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**(*Carthamus tinctorius* L.)**

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(Ninganoor et al., 1995)

(*Carthamus tinctorius* L.)

(Ingram & Bartels, 1996; Jones & Verneye,  
1992)

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(Mahajan & Tuteja, 2005)

% /

% /

(Zeinali, 1999)

%/

% / %

(Lee et al., 2004)

(Arnon, 1986)

(Wilkinson, 2002)

( : ) ( : )  
( : )

(Mahajan & Tuteja, 2005)

( : )

(Hamrouni et al., 2001)

(Paquine et al., 1979)

(*Brassica napus* L.)

... ( ) :

(Bokhari & Trent, 1985;

/ / /

.Bucheran et al., 1996)

. ppm / /

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.(Mekki et al., 1999)

(*Arachis hypogaea* L.)

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.(Dwived et al., 1996)

.(Blum, 1996)

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.(Hamrouni et al., 2001)

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(1997) Tanaka et al.

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/ / Ec pH

(Paleg & Aspinall, 1981; Sanchez et al., 1998)  
(*Medicago sativa* L.) (1992) Irigoyen et al.  
(*Pisum sativum* L.) (1998) Sanchez et al.

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Paquine & Lechasseur

(1979)

(1992) Irigoyen et al.

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(1966) Metcalf et al.

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UNICAM 4600 Gas Chromatograph

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BPX 70

SAS

( $P < /$  )

MS Office

(Bukhari & Terent, 1985)

(Hekmat Shoar, 1993; Sanchez et al., 1998)

×

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(1985) Bokhari & Terent

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(Bajji et al., (Zaifnejad et al., 1997)

(Kundu & Paul, 1997) 2001)

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... ( ) :

(Hamrouni et al., 2001)

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( :O) " × )

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Mekki et al. (2001) Hamrouni et al.

(*Helianthus annus* L.) (1999)

Eliass & Stephen .

(2001)

" × " ×

× " (p< / )

(p< / )" × " "

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(Hamrouni et al., 2001)

( :)

(Dwived et al., 1996)

( : )" " .( )

/ *	/ ns	/ ns	/ ns	/ ns	/ ns	/ ns	/ ns	/ ns	/ ns
/ **	/ **	/ ns	/ **	/ ns	/ ns	/ ns	/ ns	/ ns	/ ns
/ ns	/ ns	/ ns	/ ns	/ ns	/ ns	/ ns	/ ns	/ ns	/ ns
/ ns	/ ns	/ ns	/ **	/ ns	/ ns	/ ns	/ ns	/ ns	/ ns
/ ns	/ *	/ **	/ **	/ **	/ *	/ ns	/ ns	/ ns	/ ns
/ ns	/ ns	/ ns	/ **	/ *	/ *	/ ns	/ ns	/ ns	/ ns
/ ns	/ ns	/ ns	/ **	/ *	/ ns	/ ns	/ ns	/ ns	/ ns
/ ns	/ ns	/ ns	/ **	/ ns	/ ns	/ ns	/ ns	/ ns	/ ns
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% %

\*\* \* ns

(S)

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(V)

(F)

