

()

(*Pyrus serotina* Rehd.)

*

(// : // :)

(*Pyrus serotina* Rehd.)

'KS8' 'KS7' 'KS6'

'KS14' 'KS13' 'KS12' 'KS11' 'KS10' 'KS9'
() " " (*Pyrus communis* L.)

%

%

'KS11' 'KS7' " "

" "

" "

'KS6' 'KS12' 'KS9'

" "

'KS7' " "

(Arzani, 2000a, 2000b; 2000c; 2001; 2003; 2004; 2005 & 2007)

(*Pyrus serotina*

Rehd.)

(Arzani, 2007)
(Koushesh-Saba et al., 2008)

(*Pyrus communis* L.)

'KS₈'

'Gold Nijisseiki'

'KS₁₃' 'KS₉'

'Kousui' 'Housui'

(Arzani et al., 2008,

Khoshghalb et al., 2007)

(Arzani, 2002a &

2002b; Bell et al., 1996 ; Veltman et al., 2003)

(Rossi et al., 1992)

"

"

'KS₁₄', 'KS₁₃',

'KS₁₂', 'KS₁₁', 'KS₁₀', 'KS₉', 'KS₈', 'KS₇', 'KS₆'

(*Pyrus communis* L.)

(*Cydonia oblonga* L.)

(Arzani, 2007)

'KS₈' 'KS₇' 'KS₆'

'KS₁₄' 'KS₁₃' 'KS₁₂' 'KS₁₁' 'KS₁₀' 'KS₉'

(Arzani, 2000a, 2000b & 2007)

(Arzani, 2000a,

2000b; 2002a & 2002b)

... :

(

(Emami, 1996)

() " "

(Jenway, U. K)

(Shimadzu, Japan) cm cm

SAS MINITAB MSTATC

(/ /)

T- test

:

" "

(Khoshghalb, 2001)

(')

'KS₉' / cm

() / cm

/ cm 'KS'₁₂

/ cm 'KS'₁₄

() / cm

() " "

'Guot' 'Xue- Hau-Li'

(Stanica, 2002)

$$= \frac{W_2 - W_1}{T_2 - T_1}$$

T₂ **T₁** **W₂** **W₁**

(AMS)

DELTA-T Mk₂

)

(Aung & Matta, 1992)

P. calleryana

'Seigyoku'

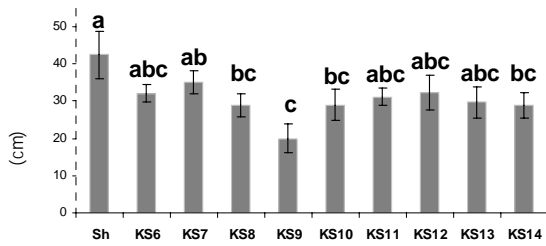
/ cm

'Yakami'

/ cm

.(Wertheim, 2002)

.(Arzani, 1996)



(Arzani, 2002a, 2002b, 2004 & 2005)

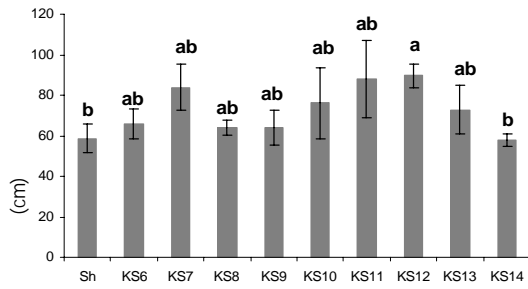
.(Wertheim, 2002)

(" " Sh)

/

/ 'KS₉'

.()



'KS₇'

" "

/ cm

() / cm

'KS₇'

.()

/ cm

/ cm

(" " Sh)

	pH	(EC/meter)	(%)	(%)	(%)	(%)
(cm)	/	/	/	/	/	/
(cm)	/	/	/	/	/	/
	(%)	(%)	(%)	(ppm)	(ppm)	(ppm)
(cm)	/	/	/	/	/	/
(cm)	/	/	/	/	/	/

... :

% / mm 'KS₁₁' :

/ mm 'KS₁₄'

'OHF'

(Larsen & Higgins, 1986)

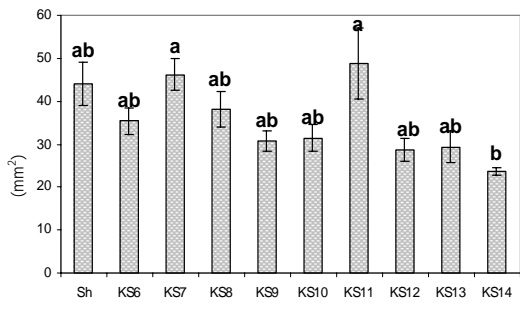
% 'Tsu-Li' % ()

'20th Century'

(Larsen & Higgins, .1997)

(Aung & Matta, 1992) " "

