

WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 1st May, 1963.

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SUMMARY OF WEATHER



EAST PAKISTAN : The westerly low pressure wave moved in close succession across the northern parts of the province between the 26th and the 30th. The last one was active and caused fairly widespread to widespread rain or thundershowers in Dacca, Khulna and Rajshahi divisions and scattered in Chittagong division on the 30th and scattered to local thunderstorms or showers over the province outside Dacca division on the preceding day. The remaining two caused mainly scattered to local thunder-rain activity in Dacca, Khulna and Rajshahi divisions between the 26th and the 28th.

A fourth westerly low pressure wave which lay over West Bengal on the last day of the week caused local rain or thundershowers in Rajshahi division on that day.

Noteworthy amounts of rainfall recorded were :—Dinajpur $1\frac{1}{2}$ " and Mymensingh $\frac{1}{2}$ " on the 26th, Jessore 1" on the 28th, Sylhet 1" on the 29th, Faridpur and Satkhira $1\frac{1}{4}$ " each and Dacca and Rangpur 1" each on the 30th and Bogra $\frac{1}{2}$ " on the 1st.

Day temperatures were appreciably above normal over the whole province during the first two days of the week and in Chittagong division on the 3rd day. These were appreciably below normal in Rajshahi division during the last two days.

WEST PAKISTAN : Two active western disturbances moved across the north of the province between the 27th and the 30th while the secondary associated with the first one moved across Quetta and Multan divisions. These caused fairly widespread thunderstorms or showers practically throughout the northern and central divisions and scattered over the rest of the province outside Karachi and Hyderabad divisions during the above period.

Two feeble western disturbances also moved across the north of West Pakistan while their associated troughs moved across the province at the beginning and towards the end of the week. These however caused mainly scattered thunderstorms or showers in Rawalpindi, Peshawar, D. I. Khan and Quetta divisions during the first two days and only in first two divisions on the last day.

Chief amounts of rainfall recorded were :—Chakdara $3\frac{1}{4}$ " on the 27th, Lyallpur and Landikotal $1\frac{1}{2}$ " each and Jhelum, Peshawar and Murree 1" on the 28th, Wana $1\frac{1}{2}$ " and Bannu 1" on the 29th and Chakdara and Cherat $1\frac{1}{2}$ " each on the 30th.

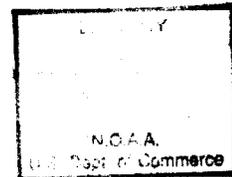
Day temperatures were appreciably below normal in west of the northern and central divisions during the first three days and markedly to considerably so over there and appreciably so elsewhere outside Karachi division during the last four days of the week.

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

3. Based on the data of stations having normals, the week's rainfall was in large excess in Lahore, Rawalpindi, Sargodha, Multan, Bahawalpur, Peshawar and Quetta divisions; in excess in Rajshahi division; normal in Khulna division and deficient in Dacca and D. I. Khan divisions whereas no rainfall elsewhere over the country.

Rainfall for the period from 1st April 1963 to-date was in large excess in Lahore, Multan, Quetta and Hyderabad divisions; in excess in Rajshahi, Rawalpindi, Sargodha and Peshawar divisions; normal elsewhere in East Pakistan and in Bahawalpur division; deficient in D. I. Khan and Kalat divisions and scanty in 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 April 1963 to-date.



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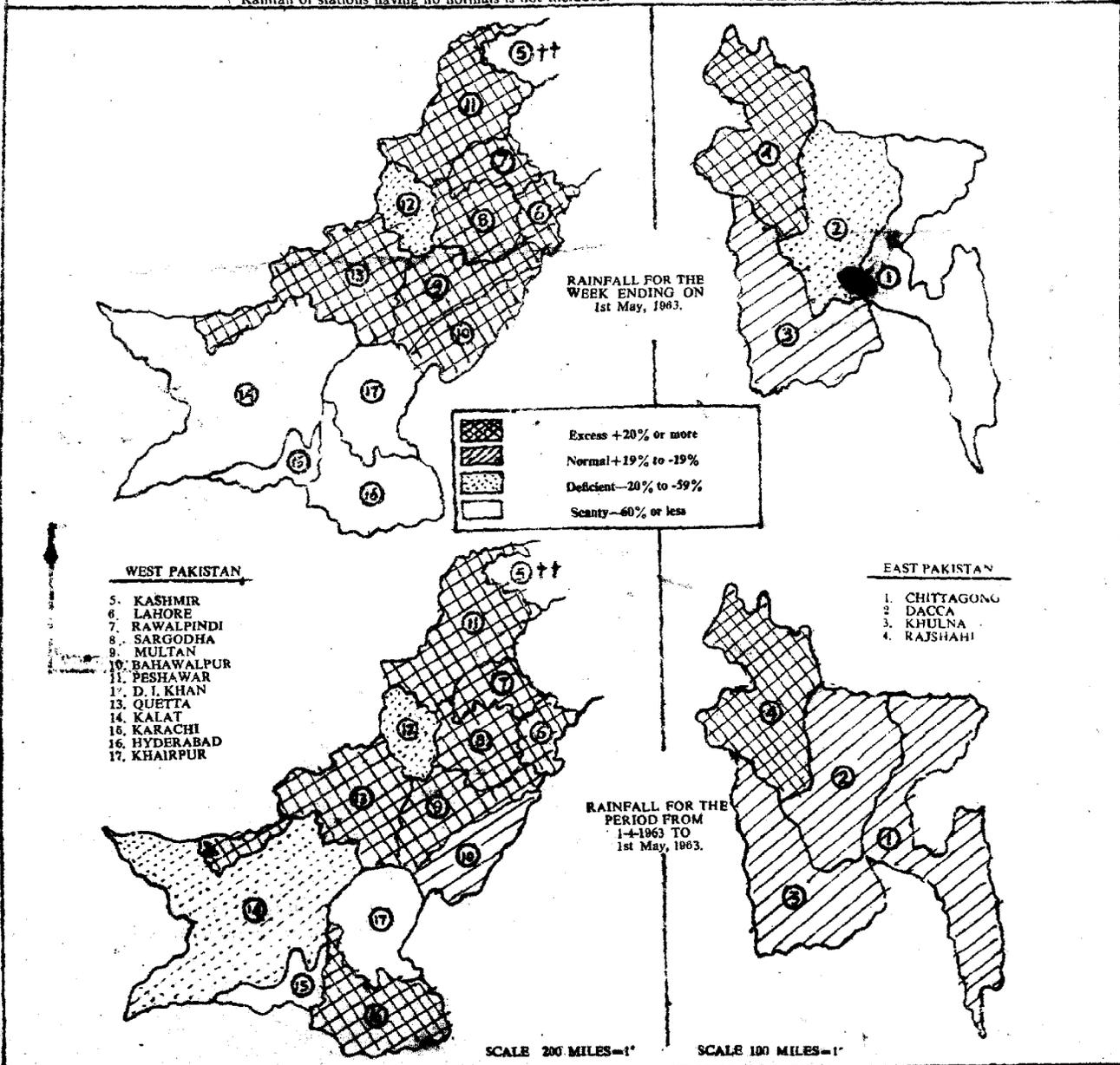
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March 28, 2002

WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending on 1st May, 1963.			Rainfall for Period from 1st April, 1963 to 1st May, 1963.			
	†Actual	Normal	*Excess or defect	†Actual	Normal	Excess or defect	
						Inches	Per-Cent
1. Chittagong	0	2.3	- 2.3	6.3	6.6	- 0.2	- 4
2. Dacca	1.3	1.8	- 0.5	4.7	5.5	- 0.8	- 15
3. Khulna	1.0	1.3	- 0.2	4.1	3.6	+ 0.4	+ 12
4. Rajshahi	1.3	1.1	+ 0.3	3.4	2.8	+ 0.6	+ 21
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0.5	0.2	+ 0.3	1.4	0.8	+ 0.6	+ 72
7. Rawalpindi	1.3	0.3	+ 0.9	4.1	3.1	+ 1.1	+ 36
8. Sargodha	0.8	0.1	+ 0.7	1.1	0.7	+ 0.3	+ 48
9. Multan	0.4	0.1	+ 0.3	1.9	0.3	+ 0.7	+ 219
10. Bahawalpur	0.2	0	+ 0.2	0.2	0.2	0	0
11. Peshawar	1.7	0.5	+ 1.3	3.0	2.3	+ 0.7	+ 33
12. D. I. Khan	1.0	0.1	0	0.8	1.0	- 0.2	- 23
13. Quetta	0.5	0.1	+ 0.4	1.9	0.8	+ 1.1	+ 138
14. Kalat	0	0	0	0.3	0.5	- 0.1	- 29
15. Karachi	0	0	0	0.2	0.4	- 0.2	- 61
16. Hyderabad	0	0.1	- 0.1	0.9	0.1	+ 0.8	+ 820
17. Khairpur	0	0	0	0	0.2	- 0.2	- 89
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 May, 1963.

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SUMMARY OF WEATHER

EAST PAKISTAN : Four western disturbances moved across the province during the week. These caused local to fairly widespread rain or thundershowers in Chittagong, Dacca and Rajshahi divisions practically throughout the week and in Khulna division during the last five days.

Noteworthy amounts of rainfall recorded during the week were : Mymensingh 3" and Comilla, Narayanganj and Dacca 2" each on the 2nd; Comilla 1½" on the 3rd; Rangamati and Rangpur 1½" each on the 4th; Rangamati 4" on the 5th; Barisal 2" on the 7th and Barisal 3" and Pabna 1½" on the 8th.

Day temperatures were generally markedly below normal over the province on the 3rd, 5th and 6th and in Rajshahi division on the 4th and appreciably so over the province on the last day of the week.

WEST PAKISTAN : A feeble western disturbance moved across the northern divisions of the province during the first two days of the week while its associated trough moved across Kalat and Khairpur divisions. It caused local rain or thundershowers in Quetta and Kalat divisions on the 2nd and scattered light rain or thundershowers in Multan, Peshawar and D. I. Khan divisions on the next day.

Two more western disturbances moved across the northern parts of the province during the last four days of the week while their secondaries moved across Quetta and Khairpur divisions. The first one was active and caused local to fairly widespread rain or thundershowers in Lahore, Rawalpindi, Sargodha, Peshawar, D. I. Khan and Quetta divisions on the 5th and scattered dust-storms in Kalat and Khairpur divisions on the 6th. The second one caused scattered to local rain or thundershowers in some of the northern and central divisions between the 7th and the 8th.

According to newspaper reports the thunderstorm which hit Rawalpindi in the early hours of 5th was accompanied with winds reaching 50 m. p. h. and uprooted trees and dilapidated houses.

Chief amounts of rainfall recorded were : Cherat, Kakul and Wana 1½" each on the 5th.

Day temperatures were generally markedly below normal over the whole province on the first two days and in some of the northern and western divisions on the last two days of the week. These were appreciably so during the rest of the week outside Karachi and Hyderabad divisions.

2. CHITTAGONG DIVISION :	Widespread rain fell on one day, fairly widespread on two days, local on three days and scattered on one day.
DACCA DIVISION :	Widespread and fairly widespread rain fell on two days each and scattered on one day.
KHULNA DIVISION :	Rainfall was fairly widespread on three days and local and scattered on one day each.
RAJSHAH DIVISION :	Rainfall was widespread on two days, fairly widespread and local on one day each and scattered on two days.
KASHMIR :	Data not available.
LAHORE DIVISION :	Local and scattered rain fell on one day each.
RAWALPINDI DIVISION :	Rainfall was widespread on one day.
SARGODHA DIVISION :	Rainfall was local on one day.
MULTAN DIVISION :	} Weather remained mainly dry.
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Fairly widespread and local rain fell on one day each.
D. I. KHAN DIVISION :	Rainfall was fairly widespread, local and scattered on one day each.
QUETTA DIVISION :	Local and scattered rain fell on two days each.
KALAT DIVISION :	Rainfall was local on one day.
KARACHI DIVISION :	} Weather remained dry.
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 Dacca, Lahore, Rawalpindi, Sargodha, Peshawar, D. I. Khan, Quetta and Kalat divisions, in excess in Khulna and Rajshahi divisions, normal in Chittagong division and scanty in Khairpur division whereas no rain fell elsewhere over the country.

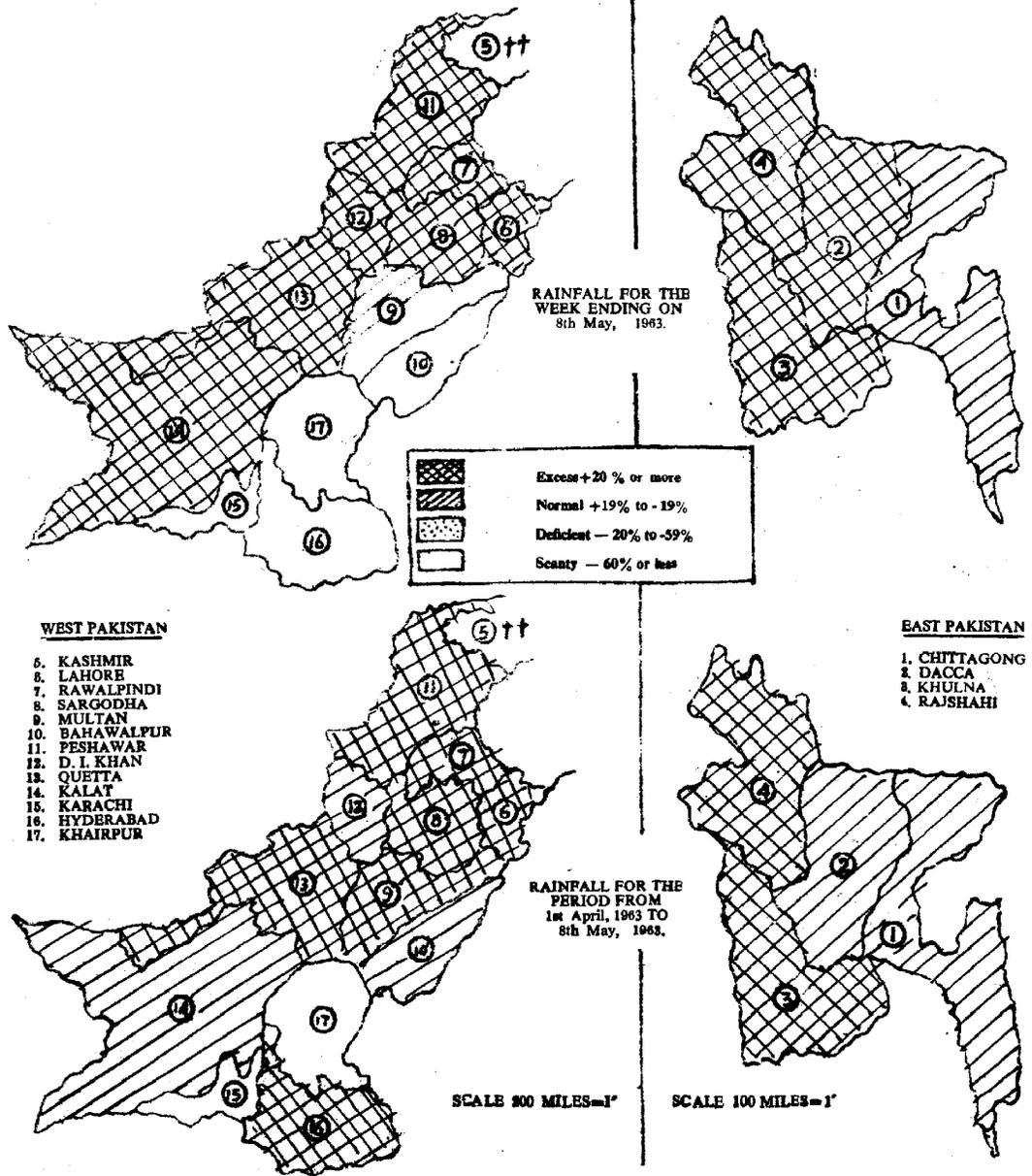
Rainfall for the period from 1st April, 1963 to-date was in large excess in Lahore, Multan, Peshawar, Quetta and Hyderabad divisions, in excess in Khulna, Rajshahi, Rawalpindi and Sargodha divisions, normal in Chittagong, Dacca, Bahawalpur, D. I. Khan and Kalat divisions and scanty in Karachi and Khairpur 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 April, 1963 to-date.

WEEKLY WEATHER REPORT

Division	Rainfall for week ending on 8th May, 1963.			Rainfall for Period from 1st April, 1963 1st April, 1963 to 8th May, 1963.			
	↑ Actual	Normal	*Excess or defect	↑ Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	2.8	2.5	+ 0.3	9.2	9.1	+ 0.1	+ 1
2. Dacca	3.4	1.9	+ 1.5	8.1	7.4	+ 0.7	+ 10
3. Khulna	2.3	1.6	+ 0.7	6.4	5.2	+ 1.1	+ 22
4. Rajshahi	2.0	1.3	+ 0.7	5.5	4.2	+ 1.3	+ 31
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0.3	0.2	+ 0.1	1.7	1.0	+ 0.7	+ 72
7. Rawalpindi	0.8	0.3	+ 0.5	5.0	3.4	+ 1.6	+ 48
8. Sargodha	0.2	0.1	+ 0.1	1.2	0.8	+ 0.5	+ 59
9. Multan	0	0.1	- 0.1	1.0	0.4	+ 0.6	+ 168
10. Bahawalpur	0	0	0	0.2	0.2	0	0
11. Peshawar	1.1	0.3	+ 0.8	4.1	2.5	+ 1.6	+ 62
12. D. I. Khan	0.2	0.1	+ 0.1	0.9	1.1	- 0.2	- 14
13. Quetta	0.3	0.1	+ 0.2	2.1	0.7	+ 1.4	+ 189
14. Kalat	0.1	0	+ 0.1	0.5	0.5	0	- 4
15. Karachi	0	0	0	0.2	0.4	- 0.2	- 61
16. Hyderabad	0	0.1	- 0.1	0.9	0.1	+ 0.8	+ 513
17. Khairpur	0	0.1	- 0.1	0	0.3	- 0.2	+ 88
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 May, 1963.

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SUMMARY OF WEATHER

EAST PAKISTAN: Two western disturbances moved across the province during the first four days of the week. These caused fairly widespread rain or thundershowers in Dacca and Khulna divisions on the 12th and only in the former division on the 10th and scattered to local elsewhere over the province during the first four days of the week except in Rajshahi division on the 9th and the 10th and in Dacca and Khulna divisions on the 11th. Scattered thunderstorms or showers also occurred in Chittagong division on the 13th.

A third western disturbance moving from Bihar to sub-Himalayan West Bengal on the 14th and the 15th caused local to fairly widespread rain or thundershowers in Rajshahi division and scattered in Chittagong division between the 14th and the 15th. Chief amounts of rainfall recorded were:- Barisal 1½" on the 9th; Rangamati and Chittagong 1½" each on the 10th; Sylhet 1½" on the 11th and Sylhet 3" and Sirajganj 2" on the 15th.

Day temperatures were appreciably to markedly below normal practically over the whole province on the first day and in Khulna division on the next two days of the week.

WEST PAKISTAN: A western disturbance which lay over Peshawar division on the last day of the previous week moved away across Kashmir on the first day after causing fairly widespread rain or thundershowers in Rawalpindi and Peshawar divisions and few falls of light rain or drizzle in some of the northern and central divisions. It was closely followed by another western disturbance which moved across northern parts of the province while its secondary moved across Kalat and Khairpur divisions. Under their influence mainly scattered thunder-rain activity occurred in Rawalpindi, Peshawar, Hyderabad and Khairpur divisions between the 10th and the 11th.

Thereafter four secondary western disturbances moved in quick succession across the central divisions while their primaries moved across the north of the province during the last four days of the week. The last three were active and caused fairly widespread to widespread rain or thundershowers with local moderately heavy to heavy falls in D. I. Khan, Peshawar and Rawalpindi divisions on the 13th and the 14th, in Lahore division on the 14th and in Sargodha and Multan divisions on the 13th and scattered to local elsewhere over the province outside Karachi and Hyderabad divisions on the last three days. The first one was feeble and caused scattered to local thunderstorms or showers in Sargodha, Multan, Bahawalpur, Peshawar, D. I. Khan, Quetta and Kalat divisions on the 12th.

Noteworthy amounts of rainfall recorded were:- Chakdara and Haripur 2" each and Drosh 1½" on the 9th; Wana 2" and Loralai and Parachinar 1½" each on the 13th; Drosh and Wana 3" each and Chakdara 2" on the 14th and Haripur 1½" on the 15th.

Day temperatures were markedly to considerably below normal over the province outside central Kalat and Karachi divisions on the first and the last three days and in the northern and central divisions on the second day of the week. These were appreciably so over the province outside Karachi and Hyderabad divisions during the rest of the week.

2. CHITTAGONG DIVISION :	Rainfall was local on two days and scattered on five days.
DACCA DIVISION :	Fairly widespread rain fell on two days and scattered on one day.
KHULNA DIVISION :	Fairly widespread, local and scattered rain fell on one day each.
RAJSHAHI DIVISION :	Rainfall was fairly widespread and scattered on one day each and local on two days.
KASHMIR :	Data not available.
LAHORE DIVISION :	Widespread and scattered rain fell on one day each.
RAWALPINDI DIVISION :	Rainfall was widespread on one day, fairly widespread on two days and scattered on three days.
SARGODHA DIVISION :	Rainfall was widespread and local on one day each.
MULTAN DIVISION :	Widespread rain fell on one day and scattered on two days.
BAHAWALPUR DIVISION :	Rainfall was scattered on two days.
PESHAWAR DIVISION :	Widespread, local and scattered rain fell on two days each and fairly widespread on one day.
D. I. KHAN DIVISION :	Rainfall was fairly widespread on two days and local and scattered on one day each.
QUETTA DIVISION :	Local rain fell on three days and scattered on one day.
KALAT DIVISION :	Rainfall was local and scattered on one day each.
KARACHI DIVISION :	No rain fell during the week.
HYDERABAD DIVISION :	Weather was mainly dry.
KHAIRPUR DIVISION :	Rainfall was 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 over West Pakistan outside Karachi and Hyderabad divisions where no rain fell and was deficient in Dacca and Rajshahi divisions and scanty in Chittagong and Khulna divisions.

Rainfall for the period from 1st April 1963 to-date was in large excess in Lahore, Rawalpindi, Sargodha, Multan, Bahawalpur, Peshawar, Quetta and Hyderabad divisions, excess in D. I. Khan, Kalat and Khairpur divisions and normal in East Pakistan and scanty in Karachi division.

4. The table overleaf summarises the rainfall statistics of eighteen divisions of Pakistan, both for the week and for the period from 1st April 1963 to-date.

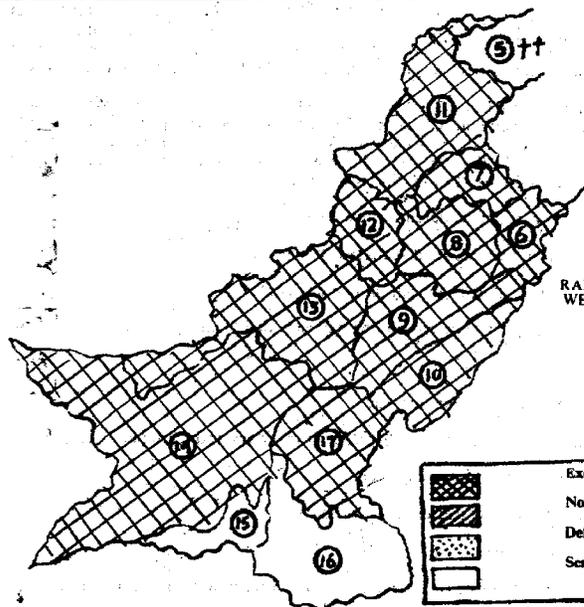
WEEKLY WEATHER REPORT

Rainfall for week ending on
15th May, 1963.

Rainfall for Period from 1st April, 1963
1st April, 1963 to 15th May, 1963.

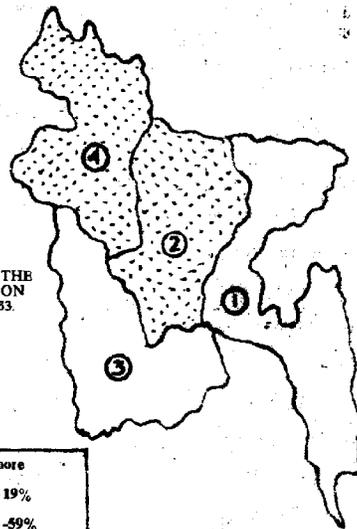
Division	Rainfall for week ending on 15th May, 1963.			Rainfall for Period from 1st April, 1963 1st April, 1963 to 15th May, 1963.			
	Actual	Normal	*Excess or defect	Actual	Normal	*Excess or defect Inches	Per Cent.
1. Chittagong	0.6	2.5	- 3.0	9.8	11.7	- 1.9	- 16
2. Dacca	1.2	2.2	- 1.0	9.3	9.6	- 0.3	- 3
3. Khulna	0.7	1.8	- 1.2	7.0	7.0	0	0
4. Rajshahi	1.2	1.5	- 0.3	6.7	5.7	+ 1.0	+ 17
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	1.0	0.3	+ 0.7	2.6	1.2	+ 1.4	+ 112
7. Rawalpindi	1.5	0.6	+ 0.9	6.5	3.9	+ 2.5	+ 65
8. Sargodha	1.1	0.2	+ 0.8	2.3	1.0	+ 1.3	+ 127
9. Multan	0.6	0.1	+ 0.5	1.7	0.5	+ 1.2	+ 244
10. Bahawalpur	0.4	0	+ 0.3	0.6	0.3	+ 0.3	+ 123
11. Peshawar	1.7	0.5	+ 1.1	5.8	3.1	+ 2.7	+ 90
12. D. I. Khan	0.5	0.1	+ 0.4	1.5	1.2	+ 0.2	+ 20
13. Quetta	0.8	0.1	+ 0.7	2.9	0.8	+ 2.1	+ 249
14. Kalat	0.2	0.1	+ 0.1	0.7	0.5	+ 0.1	+ 22
15. Karachi	0	0	0	0.1	0.4	- 0.2	- 62
16. Hyderabad	0	0	0	0.9	0.1	+ 0.8	+ 513
17. Khairpur	0.5	0.1	+ 0.4	0.5	0.3	+ 0.2	+ 59
18. Junagadh	—	—	—	—	—	—	—

* In the calculation of excesses and deficits, 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

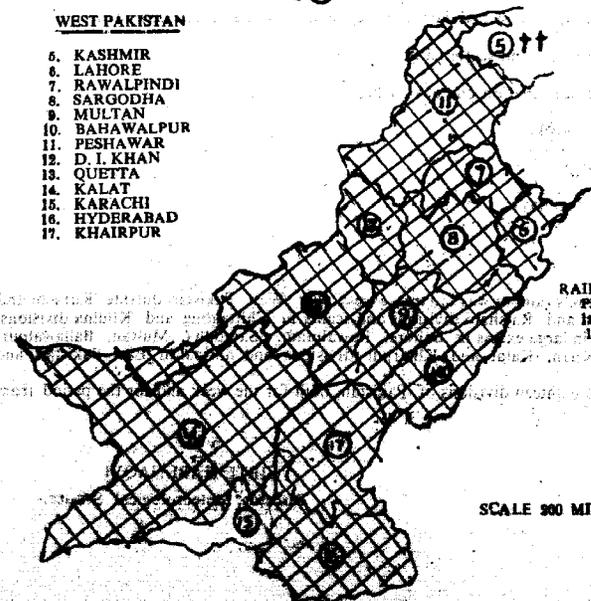
- 5. KASHMIR
- 6. LAHORE
- 7. RAWALPINDI
- 8. SARGODHA
- 9. MULTAN
- 10. BAHAWALPUR
- 11. PESHAWAR
- 12. D. I. KHAN
- 13. QUETTA
- 14. KALAT
- 15. KARACHI
- 16. HYDRABAD
- 17. KHAIRPUR



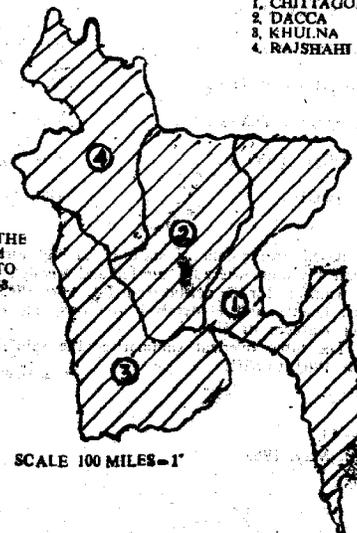
RAINFALL FOR THE
WEEK ENDING ON
15th May, 1963.

EAST PAKISTAN

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



RAINFALL FOR THE
PERIOD FROM
1st April, 1963 TO
15th May, 1963.



SCALE 300 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 22nd May, 1963.

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SUMMARY OF WEATHER

EAST PAKISTAN: Three active westerly low pressure waves influenced the weather over the province during the last five days of the week. The first two moved away across the northern parts while the third one moved from Bihar to subhimalayan West Bengal on the last day.

Under their influence local to fairly widespread rain or thundershowers occurred in Chittagong and Dacca divisions on all the days, in Khulna division between the 19th and 22nd and in Rajshahi division only on the last three days.

Scattered thunder-rain activity was also experienced over the province during the first two days of the week in association with the passage of a feeble westerly low pressure wave.

Noteworthy amounts of rainfall recorded were:—Sylhet $1\frac{1}{2}$ " on the 16th and 3" on the 17th; Cox's Bazar 2" and Chittagong, Narayanganj and Dacca $1\frac{1}{2}$ " on the 18th; Khulna $1\frac{1}{2}$ " and Maijdee Court and Narayanganj 1" each on the 19th; Maijdee Court and Narayanganj 1" each on the 20th; Rangamati 2", Rangpur $1\frac{1}{2}$ " and Sirajganj 1" each on the 21st and Comilla, Srimangal, Narayanganj and Barisal $1\frac{1}{2}$ " each on the 22nd.

Day temperatures were appreciably below normal in Chittagong division on the 19th and in Rajshahi division on the 22nd. These were otherwise nearly normal over the province.

WEST PAKISTAN: An active western disturbance which lay over Afghanistan on the last day of the previous week moved away across the northern parts of West Pakistan by the 17th. It caused fairly widespread rain or thundershowers practically throughout the northern divisions and scattered to local in the central divisions on the 16th and scattered thunderstorms or light showers in Peshawar and Sargodha divisions on the next day.

Three more western disturbances moved in close succession across the northern parts of the province between the 18th and the 21st but these were feeble and caused mainly scattered thunderstorms or showers in Peshawar, D. I. Khan and Quetta divisions on the 19th and 20th and only in the first named division on the 18th and the 21st. Isolated drizzle was also reported from Kalat division on the 19th.

Chief amounts of rainfall recorded were:—Drosh 1" and Peshawar and Landikotal $3/4$ " each on the 16th; Parachinar $3/4$ " on the 19th and Parachinar and Wana $1/2$ " each on the 20th.

Day temperatures were markedly to considerably below normal mainly in the northern and central divisions throughout the week and appreciably so in the southern divisions on most of the days.

2. CHITTAGONG DIVISION :	Rainfall was fairly widespread on two days, local on four days and scattered on one day.
DACCA DIVISION :	Widespread rain fell on two days, fairly widespread on one day and local on three days.
KHULNA DIVISION :	Rainfall was widespread, fairly widespread and local on one day each and scattered on two days.
RAJSHAHI DIVISION :	Rainfall was fairly widespread and scattered on one day each and local on two days.
KASHMIR :	Data not available.
LAHORE DIVISION :	Fairly widespread rain fell on one day.
RAWALPINDI DIVISION :	Rainfall was fairly widespread on one day and scattered on another day.
SARGODHA DIVISION :	Weather remained mainly dry during the week.
MULTAN DIVISION :	Rainfall was local on one day.
BAHAWALPUR DIVISION :	Weather remained dry.
PESHAWAR DIVISION :	Rainfall was fairly widespread on one day and local on two days and scattered on three days.
D. I. KHAN DIVISION :	Local rain fell on one day and scattered on two days.
QUETTA DIVISION :	Rainfall was scattered on two days.
KALAT DIVISION :	Weather remained mainly dry during the week.
KARACHI DIVISION :	} No rain fell during the week.
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 Multan, Peshawar and Quetta divisions, in excess in Dacca, Chittagong and Khulna divisions, normal in Rajshahi and D. I. Khan divisions, deficient in Lahore and Rawalpindi divisions and scanty in Sargodha and Kalat divisions whereas no rain fell in Bahawalpur, Karachi, Hyderabad and Khairpur divisions.

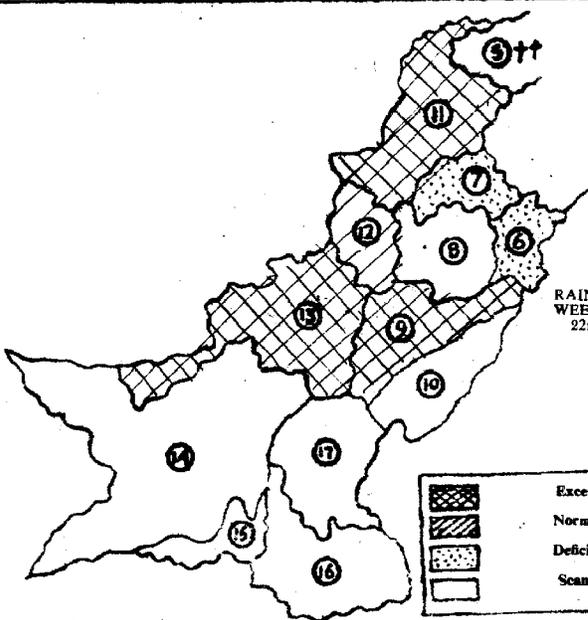
Rainfall for the period from 1st April, 1963 to-date was in large excess in Lahore, Sargodha, Multan, Bahawalpur, Peshawar, Quetta and Hyderabad divisions, in excess in Rawalpindi and Khairpur divisions, normal in East Pakistan and in D. I. Khan and Kalat divisions and scanty in Karachi division.

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, 1963 to-date.

WEEKLY WEATHER REPORT

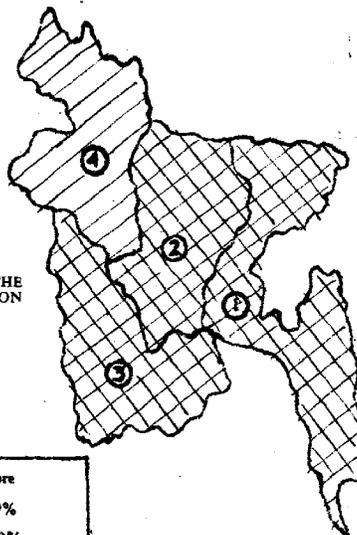
DIVISION.	Rainfall for week ending on 22nd May, 1963.			Rainfall for Period from 1st April, 1963 to 22nd May, 1963.			
	†Actual	Normal	*Excess or defect	†Actual	Normal	Excess or defect	
						Inches	Per—Cent
1. Chittagong	3.0	2.5	+ 0.5	12.8	14.2	- 1.4	- 10
2. Dacca	2.9	2.0	+ 0.9	12.2	11.7	+ 0.6	+ 5
3. Khulna	1.7	1.2	+ 0.5	8.7	8.3	+ 0.4	+ 5
4. Rajshahi	1.7	1.8	0	8.4	7.5	+ 0.9	+ 12
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0.1	0.1	0	2.7	1.4	+ 1.3	+ 98
7. Rawalpindi	0.2	0.4	- 0.2	6.7	4.4	+ 2.4	+ 55
8. Sargodha	0	0.1	- 0.1	2.3	1.1	+ 1.2	+ 104
9. Multan	0.1	0.1	+ 0.1	1.8	0.6	+ 1.2	+ 218
10. Bahawalpur	0	0.1	- 0.1	0.6	0.3	+ 0.2	+ 70
11. Peshawar	0.5	0.2	+ 0.3	6.3	3.3	+ 3.0	+ 93
12. D. I. Khan	0.1	0.1	0	1.6	1.4	+ 0.2	+ 18
13. Quetta	0.2	0.1	+ 0.1	3.1	1.0	+ 2.1	+ 209
14. Kalat	0	0	0	0.7	0.6	+ 0.1	+ 16
15. Karachi	0	0	0	0.1	0.4	- 0.3	- 63
16. Hyderabad	0	0	0	0.9	0.2	+ 0.7	+ 411
17. Khairpur	0	0	0	0.5	0.3	+ 0.2	+ 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.



