

Table S1. Names, pedigrees, selection histories and accession numbers for 87 elite lines of bread wheat from the spring wheat breeding programme at ICARDA.

Serial No	Name Pedigree	Selection history	Seed source	Plot No
1	Cham-8 (Kauz) Jup/Bjy/Ures	CM67458	BIG INC 2010	88
2	Zafir-3 Cham-4/Shuha's/3/Sd 8036	ICW98-0015-5AP-0APS-030AP-4AP-4AP-0AP	BIG INC 2010	89
3	Tabeldi-1 Bush/Amigo T101 X Sakha 69//Shuha-5/3/Bocro-3	ICW00-0797-3AP-0AP-0AP-15AP-0AP	BIG INC 2010	90
4	Soonot-10 Samar-8/Kauz's//Cham-4/Shuha's	ICW01-21144-4AP-5AP-0AP-0AP-5AP-0AP	BIG INC 2010	91
5	----	ICW02-00295-22AP/0TS-0AP-030AP-3KUL-030KUL-0AP/0KUL-0DZ/0AP	BIG INC 2010	92
6	----	ICW02-00330-4AP/0TS-0AP-030AP-1KUL-030KUL-0AP/0KUL-0DZ/0AP	BIG INC 2010	93
7	Hamam-4 T.Aest/Sprw's//Ca8055/3/Bacanora86	ICW92-0477-1AP-1AP-4AP-1AP-0AP	BIG INC 2010	94
8	----	ICW02-00354-9AP/0TS-0AP-0AP-17AP-030KUL-0AP/0KUL-0DZ/0AP	BIG INC 2010	95
9	----	ICW02-00423-10AP/0TS-0AP-0AP-16AP-0AP	BIG INC 2010	96
10	----	ICW02-00431-3AP/0TS-0AP-0AP-19AP-030KUL-0AP/0KUL-0DZ/0AP	BIG INC 2010	97
11	Babaga-3 Bow #1/Fengkang 15/3/Hys//Drc*2/7c	ICW93-0065-2AP-0L-2AP-0L-0AP	BIG INC 2010	98
12	Cham-6 W3918a/Jup	CM39992-8M-7Y-0M-0AP	BIG INC 2010	99
13	Ruth-1 F5 Derived Kenya (D.H) F2	(F2 KENYA D.H #100)-0APS-030AP-1AP-1AP-0AP	BIG INC 2010	100
14	Jawahir-14 Shuha-4//Ns732/Her	ICW97-0410-4AP-0APS-0AP-4AP-12AP-2AP-0AP	BIG INC 2010	101
15	Nayzak-3 Tevee's//Kauz's/3/Fow's//Ns732/Her	ICW98-0026-5AP-0APS-030AP-15AP-4AP-0AP	BIG INC 2010	102
16	Durra-8 Fow's//Ns732/Her/3/Cham-6//Ghurab's	ICW98-0035-5AP-0APS-030AP-7AP-5AP-0AP	BIG INC 2010	103
17	Laloub-2 Turaco/Chil/6/Seri 82/5/Ald's/4/Bb/Gll//Cno67/7c/3/Kvz/Ti	ICW99-0052-2AP-0AP-0AP-16AP-0AP	BIG INC 2010	104
18	Sanobar-6	ICW00-0577-7AP-0AP-0AP-5AP-0AP	BIG INC 2010	105

(Continued)

Table S1. (Continued).

