

Table S1. Type and origin of the 294 durum wheat accessions used in the experiment

Accession No.	Type	Origin	IG Origin
1	LAND	Morocco	MAR P35
2	LAND	Morocco	MAR P46
3	LAND	Morocco	MAR P81
4	LAND	Morocco	MAR P109
5	LAND	Morocco	MAR P110
6	LAND	Morocco	MAR P 112
7	LAND	Morocco	MAR P 113
8	LAND	Morocco	MAR P114
9	LAND	Morocco	MAR P115
10	LAND	Morocco	MAR P3/2
11	LAND	Morocco	MAR P5/3
12	LAND	Morocco	MAT P5/14
13	LAND	Morocco	MAT P5/16
14	LAND	Morocco	MAT P5/20
15	LAND	Morocco	MAT P5/22
16	LAND	Morocco	MAT P5/23
17	LAND	Morocco	MAT P8/9
18	LAND	Morocco	MAT P10/10
19	LAND	Morocco	MAT P10/32
20	LAND	Morocco	MAT P10/34
21	LAND	Morocco	MAT P10/46
22	LAND	Morocco	MAT P10/49
23	LAND	Morocco	MAT P105/14
24	LAND	Morocco	MAT P105/19
25	LAND	Morocco	Mrb 5
26	LAND	Morocco	IG98721
27	LAND	Morocco	Atsiki-3
28	LAND	Morocco	Menceki
29	LAND	Morocco	Korifla
30	LAND	Morocco	IG 95638
31	LAND	Morocco	Gidara-2
32	LAND	Morocco	MAR P7
33	LAND	Morocco	MAR P117
34	LAND	Libya	IG 43905
35	LAND	Egypte	IG 83078
36	LAND	Algeria	IG 93811
37	LAND	Tunisia	IG 94062
38	LAND	Tunisia	IG 94817
39	LAND	Syria	IG 95842
40	LAND	Syria	IG 95872
41	LAND	Jordan	IG 96186
42	LAND	Algeria	IG 97385

43	LAND	Egypte	IG 98022
44	LAND	Egypte	IG 98028
45	LAND	Libya	IG 98135
46	LAND	Libya	IG 98725
47	LAND	Jordan	IG 115812
48	LAND	Palestine	IG 127163
49	LAND	Palestine	IG 127178
50	MV	Morocco	Cocorit
51	MV	Morocco	Oued Zenati
52	MV	Morocco	2777
53	MV	Morocco	Jori
54	MV	Morocco	Marzak
55	MV	Morocco	Karim
56	MV	Morocco	Acsad 65
57	MV	Morocco	Bel bachir
58	MV	Morocco	Oum Rabiaa
59	MV	Morocco	Sarif
60	MV	Morocco	Sebou
61	MV	Morocco	Anouar
62	MV	Morocco	Amjad
63	MV	Morocco	Marjana
64	MV	Morocco	Jawhar
65	MV	Morocco	Tomouh
66	MV	Morocco	Razak
67	MV	Morocco	Nassira
68	MV	Morocco	Chaoui
69	MV	Morocco	Marwan
70	MV	Morocco	Amria
71	MV	Morocco	Unidentified
72	MV	Morocco	Unidentified
73	IAL	CIMMYT	40 IDYN 05
74	IAL	CIMMYT	40 IDYN 06
75	IAL	CIMMYT	40 IDYN 09
76	IAL	CIMMYT	40 IDYN 24
77	IAL	CIMMYT	40 IDYN 35
78	IAL	CIMMYT	40 IDYN 41
79	IAL	CIMMYT	40 IDSN 27
80	IAL	CIMMYT	40 IDSN 32
81	IAL	CIMMYT	40 IDSN 36
82	IAL	CIMMYT	40 IDSN 42
83	IAL	CIMMYT	40 IDSN 47
84	IAL	CIMMYT	40 IDSN 48
85	IAL	CIMMYT	40 IDSN 49
86	IAL	CIMMYT	40 IDSN 78

