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(**p<0.01**)

× ×

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(Mishra et al., 1996)

(*Cicer arietinum* L.)

(1992) Singh & Dixite .(Harris, 1996)

(

(2000) Kamel & Soltani .

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.(Burlyn & Kaufman, 1973)

$$\Psi = (2.67 \times 10^{-4})CT + (8.39 \times 10^{-7})C^2T - C(1.18 \times 10^{-2}) - (1.18 \times 10^{-4})C^2$$

:

() =Ψ

() =C

() =T

.(Alvarado et al., 1987)

.(Singh & Dixite, 1992)

$$C_M = C/M$$

:

(/) = C_M

() =C

(/) = M

.(Finch-savage et al., 2004)

.(Bradford, 1995)

°C

(1999) Musa et al. .(Kaur et al., 2002)

°C

%

× ×

(2001) Harris et al.

.(Verma et al., 2005)

$$GR = \sum (n/t)$$

$$GI = \frac{(8 \times n_1) + (7 \times n_2) + \dots + (1 \times n_7)}{\text{کل بذور جوانه زده}}$$

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-
1. Germination rate
 2. Germination index

(KNO₃)

(PEG)

...

:

()

=GR

= GI

= n

= t

(LSD)

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/ ns	/ ns	/ ns
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/ *	/ ns	/ ns
/ ns	/ ns	/ ns
/ *	/ ns	/ ns
/ ns	/ ns	/ ns
/ ns	/ ns	/ *
/	/	/

% : % :

:ns

// // / /
x x

(p)
(t)
(p) × (t)
(v)
(v) × (t)
(v) × (p)
(p) × (v) × (t)
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(Yazdi-Samadi et al., 2001)

.(p< 0.05)

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(2002) Satvir et al.

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LSD

Malek .()

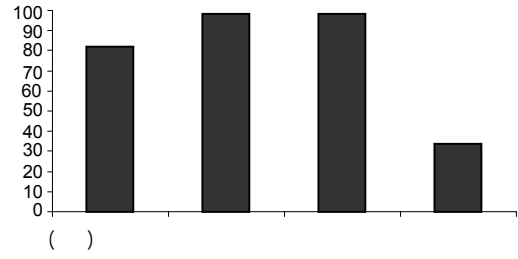
()

(1992)

(2002) Kaur et al.

(%)

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(%)

(%)

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(LSD)

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(1992) Singh & Dixite

— %

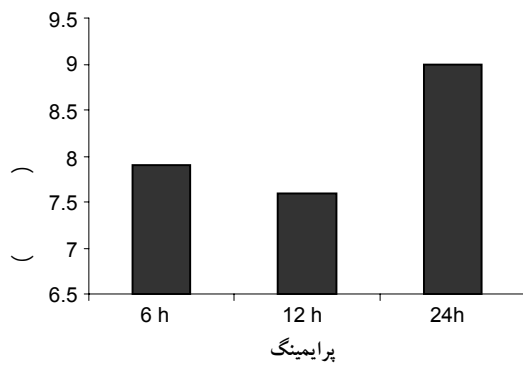
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(2005) Harris

%



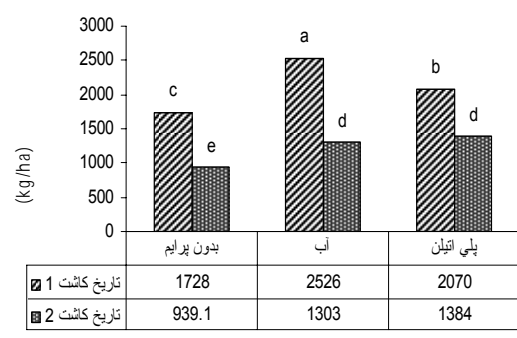
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(LSD)

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 Harris et al. ()

(2001)

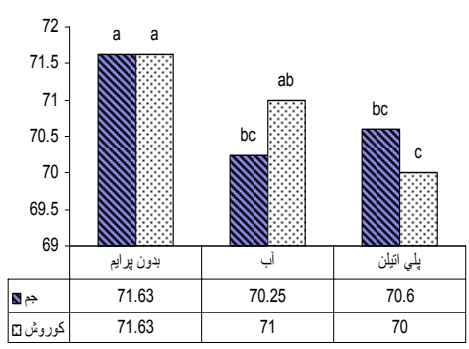
.() %

Musa et al.

(1999)

.()

(2002) Kaur et al.



(LSD)

(1992) Varshney .

(LSD)							
()				(/) (/)			
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/	/	/	/	/	/	/	(D)
/	/	ns	/ ns	/	/	/	(P)
/ ns	/	/ ns	/	/ ns	/	/	(P) × (D)
ns	/ ns	/	/ ns	ns	/ ns	/	(v)
/ ns	/ ns	/ ns	/ ns	ns	/ ns	ns	(v) × (D)
/ ns	/	/ ns	/ ns	/ ns	ns	ns	(v) × (P)
/ ns	/ ns	/ ns	/ ns	/ ns	/ ns	ns	(P) × (v) × (D)
/	/	/	/	/	/	/	(e)
/	/	/	/	/	/	/	(%cv)
				ns %			:

(LSD)							
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/ b	/ b	/ a	/ a	/ b	/ a	a	
/ b	/ b	/ b	/ a	a	/ a	a	
/ a	/ a	/ a	/ a	/ b	a	/ a	()
/	/	/	/	/	/	/	LSD (p < 0.05)

(LSD)							
()				(%)	(/) (/)		
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/ b	/ b	b	/ b	/ b	b	b	/ b

PEG

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PEG

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