Area (km²)	ARF	Area (km²)	ARF	Area (km²)	ARF	
0.0	1.000	700.0	0.966	5 000.0	0.833	
100.0	0.994	800.0	0.961	6 000.0	0.811	
200.0	0.989	900.0	0.956	7 000.0	0.790	
300.0	0.983	1 000.0	0.951	8 000.0	0.773	
400.0	0.978	2 000.0	0.906	9 000.0	0.760	
500.0	0.974	3 000.0	0.878	10 000.0	0.748	
600.0	0.970	4 000.0	0.854			

Table 6.7. Area reduction factor for storms in the Chambal watershed

1° longitude and latitude grid, and the abovementioned method was then used to calculate PMP for the standard area of each grid. The Chambal and Betwa watersheds are presented below as an example.

(i) MAF was calculated for the storm that occurred on 27–29 June 1945 and transposed into each grid of the Chambal and Betwa watersheds. This storm covered the whole Chambal and Betwa watersheds, so it could be transposed into any grid of either watershed.

The relevant values were determined to be: $d_1 = 25.7^{\circ}\text{C}$; $d_2 = 28.5^{\circ}\text{C}$; $h_1 = 400 \text{ m}$; $(W_1)_{h1} = 84.0 - 8.0 = 76.0$; $(W_2)_{h1} = 108 - 10.0 = 98.0$; MMF = $(W_2)_{h1}/(W_1)_{h1} = 1.29$. Table 6.9 lists the MAF for each grid.

(ii) PMP was determined for the standard area of either Chambal or Betwa watershed (2 500 km², 5 000 km², 7 500 km² and 10 000 km²) using the above-mentioned method (see Table 6.10).

Table 6.8. Calculated results of PMP for the Chambal watershed

Watershed		PMP (mm)			
	Area (km²)	1 day	2 days	3 days	
	5 000	413	555	609	
	10 000	379	498	547	
	20 000	333	436	490	
	30 000	307	413	452	
	40 000	284	387	418	
	50 000	362	361	400	
Chambal	46 073	268	368	405	
Banas	48 577	266	364	402	
Kali Sindh	25 741	315	426	467	
Parvati	14 122	359	472	520	
Kunar	4 507	418	574	619	
Kunwari	7 610	396	529	571	