

3rd of Tishrei 5786
25 September 2025

Rain Event of September 24 to 25, 2025

A brief yet extreme precipitation event impacted our region over the last 24 hours. In the Nahariya area, over 130 mm of rain was recorded, which sharply shattered the daily rainfall record for the month of September; the monthly record was also broken. A significant portion of the precipitation occurred in under two hours, resulting in extreme rainfall intensities that set new records for durations of one hour and longer. Substantial amounts of rain were also registered in other parts of northern Israel, including inland areas such as the Golan Heights, the Eastern Galilee, and the Gilboa region.

Rainfall Amounts

An upper-level low in the middle layers of the atmosphere, accompanied by a deep surface trough, induced the formation of cloud cover over our region, which continued to develop throughout the morning, primarily in northern Israel. The greatest amounts of precipitation were measured in the Nahariya area, at the station in Kibbutz Regba, south of Nahariya, a total of 143 mm was recorded. In the adjacent locations of Evron and Shavei Tzion, 135 mm and 132 mm were observed (respectively), and Nahariya itself received 118 mm. Elsewhere, 87 mm was measured in Acre, 65 mm in Afek, 45 mm in Sha'ar HaAmakim, 41 mm in Kfar Hasidim, 32 to 33 mm in Ma'ale Gilboa and Neve Ya'ar, and approximately 20 mm in Harashim. Double-digit totals (10 to 20 mm) were registered at numerous stations across northern Israel, including in inland areas (Bnei Yehuda 23 mm, Poria 11 mm), which is uncharacteristic for September, when precipitation typically occurs in regions proximate to the coast.

In central Israel, rainfall amounts were significantly lower, the central coastal plain and the Shephelah experienced 1 to 4 mm of precipitation, with some stations recording no rainfall whatsoever. Approximately 1 mm of rain was observed in the Jerusalem area, while no precipitation occurred further south. The rainfall amounts for a number of stations are presented in the table below.

Exceptional Nature of the Rainfall Amounts

The precipitation totals observed in the Nahariya region are highly anomalous for the month of September. They shatter by a considerable margin the previous daily record for this month of 96 mm, which was registered in the Gush Etzion area in September 1932. The recorded rainfall amounts also establish new records on a monthly basis, this constitutes the highest monthly rainfall total for September since measurements began.

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Rainfall Intensities

The substantial precipitation in the Nahariya region occurred within a 3 to 4-hour period, with the majority of it (over 100 mm) being deposited in under two hours. Nearly 100 mm of rain was recorded over a ninety-minute interval, while more than 70 mm was registered within a single hour. These rainfall intensities are extreme, corresponding to an average return period of 100 years or more. In contrast, for shorter durations (less than 30 minutes), no new records were established. It is noteworthy that high-intensity rainfall events in September are typically of short duration, whereas sustained high intensities for periods of an hour or longer are more characteristic of the winter months.

**Table 1: Rainfall amounts at several stations on September 24-25, 2025
(until the afternoon hours)**

Station	Rainfall Amount (mm)	Station	Rainfall Amount (mm)	Station	Rainfall Amount (mm)
Shavei Tzion	132	Hakfar Hayarok	0	Mugeible	31
Evron	135	Bet Dagan	0	Newe Ya'ar	32
Nahariyya	119	Negba	0	Merhaviya	16
Regba	143	Merom Golan Picman	0	Poria	11
Acre	88	Bnei Yehuda	23	Kefar Blum	0
Kfar Hasidim	42	Avne Eitan	16	Zemah	0.2
Afek	65	Zefat Har Kenaan	2	Jerusalem	0.1
Haifa Technion	10	Harashim	20	Beit Jamal	0.3
Zichron Yaakov	2	Ma'ale Gilboa	33	Beer Sheva	0