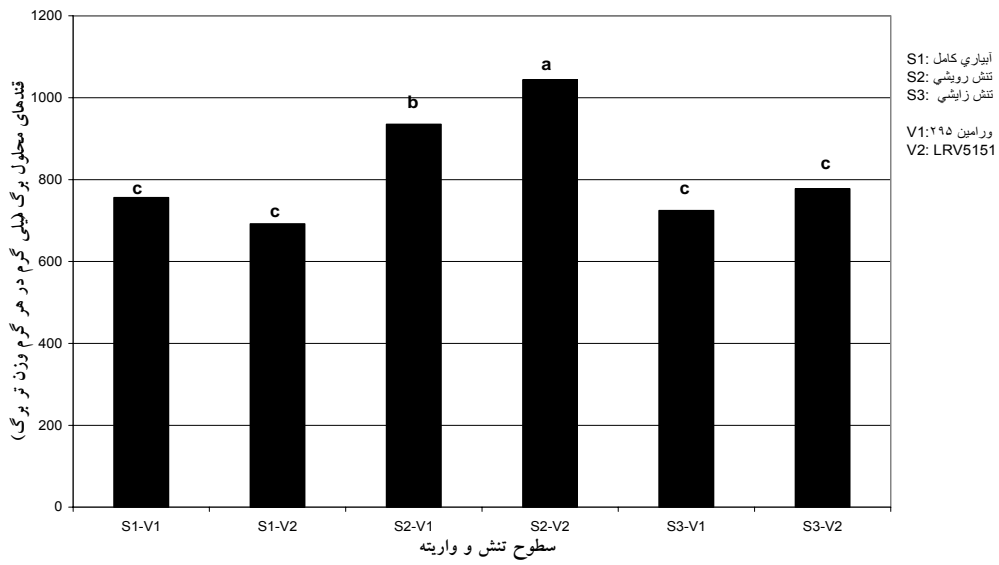
V × S

F × S

V × F

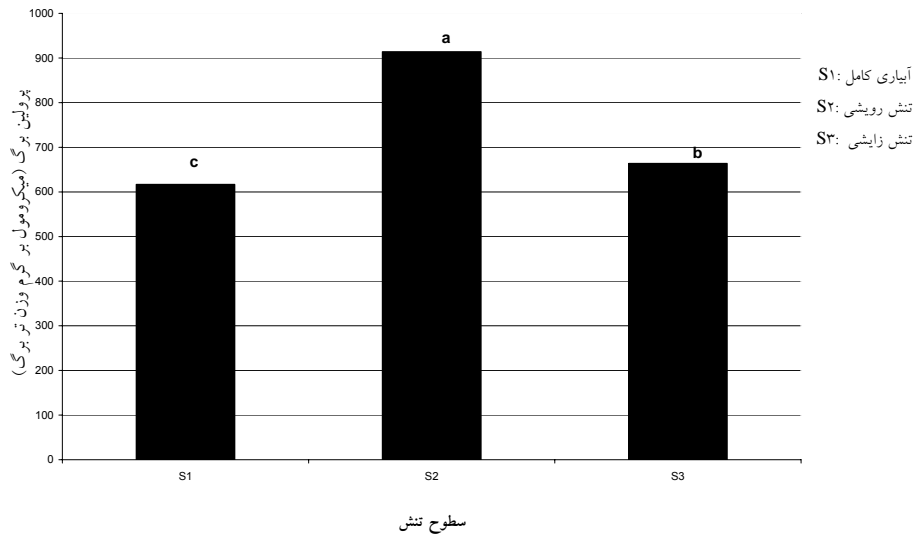
S × V × F

( )

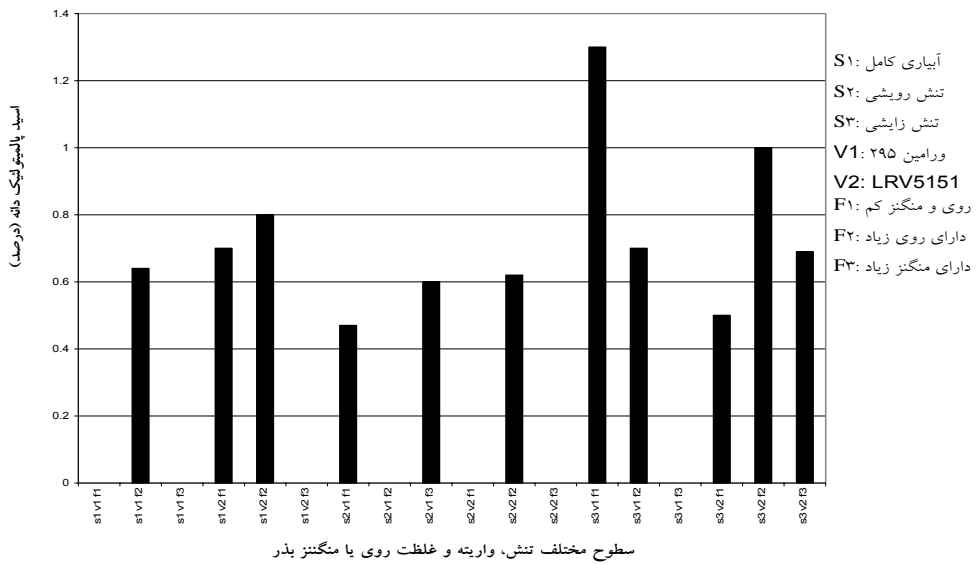
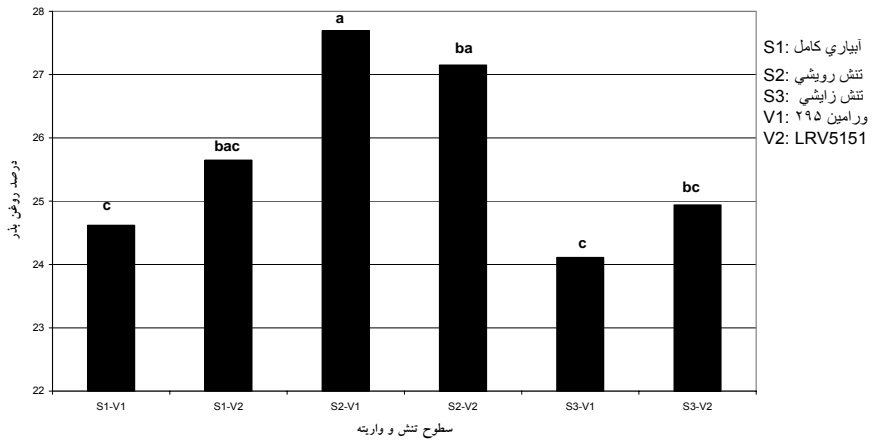