Serial No	Name Pedigree	Selection history	Seed source	Plot No
	Sha3/Seri//Yang87-142/3/2* Towpe		2010	
19	Reyna-12 Cham-4/Shuha's/6/2*Saker/5/Rbs/Anza/3/Kvz/Hys//Ymh/Tob	ICW00-0634-3AP-0AP-0AP-39AP-0AP	BIG INC	106
20	Sale-6 Achtar*3//Kanz/Ks85-8-4/3/Zemamra-5	ICW01-00135-0AP-1AP-0AP-0AP-7AP-0AP	BIG INC	107
21	----	ICW01-21075-2AP-4AP-0AP/0TS-0AP-7AP-0AP	BIG INC	108
22	----	ICW01-21117-2AP-2AP-0AP-0AP-11AP-0AP	BIG INC	109
23	Neem-2 Fow-2/Sd8036//Safi-3/3/Ns732/Her//Kauz's Shuha-4/6/Gv/Ald's/5/Ald's/4/Bb/Gil//Cno67/7c/3/Kvz/Ti/7/Prh's/Vee's/3/ P106.19//Soty	ICW01-21142-2AP-12AP-0AP-0AP-11AP-0AP	BIG INC	110
24	Firdous-29 Giza-164/Yebroud-1//Booma-2	ICW01-21194-5AP-4AP-0AP/0TS-0AP-7AP-9AP-0AP	BIG INC	111
25	Jelmoud-1 Samar-12/Dollarbird	ICW97-0503-8AP-0APS-3AP-0APS-030AP-0AP	BIG INC	112
26	Saamid-2 Ghurab-2//Turaco/Chil	ICW98-0226-9AP-0APS-030AP-9AP-6AP-0AP	BIG INC	113
27	Koukab-2 Dverd-2/Ae.Squarrosa(214)//2*Esdai/3/Ns732/Her	ICW98-0241-7AP-0APS-030AP-7AP-1AP-0AP	BIG INC	114
28	Battell-3 Shuha's/Tamega//Bow#1/Fengkang15	ICW99-0180-2AP-0AP-0AP-2AP-0AP	BIG INC	115
29	Sandall-3 Clement/Ald's//Zarzur/5/Au//Kal/Bb/3/Bon/4/Kvz//Cno/Pj62	ICW99-0181-2AP-0AP-0AP-21AP-0AP	BIG INC	116
30	----	ICW99-0181-2AP-0AP-0AP-7AP-0AP	BIG INC	117
31	Samira-2 Shuha-8//Vee's/Saker's	ICW99-0387-23AP-0AP-0AP-35AP-0AP	BIG INC	118
32	Hashab-2 Blass-1/4/Chat's//Kvz/Cgn/3/Bau's	ICW00-0202-0AP-0AP-0AP-5AP-0AP	BIG INC	119
33	Sanobar-1 Sha3/Seri//Yang87-142/3/2* Towpe	ICW00-0577-5AP-0AP-0AP-20AP-0AP	BIG INC	120
34	Cham-10 Kauz//Kauz/Star	CMBW90M4994-0T0PY-13M-015Y-015M-4Y-0B-0AP	BIG INC	121
35	----	ICW88-0061-2AP-0L-5AP-0L-1AP-0TS-0AP	BIG INC	122

(Continued)

Table S1. (Continued).

Serial No	Name Pedigree	Selection history	Seed source	Plot No
	Icarda-Srrl-5		2010	
36	Reyna-25 Cham-4/Shuha's/6/2*Saker/5/Rbs/Anza/3/Kvz/Hys//Ymh/Tob	ICW00-0634-6AP-0AP-0AP-48AP-0AP	BIG INC 2010	123 124
37	Reyna-29 Cham-4/Shuha's/6/2*Saker/5/Rbs/Anza/3/Kvz/Hys//Ymh/Tob	ICW00-0634-6AP-0AP-0AP-8AP-0AP	BIG INC 2010	125
38	Temerind-8 Ns732/Her//Arrihane/3/Pgo/Seri//Bau	ICW00-0904-3AP-0AP-0AP-29AP-0AP-0AP	BIG INC 2010	126
39	Gonglase-4 Izaz-2//Tevee's/Shuha's	ICW01-00014-0AP-6AP-0AP-0AP-2AP-0AP	BIG INC 2010	127
40	Usher-18 Crow's/Bow's -1994/95//Asfoor-5	ICW01-00257-0AP-8AP-0AP/0TS-0AP-9AP-0AP	BIG INC 2010	128
41	---- Florkwa-2//Asfoor-5	ICW01-00340-0AP-9AP-0AP/0TS-0AP-16AP-0AP	BIG INC 2010	129
42	Settat-13 Ferroug-2/Potam*2ks811261-8//Zemamra-8	ICW01-21116-1AP-8AP-0AP-0AP-10AP-0AP	BIG INC 2010	130
43	Soonot-11 Samar-8/Kauz's//Cham-4/Shuha's	ICW01-21144-4AP-5AP-0AP-0AP-6AP-0AP	BIG INC 2010	131
44	---- Hubara-15/Zemamra-8	ICW02-00017-5AP/0TS-0AP-0AP-20AP-0AP	BIG INC 2010	132
45	---- Saba/Flag-1	ICW02-00301-21AP/0TS-0AP-030AP-3KUL-030KUL-0AP/0KUL-0DZ/0AP	BIG INC 2010	133
46	---- Bow #1/Fengkang 15/3/Hys//Drc*2/7c	ICW02-00431-3AP/0TS-0AP-0AP-20AP-030KUL-0AP/0KUL-0DZ/0AP	BIG INC 2010	134
47	Faisal-1 Mon's/Ald's//Towpe's	ICW89-0237-1AP-0L-3AP-0AP-0BR-3AP-0AP	BIG INC 2010	135
48	Bushraa-3 Pfau/Milan//Cham-4	ICW98-0248-1AP-0APS-030AP-17AP-4AP-0AP	BIG INC 2010	136
49	Nouha-3 Ns732/Her//Milan/Sha7	ICW99-0288-15AP-0AP-0AP-25AP-0AP	BIG INC 2010	137
50	---- Milan/Sha7//Potam*3ks811261-5	ICW00-0028-0AP-0AP-0AP-6AP-0AP	BIG INC 2010	138
51	Sidraa-1 Gv/Ald's/5/Ald's/4/Bb/G11//Cno67/7c/3/Kvz/Ti/6/2*Towpe	ICW00-0629-1AP-0AP-0AP-16AP-0AP	BIG INC 2010	139
52	Reyna-24 Cham-4/Shuha's/6/2*Saker/5/Rbs/Anza/3/Kvz/Hys//Ymh/Tob	ICW00-0634-6AP-0AP-0AP-47AP-0AP	BIG INC 2010	

