

Research Article



Field Evaluation of High Yielding Genotypes of Lentil (*Lens Culinaris Medik.*) Developed through Induced Mutagenesis

Mohammad Aquil Siddiqui^{1*}, Muhammad Tahir Khan¹, Ghulam Shah Nizamani¹, Shafquat Yasmeen¹, Imtiaz Ahmed Khan¹, Abdullah Khatri¹ and Nighat Seema Soomro²

¹Plant Breeding and Genetics Division, Nuclear Institute of Agriculture, Tando Jam, 70060, Pakistan; ²Department of Agronomy, Sindh Agriculture University, Tando Jam, 70060, Pakistan.

Received | March 28, 2019; **Accepted** | October 03, 2019; **Published** | March 02, 2020

***Correspondence** | Mohammad Aquil Siddiqui, Plant Breeding and Genetic Division, Nuclear Institute of Agriculture, Tando Jam, 70060, Pakistan; **Email:** siddiqui_aquil@yahoo.com

Citation | Siddiqui, M.A., M.T. Khan, G.S. Nizamani, S. Yasmeen, I.A. Khan, A. Khatri and N.S. Soomro. 2019. Field evaluation of high yielding genotypes of lentil (*Lens culinaris medik.*) developed through induced mutagenesis. *Pakistan Journal of Agricultural Research*, 33(1): 164-169.

DOI | <http://dx.doi.org/10.17582/journal.pjar/2020/33.1.164.169>

Keywords | Boron, Foliar application, Grain yield, Growth stages, Lentil

Supplementary Table 1: Analysis of variance (mean squares) for different traits of lentil during season 2016-17.

Source	DF	Days to maturity	Plant height (cm)	Number of branches Plant ⁻¹	Number of seed pods ⁻¹	1000 seed wt. (g)	Seed yield (kg ha ⁻¹)
Replications	2	5.1667	0.51389	0.15167	0.00222	0.6817	2886
Varieties	5	11.8333**	9.69156**	0.97433**	0.09689**	24.0013**	146536**
Error	10	0.7000	0.71856	0.01500	0.01822	0.6030	0.14964

Supplementary Table 2: Analysis of variance (mean squares) for different traits of lentil during season 2017-18.

Source	DF	Days to maturity	Plant height (cm)	Number of branches plant ⁻¹	Seed pods ⁻¹	1000 seed wt. (g)	Seed yield (kg ha ⁻¹)
Replications	2	2.8889	1.8372	0.02167	0.01167	0.1706	3719
Varieties	5	15.3889**	26.7446**	1.17867**	0.34633**	42.0422**	264568**
Error	10	0.3556	1.0052	0.03633	0.01900	0.5712	0.2867

Supplementary Table 3: Analysis of variance (mean squares) for different traits of lentil (pooled data of 2016-17 and 2017-18).

Source	DF	Days to maturity	Plant height (cm)	Number of branches plant ⁻¹	Seed pods ⁻¹	1000 seed wt. (g)	Seed yield (kg ha ⁻¹)
Replications	2	0.11482	0.3276	0.00787	0.00241	0.0287	0.26722
Varieties	5	8.79212**	15.8171**	0.97513**	0.09394**	19.5715**	199450**
Error	10	0.03924	0.0139	0.00071	0.00646	0.0044	0.08322