(Westwood et 'OHF' (Loreti, 2000) al., 1976)



(" " Sh)

%

×

% /

(Hartmann et al., 1990)

'KS'₆

AB

B

()	'KS' ₆	'KS' ₇	'KS' ₈	'KS' ₉	'KS' ₁₀	'KS' ₁₁	'KS' ₁₂	'KS' ₁₃	'KS' ₁₄
	/ a	/ ab	/ abc	abc	/ c	/ abc	/ abc	/ bc	/ abc
(cm ²)	/ c	abc	a	ab	bc	abc	bc	abc	bc
	/ a	/ a	a	/ a	/ a	/ a	/ a	/ a	/ a
	a	a	a	a	a	a	a	a	a

%

(Malakouti & % /
 .Tehrani, 2000)

'KS₁₄' 'KS₁₂' 'KS₁₁' 'KS₉'
 " "

(Shahabi & Malakouti, " "
 2000)

/ /

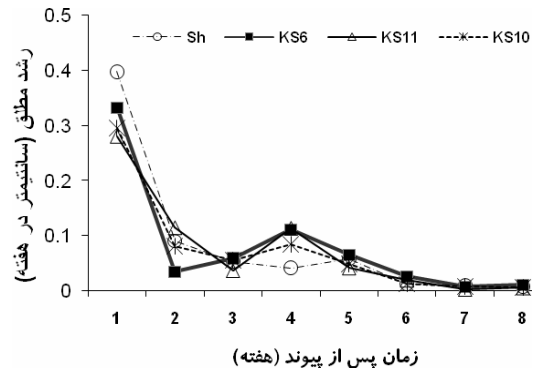
(Hunt, 1978)

'KS₉' / cm

% / 'KS₁₂' :
 % / 'KS₆' 'KS₁₀'
 % /
 ()

() mg kg⁻¹
 / / %
 " "

/
 .(Shahabi & Malakouti, 2000) /



(" " Sh)

% / 'KS₆' :
 % / " "
 ()

%
 () mg kg⁻¹

.(Malakouti & Tehrani, 2000)

'KS₉' :
 " " % /
 % / 'KS₁₁' 'KS₁₂'
 % / % /
 ()
 % / /

...

(Shahabi & Malakouti, / / .2000)

" "

% / 'KS₁₀' :
% /
()

() mg kg⁻¹
% / /

" "

'KS₁₁'
% / % /
()
() mg kg⁻¹
(Malakouti & Tehrani, % /
" " .2000)
(Shahabi & Malakouti, 2000)

() mg kg⁻¹
(Malakouti & Tehrani, 2000)

/ /

()	" "	'KS' ₆	'KS' ₇	'KS' ₈	'KS' ₉	'KS' ₁₀	'KS' ₁₁	'KS' ₁₂	'KS' ₁₃	'KS' ₁₄
(%)	/ d	/ b	bcd	/ cd	/ a	/ b	/ b	/ b	bcd	/ b
(%)	/ e	/ b	b	/ cd	/ b	/ d	/ a	/ a	/ cd	b
(%)	/ ab	/ bc	/ bc	/ bc	/ bc	/ c	/ ab	/ a	/ bc	/ bc
(%)	/ a	/ a	/ a	/ a	/ a	/ a	/ a	/ a	/ a	/ a
(%)	/ h	a	/ e	/ c	/ d	/ e	/ f	/ b	/ g	/ d
(%)	/ a	a	/ a	/ a	/ a	/ a	/ a	/ a	/ a	/ a
(%)	/ a	/ a	/ a	/ a	/ a	/ a	/ a	/ a	/ a	/ a
(%)	/ g	/ de	/ f	/ e	/ c	/ b	/ a	/ de	/ f	/ d
(%)	/ f	/ cd	/ de	/ ab	/ ab	/ a	/ a	/ ab	/ ef	/ a
(%)	/ a	/ a	/ a	/ a	/ a	/ a	/ a	/ a	/ a	/ a
(ppm)	/ a	a	/ b	b	b	b	b	/ b	/ b	ab
(ppm)	a	a	a	a	a	a	a	a	a	a
(ppm)	a	bc	c	a	a	bc	bc	ab	ab	ab
(ppm)	a	b	c	a	a	bc	b	b	ab	b

*

%

'KS₁₄'

'KS₁₁'

.(Childers et al., 1995)

ppm

'KS₁₂'

/ ppm

/ ppm

'KS₁₂'

.()

'KS₉'

'KS₆'

'KS₁₂'

" "

'KS₇' " "

" "

.(Shahabi & Malakouti, 2000)

() mg kg⁻¹

ppm

.(Malakouti & Tehrani, 2000)

(*Pyrus serotina* Rehd.)

() " "

(%)

%

()

)

'KS₉'

'KS₁₂'

(

'KS₉'

'KS₁₃'

'KS₇'

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