









Crop Weather Calendar of Rabi Bottle gourd: Dhaka Region (Districts: Dhaka, Tangail, Gazipur, Narsingdi, Narayanganj, Munshiganj, Manikgonj) Bangladesh

| Region: Dhaka | Rabi Bottle gourd | | | | | | | | | | | | | | | | | | | | Duration: 150-180 days | | | | | | | |
|---|--|------|------|------|--|------|------|------|----------|------|------|------|---|------|------|------|---|------|------|------|------------------------|------|------|------|------|--|--|--|
| Months | September | | | | October | | | | November | | | | December | | | | January | | | | February | | | | | | | |
| Std.Week/Normal | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | |
| Rainfall (mm) | 60.5 | 68.5 | 70.0 | 69.0 | 47.0 | 42.0 | 40.5 | 26.0 | 12.5 | 10.0 | 6.0 | 1.5 | 4.5 | 1.5 | 4.5 | 1.0 | 3.5 | 1.0 | 0.0 | 0.0 | 0.5 | 3.5 | 3.5 | 2.5 | 12.0 | | | |
| Max. Temp. (°C) | 32.3 | 32.2 | 32.3 | 32.3 | 32.5 | 32.3 | 32.0 | 31.5 | 30.9 | 30.6 | 29.8 | 29.0 | 28.3 | 27.6 | 26.2 | 25.5 | 24.8 | 24.0 | 23.9 | 24.5 | 25.0 | 26.2 | 27.2 | 28.3 | 28.9 | | | |
| Min. Temp. (°C) | 26.0 | 26.0 | 26.0 | 25.7 | 25.3 | 24.8 | 23.8 | 22.3 | 21.5 | 20.5 | 18.7 | 17.7 | 16.1 | 15.5 | 14.7 | 13.5 | 12.9 | 12.4 | 12.0 | 12.0 | 12.1 | 13.6 | 14.3 | 15.5 | 16.5 | | | |
| Mean Temp. (°C) | 29.2 | 29.1 | 29.1 | 29.0 | 28.9 | 28.5 | 27.9 | 26.9 | 26.2 | 25.5 | 24.3 | 23.3 | 22.2 | 21.5 | 20.5 | 19.5 | 18.8 | 18.2 | 17.9 | 18.3 | 18.6 | 19.9 | 20.7 | 21.9 | 22.7 | | | |
| RHmax (%) | 94.8 | 95.2 | 95.0 | 95.5 | 95.4 | 95.4 | 95.0 | 94.8 | 94.5 | 95.0 | 94.7 | 94.6 | 94.3 | 94.8 | 95.3 | 95.1 | 95.0 | 94.6 | 94.3 | 93.8 | 93.4 | 92.4 | 92.1 | 91.7 | 91.1 | | | |
| RHMin (%) | 70.2 | 69.4 | 69.7 | 68.0 | 65.7 | 63.0 | 60.2 | 55.5 | 54.6 | 51.5 | 49.3 | 47.5 | 46.3 | 47.6 | 49.4 | 49.8 | 49.1 | 50.3 | 48.8 | 46.2 | 43.3 | 42.3 | 39.4 | 39.7 | 38.9 | | | |
| RHmean (%) | 82.5 | 82.3 | 82.3 | 81.8 | 80.6 | 79.2 | 77.6 | 75.2 | 74.6 | 73.2 | 72.0 | 71.0 | 70.3 | 71.2 | 72.3 | 72.5 | 72.1 | 72.4 | 71.6 | 70.0 | 68.3 | 67.3 | 65.7 | 65.7 | 65.0 | | | |
| SShr (hrs) | 33.5 | 32.0 | 32.0 | 34.0 | 40.0 | 44.0 | 47.5 | 54.0 | 49.5 | 51.5 | 51.5 | 52.0 | 51.5 | 48.5 | 46.5 | 44.5 | 44.5 | 42.5 | 42.5 | 45.0 | 49.0 | 49.5 | 51.5 | 53.0 | 54.5 | | | |
| WD (deg) | 163 | 177 | 176 | 195 | 194 | 198 | 192 | 190 | 190 | 189 | 199 | 212 | 211 | 219 | 224 | 225 | 233 | 238 | 238 | 232 | 242 | 241 | 236 | 234 | 228 | | | |
| WS(Km/hr) | 5.5 | 5.3 | 4.3 | 4.6 | 4.0 | 3.9 | 4.1 | 3.8 | 3.7 | 3.7 | 3.7 | 3.7 | 3.6 | 3.7 | 3.7 | 3.7 | 3.7 | 4.1 | 4.0 | 4.1 | 4.3 | 4.3 | 4.5 | 5.0 | 5.3 | | | |
| Stage |  | | | |  | | | | | | | |  | | | |  | | | | | | | | | | | |
| Favorable environment | Day temperature 20-28° C, Night Temperature 18-23° C (different in Varieties to varieties) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature | Day temperature 20-28° C, Night Temperature 18-23° C (different in Varieties to varieties) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relative Humidity | 50-80% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Soil Temperature | 22-25° C | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sunshine