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(*Cicer arietinum* L.)

(*Hordeum vulgare*)

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(% % %) (% % %)

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(**P<0.01**)

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(1994) Ghorbani & Koochak

(1994) Vaezzadeh .(Ghorbani & Koochaki, 1994)

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(*Cicer arietinum* L.)

(*Hordeum vulgare* L.)

(Hauggaard-

.Nielsen & Jensen, 2001)

Khazaei & Koochaki .

(1993)

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.(Langat et al., 2003)

Banisadr & Bazgosha .

(1997)

(*Lolium multiflorum*)

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.(Koochaki, 1996)

.(Banisadr & Bazgosha, 1997)

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(% % %) (

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INFRAMATIC8620 (NIR)

NIR

MSTATC

(LSD) % % %)

Mn mg/kg	Zn mg/kg	Fe mg/kg	Mg meq/lit	O. M %	K mg/kg	P mg/kg	N %	Ca Meq/lit	Na meq/lit	SAR %	EC ds/m	pH
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 .(Jandaghi, 2005)
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 (2005) Jandaghi (2005)

/ ()
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 (1993) Khazaei & Koochaki .
 Rahnama &
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 (1995) Poori

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 .(Langat et al., 2003)

/ / (CP)
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 / / .()
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 .(Torabi, 1991) % % .()
 (WSC) %
 (1998) Carr et al.
 (1987) Tripathi et al.
)
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 .()
 % / C B (2004) Rahmani .
 (2004) Rahmani .
 (2004) Lauriault & Kirksey .
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 (*Pisum sativum* subsp. *arvense* L.)
 (*Triticum aestivum* L.)
 (*Triticosecale rimpaii* Wittm.)
 .(Lauriault & Kirksey, 2004)
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 .() % %
 (NDF)
 NDF (2004) Carr et al. .()

(1999) Redfeare, et al. (McAndrews et al., 2004)

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NDF

% / (C B) % +

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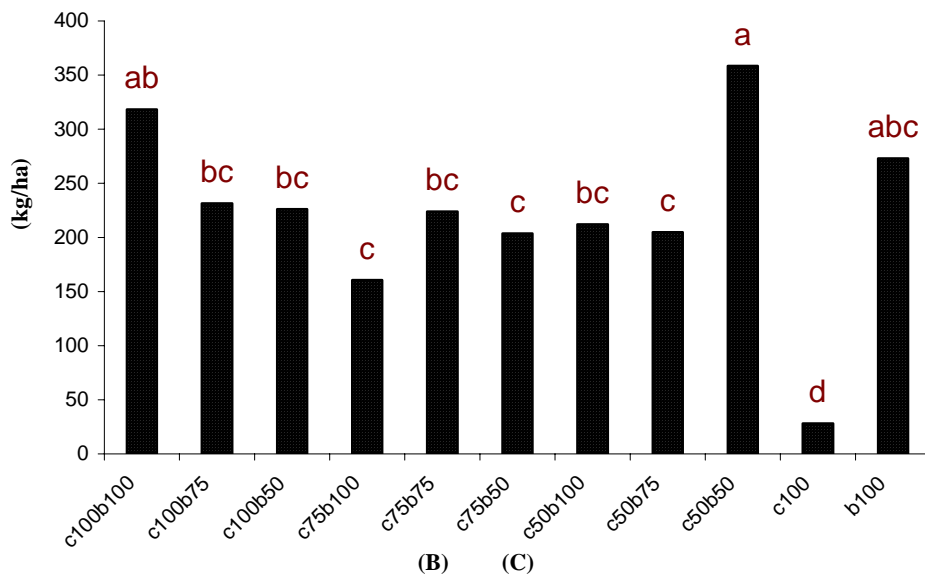
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(%) NDF

.(Sharifi, 2004)

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NDF



(B) (C)

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(TDN)	(ADF)	(NDF)	(CF)	(WSC)	(Ash)	(CP)		
/ cd	/ a	/ ab	/ a	/ a	/ bc	/ bcd	C	B
/ b	/ abc	/ b	/ ab	/ a	/ bcd	/ bc	C	B
/ bc	/ ab	/ ab	/ ab	/ a	/ ab	/ bc	C	B
/ a	/ abc	/ c	/ c	/ a	/ a	/ a		C
/ d	/ bc	/ ab	/ a	/ a	/ cde	/ e	C	B
/ cd	/ abc	/ ab	/ a	/ a	/ de	/ bcde	C	B
/ cd	/ abc	/ ab	/ ab	/ a	/ bc	/ b	C	B
/ d	/ cd	/ a	/ a	/ a	/ e	/ de	C	B
/ cd	/ abc	/ ab	/ a	/ a	/ bcd	/ cde	C	B
/ cd	/ abc	/ ab	/ bc	/ a	/ bcd	/ bcde	C	B
/ cd	/ d	/ a	/ a	/ a	/ bcde	e /		B

% % (ADF)

ADF

% % % % %
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(2004) Carr et al. .()

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(2004) Rahmani .()

ADF

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% % %

Beuselinck .()

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(1992) et al.

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ADF NDF

+

1. Acid Detergent Fiber

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