

( ) , ( )

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( // : // : )

( Kg ha<sup>-1</sup> ) ( )

قبل از کاشت، مرحله ۶-۸ برگی و قبل از گلدهی

/ kg m<sup>-3</sup> mm

cm

cm

:

/

(Uhart and

.Andrade, 1995b)

(Ashori and Rozbahani, 2004)

(Kanwar et al.,1985;

Abbasi et al., 2003; Sabillon and Melkley; 2004)

(Mehdi and Madramootoo, 1999)

.(Mahvi et al., 2005)

(Raun and Johnson, 1999)

.(Vaezi et al., 2002)

.(Ludwick et al., 1976)

)

(

.(Abbasi et al., 2003)

/

.( Zhu et al., 2005 )

.(Ritter and Manger, 1985)

:

\*

khorranyan.mohammad@yahoo.com

I75 I50

(Abbasi et al., 2008)

I100

N225 N150

N300 (Benjamin

et al., 1994)

(Lack,

2006)

CO(NH<sub>2</sub>)<sub>2</sub>)

(gcm <sup>-3</sup> )		(% )		pH	EC (dS m <sup>-1</sup> )	Ntot (mg Kg <sup>-1</sup> )	OC (%)	(cm)
		PWP	FC					
۱/۶۱	لوم رسی سیلتی	۱۷/۹	۳۳	۷/۶۴	۱/۳	۸۱۰	۰/۷۵	۰-۳۰
۱/۶۸	لوم رسی سیلتی	۱۸	۳۳	۷/۷۹	۰/۲۷	۵۶۰	۰/۵	۳۰-۶۰
۱/۷	لوم رسی سیلتی	۱۸/۴	۳۴/۲	۷/۹۳	۰/۶۹	۴۲۰	۰/۴۷	۶۰-۹۰
۱/۷	لوم رسی سیلتی	-	-	۷/۸۶	۰/۶۲	۳۸۰	۰/۳۴	۹۰-۱۲۰

WSC

(Walker and Skogerboe, 1987)

MSTATC

A  
( )

(Allen et al., 2000) /  
%

I75)

(I50

)  
(  
mm / ( )  
( / mm )  
/ mm

cm

IPH

(Voucher Number: T95WV-VC6YG)  
N225

(Doorenbos and Pruitt, 1977) mm

/ (TECANAT)

( )

I50 I75

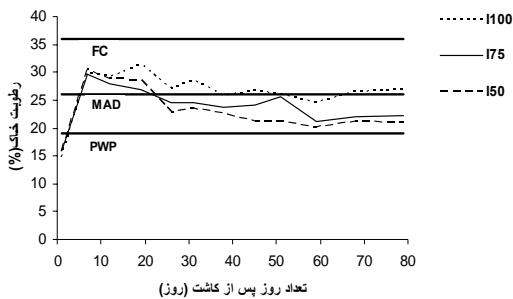
I100

) mm ) (WP )  
(

مقدار آب (mm)				سطح آبیاری (%)
تبخیر و تعرق پتانسیل	نفوذ یافته	خروجی	ورودی	
۷۱۲/۶	۷۶۰/۱	۱۷۱/۷	۹۳۱/۸	I100
-	۷۰۰/۱	۷۹/۸	۷۷۹/۹	I75
-	۵۸۵/۲	۴۵/۹	۶۳۱/۱	I50

(

( )



(PWP) (FC)  
(MAD)  
(Allen et al., 2000)  
I50 I75

N225

)

%

N300

N150 N225

( )

( )

( )

175

(I100)

150 (

/

) 175

150

(Al-Kaisi and Yin, 2003; Osbrone et

(

/

)

.al., 2002; Uhart and Andrade, 1995)

/

( mm

)

m

.(Salimpour,1999)

(

)

)

(

.(Azari et al., 2007)

.(Salimpour,1999)

.(Lack, 2006)

( )

( )

/

N300

I100

%

/

N150

I100

(N300)

( )