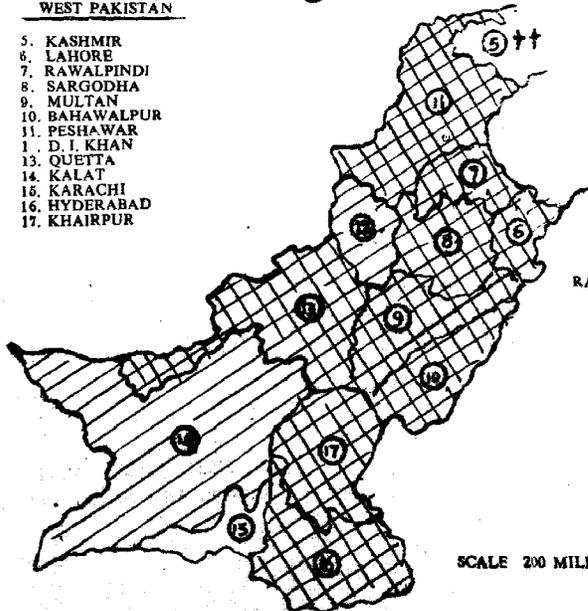
WEST PAKISTAN

- 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

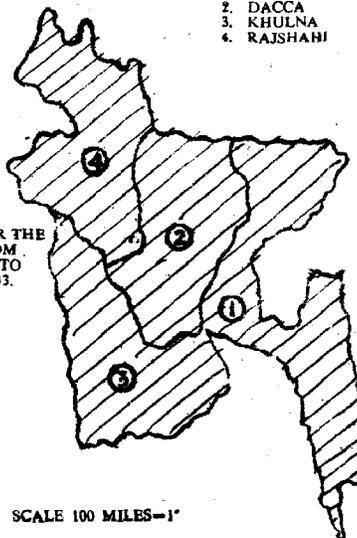


EAST PAKISTAN

- 1. CHITTAGONG
- 2. DACCA
- 3. KHULNA
- 4. 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 29th May, 1963.

—o—o—o—

SUMMARY OF WEATHER

EAST PAKISTAN:—The southern districts of East Pakistan, specially lower Chittagong division were ravaged by a severe cyclonic storm with reported wind speed from 100 to 120 miles per hour which crossed coast between Cox's Bazar and Chittagong on the night between the 28th and the 29th May, 1963. According to the newspaper reports available more than 10,000 persons lost their lives beside huge loss of property and a total disruption of communications. The storm built up from a well marked low which developed in the southeast Bay of Bengal on the 23rd morning. This low concentrated into a depression by the 25th morning centred near latitude $12\frac{1}{2}^{\circ}$ N and longitude 88° E. Moving in a northnortheasterly direction it lay as a deep depression at 0300 hours GMT on the 27th with its centre within one degree of latitude $16\frac{1}{2}^{\circ}$ N and longitude $91\frac{1}{2}^{\circ}$ E. It intensified further into a cyclonic storm the same evening when it lay with its centre near latitude 18° N and longitude 92° E. Thereafter, it moved practically northwards and crossed lower Chittagong coast as a severe cyclonic storm on the night between the 28th and the 29th. It weakened after moving inland and was centred as a deep depression at 0300 hours GMT on the 29th about 90 miles northnortheast of Chittagong. Under its influence local and widespread rain/thundershowers were reported respectively from Chittagong and Dacca divisions on the 28th and widespread from Chittagong division, local from Dacca division and scattered from Khulna division and locally very heavy falls from the first named division on the 29th.

Earlier during the first five days of the week two westerly low pressure waves caused fairly widespread rain or thundershowers in Rajshahi division on the 23rd, 25th and the 26th and in Dacca division on the 25th. Rain/thundershowers were otherwise scattered to local in Chittagong and Dacca divisions during the first five days except for the 27th when the weather remained dry in Dacca division. According to press reports a northwesterly squall swept away a railway wagon and derailed another two over Bahadurabad Ghat on the 23rd. The same storm blew off tin roofs and uprooted trees in Saidpur town on 24th night.

Chief amounts of rainfall recorded during the week were : Srimangal $2''$ and Sylhet and Bogra $1''$ each on the 23rd; Srimangal $2''$ and Sylhet and Faridpur $1''$ each on the 25th; Rangamati and Cox's Bazar $1''$ each on the 28th and Cox's Bazar $10''$, Chittagong and Majdee Court $4''$ each and Rangamati, Comilla, Sylhet and Srimangal $2''$ each on the 29th.

Day temperatures were appreciably above normal in East Pakistan on the 27th, only in Chittagong division on the 28th and to the same extent below normal in the region on the 29th.

WEST PAKISTAN : A feeble western disturbance which moved across northern parts of the province between the 24th and the 25th caused scattered light rain in Quetta division on the 24th. Thereafter, a westerly low pressure wave while moving away eastwards across Kashmir caused local rain/thundershowers in Peshawar division and scattered in Rawalpindi division on the 28th. Parachinar recorded $1/4''$ of rainfall the same day.

Day temperatures were appreciably below normal in the northern divisions on the first day of the week and were to the same extent above normal in Karachi and Hyderabad divisions on the first two days and appreciably to markedly so in Peshawar, Bahawalpur, Hyderabad and Karachi divisions on the 25th and over the whole of West Pakistan the next day and again on the 29th.

2. CHITTAGONG DIVISION :	Rainfall was widespread on one day and local and scattered on three days each.
DACCA DIVISION :	Rainfall was widespread and local on one day each and scattered on four days.
KHULNA DIVISION :	Scattered rain fell on one day.
RAJSHAHI DIVISION :	Widespread rain fell on one day and local on two days.
KASHMIR :	Data not available.
LAHORE DIVISION :	} No rain fell during the week.
RAWALPINDI DIVISION :	
SARGODHA DIVISION :	
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Rainfall was scattered on one day.
D. I. KHAN DIVISION :	No rain fell during the week.
QUETTA DIVISION :	Weather remained mainly dry during the week.
KALAT DIVISION :	} No rain fell during the week.
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 Chittagong division, deficient in Dacca division and scanty in Khulna and Rajshahi divisions. No rain fell in West Pakistan during the week.

Rainfall for the period from 1st April, 1963 to-date was in large excess in Lahore, Sargodha, Peshawar, Multan, Quetta and Hyderabad divisions, in excess in Rawalpindi, Bahawalpur and Khairpur divisions, normal in East Pakistan and in D. I. Khan and Kalat divisions and scanty in Karachi 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, 1963 to-date.

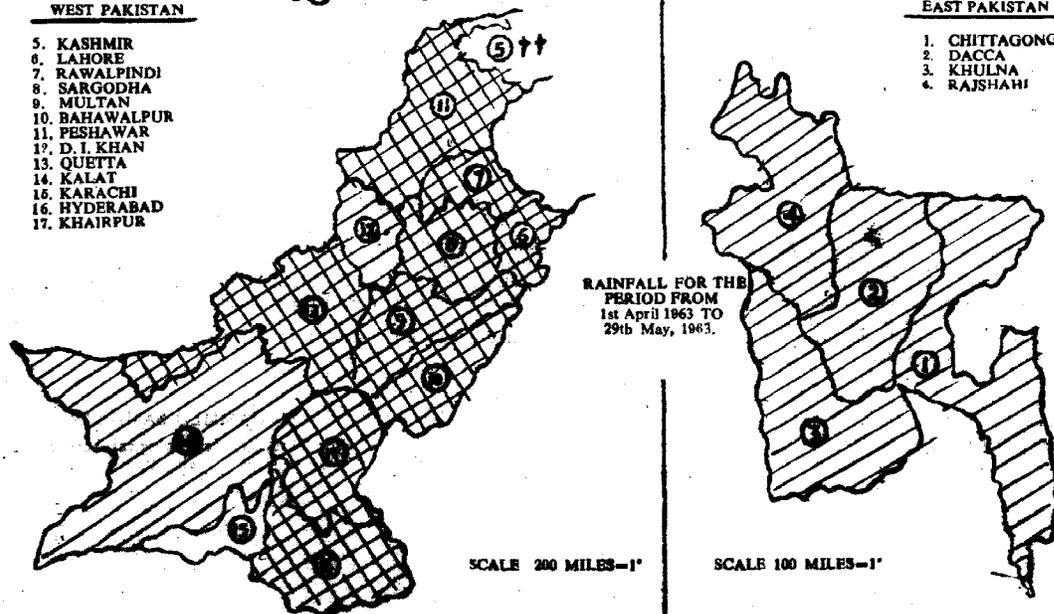
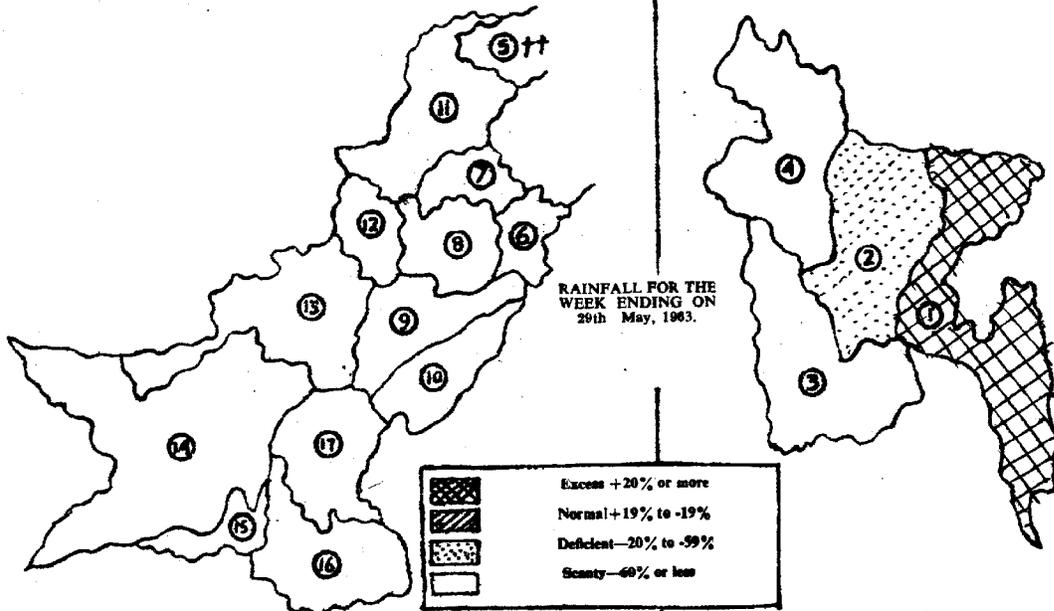
Karachi—11
The 29th May, 1963.

MOHAMMED SAMIULLAH
Director, Meteorological Service.

WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending on 29th May, 1963.			Rainfall for Period from 1st April, 1963 to 29th May, 1963.			
	†Actual	Normal	*Excess or defect	†Actual	Normal	Excess or defect	
						Inches	Per-Cent
1. Chittagong	5.0	3.3	+ 1.7	17.9	17.5	+ 0.3	+ 2
2. Dacca	1.3	3.1	- 1.8	13.5	14.8	- 1.3	- 9
3. Khulna	0.2	2.3	- 2.1	8.9	10.6	- 1.6	- 16
4. Rajshahi	0.9	2.9	- 1.9	9.3	10.4	- 1.0	- 10
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0	0.2	- 0.2	2.7	1.5	+ 1.2	+ 75
7. Rawalpindi	0	0.5	- 0.5	6.7	4.9	+ 1.9	+ 38
8. Sargodha	0	0.1	- 0.1	2.3	1.3	+ 1.1	+ 84
9. Multan	0	0.1	- 0.1	1.8	0.7	+ 1.1	+ 170
10. Bahawalpur	0	0.1	- 0.1	0.6	0.4	+ 0.2	+ 49
11. Peshawar	0	0.2	- 0.2	6.3	3.4	+ 2.9	+ 83
12. D. I. Khan	0	0.1	- 0.1	1.6	1.4	+ 0.2	+ 12
13. Quetta	0	0.1	- 0.1	3.1	1.1	+ 2.0	+ 72
14. Kalat	0	0	0	0.7	0.6	+ 0.1	+ 16
15. Karachi	0	0	0	0.1	0.4	- 0.3	- 63
16. Hyderabad	0	0.1	- 0.1	0.9	0.2	+ 0.7	+ 300
17. Khairpur	0	0	0	0.5	0.3	+ 0.2	+ 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 12th June, 1963.

—o:O:o—

SUMMARY OF WEATHER

EAST PAKISTAN : Last week's unsettled conditions concentrated into a depression on the first day of the week with its centre at 08,0300 hours GMT within one degree of Latitude 20°N and Longitude 88°E and caused local rain/thundershowers in Chittagong division on the 6th. As the depression moved practically northwards it deepened, crossed Sunderbans coast the same night and was centred next morning at 0300 hours GMT near Jessore. Thereafter it weakened and lay as a depression, at 0300 hours GMT of the 8th about 60 miles north-northeast of Bogra and finally became unimportant over north Assam by the 9th morning. This revived monsoon activity over the province and caused widespread rain or thundershowers over there during the last six days of the week except on the 9th when local and scattered rain or thundershowers occurred respectively in Dacca and Rajshahi divisions and again on the 11th and the 12th when local and scattered rain or thundershowers occurred in Rajshahi division. Locally moderate to heavy falls were also reported from Chittagong division on all the six days, from Dacca division on the 7th and the 8th, from Khulna division on the 7th and from Rajshahi division on the 8th and the 10th. Newspapers described this as another natural calamity in the wake of the earlier cyclone. According to reports appearing in the press vast areas in Chittagong division were flooded and communications were paralysed as a result of these heavy rains.

Chief amounts of rainfall during the week were:—Barisal 7" and Comilla and Faridpur 3" each on the 7th; Mymensingh 7", Sirajganj and Rangpur 6" each, Narayanganj, Dacca and Bogra 4" each and Majidpur 3" each on the 7th; Mymensingh 7", Sirajganj 3" each on the 8th; Sylhet 6" and Chittagong 3" on the 9th; Bramanbaria and Sylhet 7" each, Chittagong and Comilla 5" each, Sirajganj 4" and Rangmat and Cox's Bazar 3" each on the 10th; Chittagong 3" on the 11th and Chittagong 4" and Cox's Bazar 3" on the 12th.

Day temperatures were appreciably above normal in the northern districts of the region on the first two days of the week and were generally appreciably below normal in the region on the 8th, 9th and the 10th; in Chittagong division on the 11th and in Dacca and Chittagong divisions on the last day and the week.

WEST PAKISTAN: An upper air trough while moving away eastwards across Kashmir and adjoining areas of West Pakistan caused scattered thundershowers in Rawalpindi division on the 10th. Another upper air trough which closely followed it and took a more southerly track caused local rain or thundershowers in Sargodha division and a few dust-storms in Lahore, Multan and Bahawalpur divisions on the 12th. The thundershowers at Lyallpur were preceded by a violent dust-storm with reported wind speed of 50 m. p. h. According to newspapers reports three lives were lost and a number of kutch houses were damaged and low lying areas flooded as a consequence of this storm. Lyallpur recorded 1" of rainfall the same day.

Day temperatures were generally appreciably above normal in the northern and central parts of the region on the 6th, 7th and the 10th in Peshawar, D. I. Khan and Multan divisions on the 8th and the 9th and in Quetta and adjoining Kalat divisions on the last two days of the week.

2. CHITTAGONG DIVISION :	Rainfall was widespread on six days and scattered on one day.
DACCA DIVISION :	Widespread rain fell on four days and fairly widespread, local and scattered on one day each.
KHULNA DIVISION :	Rainfall was widespread on five days and fairly widespread and scattered on one day each.
RAJSHAHI DIVISION :	Rainfall was widespread on three days, local on one day and scattered on two days.
KASHMIR :	Data not available.
LAHORE DIVISION :	No rain fell during the week.
RAWALPINDI DIVISION :	Weather remained mainly dry during the week.
SARGODHA DIVISION :	Rainfall was local on one day.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	
D. I. KHAN DIVISION :	
QUETTA DIVISION :	No rain fell during the week.
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 East Pakistan and in Sargodha division and scanty in Rawalpindi division whereas no rain fell elsewhere over West Pakistan.

Rainfall for the period from 1st June, 1963 to-date was in large excess in East Pakistan and in Sargodha division; normal in Peshawar division and deficient in Rawalpindi division. No rain has fallen elsewhere over West Pakistan so far.

4. The table enclosed summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June, 1963 to-date.

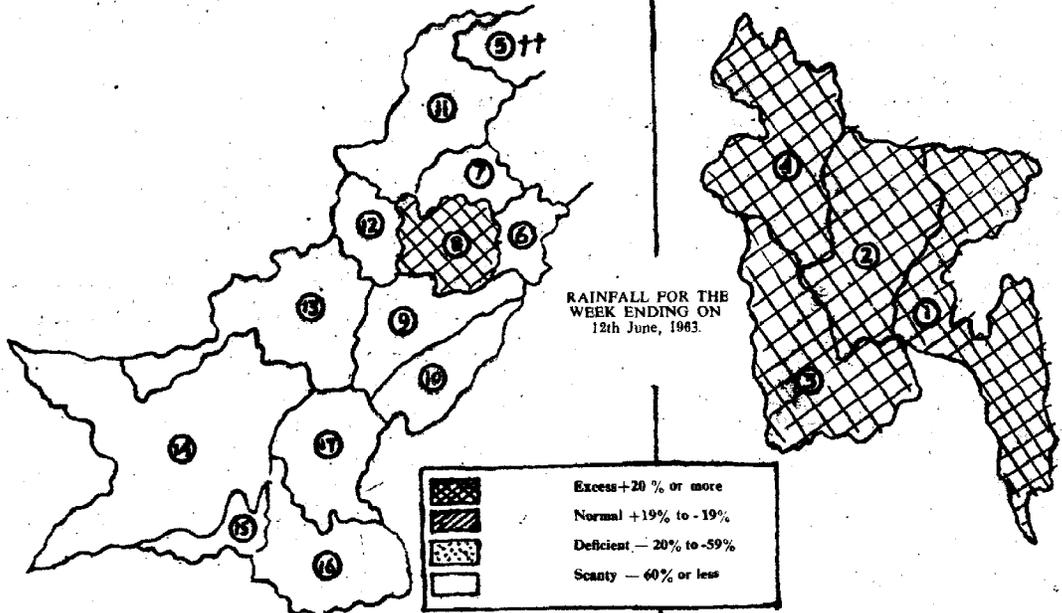
Karachi - F1
The 12th June, 1963.

SIBTE NABI NAQVI
Director, Meteorological Service.

WEEKLY WEATHER REPORT

Division	Rainfall for week ending on 12th June, 1963.			Rainfall for Period from 1st June, 1963 to 12th June 1963.			
	↑ Actual	Normal	*Excess or defect	↑ Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	11.1	4.0	+ 7.1	12.4	7.0	+ 5.4	+ 77
2. Dacca	8.3	3.4	+ 4.9	9.2	5.8	+ 3.5	+ 62
3. Khulna	6.8	2.1	+ 4.7	8.4	3.8	+ 4.6	+ 122
4. Rajshahi	7.2	2.8	+ 4.4	8.7	5.1	+ 3.6	+ 71
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0	0.1	— 0.1	0	0.2	— 0.2	— 100
7. Rawalpindi	0	0.4	— 0.4	0.5	0.7	— 0.3	— 37
8. Sargodha	0.5	0.1	+ 0.3	0.5	0.2	+ 0.3	+ 142
9. Multan	0	0.1	— 0.1	0	0.1	— 0.1	— 100
10. Bahawalpur	0	0.1	— 0.1	0	0.1	— 0.1	— 100
11. Peshawar	0	0.2	— 0.2	0.2	0.3	— 0.1	— 19
12. D. I. Khan	0	0.1	— 0.1	0	0.1	— 0.1	— 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	0	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.



WEST PAKISTAN

6. 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. RA/SHAHI

RAINFALL FOR THE PERIOD FROM
1st June, 1963 TO
12th June, 1963.

SCALE 300 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 June, 1963.

—o:O:o—

SUMMARY OF WEATHER

EAST PAKISTAN: Following the southwards shift of the seasonal trough of low pressure on the first day of the week a feeble cyclonic circulation developed over north Bay of Bengal and coastal areas of East Pakistan, the next day. This moved inland to East Pakistan and West Bengal on the 17th, remained well marked for some time and finally merged into the trough of low pressure by the end of the week. Under its influence fairly widespread rain fell practically over the whole of East Pakistan during the week except on the first day when the rainfall was generally local. Locally heavy to very heavy falls were recorded over most of the province on the last two days of the week, only in Chittagong division on the 14th and the 15th and in Dacca division on the first two days of the week. These heavy downpours resulted in a swelling of the rivers and Chittagong division was threatened by floods by the end of the week.

Chief amounts of rainfall during the week were:—Faridpur 4" on the 13th; Cox's Bazar 8" and Maijdee Court 5" on the 14th; Chittagong 5" and Cox's Bazar 4" on the 15th; Cox's Bazar 8" Chittagong 6" and Maijdee Court and Khulna 4" each on the 18th and Dacca 7" and Chittagong, Faridpur, Khulna and Jessore 4" each on the 19th.

Day temperatures were markedly below normal in the province on the 19th. These were appreciably to markedly so throughout the region on the 16th and only in Chittagong division on the 14th, 15th and the 18th.

WEST PAKISTAN: A western disturbance while moving away eastwards across extreme north of the province caused fairly widespread rain or thundershowers in Lahore division, local in Rawalpindi division and scattered in Sargodha division on the 15th and local and scattered in Rawalpindi and Peshawar divisions the next day. A few dust storms were also reported from Multan division on these days and from Sargodha, Peshawar and D. I. Khan divisions only on the 16th. Two more western disturbances moved eastwards across the northern parts and caused scattered or local rain or thundershowers in Multan division on the 17th and in Rawalpindi and Peshawar divisions on the last day of the week. Parachinar recorded 2½" of rainfall on the 15th; Leiah 1" on the 17th and Chakdara ½" on the 19th.

Day temperatures were appreciably to markedly above normal in most of the northern divisions practically throughout the week except on the 16th when these were to the same extent below normal in Sargodha division and on the 13th when these were appreciably below normal both in Lahore and Sargodha divisions.

2. CHITTAGONG DIVISION :	Rainfall was widespread on three days, fairly widespread and scattered on one day each and local on two days.
DACCA DIVISION :	Rainfall was widespread on three days, fairly widespread on two days and local and scattered on one day each.
KHULNA DIVISION :	Widespread rain fell on four days and fairly widespread on three days.
RAJSHAHI DIVISION :	Rainfall was widespread on four days and fairly widespread and local on one day each.
KASHMIR :	Data not available.
LAHORE DIVISION :	Rainfall was fairly widespread on one day.
RAWALPINDI DIVISION :	Scattered rain fell on three days.
SARGODHA DIVISION :	Weather remained dry during the week.
MULTAN DIVISION :	Local rain fell on one day.
BAHAWALPUR DIVISION :	Weather remained dry during the week.
PESHAWAR DIVISION :	Rainfall was local on one day and scattered on two days.
D. I. KHAN DIVISION :	} Weather remained dry during the week.
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 large excess in Chittagong, Dacca and Khulna divisions, in excess in Rajshahi and Peshawar divisions, deficient in Lahore division and scanty in Rawalpindi division whereas no rain fell elsewhere over West Pakistan.

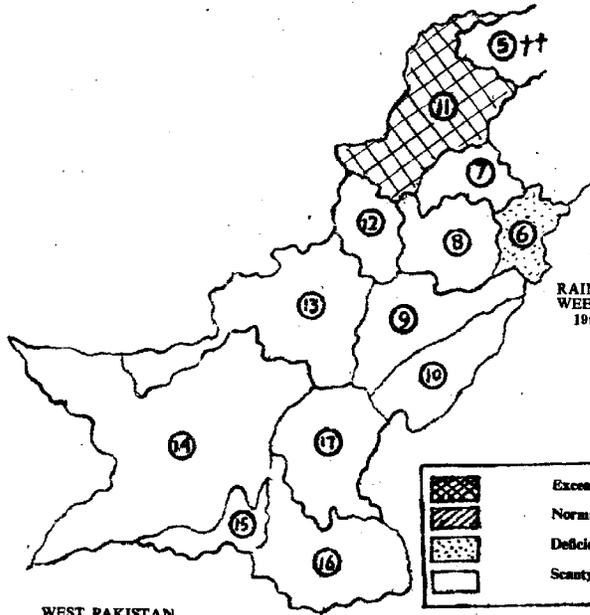
Rainfall for the period from 1st June, 1963 to-date was in large excess in Chittagong, Dacca and Khulna divisions, normal in Rajshahi, Sargodha and Peshawar divisions, deficient in Rawalpindi division and scanty in Lahore division. No rain fell elsewhere over West Pakistan.

4. The table overleaf summarises the rainfall statistics for the eighteen division of Pakistan, both for the week and for the period from 1st June, 1963 to-date.

WEEKLY WEATHER REPORT

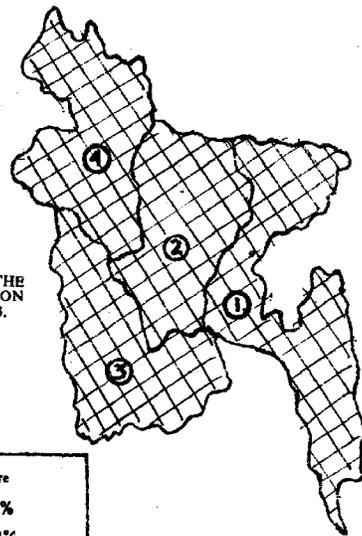
DIVISION.	Rainfall for week ending on 19th June, 1963.			Rainfall for Period from 1st June 1963 to 19th June, 1963.			
	†Actual	Normal	*Excess or defect	†Actual	Normal	Excess or defect	
						Inches	Per—Cent
1. Chittagong	10.8	5.5	+ 5.3	23.2	12.5	+10.7	+ 85
2. Dacca	8.4	3.3	+ 5.1	17.6	8.9	+ 8.7	+ 97
3. Khulna	10.4	3.4	+ 7.0	18.8	7.2	+11.6	+ 161
4. Rajshahi	3.3	3.3	0	12.0	8.4	+ 3.6	+ 43
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0.2	0.4	— 0.2	0.2	0.6	— 0.3	— 61
7. Rawalpindi	0.1	0.6	— 0.5	0.6	1.3	— 0.8	— 58
8. Sargodha	0	0.3	— 0.3	0.5	0.5	— 0.1	— 10
9. Multan	0	0.4	— 0.4	0	0.5	— 0.5	— 100
10. Bahawalpur	0	0.1	— 0.1	0	0.1	— 0.1	— 100
11. Peshawar	0.2	0.1	+ 0.1	0.4	0.4	0	+ 5
12. D. I. Khan	0	0.1	— 0.1	0	0.3	— 0.3	— 100
13. Quetta	0	0.1	— 0.1	0	0.1	— 0.1	— 100
14. Kalat	0	0.1	— 0.1	0	0.1	— 0.1	— 100
15. Karachi	0	0	0	0	0.1	— 0.1	— 100
16. Hyderabad	0	0.1	— 0.1	0	0.1	— 0.1	— 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.



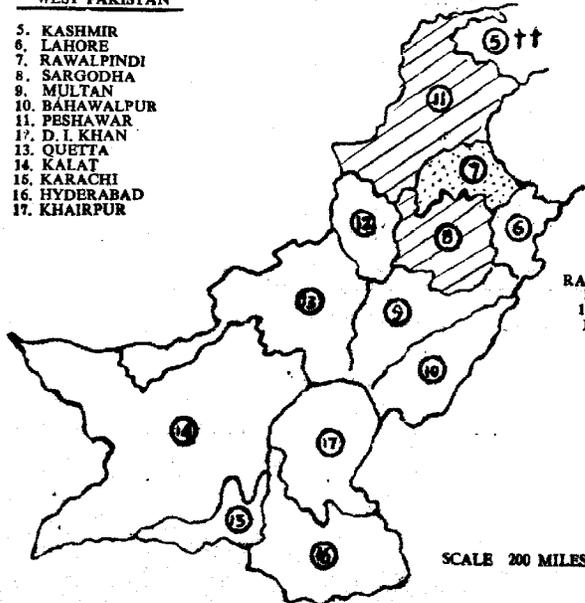
WEST PAKISTAN

- 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

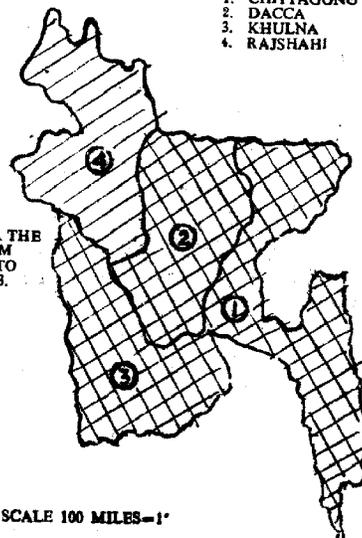


EAST PAKISTAN

- 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 26th June, 1963.

—o:O:—

SUMMARY OF WEATHER

EAST PAKISTAN: Monsoon was active and caused widespread rain with locally heavy falls practically throughout East Pakistan on the first day of the week. In Chittagong divisions seven deaths were reported due to floods caused by incessant heavy rains since the previous week. Thereafter the monsoon weakened following the approach of an easterly low pressure wave towards the Andaman Sea and the Gulf of Murtaban where conditions became unsettled on the 23rd. These concentrated into a depression the next day with centre at 0300 GMT within one degree of Latitude 15°N and Longitude 94°E. Moving initially north-westwards the depression was centred near Latitude 17°N and Longitude 92°E on the 25th morning and within one degree of Latitude 18°N and Longitude 89°E at 0300 GMT on the last day of the week. Under the influence of the weak monsoon mainly scattered to local rain fell in Chittagong, Dacca and Rajshahi divisions on the 21st and 22nd, in the last two divisions during the next two days, in Dacca division on the 25th and fairly wide-spread in Khulna division and scattered elsewhere in the province on the 26th.

Chief amounts of rainfall were Sylhet 5", Dacca and Satkhira 3" each and Sirajganj 2" on the 20th; Rangamati 5" and Sylhet and Srimangal 2" each on the 21st and Srimangal and Rangpur 2" each on the 22nd.

Day temperatures were appreciably to markedly above normal in the region during the last four days of the week and appreciably below normal on the first two days.

WEST PAKISTAN: Two western disturbances while moving eastwards across Peshawar and D. I. Khan divisions caused fairly widespread thunderstorms or showers in Rawalpindi division, local in Lahore division and scattered dust or thunderstorms elsewhere in the region from Peshawar to Bahawalpur divisions on the 21st and scattered thunderstorms in Rawalpindi and Peshawar divisions on the 20th and the 22nd. These were followed by two more western disturbances which caused local rain or thundershowers in Lahore division on the 24th and the 25th, in Rawalpindi division on the 24th and scattered in Rawalpindi and Quetta divisions on the 25th. Scattered thunderstorms were also reported from Rawalpindi and Bahawalpur divisions on the 23rd, from Peshawar divisions on the 25th and a few duststorms from D. I. Khan and Peshawar divisions respectively on the 23rd and the 24th. Another western disturbance approached Quetta and D. I. Khan divisions on the last day of the week and caused scattered rain in Quetta division and a few thunderstorms in Peshawar division the same day.

Chief amounts of rainfall were:—Sialkot and Murree $\frac{1}{2}$ " each on the 21st; Jhelum $\frac{1}{2}$ " and Sialkot $\frac{1}{2}$ ", on the 24th; Harnai $\frac{1}{2}$ " and Sialkot $\frac{1}{2}$ " on the 25th and Loralai $\frac{1}{2}$ " on the 26th.

Day temperatures were appreciably above normal in Lahore, Rawalpindi and Peshawar divisions on the 21st and the 24th and appreciably to markedly so in Quetta and Kalat divisions on the 25th. These were generally appreciably below normal in Sargodha, Bahawalpur, Khairpur and Multan divisions on the 22nd, 23rd, 25th and the 26th.

2. CHITTAGONG DIVISION :	Rainfall was widespread, fairly widespread, local and scattered on one day each.
DACCA DIVISION :	Rainfall was widespread and local on one day each and scattered on four days.
KHULNA DIVISION :	Widespread, fairly widespread and scattered rain fell on one day each.
RAJSHAHI DIVISION :	Rainfall was widespread on one day, local on three days and scattered on two days.
KASHMIR :	Data not available.
LAHORE DIVISION :	Local rain fell on three days.
RAWALPINDI DIVISION :	Rainfall was scattered on three days.
SARGODHA DIVISION :	No rain fell during the week.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	Scattered rain fell on one day.
PESHAWAR DIVISION :	
D. I. KHAN DIVISION :	Weather remained mainly dry during the week
QUETTA DIVISION :	Scattered rain fell on two days.
KALAT DIVISION :	No rain fell during the week
KARACHI DIVISION :	
HYDERABAD DIVISION :	
KHAIRPUR DIVISION :	Data not available.
JUNAGADH :	

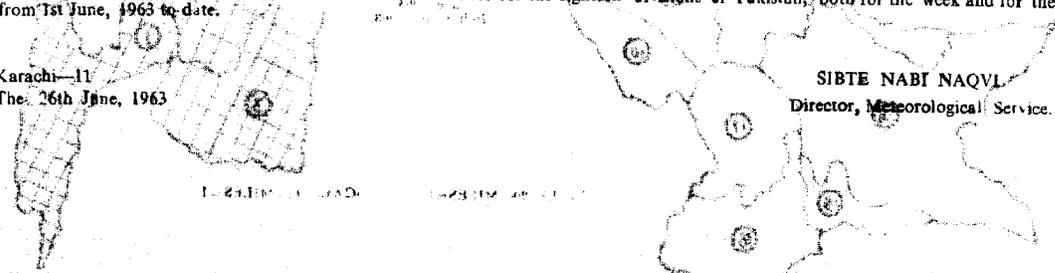
3. Based on the data of stations having normals, the week's rainfall was deficient in Dacca, Rajshahi, Lahore and Quetta divisions and scanty in Chittagong, Khulna, Rawalpindi, Sargodha and D. I. Khan divisions whereas no rain fell elsewhere over West Pakistan.

Rainfall for the period from 1st June, 1963 to-date was in large excess in Khulna division; in excess in Chittagong & Dacca divisions; normal in Rajshahi division; deficient in Lahore, Sargodha and Peshawar divisions and scanty in Rawalpindi, D. I. Khan and Quetta divisions. No rain fell 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 June, 1963 to date.

Karachi—11
The 26th June, 1963

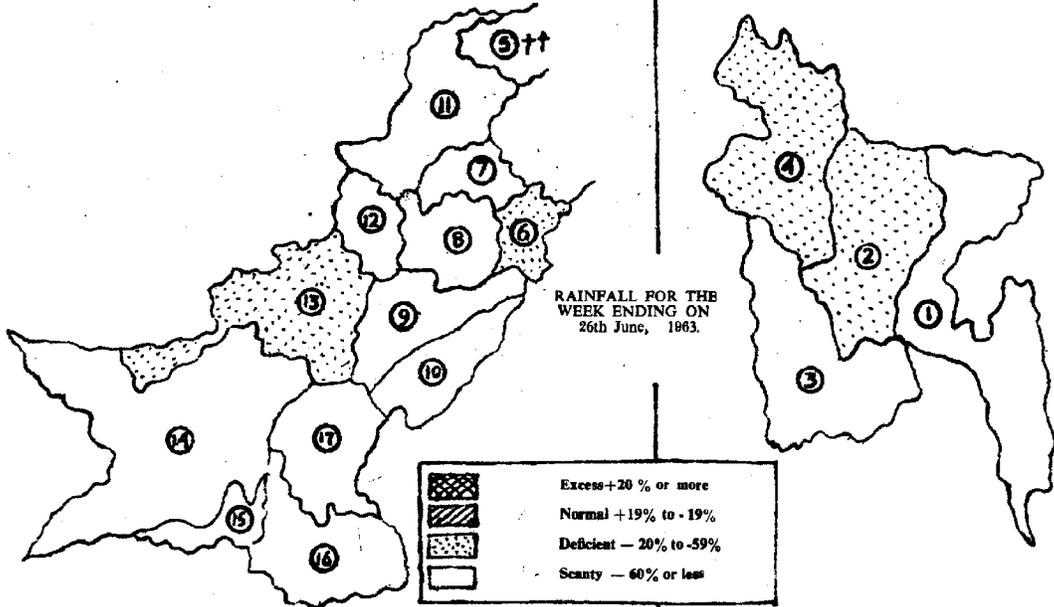
SIBTE NABI NAQVI
Director, Meteorological Service.



