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Supplementary Data

Agro-morphological variability in durum wheat landraces of Morocco

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Supplementary Table S1. Details of the durum wheat varieties included in the study (Nsarellah et al., 2005).

Serial number	Accession number	Variety (Code)	Year of release	Adaptation
		Old varieties of durum wheat		
1	MGB 2981	Zeramek (1658)	1949	North mountain
2	MGB 5995	Selbera (272)	1949	North mountain
3	MGB 3078	Kyperounda (2777)	1956	North mountain Favorable rainfed
4	MGB 3193	Haj Mouline	1974	Favorable rainfed
5	MGB 3125	Jori	1976	North, large
		Recent varieties of durum wheat		
6	MGB 24	Marzak (E II 12)	1984	Large
7	MGB 44430	Acsad 65	1984	Semi arid
8	MGB 3225	Karim	1985	Large, irrigated
9	MGB 35	Belbachir	1987	Large, irrigated
10	MGB 3227	Sebou (1715)	1987	Large, semi arid
11	MGB 21	Oum Rabia (1718)	1988	Large, semi arid
12	MGB 3228	Sarif (1726)	1988	Large
13	MGB 30	Tensift (1727)	1988	Large
14	MGB 3229	Massa (1728)	1988	Large, favorable rainfed, medium altitudes
15	MGB 3230	Isly (E 15)	1988	Large
16	MGB 3231	Anouar (1749)	1993	Large
17	MGB 3232	Jawhar (1750)	1993	Large, irrigated
18	MGB 3233	Yasmine (1751)	1993	Large
19	MGB 3234	Amjad (1767)	1995	Large
20	MGB 34	Tarek (1768)	1995	Large
21	MGB 3235	Ouregh (1769)	1995	Large
22	MGB 31	Marjana (1771)	1996	Large
23	MGB 33	Tomouh (Inra 1785)	1997	Large, north, medium altitudes, arid

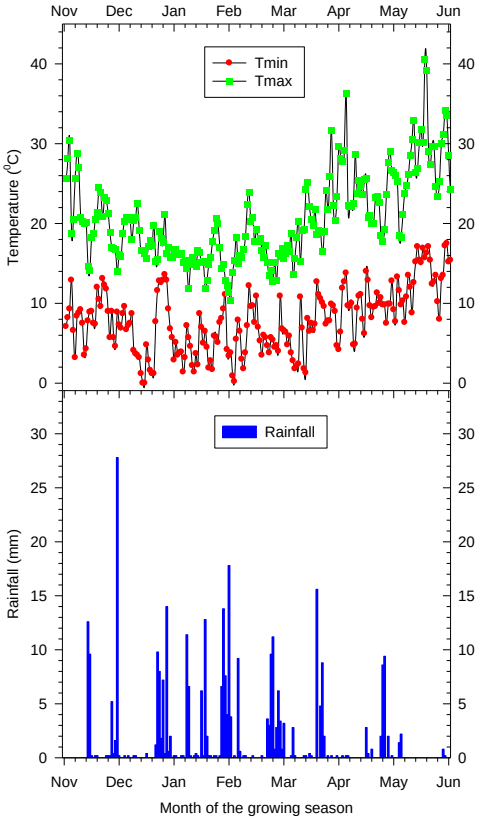
Supplementary Table S2. Description and adopted score levels of the spike characters recorded on the durum wheat collection; A: score levels for spike shape and spike density. B: description of spike types.