Hour | 6 to 8 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Favorable conditions for insects and diseases | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fruit fly | Temperature: 25-30° C, RH: 60-91% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aphid | Temperature: 22-30° C, RH:60-85% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pumpkin beetle | Temperature: 25-32° C, RH: 65-80% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Powdery mildew | Temperature: 22-27° C, RH: Lower RH during day with higher RH during night | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Downy mildew | Temperature: 25-32° C, RH: 75-95% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wilting | Temperature: 22-27° C (Atmosphere), >24° C (Soil) RH: 70-80% (Soil) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Damping off | Temperature: 25-27° C, RH:70-80% (soil) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anthracnose | Temperature: 25-32° C, RH: High (89-85%), Higher infestation with continuous rainfall | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weather warning | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rainfall (mm) | 30 to 40 mm | | | | | | | | | | | | 15 to 20 mm | | | | | | | | | | | | | | | |
| Cloudy weather | Cloudy condition | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Drought | Drought due to excessive dry and warm weather | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duration of staying wet | 2 to 5 days | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hailstorm | Late season rainfall with hailstorms | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Windspeed (Km/hr.) | ≥ 40 Km/hr | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature (°C) | >32° C | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Crop Weather Calendar of Kharif Bottle gourd: Dhaka Region (Districts: Dhaka, Tangail, Gazipur, Narsingdi, Narayanganj, Munshiganj, Manikgonj) Bangladesh

| Region: Dhaka | Kharif Bottle gourd | | | | | | | | | | | | | | | | | Duration: 140-150 days | | | | |
|---|--|------|------|------|--|------|------|------|---|------|---------|------|---|------|------|------|------|------------------------|------|------|------|--|
| Months | March | | | | April | | | | May | | | | June | | | | | July | | | | |
| Std.Week/Normal | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| Rainfall (mm) | 4.0 | 9.5 | 13.5 | 20.5 | 25.0 | 21.0 | 31.5 | 42.5 | 46.0 | 55.5 | 55.0 | 75.5 | 70.0 | 72.5 | 86.5 | 81.0 | 77.5 | 82.5 | 73.5 | 91.0 | 81.5 | |
| Max. Temp. (°C) | 31.5 | 32.3 | 33.4 | 33.2 | 33.9 | 34.6 | 34.1 | 33.8 | 33.6 | 33.7 | 33.7 | 33.2 | 33.5 | 33.4 | 32.8 | 32.2 | 32.2 | 32.1 | 32.0 | 31.7 | 32.2 | |
| Min. Temp. (°C) | 18.6 | 19.8 | 21.3 | 21.8 | 22.9 | 23.5 | 23.7 | 23.6 | 23.7 | 24.2 | 24.6 | 24.9 | 25.4 | 25.8 | 25.9 | 26.2 | 26.2 | 26.1 | 26.2 | 26.0 | 26.0 | |
| Mean Temp. (°C) | 25.0 | 26.1 | 27.3 | 27.5 | 28.4 | 29.0 | 28.9 | 28.7 | 28.6 | 28.9 | 29.2 | 29.0 | 29.4 | 29.6 | 29.3 | 29.2 | 29.2 | 29.1 | 29.1 | 28.9 | 29.1 | |
