fairly widespread rain or thundershowers with locally heavy to very heavy falls occurred in Karachi, Hyderabad and Khairpur divisions on the 25th and the 26th and scattered to local thundershowers in Rawalpindi, Sargodha, Peshawar, Quetta and Kalat divisions between the 24th and the 26th and in Lahore division on the 26th. The flooding on account of the heavy falls in Karachi caused the death of 34 persons rendered 25,000 families homeless. Telephone and telegraph lines became unservicable, the roads were badly damaged and the transport paralysed, Karachi was declared calamity hit area.

Chief amounts of rainfall recorded were:- Kakul and Barkhan  $2''$  each on the 20th; Cherat  $2''$  on the 21st; Khushab  $3''$  and Murree  $2''$  on the 24th; Karachi (Airport)  $5''$ ; Hyderabad  $3''$  and Badin  $2''$  on the 25th and Karachi Airport  $4''$  and Padidan  $2''$  on the 26th.

Day temperatures were markedly to considerably below normal in the northern and central divisions and slightly to appreciably so in the southern divisions on the 25th and the 26th and in western divisions on the 20th, in the Province outside the southern divisions on the 21st. These were slightly to appreciably above normal in the southern divisions on the 20th and the 21st, in the northern divisions on the 22nd and in the whole Province on the 23rd.

2. CHITTAGONG DIVISION :	Local rain fell throughout the week.
DACCA DIVISION :	Rainfall was local on one day and scattered on four days.
KHULNA DIVISION :	Fairly widespread rain fell on one day and scattered on four days.
RAJSHAHI DIVISION :	Local rain fell on two days and scattered on three days.
KASHMIR :	Data not available
LAHORE DIVISION :	Fairly widespread rain fell on two days.
RAWALPINDI DIVISION :	Local and scattered rain fell on one day each.
SARGODHA DIVISION :	Fairly widespread and local rain fell on one day each.
MULTAN DIVISION :	Local rain fell on one day.
BAHAWALPUR DIVISION :	Weather remained mainly dry.
PESHAWAR DIVISION :	Local rain fell on five days.
D. I. KHAN DIVISION :	Weather remained mainly dry.
QUETTA DIVISION :	Local rain fell on one day and scattered on three days.
KALAT DIVISION :	Rainfall was local on one day and scattered on four days.
KARACHI DIVISION :	Fairly widespread rain fell on one day local and scattered on two days each.
HYDERABAD DIVISION :	Fairly widespread rain fell on three days, and scattered on one day.
KHAIRPUR DIVISION :	Fairly widespread, local and scattered rain fell on one day each.
JUNAGADH :	Data not available.

3. Based on the data of stations having normals, the week's rainfall was in large excess in Sargodha, Quetta, Kalat, Karachi, Hyderabad and Khairpur and Peshawar divisions; normal in Rawalpindi and Multan divisions; deficient in Rajshahi divisions and scanty elsewhere in East Pakistan and in Lahore and D.I. Khan divisions where as no rain fell in Bahawalpur division.

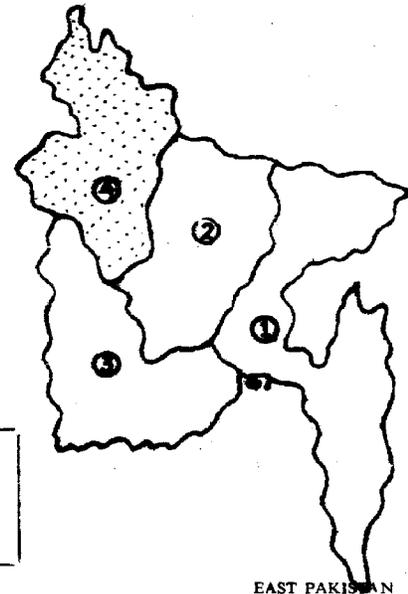
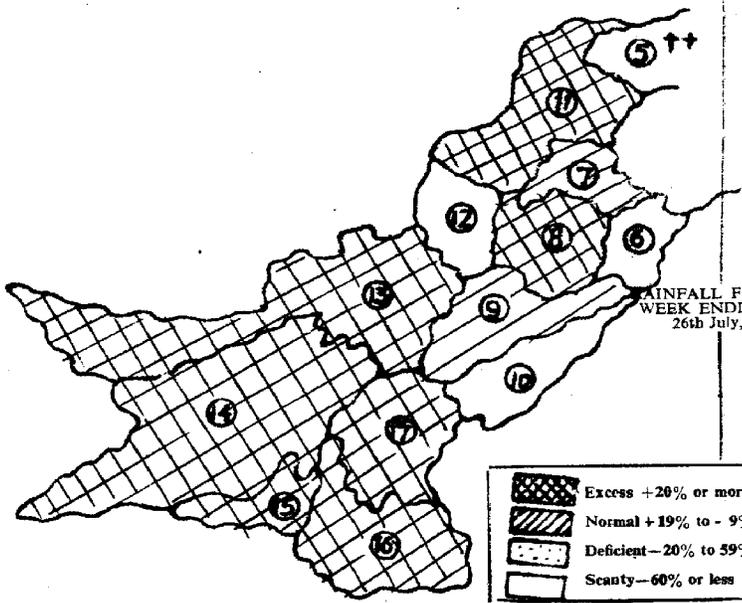
Rainfall for the period from 1st June 1967 to-date was in large excess in Karachi division, excess in Kalat and Hyderabad divisions; normal in Chittagong, Dacca, Rajshahi, Sargodha, Multan, Peshawar and Quetta divisions and deficient in Khulna, Rawalpindi, D.I. Khan and Khairpur divisions and scanty in Lahore and Bahawalpur divisions.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June 1967-to-date.

# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 26th July, 1967.			Rainfall for the Period from 1st June, 1967 to 26th July, 1967.			
	+ Actual	Normal	*Excess or defect	+ Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	2.0	5.0	- 0.2	37.4	37.4	0	Normal
2. Dacca	0.6	3.1	- 2.5	22.3	26.1	- 3.8	- 14
3. Khulna	0.7	3.3	- 2.6	17.0	27.5	- 10.6	- 38
4. Rajshahi	1.7	2.8	- 1.0	24.3	25.8	+ 1.6	+ 6
5. Kashmir **	—	—	—	—	—	—	—
6. Lahore	0.5	1.5	- 1.0	2.9	7.7	- 4.7	- 61
7. Rawalpindi	2.6	2.6	0	7.6	11.5	- 3.9	- 34
8. Sargodha	1.4	0.8	+ 0.6	1.7	2.1	- 0.4	- 19
9. Multan	0.5	0.4	+ 0.1	2.1	2.5	- 0.4	- 17
10. Bahawalpur	0	0.6	- 0.6	0.1	2.1	- 1.9	- 93
11. Peshawar	2.1	0.4	+ 1.7	3.3	2.9	+ 0.4	+ 14
12. D. I. Khan	0.1	0.4	- 0.3	1.5	2.1	- 0.6	- 30
13. Quetta	0.5	0.1	+ 0.2	0.9	1.0	- 0.1	- 14
14. Kalat	0.9	0.1	+ 0.8	0.9	0.7	+ 0.2	+ 31
15. Karachi	—	—	—	—	—	—	—
16. Hyderabad	0.6	0.9	+ 2.7	4.5	3.4	+ 1.1	+ 32
17. Khairpur	0.8	0.2	+ 0.6	0.8	1.1	+ 0.3	- 27
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01.  
 † Rainfall of stations having no normals is not included. Data not available.

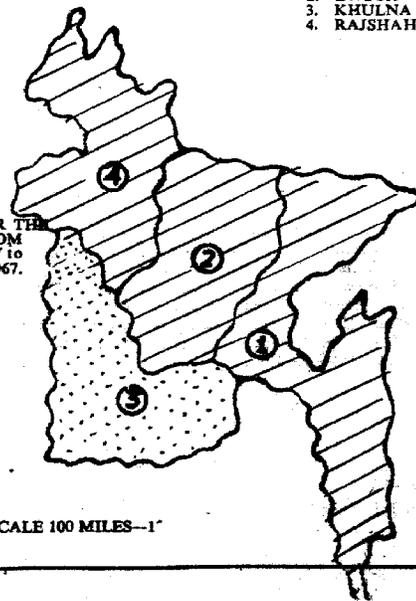
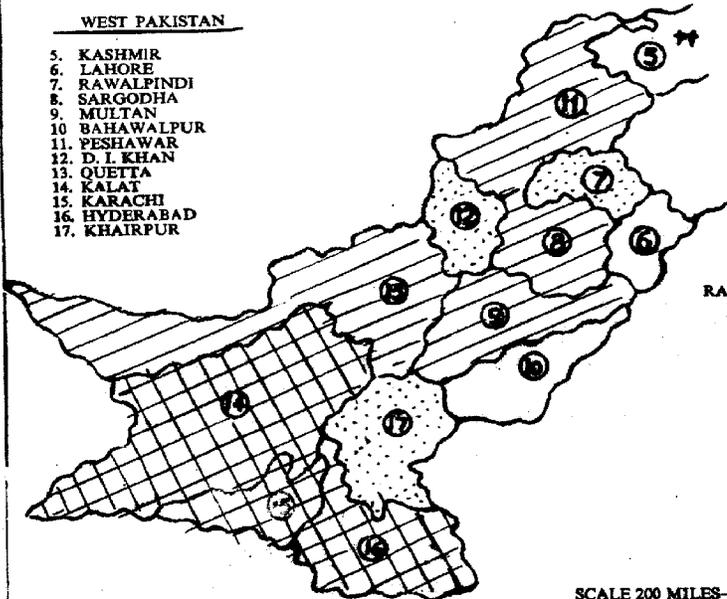


**WEST PAKISTAN**

- 5. KASHMIR
- 6. LAHORE
- 7. RAWALPINDI
- 8. SARGODHA
- 9. MULTAN
- 10. BAHAWALPUR
- 11. PESHAWAR
- 12. D. I. KHAN
- 13. QUETTA
- 14. KALAT
- 15. KARACHI
- 16. HYDERABAD
- 17. KHAIRPUR

**EAST PAKISTAN**

- 1. CHITTAGONG
- 2. Dacca
- 3. KHULNA
- 4. RAJSHAH



SCALE 200 MILES—1"

SCALE 100 MILES—1"

## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 2nd August, 1967.

---o.o.o---

## SUMMARY OF WEATHER

**EAST PAKISTAN:** Last week's depression in the northwest Bay of Bengal crossed coast in the early hours of 27th and moved away westnorthwest-wards. In its association fairly widespread rain or thundershowers occurred in Khulna division and scattered elsewhere in the Province on the 27th. Local to fairly widespread rain or thundershowers occurred in the Province between the 28th and the 30th. Thereafter, an easterly low pressure area entered the north Bay of Bengal on the 30th and rapidly concentrated into a depression on the evening of the 31st. It deepened further, moved slowly westwards and lay on the morning of the 2nd over Orissa coast about 20 miles southwest of Cuttack. The depression kept the monsoon in its grip and so remained weak over the province causing mainly local rain or thundershowers in Chittagong and Dacca divisions on the 31st and over the whole Province during the last two days of the week.

Significant amounts of rainfall recorded during the week were:- Cox's Bazar 4" on the 28th and the 29th; 2" on the 30th and Comilla 2" on the 1st

Day temperatures were slightly to appreciably below normal in the Province on the 29th and were to the same extent above normal practically in the whole province during the rest of the week.

**WEST PAKISTAN:** Last week's depression over Karachi division and adjoining north Arabian Sea rapidly weakened and became unimportant over the northern sector of the north Arabian Sea by the 28th. Simultaneously a western disturbance moved across the north of the Province. Under their combined influence local to fairly widespread rain or thundershowers occurred in Rawalpindi, Multan and Peshawar divisions on the 27th and in these and in Lahore, Sargodha and Bahawalpur divisions on the 28th. Scattered rain or thundershowers also occurred in Quetta and Kalat divisions on the 27th, in Rawalpindi division on the 29th and a few falls of light rain in Hyderabad and Khairpur divisions on the 27th. Thereafter, a deep depression from the Bay of Bengal began weakening while moving across central India on the 29th and lay as a well marked low pressure area over Hyderabad and Khairpur divisions on the 30th and filled up there on the 1st. In the meantime with the strengthening of the Arabian Sea branch of monsoon a well marked low pressure area developed over Surastra and neighbourhood on the 31st which moved slowly westnorth westwards, and weakened and gradually merged with the seasonal low over Quetta and Kalat divisions by the 2nd. Under their combined influence fairly widespread rain or thundershowers occurred in Rawalpindi and Hyderabad divisions on the 30th and the 31st and in Sargodha, Multan and Bahawalpur divisions on the 1st. Scattered to local thundershowers occurred in Hyderabad and Khairpur divisions on the 29th, in Sargodha, Peshawar, D. I. Khan, Karachi and Khairpur divisions between the 30th and the 31st and practically in the whole Province on the last two days of the week.

Significant amounts of rainfall recorded were: Rawalpindi 2", Jhelum 1½" and Karachi Airport 1" on the 27th; Lyallpur 3" on the 28th; Karachi Airport 3" and Rawalpindi 2" on the 30th; Badin and Mithi 2" and Karachi Airport 1½" on the 31st; Sargodha, Lyallpur, Cherat, Nawabshah and Jacobabad 1½" each on the 1st and Chakdara 1½" on the 2nd.