WEEKLY WEATHER REPORT

Division	Rainfall for week ending on 26th June, 1963.			Rainfall for Period from 1st June, 1963 to 26th June, 1963.			
	↑ Actual	Normal	*Excess or defect	↑ Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	2.0	5.5	— 3.5	25.2	18.0	+ 7.2	+ 40
2. Dacca	1.5	3.6	— 2.1	19.8	12.0	+ 6.6	+ 53
3. Khulna	1.0	4.0	— 0.3	19.8	11.2	+ 8.6	+ 77
4. Rajshahi	1.8	3.8	— 2.0	13.8	12.1	+ 1.7	+ 14
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0.6	0.9	— 0.3	0.8	1.5	— 0.7	— 46
7. Rawalpindi	0.2	1.1	— 0.8	0.8	2.4	— 1.6	— 67
8. Sargodha	0	0.4	— 0.4	0.5	0.9	— 0.4	— 46
9. Multan	0	0.2	— 0.2	0	0.6	— 0.6	— 100
10. Bahawalpur	0	0.1	— 0.1	0	0.2	— 0.2	— 100
11. Peshawar	0	0.2	— 0.2	0.4	0.6	— 0.1	— 26
12. D. I. Khan	0	0.3	— 0.3	0	0.6	— 0.6	— 98
13. Quetta	0.1	0.1	— 0.1	0.1	0.2	— 0.2	— 79
14. Kalat	0	0.1	— 0.1	0	0.2	— 0.2	— 100
15. Karachi	0	0.2	— 0.2	0	0.3	— 0.3	— 100
16. Hyderabad	0	0.2	— 0.2	0	0.3	— 0.3	— 100
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.

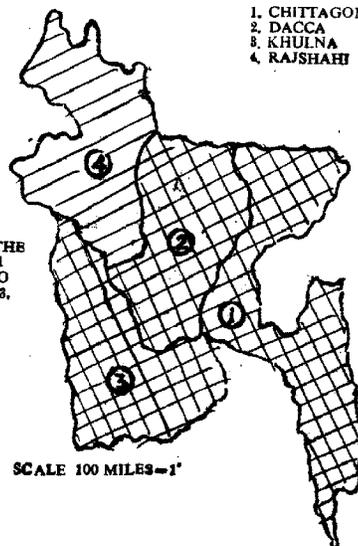
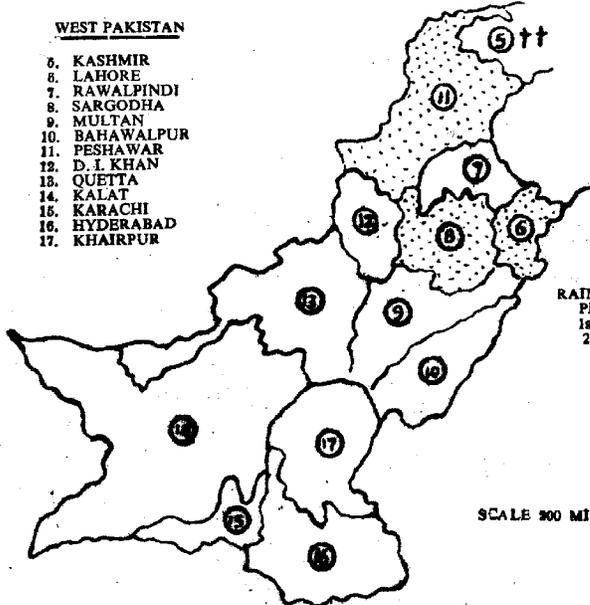


WEST PAKISTAN

- 6. KASHMIR
- 8. 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



WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 3rd July, 1963.

—o:O:o—

SUMMARY OF WEATHER

EAST PAKISTAN:—Last week's depression in the northwest Bay of Bengal moved westwards, crossed Orissa coast, weakened rapidly over there and became unimportant after causing fairly widespread rain or thundershowers in Chittagong division on the first day of the week. Thereafter an easterly low pressure area moved into the north Bay of Bengal on the 28th. It moved initially north-north-westwards and lay over Bihar on the 30th. It subsequently moved away slowly northeastwards during the next two days. In its association local to fairly widespread rain/thundershowers occurred practically in the whole province on the 30th and the 1st and scattered to local on the 28th and the 29th except in Rajshahi division on the 28th and in Khulna division on the 29th when the weather was dry. Another low pressure area developed over the northeast Bay of Bengal on the 2nd and moving north-north-westwards lay over West Bengal and adjoining northwest Bay on the last day of the week. Under its influence fairly widespread rain or thundershowers occurred in Chittagong division and local in Rajshahi division on the 2nd and scattered to local in the province outside Khulna division on the 3rd.

Chief amounts of rainfall were:—Sylhet $1\frac{1}{2}$ " on the 28th; Jessore and Bogra 2" each on the 30th and Cox's Bazar, Maijdee Court and Rangpur $1\frac{1}{2}$ " each on the 2nd.

Day temperatures were slightly above normal in the province on the first three days of the week and in Khulna division on the 30th and the 2nd.

WEST PAKISTAN:—The western disturbance, that approached Quetta and D. I. Khan divisions on the last day of the previous week, while moving across Rawalpindi division and Kashmir caused fairly widespread thunderstorms or showers in Rawalpindi division, local in Lahore division and scattered in Quetta and Peshawar divisions on the 28th and also in the last named division on the 27th. A few duststorms were reported from Kalat division and light rain from Quetta division on the 27th. Thereafter, three more western disturbances moved in quick succession across the northern divisions of the province and caused fairly widespread thunderstorms or showers in Lahore and Rawalpindi divisions on the 29th and the 1st respectively and scattered to local in Rawalpindi, Sargodha and Peshawar divisions between the 29th and the 2nd, in Multan division on the 30th and in Bahawalpur and Peshawar divisions on the 3rd. A few dust or thunderstorms were also reported from Multan and Kalat divisions on the 29th, from Bahawalpur division on the 29th and the 30th and from Quetta division on the 30th and the 2nd and light rain from D. I. Khan divisions on the 3rd.

Noteworthy amounts of rain fall were:—Sialkot and Muree 1" each on the 29th and Peshawar and Parachinar 1" each on the 2nd.

Day temperatures were appreciably to markedly above normal in Bahawalpur and Hyderabad divisions on the 28th and were to the same extent below normal in Lahore and Sargodha divisions on the 30th. These were slightly above normal in the northern divisions on the first three days and in the northern and the southern divisions on the last day of the week and were slightly below normal in Lahore, Sargodha, Kalat and Quetta divisions on the 1st and in Quetta and Peshawar divisions on the 2nd and 3rd.

2. CHITTAGONG DIVISION :	Rainfall was fairly widespread on two days and local on five days.
DACCA DIVISION :	Fairly widespread and local rain fell on two days each and scattered on one day.
KHULNA DIVISION :	Rainfall was local on one day and scattered on three days.
RAJSHAHI DIVISION :	Widespread, fairly widespread and local rain fell on one day each and scattered on two days.
KASHMIR :	Data not available.
LAHORE DIVISION :	Rainfall was widespread on one day and local on another day.
RAWALPINDI DIVISION :	Rainfall was fairly widespread, local and scattered on one day each.
SARGODHA DIVISION :	Local and scattered rain fell on one day each.
MULTAN DIVISION :	Rainfall was local on one day.
BAHAWALPUR DIVISION :	Scattered rain fell on one day.
PESHAWAR DIVISION :	Rainfall was local on one day, and scattered on three days.
D. I. KHAN DIVISION :	Weather remained mainly dry during the week.
QUETTA DIVISION :	Rainfall was scattered on one day.
KALAT DIVISION :	} No rain fell during the week.
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 Peshawar division; normal in Rawalpindi division; deficient in Chittagong, Dacca, Rajshahi and Lahore divisions; and scanty in Khulna, Sargodha, Multan and Quetta divisions whereas no rainfall elsewhere over the country.

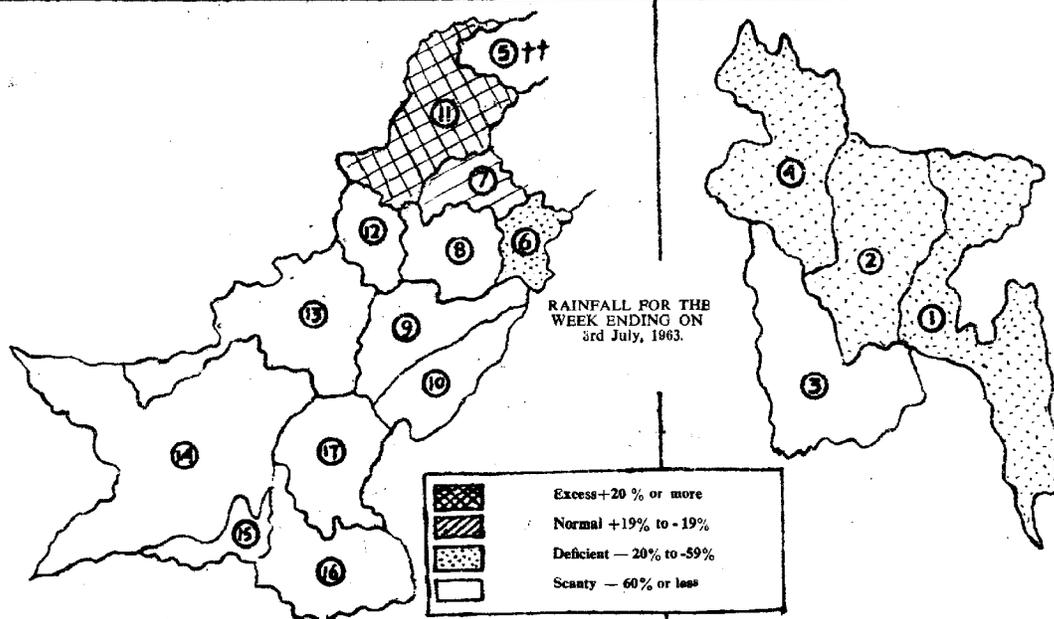
Rainfall for the period from 1st June 1963 to-date was in excess in Chittagong, Dacca, Khulna, and Peshawar divisions; normal in Rajshahi division deficient in Lahore, Rawalpindi and Sargodha divisions and scanty elsewhere over the country outside Kalat, Karachi, Hyderabad and Khairpur divisions where no rain has fallen so far.

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 1963 to-date.

WEEKLY WEATHER REPORT

Division	Rainfall for week ending on 3rd July, 1963.			Rainfall for Period from 1st June, 1963 to 3rd July 1963.			
	Actual	Normal	*Excess or defect	Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	2.2	4.7	- 2.5	27.4	22.6	+ 4.7	+ 43
2. Dacca	1.3	3.0	- 1.7	20.4	15.5	+ 4.9	+ 31
3. Khulna	0.9	3.5	- 2.5	20.4	14.6	+ 6.1	+ 42
4. Rajshahi	2.2	3.6	- 1.4	16.0	15.7	+ 0.3	+ 2
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0.9	0.1	- 0.2	1.7	2.6	- 0.9	- 34
7. Rawalpindi	1.2	1.5	- 0.2	2.1	3.9	- 1.8	- 46
8. Sargodha	0.2	0.7	- 0.5	0.7	1.6	- 0.9	- 58
9. Multan	0.1	0.3	- 0.2	0.1	1.0	- 0.9	- 89
10. Bahawalpur	0	0.3	- 0.3	0	0.5	- 0.5	- 100
11. Peshawar	0.5	0.2	+ 0.3	1.0	0.8	+ 0.2	+ 21
12. D. I. Khan	0	0.3	- 0.3	0	0.9	- 0.9	- 99
13. Quetta	0	0.1	- 0.1	0.1	0.4	- 0.3	- 78
14. Kalat	0	0.1	- 0.1	0	0.3	- 0.3	- 100
15. Karachi	0	0.1	- 0.1	0	0.4	- 0.4	- 100
16. Hyderabad	0	0.1	- 0.8	0	0.1	- 0.1	- 100
17. Khairpur	0	0.2	- 0.2	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.

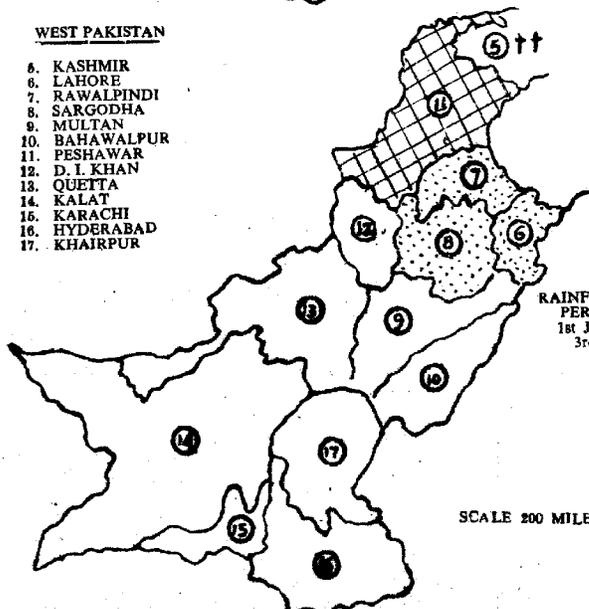


WEST PAKISTAN

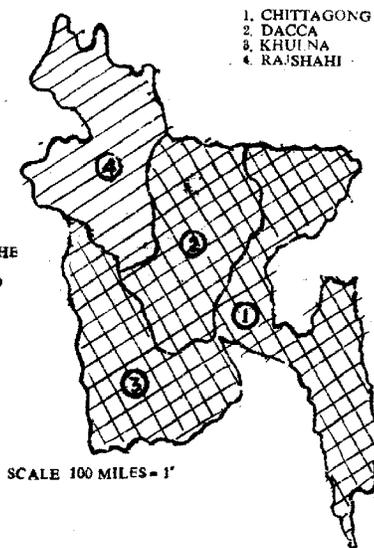
- 6. KASHMIR
- 6. LAHORE
- 7. RAWALPINDI
- 8. SARGODHA
- 9. MULTAN
- 10. BAHAWALPUR
- 11. PESHAWAR
- 12. D. I. KHAN
- 13. QUETTA
- 14. KALAT
- 15. KARACHI
- 16. HYDERABAD
- 17. KHAIRPUR

EAST PAKISTAN

- 1. CHITTAGONG
- 2. DACCA
- 3. KHULNA
- 4. RA'SHAHI



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 July, 1963.

—o:0:—

SUMMARY OF WEATHER

EAST PAKISTAN:—Last week's low pressure area over West Bengal and the adjoining Bay of Bengal moved rapidly north-west-wards and became unimportant after causing fairly widespread rain or thundershowers in Chittagong and Khulna divisions and scattered elsewhere over the province on the first day of the week. Thereafter a low pressure wave moved into the north Bay of Bengal and rapidly concentrated into a depression on the 4th when it was centred at 0300 GMT near Latitude 21°N and Longitude 89°E. It moved slowly north-west-wards, crossed coast in the forenoon of the 5th and lay on the next morning about 50 miles northwest of Jhersuguda. During this period monsoon activity declined over East Pakistan and scattered to local rain or thundershowers occurred over there between the 4th and the 6th. However, as the depression moved further inland and gradually weakened into a low, monsoon again strengthened in its wake and caused fairly widespread rain practically throughout the province with occasional heavy to very heavy falls locally in Chittagong and Rajshahi divisions between the 7th and the 10th. These heavy falls resulted in high spate in the rivers of Brahmaputra, Teesta, Dharle and Duokhummat which badly affected 33 eastern unions of the district Rangpur, as reported in newspapers.

Chief amounts of rainfall recorded during the week were:—Satkhira and Sylhet 2" each on the 4th; Cox's Bazar 6" on the 7th; Cox's Bazar 9", Chittagong 7" and Maijdee Court 3" on the 8th; Rangamati 3" and Brahmanbaria 2" on the 9th and Rangamati, Comilla, Brahmanbaria and Sirajganj 3" each on the 10th.

Day temperatures were slightly above normal in the province on the first two days and only in the northern districts of the province on the next two days of the week. These were slightly below normal in Rajshahi division on the 10th.

WEST PAKISTAN:—Three feeble western disturbances moved across the north of the province and caused scattered thunderstorms or showers in Rawalpindi division on the 4th, 6th and the 8th and in Sargodha and Peshawar divisions on the 4th and the 6th respectively. A few duststorms were also reported from Peshawar and Sargodha divisions on the 8th and the 9th respectively.

Day temperatures were slightly to appreciably above normal over the province throughout the week except in Quetta division on the 4th when these were slightly below normal.

2. CHITTAGONG DIVISION :	Rainfall was fairly widespread on five days and local on two days.
DACCA DIVISION :	Widespread and local rain fell on one day each and fairly widespread and scattered on two days each.
KHULNA DIVISION :	Widespread and fairly widespread rain fell on one day each; local on two days and scattered on three days.
RAJSHAHI DIVISION :	Widespread rain fell on one day, local on three days and scattered on one day.
KASHMIR :	Data not available.
LAHORE DIVISION :	No rain fell during the week.
RAWALPINDI DIVISION :	} Scattered rain fell on one day.
SARGODHA DIVISION :	
MULTAN DIVISION :	} Weather remained dry.
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Weather remained mainly dry.
D. I. KHAN DIVISION :	} Weather remained dry during the week.
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 large excess in Chittagong division; deficient in Dacca, Khulna and Rajshahi divisions and scanty in Rawalpindi and Sargodha divisions whereas no rain fell elsewhere over West Pakistan.

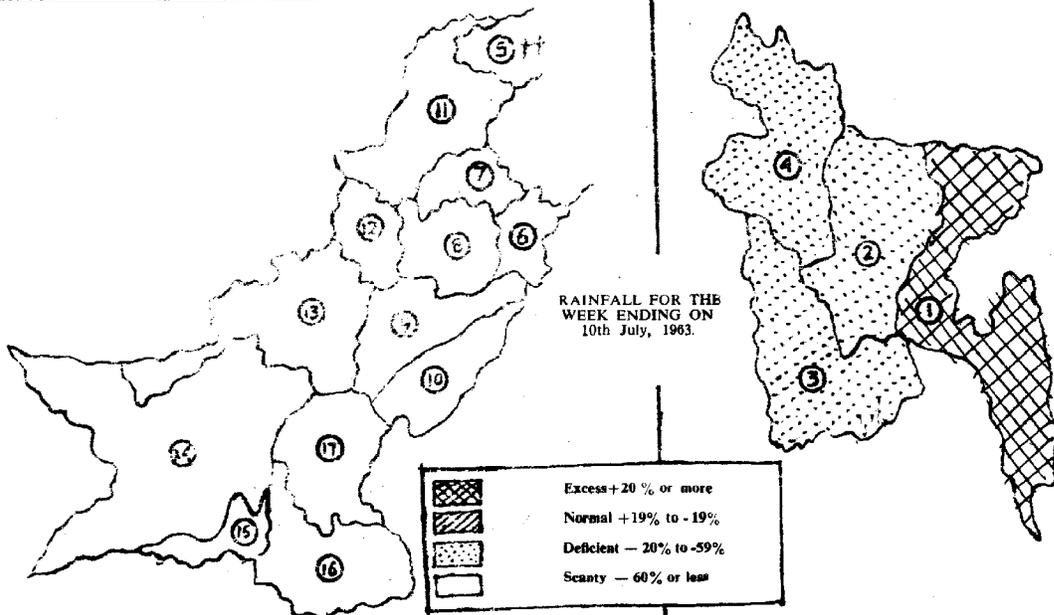
Rainfall for the period from 1st June 1963 to-date was in excess in Chittagong, Dacca and Khulna divisions; normal in Rajshahi division; deficient in Peshawar division and scanty in Lahore, Rawalpindi, Sargodha, Multan and Quetta divisions whereas no rain has fallen so far elsewhere over West Pakistan.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan both for the week and for the period from 1st June, 1963 to-date.

WEEKLY WEATHER REPORT

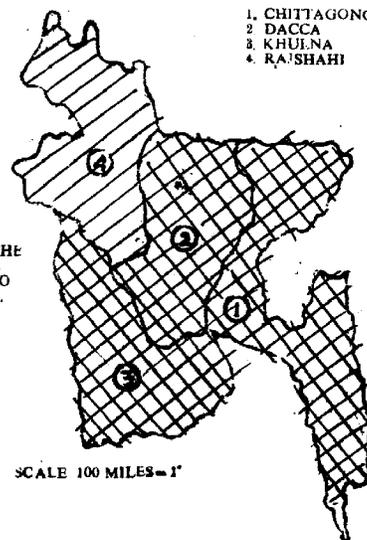
Division	Rainfall for week ending on 10th July, 1963.			Rainfall for Period from 1st June, 1963 to 10th July, 1963.			
	↑ Actual	Normal	*Excess or defect	↑ Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	8.9	4.6	+ 4.3	36.3	27.3	+ 9.0	+ 33
2. Dacca	2.3	3.1	- 0.8	22.7	18.6	+ 4.1	+ 22
3. Khulna	2.1	3.2	- 1.1	22.9	17.9	+ 5.0	+ 28
4. Rajshahi	2.9	4.0	- 1.0	18.9	19.7	-- 0.7	-- 4
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0	1.7	- 1.7	1.7	4.2	- 2.5	- 60
7. Rawalpindi	0.2	2.0	- 1.8	2.3	5.9	- 3.6	- 61
8. Sargodha	0.1	0.7	- 0.7	0.7	2.3	- 1.6	- 69
9. Multan	0	0.6	- 0.6	0.1	1.6	- 1.5	- 93
10. Bahawalpur	0	0.5	- 0.5	0	1.0	- 1.0	- 100
11. Peshawar	0	0.5	- 0.5	1.0	1.3	- 0.3	- 24
12. D. I. Khan	0	0.5	- 0.5	0	1.3	- 1.3	- 100
13. Quetta	0	0.2	- 0.2	0.1	0.5	- 0.5	- 85
14. Kalat	0	0.1	- 0.1	0	0.4	- 0.4	- 100
15. Karachi	0	0.2	- 0.2	0	0.6	- 0.6	- 100
16. Hyderabad	0	0.5	- 0.5	0	1.6	- 1.6	- 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**
6. 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 300 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 17th July, 1963.

—o:O:o—

SUMMARY OF WEATHER

EAST PAKISTAN:—Monsoon continued to be active over the province and caused widespread rainfall over there with occasional very heavy falls in Chittagong division and rather heavy to heavy falls elsewhere during the first five days of the week except in Khulna division between the 11th and the 13th and in Rajshahi division on the 11th when the rainfall was mainly local. These heavy downpours caused a rise in the water levels of the rivers which overflowed their banks and flooded Chittagong district and Comilla town. According to newspaper reports, the floods were unprecedented and engulfed about 70% of Chittagong district and made 80% of the affected population destitute. It took a toll of 16 human lives. The river Gumti after breaking its embankment at several places caused extensive damage to standing 'Aus' crop.

However, monsoon started weakening during the last two days of the week when rain or thundershowers were widespread in Khulna division and scattered to local elsewhere over the province on the 16th and in Chittagong, Khulna and Rajshahi divisions on the 17th.

Chief amounts of rainfall recorded were:—Cox's Bazar 4" and Rangpur 3" on the 11th; Rangamati 9" Rangpur 7" Chittagong 6" Sylhet 4" and Dinajpur 3" on the 12th; Rangamati 8" Chittagong 5", Comilla 4" and Dacca 3" on the 13th; Mymensingh and Dacca 3" each on the 14th; Chittagong 3" on the 15th and Dacca and Satkhira 1" each on the 16th.

Day temperatures were slightly below normal in Rajshahi division on the 13th and the 15th and in Chittagong and Khulna divisions on the 13th and the 15th respectively.

WEST PAKISTAN:—Under the combined influence of the incursion of monsoon easterlies and the passage of two western disturbances across the north of West Pakistan, widespread thunderstorms or showers occurred in Lahore, Rawalpindi and Sargodha divisions between the 12th and the 13th and scattered to local in these divisions and also in Quetta and D. I. Khan divisions on the 14th and scattered only in D. I. Khan and Peshawar divisions on the 15th. The thunderstorm that hit Lahore town in the evening of 12th was accompanied with reported wind speed of 100 m. p. h. According to newspaper reports, it plunged the city into darkness and paralysed all traffic communications, electricity and water supply systems. Weather was otherwise dry over the province during the week except on the first and the last days when two feeble western disturbances moving to the north of the province caused local thunderstorms or showers in Lahore division and scattered in Rawalpindi division on the 11th and in Lahore and Bahawalpur divisions on the 17th.

Chief amounts of rainfall recorded were:—Sialkot 1½" on the 11th; Jhelum, Haripur and Kakul 1" each on the 12th; Lahore 1" on the 13th and Kakul 2" and Murree 1½" on the 14th.

Day temperatures were markedly below normal in Lahore, Sargodha and D. I. Khan divisions and slightly so elsewhere over the province outside Karachi and Hyderabad divisions on the 14th and in the northern divisions on the 13th and the 15th. These were slightly to appreciably above normal over the province outside the southern divisions during the rest of the week.

2. CHITTAGONG DIVISION :	Widespread rain fell on three days, fairly widespread and local on two days each.
DACCA DIVISION :	Rainfall was widespread on four days and local on two days.
KHULNA DIVISION :	Widespread and local rain fell on three days each and scattered on one day.
RAJSHAHI DIVISION :	Rainfall was widespread on three days; fairly widespread, local and scattered on one day each.
KASHMIR :	Data not available.
LAHORE DIVISION :	Widespread rain fell on one day and local on three days.
RAWALPINDI DIVISION :	Rainfall was widespread on one day and scattered on two days.
SARGODHA DIVISION :	Widespread and local rain fell on one day each.
MULTAN DIVISION :	} Weather remained mainly dry.
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Local rain fell on two days and scattered on one day.
D. I. KHAN DIVISION :	Scattered rain fell on two days.
QUETTA DIVISION :	Rainfall was scattered on one day
KALAT DIVISION :	} Weather remained dry during the week.
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 large excess in Chittagong, Dacca and Rajshahi divisions; normal in Khulna and Lahore divisions; deficient in Rawalpindi, Sargodha and D. I. Khan divisions and scanty in Peshawar and Quetta divisions whereas no rain fell elsewhere over West Pakistan.

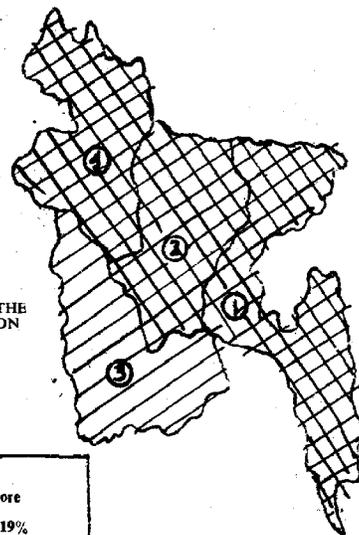
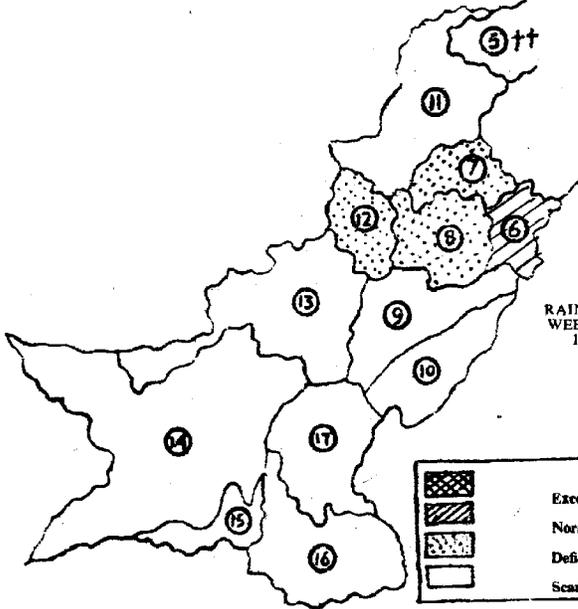
Rainfall for the period from 1st June, 1963 to-date was in excess in Chittagong, Dacca and Khulna divisions; normal in Rajshahi division; deficient in Lahore, Rawalpindi and Sargodha divisions and scanty in Multan, Peshawar, D. I. Khan, Quetta and Hyderabad divisions whereas no rain has fallen so far 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 June, 1963 to-date.

WEEKLY WEATHER REPORT

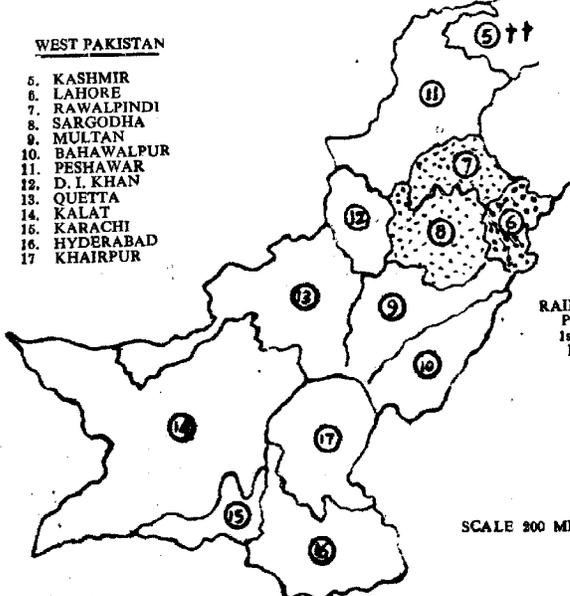
Division	Rainfall for week ending on 17th July, 1963			Rainfall for Period from 1st June, 1963 to 17th July 1963			
	Actual	Normal	*Excess or defect	Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	7.8	4.1	+ 3.8	44.1	31.3	+ 12.8	+ 41
2. Dacca	5.4	2.9	+ 2.6	28.1	21.5	+ 6.5	+ 30
3. Khulna	3.7	3.2	+ 0.5	26.5	21.2	+ 5.5	+ 26
4. Rajshahi	5.8	2.7	+ 3.1	24.7	22.3	+ 2.4	+ 10
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	1.7	1.5	+ 0.1	3.4	5.8	- 2.4	- 42
7. Rawalpindi	1.2	2.3	- 1.1	3.5	8.2	- 4.7	- 57
8. Sargodha	0.6	0.7	- 0.2	1.3	3.0	- 1.7	- 58
9. Multan	0	0.4	- 0.4	0.1	2.0	- 1.9	- 94
10. Bahawalpur	0	0.4	- 0.4	0	1.4	- 1.4	- 100
11. Peshawar	0	1.2	- 1.2	1.0	2.5	- 1.5	- 60
12. D. I. Khan	0.3	0.5	- 0.2	0.3	1.8	- 1.5	- 84
13. Quetta	0.1	0.3	- 0.2	0.2	0.8	- 0.6	- 81
14. Kalat	0	0.1	- 0.1	0	0.5	- 0.5	- 100
15. Karachi	0	0.7	- 0.7	0	1.4	- 1.4	- 100
16. Hyderabad	0	0.7	- 0.7	0	2.3	- 2.3	- 60
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.



WEST PAKISTAN

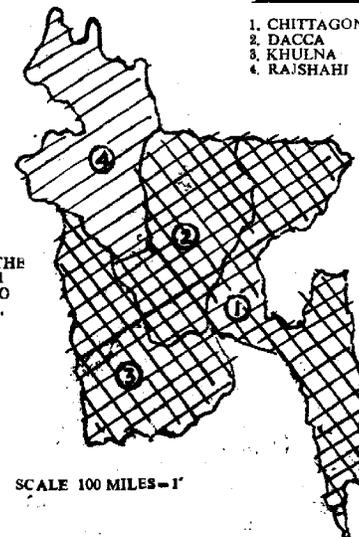
- 5. KASHMIR
- 6. LAHORE
- 7. RAWALPINDI
- 8. SARGODHA
- 9. MULTAN
- 10. BAHAWALPUR
- 11. PESHAWAR
- 12. D. I. KHAN
- 13. QUETTA
- 14. KALAT
- 15. KARACHI
- 16. HYDERABAD
- 17. KHAIRPUR



SCALE 200 MILES—1"

EAST PAKISTAN

- 1. CHITTAGONG
- 2. 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 24th July, 1963.

—o:O:o—

SUMMARY OF WEATHER

EAST PAKISTAN:—Following the movement of a trough of low from North Bay of Bengal to west Bengal and neighbourhood at the beginning of the week, monsoon gradually strengthened over East Pakistan by the middle of the week. As a consequence local to fairly widespread rain fell in Chittagong, Dacca and Khulna divisions with a few heavy to very heavy falls in the first named division and scattered rain in Rajshahi division during the first two days and fairly widespread to widespread rain with locally moderate to heavy falls practically over the whole province during the next three days of the week. The news of these heavy rains were prominently featured by news papers, who described these as a "New Flood Threat". However the passage of an easterly low pressure area into the north Bay of Bengal towards the end of the week caused a slackening of the monsoon activity and only scattered to local rainfall in the province during the last two days.

Chief amount of rainfalls recorded during the week were:—Srimangal 3" and Sylhet 2" on the 18th, Cox's Bazar 5" on the 19th, Narayanganj 3" and Faridpur 2" on the 20th, Rangamati 5", Barisal 4" and Chittagong, Brahmanbaria, Sylhet and Bogra 2" each on the 21st and Brahmanbaria 5" and Srimangal 3" on the 23rd.

Day temperatures were slightly above normal in the province on the last two days of the week.

WEST PAKISTAN:—An active western disturbance moving across the north of the province and simultaneous strengthening of Arabian Sea branch of monsoon current towards the middle of the week caused local to fairly widespread rain or thundershowers with a few moderate to heavy falls in Lahore, Rawalpindi and D. I. Khan divisions on the 21st and practically throughout the northern and central divisions on the 22nd and scattered in Peshawar and Rawalpindi divisions respectively on the 21st and 23rd. A few falls of light rain or drizzle were also reported from coastal Kalat and Karachi divisions on these days. According to news papers, the Islamabad-Murree highway was badly damaged by these first monsoon rains.

Two more western disturbances, which were feeble, moved across the north of West Pakistan at the beginning and towards the end of the week. However these caused only scattered thunderstorms or showers in Lahore, Rawalpindi, Bahawalpur and Peshawar divisions during the first two days and in Quetta, D. I. Khan and Peshawar divisions during the last two days.

Chief amounts of rainfall recorded during the week were:—Murree 1½" on the 19th; Sialkot, Murree and Bannu 1½" each on the 21st; Lahore 3", Sialkot 3" Lyallpur and Haripur 1½" each on the 22nd and Murree 2" on the 23rd.

Day temperatures were generally appreciably above normal in the northern and central divisions during the first four days and appreciably to markedly below normal in these divisions during the rest of the week.

2. CHITTAGONG DIVISION :	Rainfall was widespread, fairly widespread and scattered on one day each and local on four days.
DACCA DIVISION :	Widespread rain fell on three days, fairly widespread and local on one day each and scattered on two days.
KHULNA DIVISION :	Rainfall was widespread and local on one day each, fairly widespread on three days and scattered on two days.
RAJSHAH DIVISION :	Widespread, fairly widespread and local rain fell on one day each and was scattered on four days.
KASHMIR :	Data not available.
LAHORE DIVISION :	Widespread, local and scattered rainfall on one day each.
RAWALPINDI DIVISION :	Rainfall was fairly widespread and local on one day each and scattered on two days.
SARGODHA DIVISION :	Widespread rain fell on one day.
MULTAN DIVISION :	Fairly widespread rain fell on one day.
BAHAWALPUR DIVISION :	No rain fell during the week.
PESHAWAR DIVISION :	Rainfall was local on one day and scattered on four days.
D. I. KHAN DIVISION :	Local and scattered rain fell on one day each.
QUETTA DIVISION :	Rainfall was local on one day and scattered on two days.
KALAT DIVISION :	} Weather remained mainly dry.
KARACHI DIVISION :	
HYDERABAD DIVISION :	
KHAIRPUR DIVISION :	} No rain fell during the week.

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

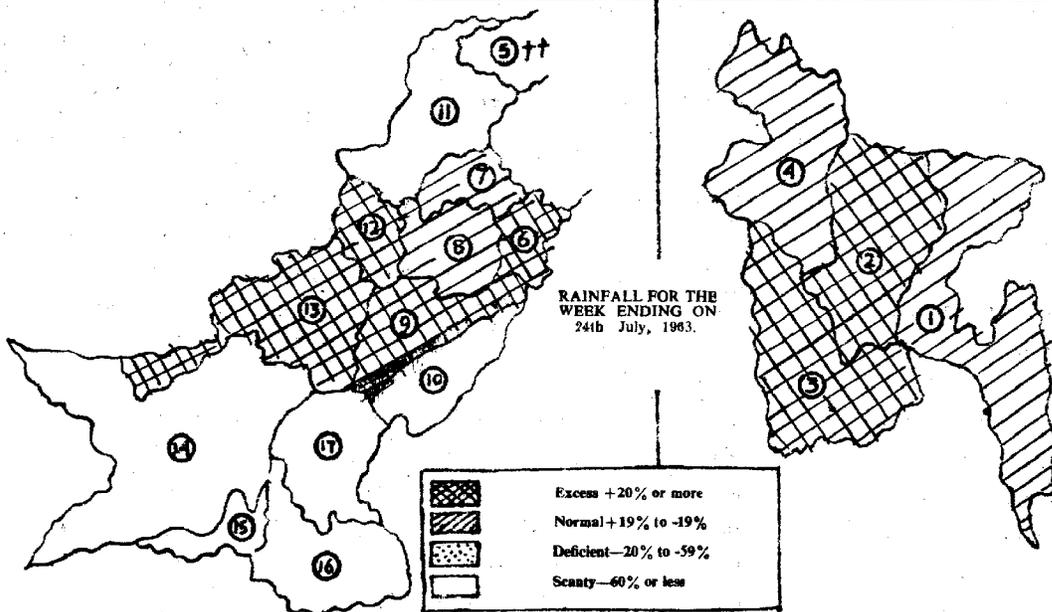
The rainfall for the period from 1st June 1963 to-date was in excess in Chittagong, Dacca and Khulna divisions; normal in Rajshahi and Lahore divisions; deficient in Rawalpindi, Sargodha and Quetta divisions and scanty elsewhere over West Pakistan outside Hyderabad and Khairpur divisions where no rain has fallen so far.

