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*(Festuca arundinacea)*

( // : // : )

*(Festuca arundinacea)*

G8 G6 G4 G2 G1

/

*(Festuca arundinacea L.)*

( n= x= ) ( n= x= )

*F. arundinacea*

(Gaute et al., 2000)

(Abdul-Baki & Anderson, 1973)

(*F. arundinacea*) (Roufmian et al., 2002)

(Malay et al., 2004)

*F. arundinacea*

(Ghahraman, 1994)

*F. elatior* ( n= x= )

(Hubbard, 1980)

(Nguyen & Sleper, 1983; Elgersma, 1990)

(Hannaway et

(Pater & Martinelli,

al., 1999)

.1989; Humphreys, 1991)

(Hafenrichter et al.,

.1968)

*F. arundinacea*

(Veroesi

& Falcinelli, 1983)

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3. *Dactylis glomerata*

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1. *Festuca*  
2. Tall Fescue

(N)

P<sub>2</sub>O<sub>5</sub>

(*F. arundinacea*)

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( )

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G1	IRE 5,11,3	G13	F.A.O. 1346
G2	IRE FESTORINA	G14	Netherland 1610
G3	IRE LUBRETTE	G15	Australia 1414
G4	IRE DOVEY	G16	Alborz 1467
G5	IRE AB1	G17	Israel 1081
G6	IRE A 2210	G18	Holland 1768
G7	Sirachal 310	G19	1061 Belgium
G8	Seed-Ins VII	G20	Australia 1418
G9	Gorgan1 602	G21	Australia 1417
G10	Seed-Ins VIII	G22	Australia 1420
G11	Sanandaj 627	G23	California 0.078
G12	U.S.A. 1269	G24	U.S.A. 1152

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(Steel & Torrie, 1980)

(Montgomery, 2002) MSTATC

14

(Fry, 1993) Minitab

SPSS 14 Minitab 14

(Jackson, 1991; Casler, 1995; Srivastava, 2002)

(Rohlf, 1994)

Veroesi & Falcinelli .

(1983)

( )  
G9 G8 G7 G6 G4

$$\begin{aligned}
 ( ) \quad T_i, \frac{\sum T_i N_i}{S} = & \dots \\
 N_i & \\
 S ( ) & \\
 \dots (Scott et al., 1984) & \\
 n_i \cdot \sum_{i=1} \frac{n_i}{D_i} = & \dots \\
 D_i & \\
 \dots (Agrawal, 1992) & \\
 \times = & \dots \\
 (Abdul-Baki & Anderson, \frac{1}{100} \times \dots 1973)
 \end{aligned}$$

- 
1. Euclidean Distance
  2. Ward method
  3. NTSYS 2/02e
  4. Accession

( )

(±SE)