Day temperatures were markedly to considerably below normal in the northern divisions on the 31st and slightly to appreciably below normal over the whole Province during the rest of the week

2. CHITTAGONG DIVISION :	Local rain fell on five days and scattered on one day.
DACCA DIVISION :	Widespread and local rain fell on one day each; fairly widespread on two days and scattered on three days.
KHULNA DIVISION :	Widespread and fairly widespread rain fell on two days each and local and scattered on one day each.
RAJSHAHI DIVISION :	Local and scattered rain fell on three days each.
KASHMIR :	Data not available.
LAHORE DIVISION :	Local rain fell on one day.
KAWALPINDI DIVISION :	Fairly widespread rain fell on four days and scattered on three days.
SARGODHA DIVISION :	Fairly widespread and local rain fell on two days each.
MULTAN DIVISION :	Fairly widespread and local rain fell on one day each.
BAHAWALPUR DIVISION :	Fairly widespread rain fell on two days.
PESHAWAR DIVISION :	Local and scattered rain fell on three days each.
D. I. KHAN DIVISION :	Scattered rain fell on one day.
QUETTA DIVISION :	Local rain fell on one day and scattered on four days.
KALAT DIVISION :	Scattered rain fell on one day.
KARACHI DIVISION :	Scattered rain fell on four days.
HYDERABAD DIVISION :	Fairly widespread and scattered rain fell on two days each and local on one day.
KHAIRPUR DIVISION :	Fairly widespread and scattered rain fell on one day each and local on two days.
JUNAGADH	Data not available.

3. Based on the data of stations having normals, the week's rainfall was in large excess in Karachi, Sargodha, Peshawar, Kalat, Hyderabad and Khairpur divisions; excess in Rawalpindi and Quetta divisions; normal in Bahawalpur division; deficient in Chittagong, Dacca, Khulna and Multan divisions and scanty elsewhere in the country.

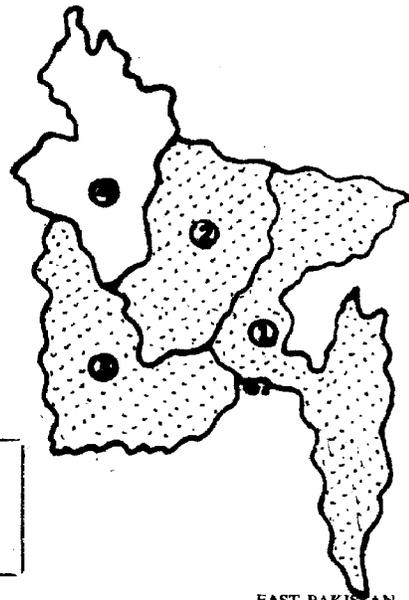
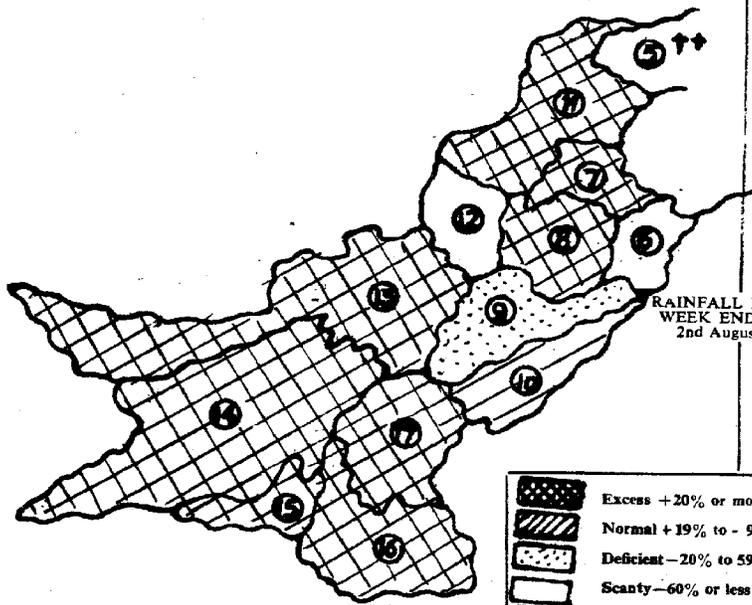
Rainfall for the period from 1st June 1967 to-date was in large excess in Karachi, Hyderabad divisions, excess in Khairpur, Kalat, Peshawar and Sargodha divisions; normal in Chittagong, Dacca, Rajshahi Multan and Quetta divisions; deficient in Khulna, Rawalpindi and D. I. Khan divisions and scanty in Lahore and Bahawalpur divisions.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June 1967 to-date.

# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 2nd August 1967.			Rainfall for the Period from 1st June, 1967 to 2nd August 1967.			
	† Actual	Normal	*Excess or defect	*Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	3.1	5.4	— 2.3	40.5	42.8	— 2.3	— 5
2. Dacca	1.9	3.3	— 1.4	24.2	29.4	— 5.2	— 18
3. Khulna	2.4	3.2	— 0.8	19.3	30.7	— 11.4	— 37
4. Rajshahi	0.7	3.2	— 2.6	24.9	29.1	— 4.1	— 14
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0.3	1.6	— 1.4	3.2	9.4	— 6.2	— 66
7. Rawalpindi	3.6	2.6	+ 1.1	11.2	14.1	— 2.9	— 20
8. Sargodha	2.9	0.9	+ 2.0	4.6	3.0	+ 1.6	+ 55
9. Multan	0.5	0.7	— 0.2	2.5	3.1	— 0.6	— 19
10. Bahawalpur	0.7	0.8	— 0.1	0.9	2.9	— 2.1	— 71
11. Peshawar	1.3	0.5	+ 0.8	4.7	3.5	+ 1.2	+ 35
12. D. I. Khan	0	0.6	— 0.6	1.5	2.7	— 1.2	— 44
13. Quetta	0.6	0.4	+ 0.2	1.5	1.4	+ 0.1	+ 5
14. Kalat	0.2	0.1	+ 0.1	1.1	0.8	+ 0.3	+ 36
15. Karachi	—	—	—	—	—	—	—
16. Hyderabad	2.8	0.4	+ 2.4	7.2	3.8	+ 3.4	+ 91
17. Khairpur	1.7	0.5	+ 1.2	2.5	1.5	+ 0.9	+ 59
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. Data not available.

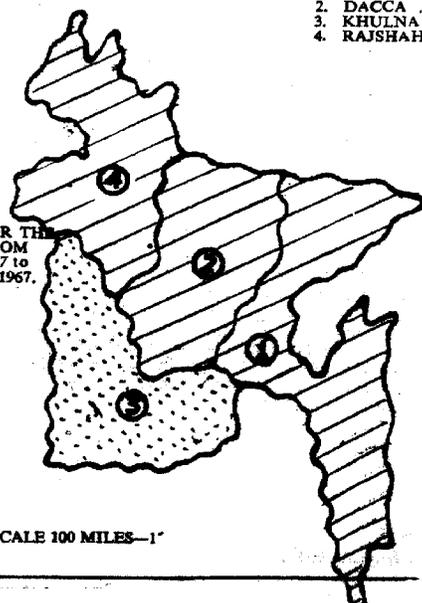
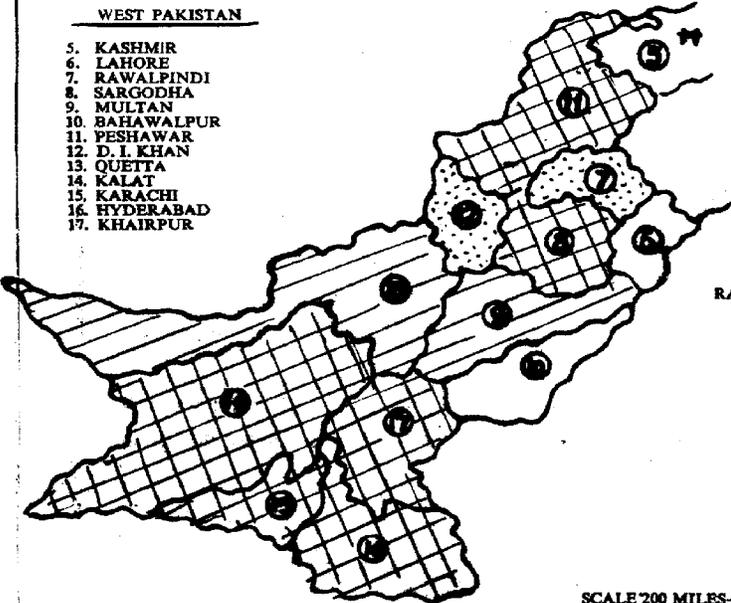


**WEST PAKISTAN**

- 5. KASHMIR
- 6. LAHORE
- 7. RAWALPINDI
- 8. SARGODHA
- 9. MULTAN
- 10. BAHAWALPUR
- 11. PESHAWAR
- 12. D. I. KHAN
- 13. QUETTA
- 14. KALAT
- 15. KARACHI
- 16. HYDERABAD
- 17. KHAIRPUR

**EAST PAKISTAN**

- 1. CHITTAGONG
- 2. DACCA
- 3. KHULNA
- 4. RAJSHAHI



SCALE 200 MILES—1"

SCALE 100 MILES—1"

## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 9th August, 1967.

—o:O:o—

## SUMMARY OF WEATHER

**EAST PAKISTAN:** Last week's deep depression weakened into a depression on the 3rd and thereafter weakens further it moved away west-northwest-wards. It was closely followed by an easterly low pressure area which appeared over the head Bay of Bengal on the 4th and moving in a westerly direction merged with the monsoon trough over Bihar by the 6th. Monsoon was weak during the first half of the week and caused scattered to local rain or thundershowers over the Province. Thereafter it became active and caused fairly widespread to widespread rain or thundershowers over the Province with locally very heavy falls in Chittagong and Dacca divisions on the last three days of the week.

Significant amounts of rainfall recorded were:- Chittagong 6", Cox's Bazar, Narayanganj and Dacca 4" each and Majdee Court Rangpur 3" each on the 8th and Khulna 4" on the 9th.

Day temperatures were:- Slightly above normal in the Province on the 3rd. These were slightly to appreciably below normal in Chittagong division on the 7th and in the whole Province on the last two days of the week.

**WEST PAKISTAN:-** In association with the passage of a western disturbance across the north of the Province between the 5th and the 8th and the approach of another one over there on the 9th, the seasonal low over West Pakistan remained well marked. The axis of moist easterlies into the northern parts of the Province. Under their combined influence fairly widespread rain or thundershowers occurred in Lahore division on the 5th, 6th, 8th and the 9th and in Bahawalpur and Sargodha divisions on the 4th and the 9th respectively and scattered to local in Peshawar and Rawalpindi divisions throughout the week, in D. I. Khan and Kalat divisions on the 3rd, in Quetta division on the 5th and the 6th, in Kalat division on the 5th, in Sargodha, D. I. Khan and Kalat divisions on the 7th and in D. I. Khan and Bahawalpur divisions on the 8th and the 9th respectively. A few falls of light rain or thunderstorms also occurred in the central divisions of moist of the days during the week.

Significant amounts of rainfall recorded were:- Murree, Bahawalpur and Kakul 2" each on the 4th; Jhelum and Rawalpindi 3" each and Sialkote 1½" on the 6th; Haripur 1" on the 7th; Sialkot 1" on the 8th and Khushab 1½" on the 9th.

Day temperatures were slightly to appreciably below normal in Lahore, Rawalpindi and Sargodha divisions on the 4th, 5th, and the 7th; in Hyderabad and Khairpur divisions between the 3rd and the 7th and in Sargodha, Peshawar and Khairpur divisions on the 9th. These were slightly to appreciably above normal in Multan, Bahawalpur and Peshawar divisions on the 3rd and in Karachi and Hyderabad divisions on the 8th.

2. CHITTAGONG DIVISION :	Widespread rain fell on two days, fairly widespread and scattered on one day each and local on three days.
DACCA DIVISION :	Widespread rain fell on one day, fairly widespread on three days and local on two days.
KHULNA DIVISION :	Widespread rain fell on three days and local on four days.
RAJSHAHI DIVISION :	Widespread and local rain fell on two days each and scattered on three days.
KASHMIR :	Data not available.
LAHORE DIVISION :	Fairly widespread rain fell on four days.
RAWALPINDI DIVISION :	Fairly widespread rain fell on one day, local on four days and scattered on two days.
SARGODHA DIVISION :	Fairly widespread and scattered rain fell on one day each.
MULTAN DIVISION :	Weather remained mainly dry.
BAHAWALPUR DIVISION :	Fairly widespread and local rain fell on one day each.
PESHAWAR DIVISION :	Local rain fell on three days and scattered on four days.
D. I. KHAN DIVISION :	Scattered rain fell on three days.
QUETTA DIVISION :	Local and scattered rain fell on two days.
KALAT DIVISION :	Scattered rain fell on three days.
KARACHI DIVISION :	Weather remained mainly dry.
HYDERABAD DIVISION :	} Weather remained dry.
KHAIRPUR DIVISION :	
JUNAGADH	Data not available.

3. Based on the data of stations having normals, the week's rainfall was in large excess in Chittagong, Dacca, Bahawalpur and Kalat divisions; excess in Khulna, Rajshahi and Rawalpindi divisions; normal in Lahore, Sargodha and Quetta division; scanty in Multan, Peshawar and D. I. Khan divisions, whereas no rain fell in Karachi, Hyderabad and Khairpur divisions.