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... ( ) :



" x "

( ) (p < / )

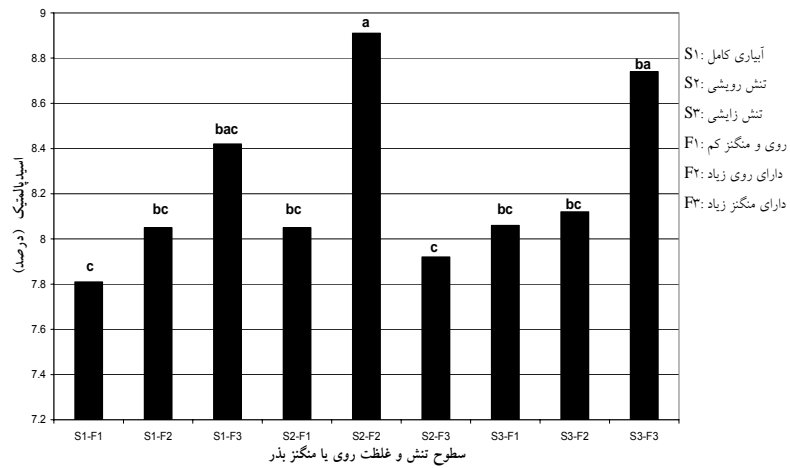
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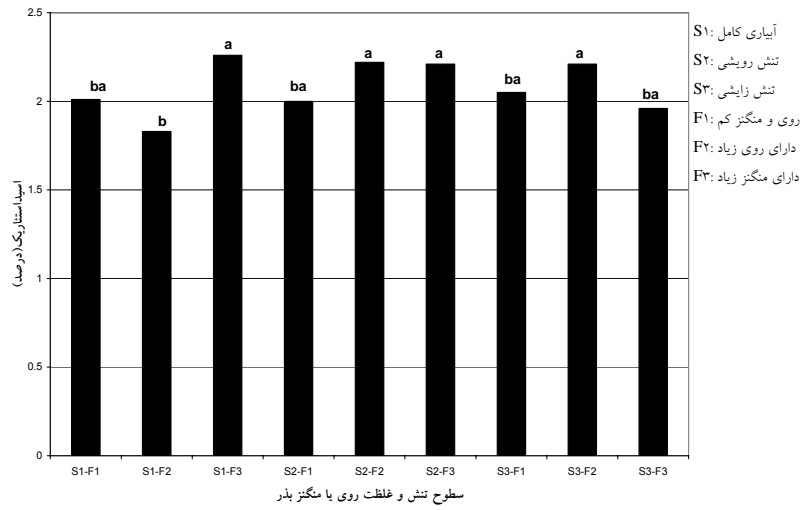
(Hashim et al., ( : )

(Hamrouni et al., 2001)

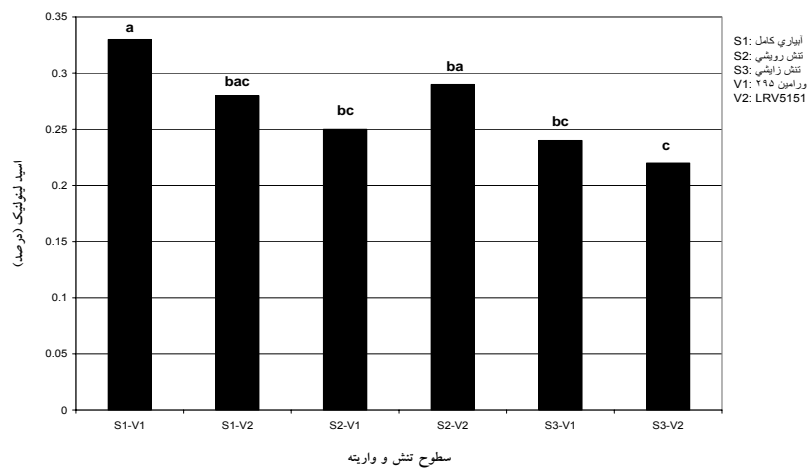
1996)



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