N225

N150

N225

N150

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ns

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(%) CV

% %

:\*\* \*, ns

(gr)

(Kgha<sup>-1</sup>mm<sup>-1</sup>)

(tha<sup>-1</sup>)

(%)

a

/

a

/

a

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a

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a

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a

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a

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a

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a

/

ab

/

a

/

b

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a

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a

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a

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b

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a

/

b

(p<0.05)

	(gr)			(tha <sup>-1</sup> )	
			(Kgha <sup>-1</sup> mm <sup>-1</sup> )		(Kgha <sup>-1</sup> )
/ a	/ a	/ a	/ a	/ a	/ a
/ b	/ a	/ a	/ a	/ b	/ b
/ b	/ a	/ a	a	/ b	/ b

(p<0.05)

( ) (AF1)

cm ( ) ppm

(I100)

cm

(BF )

(BF2)

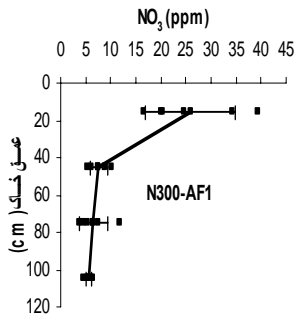
(AF )

( )

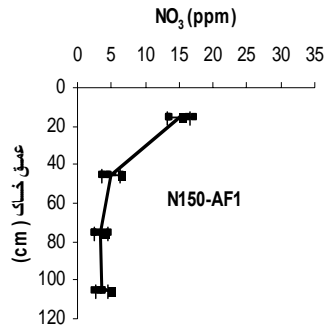
( ) ( )

(I100)

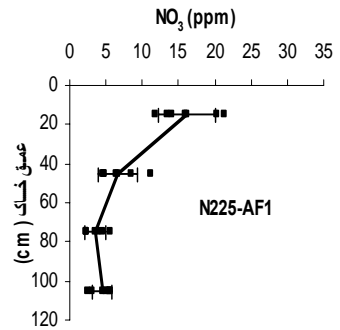
( )



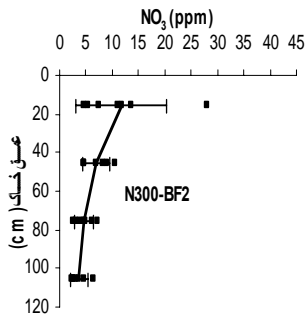
(AF1)



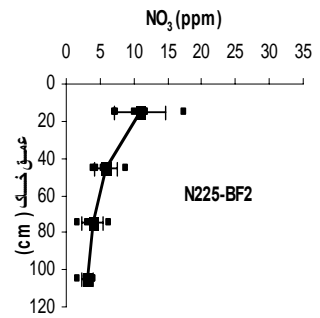
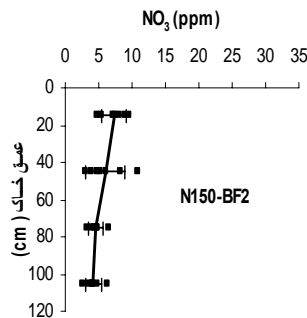
( )



ppm (AF2)



(BF2)

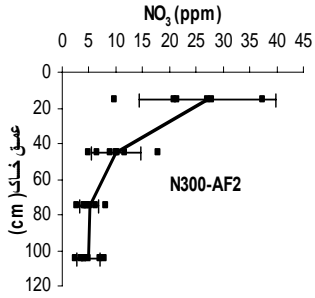


ppm N300 N225 N150

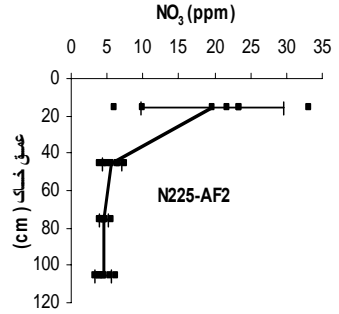
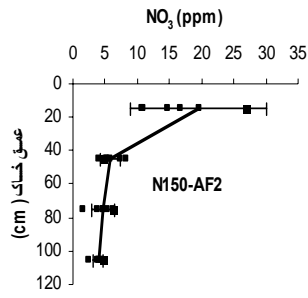
( ) N300