87	IAL	CIMMYT	40 IDSN 83
88	IAL	CIMMYT	40 IDSN 91
89	IAL	CIMMYT	40 IDSN 98
90	IAL	CIMMYT	40 IDSN 99
91	IAL	CIMMYT	40 IDSN 107
92	IAL	CIMMYT	40 IDSN 115
93	IAL	CIMMYT	40 IDSN 140
94	IAL	CIMMYT	29 IDSN 47
95	IAL	CIMMYT	29 IDSN 81
96	IAL	CIMMYT	37 IDSN 83
97	IAL	CIMMYT	37 IDSN 101
98	IAL	CIMMYT	37 IDSN 96
99	IAL	CIMMYT	Unidentified
100	IAL	CIMMYT	Unidentified
101	IAL	CIMMYT	37 IDSN 31
102	IAL	CIMMYT	36 IDSN 29
103	IAL	CIMMYT	36 IDSN 66
104	IAL	CIMMYT	36 IDSN 128
105	IAL	CIMMYT	37 EDUYT 36
106	IAL	CIMMYT	37 EDUYT 37
107	IAL	CIMMYT	37 EDUYT 67
108	IAL	CIMMYT	37 EDUYT 123
109	IAL	CIMMYT	37 IDYN 07
110	IAL	CIMMYT	37 IDYN 09
111	IAL	CIMMYT	37 IDYN 36
112	IAL	CIMMYT	37 IDYN 38
113	IAL	CIMMYT	37 EDUYT 01
114	IAL	CIMMYT	37 IDYN 50
115	IAL	CIMMYT	39 IDYN 05
116	IAL	CIMMYT	39 IDYN 06
117	IAL	CIMMYT	39 IDYN 08
118	IAL	CIMMYT	39 IDYN 10
119	IAL	CIMMYT	39 IDYN 11
120	IAL	CIMMYT	39 IDYN 12
121	IAL	CIMMYT	39 IDYN 16
122	IAL	CIMMYT	39 IDYN 17
123	IAL	CIMMYT	39 IDYN 18
124	IAL	CIMMYT	39 IDYN 20
125	IAL	CIMMYT	39 IDYN 23
126	IAL	CIMMYT	39 IDYN 26
127	IAL	CIMMYT	39 IDYN 28
128	IAL	CIMMYT	39 IDYN 32
129	IAL	CIMMYT	39 IDYN 33
130	IAL	CIMMYT	39 IDYN 35

131	IAL	CIMMYT	39 IDYN 36
132	IAL	CIMMYT	39 IDYN 37
133	IAL	CIMMYT	39 IDYN 41
134	IAL	CIMMYT	39 IDYN 45
135	IAL	CIMMYT	39 IDSN 56
136	IAL	CIMMYT	39 IDSN 60
137	IAL	CIMMYT	38 IDSN 61
138	IAL	CIMMYT	38 IDSN 78
139	IAL	CIMMYT	38 IDSN 80
140	IAL	CIMMYT	38 IDSN 83
141	IAL	CIMMYT	38 IDSN 88
142	IAL	CIMMYT	38 IDSN 89
143	IAL	CIMMYT	38 IDSN 92
144	IAL	CIMMYT	38 IDSN 101
145	IAL	CIMMYT	38 IDSN 117
146	IAL	CIMMYT	38 IDSN 205
147	IAL	CIMMYT	40 IDYN 03
148	IAL	CIMMYT	40 IDYN 07
149	IAL	CIMMYT	40 IDYN 08
150	IAL	CIMMYT	40 IDYN 10
151	IAL	CIMMYT	40 IDYN 11
152	IAL	CIMMYT	40 IDYN 13
153	IAL	CIMMYT	40 IDYN 14
154	IAL	CIMMYT	40 IDYN 15
155	IAL	CIMMYT	40 IDYN 16
156	IAL	CIMMYT	40 IDYN 17
157	IAL	CIMMYT	40 IDYN 20
158	IAL	CIMMYT	40 IDYN 22
159	IAL	CIMMYT	40 IDYN 25
160	IAL	CIMMYT	40 IDYN 27
161	IAL	CIMMYT	40 IDYN 30
162	IAL	CIMMYT	40 IDYN 31
163	IAL	CIMMYT	40 IDYN 32
164	IAL	CIMMYT	40 IDYN 33
165	IAL	CIMMYT	40 IDYN 36
166	IAL	CIMMYT	40 IDYN 43
167	IAL	CIMMYT	40 IDYN 44
168	IAL	CIMMYT	40 IDYN 49
169	IAL	CIMMYT	39 EDUYT 02
170	IAL	CIMMYT	39 EDUYT 03
171	IAL	CIMMYT	39 EDUYT 06
172	IAL	CIMMYT	39 EDUYT 08
173	IAL	CIMMYT	39 EDUYT 17
174	IAL	CIMMYT	39 EDUYT 19