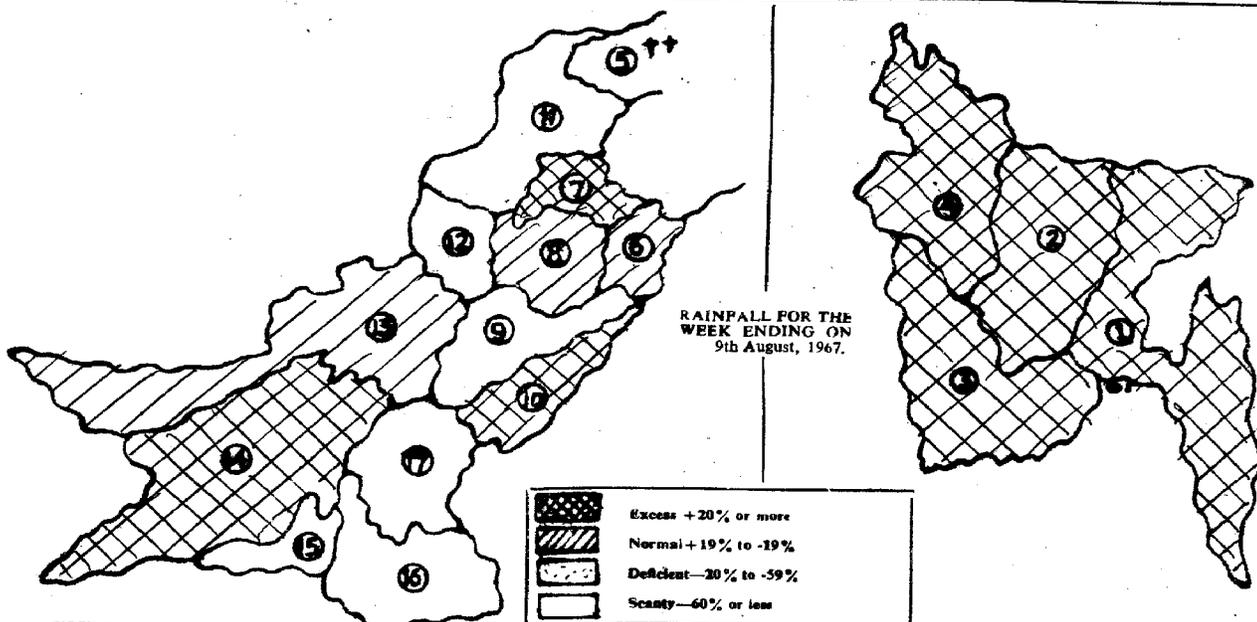
Rainfall for the period from 1st June 1967 to-date was in large excess in Karachi and Hyderabad divisions; excess in Sargodha, Kalat and Khairpur divisions; normal in Chittagong, Dacca, Rajshahi, Rawalpindi, Peshawar and Quetta divisions and deficient elsewhere in the country.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June 1967 to-date.

# WEEKLY WEATHER REPORT

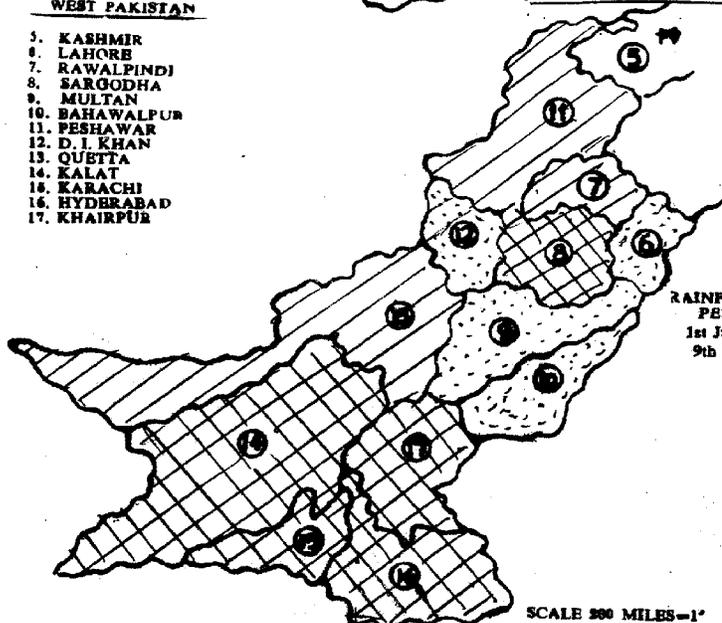
DIVISION.	Rainfall for week ending the 9th August, 1967.			Rainfall for the Period from 1st June, 1967. to 9th August, 1967.			
	Actual	Normal	*Excess or defect	Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	7.6	4.4	+ 3.3	48.1	47.2	+ 0.9	+ 2
2. Dacca	6.9	3.0	+ 3.8	31.0	32.4	- 1.4	- 4
3. Khulna	4.3	2.9	+ 1.4	21.6	33.6	- 11.9	- 36
4. Rajshahi	4.2	2.8	+ 1.4	29.1	31.8	- 2.7	- 9
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	2.0	1.7	+ 0.2	5.2	11.1	- 5.9	- 53
7. Rawalpindi	3.9	2.9	+ 0.7	14.9	17.0	- 2.1	- 12
8. Sargodha	0.7	0.8	- 0.1	5.3	3.8	+ 1.5	+ 40
9. Multan	0.1	0.9	- 0.8	2.3	4.0	- 1.7	- 42
10. Bahawalpur	1.3	0.5	- 0.8	2.1	3.4	- 1.3	- 38
11. Peshawar	0.1	1.0	- 0.9	4.7	4.4	+ 0.3	+ 8
12. D. I. Khan	0.2	0.6	+ 0.4	1.7	3.3	- 1.6	- 49
13. Quetta	0.3	0.3	- 0	1.8	1.7	+ 0.1	+ 5
14. Kalat	0.3	0.1	- 0.2	1.4	0.9	+ 0.5	+ 50
15. Karachi	0	0.2	- 0.2	—	—	—	—
16. Hyderabad	0	0.5	- 0.5	7.2	4.3	+ 2.9	+ 67
17. Khairpur	0	0.4	- 0.4	2.5	1.9	+ 0.5	+ 27
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included.      †† Data not available.

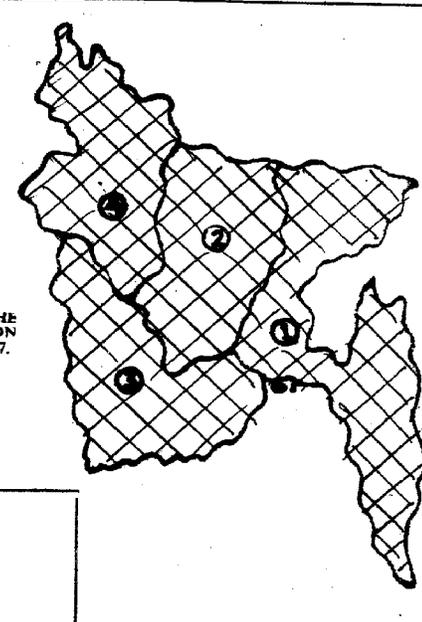


**WEST PAKISTAN**

- 5. KASHMIR
- 6. LAHORE
- 7. RAWALPINDI
- 8. SARGODHA
- 9. MULTAN
- 10. BAHAWALPUR
- 11. PESHAWAR
- 12. D. I. KHAN
- 13. QUETTA
- 14. KALAT
- 15. KARACHI
- 16. HYDRABAD
- 17. KHAIRPUR

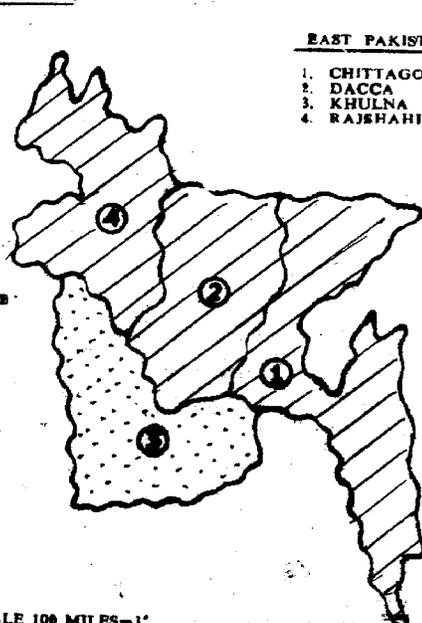


SCALE 200 MILES-1"



**EAST PAKISTAN**

- 1. CHITTAGONG
- 2. DACCA
- 3. KHULNA
- 4. RAJSHAHI



SCALE 100 MILES-1"

## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 16th August, 1967.

-----o:O:-----

### SUMMARY OF WEATHER

**EAST PAKISTAN:-** An easterly low pressure area which lay over West Bengal and neighbourhood on the 10th moved away slowly northwestwards. It was closely followed by another easterly low pressure area which appeared over northwest Bay of Bengal on the last day of the week. Under their influences rain or thundershowers were fairly widespread over the Province on the 10th and scattered to local during the rest of the week.

Significant amounts of rainfall recorded during the week were:- Cox's Bazar 3" and Narayanganj, Dacca and Barisal 2" each on the 10th; Khulna 2" on the 12th; Cox's Bazar 2" on the 14th.

Day temperatures were slightly to appreciably below normal over the Province on the 10th and only in Chittagong division on the 14th. These were to the same extent above normal over the Province on the 13th, 15th and the 16th and only in Dacca and Rajshahi divisions on the 14th.

**WEST PAKISTAN:-** Last week's western disturbance moved away slowly across the north of the Province by the 12th. Simultaneously, an easterly low pressure area travelled northwestwards across India and merged with the monsoon trough. Under its influence deflected monsoon easterlies penetrated into the northern divisions of the Province and caused fairly widespread rain or thundershowers in Lahore division between the 11th and the 14th and scattered to local thundershowers in Peshawar and Rawalpindi divisions throughout the week and in Sargodha and Multan divisions on the 15th. A few falls of heavy rain occurred in Rawalpindi division on the 15th and 16th and thunderstorms in some of the central divisions between the 10th and the 13th and again on the 14th and only in Lahore division on the 15th and the 16th.

Significant amounts of rainfall recorded were:- Sialkot 1" on the 12th; Parachinar 2" on the 13th; Rawalpindi 2" on the 14th and 3" on the 15th and the 16th.

Day temperatures were slightly to appreciably below normal in the northern and central divisions on the 10th, only in the northern divisions on the 13th, 15th and the 16th. These were slightly to appreciably above normal in Quetta and Kalat division between the 13th and the 16th and in Hyderabad and Karachi divisions on the 13th.

2. CHITTAGONG DIVISION :	Fairly widespread and scattered rain fell on one day each and local on five days.
DACCA DIVISION :	Widespread, fairly widespread and local rain fell on one day each and scattered on two days.
KHULNA DIVISION :	Widespread rain fell on one day local on two days and scattered on four days.
RAJSHAHI DIVISION :	Local rain fell on one day and scattered on four days.
KASHMIR DIVISION :	Data not available.
LAHORE DIVISION :	Fairly widespread rain fell on four days.
RAWALPINDI DIVISION :	Local rain fell on three and scattered on four days.
SARGODHA DIVISION :	} Scattered rain fell on one day.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	Weather remained dry.
PESHAWAR DIVISION :	Rainfall was local on two days and scattered on four days.
I. I. KAHN DIVISION :	Weather remained dry.
QUETTA DIVISION :	Weather remained mainly dry.
KALAT DIVISION :	} Weather remained dry.
KARACHI DIVISION :	
HYDERABAD DIVISION :	} Weather remained mainly dry.
KHAIRPUR DIVISION :	
JUNAGADH	Data not available.

3. Based on the data of stations having normals, the week's rainfall was in excess in Rawalpindi division, normal in Lahore and Peshawar divisions, deficient in Chittagong, Dacca, Khulna and Sargodha divisions and scanty in Rajshahi and Multan divisions whereas no rain fell elsewhere in West Pakistan.

