

..... (*Gossypium hirsutum* L.)

(*Gossypium hirsutum* L.)

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Bulgar539×N:200

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Na⁺

Cl⁻

K⁺/Na⁺ K⁺

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$\bar{y} \times \bar{y}$

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EXCEL

SAS SPSS

Texture	Sand (%)	Silt (%)	Clay (%)	K (ppm)	P (ppm)	O.C (%)	pH	EC (dS/m)
-	/	/	/	\bar{y}		\bar{y}	/	/
-	-	-	-	-	-	-	/	/

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Asj×Sealand		Bulgar539	
(Asj×Sealand)×(Var×Sahl×Okra)		Bulgar539×Opal	
(Asj×Sealand)×Cok349		Bulgar539×(Asj×Sealand)	
(Asj×Sealand)×N:200		Bulgar539×(Var×Sahl×Okra)	
Var×Sahl×Okra		Bulgar539×Cok349	
(Var×Sahl×Okra)×Cok349		Bulgar539×N:200	
(Var×Sahl×Okra)×N:200		Opal	
Cok349		Opal×(Asj×Sealand)	
Cok349×N:200	ÿ	Opal×(Var×Sahl×Okra)	
N:200		Opal×Cok349	ÿ
		Opal×N:200	

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Bulgar539	/	/	ÿ/	/ ÿ	/ÿ	/ ÿ	/	/	
Opal	/ÿ	/	ÿ/	/	ÿ/	/	/	/	
Asj×Sealand	/ÿ	/	/	/ ÿ	/ ÿ	/ ÿ	/	/ÿ	ÿ
Var×Sahl×Okra	/	/ÿ	ÿ/	/	/ÿ	ÿ/ ÿ	/	/ÿÿ	
Cok349	ÿ/ÿ	ÿ/ ÿ	/	/	/ ÿ	/ ÿ	/	/	ÿÿ
N:200	/	/ ÿ	ÿ/ ÿ	/	/	/ ÿ	/ ÿ	/ÿ	

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(MS)									
ns	/ *	/ ns	ÿ/ **	/ ns	/ *	ÿ/ ns	/ **	/ **	
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Bulgar539

N:200 (kg/ha)

(kg/ha)

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Bugar539×N:200

(ÿ kg/ha)

Opal×Cok349

(kg/ha)

Bugar539×N:200

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(Var×Sahl×Okra)×Cok349

Bulgar539×Cok349

Opal×(Var×Sahl×Okra)

