

Supplementary Material

Evaluation of performance and stability of new sources for tolerance to post-emergence herbicides in lentil (*Lens culinaris ssp. culinaris* Medik.)

Rind Balech^{A,*}, Fouad Maalouf^{A,*}, Somanagouda B. Patil^B, Kamal Hejjaoui^B, Lynn Abou Khater^A, Karthika Rajendran^C, Diego Rubiales^D, and Shiv Kumar^B

^AInternational Center for Agricultural Research in the Dry Areas (ICARDA), Terbol, Lebanon.

^BICARDA, Rabat, Morocco.

^CVIT School of Agricultural Innovations and Advanced Learning (VAIAL), Vellore Institute of Technology, Vellore 632014, Tamil Nadu, India.

^DInstitute for Sustainable Agriculture, Consejo Superior de Investigaciones Científicas (CSIC), Córdoba, Spain.

*Correspondence to: Rind Balech International Center for Agricultural Research in the Dry Areas (ICARDA), Terbol, Lebanon Email: r.balech@cgiar.org; Fouad Maalouf International Center for Agricultural Research in the Dry Areas (ICARDA), Terbol, Lebanon Email: f.maalouf@cgiar.org

TABLE S1. Country of origin of the landraces lines and pedigree of ICARDA's breeding lines of the tested accessions for herbicide tolerance