A

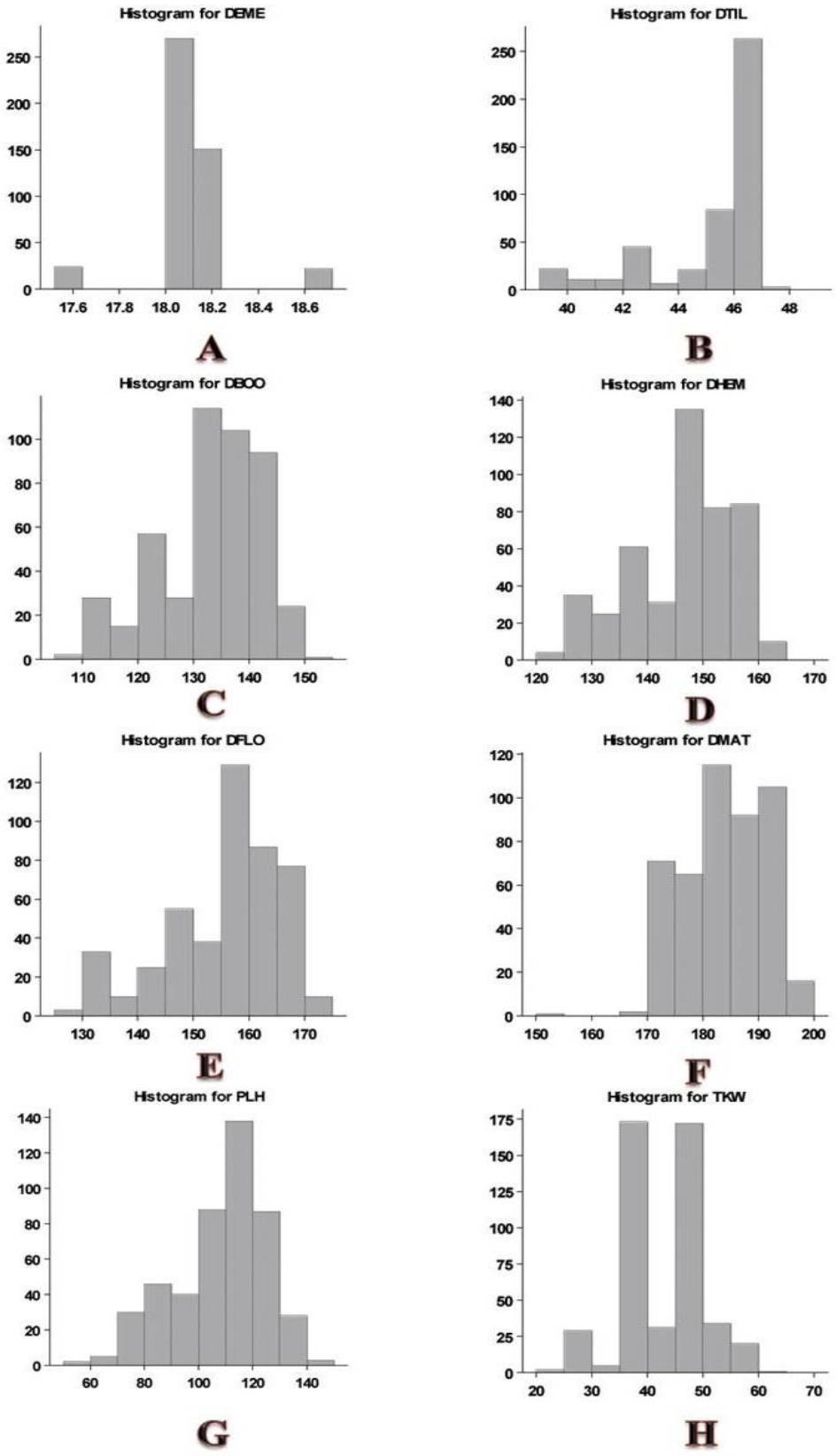
Character	Abbreviation	Score description
Spike shape	SPSH	1: Tapering (pyramidal); 2: Oblong (parallel sides); 3: Fusi-form, 4: Clavate, 5: Unknown
Spike density	SPDE	1 : Very lax ; 3 : Lax ; 5 : Intermediate ; 7 : Dense ; 9 :Very dense; 10 : Unknown

B

Spike types	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Shape :								
Pyramidal (Tapering)	√	√		√			√	
Parallel sides (Oblong)						√		
Fusi-form			√					√
Clavate					√			
Side view :								
Narrow						√		
Medium			√	√	√		√	√
Large	√							
Very large		√						
Spike cross section :								
Slightly flattened				√				
Flat cross section	√					√		
Very flat cross section		√						
Square cross section			√		√		√	√
Size :								
Short								√
Medium	√						√	
Long	√	√		√	√			
Longer			√			√		
Color:								
White	√		√		√	√	√	√
Colourful		√		√				
Hairiness :								
Hairless	√					√	√	
Slightly hairy		√	√	√			√	√
Hairy					√			
Density :								
Lax				√				
Intermediate			√			√		√
Dense					√		√	
Very dense	√	√						



Supplementary Fig. S1 Rainfall, minimum and maximum temperature during 2005-2006 growing season at Sidi El Aidi experimental station.



Supplementary Fig. S2 Frequency distribution of the agro-morphological traits in the Moroccan durum wheat collections. a: for days to plant emergence; b: for days to tillering; c: for days to booting; d: for days to head emergence; e: for days to flowering; f: for days to physiological maturity; g: for plant height, and h: for thousands kernel weight.

Supplementary Fig. S3 Spike types (1 to 8) found in the Moroccan durum wheat collection. The explanation for the individual spike types are presented in Supplementary Table S2.