/ ± / ab	/ ± / abc	/ ± / a	/ ± / a	/ ± / d-g	/ ± / d-f	/ ± / d-i	/ ± / a-c	G1
/ ± / g-i	/ ± / gh	/ ± / ab	/ ± / a-e	/ ± / e-g	/ ± / a-c	/ ± / f-k	/ ± / a-c	G2
/ ± / a-c	/ ± / abc	/ ± / ab	/ ± / c-f	/ ± / fg	/ ± / d-f	/ ± / e-j	/ ± / e-h	G3
/ ± / a	/ ± / a-c	/ ± / a	/ ± / a-c	/ ± / c-f	/ ± / bc	/ ± / e-j	/ ± / a	G4
/ ± / a-d	/ ± / a-c	/ ± / a	/ ± / ab	/ ± / g	/ ± / d-g	/ ± / g-k	/ ± / a-e	G5
/ ± / e-i	/ ± / gh	/ ± / a	/ ± / ab	/ ± / e-g	/ ± / de	/ ± / c-g	/ ± / ab	G6
/ ± / g-i	/ ± / gh	/ ± / a	/ ± / a-e	/ ± / a-c	/ ± / bc	/ ± / ab	/ ± / a-d	G7
/ ± / ab	/ ± / a	/ ± / a	/ ± / a-d	/ ± / a-c	/ ± / a	/ ± / a-e	/ ± / a	G8
/ ± / a-c	/ ± / ab	/ ± / a	/ ± / b-e	/ ± / b-d	/ ± / ab	/ ± / b-g	/ ± / a-d	G9
/ ± / b-f	/ ± / f-h	/ ± / b	/ ± / i	/ ± / e-g	/ ± / cd	/ ± / e-j	/ ± / g-j	G10
/ ± / b-f	/ ± / b-d	/ ± / a	/ ± / a-d	/ ± / fg	/ ± / d-f	/ ± / h-k	/ ± / c-f	G11
/ ± / b-e	/ ± / a-c	/ ± / a	/ ± / f-h	/ ± / a-c	/ ± / de	/ ± / ab	/ ± / e-i	G12
/ ± / a-d	/ ± / a-c	/ ± / b	/ ± / g-i	/ ± / e-g	/ ± / e-g	/ ± / h-k	/ ± / ijk	G13
/ ± / d-h	/ ± / e-h	/ ± / a	/ ± / c-g	/ ± / ab	/ ± / b-d	/ ± / a-c	/ ± / b-f	G14
/ ± / ab	/ ± / b-d	/ ± / ab	/ ± / d-h	/ ± / d-g	/ ± / efg	/ ± / e-j	/ ± / g-j	G15
/ ± / a-e	/ ± / a-c	/ ± / ab	/ ± / hi	/ ± / c-f	/ ± / de	/ ± / b-f	/ ± / f-i	G16
/ ± / i	/ ± / h	/ ± / ab	/ ± / d-h	/ ± / b-e	/ ± / def	/ ± / b-f	/ ± / f-i	G17
/ ± / i	/ ± / gh	/ ± / a	/ ± / d-h	/ ± / a	/ ± / cd	/ ± / a	/ ± / c-g	G18
/ ± / d-g	/ ± / b-e	/ ± / a	/ ± / fgh	/ ± / a-c	/ ± / d	/ ± / a-d	/ ± / d-g	G19
/ ± / ab	/ ± / a	/ ± / ab	/ ± / d-h	/ ± / c-f	/ ± / e-g	/ ± / e-j	/ ± / g-j	G20
/ ± / hi	/ ± / d-g	/ ± / c	/ ± / ghi	/ ± / g	/ ± / g	/ ± / k	/ ± / k	G21
/ ± / i	/ ± / gh	/ ± / b	/ ± / d-h	/ ± / g	/ ± / g	/ ± / jk	/ ± / k	G22
/ ± / a-d	/ ± / ab	/ ± / a	/ ± / d-h	/ ± / g	/ ± / fg	/ ± / i-k	/ ± / ijk	G23
/ ± / f-i	/ ± / c-f	/ ± / ab	/ ± / efg	/ ± / fg	/ ± / fg	/ ± / h-k	/ ± / h-k	G24

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(±SE)