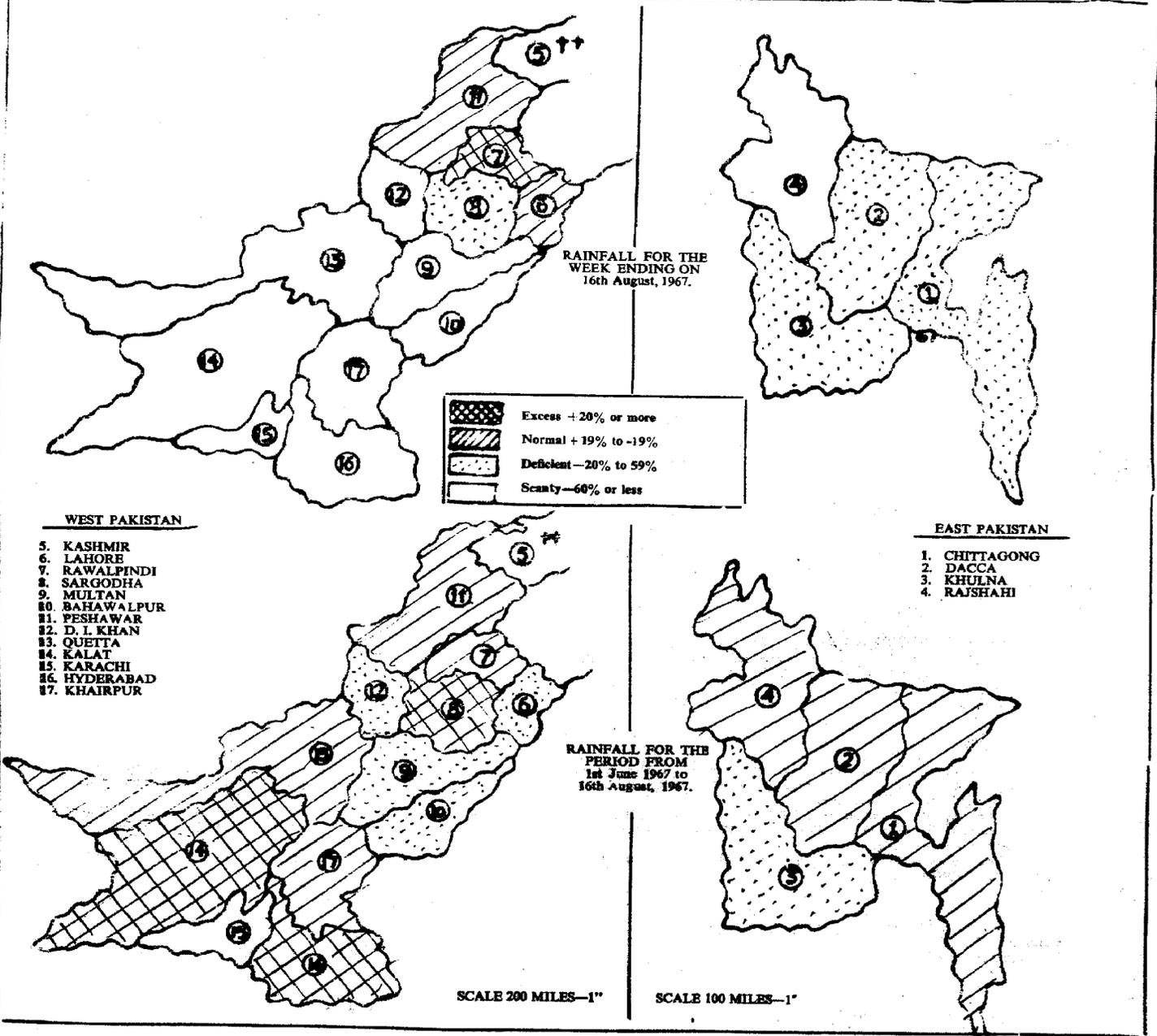
Rainfall for the period from 1st June 1967 to date was in excess in Sargodha, Kalat and Hyderabad divisions normal in Chittagong, Dacca, Rajshahi, Rawalpindi, Peshawar, Quetta and Khairpur divisions and deficient elsewhere in the country outside Karachi division whose data is not available.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June 1967 to date.

# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 16th August 1967.			Rainfall for the Period from 1st June, 1967 to 16th August 1967.			
	† Actual	Normal	*Excess or defect	*Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	2.4	5.1	- 2.7	50.5	52.3	- 1.8	- 3
2. Dacca	2.1	3.2	- 1.1	33.1	35.6	- 2.5	- 7
3. Khulna	2.3	3.1	- 0.7	24.0	36.7	- 12.7	- 35
4. Rajshahi	0.5	2.8	- 2.4	29.6	34.7	- 5.1	- 15
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	2.0	1.8	+ 0.2	7.2	12.9	- 5.8	- 45
7. Rawalpindi	5.0	3.3	+ 1.8	19.9	20.2	- 0.3	- 2
8. Sargodha	0.1	0.9	- 0.8	5.4	4.1	+ 1.3	+ 30
9. Multan	0.1	0.6	- 0.5	2.4	4.6	- 2.2	- 48
10. Bahawalpur	0	0.4	- 0.4	2.1	3.8	- 1.7	- 44
11. Peshawar	1.0	0.9	+ 0.1	5.7	5.4	+ 0.4	+ 7
12. D. I. Khan	0	0.4	- 0.4	1.7	3.7	- 2.0	- 54
13. Quetta	0	0.3	- 0.3	1.8	1.9	- 0.2	- 8
14. Kalat	0	0.1	- 0.1	1.4	1.0	+ 0.4	+ 36
15. Karachi	0	0.3	- 0.3	—	—	—	—
16. Hyderabad	0	0.8	- 0.8	7.2	5.1	+ 2.1	+ 41
17. Khairpur	0	0.3	- 0.3	2.5	2.2	+ 0.3	+ 11
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. †† Data not available.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 23rd August, 1967.

— o.o.o —

## SUMMARY OF WEATHER

**EAST PAKISTAN:** Last week's easterly low pressure area over head Bay of Bengal concentrated into a depression and was centred on the morning of the 18th near Lat. 21°N and Longitude 82½°E. It crossed the North Orissa and West Bengal coast on the night of 19th and slowly moved away westnorthwestward. Another easterly low pressure wave entering the North Bay of Bengal on the 21st moved away westnorthwestwards by the next day. Under their influence rain or thundershowers were local to fairly widespread over the Province between the 17th and the 19th and on the 22nd and the 23rd and only in Khulna division on the 20th and the 21st and scattered to local in Chittagong and Dacca divisions on the 20th and the 21st.

Significant amounts of rainfall recorded were:- Srimangal and Sirajganj 2" each on the 17th; Rangamati and Cox's Bazar 3" each on the 18th; Cox's Bazar and Sylhet 2" each on the 21st and Cox's Bazar 4" and Barisal 2" on the 23rd

Day temperatures were slightly above normal in the Province during the first six days and only in Rajshahi division on the last day of the week.

**WEST PAKISTAN:** A western disturbance moving across the north of the Province accentuated the seasonal low over West Pakistan. Under its influence scattered rain or thundershowers occurred in Peshawar and D. I. Khan divisions on the 17th and the 18th, in Rawalpindi division on the 17th and the 20th and in Quetta division on the 18th. A few falls of light rain or thunderstorms also occurred sporadically in the northern divisions between the 17th and the 20th. Simultaneously a tropical depression travelling from the Bay of Bengal lay near Ajmer on the morning of 21st and in its advance a secondary circulation developed over southwest Rajasthan and Hyderabad divisions. Another depression gradually filled up the next day after moving to India Punjab the secondary intensified into a well marked low pressure area and caused widespread rain or thundershowers with locally heavy to very heavy falls in Hyderabad, Khairpur and Karachi divisions and scattered to local showers elsewhere in the Province on the 22nd and practically over the whole Province on the 23rd. According to newspaper reports, these heavy rains caused dislocation of normal life in Karachi and some districts in Hyderabad division were declared "Calamity hit Area". The secondary however remained practically stationary and was filling up on the last day of the week.

Chief amounts of rainfall recorded during the week were:- Rawalpindi 2" and Harnai 1½" on the 21st; Badin 5"; Padidan 2" and Harnai, Nawabshah and Karachi (Technical High School) 1½" each on the 22nd and Karachi Airport and Nawabshah 1½" each on the 23rd.

Day temperatures were slightly below normal in the Province outside Quetta, Kalat and Karachi divisions on the 17th, only in Sargodha, Quetta and Khairpur divisions on the 18th and the 19th and in the northern divisions on the 21st. These were slightly to appreciably above normal in the central divisions on the 20th and in the northern and central divisions on the 23rd.

2. CHITTAGONG DIVISION :	Fairly widespread rain fell on two days and local on four days and scattered on one day.
DACCA DIVISION :	Fairly widespread rain fell on three days local on one day, scattered on three days.
KHULNA DIVISION :	Widespread rain fell on two days, fairly widespread on three days, local on day.
RAJSHAHI DIVISION :	Local rain fell on five days.
KASHMIR :	Data not available.
LAHORE DIVISION :	Local rain fell on two days.
RAWALPINDI DIVISION :	Scattered rain fell on four days.
SARGODHA DIVISION :	Local rain fell on one day.
MULTAN DIVISION :	Weather remained mainly dry.
BAHAWALPUR DIVISION :	Fairly widespread and scattered rain fell on one day each.
PESHAWAR DIVISION :	Scattered rain fell on five days.
D. I. KHAN DIVISION :	Local and scattered rain fell on one day each.
QUETTA DIVISION :	Scattered rain fell on three days.
KALAT DIVISION :	Scattered rain fell on one days.
KARACHI DIVISION :	Local rain fell on two days and scattered on one day.
HYDERABAD DIVISION :	} Widespread and local rain fell on one day each.
KHAIRPUR DIVISION :	
JUNAGADH	Data not available.

3. Based on the data of stations having normals, the week's rainfall was in large excess in D. I. Khan, Quetta, Karachi, Hyderabad and Khairpur divisions, normal in Chittagong, and Bahawalpur divisions, deficient in Dacca, Khulna, Rawalpindi divisions and scanty elsewhere in the country outside Peshawar and Kalat divisions where no rain fell during the week.

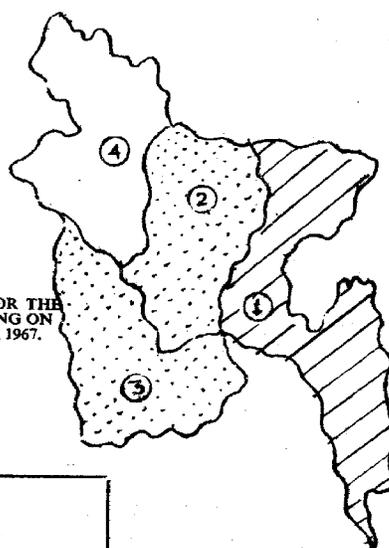
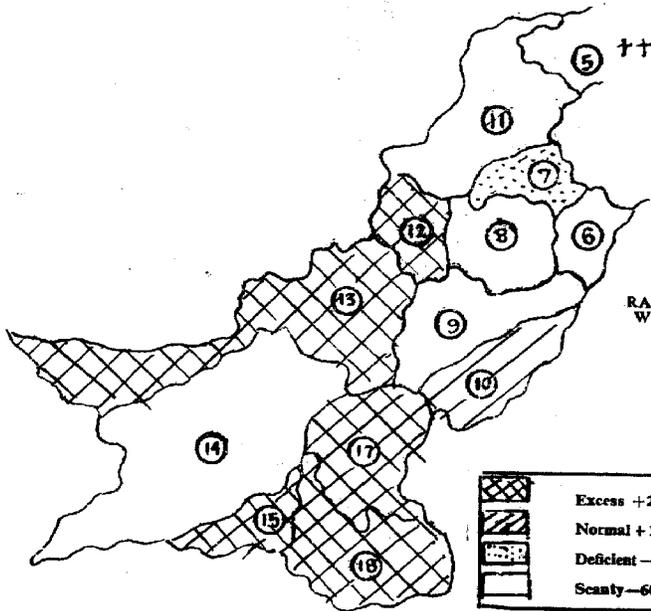
Rainfall for the period from 1st June 1967 to-date was in large excess in Hyderabad and Karachi divisions, excess in Khairpur and Kalat divisions, normal in Chittagong, Dacca, Rajshahi, Rawalpindi, Sargodha, Peshawar and Quetta divisions and deficient elsewhere in the country.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June 1967 to-date.

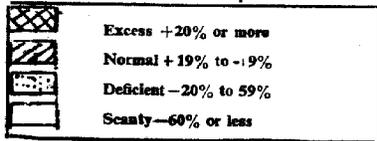
# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 23rd August 1967.			Rainfall for the Period from 1st June, 1967 to 23rd August 1967.			
	† Actual	Normal	*Excess or defect	*Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	3.7	4.2	- 0.5	54.1	56.4	- 2.3	- 4
2. Dacca	1.7	3.0	- 1.4	34.8	38.7	- 3.9	- 10
3. Khulna	1.9	2.9	- 1.1	25.8	39.6	- 13.8	- 35
4. Rajshahi	0.9	2.9	- 2.0	30.5	37.6	- 7.1	- 19
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0.4	1.7	- 1.3	7.6	14.6	- 7.0	- 48
7. Rawalpindi	1.7	2.5	- 0.8	21.6	22.7	- 1.2	- 5
8. Sargodha	0.2	1.0	- 0.8	56.0	5.1	+ 0.5	+ 9
9. Multan	0	0.4	- 0.4	2.5	5.1	- 2.6	- 52
10. Bahawalpur	0.4	0.4	- 0.1	2.5	4.3	- 1.8	- 43
11. Peshawar	0	0.6	- 0.6	5.7	6.0	- 0.2	- 4
12. D. I. Khan	1.1	0.2	+ 0.9	2.8	3.9	- 1.1	- 29
13. Quetta	0.6	0.2	+ 0.5	2.4	2.1	+ 0.3	+ 14
14. Kalat	0	0	0	1.4	1.0	+ 0.3	+ 33
15. Karachi	—	—	—	—	—	—	—
16. Hyderabad	3.3	0.3	+ 3.0	10.5	5.4	+ 5.1	+ 94
17. Khairpur	1.3	0.1	+ 1.1	3.7	2.3	+ 1.4	+ 59
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. Data not available.



RAINFALL FOR THE WEEK ENDING ON 23rd August, 1967.