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Table S1. (Continued).

Serial No	Name Pedigree	Selection history	Seed source	Plot No
53	---- Ns732/Her/Sd8036/3/Saada	ICW00-0903-2AP-0AP-0AP-35AP-0AP-0AP	BIG INC 2010	140
54	Jasmin-5 Sakha 73/5/las 58/4/Kal/Bb/Cj's/3/Ald's/6/Goumria-12	ICW01-00381-0AP-7AP-0AP/0TS-0AP-9AP-0AP	BIG INC 2010	141
55	Fanoos-14 Andalieb-5//Tevee-1/Shuha-6	ICW01-00521-0AP-5AP-0AP-0AP-2AP-0AP	BIG INC 2010	142
56	Loulou-16 Cbme4sa#4/Fow-2	ICW98-0047-1AP-0AP-0AP-8AP-5AP-1AP-0AP	S.U STORE	143
57	Qadanfer-5 Star's/Flor kwa-2	ICW97-0752-7AP-0AP-5AP-0AP-0AP-16AP-0AP	S.U STORE	144
58	Taleh-1 Tevee's/Kauz's//Attila-5/6/Gv/Ald's/5/Ald's/4/Bb/Gll/Cno67/7c/3/Kvz/Ti	ICW00-0626-5AP-0AP-0AP-16AP-0AP	BIG INC 2010	145
59	Nadia-13 Van's/3/Cndr's/Ana//Cndr's/Mus's/4/Tevee-5	ICW99-0384-5AP-0AP-0AP-7AP-0AP	BIG INC 2010	146
60	---- Crow's/Bow's -3-1994/95//Tevee's/Tadimia	ICW01-00260-0AP-6AP-0AP/0TS-0AP-8AP-1AP-0AP	AWYT-MR- TA 2010	147
61	---- Tevee's/3/T.Aest/Sprw's//Ca8055/4/Pastor-2/5/Sunbri	ICW02-20046-4AP/0TS-0AP-0AP-11AP-0AP	AWYT-MR- TA 2010	148
62	Tevee's/3/T.Aest/Sprw's//Ca8055/4/Pastor-2/5/Sunbri	ICW02-20046-4AP/0TS-0AP-0AP-27AP-0AP	AWYT-MR- TA 2010	149
63	---- Weebill-1/2*Qafzah-21	ICW02-20182-12AP/0TS-0AP-0AP-2AP-0AP	AWYT-MR- TA 2010	150
64	---- Rebwah-12/Zemamra-8	ICW01-00193-0AP-4AP-0AP-0AP-6AP-0AP	AWYT-LR- TA 2010	151
65	---- Qafzah-2/Ferroug-2	ICW01-00205-0AP-6AP-0AP-0AP-3AP-0AP	AWYT-LR- TA 2010	152
66	Haala-50 Mon's/Ald's//Aldan's/las58/3/Saf-1/4/Zemamra-1	ICW01-21120-6AP-9AP-0AP-0AP-9AP-0AP	AWYT-LR- TA 2010	153
67	---- Hamam-4/Angi-2	ICW02-00621-2AP/0TS-0AP-0AP-15AP-0AP	AWYT-LR- CA 2010	154
68	Sisaban-3	ICW00-0207-0AP-0AP-0AP-54AP-0AP	BIG INC 2010	155

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Table S1. (Continued).