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 1963 to-date.

WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending on 24th July, 1963.			Rainfall for Period from 1st June, 1963 to 24th July, 1963.			
	†Actual	Normal	*Excess or defect	†Actual	Normal	Excess or defect	
						Inches	Per-Cent
1. Chittagong	4.8	4.5	+ 0.3	48.8	35.9	+ 13.1	+ 36
2. Dacca	3.7	3.0	+ 0.6	31.7	24.6	+ 7.2	+ 29
3. Khulna	4.5	3.0	+ 1.5	31.1	24.1	+ 7.0	+ 29
4. Rajshahi	2.3	2.6	-- 0.3	27.1	24.9	+ 2.1	+ 9
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	3.2	1.5	+ 1.7	6.6	7.3	-- 0.7	-- 9
7. Rawalpindi	2.8	2.5	+ 0.3	6.3	10.7	-- 4.4	-- 41
8. Sargodha	0.9	0.8	+ 0.1	2.2	3.8	-- 1.6	-- 43
9. Multan	0.8	0.4	+ 0.4	0.9	2.3	-- 1.4	-- 62
10. Bahawalpur	0	0.5	-- 0.4	0	1.8	-- 1.8	-- 98
11. Peshawar	0	0.3	-- 0.3	1.0	2.8	-- 1.8	-- 64
12. D. I. Khan	0.5	0.3	+ 0.2	0.8	2.1	-- 1.3	-- 64
13. Quetta	0.4	0.3	+ 0.1	0.5	1.1	-- 0.6	-- 52
14. Kalat	0	0.1	-- 0.1	0	0.6	-- 0.6	-- 95
15. Karachi	0	0.5	-- 0.5	0	1.8	-- 1.8	-- 100
16. Hyderabad	0	0.8	-- 0.8	0	3.1	-- 3.1	-- 100
17. Khairpur	0	0.3	-- 0.3	0	1.0	-- 1.0	-- 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.



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. DACCA
- 3. KHULNA
- 4. RAJSHAHI

RAINFALL FOR THE PERIOD FROM 1st June 1963 TO 24th July, 1963.

SCALE 100 MILES=1"

WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 31st July, 1963.

---o:O:o---

SUMMARY OF WEATHER

EAST PAKISTAN : Last week's low pressure area in the north Bay of Bengal while moving inland northwestwards caused strengthening of the monsoon over the region and fairly widespread rain or thundershowers were received during the first three days with locally heavy falls in Chittagong and Rajshahi divisions on the 26th and the 27th. The monsoon slackened thereafter due to the northwest movement of another low from north and adjoining east central Bay of Bengal between the 28th and the 31st. Under its influence fairly widespread rain or thundershowers occurred in the region during the last four days of the week.

Chief amounts of rainfall during the week were: Chittagong 4" and Dinajpur and Cox's Bazar 2" each on the 26th and Bogra 4" and Majidpur 3" on the 27th.

WEST PAKISTAN : A feeble western disturbance while moving away northeastwards across the northern areas of the province and Kashmir caused a few thunderstorms in Peshawar division and light rain in D. I. Khan division on the first day of the week. Another western disturbance which also moved across the extreme north of the province towards the middle of the week caused scattered rain or thundershowers with rather heavy falls in Rawalpindi and Peshawar divisions on the 28th. During the later part of the week deflected monsoon and easterly winds started penetrating into the northern areas of the province due to the northwest movement of two low pressure areas from North Bay of Bengal. Of these the first one reached southeast Rajasthan and neighbourhood at the end of the week. Simultaneously three active western disturbances moved eastwards across the north of the province on the last three days of the week. Under their combined influence rain or thundershowers were fairly widespread in Rawalpindi and Bahawalpur divisions on the 31st and scattered to local in Rawalpindi division during the preceding two days, in Peshawar division between the 29th and the 31st, in Quetta division on the 29th, in Lahore, Sargodha and D. I. Khan divisions on the 30th and in Multan, Quetta, Hyderabad and Khairpur divisions on the last day of the week. A few heavy falls were reported from Rawalpindi and Peshawar divisions on the 29th, and only from Rawalpindi division on the 31st.

Chief amounts of rainfall during the week were: Murree and Kakul 1½" each on the 28th; Haripur 4", Rawalpindi 2" and Kakul 1½" on the 29th; and Murree 2" and Rawalpindi 1½" on the 31st.

Day temperatures were markedly above normal in Peshawar division on the 26th and were otherwise appreciably above normal in most of the northern and central parts of the province during the first three days of the week. These were slightly above normal in the region on the 28th and appreciably below normal in Lahore, Rawalpindi, Sargodha and Peshawar divisions on the 31st.

2. CHITTAGONG DIVISION :	Rainfall was widespread on one day and fairly widespread and local on three days each.
DACCA DIVISION :	Rainfall was widespread and scattered on one day each, fairly widespread on two days and local on three days.
KHULNA DIVISION :	Widespread rain fell on two days, fairly widespread on four days and local on one day.
RAJSHAHI DIVISION :	Rainfall was widespread and local on two days each and fairly widespread on three days.
KASHMIR :	Data not available.
LAHORE DIVISION :	No rain fell during the week.
RAWALPINDI DIVISION :	Rainfall was fairly widespread and scattered on one day each and local on two days.
SARGODHA DIVISION :	} Local rain fell on one day.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Rainfall was local and scattered on two days each.
D. I. KHAN DIVISION :	} Scattered rain fell on one day.
QUETTA DIVISION :	
KALAT DIVISION :	} No rain fell during the week.
KARACHI DIVISION :	
HYDERABAD DIVISION :	Rainfall was local on one day.
KHAIRPUR DIVISION :	No rain fell during the week.
JUNAGADH :	Data not available.

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

Rainfall for the period from 1st June, 1963, to-date was in excess in Chittagong, Dacca and Khulna divisions, normal in Rajshahi division, deficient in Lahore, Rawalpindi and Sargodha divisions and scanty in Multan, Bahawalpur, Peshawar, D. I. Khan, Quetta, Kalat and Hyderabad divisions. No rain fell in 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, 1963 to-date.

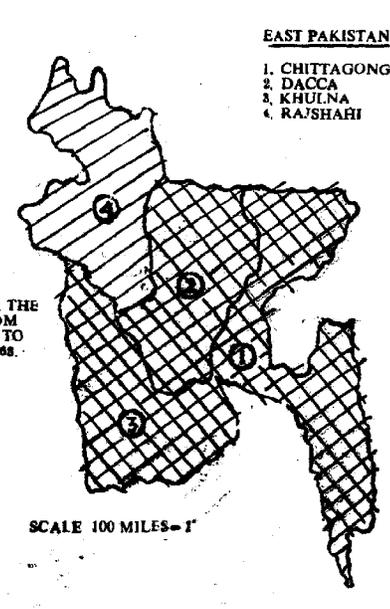
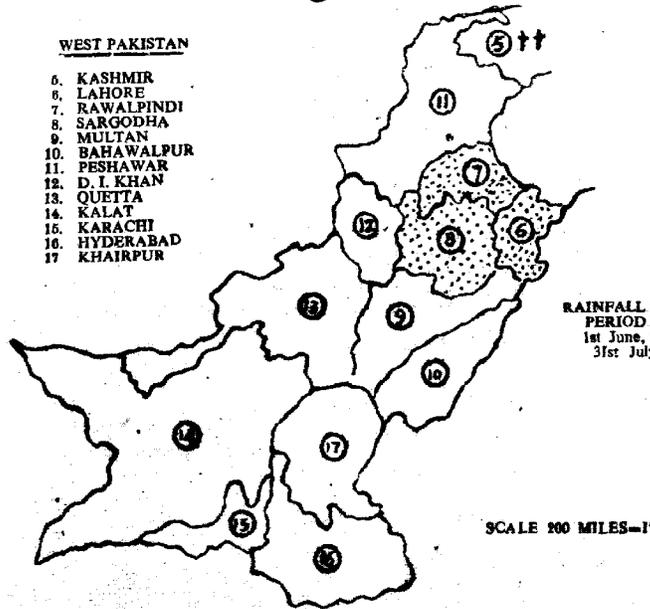
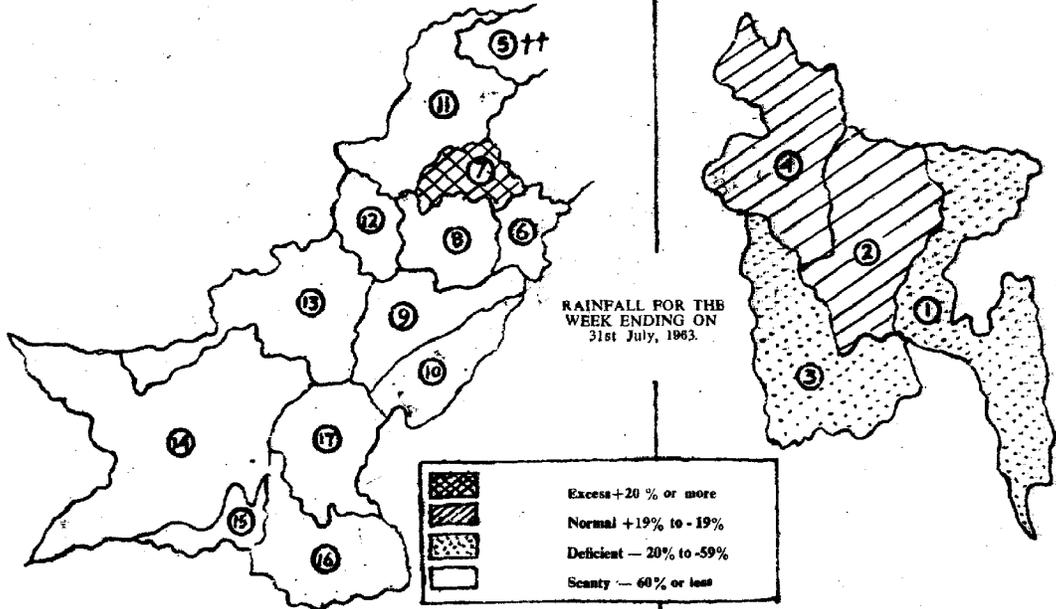
Karachi—11
The 31st July, 1963

SIBTE NABI NAQVI
Director, Meteorological Service.

WEEKLY WEATHER REPORT

Division	Rainfall for week ending on 31st July, 1963.			Rainfall for Period from 1st June, 1963 to 31st July 1963.			
	Actual	Normal	*Excess or defect	Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	4.1	5.6	- 1.4	53.1	41.5	+ 11.6	+ 28
2. Dacca	2.7	3.3	- 0.6	34.4	27.8	+ 6.6	+ 24
3. Khulna	2.4	3.3	- 0.9	33.5	27.4	+ 6.1	+ 22
4. Rajshahi	3.6	3.3	+ 0.3	30.6	28.2	+ 2.4	+ 9
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0	1.8	- 1.8	6.6	8.4	- 1.8	- 22
7. Rawalpindi	4.5	2.7	+ 1.8	10.7	13.4	- 2.6	- 20
8. Sargodha	0.2	0.9	- 0.7	2.4	4.7	- 2.3	- 50
9. Multan	0.2	0.7	- 0.5	1.1	3.0	- 1.9	- 64
10. Bahawalpur	0.1	0.9	- 0.8	0.1	2.7	- 2.6	- 94
11. Peshawar	0	0.4	- 0.4	1.0	3.2	- 2.2	- 69
12. D. I. Khan	0	0.5	- 0.5	0.8	2.7	- 1.9	- 71
13. Quetta	0	0.4	- 0.4	0.5	1.5	- 1.0	- 65
14. Kalat	0	0.1	- 0.1	0	0.8	- 0.7	- 96
15. Karachi	0	0.5	- 0.5	0	2.3	- 2.3	- 100
16. Hyderabad	0.1	0.6	- 0.4	0.1	3.7	- 3.6	- 96
17. Khairpur	0	0.2	- 0.2	0	1.2	- 1.2	- 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.



- 6. 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

WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 7th August, 1963.

—oP0to—

SUMMARY OF WEATHER

EAST PAKISTAN:—A wave of low pressure moved across East Pakistan from the East and strengthened the monsoon between the 3rd and 5th when fairly widespread rain fell in the province with heavy falls locally in almost all the divisions on the 3rd and 4th. Noteworthy amounts of rainfall during the period were Sakhira 4", Comilla and Dinajpur 3" each and Rangpur 2" on the 3rd, Rangamati 3" and Comilla, Brahmanbaria and Barisal 2" each on the 4th. The monsoon was weak on the remaining days when scattered showers occurred. Sylhet recorded 3" on the 2nd and Majdee Court 2" on the 7th.

Day temperatures were generally normal over the region during the week.

WEST PAKISTAN:—The easterly low pressure wave which had moved across north Bay of Bengal at the end of the previous week and also the one which caused strengthening of monsoon over East Pakistan towards middle of current week both moved as far as central and northwestern parts of India before becoming unimportant. These caused incursion of the monsoon into West Pakistan during the first two and last two days of the week respectively. As a consequence fairly widespread rain or thundershowers with a few heavy falls occurred in Hyderabad division on the 2nd, local in Peshawar division on the preceding day and in Lahore, Rawalpindi and Karachi divisions on the 6th and scattered otherwise over the province outside Sargodha and Multan divisions during this period. Two feeble western disturbances moving across the north of province in the intervening period accentuated the seasonal trough of low pressure and caused scattered thunder-storms or showers in Peshawar, Quetta and Khairpur divisions on the 3rd and local in Rawalpindi division and scattered in Bahawalpur and Peshawar divisions on the 5th.

Chief amounts of rainfall during the week were:—Murree 2" and Kakul 1½" on the 1st; Nagarparkar, Umerkot, Badin and Kashmore 2" each on the 2nd; Campbellpur 2" on the 5th and Rawalpindi 3" on the 6th.

Day temperatures were appreciably above normal in the northern areas of the province on the 4th and over the region outside Kalat division on the 5th.

2. CHITTAGONG DIVISION :	Rainfall was widespread on one day, fairly widespread on four days and local on two days.
DACCA DIVISION :	Rainfall was widespread on one day, fairly widespread on two days and scattered on three days.
KHULNA DIVISION :	Widespread rain fell on three days, fairly widespread on one day and local on two days.
RAJSHAHI DIVISION :	Rainfall was widespread on one day, fairly widespread on two days and scattered on four days.
KASHMIR :	Data not available.
LAHORE DIVISION :	Rainfall was local on one day.
RAWALPINDI DIVISION :	Local and scattered rain fell on two days each.
SARGODHA DIVISION :	} No rain fell during the week.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	Rainfall was scattered on one day.
PESHAWAR DIVISION :	Local rain fell on one day and scattered on four days.
D. I. KHAN DIVISION :	Weather remained mainly dry during the week.
QUETTA DIVISION :	Rainfall was scattered on two days.
KALAT DIVISION :	Weather remained mainly dry during the week.
KARACHI DIVISION :	Local rain fell on one day and scattered on another day.
HYDERABAD DIVISION :	Rainfall was fairly widespread and scattered on one day each.
KHAIRPUR DIVISION :	Scattered rain fell on three days.
JUNAGADH :	Data not available.

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

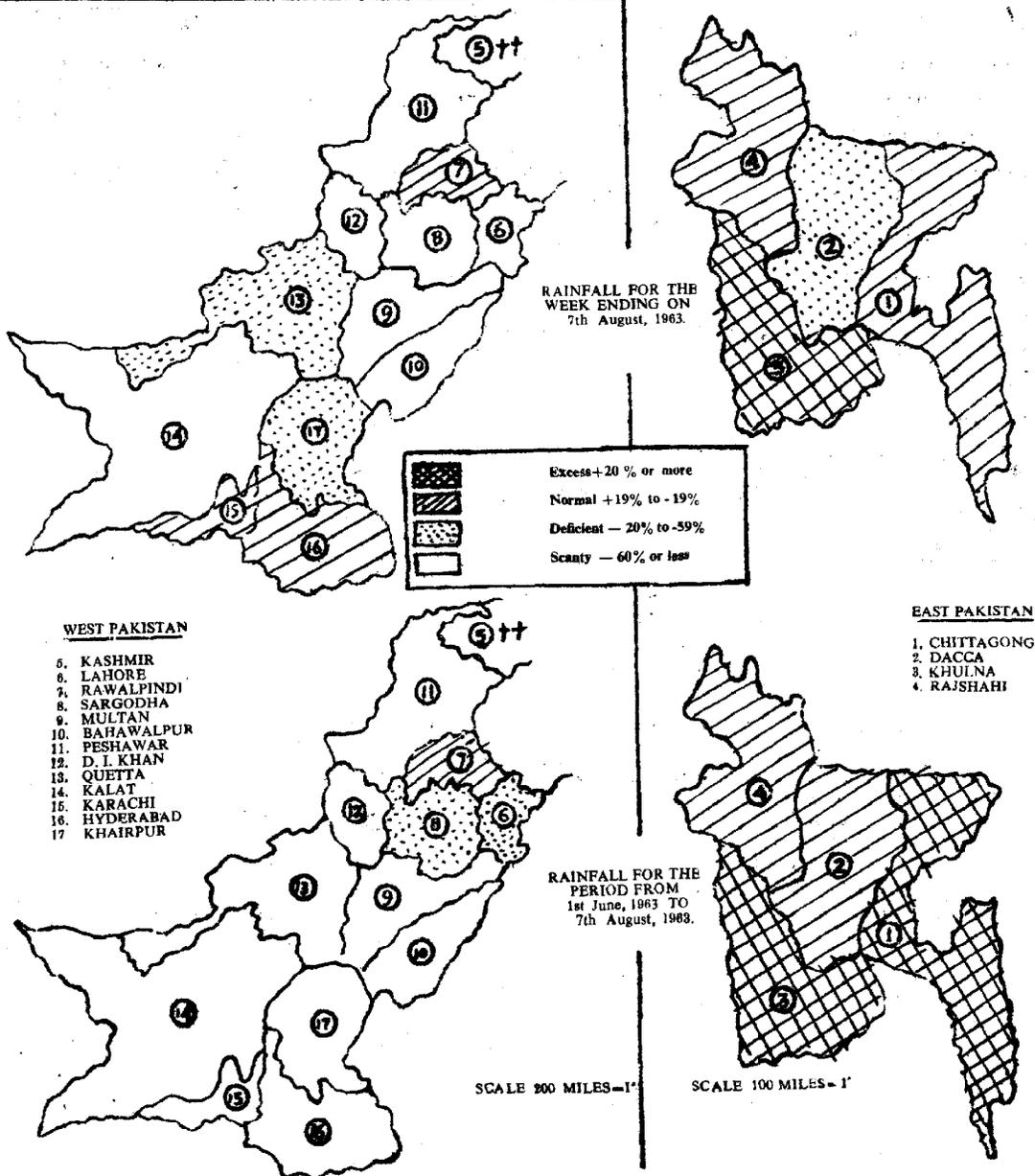
Rainfall for the period from 1st June 1963 to-date was in excess in Chittagong and Khulna divisions, normal in Dacca, Rajshahi and Rawalpindi divisions, deficient in Lahore and Sargodha divisions and scanty elsewhere over West Pakistan.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June, 1963 to-date

WEEKLY WEATHER REPORT

Division	Rainfall for week ending on 7th August, 1963.			Rainfall for Period from 1st June, 1963 to 7th August, 1963.			
	Actual	Normal	*Excess or defect	Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	3.9	4.4	- 0.5	57.0	45.9	+ 11.1	+ 24
2. Dacca	1.8	3.0	- 1.2	36.2	30.8	+ 5.4	+ 18
3. Khulna	3.9	2.9	+ 1.1	37.4	30.2	+ 7.1	+ 24
4. Rajshahi	3.0	2.9	+ 0.1	33.6	31.1	+ 2.5	+ 8
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0.3	1.7	- 1.3	6.9	10.1	- 3.1	- 31
7. Rawalpindi	3.0	2.6	+ 0.4	13.7	16.0	- 2.3	- 14
8. Sargodha	0	0.8	- 0.8	2.4	5.5	- 3.2	- 57
9. Multan	0	0.7	- 0.7	1.1	3.7	- 2.7	- 71
10. Bahawalpur	0.1	0.5	- 0.5	0.2	3.2	- 3.1	- 94
11. Peshawar	0.2	1.0	- 0.8	1.2	4.2	- 3.0	- 72
12. D. I. Khan	0	0.6	- 0.6	0.8	3.3	- 2.5	- 75
13. Quetta	0.1	0.3	- 0.2	0.7	1.8	- 1.1	- 63
14. Kalat	0	0.1	- 0.1	0.1	0.9	- 0.8	- 94
15. Karachi	0.2	0.2	0	0.2	2.5	- 2.3	- 91
16. Hyderabad	0.9	0.4	+ 0.5	1.1	4.1	- 3.0	- 74
17. Khairpur	0.1	0.4	- 0.3	0.1	1.6	- 1.5	- 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.



WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 14th August, 1963.

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SUMMARY OF WEATHER

EAST PAKISTAN: An easterly low pressure area moved into the head Bay of Bengal in the beginning of the week and concentrated in to a depression by the 9th morning when it was centred at 0300 hours GMT within a degree of latitude 19.5°N and longitude 88.5°E. The depression moved north westwards and was centred near Balasore next morning. Thereafter it moved further north westwards and was centred about 100 miles southsoutheast of Benares at 0300 hours GMT on the 11th and about 100 east of Jhansi the next morning. Continuing to move in the same direction it weakened into a well marked low over east Rajasthan by the 13th and lay over northeast Rajasthan the next day. Monsoon strengthened in the wake of this depression and caused widespread rain or thundershowers in the province between the 10th and the 12th with a few heavy falls over there on the 12th and in Dacca and Chittagong divisions a day earlier. It was however weak during the rest of the week when it caused scattered to local rain or thundershowers in the province.

Chief amounts of rainfall during the week were: Maijdee Court 4" on the 8th; Chittagong 4" and Rangamati, Cox's Bazar, Maijdee Court and Comilla 2" each on the 11th and Chittagong 4" and Maijdee Court 3" on the 12th.

Day temperatures were slightly above normal in the region on the 9th and 10th and to the same extent below normal in Chittagong division on the 11th and in the province the next day.

WEST PAKISTAN: The depression described above under East Pakistan was responsible for continued monsoon incursion in the northeastern parts of West Pakistan during the first six days of the week. With the simultaneous passage of four western disturbances across the north of the province, local to fairly widespread rain or thundershowers occurred in Lahore and Rawalpindi divisions on the 8th, 9th, 11th and 12th and in Peshawar and Multan divisions respectively on the 12th and the 13th with rather heavy falls outside Lahore division. Scattered rain or thundershowers also occurred in Rawalpindi and Sargodha divisions respectively on the 10th and the 12th, in Peshawar division between the 8th and the 12th and again on the 13th, in D. I. Khan division on the 9th, 12th and 13th and in Quetta division only on the 13th. A few thunderstorms were also reported from Bahawalpur division on the 8th, 10th and 12th and from Sargodha and Rawalpindi divisions respectively on the 11th and the 13th.

Chief amounts of rainfall during the week were: Jhelum and Rawalpindi 2" each and Hariapur 1½" on the 8th; Rawalpindi 1½" on the 10th and 3" on the 11th; Jhelum and Hariapur 1½" each on the 12th and Leiah 3" and Multan 2" on the 13th.

Day temperatures were slightly above normal in the northern and central areas during the first five days of the week and in Karachi and Hyderabad divisions on the last two days of the week when these were slightly to appreciably below normal in Lahore, Sargodha, Rawalpindi and Multan divisions.

2. CHITTAGONG DIVISION :	Rainfall was widespread on one day, fairly widespread, local and scattered on two days each.
Dacca DIVISION :	Rainfall was widespread on four days, local on one day and scattered on two days.
KHULNA DIVISION :	Widespread rain fell on four days, fairly widespread on two days and scattered on one day.
RAJSHAHI DIVISION :	Rainfall was fairly widespread on two days, local on three days and scattered on one day.
KASHMIR :	Data not available.
LAHORE DIVISION :	Rainfall was widespread on one day and local on three days.
RAWALPINDI DIVISION :	Fairly widespread and scattered rain fell on two days each and local on one day.
SARGODHA DIVISION :	Scattered rain fell on one day.
MULTAN DIVISION :	Rainfall was fairly widespread on one day.
BAHAWALPUR DIVISION :	No rain fell during the week.
PESHAWAR DIVISION :	Local rain fell on one day and scattered on four days.
D. I. KHAN DIVISION :	Rainfall was scattered on three days.
QUETTA DIVISION :	Scattered rain fell on one day.
KALAT DIVISION :	} No rain fell during the week.
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 Rawalpindi and Multan divisions, normal in Chittagong, Khulna and Lahore divisions, deficient in Dacca, Rajshahi, D. I. Khan and Quetta divisions and scanty in Sargodha, Bahawalpur and Peshawar divisions. No rain fell in Kalat, Karachi, Hyderabad and Khairpur divisions.

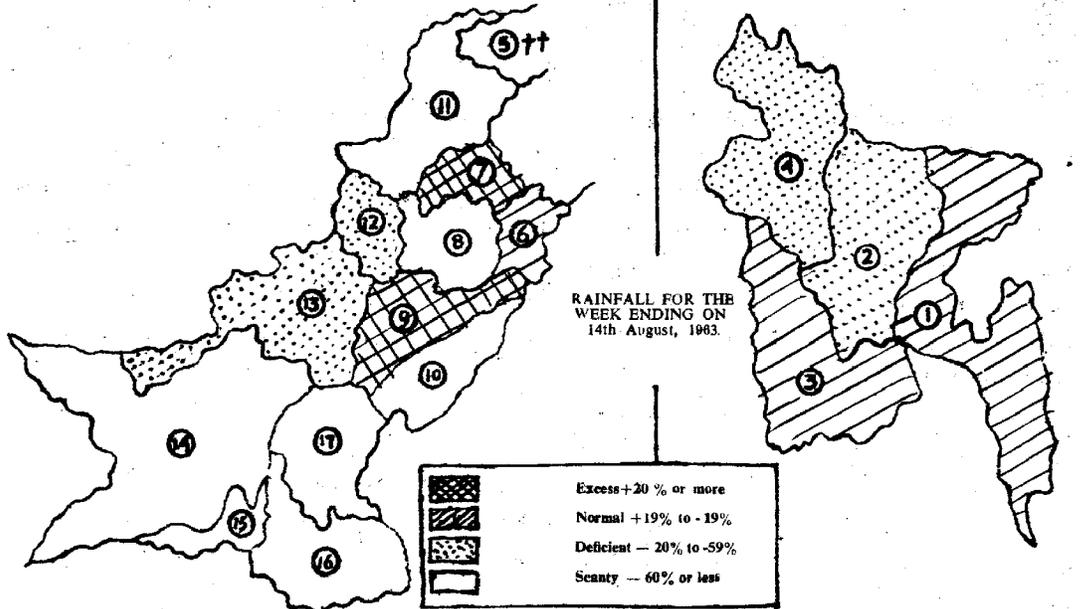
Rainfall for the period from 1st June, 1963 to-date was in excess in Chittagong and Khulna divisions, normal in Dacca, Rajshahi and Rawalpindi divisions, deficient in Lahore and Multan divisions and scanty elsewhere in West Pakistan.

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, 1963 to-date.

WEEKLY WEATHER REPORT

Division	Rainfall for week ending on 14th August, 1963.			Rainfall for Period from 1st June, 1963 to 14th August, 1963.			
	Actual	Normal	*Excess or defect	Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	5.7	4.8	+ 0.9	62.7	50.7	+ 12.0	+ 24
2. Dacca	2.4	3.1	- 0.7	38.6	33.9	+ 4.7	+ 11
3. Khulna	2.5	3.0	- 0.6	39.8	33.3	+ 6.6	+ 20
4. Rajshahi	1.8	2.8	- 0.9	35.4	33.8	+ 1.6	+ 5
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	1.8	1.8	- 0.1	8.7	11.9	- 3.2	- 27
7. Rawalpindi	4.8	3.3	+ 1.5	18.5	19.3	- 0.8	- 4
8. Sargodha	0.1	0.9	- 0.7	2.5	6.4	- 3.9	- 61
9. Multan	1.0	0.8	+ 0.2	2.1	4.5	- 2.5	- 54
10. Bahawalpur	0	0.4	- 0.4	0.2	3.7	- 3.5	- 94
11. Peshawar	0.1	0.9	- 0.8	1.3	5.1	- 3.8	- 75
12. D. I. Khan	0.3	0.4	- 0.1	1.1	3.7	- 2.6	- 70
13. Quetta	0.1	0.3	- 0.1	0.8	2.1	- 1.3	- 62
14. Kalat	0	0.1	- 0.1	0.1	1.0	- 0.9	- 95
15. Karachi	0	0.3	- 0.3	0.2	2.8	- 2.6	- 92
16. Hyderabad	0	0.3	- 0.3	1.1	4.5	- 3.4	- 76
17. Khairpur	0	0.3	- 0.3	0.1	1.9	- 1.8	- 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.



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 21st August, 1963.

—o:O:o—

SUMMARY OF WEATHER

EAST PAKISTAN:—In the wake of an easterly low pressure area that moved inland northwestwards across the North Bay of Bengal during the first two days of the week monsoon activity temporarily increased between the 17th and the 18th when local to fairly widespread rain or thundershowers occurred in the province. Monsoon was otherwise weak in the region on the first six days of the week and caused scattered to local rain or thundershowers in the region. It again became active on the last day of the week and caused local to fairly widespread rain or thundershowers in the region with rather heavy falls at a few places.

Chief amounts of rainfall recorded during the week were: Srimangal $1\frac{1}{2}$ " on the 15th; Sylhet $1\frac{1}{2}$ " on the 18th; Comilla 2" and Sylhet and Rangpur $1\frac{1}{2}$ " each on the 19th; Comilla and Rangpur $1\frac{1}{2}$ " each on the 20th and Khulna 2" and Bogra and Rangpur $1\frac{1}{2}$ " each on the 21st.

Day temperatures were slightly above normal in the region on the 15th and to the same extent below normal in northern Rajshahi division on the last day of the week.

WEST PAKISTAN:—A feeble western disturbance while moving away eastwards across the extreme north of the province caused a few thunderstorms and light rain respectively in Peshawar and Rawalpindi divisions on the 15th and scattered light rain in Lahore division on the 16th. The easterly low pressure area described under East Pakistan continued to move northwestwards across central and northwestern parts of India and lay over east Rajasthan and neighbourhood on the 20th. It weakened thereafter and became unimportant by the morning of the 21st. Under its influence the Bay of Bengal monsoon continued to penetrate into the northern areas of West Pakistan practically throughout the last five days of the week. Simultaneously three western disturbances moved across the extreme north of the region. These caused fairly widespread rain or thundershowers with a few heavy falls in Lahore and Rawalpindi divisions on the 17th and the 20th and in Lahore, Rawalpindi and Sargodha divisions on the last day of the week. Scattered to local rain or thundershowers occurred in these divisions on the 18th and the 19th, in Multan division on the last two days of the week, in Bahawalpur division on the 20th, in Peshawar division between the 17th and the 21st with isolated heavy falls on the 20th, in D. I. Khan division on the 18th and in D. I. Khan and Quetta divisions on the last day of the week. A few thunderstorms were also reported from Bahawalpur and Sargodha divisions respectively on the 19th and the 20th.

Chief amounts of rainfall during the week were: Kakul $1\frac{1}{2}$ " on the 18th and Khushab on the 19th; Rawalpindi 4", Murree and Kakul 2" each and Sialkot and Jhelum $1\frac{1}{2}$ " each on the 20th and Lyallpur $1\frac{1}{2}$ " on the 21st.

Day temperatures were slightly above normal in the region outside Lahore, Rawalpindi and Sargodha divisions between the 17th and the 20th and were to the same extent below normal in the above named divisions on the 18th.

2. CHITTAGONG DIVISION :	Rainfall was fairly widespread on two days and local on five days.
DACCA DIVISION :	Widespread and scattered rain fell on one day each and local on five days.
KHULNA DIVISION :	Rainfall was widespread on one day, fairly widespread on three days and scattered on two days.
RAJSHAHI DIVISION :	Fairly widespread rain fell on one day and local on five days.
KASHMIR :	Data not available.
LAHORE DIVISION :	Rainfall was widespread on two days and local and scattered on one day each.
RAWALPINDI DIVISION :	Fairly widespread rain fell on three days and local and scattered on one day each.
SARGODHA DIVISION :	Rainfall was widespread on one day and local on another day.
MULTAN DIVISION :	Local rain fell on one day and scattered on another day.
BAHAWALPUR DIVISION :	Rainfall was local on one day.
PESHAWAR DIVISION :	Local rain fell on two days and scattered on three days.
D. I. KHAN DIVISION :	Scattered rain fell on two days.
QUETTA DIVISION :	Rainfall was scattered on one day.
KALAT DIVISION :	} No rain fell during the week.
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 Sargodha division, in excess in Rawalpindi division, normal in Rajshahi, Lahore, Multan and Quetta divisions, deficient elsewhere in East Pakistan and in Peshawar division and scanty in D. I. Khan division whereas no rain fell in Bahawalpur, Kalat, Karachi, Hyderabad and Khairpur divisions.

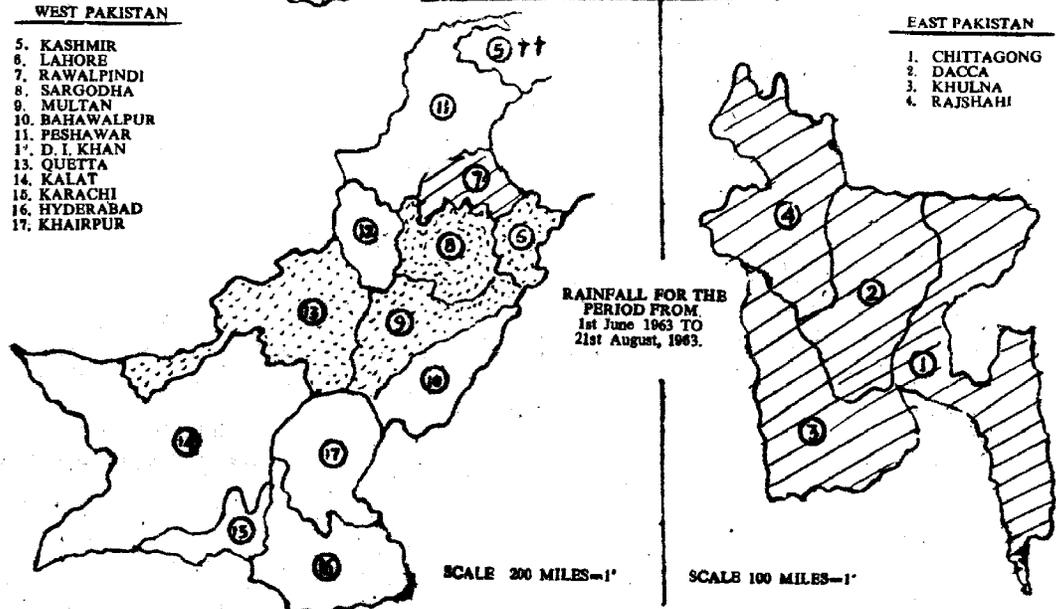
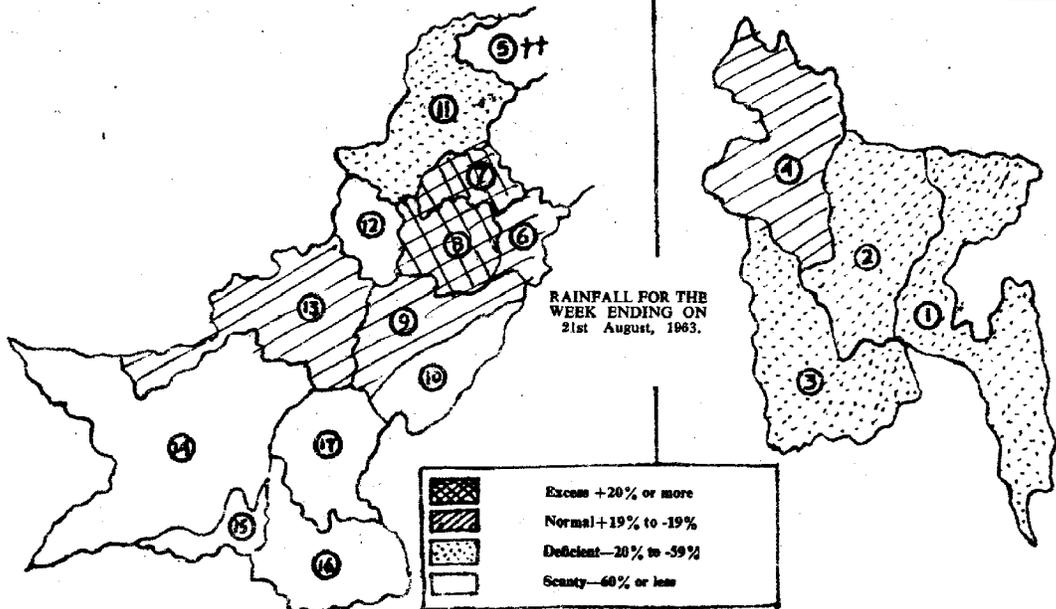
Rainfall for the period from 1st June 1963 to-date was normal in East Pakistan and in Rawalpindi division, deficient in Lahore, Sargodha, Multan and Quetta divisions and scanty elsewhere in West Pakistan.