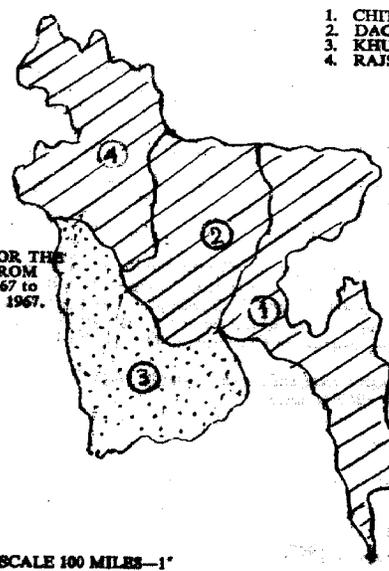
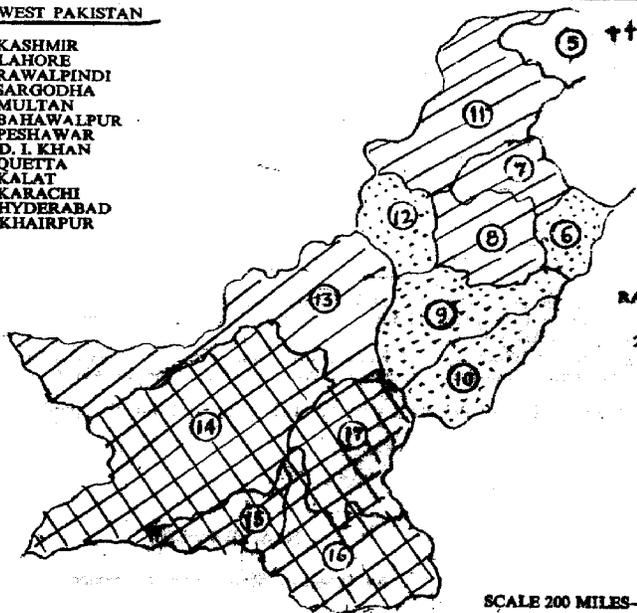


**WEST PAKISTAN**

- 5. KASHMIR
- 6. LAHORE
- 7. RAWALPINDI
- 8. SARGODHA
- 9. MULTAN
- 10. BAHAWALPUR
- 11. PESHAWAR
- 12. D. I. KHAN
- 13. QUETTA
- 14. KALAT
- 15. KARACHI
- 16. HYDERABAD
- 17. KHAIRPUR

**EAST PAKISTAN**

- 1. CHITTAGONG
- 2. DACCA
- 3. KHULNA
- 4. RAJSHAHI



RAINFALL FOR THE PERIOD FROM 1st June 1967 to 23rd August, 1967.

SCALE 200 MILES—1"

SCALE 100 MILES—1"

## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 30th August, 1967.

—o:O:o—

### SUMMARY OF WEATHER

**EAST PAKISTAN:** During the first three days of the week, monsoon remained active and caused fairly widespread to widespread rain or thundershowers in the Province with locally heavy falls in Chittagong division. Thereafter, with the passage of a well easterly low pressure area across Central Burmah, the monsoon activity over the Province decreased and only scattered to local rain or thundershowers occurred in Khulna and Rajshahi divisions on the 27th and in Chittagong and Khulna divisions on the 28th. The low pressure area on entering into the Bay of Bengal concentrated into a depression with its centre on the morning of 29th near Latitude 19°N and Longitude 87°E. It crossed Orissa coast the same night, weakened into a low pressure area and then moved away northwestward. Monsoon temporarily strengthened in its wake and caused fairly widespread rain or thundershowers over the Province on the 29th and the 30th. On the last day of the week another easterly low pressure area entered the north Bay of Bengal.

Significant amounts of rainfall recorded were:- Cox's Bazar 3" on the 24th; Sirajganj 3" and Cox's Bazar, Sylhet and Bogra 2" each on the 25th; Dacca 4" and Chittagong and Narayanganj 2" each on the 26th; Brahmanbaria 2" on the 29th.

Day temperatures were slightly to appreciably below normal over the Province on the 26th and in Chittagong and Khulna divisions on the 25th. These were to the same extent above normal in Chittagong and Rajshahi divisions on the 24th and in the whole Province during the last four days of the week.

**WEST PAKISTAN:** Under the influence of an easterly low pressure area which moved across Uttar Pradesh to Punjab (India), the incursion of moist easterlies into the northern divisions of West Pakistan became well marked and caused fairly widespread rain or thundershowers with a few heavy falls in Lahore and Rawalpindi divisions on the 24th and in Lahore and Multan divisions on the 26th and scattered to local thundershowers in Peshawar and Hyderabad divisions on the 24th, in the northern divisions on the 25th and elsewhere in the northern and central divisions of the Province on the 26th. Thereafter the passage of a western disturbance to the north of the Province caused accentuation of the seasonal trough extending from Kalat division to D. I. Khan division. As a result scattered thunderstorms or showers occurred in Bahawalpur and Quetta divisions on the 27th, in Rawalpindi and Multan divisions on the 28th, in Peshawar and D. I. Khan divisions on the 29th and in Rawalpindi, Sargodha and D. I. Khan divisions on the 30th. A few thunderstorms also occurred in Multan and Peshawar divisions between the 27th and the 30th.

Chief amounts of rainfall recorded were:- Haripur 4", Islamabad and Rawalpindi 3" each and Sialkot and Jhelum 2" each on the 24th; Khushab 4" on the 25th; Sialkot, Rawalpindi and Lyallpur 2" each on the 26th; Multan 1½" on the 28th and Khushab 1" on the 30th.

Day temperatures were slightly to appreciably below normal in the central divisions on the 24th, in Rawalpindi, Hyderabad and Khairpur divisions on the 25th and in the whole province outside Kalat and Karachi divisions between the 26th and the 29th. These were slightly above normal in the province outside the central divisions on the 24th and slightly to appreciably so in Kalat and Karachi divisions on the 29th and the 30th.

2. CHITTAGONG DIVISION :	Rain-fall was widespread on one day fairly widespread on three days and local on two days.
DACCA DIVISION :	Widespread rain fell on two days fairly widespread on three days.
KHULNA DIVISION :	Widespread rain fell on four days local on two days and scattered on one day.
RAJSHAHI DIVISION :	Fairly widespread and local rain fell on two days each and widespread and scattered on one day each.
KASHMIR DIVISION :	Data not available.
LAHORE DIVISION :	Fairly widespread rain fell on two days.
RAWALPINDI DIVISION :	Fairly widespread and local rain fell on one day each and scattered on three days.
SARGODHA DIVISION :	Local rain fell on three days.
MULTAN DIVISION :	Fairly widespread and local rain fell on one day each.
BAHAWALPUR DIVISION :	Scattered rain fell on two days.
PESHAWAR DIVISION :	Local and scattered rain fell on two days each.
D. I. KHAN DIVISION :	Scattered rain fell on three days.
QUETTA DIVISION :	Scattered rain fell on one day.
KALAT DIVISION :	Weather remained dry.
KARACHI DIVISION :	Weather remained mainly dry.
HYDERABAD DIVISION :	Scattered rain fell on one day.
KHAIRPUR DIVISION :	Weather remained dry.
JUNAGADH	Data not available.

3. Based on data of stations having normals, the week's rainfall was in large excess in Dacca, Rawalpindi, Sargodha, Multan and D. I. Khan divisions, excess in Chittagong, Khulna and Lahore divisions, normal in Kalat and Khairpur divisions, deficient in Rajshahi, Peshawar and Quetta divisions, whereas no rain fell in Bahawalpur and Hyderabad divisions.

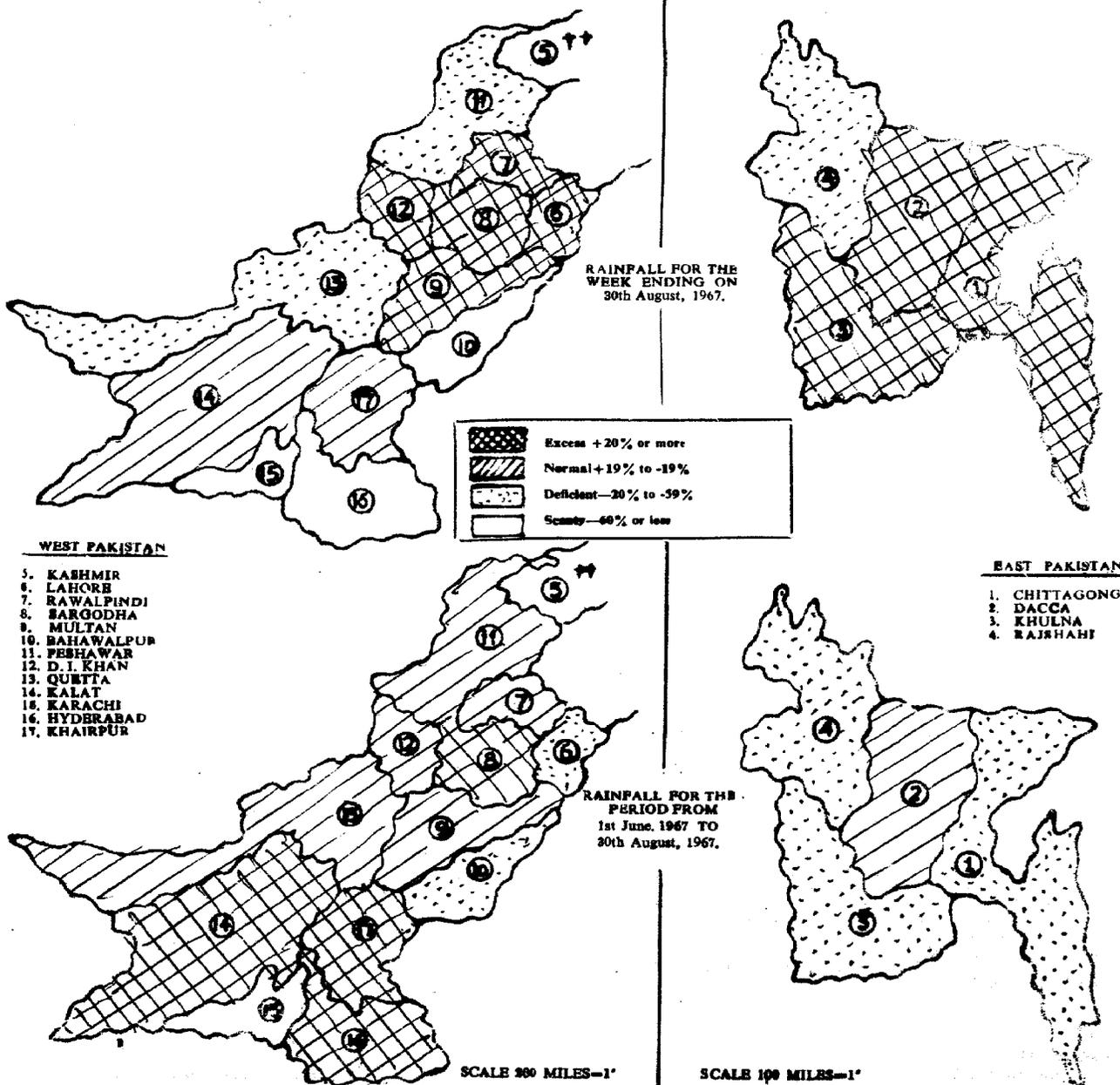
Rainfall for the period from 1st June 1967 to date was in large excess in Hyderabad division, excess in Sargodha, Kalat and Khairpur divisions, normal in Dacca, Rawalpindi, Multan, Peshawar, D. I. Khan and Quetta divisions, deficient in Chittagong, Khulna, Rajshahi, Lahore and Bahawalpur divisions.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June 1967 to-date.

# WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending the 30th August, 1967.			Rainfall for the Period from 1st June, 1967. to 30th August, 1967.			
	† Actual	Normal	* Excess or defect	† Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	4.8	3.9	+ 0.9	58.9	60.3	+ 1.4	- 22
2. Dacca	4.0	3.5	+ 0.5	38.6	42.1	- 3.3	- 8
3. Khulna	3.8	2.7	+ 1.1	29.6	42.3	- 12.7	- 30
4. Rajshahi	2.1	3.1	- 1.1	32.5	40.7	- 8.2	- 21
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	2.1	1.4	+ 0.7	9.7	16.0	- 6.3	- 39
7. Rawalpindi	3.3	1.9	+ 1.5	24.9	24.6	+ 0.3	+ 1
8. Bargothe	3.5	0.6	+ 2.9	9.1	5.7	+ 3.4	+ 59
9. Multan	1.8	0.2	+ 1.6	4.3	5.3	- 1.0	- 19
10. Bahawalpur	0	0.2	- 0.2	2.5	4.5	- 2.0	- 45
11. Peshawar	0.4	0.6	- 0.2	6.1	6.6	- 0.5	- 7
12. D. I. Khan	0.8	0.2	+ 0.6	3.6	4.1	- 0.5	- 12
13. Quetta	0.1	0.2	- 0.1	2.5	2.3	+ 0.2	+ 8
14. Kalat	0	0	0	1.4	1.0	+ 0.3	+ 33
15. Karachi	—	—	—	—	—	—	—
16. Hyderabad	0	0.4	- 0.4	10.5	5.8	+ 4.7	+ 82
17. Khairpur	0	0	0	3.7	2.3	+ 1.4	+ 59
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. ††Data not available.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 6th September, 1967.

-- o:O:o --

## SUMMARY OF WEATHER

**EAST PAKISTAN:-** An easterly low pressure area which entered into the north east Bay of Bengal on the first day of week, concentrated into a depression, by the evening of the 2nd with its centre about 25 miles southeast of Saugor Island. The depression deepened, crossed North Orissa and West Bengal coast on the morning of the 3rd and gradually moved away north westwards. Under its influence rain or thundershowers occurred locally over the whole Province on the first two days of the week and fairly widespread to widespread rain or thundershowers occurred in Chittagong, Dacca and Khulna divisions with locally heavy to very heavy falls in Chittagong division during the last five days of the week. Rajshahi division received scattered to local showers during the period.

Chief amounts of rainfall recorded were:- Cox's Bazar 2" on the 2nd, 4" on the 3rd and the 5th and 7th on the 4th; Maijdi Court 3" on the 3rd; Maijdi Court, Comilla 2" each on the 4th; Pabna 3" and Jessore 2" on the 5th and Maijdi Court and Mymensingh 2" each on the 6th.