Serial No	Name Pedigree	Selection history	Seed source	Plot No
	Shuha-5/Asfoor-1			
69	Manhal-4	ICW00-0789-2AP-0AP-0AP-13AP-0AP	BIG INC 2010	156
	Qafzah-5/2*Regrag-1			
70	Usher-16	ICW01-00257-0AP-8AP-0AP/0TS-0AP-12AP-0AP	BIG INC 2010	157
	Crow's/Bow's -1994/95//Asfoor-5			
71	Latifa-2	ICW01-00489-0AP-12AP-0AP-0AP-6AP-0AP	BIG INC 2010	158
	Psnis'/Bow's//Kauz's/3/Safi-1			
72	Naji-3	ICW01-21107-1AP-10AP-0AP/0TS-0AP-8AP-0AP	BIG INC 2010	159
	Cbrd/Kauz//Weebill 1/3/Atena-1			
73	Hijleej-1	ICW01-21114-3AP-3AP-0AP/0TS-0AP-20AP-0AP	BIG INC 2010	160
	Saker/5/Rbs/Anza/3/Kvz/Hys//Ymh/Tob/4/Bow's/6/Pewit 3/7/Atena-1			
74	Settat-45	ICW01-21116-2AP-3AP-0AP-9AP/MOR-0AP/MOR-0AP	BIG INC 2010	161
	Ferroug-2/Potam*2ks811261-8//Zemamra-8			
75	----	ICW00-0818-1AP-0AP-0AP-28AP/MOR-0AP/MOR-0AP	BIG INC 2010	162
	Nesma*2/14-2//2*Safi-3			
76	----	ICW00-0885-8AP-0AP-6AP/MOR-0AP/MOR-0AP	BIG INC 2010	163
	Ns732/Her*2//Saada			
77	----	ICW02-20073-12AP-0AP-0AP/MOR-0AP/MOR-0AP	BIG INC 2010	164
	Achtar*3//Kanz/Ks85-8-4/3/Lakta-8/4/Zemamra-1			
78	----	ICW99-0386-22AP-0AP-26AP/MOR-0AP/MOR-0AP	BIG INC 2010	165
	Shuha-8/Ducula			
79	----	ICW99-0386-22AP-0AP-54AP/MOR-0AP/MOR-0AP	BIG INC 2010	166
	Shuha-8/Ducula			
80	----	MOROCCO F2-17 00/01-19AP-0AP-52AP/MOR-0AP/MOR-0AP	BIG INC 2010	167
	Achtar/Inra 1764			

(Continued)

Table S1. (Continued).

Serial No	Name Pedigree	Selection history	Seed source	Plot No
81	---- Achtar/Inra 1764	MOROCCO F2-17 00/01-19AP-0AP-0AP-40AP/MOR-0AP/MOR-0AP	BIG INC 09	168
82	---- Eswyt99#18/Arrihane	MOROCCO F2-23 00/01-49AP-0AP-0AP-24AP/MOR-0AP/MOR-0AP	BIG INC 09	169
83	----	ICW03-0041-10AP/0TS-0AP-0AP-2AP-0AP	PWYT-MR- TA 2010	170
84	Hubara-5/3/Sha3/Seri//Shaa4/Lira ----	ICW03-0062-6AP/0TS-0AP-0AP-8AP-0AP	PWYT-MR- TA 2010	171
85	Acsad 529/Karawan's//Somama-3 ----	ICW03-20004-2AP-15AP/0TS-0AP-0AP-8AP-0AP	PWYT-MR- TA 2010	172
86	Girwill-13/2*Pastor-2 ----	ICW03-20005-2AP-10AP/0TS-0AP-0AP-10AP-0AP	PWYT-MR- TA 2010	173
87	Hubara-3/Angi-2//Somama-3 ----	ICW03-20019-12AP-7AP/0TS-0AP-0AP-6AP-0AP	PWYT-MR- TA 2010	174
	Hubara-16/2*Somama-3			

Table S2. Names, pedigrees, selection histories and accession numbers for the 23 Lebanese varieties and 28 Lebanese landraces.