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, 1963 to-date.

WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending on 21st August, 1963.			Rainfall for Period from 1st June, 1963 to 21st August, 1963.			
	†Actual	Normal	*Excess or defect	†Actual	Normal	Excess or defect	
						Inches	Per—Ceni
1. Chittagong	2.4	4.5	— 2.1	65.1	55.2	+ 9.9	+ 18
2. Dacca	1.7	3.1	— 1.3	40.3	37.0	+ 3.3	+ 9
3. Khulna	1.7	2.9	— 1.2	41.6	36.2	+ 5.4	+ 15
4. Rajshahi	2.5	2.8	— 0.3	37.9	36.7	+ 1.3	+ 3
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	1.6	1.7	— 0.1	10.3	14.1	— 3.8	— 27
7. Rawalpindi	4.2	2.7	+ 1.4	22.7	22.1	— 0.6	+ 3
8. Sargodha	1.9	0.9	+ 1.0	4.4	7.3	— 2.9	— 40
9. Multan	0.4	0.4	0.	2.5	4.9	— 2.4	— 49
10. Bahawalpur	0	0.4	— 0.4	0.2	4.1	— 3.9	— 95
11. Peshawar	0.5	0.8	— 0.3	1.7	5.8	— 4.1	— 70
12. D. I. Khan	0	0.3	— 0.3	1.1	4.0	— 2.9	— 72
13. Quetta	0.2	0.2	0	1.0	2.3	— 1.3	— 87
14. Kalat	0	0.1	— 0.1	0.1	1.0	— 1.0	— 95
15. Karachi	0	0.3	— 0.3	0.2	3.0	— 2.8	— 29
16. Hyderabad	0	0.4	— 0.4	1.1	5.3	— 4.3	— 79
17. Khairpur	0	0.2	— 0.2	0.1	2.1	— 2.0	— 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.



- 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 28th August, 1963.

—o:O:o—

SUMMARY OF WEATHER

EAST PAKISTAN:—Monsoon activity gradually declined during the first six days of the week due to the passage of two easterly low pressure areas across the North Bay of Bengal. As a consequence fairly widespread rain or thundershowers occurred in the region on the 22nd and local rain or thundershowers over there between the 23rd and the 27th. Thereafter monsoon activity increased in the region, as the last of the two easterly low pressure areas moved inland northwest-wards. Under its influence local to fairly widespread rain or thundershowers occurred in the province outside Rajshahi division on the 28th.

Chief amounts of rainfall during the week were: Sylhet 1" on the 24th; Khulna and Dinajpur 1½" each and Maijdee Court 1" on the 25th; Cox's Bazar, Srimangal and Mymensingh 1" each on the 26th and Maijdee Court on the 27th and again on the 28th. Day temperatures were generally normal in the region during the week except in Khulna division where these were slightly above normal on the 24th and the 25th.

WEST PAKISTAN:—An easterly low pressure area that moved to southwest Uttar Pradesh and northern Madhya Bharat on the last day of the previous week gradually became unimportant over northeast Rajasthan by the 22nd morning. This caused an incursion of easterlies and Bay of Bengal monsoon in the northern areas of the province. Simultaneously two western disturbances moved across the northern areas of the province between the 22nd and the 24th. Under their influence rain or thundershowers were widespread in Rawalpindi and Bahawalpur divisions on the 23rd and scattered to local in Lahore and Rawalpindi divisions on the 22nd, in Multan and Peshawar divisions on the 23rd and in Multan, D. I. Khan and Quetta divisions on the 24th. A few thunderstorms were also reported from Peshawar division on the 22nd and the 24th and from Quetta and Rawalpindi divisions respectively on the 23rd and the 24th. Another western disturbance approached Afghanistan on the 25th and moved away east-northeastwards across northern Peshawar division and Kashmir by the 28th. This caused local to fairly widespread rain or thundershowers in Rawalpindi division on the last two days of the week and scattered in Peshawar division on the 27th. A few thunderstorms were reported from Rawalpindi and Peshawar divisions on the 26th, only from Lahore division on the 27th and from Multan, Bahawalpur and Peshawar divisions on the last day of the week. A few moderate to heavy falls also occurred in Rawalpindi, Peshawar and Bahawalpur divisions on the 23rd and in Peshawar and Rawalpindi divisions respectively on the 27th and the 28th.

Chief amounts of rainfall during the week were:—Khanpur 2", Chakdara and Haripur 1½" each and Rawalpindi 1" on the 23rd and Haripur 1½" on the 27th and Rawalpindi on the 28th.

Day temperatures were appreciably below normal in Lahore, Sargodha, Multan and D. I. Khan divisions on the first two days of the week and slightly below normal in the province outside Rawalpindi, Khairpur, Hyderabad and Karachi divisions on the next day. These were slightly above normal in Hyderabad and Karachi divisions practically throughout the week and only in Lahore and Rawalpindi divisions on the last four days of the week.

2. CHITTAGONG DIVISION :	Rainfall was fairly widespread on three days and local on four days.
DACCA DIVISION :	Fairly widespread and local rain fell on two days each and scattered on three days.
KHULNA DIVISION :	Rainfall was fairly widespread and local on three days each and scattered on one day.
RAJSHAHI DIVISION :	Widespread and scattered rain fell on one day each and local on three days.
KASHMIR :	Data not available.
LAHORE DIVISION :	Local rain fell on one day.
RAWALPINDI DIVISION :	Rainfall was widespread and fairly widespread on one day each and local on two days.
SARGODHA DIVISION :	No rain fell during the week.
MULTAN DIVISION :	Local rain fell on two days.
BAHAWALPUR DIVISION :	Rainfall was widespread on one day.
PESHAWAR DIVISION :	Local rain fell on one day and scattered on another day.
D. I. KHAN DIVISION :	} Rainfall was scattered on one day.
QUETTA DIVISION :	
KALAT DIVISION :	} No rain fell during the week.
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 Bahawalpur division, normal in Rawalpindi division, deficient in East Pakistan and in Multan and Quetta divisions and scanty in Lahore, Sargodha and Peshawar divisions. No rain fell in Kalat, D. I. Khan, Karachi, Hyderabad and Khairpur divisions.

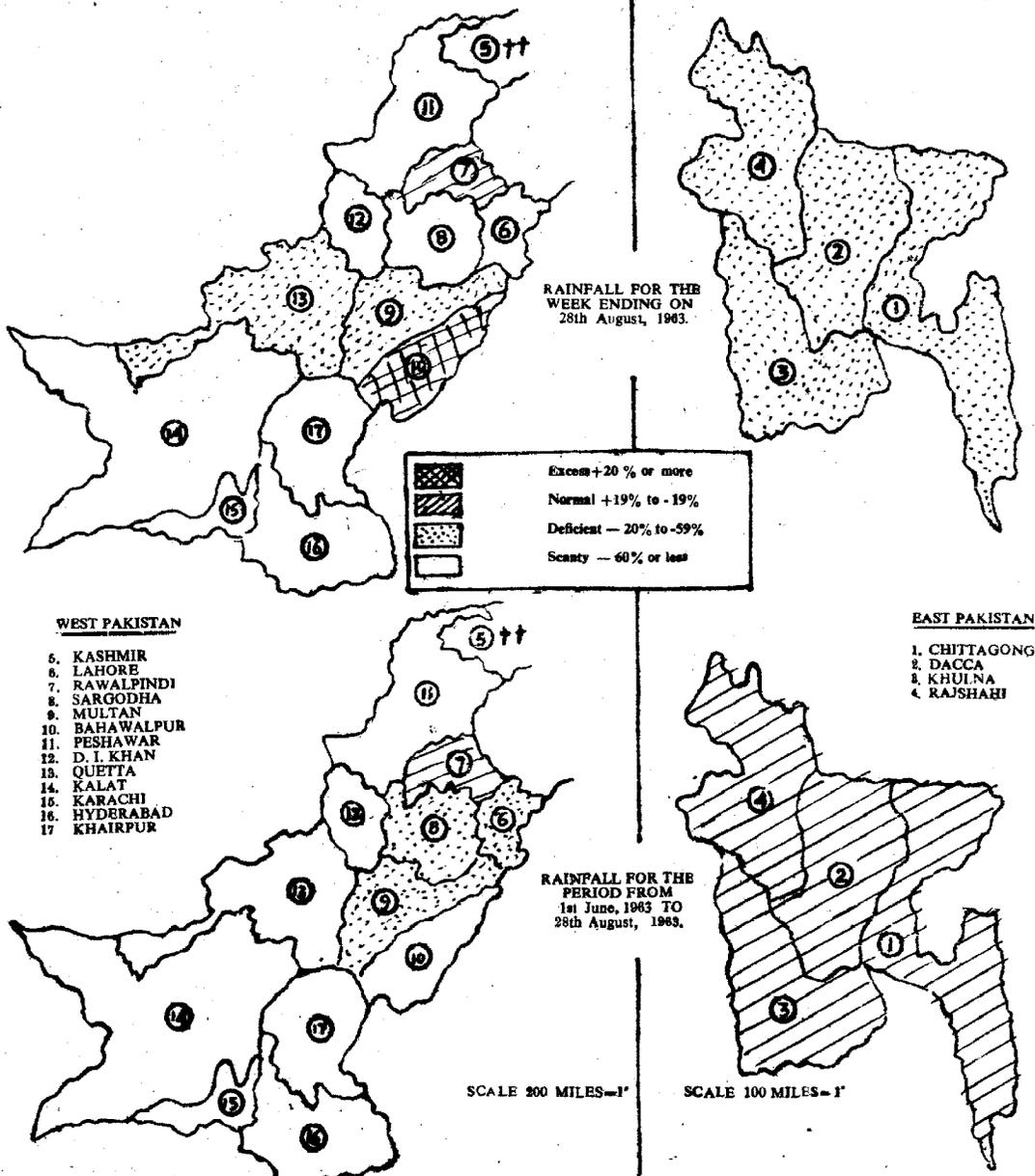
Rainfall for the period from 1st June, 1963 to-date was normal in East Pakistan and in Rawalpindi division, deficient in Lahore, Sargodha and Multan divisions and scanty elsewhere in West Pakistan.

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, 1963 to-date.

WEEKLY WEATHER REPORT

Division	Rainfall for week ending on 28th August, 1963.			Rainfall for Period from 1st June, 1963 to 28th August, 1963.			
	↑ Actual	Normal	*Excess or defect	↑ Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	2.1	4.1	- 2.0	67.2	59.3	+ 7.9	+ 13
2. Dacca	1.3	3.2	- 1.9	41.7	40.6	+ 1.1	+ 3
3. Khulna	1.7	2.9	- 1.1	43.3	39.1	+ 4.3	+ 11
4. Rajshahi	1.3	3.2	- 1.9	39.3	39.9	- 0.6	- 2
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0.3	1.5	- 1.2	10.6	15.6	- 5.0	- 32
7. Rawalpindi	1.7	2.0	- 0.3	24.4	24.1	+ 0.4	+ 1
8. Sargodha	0	0.7	- 0.7	4.4	8.1	- 3.6	- 45
9. Multan	0.1	0.3	- 0.1	2.7	5.2	- 2.6	- 49
10. Bahawalpur	1.0	0.2	+ 0.8	1.2	4.3	- 3.1	- 72
11. Peshawar	0.1	0.5	- 0.4	1.9	6.4	- 4.5	- 71
12. D. I. Khan	0	0.1	- 0.1	1.1	4.1	- 3.0	- 73
13. Quetta	0.1	0.2	- 0.1	1.1	2.4	- 1.4	- 60
14. Kalat	0	0	0	0.1	1.0	- 1.0	- 95
15. Karachi	0	0.1	- 0.1	0.2	3.1	- 2.9	- 93
16. Hyderabad	0	0.3	- 0.3	1.1	5.6	- 4.6	- 81
17. Khairpur	0	0	0	0.1	2.1	- 2.0	- 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 4th September, 1963.

—o:O:o—

SUMMARY OF WEATHER

EAST PAKISTAN:—A well marked easterly low pressure area moved northwestwards across the North Bay of Bengal during the last three days of the week and caused local to widespread rain or thundershowers in the province on these days except for the 2nd when the weather remained dry in Khulna division. Monsoon otherwise remained weak in the province and caused scattered to local rain or thundershowers during the first four days of the week. A few heavy falls were reported from Rajshahi division on the 1st and the 3rd and from Chittagong division on the 4th.

Chief amounts of rainfall during the week were:—Rangpur 3" on the 1st; Sylhet and Dacca 1½" each on the 2nd; Dinajpur 4" and Pabna 2" on the 3rd and Brahmanbaria 2" and Pabna 1½" on the 4th.

Day temperatures were slightly above normal in the province between the 30th and the 2nd and only in Dacca division on the last day of the week.

WEST PAKISTAN:—A trough of low pressure developed over Hyderabad division and adjoining areas on the first day of the week and caused widespread rain or thundershowers in Hyderabad division on the 29th and local rain or thundershowers on the 30th. Another easterly low pressure area that moved northwestwards across central part of India to northwest Rajasthan by the 30th morning caused local rain or thundershowers in Bahawalpur division the same day and fairly widespread rain or thundershowers on the next day. These, thereafter, weakened and gradually became unimportant after causing an incursion of easterlies and Bay of Bengal monsoon in the northern areas of West Pakistan. Simultaneously three western disturbances moved across the northern areas of West Pakistan during the last five days of the week. The first one caused scattered rain or thundershowers in Rawalpindi and Quetta divisions, a few thunderstorms in Sargodha division and light rain in Lahore division on the 31st. The other two in association with the moist easterlies and Bay of Bengal monsoon caused local to widespread rain or thundershowers in Lahore and Rawalpindi divisions between the 1st and the 3rd and scattered to local in Peshawar division on the last four days of the week and in Quetta and Rawalpindi divisions respectively on the 3rd and the 4th. A few thunderstorms were also reported Lahore division on the 4th and from Multan division on the 2nd and the 4th and light rain from Sargodha division on the 1st. Rainfall was heavy in Peshawar and Rawalpindi divisions on the 1st and again in these divisions respectively on the 2nd and the 3rd.

Chief amounts of rainfall recorded during the week were:—Murree 3" and Kakul 2" on the 1st; Haripur 2" on the 2nd and Jhelum 3" on the 3rd.

Day temperatures were slightly above normal in Rawalpindi, Peshawar, Multan, Hyderabad and Karachi divisions on the first two days of the week and in most of the these divisions on the 31st. These were appreciably to markedly below normal in Lahore and adjoining Rawalpindi divisions on the 2nd and slightly below normal in Lahore, D. I. Khan, Multan, and Sargodha divisions on the 31st and the 4th.

2. CHITTAGONG DIVISION :	Widespread and fairly widespread rain fell on one day each and local on five days.
DACCA DIVISION :	Rainfall was widespread, local and scattered on one day each and fairly widespread on three days.
KHULNA DIVISION :	Widespread rain fell on two days and scattered on one day.
RAJSHAHI DIVISION :	Widespread and scattered rain fell on one day each and local on four days.
KASHMIR :	Data not available.
LAHORE DIVISION :	Rainfall was widespread on two days and local on one day.
RAWALPINDI DIVISION :	Fairly widespread and local rain fell on one day each and scattered on three days.
SARGODHA DIVISION :	} No rain fell during the week.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	Rainfall was fairly widespread on one day and scattered on another day.
PESHAWAR DIVISION :	Local rain fell on one day and scattered on three days.
D. I. KHAN DIVISION :	} Scattered rain fell on one day.
QUETTA DIVISION :	
KALAT DIVISION :	} No rain fell during the week.
KARACHI DIVISION :	
HYDERABAD DIVISION :	Widespread and local rain fell on one day.
KHAIRPUR DIVISION :	No rain fell during the week.
JUNAGADH :	Data not available

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

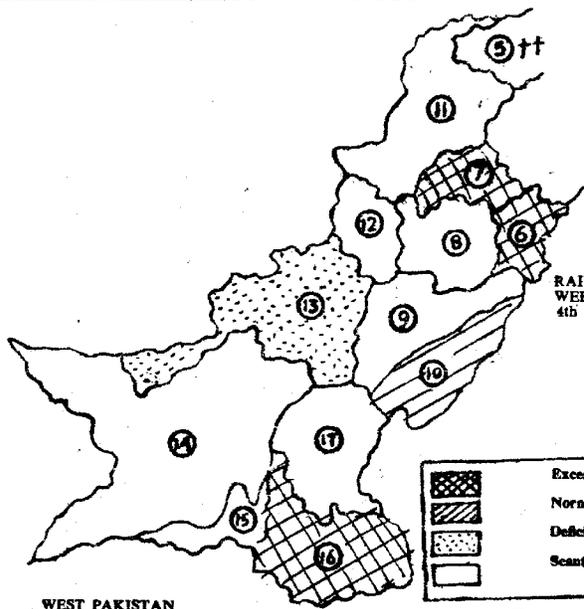
Rainfall for the period from 1st June 1963 to-day was normal in East Pakistan and in Rawalpindi division, deficient in Lahore, Sargodha, Multan and Quetta divisions and scanty elsewhere in West Pakistan.

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, 1963 to-date.

WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending on 4th September, 1963.			Rainfall for Period from 1st June, 1963 to 4th September, 1963.			
	†Actual	Normal	*Excess or defect	†Actual	Normal	Excess or defect	
						Inches	Per-Cent
1. Chittagong	2.3	3.8	- 1.5	69.5	63.1	+ 6.4	+ 10
2. Dacca	1.4	2.8	- 1.4	43.1	43.4	- 0.3	- 1
3. Khulna	1.0	2.5	- 1.5	44.4	41.3	+ 2.8	+ 7
4. Rajshahi	3.0	3.2	- 0.1	42.3	43.1	- 0.8	- 2
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	1.5	1.2	+ 0.4	12.1	16.8	- 4.6	- 28
7. Rawalpindi	2.3	1.8	+ 0.5	26.7	25.9	+ 0.8	+ 3
8. Sargodha	0.1	0.5	- 0.5	4.5	8.6	- 4.1	- 48
9. Multan	0	0.2	- 0.2	2.7	5.4	- 2.7	- 51
10. Bahawalpur	0	0.1	0	1.3	4.4	- 3.1	- 72
11. Peshawar	0.1	0.6	- 0.6	1.9	7.0	- 5.1	- 73
12. D. I. Khan	0	0.3	- 0.2	1.1	4.4	- 3.2	- 74
13. Quetta	0	0.1	- 0.1	1.1	2.6	- 1.4	- 56
14. Kalat	0	0	0	0.1	1.0	- 1.0	- 95
15. Karachi	0	0.1	- 0.1	0.2	3.2	- 2.9	- 93
16. Hyderabad	0.5	0.4	+ 0.1	1.6	6.0	- 4.5	- 74
17. Khairpur	0	0	0	0.1	2.1	- 2.0	- 95
18. Junagadh	—	—	—	—	—	—	—

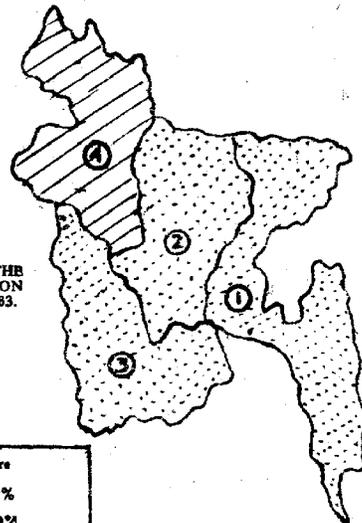
*In the calculation of excesses and defects and their Percentages, rainfall figures are taken correct to 0.01"
 † Rainfall of stations having no normals is not included. †† Data not available.



WEST PAKISTAN

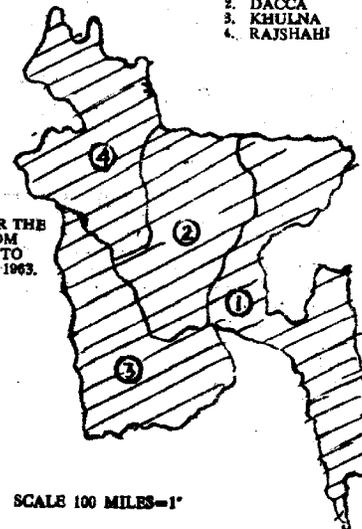
- 5. KASHMIR
- 6. LAHORE
- 7. RAWALPINDI
- 8. SARGODHA
- 9. MULTAN
- 10. BAHAWALPUR
- 11. PESHAWAR
- 12. D. I. KHAN
- 13. QUETTA
- 14. KALAT
- 15. KARACHI
- 16. HYDERABAD
- 17. KHAIRPUR

SCALE 200 MILES=1"



EAST PAKISTAN

- 1. CHITTAGONG
- 2. 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 11th September, 1963.

—o:O:o—

SUMMARY OF WEATHER

EAST PAKISTAN:—A depression that had formed over Thailand moved northwestwards into East Central Bay of Bengal by the 9th morning when it was centred at 0300 hours GMT within half a degree of latitude 18°N and longitude 93½°E. It continued to move in the same direction and was centred near latitude 19°N and longitude 91½°E on the 10th morning and as a deep depression near latitude 21°N and longitude 89°E at 0300 hours GMT on the last day of the week. Under its influence fairly widespread rain or thundershowers occurred in the province outside Rajshahi division the same day with a few heavy falls in Khulna division. Monsoon otherwise remained weak in the province and caused scattered to local rain or thundershowers in the region on the 5th, in Chittagong division on the 6th and again between the 8th and the 10th, in Khulna division on the 7th and the 10th and in Rajshahi division on the 6th. Rainfall was heavy at a few places in Chittagong division on the 5th and the 9th. Scattered thunderstorms were also reported from Chittagong division on the 7th and from Rajshahi division on the last two days of the week.

Chief amounts of rainfall recorded during the week were:—Srimangal 2" and Brahmanbaria 1½" on the 5th; Cox's Bazar 3" on the 9th; Majdee Court 1½" on the 10th and Barisal 2" on the 11th.

Day temperatures were slightly to appreciably above normal in the region during the week outside Khulna and Rajshahi divisions on the 5th.

WEST PAKISTAN:—A well marked low from the east moved northwestwards to central parts of India on the first day of the week. It intensified into a depression, under the influence of the Arabian Sea branch of the monsoon and was centred at 0300 hours GMT of 6th about 60 miles westnorthwest of Bhopal. It moved westnorthwestwards and was centred about 70 miles eastsoutheast of Nagarparkar at 0300 hours GMT on the 7th. It weakened rapidly into a low over Hyderabad division and adjoining areas by the 8th morning and thereafter became unimportant. Under its influence scattered to local rain or thundershowers occurred in Hyderabad division between the 7th and the 9th, in Khairpur division only on the 7th and a few thunderstorms in Karachi and Khairpur divisions respectively on the 7th and the 9th. Four western disturbances also affected the weather over the province during the week. Three of these moved across the northern parts during the first six days. The first two caused fairly widespread rain or thundershowers in Lahore and Rawalpindi divisions on the 5th and scattered to local rain in Multan and Lahore divisions respectively on the 5th and the 6th, in Peshawar division on both these days and in D. I. Khan division on the 7th. The third western disturbance caused fairly widespread rain or thundershowers in Lahore and Rawalpindi divisions and scattered in Peshawar division on the 9th. The fourth western disturbance moved to Afghanistan and adjoining areas of West Pakistan on the last day of the week. It caused scattered rain in Quetta division on the 11th. A few thunderstorms were also reported from Sargodha division on the 6th and the 10th, from Multan and Peshawar divisions on the 10th and from Bahawalpur division on the first three days of the week and again on the 9th and the 11th.

Chief amounts of rainfall recorded during the week were:—Jhelum and Leiah 1½" each on the 5th and Rawalpindi 1" on the 10th.

Day temperatures were slightly above normal over most of the province during last four days of the week excluding Lahore division where these were appreciably below normal on the 10th. These were slightly below normal in Lahore, Sargodha, Multan and D. I. Khan divisions on the 6th and to the same extent above normal in Peshawar, Hyderabad, Karachi, Kalat and Quetta divisions on the next day.

2. CHITTAGONG DIVISION :	Local and scattered rain fell on three days each.
DACCA DIVISION :	Local rain fell on one day and scattered on another day.
KHULNA DIVISION :	Rainfall was widespread and fairly widespread on one day each and scattered on two days.
RAJSHAHI DIVISION :	Scattered rain fell on two days.
KASHMIR :	Data not available.
LAHORE DIVISION :	Rainfall was local on two days and scattered on one day.
RAWALPINDI DIVISION :	Rainfall was widespread on one day and fairly widespread on another day.
SARGODHA DIVISION :	No rain fell during the week.
MULTAN DIVISION :	Local rain fell on one day.
BAHAWALPUR DIVISION :	No rain fell during the week.
PESHAWAR DIVISION :	Rainfall was scattered on three days.
D. I. KHAN DIVISION :	} Scattered rain fell on one day.
QUETTA DIVISION :	
KALAT DIVISION :	
KARACHI DIVISION :	} No rain fell during the week.
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 normal in Rawalpindi and Quetta divisions, deficient in Chittagong, Khulna and Lahore divisions and scanty in Dacca, Rajshahi, Multan, Peshawar, D. I. Khan and Hyderabad divisions. No rain fell elsewhere in West Pakistan.

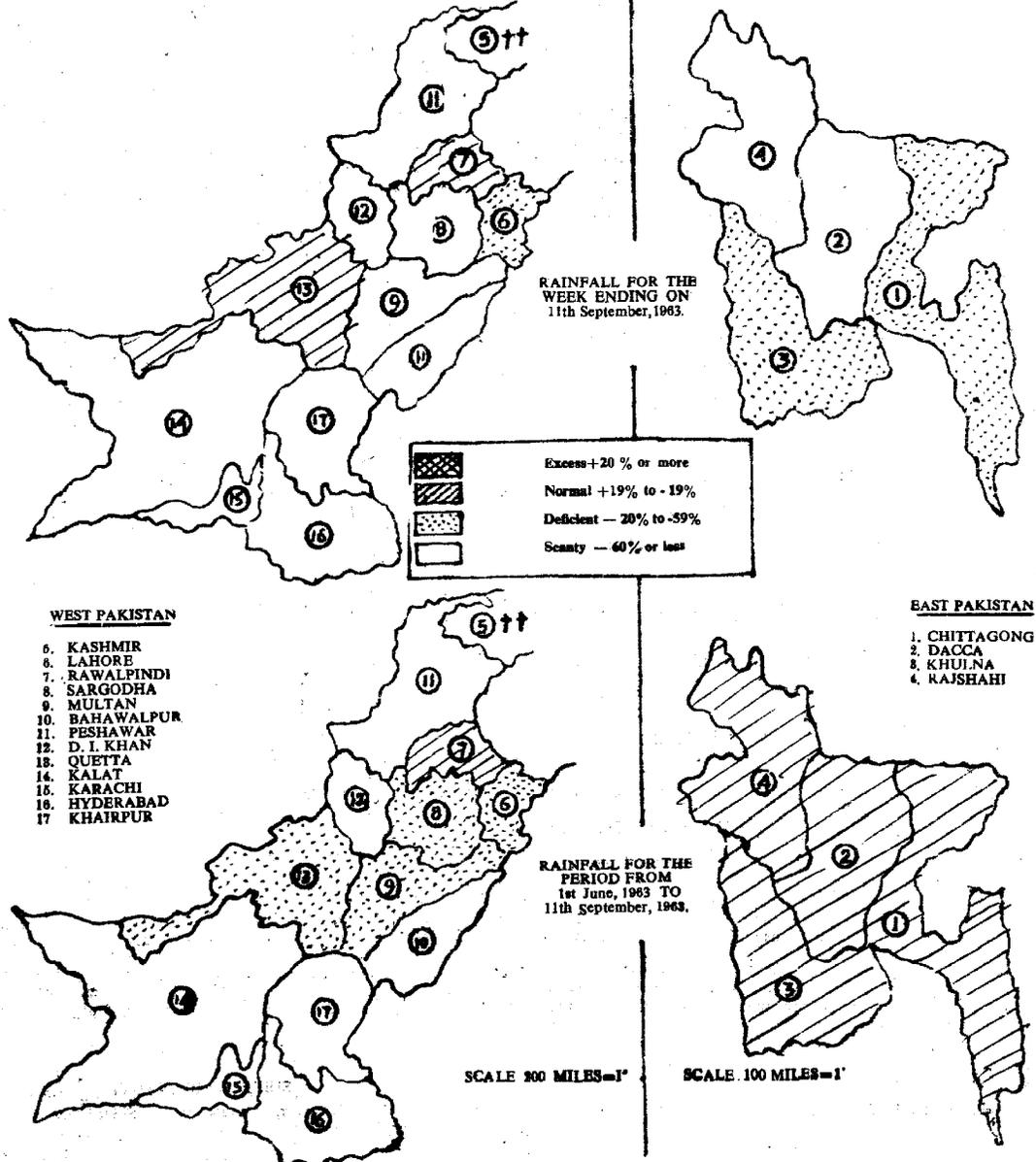
Rainfall for the period from 1st June, 1963 to date was normal in East Pakistan and in Rawalpindi division, deficient in Lahore, Sargodha, Multan and Quetta divisions and scanty elsewhere in West Pakistan.

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, 1963 to date.

WEEKLY WEATHER REPORT

Division	Rainfall for week ending on 11th September, 1963.			Rainfall for Period from 1st June, 1963 to 11th September, 1963.			
	† Actual	Normal	*Excess or defect	† Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	2.1	3.2	- 1.2	71.5	66.3	+ 5.3	+ 8
2. Dacca	0.3	2.7	- 2.4	43.4	46.1	- 2.8	- 6
3. Khulna	1.4	2.0	- 0.6	45.8	43.6	+ 2.1	+ 5
4. Rajshahi	0	2.9	- 2.9	42.3	45.9	- 3.6	- 8
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0.7	0.9	- 0.2	12.9	17.7	- 4.8	- 27
7. Rawalpindi	1.1	1.2	- 0.1	27.8	27.1	+ 0.7	+ 3
8. Sargodha	0	0.5	- 0.5	4.5	9.1	- 4.6	- 50
9. Multan	0	0.2	- 0.2	2.7	5.6	- 2.9	- 52
10. Bahawalpur	0	0.1	- 0.1	1.3	4.5	- 3.1	- 70
11. Peshawar	0.2	0.5	- 0.3	2.1	7.5	- 5.4	- 72
12. D. I. Khan	0	0.2	- 0.2	1.1	4.6	- 3.5	- 75
13. Quetta	0.1	0.1	0	1.2	2.7	- 1.4	- 54
14. Kalat	0	0	0	0.1	1.0	- 1.0	- 95
15. Karachi	0	0.1	- 0.1	0.2	3.3	- 3.1	- 93
16. Hyderabad	0.1	0.3	- 0.3	1.6	6.3	- 4.7	- 74
17. Khairpur	0	0.1	- 0.1	0.1	2.2	- 2.1	- 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 18th September, 1963.

SUMMARY OF WEATHER

EAST PAKISTAN:—Last week's deep depression moved westnorthwestwards and was centred about 40 miles northwest of Bahalore at 0300 hours GMT on the 12th. It continued moving in the same direction till 14th morning when it lay with its centre at 0300 hours GMT about 30 miles east of Jubhalpore. Thereafter it moved initially north-westwards and then northwards, weakened gradually and lay as a depression about 30 miles southwest of Cawnpore on the 15th morning. It subsequently recurved towards north-northeast, weakened further into a low by 16th morning and finally passed off as a trough of low pressure across sub-Himalyan West Bengal by the end of the week. Under its influence monsoon became active over the province towards the middle of the week and caused generally widespread rain or thundershowers in the province between the 13th and the 15th with a few heavy falls in Chittagong division on the 14th and the 15th and very heavy falls in Khulna division only on the 14th. Monsoon was otherwise generally weak and caused mainly scattered to local rainfall in East Pakistan during the rest of week except for fairly widespread rainfall that occurred in Khulna division on the 12th and 16th and in Dacca and Rajshahi divisions on the 17th. The falls were heavy to very heavy at a few places in Rajshahi and Chittagong divisions respectively on the 17th and the 18th.

Chief amounts of rainfall recorded during the week were:—Cox's Bazar and Majidtee Court 3" each on the 13th; Satkhira 7" and Cox's Bazar 3" on the 14th; Begra 3" on the 17th and Syhlet 5" on the 18th.

Day temperatures were slightly above normal in the province outside Khulna division on the 12th, in Rajshahi division on the 13th, 16th and the 18th and in Dacca division on the last two days of the week. These were to the same extent below normal in Khulna and Rajshahi divisions on the 15th.

WEST PAKISTAN:—An active western disturbance approached Peshawar and D. I. Khan divisions on the first day of the week and caused scattered to local rain or thundershowers in Sargodha, Peshawar, D. I. Khan and Hyderabad divisions and local thundershowers and light rain respectively in Rawalpindi and Quetta divisions the same day. It then moved away northeastwards after causing scattered rain or thundershowers in D. I. Khan and Peshawar divisions and a few thundershowers in Sargodha and Bahawalpur divisions on the 13th. Another western disturbance moved across the northern parts of the province during the middle of the week. Under its influence scattered to local rain or thundershowers occurred in Lahore and Peshawar divisions on the 14th and scattered thundershowers in Rawalpindi and Sargodha divisions on the 14th and 15th. The third and the last western disturbance of the week moved eastwards across Kashmir and adjoining Rawalpindi and Peshawar divisions on the last two days of the week. It caused widespread rain or thundershowers in Rawalpindi division and local in Peshawar division on the 17th. A few thundershowers were also reported from Peshawar division on the 18th.

Chief amounts of rainfall during the week were:—Umerkot ½" on the 12th; Lahore and Parachinar ½" each on the 14th; and Rawalpindi 1" and Jhelum, Murree, Drosh and Chakdara ½" each on the 17th.

Day temperatures were slightly above normal in the province outside Lahore division on the 12th and outside Quetta and northern Kalat divisions on the 14th and in the central and coastal areas during the next two days. These were slightly below normal in Lahore, Sargodha, Multan, Peshawar, D. I. Khan, Bahawalpur, Quetta and Khairpur divisions on the 18th and in Quetta and Kalat divisions on the 15th.