Day temperatures were slightly to appreciably above normal in Chittagong and Rajshahi divisions on the 1st and over the whole Province on the 2nd and were to the same extent below normal over the Province on the last three days of the week.

**WEST PAKISTAN:-** Last week's western disturbance north of Peshawar division moved away across the north of Kashmir. Simultaneously incursion of moist easterlies trough place into the northern division caused fairly widespread rain or thundershowers occurred in Lahore and Sargodha divisions on the 31st and a few thunderstorms in Peshawar division on the 31st and the 1st. The shallow incursion of the moist easterlies continued and caused scattered to local thunder rain in Rawalpindi division on the 2nd, 3rd and the 4th; and in D. I. Khan division and Lahore division on the last day. A few falls of light rain or thunderstorms also occurred in Peshawar division between the 2nd and 5th. On the last day of the week, a trough of low pressure developed over West Rajasthan and Khairpur divisions and caused scattered thundershowers in Hyderabad division and a few thunderstorms in Khairpur division on the 6th.

Significant amounts of rainfall recorded were:- Lahore 1½" and Khushab 1" on the 31st and Umargot 1½" and Mithi 1" on the 6th. Day temperatures were slightly to appreciably below normal in the northern divisions on the 31st and the 1st and slightly so in Multan, Peshawar and D. I. Khan divisions on the 5th. These were slightly above normal Hyderabad divisions on the 1st, in Rawalpindi divisions and in the southern divisions on the 2nd and practically over the whole Province on the 6th.

2. CHITTAGONG DIVISION :	Fairly widespread rain fell on two days and local on five days.
DACCA DIVISION :	Widespread, local and scattered rain fell on one day each and fairly widespread on four days.
KHULNA DIVISION :	Widespread rain fell on three days and local on two days and scattered on one day each.
RAJSHAHI DIVISION :	Fairly widespread and scattered rain fell on one day each and local on four days.
KASHMIR :	Data not available.
LAHORE DIVISION :	Fairly widespread and local rain fell on one day each.
RAWALPINDI DIVISION :	Scattered rain fell on three days.
SARGODHA DIVISION :	Fairly widespread rain fell on one day.
MULTAN DIVISION :	} Weather remained dry.
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Weather remained mainly dry.
D. I. KHAN DIVISION :	Scattered rain fell on one day.
QUETTA DIVISION :	} Weather remained dry.
KALAT DIVISION :	
KARACHI DIVISION :	
HYDERABAD DIVISION :	Scattered rain fell on one day.
KHAIRPUR DIVISION :	Weather remained dry.
JUNAGADH	Data not available.

3. Based on the data of stations having normals, the week's rainfall was in excess in Chittagong division, normal in Dacca, Khulna, Lahore, Sargodha and Kalat divisions, scanty in Rajshahi and Rawalpindi divisions, whereas no rain fell elsewhere in West Pakistan.

Rainfall for the period from 1st June 1967 to date was in large excess in Hyderabad division, excess in Sargodha, Kalat and Khairpur divisions, normal in Chittagong, Dacca, Rawalpindi, Peshawar, D. I. Khan and Quetta division and deficient elsewhere in the country.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June 1967 to date.

N. A. QURESHI

Karachi-11

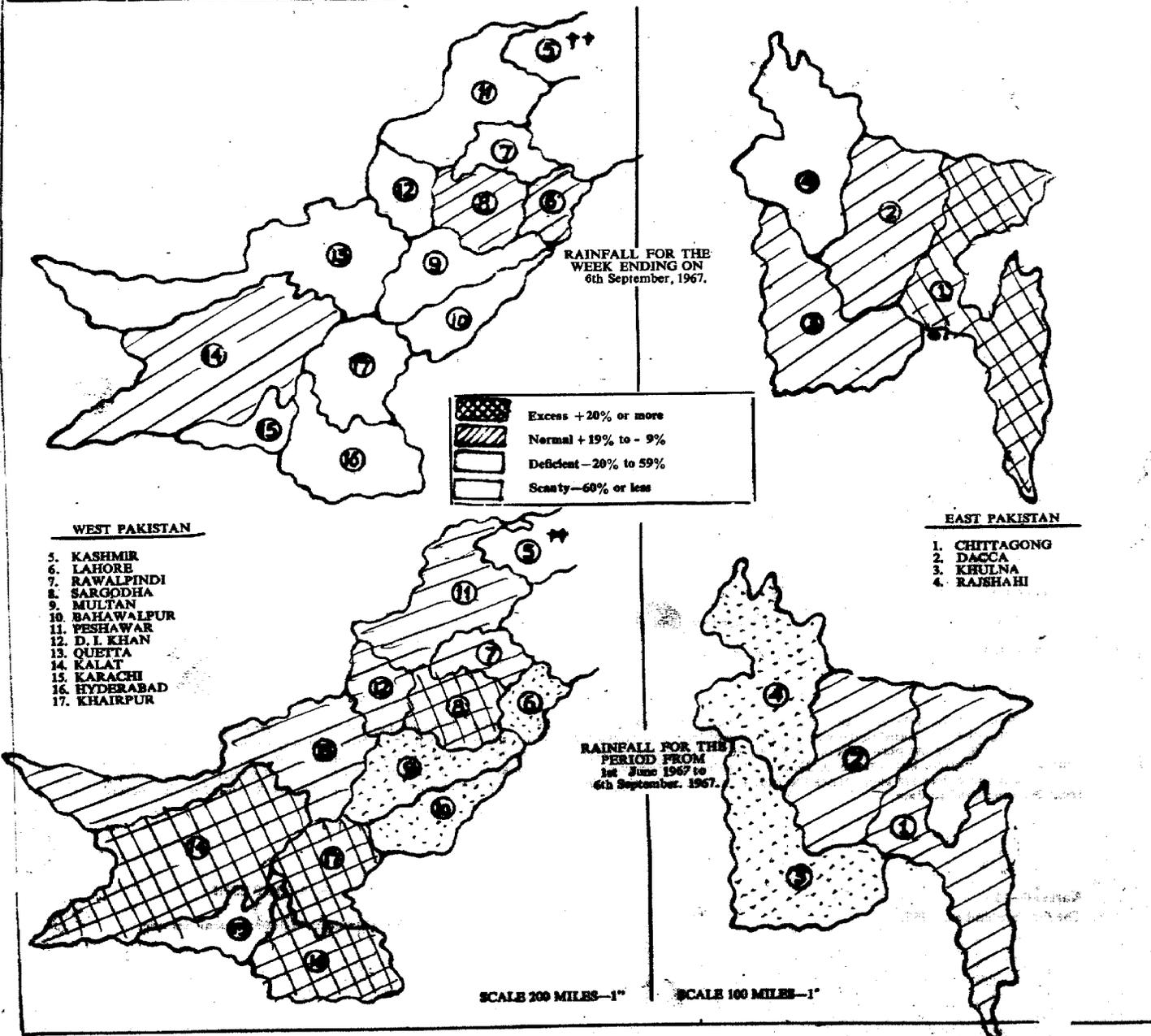
The 6th September, 1967.

for Director, Meteorological Service.

# WEEKLY WEATHER REPORT

DIVISION	Rainfall for week ending the 6th September 1967.			Rainfall for the Period from 1st June, 1967 to 6th September 1967.			
	† Actual	Normal	*Excess or defect	*Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	5.9	3.0	+ 2.1	64.9	64.2	+ 0.7	+ 1
2. Dacca	2.8	2.5	+ 0.3	41.6	44.6	- 2.1	- 5
3. Khulna	2.7	2.5	+ 0.3	32.4	44.8	- 12.4	- 28
4. Rajshahi	0.8	3.2	- 2.4	33.3	43.9	- 10.6	- 24
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	1.0	1.1	- 0.1	10.7	17.1	- 6.5	- 38
7. Rawalpindi	0.3	1.7	- 1.4	25.3	26.3	- 1.1	- 4
8. Sargodha	0.5	0.6	0	9.6	6.3	+ 3.3	+ 53
9. Multan	0	0.2	- 0.2	4.3	5.5	- 1.2	- 22
10. Bahawalpur	0	0.1	- 0.1	2.5	4.6	- 2.1	- 46
11. Peshawar	0	0.6	- 0.6	6.1	7.2	- 1.1	- 15
12. D. I. Khan	0	0.2	- 0.2	3.6	4.3	- 0.7	- 17
13. Quetta	0	0.1	- 0.1	2.5	2.4	+ 0.1	+ 4
14. Kalat	0	0	0	1.4	1.0	+ 0.3	+ 33
15. Karachi	0	0.1	- 0.1	—	—	—	—
16. Hyderabad	0	0.3	- 0.3	10.5	6.1	+ 4.4	+ 72
17. Khairpur	0	0	0	3.7	2.3	+ 1.4	+ 57
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01\*  
 † Rainfall of stations having no normals is not included. Data not available.



## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 13th September, 1967.

—o:O:o—

### SUMMARY OF WEATHER

**EAST PAKISTAN:-** An easterly low pressure area entered into the north Bay of Bengal on the 9th and traveling across it moved to Chota Nagpur by the 12th. Monsoon temporarily strengthened under its influence and caused fairly widespread to widespread rain or thundershowers in the Province on the 10th in Khulna division on the 8th and the 11th and in Chittagong division on the 9th. Monsoon was otherwise generally weak over the Province.

Chief amounts of rainfall recorded were:- Rangamati and Jessore  $1\frac{1}{2}$ " each on the 8th; Majdee Court 4" on the 9th; Dinajpur 4" on the 10th; Rangamati, Majdee Court and Satkhira  $1\frac{1}{2}$ " each on the 11th and Sylhet and Rangpur  $1\frac{1}{2}$ " each on the 12th.

Day temperatures were slightly to appreciably above normal in Khulna and Rajshahi divisions on the 7th and the 11th and over the whole Province on the 8th and the 9th. These were slightly below normal in Chittagong and Khulna divisions on the 10th.

**WEST PAKISTAN:-** Last week's trough of low pressure over West Rajasthan and Khairpur divisions filled up over there. A depression, that travelled across central India after weakening lay as a well marked low pressure area over East Rajasthan on the first day of the week and travelling northwestwards filled up over northwest Rajasthan by the 9th. Under its influence scattered to local rain or thundershowers occurred in Lahore, Rawalpindi and Hyderabad divisions on the 7th and in Kalat, Hyderabad and Khairpur divisions on the 8th and a few falls of light rain or thunderstorms in Rawalpindi. Peshawar, Hyderabad and Khairpur divisions on the 9th. Thereafter, with the passage of a western disturbance across the north of the province, the seasonal trough of low pressure over West Pakistan became well marked and caused scattered thundershowers in Rawalpindi division on the 10th and the 12th and a few thunderstorms in Peshawar divisions by the 10th and the 11th and in Rawalpindi division on the 11th and the 13th.

Significant amounts of rainfall recorded were:- Sialkot 1" on the 7th; Hyderabad 1" on the 8th and Muree  $\frac{3}{4}$ " on the 12th.

Day temperatures were slightly to appreciably above normal in Quetta, Kalat and Peshawar divisions practically throughout the week and only in Sargodha division on the 7th and the 11th. These were slightly to appreciably below normal in Lahore, Multan and Bahawalpur divisions on the 8th and the 9th and in Hyderabad and Khairpur divisions between the 9th and the 13th.

2. CHITTAGONG DIVISION :	Fairly widespread rain fell on one day local on five days and scattered on one day.
DACCA DIVISION :	Widespread rain fell on one day local on two days and scattered on three days.
KHULNA DIVISION :	Widespread and scattered rain fell on two days each and fairly widespread on one day.
RAJSHAHI DIVISION :	Fairly widespread rain fell on one day and local on four days.
KASHMIR DIVISION :	Data not available.
LAHORE DIVISION :	Local rain fell on one day.
RAWALPINDI DIVISION :	Scattered rain fell on three days.
SARGODHA DIVISION :	Weather remained dry.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Weather remained mainly dry.
D.I. KAHN DIVISION :	Weather remained dry.
QUETTA DIVISION :	
KALAT DIVISION :	Scattered rain fell on one day.
KARACHI DIVISION :	Weather remained dry.
HYDERABAD DIVISION :	Local and scattered rain fell on one day each.
KHAIRPUR DIVISION :	Rainfall was local on one day.
JUNAGADH	Data not available.

3. Based on the data of stations having normals, the week's rainfall was in large excess in Hyderabad and Khairpur divisions normal in Chittagong, Khulna and Rajshahi divisions, deficient in Dacca and Lahore divisions and scanty in Rawalpindi division. No rain fell elsewhere in West Pakistan.

