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(// : // :)

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(c)

(1987) Powelson et al.

(Asadirahmani et al., 2007)

(Asadirahmani et al., 2007)

(Asadirahmani et al.,

.2007)

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.(Doran, 1980)

.(Handayanto and Cadish, 1995)

somaye_jafari_62@yahoo.com :

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, ()

(1986) Haynes .(1998

.(Asadirahmani et al., 2007)

()

(2004) Noorbakhsh

.(Haynes, 1986)

Constantinides and Fownes (1995) Vigil and Kissel

(1990) Fox et al. . (1994)

(+)

($r^2 = /$)

.(Fox et al., 1990)

(CO₂)

pH

()

.(Besharati, 2000)

Lakziyan

.(Noorbakhsh, 2004)

(2007) and Yazadanpanah

(Kalbasi et al.,

.1988)

pH

.(Raiesi, 2006)

.(Raiesi, 2006)

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(

.(Raiesi, 2006)

(1997) Chapman .(Chapman, 1997)

(1998) Raiesi

CO₂

Raiesi,)

(Oven-drying)

%

(Haynes, 1986)

%

/ %

(Chapman, 1997)

% = % × % ()

(Acid-Detergent Fiber) ADF

(Neutral-Detergent Fiber) NDF (1963) Van Soest

(1976) Van Soest and Wine

()

() ()

(w/w)

()

(*Thiobacillus*

thiooxidans)

% ()

±

±

) (:) pH (:)

()

()

()

(1982) Anderson

()

()

(Black, 1982 ;Black et al., 1965)

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(

(Jones, 2001)

()

/

()

UV7500
(Alef

/
NaOH

NaOH

BaCO₃

.and Nannipieri, 1995)

$$mgCO_2 - C = (B - S) \times N \times E \quad ()$$

() : B
:S
:N
(C CO₂) :E

SAS

LSD

()

()

C/N

.(Alef and Nannipieri, 1995)

C/N

()

(:)

SO ₄ ²⁻ -S (ppm)	OM ()	C/N	OC ()	N ()	P (ppm)	EC (:)	pH (:)	CaCO ₃ ()	()	()	()
/	/	/	/	/	/	/	/	Clay loam	/	/	/

()	(L+Ce)/N	L/N	(L) ()	(H) ()	(Ce) ()	C/N	C ()	N ()
/	/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/	/
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/ % / % / % / % / % / %

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(Zeng et

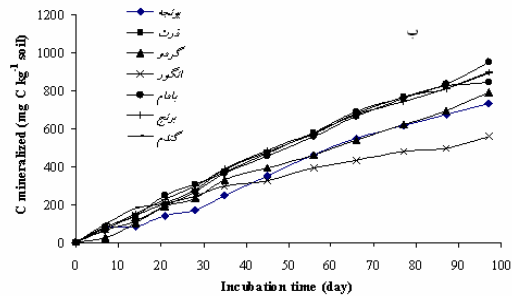
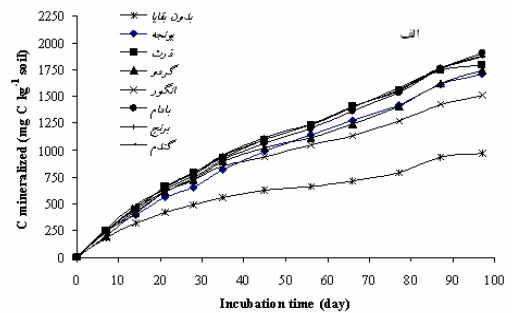
al., 2010 ;Raiesi, 2006)

(F)					
NMR	CMR	N _{min}	C _{min}	df	
/	**	***	**	***	
/	n.s	***	/	n.s	***
/	n.s	/	***	/	n.s

					x

=n.s , P <0.001= *** , P <0.01=** , P <0.05 = *

CMR N_{min} C_{min}
NMR



(Noorbakhsh, 2004)

()

() ()

(C_{min})

()

(2006) Raiesi

(P < /)

mg C/kg

mg C/kg

(2007) Bertrand et al.