2. CHITTAGONG DIVISION :	Rainfall was widespread, fairly widespread and scattered on one day each and local on four days.
DACCA DIVISION :	Rainfall was widespread, local and scattered on two days each and fairly widespread on one day.
KHULNA DIVISION :	Widespread rain fell on three days, fairly widespread on two days and local on one day.
RAJSHAH DIVISION :	Rainfall was widespread on three days and fairly widespread, local and scattered on one day each.
KASHMIR :	Data not available.
LAHORE DIVISION :	Local rain fell on one day.
RAWALPINDI DIVISION :	Rainfall was widespread on one day.
SARGODHA DIVISION :	Rainfall was local on one day.
MULTAN DIVISION :	No rain fell during the week.
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Local rain fell on one day and scattered on three days.
D. I. KHAN DIVISION :	Rainfall was scattered on two days.
QUETTA DIVISION :	No rain fell during the week.
KALAT DIVISION :	
KARACHI DIVISION :	
HYDERABAD DIVISION :	Scattered rain fell on one day.
KHAIRPUR DIVISION :	No rain fell during the week.
JUNAGADH :	Data not available

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

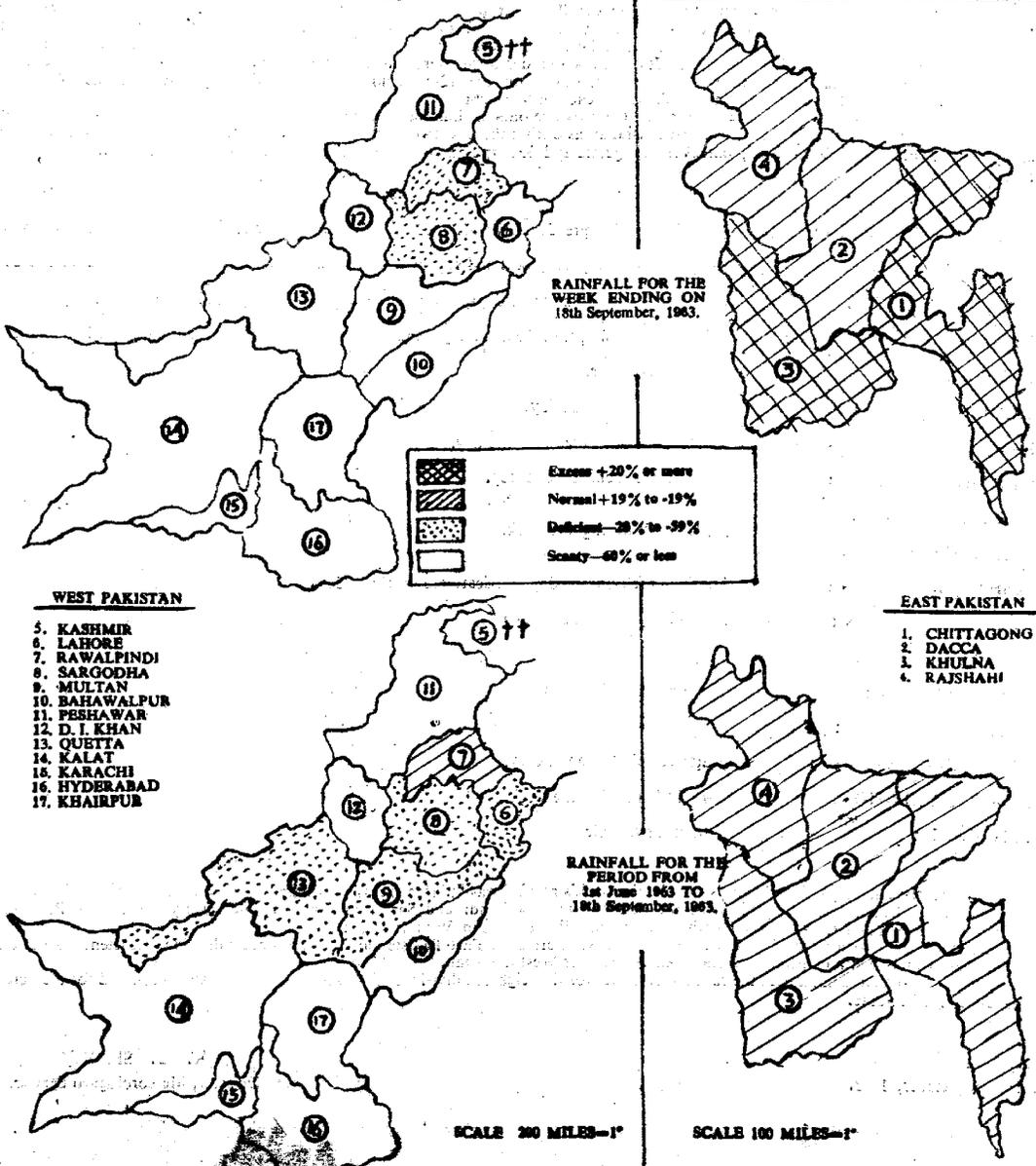
Rainfall for the period from 1st June, 1963 to-date was normal in East Pakistan and in Rawalpindi division, deficient in Lahore, Sargodha, Multan and Quetta divisions and scanty elsewhere over West Pakistan.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June, 1963 to-date.

WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending on 18th September, 1963.			Rainfall for Period from 1st June, 1963 to 18th September, 1963.			
	†Actual	Normal	*Excess or defect	†Actual	Normal	Excess or defect	
						Inches	Per-Cent
1. Chittagong	3.9	2.8	+ 1.1	75.5	69.1	+ 6.4	+ 9
2. Dacca	2.4	2.8	- 0.4	45.7	48.9	- 3.2	- 7
3. Khulna	6.4	1.9	+ 4.5	52.1	45.9	+ 6.6	+ 14
4. Rajshahi	2.7	2.9	- 0.2	45.0	48.9	- 3.9	- 8
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0.2	0.7	- 0.5	13.1	18.4	- 5.3	- 29
7. Rawalpindi	0.9	1.3	- 0.4	28.7	28.3	+ 0.3	+ 1
8. Sargodha	0.2	0.3	- 0.1	4.7	9.4	- 4.7	- 50
9. Multan	0	0.3	- 0.3	2.7	5.8	- 3.2	- 55
10. Bahawalpur	0	0.1	- 0.1	1.3	4.5	- 3.2	- 70
11. Peshawar	0.1	0.3	- 0.2	2.2	7.8	- 5.6	- 72
12. D. I. Khan	0	0.2	- 0.2	1.1	4.8	- 3.6	- 76
13. Quetta	0	0.1	- 0.1	1.2	2.7	- 1.5	- 54
14. Kalat	0	0	0	0.1	1.0	- 1.0	- 95
15. Karachi	0	0.1	- 0.1	0.2	3.4	- 3.2	- 93
16. Hyderabad	0	0.2	- 0.2	1.6	6.5	- 4.9	- 75
17. Khairpur	0	0	0	0.1	2.2	- 2.1	- 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 0330 hours G.M.T. on Wednesday the 25th September, 1963.

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SUMMARY OF WEATHER

EAST PAKISTAN:—The monsoon which remained generally weak during the first four days of the week temporarily withdrew from the province by the 22nd. Under its influence rain or thundershowers were generally local in Chittagong and Dacca divisions on the first two days of the week and again in these divisions respectively on the 21st and the 22nd. Scattered rain fell in Rajshahi and Chittagong divisions on the 19th and the 22nd respectively and light rain in Khulna division on the 20th and the 22nd and in Dacca and Rajshahi divisions on the 21st. Thereafter a westerly trough while moving away eastwards, caused scattered rain in Khulna division and light rain in Chittagong and Dacca divisions on the 23rd. Isolated very heavy falls were reported from Chittagong division on the 19th. A depression, that formed over Thailand, moved westnorthwestwards and entered North Andaman Sea and adjoining areas on the last day of the week when it was centred at 25,0300 hours GMT near latitude $15\frac{1}{2}^{\circ}$ N and longitude 94° E. It caused scattered rain or thundershowers in Chittagong division the same day.

Chief amounts of rainfall during the week were:— Maijdee Court 5° on the 19th; Srimangal $1\frac{1}{2}^{\circ}$ on the 20th; and Maijdee Court on the 21st and Barisal 2° on the 23rd.

Day temperatures were slightly above normal in Rajshahi and Khulna divisions on the 19th and the 22nd and in most of the province on the 21st and the 24th. These were to the same extent below normal in Chittagong and Dacca divisions on the 20th and the 22nd.

WEST PAKISTAN:—Only one western disturbance moved across the northern areas of the province during the week. This caused fairly widespread rain or thundershowers in Rawalpindi division on the 20th and scattered to local in Peshawar division on the 20th and the 21st. A few thunderstorms were also reported from Peshawar, Lahore and Rawalpindi divisions respectively on the first three days of the week. Weather remained dry otherwise. Kakul recorded 1° of rain on the 20th.

Day temperatures were slightly below normal in most of the province on the 21st, in Lahore, Sargodha, Bahawalpur and Khairpur divisions on the 19th and only in Bahawalpur and Khairpur divisions on the 20th. These were slightly above normal in Quetta and northern Kalat divisions on the 23rd and in Peshawar, D. I. Khan, Quetta, Hyderabad and northern Kalat divisions on the last day of the week.

2. CHITTAGONG DIVISION :	Rainfall was fairly widespread on one day and local and scattered on two days each.
DACCA DIVISION :	Fairly widespread rain fell on one day and local on two days.
KHULNA DIVISION :	} Scattered rain fell on one day.
RAJSHAHI DIVISION :	
KASHMIR :	
LAHORE DIVISION :	No rain fell during the week.
RAWALPINDI DIVISION :	Rainfall was fairly widespread on one day.
SARGODHA DIVISION :	} Weather remained dry during the week.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Scattered rain fell on two days.
D. I. KHAN DIVISION :	} No rain fell during the week.
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 deficient in Chittagong and Rawalpindi divisions and scanty elsewhere in East Pakistan and in Peshawar division whereas no rain fell elsewhere in West Pakistan.

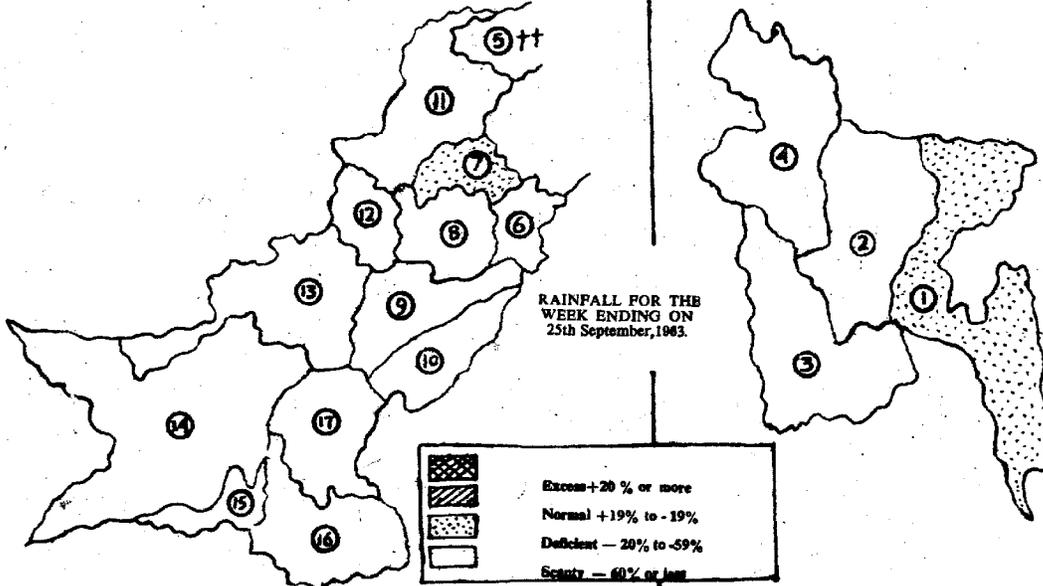
Rainfall for the period from 1st June, 1963 to data was normal in East Pakistan and in Rawalpindi division, deficient in Lahore, Sargodha, Multan and Quetta divisions and scanty elsewhere in West Pakistan.

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, 1963 to data.

WEEKLY WEATHER REPORT

Division	Rainfall for week ending on 25th September, 1963.			Rainfall for Period from 1st June, 1963 to 25th September, 1963.			
	↑ Actual	Normal	*Excess or defect	↑ Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	2.3	2.8	- 0.6	77.7	71.9	+ 5.9	+ 8
2. Dacca	1.0	2.5	- 1.5	46.7	51.4	- 4.7	- 9
3. Khulna	0.6	2.3	- 1.7	52.7	47.8	+ 4.9	+ 10
4. Rajshahi	0.1	2.7	- 2.7	45.1	51.6	- 6.5	- 10
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0	0.4	- 0.4	13.1	18.8	- 5.8	- 31
7. Rawalpindi	0.3	0.7	- 0.4	27.2	29.1	- 1.9	- 7
8. Sargodha	0	0.2	- 0.2	4.7	9.6	- 4.9	- 51
9. Multan	0	0.3	- 0.3	2.7	6.1	- 3.5	- 57
10. Bahawalpur	0	0	0	1.3	4.5	- 3.2	- 70
11. Peshawar	0	0.2	- 0.2	2.2	8.0	- 5.8	- 73
12. D. I. Khan	0	0.3	- 0.3	1.1	5.0	- 3.9	- 77
13. Quetta	0	0	0	1.2	2.7	- 1.5	- 55
14. Kalat	0	0	0	0.1	1.1	- 1.0	- 95
15. Karachi	0	0	0	0.2	3.4	- 3.2	- 93
16. Hyderabad	0	0.1	- 0.1	1.6	6.6	- 5.0	- 75
17. Khairpur	0	0.1	- 0.1	0.1	2.3	- 2.1	- 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.

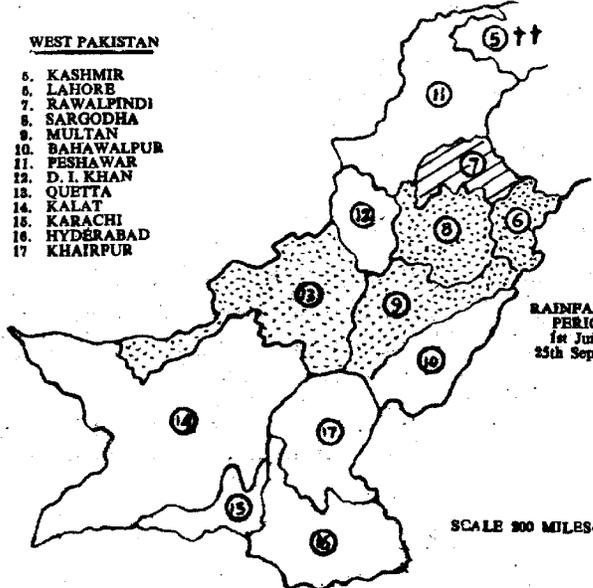


WEST PAKISTAN

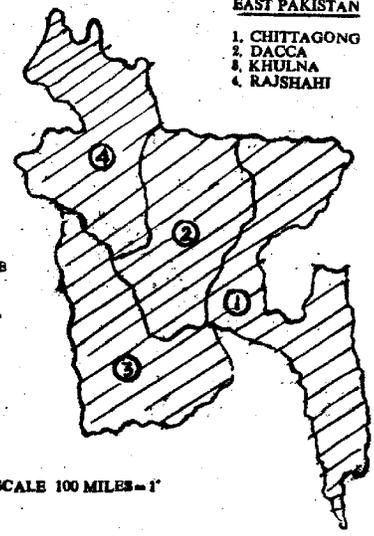
- 5. KASHMIR
- 6. LAHORE
- 7. RAWALPINDI
- 8. SARGODHA
- 9. MULTAN
- 10. BAHAWALPUR
- 11. PESHAWAR
- 12. D. I. KHAN
- 13. QUETTA
- 14. KALAT
- 15. KARACHI
- 16. HYDERABAD
- 17. KHAIRPUR

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 2nd October, 1963.

—oIQo—

SUMMARY OF WEATHER

EAST PAKISTAN:—Last week's depression moved northwestwards and was centred within half a degree of Latitude $19\frac{1}{2}^{\circ}$ N and Longitude $89\frac{1}{2}^{\circ}$ E at 0300 GMT on the first day of the week. Continuing to move in the same direction it crossed North Orissa coast the same night and was centred about 30 miles west of Blasore at 0300 hours GMT on the 27th. Thereafter it moved north-north-westwards, weakened into a shallow depression by the 28th morning when it lay with its centre about 30 miles northwest of Jamshedpur. It finally weakened into a low over Bihar the same evening and moved away northeastwards as a feeble low pressure area by the 30th. Under its influence monsoon revived over the province and caused local to fairly widespread rain or thundershowers there during the first five days of the week except for dry weather in Rajshahi division on the 27th. Heavy to very heavy rain fell at a few places in Rajshahi division between the 28th and the 30th and in Chittagong division only on the 28th. Monsoon weakened again thereafter as an easterly low pressure area approached the central Bay of Bengal on the 30th evening. As a consequence scattered to local rain or thundershowers occurred in the province on the last two days of the week, except in Rajshahi division on the 1st.

The heavy falls aggravated flood situation in the province. According to press reports, more than 15 lakh people were affected in Faridpur and Munshiganj sub-divisions by the end of September.

Chief amounts of rainfall during the week were:—Chittagong 3" and Dinajpur 2" on the 28th; Dinajpur and Rangpur 2" each on the 29th and Rangpur 6" on the 30th.

Day temperatures were slightly above normal in the province on the first day of the week and to the same extent below normal in Khulna and Dacca divisions on the 27th and in Rajshahi division on the 29th and the 30th.

WEST PAKISTAN:—Two western disturbances moved across the northern parts of the province during the first three days of the week. These caused local rain or thundershowers in Rawalpindi division on the 26th and the 27th, in Peshawar division on the 27th, in Lahore division on the 28th and scattered in Peshawar division on the 26th and the 28th and in D. I. Khan and Rawalpindi divisions respectively on the 27th and the 28th. A few thunderstorms also occurred in Sargodha division on the 28th. Rainfall was heavy in the hills of Rawalpindi division on the 26th and was associated with hail. The last western disturbance of the week that moved across the extreme north of the province and Kashmir caused local thunderstorms in Peshawar division on the 1st.

Chief amounts of rainfall recorded during the week were:—Murree 2" on the 26th and Campbellpur $\frac{3}{4}$ " on the 27th.

Day temperatures were appreciably to markedly below normal in the northern and central parts of the province on the 28th and were slightly below normal in these areas on the 29th and the 30th, in most of the province on the 28th and in Quetta and Kalat and Khairpur divisions on the 26th, 27th and the 1st.

2. CHITTAGONG DIVISION :	Rainfall was fairly widespread on one day, local on four days and scattered on two days.
DACCA DIVISION :	Local rain fell on one day and scattered on six days.
KHULNA DIVISION :	Widespread rain fell on one day, fairly widespread on three days, local on two days and scattered on one day.
RAJSHAHI DIVISION :	Rainfall was fairly widespread and scattered on two days each and local on one day.
KASHMIR :	Data not available.
LAHORE DIVISION :	Rainfall was local on one day.
RAWALPINDI DIVISION :	Local rain fell on two days and scattered on one day.
SARGODHA DIVISION :	} No rain fell during the week.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Rainfall was local on one day and scattered on two days.
D. I. KHAN DIVISION :	Scattered rain fell on one day.
QUETTA DIVISION :	} No rain fell during the week.
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 large excess in Khulna, Rajshahi and Rawalpindi divisions, normal in Chittagong and Lahore divisions; deficient in Dacca division and scanty in Peshawar and D. I. Khan divisions whereas no rain fell elsewhere over West Pakistan.

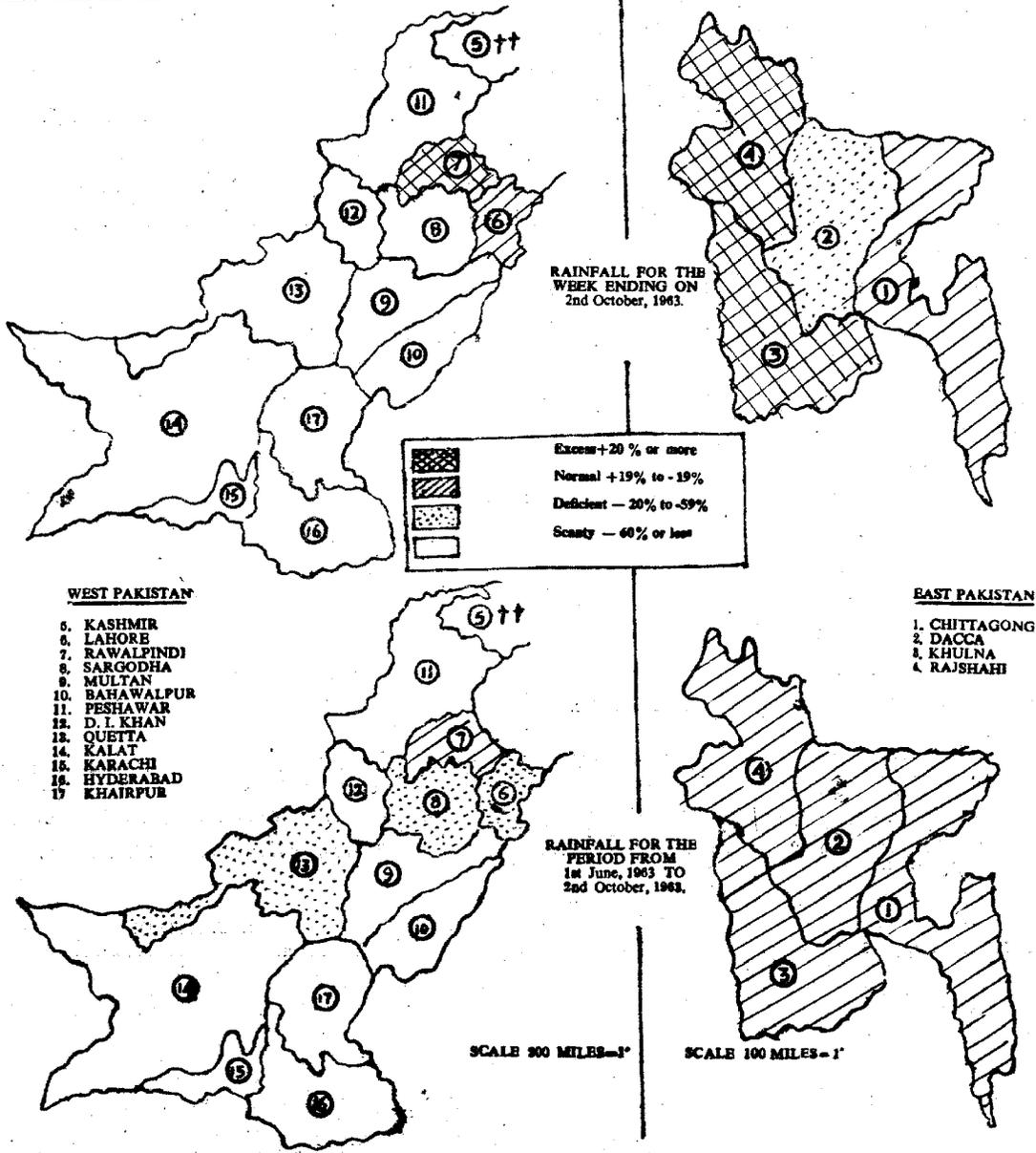
Rainfall for the period from 1st June, 1963 to-date was normal in East Pakistan and in Rawalpindi division; deficient in Lahore, Sargodha, Multan and Quetta divisions and scanty elsewhere in West Pakistan.

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, 1963 to-date.

WEEKLY WEATHER REPORT

Division	Rainfall for week ending on 2nd October, 1963.			Rainfall for Period from 1st June, 1963 to 2nd October, 1963.			
	Actual	Normal	*Excess or defect	Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	27.0	2.3	- 0.2	79.8	74.2	+ 5.6	+ 7
2. Dacca	1.4	1.9	- 0.5	48.1	53.3	- 5.2	- 10
3. Khulna	2.7	1.6	+ 1.1	55.5	49.4	+ 6.0	+ 12
4. Rajshahi	4.0	2.1	+ 1.8	49.0	53.7	- 4.7	- 9
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0.1	0.2	0	13.2	19.0	- 5.8	- 31
7. Rawalpindi	1.1	0.6	+ 0.5	28.2	29.7	- 1.4	- 5
8. Sargodha	0	0.1	- 0.1	4.7	9.7	- 5.0	- 52
9. Multan	0	0.1	- 0.1	2.7	6.2	- 3.6	- 57
10. Bahawalpur	0	0	0	1.3	4.5	- 3.2	- 70
11. Peshawar	0	0.2	- 0.2	2.2	8.1	- 6.0	- 73
12. D. I. Khan	0	0.1	- 0.1	1.1	5.1	- 4.0	- 78
13. Quetta	0	0.1	- 0.1	1.2	2.8	- 1.5	- 56
14. Kalat	0	0	0	0.1	1.1	- 1.0	- 95
15. Karachi	0	0	0	0.2	3.4	- 3.2	- 93
16. Hyderabad	0	0	0	1.6	6.6	- 5.0	- 75
17. Khairpur	0	0	0	0.1	2.3	- 2.1	- 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 9th October, 1963.

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SUMMARY OF WEATHER

EAST PAKISTAN:—An easterly low pressure area moved into North Andaman Sea and East central Bay of Bengal in the beginning of the week. It concentrated into a depression centred at 0300 hours GMT of the 5th near Latitude $18\frac{1}{2}^{\circ}$ N and Longitude 92° E. It moved northnorthwest-wards and lay within half a degree of Latitude $20\frac{1}{2}^{\circ}$ N and Longitude $91\frac{1}{2}^{\circ}$ E the next morning. Thereafter it moved practically northwards crossed Chittagong coast south of Majidtee Court during the later part of the night and was centred close to that station at 07,0300 GMT. It subsequently weakened rapidly into a low over Assam and finally moved away northeast-wards by the end of the week. Under its influence rain or thundershowers were local to widespread in the province on the 7th in the region outside Rajshahi division a daybefore and only in Chittagong division on the 8th. Very heavy rain fell at some stations in Chittagong and Khulna divisions on the 7th and only in Chittagong division on the 8th. Earlier during the week a well marked low, that moved inland northwest-wards across the north Bay of Bengal caused, mainly local rain or thundershowers in the province outside Dacca division on the 3rd and the 4th. Scattered to local rain or thundershowers also occurred in Chittagong division on the 5th and the 9th, in Dacca division on the 8th and in Rajshahi and Khulna divisions respectively on the 8th and the 9th. According to news paper report wind speed of 60 m. p. h. were experienced in the districts of Barisal and Comilla. 142 persons were killed in addition to widespread damage to property and crops in these areas.

Chief amounts of rainfall during the week were:—Comilla 3" on the 5th; Barisal 8", Majidtee Court 5", Comilla and Chittagong 4" each and Cox's Bazar 3" on the 7th and Comilla and Srimangal 6" each, Rangamati 4" and Brahmanbaria 3" on the 8th.

Day temperatures were slightly above normal in the region during the first four days of the week and only in Khulna division on the last day. These were slightly to appreciably below normal in the province outside Rajshahi division on the 8th.

WEST PAKISTAN:—A western disturbance while moving away northeast-wards across extreme north of the province caused scattered rain or thundershowers in Peshawar division on the 5th. Thereafter two more western disturbances moved across these areas during last three days of the week. These caused scattered to local rain or thundershowers in Peshawar division on the 7th and the 8th and in Lahore division on the 9th. A few thunderstorms were also reported from Rawalpindi division on the 8th and from Rawalpindi and Peshawar divisions on the last day of the week. Kakul recorded $\frac{3}{4}$ " of rainfall on the 7th and Sialkot on the 9th.

Day temperatures were slightly to appreciably above normal in the northern areas of the province on the 7th and the 8th, only in Peshawar division on the 3rd and the 5th and in Quetta and Kalat divisions on the last two days of the week. These were slightly below normal in Khairpur and Hyderabad divisions on the 5th and the 6th.

2. CHITTAGONG DIVISION :	Widespread and local rain fell on one day each, fairly widespread on two days and scattered on three days.
DACCA DIVISION :	Rainfall was widespread, local and scattered on one day each.
KHULNA DIVISION :	Widespread rain fell on one day, local on three days and scattered on one day.
RAJSHAHI DIVISION :	Fairly widespread and local rain fell on two days each.
KASHMIR :	Data not available.
LAHORE DIVISION :	Local rain fell on one day.
RAWALPINDI DIVISION :	Weather remained mainly dry.
SARGODHA DIVISION :	} Weather remained dry.
MULTAN DIVISION :	
BAHAWALPUR DIVISION :	
PESHAWAR DIVISION :	Scattered rain fell on three days.
D. I. KHAN DIVISION :	} Weather remained dry during the week.
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 large excess in Chittagong division; in excess in Khulna division, normal in Dacca and Lahore divisions; deficient in Rajshahi division and scanty in Peshawar division. No rain fell elsewhere in West Pakistan.

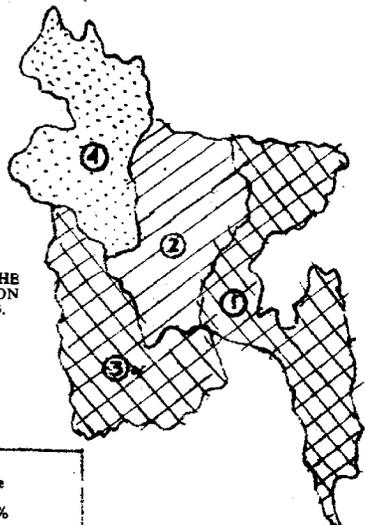
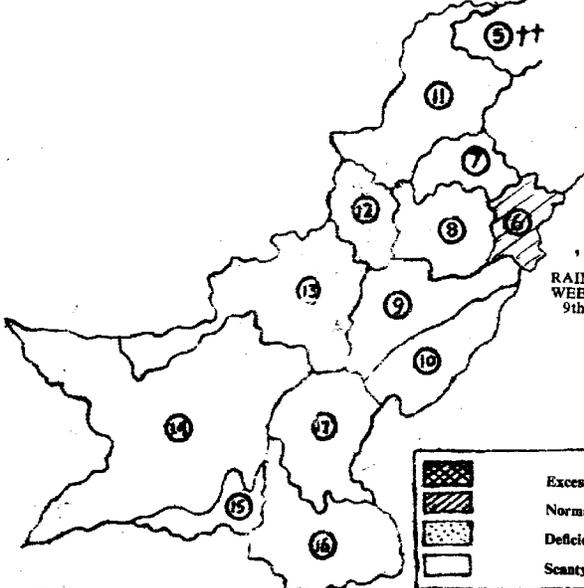
The rainfall for the period from 1st June, 1963 to-date was normal in East Pakistan; deficient in Lahore, Sargodha, Multan and Quetta divisions and scanty elsewhere in West Pakistan.

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, 1963 to-date.

WEEKLY WEATHER REPORT

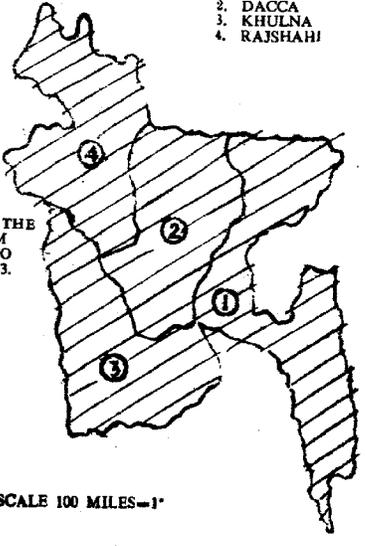
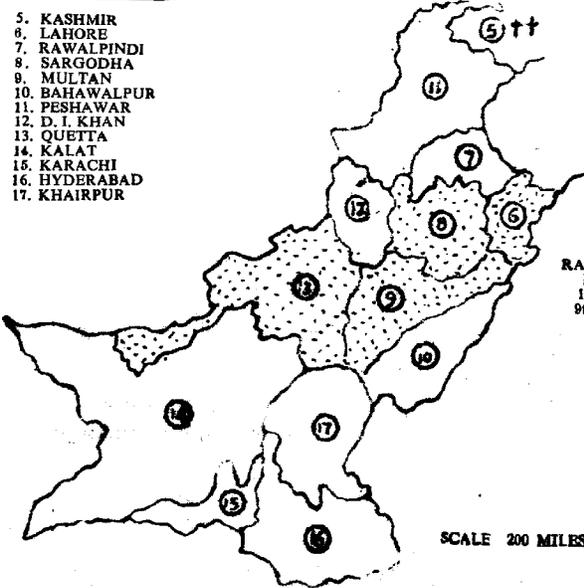
DIVISION.	Rainfall for week ending on 9th October, 1963.			Rainfall for Period from 1st June, 1963 to 9th October, 1963.			
	†Actual	Normal	*Excess or defect	†Actual	Normal	Excess or defect	
						Inches	Per-Cent
1. Chittagong	6.9	2.0	+ 4.9	86.7	76.2	+ 10.5	+ 14
2. Dacca	1.1	1.3	- 0.2	49.2	54.6	- 4.1	- 18
3. Khulna	3.3	2.3	+ 1.0	58.8	51.7	+ 7.1	+ 14
4. Rajshahi	1.3	2.4	- 0.9	50.3	56.1	- 5.7	- 10
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0.2	0.1	0	13.4	19.1	- 5.7	- 30
7. Rawalpindi	0	0.4	- 0.4	28.2	30.0	- 1.8	- 60
8. Sargodha	0	0.1	- 0.1	4.7	9.8	- 5.1	- 52
9. Multan	0	0	0	2.7	6.2	- 3.6	- 58
10. Bahawalpur	0	0	0	1.3	4.5	- 3.2	- 70
11. Peshawar	0	0.1	- 0.1	2.2	9.2	- 6.1	- 73
12. D. I. Khan	0	0	0	1.1	5.1	- 4.0	- 78
13. Quetta	0	0	0	1.2	2.8	- 1.6	- 56
14. Kalat	0	0	0	0.1	1.1	- 1.0	- 95
15. Karachi	0	0	0	0.2	3.4	- 3.2	- 93
16. Hyderabad	0	0	0	1.6	6.6	- 5.0	- 75
17. Khairpur	0	0	0	0.1	2.3	- 2.1	- 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.



WEST PAKISTAN

EAST PAKISTAN



SCALE 200 MILES=1"

SCALE 100 MILES=1"

- 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

WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 16th October, 1963.

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SUMMARY OF WEATHER

EAST PAKISTAN: An easterly low pressure area while moving westwards, across Central Bay of Bengal during the first two days of the week caused scattered to local rain or thundershowers in the province outside Dacca and Rajshahi divisions on the 10th and outside Khulna division on the 11th. Thereafter a westerly low pressure wave caused a few thunderstorms in Chittagong, Dacca and Rajshahi divisions on the 12th and local rain or thundershowers in these areas on the next day. Two active westerly low pressure waves moved thereafter in close succession across extreme north of the province. The first one was active and caused local rain or thundershowers in the province on the 14th and only in Chittagong division on the 15th. The second one caused scattered light rain in Rajshahi division on the last day of the week.

Chief amounts of rainfall recorded during the week were :- Bogra $1\frac{1}{2}$ " on the 11th and Faridpur 3" on the 14th. Day temperatures were slightly above normal in most of the province during the week.

WEST PAKISTAN: The easterly low pressure area that moved inland westwards across the central Bay of Bengal emerged out into southeast Arabian Sea and lay as a well marked low close to Kanara coast on the 12th morning. It then moved northwestwards and concentrated into a depression the same evening when it was centred at 12,1200 GMT within one degree of Latitude $15\frac{1}{2}$ " N and Longitude 72° E. Continuing to move in the same direction it intensified and lay as a deep depression near Latitude $16\frac{1}{2}$ " N and Longitude $79\frac{1}{2}$ " E at 0:00 hours GMT on the 13th and within half a degree of Latitude $18\frac{1}{2}$ " N and Longitude $68\frac{1}{2}$ " E the next morning. Thereafter the deep depression moved northwards and developed into a cyclonic storm of small extent on the morning of the 15th it lay with its centre at 0300 hours GMT near Latitude 20° N and Longitude $58\frac{1}{2}$ " E. The ship "Safina Arab" positioned at 21.7° N and 68.5° E reported a northeasterly wind of B.F. 8 at 0600 hours GMT the same day. Another Pakistani ship Mustali positioned at 20.5° N and 69.6° E the same time reported south-easterly wind of B.F. 7. The cyclonic storm continued to weaken while moving northwards at an average speed of about 5 to 7 knots and lay within half a degree of Latitude 22° N and Longitude $68\frac{1}{2}$ " E at 0300 hours GMT on the last day of the week. Under its influence the coastal areas of the province experienced a heat wave between the 12th and the 14th. Local rain, thereafter, fell in Hyderabad division on the last day of the week. Earlier during the week two western disturbances moved northeast-wards across the extreme north of the province. These caused scattered rain or thundershowers in Peshawar division on the 12th and the 13th and a few thunderstorms in Peshawar, Rawalpindi and Sargodha divisions respectively on the 11th, 12th and the 13th and in Rawalpindi, Multan and Peshawar divisions on the 14th.

Chief amounts of rainfall recorded during the week were :- Parachinar $\frac{1}{2}$ " on the 12th and the 13th and Badin $\frac{1}{2}$ " on the 16th. Day temperatures were markedly above normal in Hyderabad, Karachi and coastal Kalat divisions on the 14th and slightly to appreciably so in these areas on the 13th and the 15th and only in Quetta and Kalat divisions on the 10th.