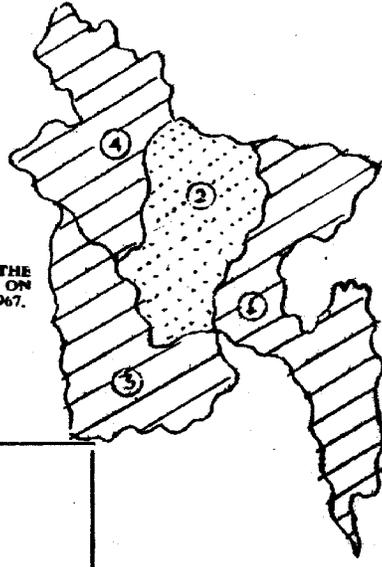
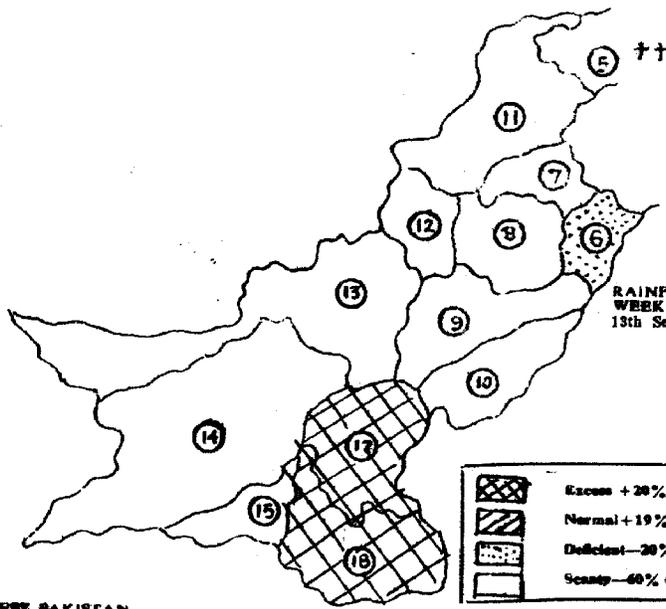
Rainfall for the period from 1st June 1967 to-date was in large excess in Hyderabad division, excess in Khairpur, Kalat and Sargodha divisions, normal in Chittagong, Dacca, Rawalpindi, Peshawar and Quetta divisions and deficient elsewhere in the country.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June 1967 to-date.

# WEEKLY WEATHER REPORT

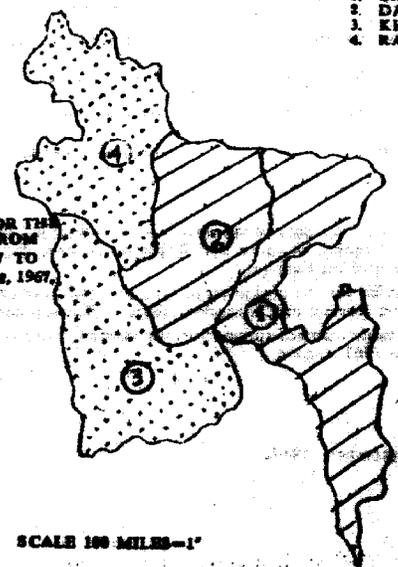
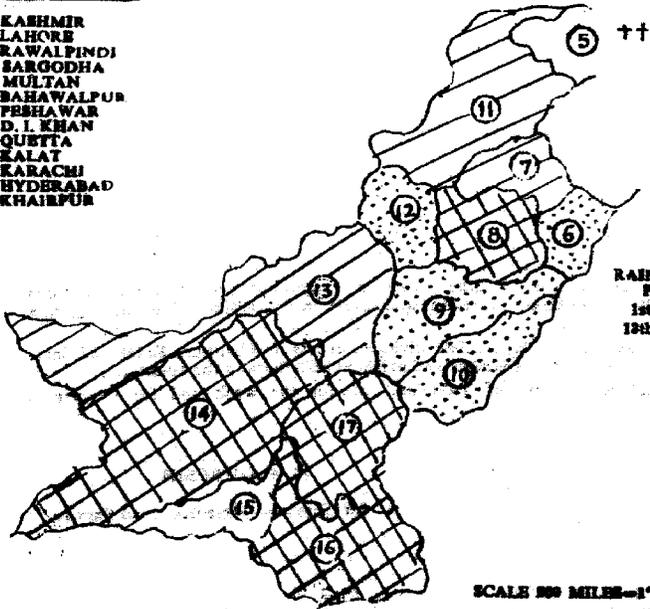
DIVISION.	Rainfall for week ending the 13th September, 1967.			Rainfall for the Period from 1st June, 1967. to 13th September, 1967.			
	† Actual	Normal	*Excess or defect	† Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	2.4	2.9	- 0.5	67.3	67.8	+ 0.3	+ 1
2. Dacca	1.3	2.7	- 1.3	42.9	47.3	- 4.4	- 9
3. Khulna	1.8	1.9	- 0.1	34.2	46.7	- 12.5	- 27
4. Rajshahi	2.9	2.8	+ 0.1	36.2	46.7	- 10.6	- 23
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0.5	0.8	- 0.3	11.0	17.9	- 6.9	- 39
7. Rawalpindi	0.5	1.2	- 0.7	25.7	27.5	- 1.8	- 6
8. Sargodha	0	0.4	- 0.4	9.6	6.7	+ 2.9	+ 44
9. Multan	0	0.2	- 0.2	4.3	5.7	- 1.4	- 24
10. Bahawalpur	0	0.1	- 0.1	2.5	4.6	- 22.2	- 47
11. Peshawar	0	0.4	- 0.4	6.1	7.6	- 1.5	- 19
12. D. I. Khan	0	0.3	- 0.3	3.6	4.6	- 1.0	- 22
13. Quetta	0	0.1	- 0.1	2.5	2.5	- 0	0
14. Kalat	0	0	0	1.4	1.1	+ 0.3	+ 30
15. Karachi	0	0.1	- 0.1	—	—	—	—
16. Hyderabad	0.7	0.3	+ 0.4	11.3	6.4	+ 4.9	+ 75
17. Khairpur	0.1	0	+ 0.1	3.8	2.4	+ 1.4	+ 59
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. †† Data not available.



- 5. KASHMIR
- 6. LAHORE
- 7. RAWALPINDI
- 8. SARGODHA
- 9. MULTAN
- 10. BAHAWALPUR
- 11. PESHAWAR
- 12. D. I. KHAN
- 13. QUETTA
- 14. KALAT
- 15. KARACHI
- 16. HYDERABAD
- 17. KHAIRPUR

- 1. CHITTAGONG
- 2. DACCA
- 3. KHULNA
- 4. RAJSHAHI



SCALE 500 MILES-1"

SCALE 100 MILES-1"

## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 20th September, 1967.

—:O:O:—

### SUMMARY OF WEATHER

**EAST PAKISTAN:** Last week's easterly low pressure area over Chota Nagpur moved away westnorthwards. It was closely followed by another easterly low pressure area, which entered the north Bay of Bengal on the 15th and after crossing the Orissa coast, slowly moved northwards and filled up over Bihar by the end of the week. In its association monsoon temporarily strengthened causing fairly widespread and locally heavy to very heavy rain or thundershowers over the Province between the 17th and the 19th. Scattered to local rain or thundershowers occurred otherwise over the Province during the remaining days of the week.

Chief amounts of rainfall recorded during the week were: Cox's Bazar 3" on the 17th; Khulna 4" and Barisal 3" on the 18th and Barisal and Dinajpur 4" each on the 19th.

Day temperatures were slightly above normal in the Province on the 15th and the 16th and slightly to appreciably below normal over the Province between the 17th and the 18th and the 19th and only in Rajasthan division on the 20th.

**WEST PAKISTAN:** A western disturbance moved across the north of the Province during the first three days of the week. Simultaneously incursion of monsoon easterlies took place into the northern divisions following the southward shift of the monsoon trough. As a consequence, fairly widespread rain or thundershowers occurred in Rawalpindi and Sargodha divisions and scattered to local in Multan, Bahawalpur, D. I. Khan, Lahore and Peshawar divisions on the 16th, in the last two named divisions and in Rawalpindi division on the 14th; in Lahore division on the 15th and only in Khairpur division on the 17th. A few falls of light rain or thundershowers also occurred in Rawalpindi and Peshawar divisions on the 15th and in these and in Lahore and Quetta divisions on the 17th. Monsoon withdrew from the Province on the 17th but in association with the passage of another western disturbance across the north of the Province local thundershowers occurred in Peshawar division on the 19th, scattered in Bahawalpur division on the 18th and a few falls of light rain or thundershowers in Multan, Peshawar and Quetta divisions on the 18th and in Rawalpindi and D. I. Khan divisions on the 19th. According to newspaper reports the rural area southeast of Peshawar city was by a severe hailstorm on the afternoon of the 18th and the same evening Rawalpindi town was hit by a 55 M.P.H. dustorm blowing down television serials and bill boards.

Significant amounts of rainfall recorded were:- Murree 3", Sialkot and Haripur 2" each on the 14th; Haripur 1½", Lahore, Murree, Sargodha and D. I. Khan 1" each on the 16th.

Day temperatures were markedly to considerably below normal in Lahore, Sargodha, Multan and D. I. Khan divisions and slightly to appreciably so elsewhere in the northern and central divisions on the 17th, in the whole Province outside Kalat and Karachi division on the 18th and the 19th, in the northern divisions and in Khairpur division on the 20th and in Lahore, Multan, Hyderabad and Khairpur divisions on the first three days of the week.

2. CHITTAGONG DIVISION :	Fairly widespread and local rain fell on two days each and scattered on three days.
DACCA DIVISION :	Widespread rain fell on two days fairly widespread and local on one day each and scattered on two days.
KHULNA DIVISION :	Widespread, fairly widespread and local rain fell on two days each and scattered on one day.
RAJSHAHI DIVISION :	Fairly widespread rain fell on four days local and scattered on one day each.
KASHMIR DIVISION :	Data not available.
LAHORE DIVISION :	Local rain fell on two days and scattered on one day.
RAWALPINDI DIVISION :	Fairly widespread and local rain fell on one day each.
SARGODHA DIVISION :	Widespread rain fell on one day.
MULTAN DIVISION :	Rainfall was local on one day.
BAHAWALPUR DIVISION :	Scattered rain fell on two days.
PESHAWAR DIVISION :	Local rain fell on three days.
D. I. KHAN DIVISION :	Scattered rain fell on one day.
QUETTA DIVISION :	Weather remained mainly dry.
KALAT DIVISION :	} Weather remained dry.
KARACHI DIVISION :	
HYDERABAD DIVISION :	
KHAIRPUR DIVISION :	Scattered rain fell on one day.
JUNAGADH :	Data not available.

3. Based on the data of stations having normals, the week's rainfall was in large excess in Khulna, Rajshahi, Lahore, Rawalpindi, Sargodha, D. I. Khan and Khairpur divisions; excess in Chittagong and Peshawar division, normal in Dacca division, scanty in Multan and Quetta divisions whereas no rain fell elsewhere in West Pakistan.

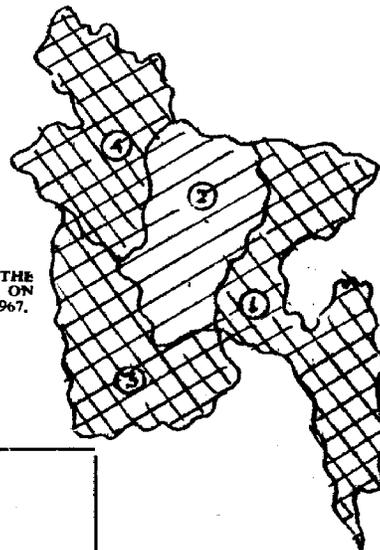
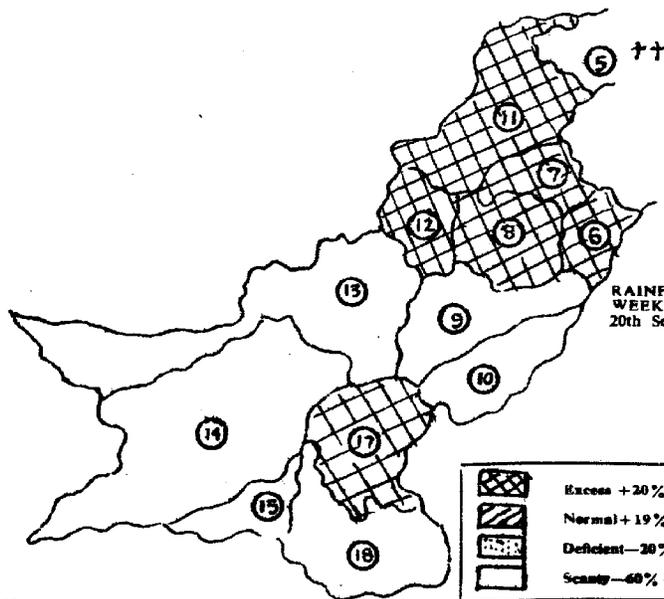
Rainfall for the period from 1st June 1967 to-date was in large excess in Hyderabad and Khairpur divisions, excess in Sargodha and Kalat divisions normal in Chittagong, Dacca, Rajshahi, Rawalpindi, Peshawar, D. I. Khan and Quetta divisions and deficient in Khulna, Lahore, Multan and Bahawalpur.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June 1967 to-date.