( ) (BF3)

(AF3)



(AF2)



cm

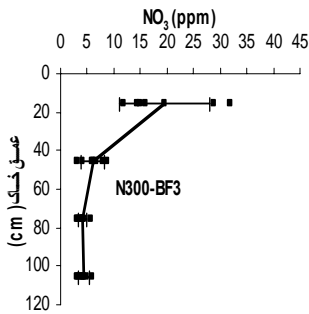
) cm

%

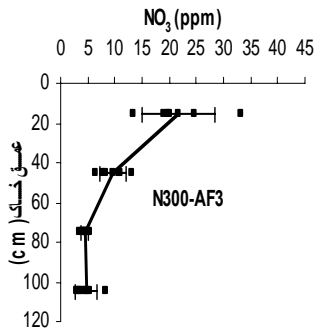
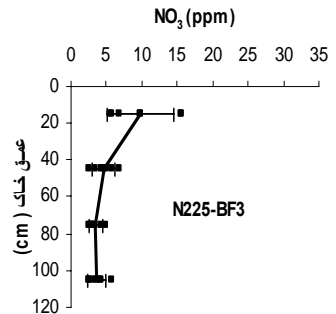
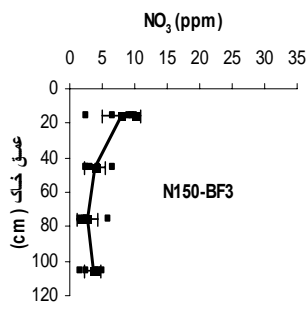
(

( )

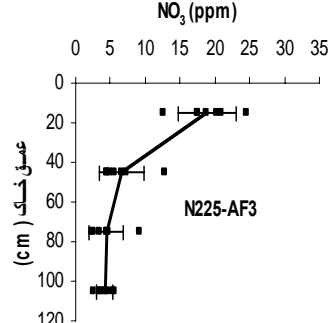
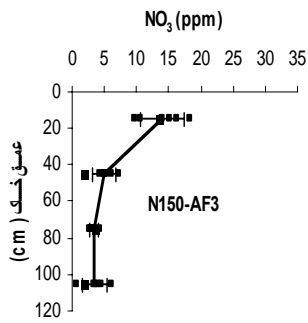
cm



(BF3)



(AF3)



cm

(Playan and Faci; 1977; Abbasi et al., 2003;

( ) (Zaman et al., 2001)

.Sabillon and Melkley; 2004)

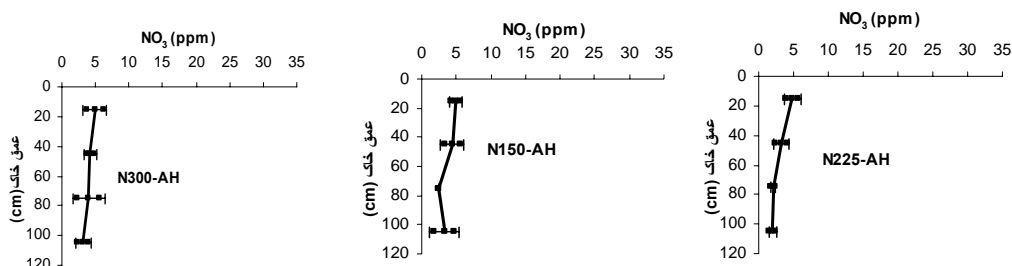
(I100)

cm

(Abbasi et

cm

.al., 2008)



( ) (AH)

/ / N225 N150

cm

%

( )

N300 - cm

cm

I50

I75

tha<sup>-1</sup>

mm

I100

( )

/ kg ha<sup>-1</sup>mm<sup>-1</sup>

%

I75 I50

% )

(

N300

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