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

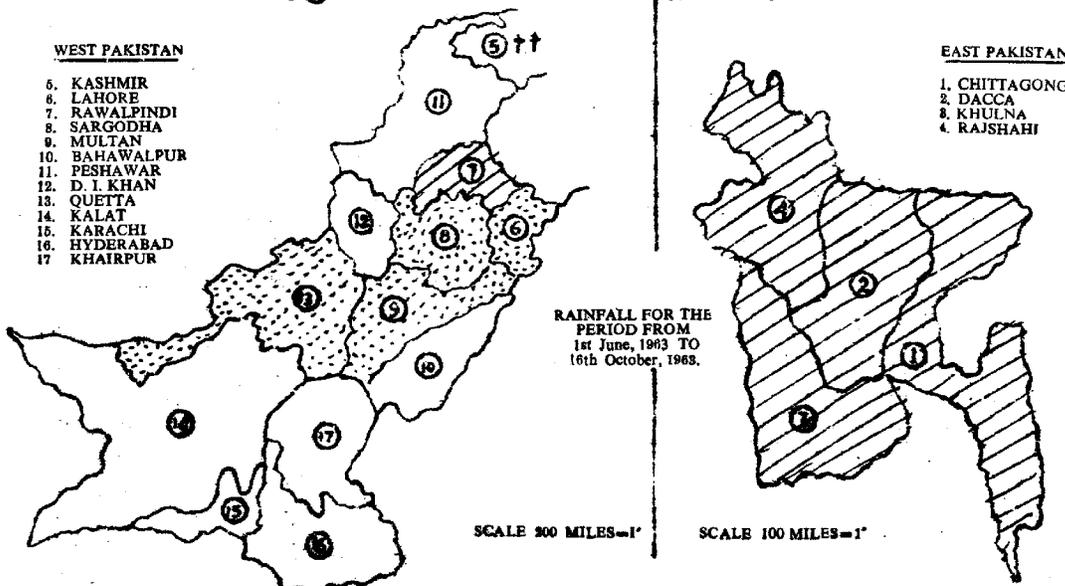
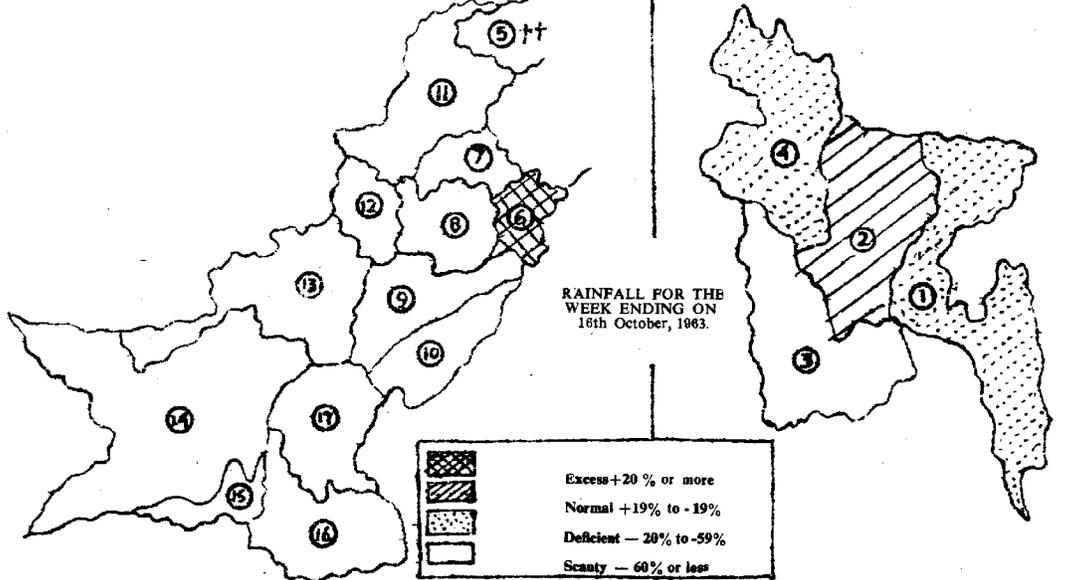
3. Based on data of stations having normals, the week's rainfall was in excess in Lahore division, normal in Dacca division, deficient in Chittagong and Rajshahi divisions and scanty in Khulna, Rawalpindi, Peshawar divisions. No rain fell elsewhere over the West Pakistan. Rainfall for the period from 1st June, 1963 to date was normal in East Pakistan and in Rawalpindi division; deficient in Lahore, Sargodha, Multan and Quetta divisions and scanty elsewhere over West Pakistan.

4. The table overleaf summarises the rainfall statistics for eighteen divisions of Pakistan, both for the week and for the period from 1st June, 1963 to date.

WEEKLY WEATHER REPORT

Division	Rainfall for week ending on 16th October, 1963.			Rainfall for Period from 1st June, 1963 to 16th October, 1963.			
	↑ Actual	Normal	*Excess or defect	↑ Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	0.7	1.5	- 0.7	87.5	77.7	+ 9.8	+ 13
2. Dacca	1.8	1.7	+ 0.1	51.0	56.3	- 5.3	- 9
3. Khulna	0.2	1.4	- 1.2	59.0	53.1	+ 5.9	+ 11
4. Rajshahi	1.3	1.8	- 0.4	51.7	57.9	- 6.2	- 11
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0	0	0	13.4	19.1	- 5.7	- 30
7. Rawalpindi	0	0.2	- 0.2	28.2	30.3	- 2.0	- 7
8. Sargodha	0	0	0	4.7	9.8	- 5.1	- 52
9. Multan	0	0	0	2.7	6.2	- 3.6	- 58
10. Bahawalpur	0	0	0	1.3	4.5	- 3.2	- 70
11. Peshawar	0	0.1	- 0.1	2.2	3.3	- 6.1	- 74
12. D. I. Khan	0	0	0	1.1	5.1	- 4.0	- 78
13. Quetta	0	0	0	1.2	2.8	- 1.6	- 56
14. Kalat	0	0	0	0.1	1.1	- 1.0	- 95
15. Karachi	0	0	0	0.2	3.4	- 3.2	- 93
16. Hyderabad	0	0	0	1.6	6.6	- 5.0	- 75
17. Khairpur	0	0	0	0.1	2.3	- 2.1	- 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.



WEST PAKISTAN

- 6. 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

WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 23rd October, 1963.

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SUMMARY OF WEATHER

EAST PAKISTAN:—Last week's westerly low pressure wave moved away eastwards after causing scattered rain in Chittagong division on the first day of the week. Another westerly low pressure wave approached the province on the last day of the week. It caused fairly widespread rain or thundershowers in Rajshahi division and scattered in Dacca and Khulna divisions the same day when Mymensingh, Pabna and Bogra each recorded $\frac{1}{2}$ " of rain fall.

Day temperatures were slightly above normal in the province during the first six days of the week.

WEST PAKISTAN:—Last week's cyclonic storm in the southeast sector of the North Arabian Sea moved north-northeastwards crossed coast about 80 miles south-southwest of Badin in the evening, weakened rapidly into a depression. Continuing to weaken rapidly, it lay as a low over Hyderabad division and adjoining areas on the morning of the 18th and became unimportant thereafter. Widespread rain or thundershowers were reported from Hyderabad division on the 17th and the 18th with a few heavy falls on the second day. Weather otherwise remained dry over the province during the week.

Chief amounts of rainfall reported during the week were:—Badin 3"; Umerkot $1\frac{1}{2}$ " and Nagarparkar 1" on the 17th and Badin 1" on the 18th.

Day temperatures were appreciably to markedly below normal in Hyderabad division on the first two days of the week. These were slightly above normal in the province outside Lahore, Bahawalpur, Khairpur and Hyderabad divisions on the first three days of the week and only in Lahore, Peshawar, Quetta, Kalat and Bahawalpur divisions during the rest of the week.

2. CHITTAGONG DIVISION :	Scattered rain fell on one day.
DACCA DIVISION :	Scattered rain fell on one day.
KHULNA DIVISION :	Scattered rain fell on one day.
RAJSHAHI DIVISION :	Fairly widespread rain fell on one day.
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 :	} Widespread rain fell on two days.
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 Hyderabad division and scanty in East Pakistan where as no rain fell elsewhere in West Pakistan.

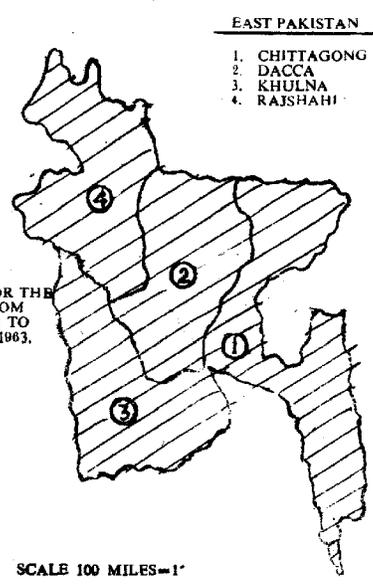
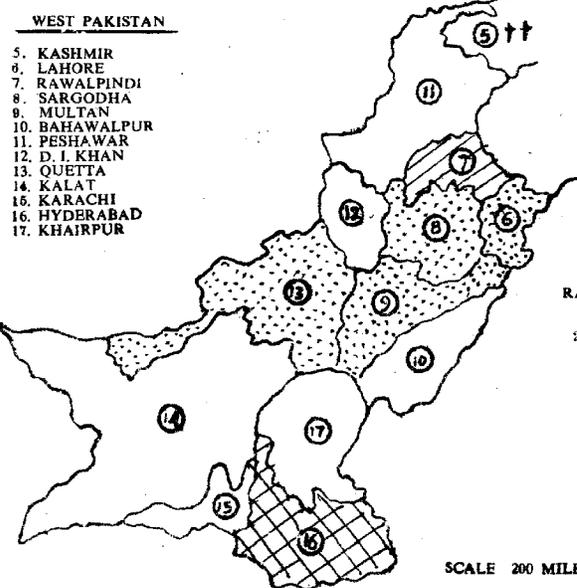
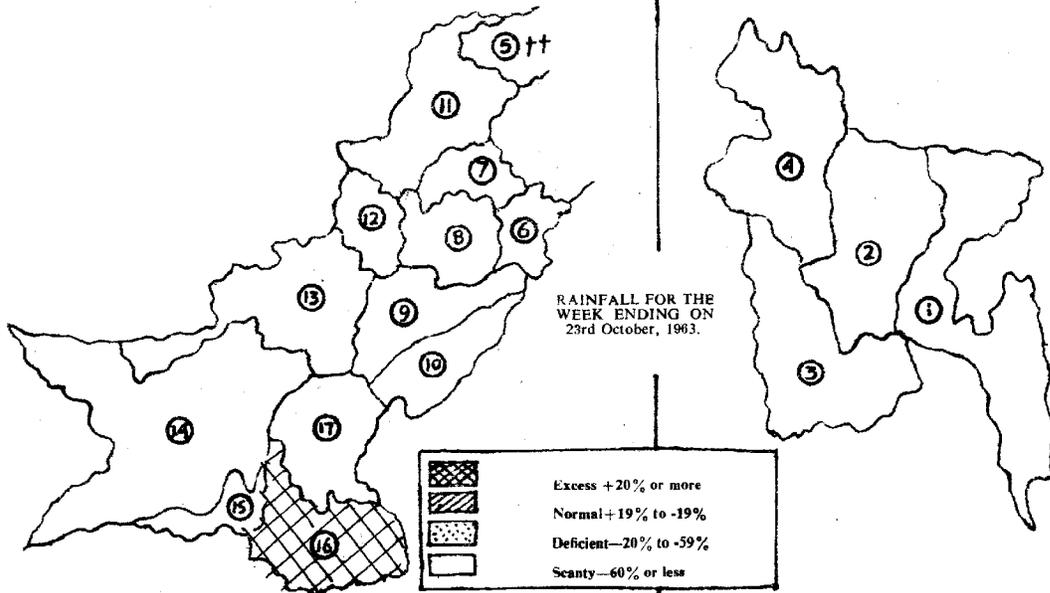
The rainfall for the period from 1st June, 1963 to-date was in excess in Hyderabad division, normal in East Pakistan and in Rawalpindi division; deficient in Lahore, Sargodha, Multan and Quetta divisions and scanty elsewhere in West Pakistan.

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, 1963 to date.

WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending on 23rd October, 1963.			Rainfall for Period from 1st June, 1963 to 23rd October, 1963.			
	†Actual	Normal	*Excess or defect	†Actual	Normal	Excess or defect	
						Inches	Per-Cent
1. Chittagong	0	1.2	— 1.2	87.5	78.9	+ 8.6	+ 11
2. Dacca	0.1	1.0	— 0.9	51.1	57.3	— 6.2	— 11
3. Khulna	0.1	0.8	— 0.8	59.0	53.9	+ 5.1	+ 9
4. Rajshahi	0.1	1.0	— 0.9	51.8	58.9	— 7.1	— 12
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0	0.1	— 0.1	13.4	19.2	— 5.8	— 30
7. Rawalpindi	0	0.3	— 0.3	28.2	30.5	— 2.3	— 7
8. Sargodha	0	0.1	— 0.1	4.7	9.8	— 5.1	— 53
9. Multan	0	0	0	2.7	6.3	— 3.6	— 58
10. Bahawalpur	0	0	0	1.3	4.6	— 3.2	— 70
11. Peshawar	0	0.1	— 0.1	2.2	2.5	— 0.3	— 12
12. D. I. Khan	0	0	0	1.1	5.1	— 4.0	— 78
13. Quetta	0	0	0	1.2	2.9	— 1.6	— 57
14. Kalat	0	0	0	0.1	1.1	— 1.0	— 95
15. Karachi	0	0	0	0.2	3.4	— 3.2	— 93
16. Hyderabad	2.6	0	+ 2.6	4.2	6.6	+ 2.4	+ 37
17. Khairpur	0	0	0	0.1	2.3	— 2.1	— 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 6th November, 1963.

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SUMMARY OF WEATHER

EAST PAKISTAN:—Two westerly low pressure waves moved across the province between the 1st and the 5th. These caused widespread rain or thundershowers in Dacca division on the 2nd and the 4th and in Rajshahi division only on the 4th and scattered to local elsewhere in the province between the 2nd and the 4th. A few falls of light rain or showers also occurred in Rajshahi division on the 1st and in Chittagong division on the 5th. According to newspaper reports a hailstorm of moderate intensity hit Mymensingh district on the night between the 3rd and the 4th.

Chief amounts of rainfall recorded during the week were:—Faridpur $1\frac{1}{2}$ " on the 2nd and Comilla $1\frac{1}{2}$ " and Jessore 1" on the 4th.

Night temperatures were slightly to appreciably above normal in the province on the first two days and only in Khulna division on the third day. These were slightly below normal in the province on the last two days of the week.

WEST PAKISTAN:—A feeble western disturbance which lay over Quetta and D. I. Khan divisions on the last day of the previous week moved away across Kashmir on the first day of the week after causing a few thunderstorms in Peshawar and Rawalpindi divisions. It was closely followed by an active western disturbance which caused fairly widespread rain or thundershowers in Peshawar and Rawalpindi divisions and scattered to local in Sargodha, Bahawalpur, D. I. Khan, Quetta and Khairpur divisions on the 1st and in Peshawar, Rawalpindi and Sargodha divisions on the 2nd. Another western disturbance appeared over D. I. Khan division and adjoining areas on the last day of the week and caused scattered rain or thundershowers in Peshawar division the same day.

Chief amounts of rainfall were:—Cherat and Kakul 1" each on the 1st and Chakdara 1" on the 6th.

Night temperatures were markedly above normal in Multan, Quetta, Khairpur and D. I. Khan divisions throughout the week and in Lahore and Sargodha divisions only on the 1st and the 4th. These were otherwise slightly to appreciably above normal over the province during the week.

2. CHITTAGONG DIVISION :	Local and scattered rain fell on one day each.
DACCA DIVISION :	Rainfall was fairly widespread on two days.
KHULNA DIVISION :	Scattered rain fell on three days.
RAJSHAHI DIVISION :	Fairly widespread and local rain fell on one day each.
KASHMIR :	Data not available.
LAHORE DIVISION :	No rain fell during the week.
RAWALPINDI DIVISION :	Fairly widespread and scattered rain fell on one day each.
SARGODHA DIVISION :	Scattered rain fell on one day.
MULTAN DIVISION :	No rain fell during the week.
BAHAWALPUR DIVISION :	Scattered rain fell on one day.
PESHAWAR DIVISION :	Fairly widespread rain fell on one day and scattered on two days.
D. I. KHAN DIVISION :	} Rainfall was scattered on one day.
QUETTA DIVISION :	
KALAT DIVISION :	
KARACHI DIVISION :	} Weather remained dry during the week.
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 Rawalpindi, Sargodha, Bahawalpur, Peshawar and Khairpur divisions; in excess in Dacca and Rajshahi divisions; deficient in Khulna division and scanty in Chittagong division. No rain fell elsewhere over West Pakistan.

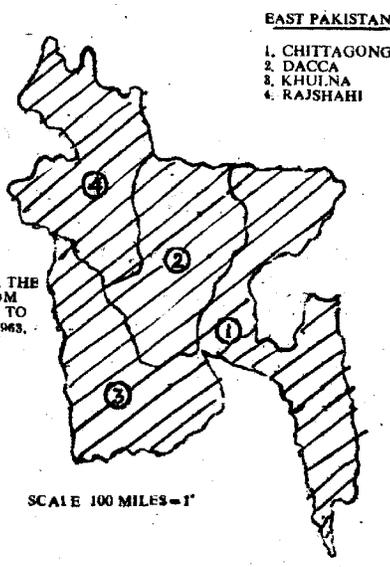
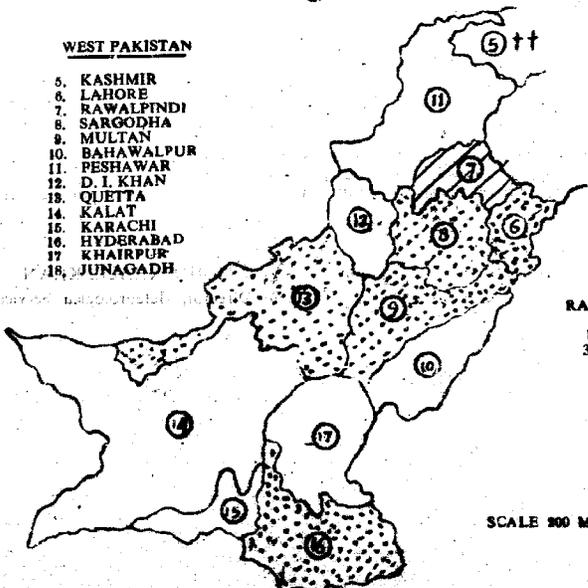
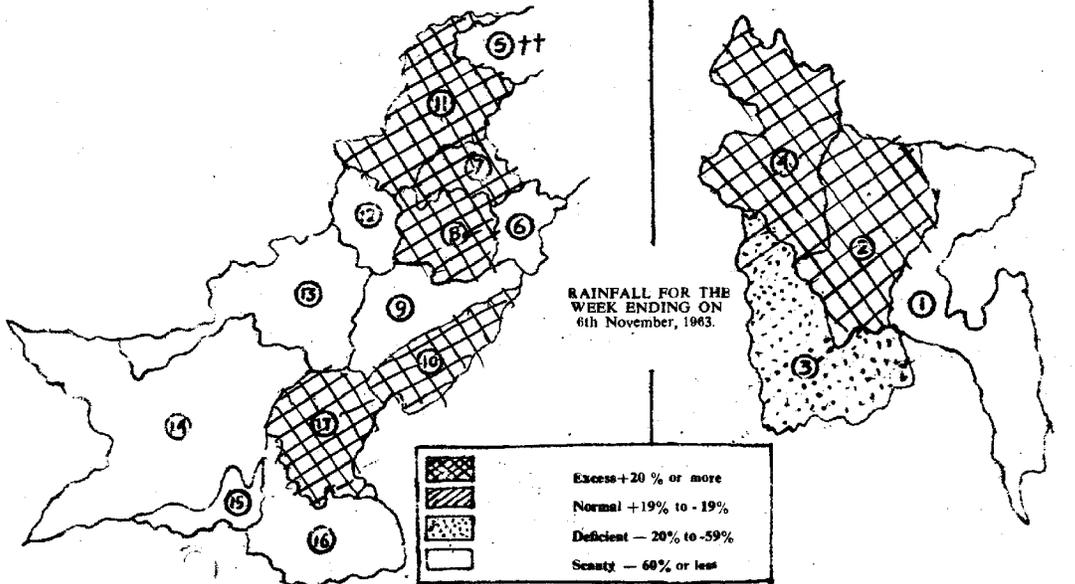
Rainfall for period the from 1st June, 1963 to 31st October, 1963 was normal in East Pakistan and in Rawalpindi division; deficient in Lahore, Sargodha, Multan, Quetta and Hyderabad divisions and scanty elsewhere over the country.

4. The table overleaf summarises the rainfall statistics for the eighteen divisions of Pakistan, both for the week and for the period from 1st June, 1963 to 31st October, 1963.

WEEKLY WEATHER REPORT

Division	Rainfall for week ending on 6th November, 1963.			Rainfall for Period from 1st June, 1963 to 31st October, 1963.			
	Actual	Normal	*Excess or defect	Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	0.4	1.0	- 0.6	95.5	81.0	+ 14.5	+ 18
2. Dacca	0.9	0.6	+ 0.3	57.3	58.3	- 1.0	- 1
3. Khulna	0.4	0.6	- 0.3	64.5	55.0	+ 9.5	+ 17
4. Rajshahi	0.6	0.3	+ 0.3	54.6	59.5	- 4.9	- 8
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0	0	0	13.4	19.3	- 5.8	- 30
7. Rawalpindi	0.5	0.1	+ 0.5	28.3	30.7	- 2.4	- 8
8. Sargodha	0.2	0	+ 0.2	4.8	9.8	- 5.1	- 51
9. Multan	0	0	0	2.7	6.3	- 3.6	- 58
10. Bahawalpur	0.1	0	+ 0.1	1.3	4.6	- 3.2	- 70
11. Peshawar	0.8	0.1	+ 0.8	2.2	8.5	- 6.3	- 74
12. D. I. Khan	0	0	0	1.1	5.2	- 4.0	- 78
13. Quetta	0	0	0	1.2	2.9	- 1.7	- 58
14. Kalat	0	0	0	0.1	1.1	- 1.1	- 96
15. Karachi	0	0	0	0.2	3.4	- 3.2	- 93
16. Hyderabad	0	0	0	4.2	6.6	- 2.5	- 37
17. Khairpur	0	0	0	0.1	2.3	- 2.2	- 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.



RAINFALL FOR THE PERIOD FROM
1st June, 1963 TO
31st October, 1963.

WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 13th November, 1963.

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SUMMARY OF WEATHER

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

Night temperatures were slightly below normal in most of the northern districts of the province on the 7th and the 8th and only in Khulna division on the 10th. These were otherwise nearly normal in the province during the week.

WEST PAKISTAN:—Last week's western disturbance which lay over D. I. Khan division, moved away eastwards across Multan and Lahore divisions on the first day of the week after causing widespread rain or thundershowers in Peshawar and Rawalpindi divisions, local in Lahore division and scattered in D. I. Khan division. Two more western disturbances affected the weather over the province between the 9th and the 11th. The first one moved across Kalat and Bahawalpur divisions and the other one across the northern parts of the province. These caused scattered thunderstorms in Bahawalpur division and a few falls of drizzle in Lahore, D. I. Khan and Quetta divisions on the 9th and in Multan division on the 10th and scattered rain in Multan and Peshawar divisions on the 11th.

Chief amounts of rain fall recorded during the week were:—Jhelum and Sialkot 1½" each, Kakul 1" and Murree and Peshawar ¾" each on the 7th.

Night temperatures were generally markedly above normal in southern divisions on the 7th and the 8th, in Lahore, Sargodha, Multan, D. I. Khan and Khairpur divisions on the 10th and in the central divisions between the 12th and the 13th. These were slightly to appreciably above normal over the province during the week.

2. CHITTAGONG DIVISION :

DACCA DIVISION :

KHULNA DIVISION :

RAJSHAHI DIVISION :

KASHMIR :

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 :

Weather remained dry during the week.

Data not available.

Local rain fell on one day.

Widespread rain fell on one day.

Weather remained dry during the week.

Scattered rain fell on one day.

No rain fell during the week.

Widespread and scattered rain fell on one day each.

Scattered rain fell on one day.

No rain fell during the week.

Data not available.

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

Rainfall for the period from 1st November, 1963 to-date was in large excess in Lahore, Rawalpindi, Sargodha, Multan, Bahawalpur, Peshawar and Khairpur divisions; normal in Dacca and Rajshahi divisions; deficient in Khulna division and scanty in Chittagong and D. I. Khan divisions. No rain fell 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, 1963 to-date.

Karachi—11

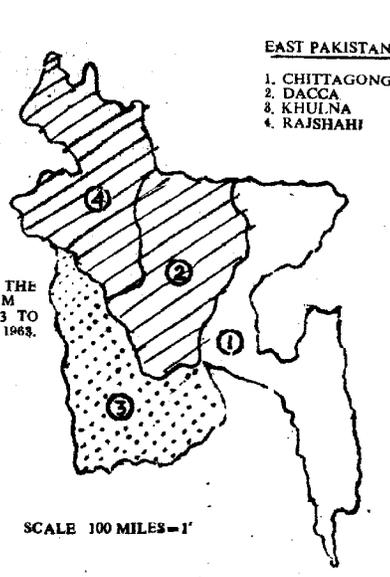
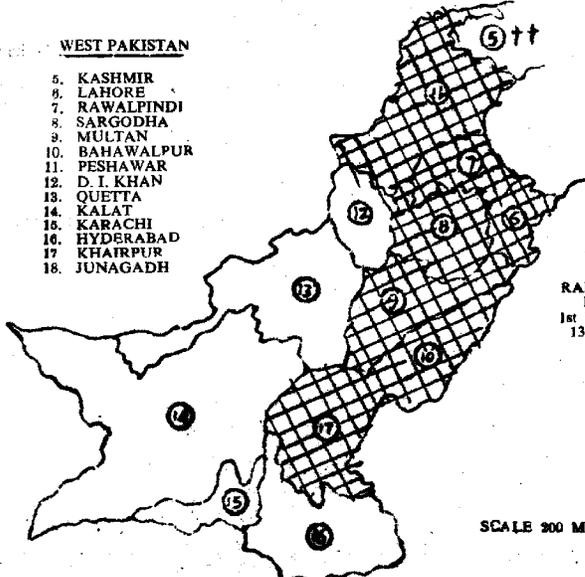
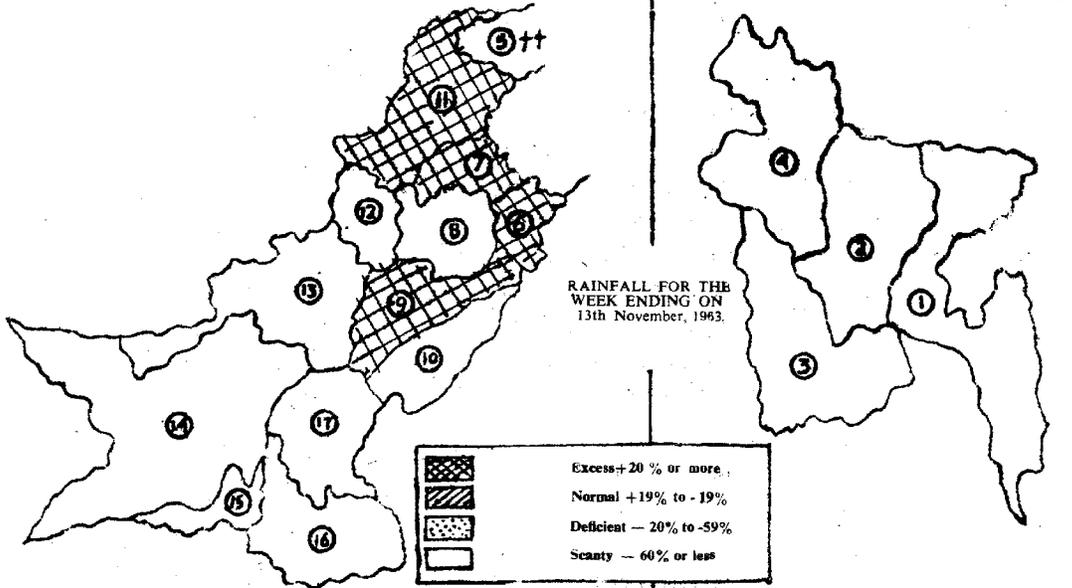
The 13th November, 1963.

MOHD. KHALIL KHAN
for Director, Meteorological Service.

WEEKLY WEATHER REPORT

Division	Rainfall for week ending on 13th November, 1963.			Rainfall for Period from 1st November, 1963 to 13th November, 1963.			
	↑ Actual	Normal	*Excess or defect	↑ Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	0	0.4	- 0.4	0.4	1.4	- 1.0	- 72
2. Dacca	0	0.2	- 0.2	0.9	0.8	+ 0.1	+ 13
3. Khulna	0	0.3	- 0.3	2.4	0.9	- 0.5	- 58
4. Rajshahi	0	0.2	- 0.2	0.6	0.5	+ 0.1	+ 14
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0.6	0	+ 0.6	0.6	0	+ 0.6	+ 3050
7. Rawalpindi	0.8	0.1	+ 0.7	1.3	0.2	+ 1.1	+ 633
8. Sargodha	0	0	0	0.2	0	+ 0.2	+ 1900
9. Multan	0.1	0	+ 0.1	0.1	0	+ 0.1	+ 600
10. Bahawalpur	0	0	0	0.1	0	+ 0.1	+ 900
11. Peshawar	0.6	0	+ 0.5	1.4	0.1	+ 1.4	+ 1544
12. D. I. Khan	0	0	0	0	0	0	- 100
13. Quetta	0	0	0	0	0	0	- 100
14. Kalat	0	0	0	0	0	0	0
15. Karachi	0	0	0	0	0	0	- 100
16. Hyderabad	0	0	0	0	0	0	- 100
17. Khairpur	0	0	0	0	0	0	- 400
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 20th November, 1963.

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SUMMARY OF WEATHER

EAST PAKISTAN:—Weather continued to be dry over the province during the week.

Night temperatures were generally slightly below normal over the southern districts of the province on the first two days of the week. These were slightly to appreciably above normal in Rajshahi division on the 17th, in Dacca and Khulna divisions on the 18th and only in the last remained division on the 19th.

WEST PAKISTAN:—A western disturbance which approached Iran and adjoining Afghanistan on the last day of the previous week, moved away northeast-wards across Peshawar division by the 16th. Under its influence rain or thundershowers were fairly widespread in Peshawar and Rawalpindi divisions, local in D. I. Khan and Quetta divisions and scattered in Kalat, Sargodha divisions on the 14th and local in Peshawar and Rawalpindi divisions on the 15th. Isolated thundershowers also occurred over the hills of the last mentioned division on the 16th. On the last day of the week another western disturbance approached Afghanistan and adjoining D. I. Khan and Peshawar divisions while trough of low developed over Rajasthan. Under their combined influence local rain fell in Quetta division and scattered in Bahawalpur division. A few falls of drizzle also occurred in Multan and Khairpur divisions.Chief amounts of rainfall recorded during the week were:—Landikotal $1\frac{1}{2}$ " and Murree, Haripur, Kakul and Nushki $\frac{1}{2}$ " each on the 14th; Kakul 1" on the 15th and Bahawalpur $\frac{3}{4}$ " and Sibi $\frac{1}{2}$ " on the 20th.

Night temperatures were markedly above normal in Kalat, Hyderabad, Khairpur, Lahore and Sargodha divisions on the 14th and were to the same extent below normal in Quetta division on the 16th. There were, otherwise slightly to appreciably above normal over most of the province during the week.

2. CHITTAGONG DIVISION :	}	Weather remained dry during the week.
DACCA DIVISION :		
KHULNA DIVISION :		
RAJSHAHI DIVISION :		
KASHMIR :		Data not available.
LAHORE DIVISION :		No rain fell during the week.
RAWALPINDI DIVISION :		Fairly widespread and scattered rain fell on one day each.
SARGODHA DIVISION :		Scattered rain fell on one day.
MULTAN DIVISION :		Weather remained mainly dry.
BAHAWALPUR DIVISION :		Scattered rain fell on one day.
PESHAWAR DIVISION :		Rainfall was fairly widespread and local on one day each.
D. I. KHAN DIVISION :		Local rain fell on one day.
QUETTA DIVISION :		Local rain fell on two days.
KALAT DIVISION :		Scattered rain fell on one day.
KARACHI DIVISION :	}	Weather remained dry during the week.
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 Rawalpindi, Sargodha, Bahawalpur, Peshawar, D. I. Khan and Quetta divisions and normal in Kalat division. No rain fell elsewhere over the country.

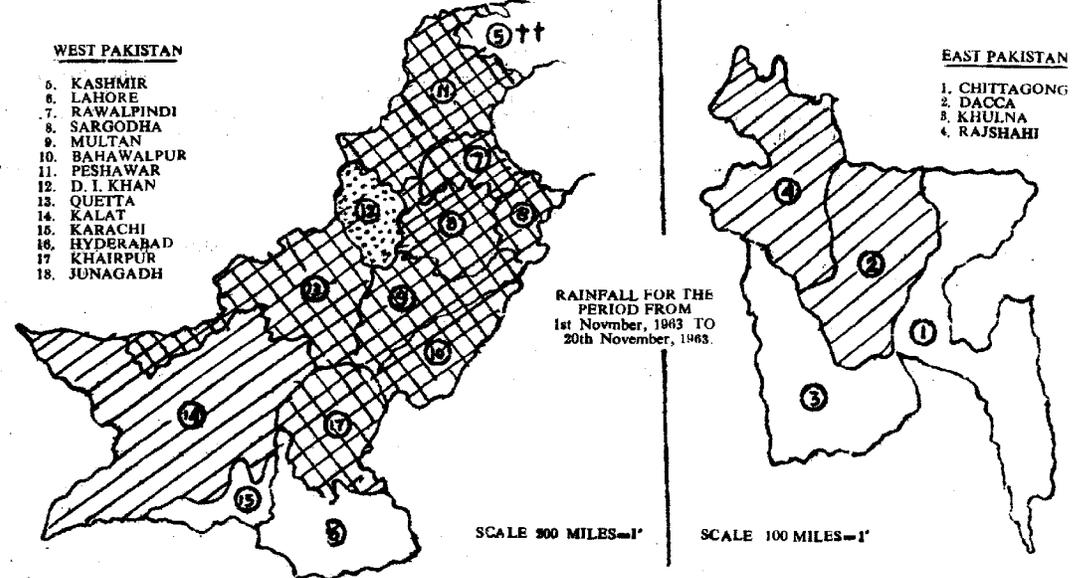
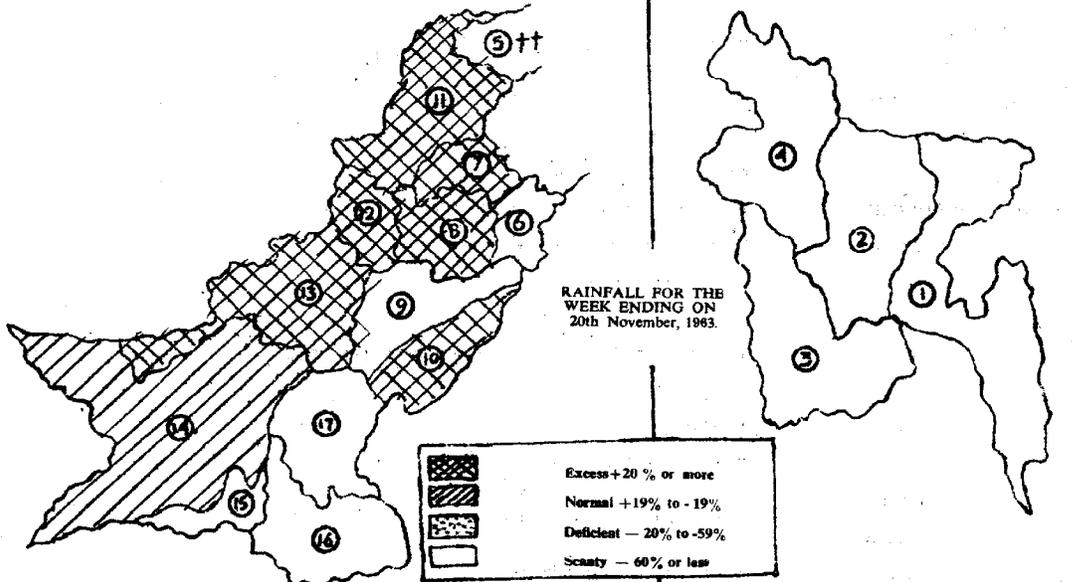
Rainfall for the period from the 1st November 1963 to-date was in large excess in Lahore, Rawalpindi, Sargodha, Multan, Bahawalpur, Peshawar, Quetta and Khairpur divisions, normal in Dacca, Rajshahi and Kalat divisions, deficient in D. I. Khan, scanty in Chittagong and Khulna divisions whereas no rain has fallen so far in Karachi, 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 1963 to-date.

WEEKLY WEATHER REPORT

Division	Rainfall for week ending on 20th November, 1963.			Rainfall for Period from 1st November, 1963 to 20th November, 1963.			
	↑ Actual	Normal	*Excess or defect	↑ Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	0	0.2	- 0.2	0.4	1.7	- 1.3	- 76
2. Dacca	0	0.2	- 0.2	0.9	1.0	- 0.1	- 7
3. Khulna	0	0.2	- 0.2	0.4	1.1	- 0.7	- 67
4. Rajshahi	0	0.1	- 0.1	0.6	0.6	0	- 3
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0	0.1	- 0.1	0.6	0.1	+ 0.6	+ 800
7. Rawalpindi	0.5	0.1	+ 0.4	1.9	0.3	+ 1.6	+ 541
8. Sargodha	0.2	0.1	+ 0.1	0.4	0.1	+ 0.3	+ 660
9. Multan	0	0	0	0.1	0	+ 0.1	+ 650
10. Bahawalpur	0.4	0	+ 0.4	0.5	0	+ 0.5	+ 4700
11. Peshawar	0.1	0	+ 0.1	1.5	0.1	+ 1.4	+ 1400
12. D. I. Khan	0	0	0	0	0	0	- 50
13. Quetta	0.2	0	+ 0.2	0.2	0.1	+ 0.2	+ 320
14. Kalat	0.1	0.1	0	0.1	0.1	0	- 13
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	- 400
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**
6. KASHMIR
 8. LAHORE
 7. RAWALPINDI
 8. SARGODHA
 9. MULTAN
 10. BAHAWALPUR
 11. PESHAWAR
 12. D. I. KHAN
 13. QUETTA
 14. KALAT
 16. KARACHI
 16. HYDERABAD
 17. KHAIRPUR
 18. JUNAGADH

- EAST PAKISTAN**
1. CHITTAGONG
 2. DACCA
 3. KHULNA
 4. RAJSHAHI

SCALE 300 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 27th November, 1963.