(Asj×Sealand)×Cok349

(kg/ha)						
ab	/ cd	/ b-h	/ \bar{y}^{ef}	$\bar{y}/$ \bar{y}^{de}	/ a-d	Bulgar539
a-d	/ a-c	/ c-h	\bar{y}/\bar{y}^f	\bar{y}/\bar{y}^e	/ \bar{y}^d	Bulgar539×Opal
ab	/ a-c	/ \bar{y}^{a-c}	$\bar{y}/$ \bar{y}^{a-f}	$\bar{y}/$ \bar{y}^{a-e}	/ a-c	Bulgar539×(Asj×Sealand)
a-c	/ a-c	/ \bar{y}^{a-c}	/ a-d	$\bar{y}/$ \bar{y}^{a-e}	$\bar{y}/$ a-c	Bulgar539×(Var×Sahl×Okra)
ab	/ a	$\bar{y}/$ \bar{y}^a	/ a-f	$\bar{y}/$ \bar{y}^{b-e}	/ a-c	Bulgar539×Cok349
a	/ a-c	/ \bar{y}^{a-c}	$\bar{y}/$ \bar{y}^{c-f}	$\bar{y}/$ \bar{y}^{c-e}	/ b-d	Bulgar539×N:200
a-d	/ b-d	/ e-h	/ b-f	$\bar{y}/$ \bar{y}^{a-e}	/ cd	Opal
a-c	$\bar{y}/$ ab	/ d-h	/ d-f	$\bar{y}/$ \bar{y}^{c-e}	/ \bar{y}^{a-d}	Opal×(Asj×Sealand)
ab	/ a	/ a-e	/ a-d	/ a-d	/ ab	Opal×(Var×Sahl×Okra)
d	/ b-d	/ h	/ a-f	$\bar{y}/$ \bar{y}^{b-e}	$\bar{y}/$ d	Opal×Cok349
\bar{y}^{a-c}	/ b-d	/ a-d	/ a-f	$\bar{y}/$ \bar{y}^{b-e}	/ b-d	Opal×N:200
\bar{y}^{a-d}	$\bar{y}/$ b-d	/ c-h	/ \bar{y}^{a-c}	/ ab	/ a-c	Asj×Sealand
a-c	$\bar{y}/$ b-d	/ a-g	$\bar{y}/$ \bar{y}^{a-f}	\bar{y}/\bar{y}^{a-e}	/ \bar{y}^{a-c}	(Asj×Sealand)×(Var×Sahl×Okra)
ab	/ a-c	/ \bar{y}^{a-d}	/ a-d	$\bar{y}/$ \bar{y}^{a-e}	/ a	(Asj×Sealand)×Cok349
a-d	$\bar{y}/$ b-d	/ \bar{y}^{c-h}	/ a-f	$\bar{y}/$ \bar{y}^{b-e}	/ \bar{y}^{a-c}	(Asj×Sealand)×N:200
a-d	\bar{y}/\bar{y}^d	/ c-h	/ a-e	$\bar{y}/$ \bar{y}^{a-e}	$\bar{y}/$ ab	Var×Sahl×Okra
a-d	/ b-d	/ \bar{y}^{b-h}	/ \bar{y}^a	/ a	/ ab	(Var×Sahl×Okra)×Cok349
\bar{y}^{a-c}	/ a-c	/ a-f	/ \bar{y}^{ab}	/ a-c	/ a-c	(Var×Sahl×Okra)×N:200
$\bar{y}\bar{y}^{bd}$	/ a-c	/ gh	/ a-d	/ a-c	$\bar{y}/$ \bar{y}^{a-d}	Cok349
ab	/ a-c	/ \bar{y}^{ab}	/ a-d	/ a-c	$\bar{y}/$ a-c	Cok349×N:200
cd	$\bar{y}/$ b-d	/ \bar{y}^{f-h}	/ a-f	$\bar{y}/$ \bar{y}^{a-e}	/ \bar{y}^{a-d}	N:200

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Study of Relationship Between Yield and Yield Component in Cotton (*Gossypium hirsutum* L.) Under Saline Conditions

L. Fahmideh¹, N.A. Babaeian Jelodar², O. Alishah³, S.K. Kazemitabar⁴ and H. Mosallami⁵

Abstract

To study yield, yield component and some morphological traits in cotton, six parents with 15 hybrids (totally 21 genotypes) were evaluated using a randomized complete block design with three replications at a salty farm Bandar Torkaman area in 2005. Nine traits were measured including the percentage of germination, plant height, number of monopodial branches, length of monopodial branches, number of sympodial branches, length of sympodial branches, boll number, boll weight and yield. Analysis of variance and mean comparison show highly significant differences among the genotypes for the traits, such as plant height, length of monopodial branches, boll number, boll weight and yield. Also results showed that a positive and significant simple correlation between yield and germination, plant height, number and length of sympodial branches and boll number but non significant for number and length of monopodial branches and boll weight.

Keywords: Cotton, Salinity, Analysis of variance, Mean comparison, Simple correlation

1- Ph.D Student, Sari Agricultural Sciences and Natural Resources University

2- Proffesore, Sari Agricultural Sciences and Natural Resources University

3- Assistant Proffesore, Cotton Research Institute, Gorgan

4- Associate Professor, Sari Agricultural Sciences and Natural Resources University

5- B.Sc. of Natural Resources Engineering Regulation, Gorgan