Serial No	Name Pedigree	Species ^a	Selection history
1	Naamaa	DW	- ^b
2	Haramoun	BW	-
3	Nab El Jamal	DW	-
4	Super X	BW	-
5	Senatore Cappelli	DW	-
6	Florence Aurore	BW	Blanc de Naples/Improved_Fife//Blanc de Naples/3/Improved_Fife/Eden
7	Stork	DW	-
8	Azeghar	DW	20048/Traikia(Mor)/Mrb5//Stj3 (ICD92-0511-MABL-0AP-16AP-0TR-12AP-0AP)
9	Tal Amara 2	BW	ACSAD529/4/C182.24/C168.3/3/Cno*2/7C//Cc/Tob (ACS-W-8024-14IZ-1IZ-3IZ-OIZ)
10	Genessi	BW	-
11	Icarasha	DW	Stj3//Bcr/Lks4/3/TER-3 (ICD99-0091-T-3AP-0AP-10AP-0AP)
12	Tal Amara 1	DW	Stork 's'.CM 470-1M-2Y-OM//Gdavz-469-AA's/Stork
13	Tal Amara 3	DW	Belikh//Gediz/Bit (ACS-D-7284-22IZ-17IZ-4IZ-OIZ)
14	Tannour	BW	-
15	885	BW	Vee's'/Bow's'//ALD's'-PVN's'(ACS-W-7957-21IZ-8IZ-3IZ-OIZ)
16	Sham 8	BW	-
17	MR 1009	BW	-
18	Katilla	BW	-
19	Bouhouth 6	BW	-
20	Aammoun	BW	-
21	Lahn	DW	-
22	Miki	DW	Stj3//Bcr/Lks4 (ICD94-0994-C-10AP-0AP-2AP-0AP-9AP-0TR)
23	A1103	BW	Belikh//Gediz/Bit (ACS-D-7284-22IZ-14IZ-8IZ-OIZ)
1	Salamouni	BW	Landrace
2	Salamouni	BW	Landrace
3	Salamouni	BW	Landrace
4	Salamouni	BW	Landrace
5	Salamouni	BW	Landrace
6	Ukranian Variety	BW	Landrace
7	Ukranian Variety	BW	Landrace
8	Salamouni	BW	Landrace
9	Salamouni	BW	Landrace
10	Salamouni	BW	Landrace
11	Salamouni	BW	Landrace
12	Salamouni	BW	Landrace
13	Salamouni	BW	Landrace
14	Salamouni	BW	Landrace
15	Salamouni	BW	Landrace
16	Salamouni	BW	Landrace
17	Salamouni	BW	Landrace
18	Salamouni	BW	Landrace
19	Nessr	BW	Landrace
20	Awnless Variety	BW	Landrace
21	Abou Shwereb	DW	Landrace
22	Abou Shwereb	DW	Landrace
23	Abou Shwereb	DW	Landrace
24	Bekaii	DW	Landrace
25	Abou Shwereb	DW	Landrace
26	Haurani	DW	Landrace
27	Bekaii	DW	Landrace
28	Waha	DW	Landrace

^a BW = bread wheat and DW = durum wheat.^b indicates missing data.

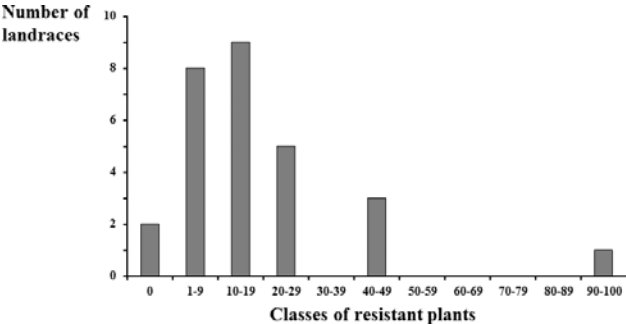


Figure S1. Distribution of resistance classes (infection types up to 6) in the Lebanese wheat landraces tested at the seedling stage with 11 races of *Puccinia striiformis* f. sp. *tritici*.