# WEEKLY WEATHER REPORT

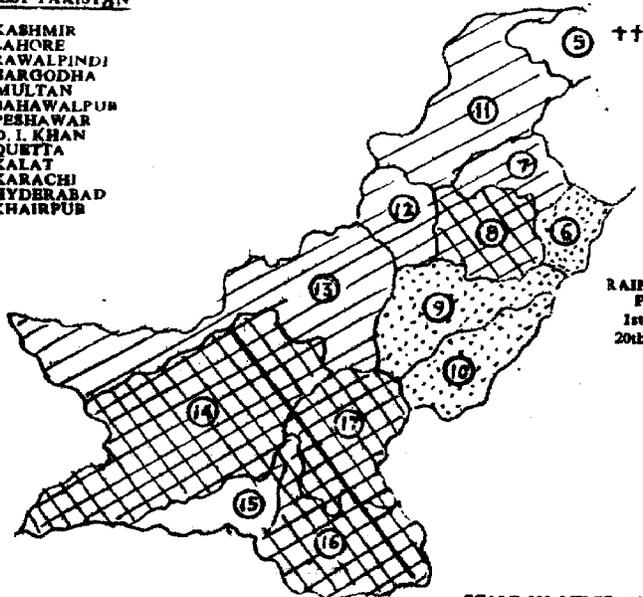
DIVISION.	Rainfall for week ending the 20th September, 1967.			Rainfall for the Period from 1st June, 1967. to 20th September, 1967.			
	† Actual	Normal	* Excess or defect	† Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	3.5	2.8	+ 0.7	70.9	70.0	+ 0.9	+ 1
2. Dacca	3.1	2.8	+ 0.3	46.1	50.1	- 4.1	- 8
3. Khulna	4.4	2.0	+ 2.3	38.5	48.7	- 10.2	- 21
4. Rajshahi	5.7	2.5	+ 3.2	41.8	49.2	- 7.4	- 15
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	1.6	0.7	+ 0.9	12.6	18.6	- 6.0	- 32
7. Rawalpindi	2.3	1.1	+ 1.1	28.0	28.6	- 0.6	- 2
8. Sargodha	0.7	0.3	+ 0.4	10.3	7.0	+ 3.3	+ 48
9. Multan	0.2	0.3	- 0.2	4.5	6.0	- 1.5	- 25
10. Bahawalpur	0	0	0	2.5	4.7	- 2.2	- 47
11. Peshawar	0.4	0.3	+ 0.1	6.5	7.9	- 1.4	- 18
12. D. I. Khan	0.5	0.2	+ 0.4	4.1	4.7	- 0.6	- 13
13. Quetta	0	0.1	0	2.5	2.5	0	- 1
14. Kalat	0	0	0	1.4	1.1	+ 0.3	+ 29
15. Karachi	0	0.1	- 0.1	—	—	—	—
16. Hyderabad	0	0.1	- 0.1	11.3	6.6	+ 4.7	+ 72
17. Khairpur	0.3	0	+ 0.3	4.1	2.4	+ 1.7	+ 71
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"  
 † Rainfall of stations having no normals is not included. ††Data not available.



**WEST PAKISTAN**

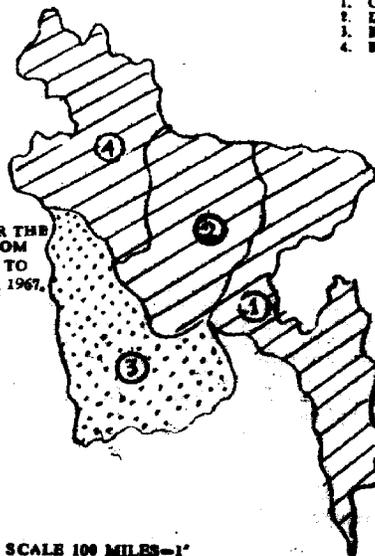
5. KASHMIR
6. LAHORE
7. RAWALPINDI
8. SARGODHA
9. MULTAN
10. BAHAWALPUR
11. PESHAWAR
12. D. I. KHAN
13. QUETTA
14. KALAT
15. KARACHI
16. HYDERABAD
17. KHAIRPUR



SCALE 300 MILES=1"

**EAST PAKISTAN**

1. CHITTAGONG
2. DACCA
3. KHULNA
4. RAJSHAHI



SCALE 100 MILES=1"

## WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 27th September, 1967.

---o:O:o---

### SUMMARY OF WEATHER

**EAST PAKISTAN:-** Local to fairly widespread rain or thundershower occurred in the Province, during the first three days of the week. An easterly low pressure area, entered the northeast Bay of Bengal on the 25th and monsoon became weak during the middle of the week. The low pressure area moved to the northwest Bay of Bengal and concentrated into a depression on the morning of the 27th, centred near Lat 20½°N and Long. 89°E. In its association monsoon became active and caused fairly widespread rain or thundershowers in Chittagong, Dacca and Khulna divisions and scattered thundershowers in Rajshahi division on the last two days of the week. A few very heavy falls of rain were recorded in Chittagong division during this period.

Significant amounts of rainfall recorded were:- Sylhet, Pabna and Mymensingh 3" each on the 22nd; Brahmanbaria 5" on the 26th and Majdee Court 6" on the 27th.

Day temperatures were slightly above normal practically in the whole Province on the 22nd, 25th and the 26th and slightly to appreciably so in Dacca division on the 21st, in Khulna and Rajshahi divisions on the 23rd, in Chittagong and Khulna divisions on the 24th and only in Khulna division on the 27th.

**WEST PAKISTAN:-** In association with the passage of a western disturbance to the north of the Province during the 2nd half of the week thundershowers were fairly widespread in Peshawar division on the 26th and scattered to local in Rawalpindi division on the last two days of the week and in Peshawar division on the 25th and 27th. The weather remained dry elsewhere over the Province.

Chief amounts of rainfall recorded were:- Chakdara 3/4" on the 25th; Muree 2" and Rawalpindi 3/4" on the 26th and Kakul 3/4" on the 27th.

Day temperatures were slightly to appreciably above normal in Quetta, Kalat and Peshawar divisions between the 21st and the 24th in these and in Lahore and Rawalpindi divisions on the 25th. These were slightly to appreciably below normal in Khairpur division on the 21st, in Khairpur, Hyderabad and Bahawalpur divisions on the 23rd and in the northern divisions on the 26th and the 27th.

2. CHITTAGONG DIVISION :	Fairly widespread rain fell on two days, local on three days and scattered on one day.
DACCA DIVISION :	Widespread rain fell on one day, fairly widespread and local on two days each.
KHULNA DIVISION :	Fairly widespread and local rain fell on two days each and scattered on three days.
RAJSHAHI DIVISION :	Widespread rain fell on one day, fairly widespread on two days and scattered on three days.
KASHMIR :	Data not available.
LAHORE DIVISION :	Weather remained dry.
RAWALPINDI DIVISION :	Local and scattered rain fell on one day each.
SARGODHA DIVISION :	} Weather remained dry.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Fairly widespread, local and scattered rain fell on day each.
D. I. KHAN DIVISION :	Weather remained mainly dry.
QUETTA DIVISION :	} Weather remained dry.
KALAT DIVISION :	
KARACHI DIVISION :	
HYDERABAD DIVISION :	
KHAIRPUR DIVISION :	
JUNAGADH :	Data not available.

3. Based on the data of stations having normals, the week's rainfall was in large excess in Chittagong and Rawalpindi divisions, normal elsewhere in East Pakistan scanty in D. I. Khan division, whereas no rain fell elsewhere in West Pakistan.

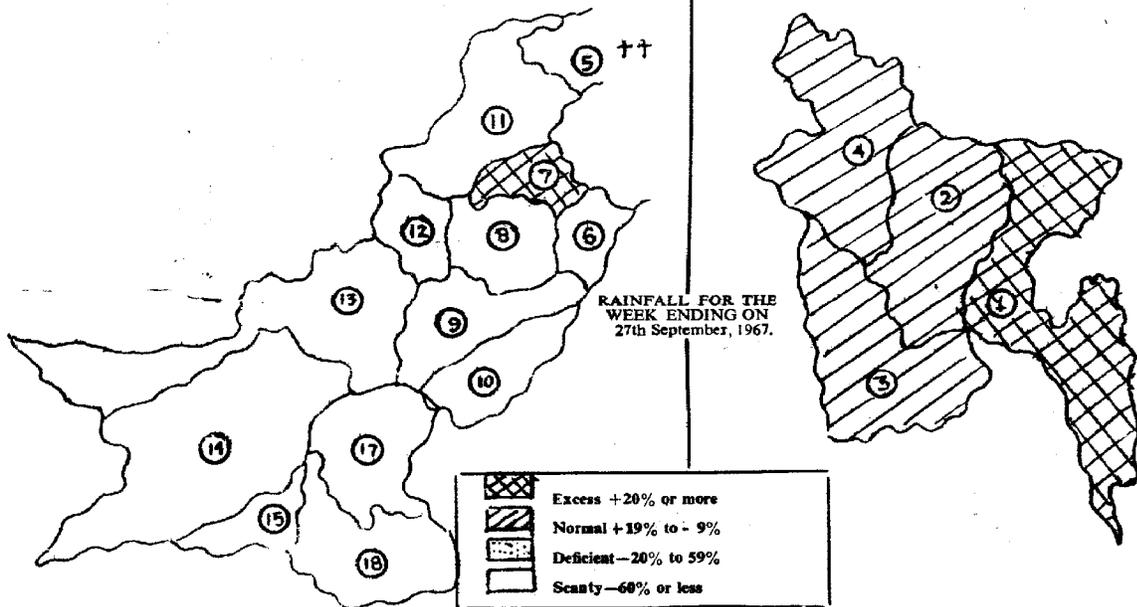
Rainfall for the period from 1st June 1967 to date was in large excess in Hyderabad and Khairpur divisions, excess in Sargodha and Kalat division, normal in Chittagong, Dacca, Rajshahi, Rawalpindi, Peshawar, D. I. Khan and Quetta divisions and deficient in Khulna, Lahore, Multan and Bahawalpur divisions.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June 1967 to date.

# WEEKLY WEATHER REPORT

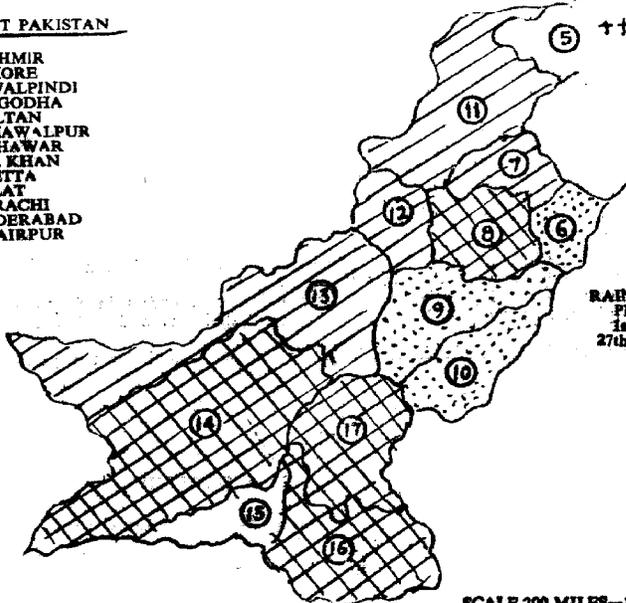
DIVISION	Rainfall for week ending the 27th September 1967.			Rainfall for the Period from 1st June, 1967 to 27th September 1967.			
	† Actual	Normal	*Excess or defect	*Actual	Normal	Excess or defect	
						Inches	Percent
1. Chittagong	4.4	2.7	+ 1.7	75.3	72.6	+ 2.6	+ 4
2. Dacca	2.3	2.3	+ 0.1	48.4	52.4	- 4.0	- 8
3. Khulna	1.9	2.2	- 0.3	4.05	50.9	- 10.4	- 20
4. Rajshahi	2.2	2.7	- 0.4	44.1	51.9	- 7.8	- 15
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0	0.3	- 0.3	12.6	18.9	- 6.3	- 33
7. Rawalpindi	1.4	0.7	+ 0.7	29.3	29.3	0	Normal
8. Sargodha	0	0.2	- 0.2	10.3	7.2	+ 3.1	+ 44
9. Multan	0	0.2	- 0.2	4.5	6.2	- 1.7	- 28
10. Bahawalpur	0	0	0	2.5	4.7	- 2.2	- 47
11. Peshawar	0.2	0.2	0	6.7	8.1	- 1.4	- 17
12. D. I. Khan	0	0.2	- 0.2	4.1	5.0	- 0.8	- 16
13. Quetta	0	0	0	2.5	2.5	0	- 1
14. Kalat	0	0	0	1.4	1.1	+ 0.3	+ 27
15. Karachi	0	0	- 0	—	—	—	—
16. Hyderabad	0	0.1	- 0.1	11.3	6.6	+ 4.7	+ 70
17. Khairpur	0	0.1	- 0.1	4.1	2.5	+ 1.7	+ 67
18. Junagadh	—	—	—	—	—	—	—

\*In the calculation of excesses and defects, and their percentages, rainfall figures are taken correct to 0.01"†  
 † Rainfall of stations having no normals is not included. Data not available.



**WEST PAKISTAN**

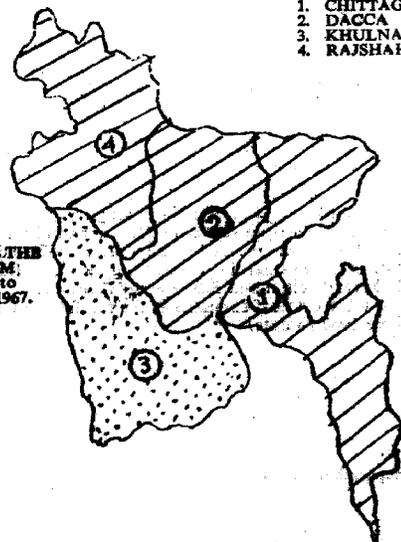
- 5. KASHMIR
- 6. LAHORE
- 7. RAWALPINDI
- 8. SARGODHA
- 9. MULTAN
- 10. BAHAWALPUR
- 11. PESHAWAR
- 12. D. I. KHAN
- 13. QUETTA
- 14. KALAT
- 15. KARACHI
- 16. HYDERABAD
- 17. KHAIRPUR



SCALE 200 MILES—1"

**EAST PAKISTAN**

- 1. CHITTAGONG
- 2. DACCAs
- 3. KHULNA
- 4. RAJSHAHI



SCALE 100 MILES—1"