Landraces Lines						ICARDA-Breeding Lines					
IG	ORI	IG	ORI	IG	ORI	IG	Pedigree	IG	Pedigree	IG	Pedigree
IG2442	Afghanistan	IG4152	India	IG2297	Pakistan	IG4345	-	IG114685	-	IG138041	ILL7010xILL1939
IG73972	Afghanistan	IG4164	India	IG71282	Pakistan	IG5722	ILL883xILL470	IG114687	-	IG138060	ILL2573xILL7537
IG213	Afghanistan	IG4900	India	IG108568	Pakistan	IG5748	ILL883xILL470	IG114688	-	IG156537	ILL8077xILL6994
IG857	Algeria	IG5151	India	IG4606	Palestine	IG5769	ILL101xILL445	IG114700	-	IG156560	ILL2126xILL4659
IG4605	Argentina	IG156695	India	IG1918	Portugal	IG70059	ILL4349xILL4605	IG114703	-	IG156571	ILL6434xILL6972
IG122913	Argentina	IG223	Iran	IG71338	Portugal	IG70070	ILL501xILL2	IG114708	-	IG156579	ILL6024xILL0098
IG122915	Argentina	IG2406	Iran	IG4819	Russia	IG70079	ILL262xILL3458	IG114713	-	IG156581	ILL8090xILL6783
IG156747	Australia	IG4886	Iran	IG323	Serbia	IG70080	ILL1xILL936	IG114718	-	IG156633	ILL7620x88522
IG156769	Australia	IG73948	Italy	IG5628	Spain	IG71136	ILL1880xILL253	IG114719	-	IG156635	ILL7620x91517
IG69497	Bangladesh	IG5244	Jordan	IG5028	Spain	IG71139	ILL8xILL212	IG117635	ILL467xILL45	IG156648	ILL7620x91517
IG157234	Bangladesh	IG5562	Jordan	IG29	Syria	IG71190	ILL4353xILL4400	IG117646	ILL6209xILL5671	IG156649	ILL7620x91517
IG157238	Bangladesh	IG69492	Jordan	IG2131	Syria	IG71379	ILL4404xILL1744	IG117659	ILL707xILL468	IG156650	ILL7620x91517
IG224	Belgium	IG2150	Jordan	IG4400	Syria	IG71399	ILL4605xILL2582	IG117678	-	IG156656	ILL358xILL87062
IG122916	Bulgaria	IG5261	Jordan	IG5509	Syria	IG73642	ILL5588xILL5582	IG117679	-	IG156726	ILL8116xILL5562
IG361	Chile	IG5384	Jordan	IG71595	Syria	IG73647	ILL223xILL193	IG117681	-	IG156735	ILL7949xILL7686
IG459	Chile	IG73789	Jordan	IG71701	Syria	IG73653	ILL5588xILL5582	IG117683	-	IG156775	ILL8116xILL5562
IG461	Chile	IG840	Lebanon	IG73712	Syria	IG73661	ILL223x79SH4901	IG117684	ILL298xILL4605	IG156790	ILL8090xILL7980
IG468	Chile	IG5626	Lebanon	IG73734	Syria	IG73675	ILL2578xILL5588	IG117685	ILL4605xILL5888	PAK 89510	-
IG975	Chile	IG4804	Libya	IG73934	Syria	IG73680	ILL3527xILL5071	IG117689	ILL6024xILL5486	PAK 89517	-
IG4637	Chile	IG623	Macedonia	IG918	Tunisia	IG73683	ILL4225xILL353	IG117690	ILL5748xILL2580	PAK 91517	-
IG5488	Chile	IG624	Macedonia	IG590	Turkey	IG73685	ILL4225xILL4605	IG122889	ILL5700xILL6239	AKM 568	-
IG956	Chile	IG353	Mexico	IG1878	Turkey	IG73855	ILL5588xILL223	IG122890	ILL4965xILL6155	ILL8008	-
IG1005	Chile	IG502	Mexico	IG556	Turkey	IG73858	ILL5588xILL99	IG122901	ILL4399xILL5722	LC 960090	-
IG890	Cyprus	IG5553	Mexico	IG2181	Turkey	IG73874	Sel. 80S42188xILL223	IG122907	ILL6471xILL4404	LC99602614Z	-
IG69577	Cyprus	IG5645	Mexico	IG73954	Ukraine	IG73876	ILL4354x1880x813	IG122921	ILL6243xILL5883	Nipal-CB-20-1	-
IG262	Cyprus	IG358	Mexico	IG73979	USA	IG75920	ILL5879xILL5714	IG122922	ILL6243xILL5883	Nipal-CB-21	-
IG818	Egypt	IG98	Morocco	IG950	Yemen	IG75929	ILL6003xILL5745	IG122926	ILL6245xILL1939	Nipal-CB-38-2	-
IG2439	Ethiopia	IG1939	Morocco	IG71213	Yemen	IG75932	ILL5583xILL5726	IG122948	ILL4605xILL2501	Nipal-CB-83-1	-
IG5639	Ethiopia	IG111986	Morocco	IG2230	Yugoslavia	IG76221	ILL5588xILL5883	IG124505	ILL1939xILL6453	sel 88527	-
IG156693	Ethiopia	IG71444	Morocco	ILL8006	Bangladesh	IG76251	ILL5762xILL5884	IG124523	ILL7165xILL7554	YL 350020	-
IG71479	France	IG111991	Morocco	ILXB 87009	Bangladesh	IG76256	-	IG124524	ILL468xILL662	YLX 350007	-
IG4881	Germany	IG3487	Nepal	ILXB 87075	Bangladesh	IG76262	-	IG124526	ILL5871xILL2580		
IG5533	Greece	IG76156	Nepal	LRIL-22-46	Bangladesh	IG76266	-	IG124527	H4-9-83xGIZA37		
IG494	Guatemala	IG2194	Pakistan	ILL8009	Nepal	IG109076	-	IG124528	ILL6024xGIZA370		
IG2580	India	IG4404	Pakistan	ILL7163	Pakistan	IG109079	-	IG129136	ILL7163xILL7554		
IG916	India	IG75882	Pakistan	ILL7127	Syria	IG114668	-	IG129163	ILL6239xILL1712		
IG931	India	IG122918	Pakistan	LC 960254	USA	IG114670	-	IG137959	ILL6155xILL5779		
IG3517	India	IG122920	Pakistan	USA-3	USA	IG114672	-	IG137991	ILL7005xILL1939		