/ ± / fg	/ ± / J	/ ± / ab	/ ± / a-d	/ ± / a	/ ± / hijk	/ ± / a-e	G1
/ ± / ab	/ ± / cdef	/ ± / a-c	/ ± / ab	/ ± / a-d	/ ± / def	/ ± / ghi	G2
/ ± / abc	/ ± / abcd	/ ± / c-g	/ ± / d-h	/ ± / b-d	/ ± / hijk	/ ± / b-g	G3
/ ± / i	/ ± / k	/ ± / c-e	/ ± / a-c	/ ± / b-d	/ ± / a	/ ± / bcde	G4
/ ± / efg	/ ± / bcde	/ ± / b-d	/ ± / a	/ ± / ab	/ ± / ijk	/ ± / abc	G5
/ ± / c-g	/ ± / abcd	/ ± / a	/ ± / a	/ ± / ab	/ ± / m	/ ± / fghi	G6
/ ± / c-g	/ ± / d-h	/ ± / a-c	/ ± / c-g	/ ± / ab	/ ± / ijkl	/ ± / hi	G7
/ ± / fg	/ ± / ghij	/ ± / b-d	/ ± / b-e	/ ± / a-c	/ ± / efg	/ ± / ab	G8
/ ± / fg	/ ± / ghij	/ ± / cd	/ ± / c-f	/ ± / a-c	/ ± / de	/ ± / a	G9
/ ± / a	/ ± / abcd	/ ± / jk	/ ± / e-i	/ ± / d	/ ± / klm	/ ± / c-h	G10
/ ± / h	/ ± / ijk	/ ± / cde	/ ± / b-e	/ ± / a-d	/ ± / bc	/ ± / abc	G11
/ ± / b-g	/ ± / f-j	/ ± / f-i	/ ± / ij	/ ± / a-d	/ ± / jkl	/ ± / a-f	G12
/ ± / defg	/ ± / d-i	/ ± / e-g	/ ± / j	/ ± / cd	/ ± / abc	/ ± / abcd	G13
/ ± / bcde	/ ± / abc	/ ± / f-i	/ ± / e-i	/ ± / a-d	/ ± / efg	/ ± / d-i	G14
/ ± / a	/ ± / abcd	/ ± / i-k	/ ± / h-j	/ ± / a-d	/ ± / f-i	/ ± / a-e	G15
/ ± / efg	/ ± / e-i	/ ± / e-g	/ ± / h-j	/ ± / d	/ ± / jkl	/ ± / abcd	G16
/ ± / abcd	/ ± / ab	/ ± / k	/ ± / ij	/ ± / a-d	/ ± / ghij	/ ± / ghi	G17
/ ± / b-f	/ ± / bcde	/ ± / i-k	/ ± / g-i	/ ± / d	/ ± / ghi	/ ± / e-i	G18
/ ± / efg	/ ± / e-i	/ ± / f-j	/ ± / f-j	/ ± / a-d	/ ± / hijk	/ ± / b-f	G19
/ ± / abc	/ ± / abcd	/ ± / g-k	/ ± / j	/ ± / cd	/ ± / abc	/ ± / abc	G20
/ ± / abcd	/ ± / defg	/ ± / g-k	/ ± / k	/ ± / d	/ ± / ab	/ ± / d-i	G21
/ ± / abcd	/ ± / a	/ ± / h-k	/ ± / ij	/ ± / b-d	/ ± / lm	/ ± / i	G22
/ ± / h	/ ± / hij	/ ± / d-g	/ ± / g-j	/ ± / cd	/ ± / cd	/ ± / a	G23
/ ± / g	/ ± / e-i	/ ± / h-k	/ ± / j	/ ± / d	/ ± / bc	/ ± / c-h	G24

G5 G4 G2 G1

G11 G8 G6

G8 G6 G4 G2 G1

(Y1)

(X3) (X2) (X1)

$$Y1 = \frac{1}{10} + \frac{1}{10} * X1 + \frac{1}{10} ** X2 + \frac{1}{10} *** X3$$

$$R^2 = \frac{1}{10}$$

(Y2)

(X1) /  
 (X3) (X2)  
 : (X4) ( )

$$Y2 = \frac{1}{10} + \frac{1}{10} *** X1 + \frac{1}{10} *** X2 + \frac{1}{10} *** X3 + \frac{1}{10} * X4$$

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1. Synthetic





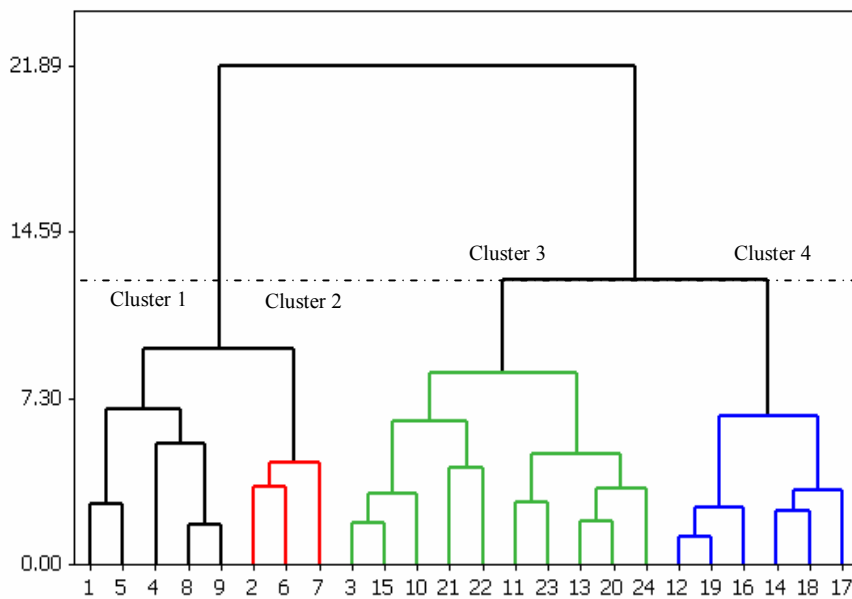


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		۴/۳۰
	۵/۴۲	۵/۲۶
۳/۴۲	۴/۵۲	۵/۲۰

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(*F. arundinacea*)



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