

Supplementary Table (1): Physical and Chemical Properties of the Field Soil.

	Physical and chemical properties	Location of the soil of Bashiqa
1	Clay %	37.50 %
2	Silt %	24.65 %
3	Sand %	37.70 %
4	Soil Texture	Silty Clay
5	Organic Matter %	2.6 %
6	N (PPM)	2.7
7	K (PPM)	28
8	P (PPM)	10.60
9	EC (us/cm)	1400
10	PH	8.5

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Supplementary Table (2) Rainfall amounts and temperatures during the agricultural season 2023/2024 in the Bashiqa location

	Month	Rainfall amount (mm)	Min. Temperatures (c°)	Max. Temperatures (c°)
1	November	66	12.39	21.53
2	December	51.5	6.5	14.96
3	January	90.5	7.1	15.93
4	February	87	8.62	20.43
5	March	130	17.07	30.76
6	April	58	18.97	32.04
7	May	84.5	29.87	43.65

Nineveh Agriculture Directorate / Planning Department