()

CO₂-C

/ %

(n=)

NMR	CMR	N _{min}	C _{min}
(mg N kg ⁻¹ day ⁻¹)	(mg C kg ⁻¹ day ⁻¹)	(mg N kg ⁻¹)	(mg C kg ⁻¹)
/ AB	/ G	AB	G
/ A	/ F	A	F
/ D	/ A	D	A
/ BCD	/ D	BCD	D
/ BC	/ B	BC	B
/ CD	/ C	CD	C
/ BC	/ B	BC	B
/ ABC	/ E	ABC	E
/	/	/	/
LSD _()			
/ A	/ C	A	C
/ A	/ B	A	B
/ A	/ A	A	A
/	/	/	/
LSD _()			

NMR CMR N_{min} C_{min}
(LSD)

()

()

pH

(P< /)

()

pH

pH

pH

(pH)

/ % / %

(Speir et al. 1999)

()

×

(P< /)

()

(1997) Chapman

()

()

()

()

/ % / % / % / % / % / %

/ %

/ % / % / % / % / % / %

/ %

(2006) Singh et al. .

(/ %)

()

(/ %)

()

/ % / % / % / % / %

/ % / %

()

(/ %)

($P < /$)

(/ %)

()

() ×

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()

C/N

()

×
($P < /$)

()

(CMR)

(/)

(/)

(Carbon mineralization rate) CMR

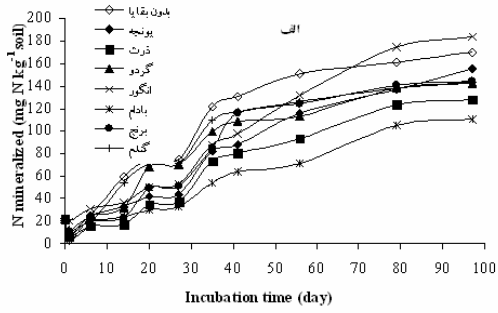
()

($P < /$)

/ mg C kg⁻¹day⁻¹

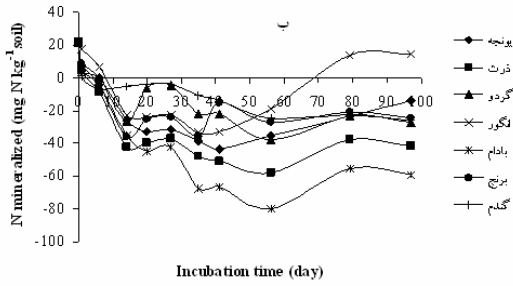
/ mg C kg⁻¹day⁻¹

()



% % % % % % %

(%)



/ % / % / % / %

/ % / % / %

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(/ %)

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/ mg/kg

/ mg/kg

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(/ %)

(/ %)

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.(Raiesi, 2006)

(N_{min})

()

()

($P = /$)

N_{min}

> > > > > > >

, ()

()

($P = /$)

pH pH

pH

()

×

()

($P = /$)

(NMR)

C/N

(Nitrogen mineralization rate)

C/N

C/N

De Neve and

(1996) Hofman

()

C/N= C/N=

C/N=

NMR

($P = /$)

(De

C/N

Neve and Hofman, 1996)

(2003) Salardini

/ /

C/N

(Salardini, 2003)

C/N

/ % / % / %

/ % / % / %

C/N

(2006) Singh et al.

/ %

()

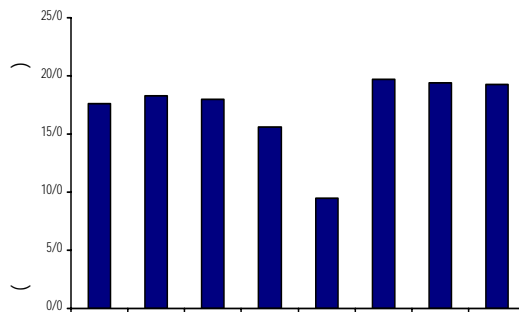
(2006) Flavel and Murphy

(Flavel

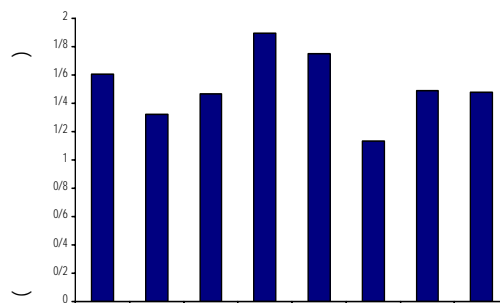
(1981) Saggar et al. and Murphy, 2006)

()

× (P= /)
 ,(P= /)



(n=)



(n=)

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