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Archive of SID

Ritchie)

(and Mc Henry, 1990; Walling and Quine, 1993

(Zapata, 2003)

Ritcheie and Mc Henry, 1990; Walling and)

(Quine, 1990b; Ronggui and Tiessen, 2002

/

Rogowski and Tamura

(/ * /)

ayoubi@cc.iut.ac.ir :

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()

() Andreello et al.

(PM)

(MBM2)

(MBM1)

() Hassouni and Bouhlassa

()

() Sac et al.

Wang et al.

()

Calcic Chromoxerets Typic Haploxerolls
(Ministry of Agriculture, 1988)

() Ritchie et al.

() Kalhor

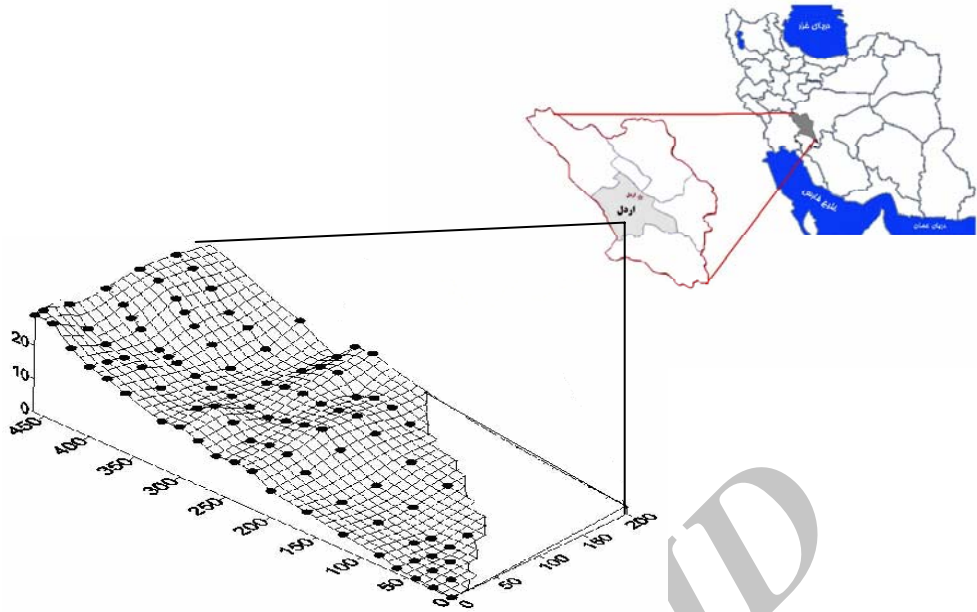
() Asadi et al.

() Honarjo et al.

() (*Mucronata sp*) (*Astragalus sp*)

)

(



(Zhang et al., 1990)

$$Y = 10BD \left[1 - \left(1 - \frac{X}{100} \right)^{1/(t-1963)} \right] \quad (1)$$

Y
 t-1963
 B
 D
 X

MBM2 MBM1 PM
 () Walling and He

$$X = \left(1 - \frac{A}{A_{ref}} \right) \times 100 \quad (2)$$

(Day, 1982)

A A_{ref}
 (Bq m⁻²)

$$R = A - A_{ref} \int_{1963}^t C_d(t') e^{-\lambda(t-t')} dt' \quad (3)$$

$$\lambda = \frac{\ln(2)}{30.17} \quad (4)$$

λ R

C_d(t') /

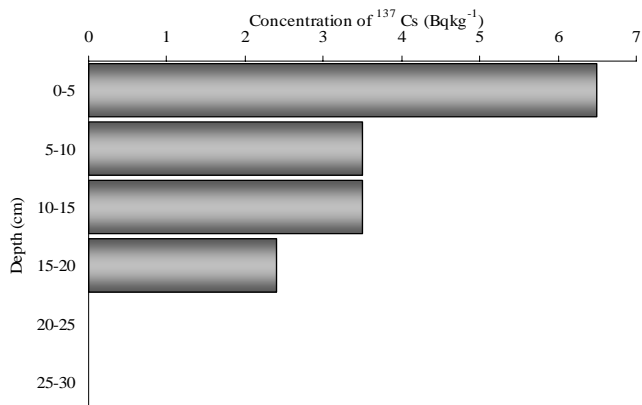
t'



MBM1

(Zhang et al., 1990)

- MBM1



$$\frac{dA(t)}{dt} = (1 - \Gamma)I(t) - \left(\lambda + \frac{R}{d}\right)A(t) \quad (1)$$

$$R \text{ Bq m}^{-2} \quad A(t)$$

$$I(t) \quad \lambda$$

$$\Gamma$$

$$R' = \frac{A_{ex}}{\int_{t_0}^t C_d(t') e^{-\lambda(t-t')} dt'} \quad (2)$$

$$R'$$

$$A_{ex}$$

$$C_d(t')$$

$$\text{Walling and) (Bq kg}^{-1}$$

(Quine, 1990a; Walling and He, 1999

PM

$$Y = 10BDX / 100T \quad (3)$$

$$Y$$

$$B$$

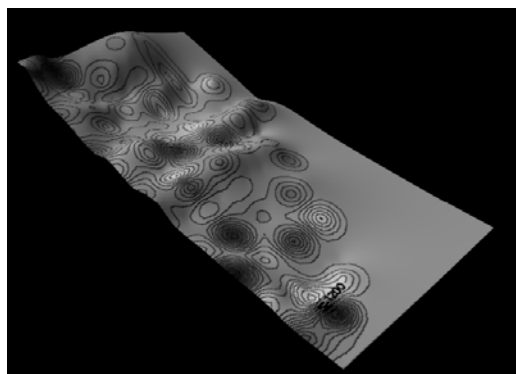
$$D$$

$$X$$

$$T$$

Walling and Quine, 1990a; Walling and)

(He, 1999



MBM2

() Morgan

() Sac et al. .

() Jalalian et al. .

(shoulder)

() Theocharopoulos et al. .

/ / / /

() Hrachowitz et al. .

PM

(back slope)

MBM1

MBM1

PM

(foot slope)

()
MBM1 PM

MBM1 PM

MBM2

PM

MBM1

() Mabit et al.

/

MBM2	MBM1	PM	(t ha ⁻¹ yr ⁻¹)
/	/	/	(t ha ⁻¹ yr ⁻¹)
()			(%)
/	/	/	PM
/	/	/	MBM1 (t ha ⁻¹ yr ⁻¹)

(Jalalian et al.,1996)

() Jalalian et al.

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(Pin)

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