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SUMMARY OF WEATHER

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

Night temperatures were slightly above normal in Khulna, Dacca and Rajshahi divisions between the 23rd and the 25th and in Khulna, Rajshahi and Chittagong divisions on the 27th.

WEST PAKISTAN: Last week's western disturbance over Peshawar and D. I. Khan divisions moved away across Kashmir by the 22nd after causing local rain or thundershowers in Rawalpindi division, scattered in Quetta division and a few falls of light rain or thunderstorms in Lahore, Peshawar and Khairpur divisions on the 12th.

Two western disturbances moved thereafter in close succession across the extreme northern divisions of the province between the 23rd and the 25th. The second one induced a secondary over North Arabian Sea on the 24th which passed eastwards to Kutch and Saurashtra on the following day. Under their combined influence widespread rain or thundershowers occurred in Hyderabad division, local in Kalat and Karachi divisions and scattered in Khairpur division on the 25th, scattered in Kalat division and a few falls of light rain or drizzle in Quetta and Karachi divisions on the preceding day and a few thunderstorms in Peshawar and Rawalpindi divisions on the 23rd.

Two more western disturbances which moved respectively across Afghanistan and southeast Iran to D. I. Khan and Quetta divisions on the last day of the week, caused scattered rain or drizzle in these divisions and also in Peshawar division the same day.

Noteworthy amounts of rainfall recorded were:—Jiwani $1\frac{1}{2}$ " and Turbat $\frac{1}{2}$ " on the 24th and Karachi (Majora) Karachi (Airport) 1", Turbat and Hyderabad $\frac{3}{4}$ " each and Umerkot $\frac{1}{4}$ " on the 25th.

Night temperatures were slightly to appreciably above normal mainly in the northern and central divisions during the last three days of the week. These were markedly above normal in Kalat and Quetta divisions and appreciably so in Karachi, Hyderabad and Khairpur divisions on the 24th and appreciably above normal practically over the whole province during the last three days of the week.

2. CHITTAGONG DIVISION :	}	Weather remained dry.
DACCA DIVISION :		
KHULNA DIVISION :		
RAJSHAH I DIVISION :		
KASHMIR :		Data not available.
LAHORE DIVISION :		No rain fell during the week.
RAWALPINDI DIVISION :		Local rain fell on one day.
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 :		Scattered rain fell on one day.
KALAT DIVISION :		Local rain fell on two days.
KARACHI DIVISION :		Local rain fell on one day.
HYDERABAD DIVISION :		Widespread rain fell on one day.
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 Karachi, Hyderabad and Khairpur divisions; in excess in Rawalpindi division and deficient in Quetta and Kalat divisions whereas no rain fell elsewhere over the country.

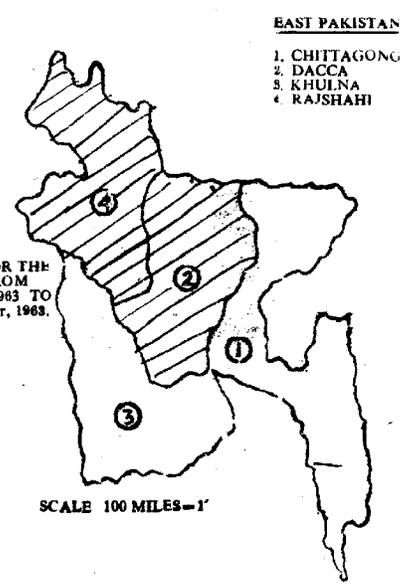
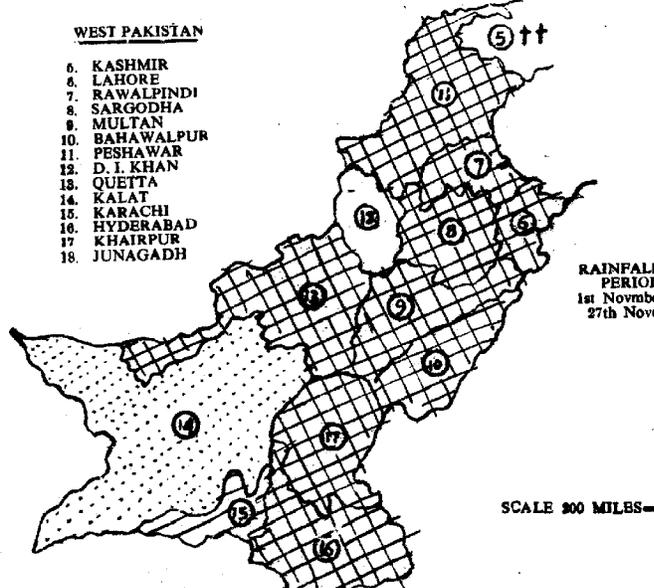
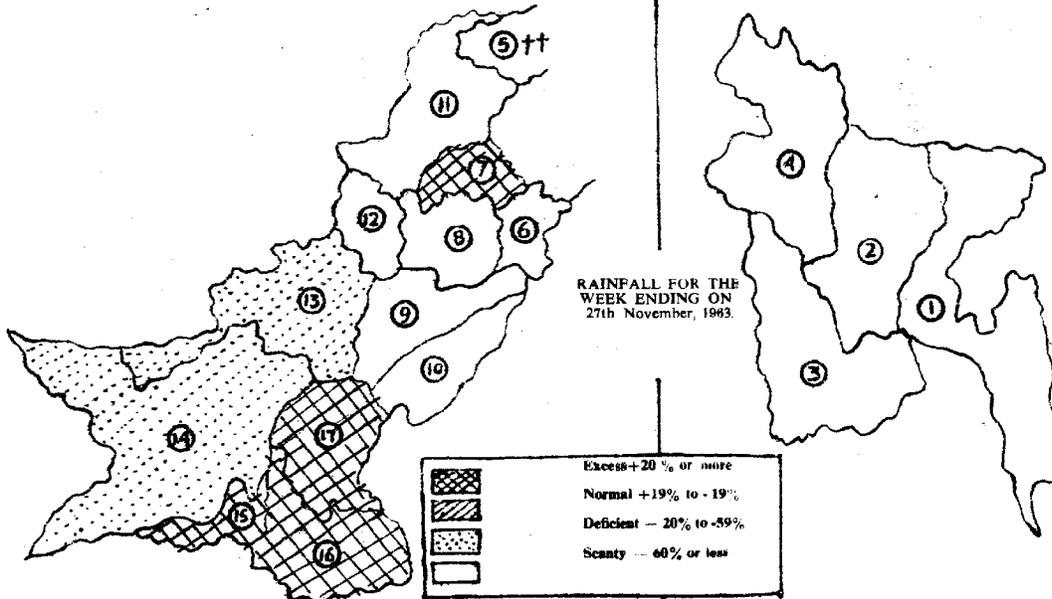
Rainfall for the period from 1st November, 1963 to-date was in large excess in Lahore, Rawalpindi, Sargodha, Bahawalpur, Peshawar, Karachi, Hyderabad and Khairpur divisions; in excess in Multan division; normal in Dacca and Rajshahi divisions; deficient in Kalat division and scanty elsewhere over the 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, 1963 to-date.

WEEKLY WEATHER REPORT

Division	Rainfall for week ending on 27th November, 1963.			Rainfall for Period from 1st November, 1963 to 27th November, 1963.			
	↑ Actual	Normal	*Excess or defect	↑ Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	0	0.3	- 0.3	0.4	1.9	- 1.5	- 80
2. Dacca	0	0.1	- 0.1	0.9	1.1	- 0.1	- 13
3. Khulna	0	0.1	- 0.1	0.4	1.2	- 0.8	- 69
4. Rajshahi	0	0.1	- 0.1	0.6	0.6	- 0.1	- 13
5. Kashmir ††	-	-	-	-	-	-	-
6. Lahore	0	0	0	0.6	0.1	+ 0.5	+ 530
7. Rawalpindi	0.2	0.2	+ 0.1	2.1	0.5	+ 1.6	+ 354
8. Sargodha	0	0.1	- 0.1	0.4	0.1	+ 0.3	+ 280
9. Multan	0	0	0	0.1	0	0	+ 50
10. Bahawalpur	0	0.1	- 0.1	0.5	0.1	+ 0.4	+ 840
11. Peshawar	0	0.2	- 0.2	1.5	0.3	+ 1.2	+ 436
12. D. I. Khan	0	0	0	0	0.1	- 0.1	- 71
13. Quetta	0.1	0.1	0	0.3	0.1	+ 0.1	+ 117
14. Kalat	0	0.1	0	0.1	0.1	0	- 29
15. Karachi	0.6	0	+ 0.6	0.6	0	+ 0.5	+ 1325
16. Hyderabad	1.0	0	+ 1.0	1.0	0.1	+ 0.9	+ 791
17. Khairpur	0.1	0	0	0.1	0	+ 0.1	+ 350
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 4th December, 1963.

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SUMMARY OF WEATHER

EAST PAKISTAN:-- A wave of low pressure, while moving eastwards across the extreme north of the province, caused local rainfall in Dacca division on the 2nd. Weather otherwise remained dry during the week.

Night temperatures were slightly below normal in Chittagong division and to the same extent above normal in Rajshahi division on the 4th. These were appreciably to markedly above normal in the province on the 2nd and slightly to appreciably so during the rest of the week.

WEST PAKISTAN:—Last week's western disturbances which lay respectively over Sargodha and Quetta divisions both moved away northeastwards after causing scattered to local rain in Quetta and Kalat divisions on the 28th and in Quetta and Peshawar divisions on the 29th. A few falls of light rain also occurred in Lahore, Peshawar, Rawalpindi, and D. I. Khan divisions and isolated thunderstorms in Bahawalpur division on the 28th.

Fortsandeman, Hidubagh, Loralai and Quetta recorded $\frac{1}{4}$ " of rainfall each on the 28th.

Night temperatures were slightly above normal over the major part of the province on the first three days and in Lahore, Kalat and Hyderabad divisions on the last four days of the week. These were markedly below normal in the western parts of Quetta division and slightly so in Multan, Sargodha and D. I. Khan divisions on the 4th.

2. CHITTAGONG DIVISION :	Weather remained dry.
DACCA DIVISION :	Local rain fell on one day.
KHULNA DIVISION :	} Weather remained dry.
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 :	Local and scattered rain fell on one day each.
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 normal in Dacca division; deficient in Quetta and Kalat divisions and scanty in Rawalpindi, Peshawar and D. I. Khan divisions whereas no rain fell elsewhere over the country.

Rainfall for the period from 1st November, 1963 to-date was in large excess in Lahore, Rawalpindi, Sargodha, Bahawalpur, Peshawar, Karachi and Hyderabad divisions; in excess in Khairpur division; normal in Dacca, Rajshahi, Multan and Quetta divisions; deficient in Kalat division 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, 1963 to-date.

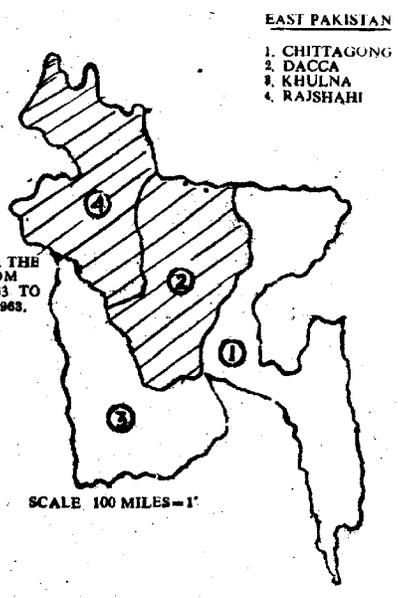
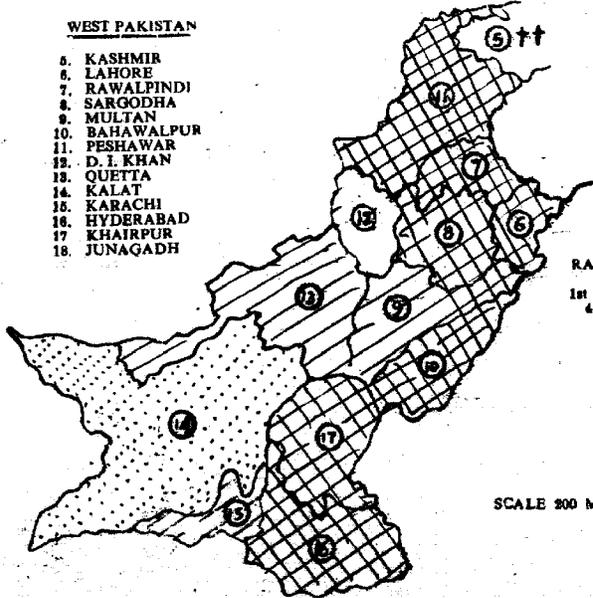
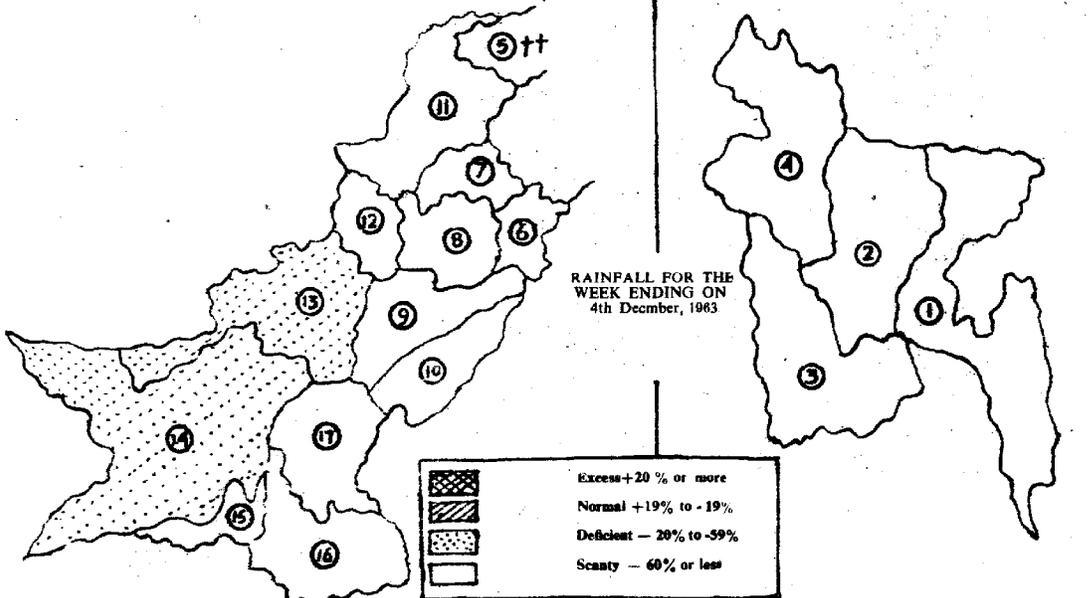
Karachi—11
The 4th December, 1963.

SIBTE NABI NAQVI
Director, Meteorological Service.

WEEKLY WEATHER REPORT

Division	Rainfall for week ending on 4th December, 1963.			Rainfall for Period from 1st November, 1963 to 4th December, 1963.			
	Actual	Normal	*Excess or defect	Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	0	0.1	- 0.1	0.4	2.0	- 1.6	- 81
2. Dacca	0	0	0	1.0	1.1	- 0.1	- 13
3. Khulna	0	0	0	9.4	1.2	- 0.9	- 70
4. Rajshahi	0	0	0	0.6	0.7	- 0.1	- 14
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0	0.1	- 0.1	0.6	0.2	+ 0.5	+ 250
7. Rawalpindi	0	0.1	- 0.1	2.1	0.6	+ 1.5	+ 248
8. Sargodha	0	0	0	0.4	0.1	+ 0.3	+ 245
9. Multan	0	0	0	0.1	0.1	0	Normal
10. Bahawalpur	0	0.2	- 0.2	0.5	0.1	+ 0.4	+ 571
11. Peshawar	0	0.1	- 0.1	1.5	0.5	+ 1.0	+ 219
12. D. I. Khan	0	0.1	- 0.1	0	0.1	- 0.1	- 77
13. Quetta	0.1	0.2	- 0.2	0.4	0.3	+ 0.1	+ 19
14. Kalat	0.1	0.1	- 0.1	0.2	0.3	- 0.1	- 33
15. Karachi	0	0	0	0.6	0	+ 0.5	+ 1325
16. Hyderabad	0	0	0	1.0	0.1	+ 0.8	+ 600
17. Khairpur	0	0	0	0.1	0.1	0	+ 50
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
- 18. JUNAGADH

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

WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 11th December, 1963.

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SUMMARY OF WEATHER

EAST PAKISTAN:—Weather remained dry over the province during the week. Night temperatures were slightly to appreciably above normal over the province outside Chittagong division practically throughout the week.

WEST PAKISTAN:—A western disturbance which lay over Kalat and Quetta divisions on the 10th, weakened and lay as a trough of low over D. I. Khan division and adjoining areas on the last day of the week. It caused scattered rain in Peshawar division and light rain or drizzle in Rawalpindi division.

Night temperatures were appreciably above normal in Hyderabad, Karachi, Kalat and Khairpur divisions between the 6th and the 11th and appreciably so in these divisions only on the first day and elsewhere in the province during the last five days.

2. CHITTAGONG DIVISION :

DACCA DIVISION :

KHULNA DIVISION :

RAJSHAHI DIVISION :

} Weather remained dry during the week.

KASHMIR :

} Data not available.

LAHORE DIVISION :

} Weather remained dry.

RAWALPINDI DIVISION :

} Weather remained mainly dry.

SARGODHA DIVISION :

MULTAN DIVISION :

} No rain fell during the week.

BAHAWALPUR DIVISION :

PESHAWAR DIVISION :

} Scattered rain fell on one day.

D. I. KHAN DIVISION :

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 scanty in Rawalpindi division whereas no rain fell elsewhere over the country.

Rainfall for the period from 1st November, 1963 to-date was in large excess in Lahore, Rawalpindi, Sargodha, Bahawalpur, Peshawar, Karachi and Hyderabad divisions; in excess in Khairpur division; normal in Dacca and Rajshahi divisions; deficient in Multan and Quetta divisions and scanty 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 November, 1963 to-date.

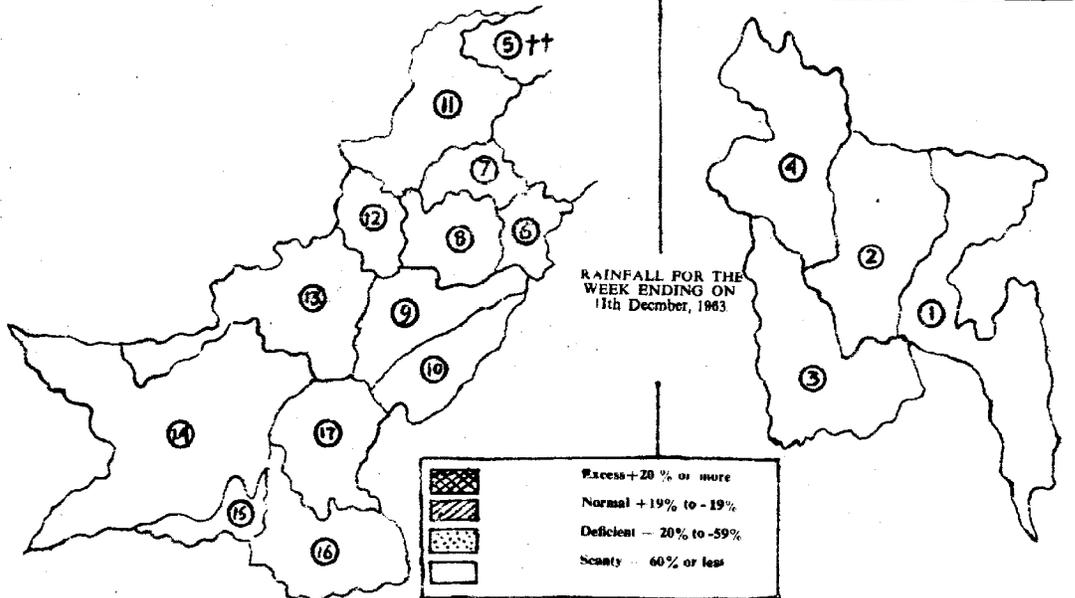
Karachi--11
The 11th December, 1963.

SIBTE NABI NAQVI
Director, Meteorological Service.

WEEKLY WEATHER REPORT

Division	Rainfall for week ending on 11th December, 1963.			Rainfall for Period from 1st November, 1963 to 11th December, 1963.			
	Actual	Normal	*Excess or defect	Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	0	0.2	- 0.2	0.4	2.2	- 1.9	- 83
2. Dacca	0	0.1	- 0.1	1.0	1.2	- 0.2	- 17
3. Khulna	0	0.1	- 0.1	0.4	1.3	- 1.0	- 72
4. Rajshahi	0	0	0	0.6	0.7	- 0.1	- 18
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0	0.1	- 0.1	0.6	0.2	+ 0.4	+ 163
7. Rawalpindi	0	0.2	- 0.2	2.1	0.8	+ 1.3	+ 156
8. Sargodha	0	0	0	0.4	0.1	+ 0.2	+ 142
9. Multan	0	0.1	- 0.1	0.1	0.1	- 0.1	- 45
10. Bahawalpur	0	0	0	0.5	0.1	+ 0.4	+ 422
11. Peshawar	0	0.2	- 0.2	1.5	0.6	+ 0.9	+ 134
12. D. I. Khan	0	0.1	- 0.1	0	0.2	- 0.2	- 86
13. Quetta	0	0.2	- 0.2	0.4	0.5	- 0.1	- 24
14. Kalat	0	0.2	- 0.2	0.2	0.5	- 0.3	- 62
15. Karachi	0	0	0	0.6	0.1	+ 0.5	+ 613
16. Hyderabad	0	0	0	1.0	0.1	+ 0.8	+ 600
17. Khairpur	0	0	0	0.1	0.1	0	+ 29
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.

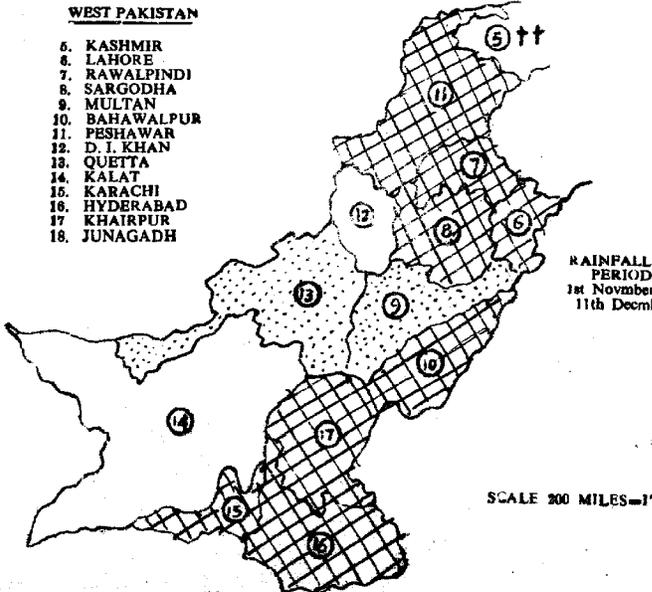


WEST PAKISTAN

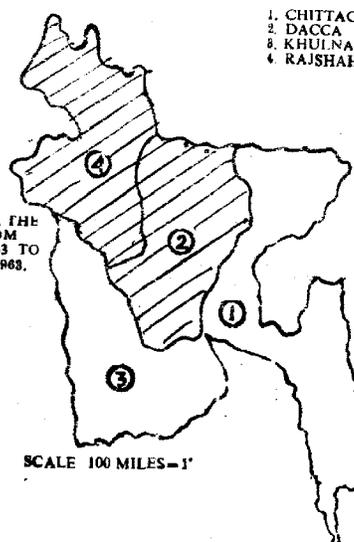
- 5. KASHMIR
- 6. LAHORE
- 7. RAWALPINDI
- 8. SARGODHA
- 9. MULTAN
- 10. BAHAWALPUR
- 11. PESHAWAR
- 12. D. I. KHAN
- 13. QUETTA
- 14. KALAT
- 15. KARACHI
- 16. HYDERABAD
- 17. KHAIKPUR
- 18. JUNAGADH

EAST PAKISTAN

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



RAINFALL FOR THE PERIOD FROM 1st November, 1963 TO 11th December, 1963.



WEEKLY WEATHER REPORT FOR PAKISTAN AND KASHMIR

For the week ending at 0300 hours G.M.T. on Wednesday the 18th December, 1963.

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SUMMARY OF WEATHER

EAST PAKISTAN:—A low pressure wave while moving eastwards across the extreme north of the province caused scattered rain in Rajshahi division and a few falls of light rain in Khulna and Dacca divisions on the 15th. Weather otherwise remained dry during the week.

Night temperatures were appreciably and markedly above normal in Rajshahi, Khulna and Dacca divisions on the 15th and slightly to appreciably so practically over the whole province during the rest of the week.

WEST PAKISTAN:—Last week's trough of low over D. I. Khan division moved away northeastwards across Kashmir after causing scattered rain in Rawalpindi division and a few falls of drizzle in Lahore division on the first day of the week. An active western disturbance which lay over Afghanistan and the adjoining parts of West Pakistan on the 12th moved away across the northern divisions of the province by the 14th. It caused widespread rain or thundershowers in Rawalpindi, Sargodha and Peshawar divisions with scattered to local falls in Lahore, D. I. Khan and Quetta divisions on the 13th, in Peshawar and Quetta divisions, in Peshawar and Quetta divisions a day earlier and in Rawalpindi and Peshawar divisions on the 14th. A few falls of light rain or thunderstorms were also reported from Sargodha and D. I. Khan divisions on the 14th snowfalls were reported from the hills of Rawalpindi division both on the 13th and the 14th.

Chief amounts of rainfall recorded during the week were:—Campbellpur 3", Landikotal 2" and Rawalpindi, Cherat, Peshawar and Chakdara 1½" on the 13th.

Night temperatures were markedly to considerably above normal in Quetta, Kalat, Hyderabad and Lahore divisions on the 12th and slightly to appreciably so elsewhere over the province on the same day and in northern and central divisions during the next three days. These were slightly to appreciably below normal in some of the central and the southern divisions during the last three days of the week.

2 CHITTAGONG DIVISION :	Weather remained dry.
DACCA DIVISION :	Weather remained mainly dry.
KHULNA DIVISION :	Weather remained mainly dry.
RAJSHAHI DIVISION :	Scattered rain fell on one day.
KASHMIR :	Data not available.
LAHORE DIVISION :	Local rain fell on one day.
RAWALPINDI DIVISION :	Widespread, local and scattered rain fell on one day each.
SARGODHA DIVISION :	Widespread rain fell on one day.
MULTAN DIVISION :	Weather was mainly dry.
BAHAWALPUR DIVISION :	No rain fell during the week.
PESHAWAR DIVISION :	Widespread rain fell on one day.
D. I. KHAN DIVISION :	Local rain fell on one day.
QUETTA DIVISION :	Scattered rain fell on two 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 large excess in Rawalpindi, Sargodha and Peshawar divisions; in excess in Rajshahi division; normal in Lahore and Quetta divisions; deficient in Khulna division and scanty in Dacca, Multan and D. I. Khan divisions whereas no rain fell elsewhere over the country.

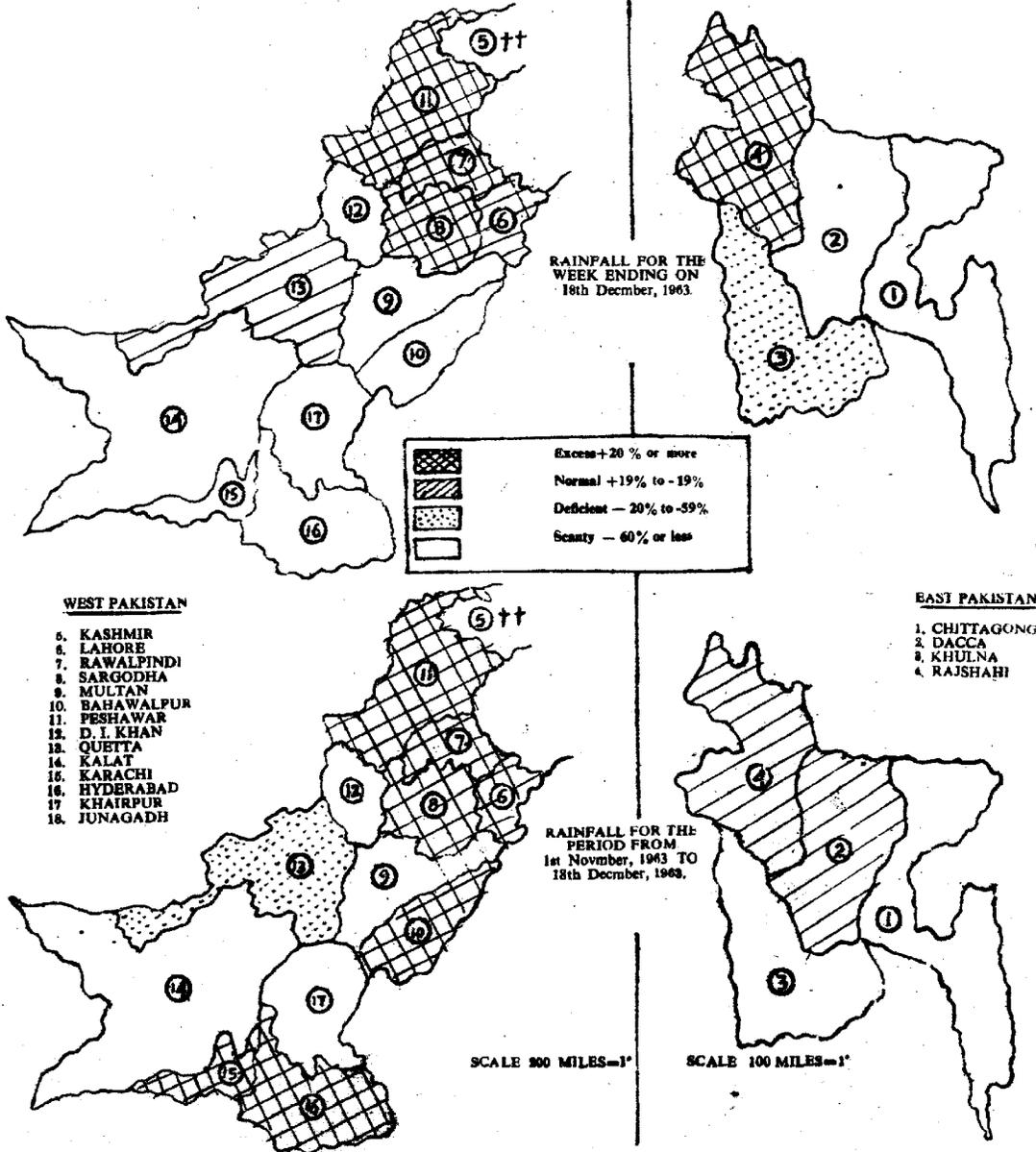
Rainfall for the period from 1st November, 1963 to-date was in large excess in Lahore, Rawalpindi, Peshawar, Sargodha, Bahawalpur, Karachi and Hyderabad divisions; normal in Dacca and Rajshahi divisions; deficient in Quetta division and scanty elsewhere over the country.

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, 1963 to-date.

WEEKLY WEATHER REPORT

Division	Rainfall for week ending on 18th December, 1963.			Rainfall for Period from 1st November, 1963 to 18th December, 1963.			
	↑ Actual	Normal	*Excess or defect	↑ Actual	Normal	*Excess or defect	
						Inches	Per-Cent
1. Chittagong	0	0.1	- 0.1	0.4	2.3	- 2.0	- 83
2. Dacca	0	0	0	1.0	1.2	- 0.2	- 18
3. Khulna	0	0	0	9.4	1.4	- 1.0	- 72
4. Rajshahi	0	0	0	0.6	0.7	- 0.1	- 16
5. Kashmir ††	—	—	—	—	—	—	—
6. Lahore	0.2	0.2	0	0.8	0.4	+ 0.4	+ 98
7. Rawalpindi	1.4	0.3	+ 1.1	3.6	1.2	+ 2.4	+ 206
8. Sargodha	0.7	0.1	+ 0.5	1.0	0.3	+ 0.8	+ 300
9. Multan	0	0.1	- 0.1	0.1	0.2	- 0.1	- 65
10. Bahawalpur	0	0.1	- 0.1	0.5	0.2	+ 0.3	+ 124
11. Peshawar	1.7	0.2	- 1.5	3.2	0.9	+ 2.3	+ 266
12. D. I. Khan	0	0.1	- 0.1	0.1	0.3	- 0.3	- 82
13. Quetta	0.2	0.2	0	0.5	0.7	- 0.1	- 22
14. Kalat	0	0.3	- 0.3	0.2	0.8	- 0.6	- 77
15. Karachi	0	0.1	- 0.1	0.6	0.2	+ 0.4	+ 256
16. Hyderabad	0	0.1	- 0.1	1.0	0.2	+ 0.8	+ 416
17. Khairpur	0	0.2	- 0.2	0.1	0.3	- 0.2	- 64
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 December, 1963.

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SUMMARY OF WEATHER

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

Night temperatures were slightly above normal practically over the whole province during the week except on the 20th when these were normal.

WEST PAKISTAN:—Dry weather prevailed over the province during the week.

Night temperatures were markedly below normal in Quetta and Kalat divisions and slightly to appreciably so elsewhere over the province outside the northeastern divisions on the 24th and practically over the whole province on the next day. Earlier during the week slightly to appreciably below normal in the central divisions on the first four days and in Lahore and Quetta divisions on the 19th and the 20th and slightly above normal in Peshawar and Rawalpindi divisions on the 21st and the 22nd.

2. CHITTAGONG DIVISION :

Dacca Division :

Khulna Division :

Rajshahi Division :

Kashmir :

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 :

Weather remained dry.

Data not available.

No rain fell during the week.

Data not available.

3. Based on the data of stations having normals, no rain fell over the country during the week.

Rainfall for the period from 1st November 1963 to-date was in large excess in Rawalpindi, Sargodha, Bahawalpur, Peshawar, Karachi and Hyderabad divisions; in excess in Lahore division; normal in Rajshahi division; deficient in Dacca, Quetta 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 1963 to-date.

Karachi—11
The 25th December, 1963.K. U. SIDDIQI
for Director, Meteorological Services.

WEEKLY WEATHER REPORT

DIVISION.	Rainfall for week ending on 25th December 1963.			Rainfall for Period from 1st November 1963 to 25th December, 1963.			
	†Actual	Normal	*Excess or defect	†Actual	Normal	Excess or defect	
						Inches	Per—Cent.
1. Chittagong	0	0	0	0.4	2.4	- 2.0	- 84
2. Dacca	0	0	0	1.0	1.2	- 0.3	- 20
3. Khulna	0	0	0	0.4	1.4	- 1.0	- 73
4. Rajshahi	0	0	0	0.6	0.7	- 0.1	- 17
5. Kashmir††	—	—	—	—	—	—	—
6. Lahore	0	0.2	- 0.2	0.8	0.6	+ 0.3	+ 45
7. Rawalpindi	0	0.5	- 0.5	3.6	1.7	- 1.9	+ 117
8. Sargodha	0	0.1	- 0.1	1.0	0.4	+ 0.7	+ 181
9. Multan	0	0.1	- 0.1	0.1	0.3	- 0.2	- 73
10. Bahawalpur	0	0	0	0.5	0.2	+ 0.2	+ 105
11. Peshawar	0	0.3	- 0.3	3.2	1.1	+ 2.1	- 184
12. D. I. Khan	0	0.1	- 0.1	0.1	0.5	- 0.4	- 87
13. Quetta	0	0.2	- 0.2	0.5	0.9	- 0.4	- 41
14. Kalat	0	0.2	- 0.2	0.2	0.9	- 0.9	- 81
15. Karachi	0	0.1	- 0.1	0.6	0.3	+ 0.3	+ 111
16. Hyderabad	0	0	0	1.0	0.2	+ 0.8	+ 390
17. Khairpur	0	0	0	0.1	0.3	- 0.2	- 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.