| RHmax (%) | 89.9 | 89.2 | 89.6 | 90.3 | 91.3 | 91.4 | 91.4 | 91.7 | 92.3 | 92.8 | 92.9 | 93.5 | 93.8 | 94.0 | 94.5 | 94.4 | 94.7 | 94.7 | 84.1 | 84.5 | 94.3 | |
| RHMin (%) | 35.5 | 35.9 | 38.9 | 44.5 | 45.9 | 47.1 | 52.0 | 55.1 | 56.7 | 58.6 | 60.4 | 63.5 | 65.0 | 66.7 | 69.9 | 71.5 | 72.9 | 73.5 | 73.1 | 73.5 | 71.1 | |
| RHmean (%) | 62.7 | 62.5 | 64.3 | 67.4 | 68.6 | 69.2 | 71.7 | 73.4 | 74.5 | 75.7 | 76.7 | 78.5 | 79.4 | 80.3 | 82.2 | 83.0 | 83.8 | 84.1 | 83.6 | 84.0 | 82.7 | |
| SShr (hrs) | 55.0 | 58.0 | 55.5 | 52.5 | 53.5 | 54.0 | 55.0 | 54.5 | 51.5 | 48.0 | 48.0 | 42.5 | 42.0 | 38.5 | 31.0 | 26.0 | 26.0 | 27.0 | 27.5 | 28.5 | 32.0 | |
| WD (deg) | 230 | 223 | 206 | 188 | 181 | 175 | 167 | 156 | 159 | 164 | 156 | 155 | 157 | 161 | 157 | 157 | 158 | 162 | 157 | 161 | 159 | |
| WS(Km/hr) | 5.4 | 5.7 | 6.2 | 6.5 | 6.5 | 6.6 | 6.6 | 6.7 | 6.8 | 6.5 | 6.4 | 6.1 | 5.8 | 5.6 | 6.3 | 6.5 | 6.5 | 5.8 | 5.9 | 6.1 | 5.9 | |
| |  | | | |  | | | |  | | | |  | | | | | | | | | |
| Stage | Spouting & Seedling | | | | vegetative growth | | | | Flowering & fruiting | | | | Harvesting | | | | | | | | | |
| Favorable environment | Day temperature 20-28° C, Night Temperature 18-23° C (different in Varieties to varieties) | | | | | | | | | | | | | | | | | | | | | |
| Temperature | | | | | | | | | | | | | | | | | | | | | | |
| Relative Humidity | 50-80% | | | | | | | | | | | | | | | | | | | | | |
| Soil Temperature | 22-25° C | | | | | | | | | | | | | | | | | | | | | |
| Sunshine Hour | 8 to 10 hr | | | | | | | | | | | | | | | | | | | | | |
| Favorable conditions for insects and diseases | | | | | | | | | | | | | | | | | | | | | | |
| Fruit fly | Temperature: 25-30° C, RH: 60-91% | | | | | | | | | | | | | | | | | | | | | |
| Aphid | Temperature: 22-30° C, RH:60-85% | | | | | | | | | | | | | | | | | | | | | |
| Pumpkin beetle | Temperature: 25-32° C, RH: 65-80% | | | | | | | | | | | | | | | | | | | | | |
| Powdery mildew | Temperature: 22-27° C, RH: Lower RH during day with higher RH during night | | | | | | | | | | | | | | | | | | | | | |
| Downy mildew | Temperature: 25-32° C, RH: 75-95% | | | | | | | | | | | | | | | | | | | | | |
| Wilting | Temperature: 22-27° C (Atmosphere), >24° C (Soil) RH: 70-80% (Soil) | | | | | | | | | | | | | | | | | | | | | |
| Damping off | Temperature: 25-27° C, RH:70-80% (soil) | | | | | | | | | | | | | | | | | | | | | |
| Anthraxnose | Temperature: 25-32° C, RH: High (89-85%), Higher infestation with continuous rainfall | | | | | | | | | | | | | | | | | | | | | |
| Weather warning | | | | | | | | | | | | | | | | | | | | | | |
| Rainfall (mm) | Early rainfall (10-15 mm) | | | | | | | | | | ≥ 40 mm | | | | | | | | | | | |
| Cloudy weather | মেঘাচ্ছন্ন অবস্থা | | | | | | | | | | | | | | | | | | | | | |
| Drought | Drought due to excessive dry and warm weather | | | | | | | | | | | | | | | | | | | | | |
| Duration of staying wet | 2 to 5 days | | | | | | | | | | | | | | | | | | | | | |
| Hailstorm | Early rainfall with hailstorms | | | | | | | | | | | | | | | | | | | | | |
| Windspread (Km/hr.) | ≥ 40 Km/hr | | | | | | | | | | | | | | | | | | | | | |
| Temperature (°C) | 35 to 37° C | | | | | | | | | | | | | | | | | | | | | |