175	IAL	CIMMYT	39 EDUYT 20
176	IAL	CIMMYT	39 EDUYT 21
177	IAL	CIMMYT	39 EDUYT 23
178	IAL	CIMMYT	39 EDUYT 26
179	IAL	CIMMYT	39 EDUYT 27
180	IAL	CIMMYT	39 EDUYT 28
181	IAL	CIMMYT	39 EDUYT 34
182	IAL	CIMMYT	39 EDUYT 35
183	IAL	CIMMYT	39 EDUYT 39
184	IAL	CIMMYT	39 EDUYT 43
185	IAL	CIMMYT	39 EDUYT 53
186	IAL	CIMMYT	39 EDUYT 73
187	IAL	CIMMYT	39 EDUYT 79
188	IAL	CIMMYT	39 EDUYT 85
189	IAL	CIMMYT	39 EDUYT 87
190	IAL	CIMMYT	39 EDUYT 92
191	IAL	CIMMYT	39 EDUYT 99
192	IAL	CIMMYT	39 EDUYT 101
193	IAL	CIMMYT	39 EDUYT 104
194	IAL	CIMMYT	39 EDUYT 108
195	IAL	CIMMYT	39 EDUYT 109
196	IAL	CIMMYT	39 EDUYT 111
197	IAL	CIMMYT	39 EDUYT 112
198	IAL	CIMMYT	39 EDUYT 114
199	IAL	CIMMYT	39 EDUYT 127
200	IAL	ICARDA	Unidentified
201	IAL	ICARDA	Unidentified
202	IAL	ICARDA	Unidentified
203	IAL	ICARDA	29 IDON 153
204	IAL	ICARDA	29 IDON 87
205	IAL	ICARDA	Unidentified
206	IAL	ICARDA	29 IDON 94
207	IAL	ICARDA	29 IDON 95
208	IAL	ICARDA	29 IDON 32
209	IAL	ICARDA	29 IDON 69
210	IAL	ICARDA	29 IDON 107
211	IAL	ICARDA	29 IDON 109
212	IAL	ICARDA	29 IDON 111
213	IAL	ICARDA	29 IDON 129
214	IAL	ICARDA	29 IDON 137
215	IAL	ICARDA	Unidentified
216	IAL	ICARDA	Unidentified
217	IAL	ICARDA	28 IDON 37
218	IAL	ICARDA	28 IDON 105

