Parameters	Unit	Mahidasht	Kermanshah
Latitude	° N	34.13	34.33
Longitude	°E	46.43	47.10
Elevation	m	1365	1323
Mean annual temperature	°C	13.9	15.6
Annual precipitation	mm	390	410

Table S1. Geographical location of the research fields and their average annual rainfall and temperature

Supplementary tables to the article "Assessment of DSSAT and AquaCrop models to simulate soybean and maize yield under water stress conditions", by Ali Dehghan Moroozeh, Bahman Farhadi Bansouleh, Mokhtar Ghobadi and Abdoreza Ahmadpour. Spanish Journal of Agricultural Research, Vol. 21, No. 3, 2023 (https://doi.org/10.5424/sjar/2023213-19918)

Place,	Weather	Maximum	Minimum	Sunshine	Wind	Precipitation	Relative
year	parameter	temperature	temperature	hours	speed	(mm)	humidity
		(°C)	(°C)	(h)	(m/s)		(%)
Mahidasht,	May	30.4	11.7	8.7	3.5	41	40.7
2011	June	37.0	15.7	10.1	4.1	0	23.7
	July	39.2	17.8	10.7	3.7	0	18.0
	Aug.	36.1	15.3	10.8	3.7	0	21.0
	Sep.	30.3	10.5	9.7	4.0	0	25.0
Kermanshah,	May	27.3	9.4	7.3	3.1	18	41.2
2012	June	38.8	8.9	7.6	3.3	0	24
	July	40.6	10.0	7.8	3.1	0	21
	Aug.	41.9	14.9	10.3	3.4	0	17
	Sep.	40.2	10.1	8.8	3.6	0	16
Kermanshah,	May	32.0	6.7	8.3	0.9	0	22.9
2015	June	35.0	13.0	9.7	1.4	0	19.6
	July	38.3	17.0	10.2	1.2	0	18.9
	Aug.	39.1	17.1	9.9	1.1	0	17.2
	Sep.	35.0	14.1	10.3	1.1	0	22.1

Table S2. Average monthly weather parameters during the implementation of research projects

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Research farm	Soil depth (cm)	Soil	Volumetric soil moisture (%) at			
		texture	Saturnation.	Field	Permanent	
			Saturation	capacity	wilting point	
Razi University	0-30	Clay Loam	48.4	34.7	20.1	
(Kermanshah)	30-60	Clay Loam	48.7	37.4	22.6	
	60-90	Clay	47.9	39.2	25.2	
Agricultural	0-30	Sandy Clay	50.0	34.0	22.0	
Organization	30-60	Sandy Clay	51.0	34.0	22.0	
(Mahidasht)	60-90	Sandy Clay	50.0	34.0	23.0	

Table S3. Soil physical characteristics of the research farms

Supplementary tables to the article "Assessment of DSSAT and AquaCrop models to simulate soybean and maize yield under water stress conditions", by Ali Dehghan Moroozeh, Bahman Farhadi Bansouleh, Mokhtar Ghobadi and Abdoreza Ahmadpour. Spanish Journal of Agricultural Research, Vol. 21, No. 3, 2023 (https://doi.org/10.5424/sjar/2023213-19918)