219	IAL	ICARDA	28 IDON 217
220	IAL	ICARDA	29 IDYT 05
221	IAL	ICARDA	29 IDYT 09
222	IAL	ICARDA	29 IDYT 22
223	IAL	ICARDA	29 IDON 02
224	IAL	ICARDA	29 IDON 03
225	IAL	ICARDA	29 IDON 04
226	IAL	ICARDA	30 IDON 5
227	IAL	ICARDA	30 IDON 45
228	IAL	ICARDA	30 IDON 52
229	IAL	ICARDA	30 IDON 109
230	IAL	ICARDA	30 IDON 121
231	IAL	ICARDA	30 IDON 125
232	IAL	ICARDA	30 IDON 126
233	IAL	ICARDA	30 IDON 142
234	IAL	ICARDA	30 IDON 209
235	IAL	ICARDA	30 IDON 249
236	IAL	ICARDA	30 IDON 251
237	IAL	ICARDA	30 IDON 253
238	IAL	ICARDA	31 IDON 14
239	IAL	ICARDA	31 IDON 21
240	IAL	ICARDA	31 IDON 22
241	IAL	ICARDA	31 IDON 24
242	IAL	ICARDA	31 IDON 27
243	IAL	ICARDA	31 IDON 69
244	IAL	ICARDA	31 IDON 81
245	IAL	ICARDA	31 IDON 82
246	IAL	ICARDA	31 IDON 85
247	IAL	ICARDA	31 IDON 86
248	IAL	ICARDA	31 IDON 87
249	IAL	ICARDA	31 IDON 91
250	IAL	ICARDA	31 IDON 96
251	IAL	ICARDA	31 IDON 100
252	IAL	ICARDA	31 IDON 139
253	IAL	ICARDA	31 IDON 144
254	IAL	ICARDA	31 IDON 153
255	IAL	ICARDA	31 IDON 154
256	IAL	ICARDA	31 IDON 165
257	IAL	ICARDA	31 IDON 166
258	IAL	ICARDA	31 IDON 195
259	IAL	ICARDA	31 IDON 196
260	IAL	ICARDA	31 IDON 198
261	IAL	ICARDA	31 IDON 202
262	IAL	ICARDA	31 IDON 205

263	IAL	ICARDA	31 IDON 207
264	IAL	ICARDA	31 IDON 209
265	IAL	ICARDA	31 IDON 214
266	IAL	ICARDA	31 IDON 216
267	IAL	ICARDA	31 IDON 224
268	IAL	ICARDA	31 IDON 225
269	IAL	ICARDA	31 IDON 238
270	IAL	ICARDA	31 IDON 14
271	IAL	ICARDA	31 IDON 15
272	IAL	ICARDA	31 IDON 32
273	IAL	ICARDA	31 IDON 40
274	IAL	ICARDA	31 IDON 43
275	IAL	ICARDA	31 IDON 46
276	IAL	ICARDA	31 IDON 56
277	IAL	ICARDA	31 IDON 77
278	IAL	ICARDA	31 IDON 86
279	IAL	ICARDA	31 IDON 98
280	IAL	ICARDA	31 IDON 101
281	IAL	ICARDA	31 IDON 102
282	IAL	ICARDA	31 IDON 103
283	IAL	ICARDA	31 IDON 105
284	IAL	ICARDA	31 IDON 116
285	IAL	ICARDA	31 IDON 122
286	IAL	ICARDA	31 IDON 126
287	IAL	ICARDA	31 IDON 130
288	IAL	ICARDA	31 IDON 131
289	IAL	ICARDA	31 IDON 132
290	IAL	ICARDA	31 IDON 133
291	IAL	ICARDA	31 IDON 146
292	IAL	ICARDA	31 IDON 152
293	IAL	ICARDA	31 IDON 153
294	IAL	ICARDA	31 IDON 200

CIMMYT: International Maize and Wheat Improvement Center; ICARDA: Agricultural Research in the Dry Areas, EDUYT: Elite Durum Yield Trial, IAL: International Advanced Lines, IDON: International Durum Observation Nursery, IDYN: International Durum Yield Nursery, IDSN, International Durum Screening Nursery, LAND: landraces, MV: Moroccan variety. The Moroccan landraces number from 1 to 25 are collected from different sites in Morocco and stocked at the National Institute in Morocco in Rabat. The advanced lines Mediterranean landraces are available at ICARDA genebank.