

()

(Vigna unguiculata)

(Sorghum bicolor)

*

(/ / : // :)

) (D3) (D2) (D1) .
 / /
 (M2) / (M1) (/ (M5) / (M4) / (M3) /
 . (/ / /

/) / .(p<0.01) /
 (/) (/) /
 / / (D1M2)

:

()

)

()

(

.() ()
% % ()

.()

()

()

/

)

()

(

/

()

/ /

()

()

.()

()

()

/

/

()

)

(...

/

.()

... :

(Sandy loam)

$$) \quad (\quad (D3) \quad (D2) \quad (D1) \quad / \quad)$$

$$/ \quad /$$

$$(\quad) \quad /$$

$$(\quad (M2) \quad / \quad (M1) \quad / \quad (M5) \quad / \quad (M4) \quad / \quad (M3) \quad / \quad (\quad /$$

$$(\quad / \quad) \quad /$$

(RCC)

(LER)

(A)

$$(\quad + \quad + \quad)$$

$$) \quad (\quad)$$

$$(\quad / \quad / \quad)$$

$$(\quad)$$

$$(\quad + \quad)$$

$$/$$

$$(\quad) \quad (\quad) \quad (\quad)$$

$$(\quad) \quad (\quad)$$

-
1. Relative crowding coefficient
 2. Aggressivity
 3. Land equivalent ratio

(RCC)

()

K_C K_S

RCC

RCC

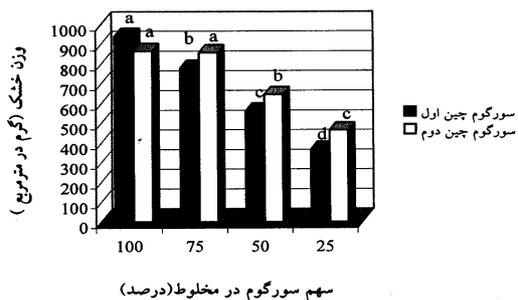
(D_1M_2)

(/) /

/

(D_3M_2)

/



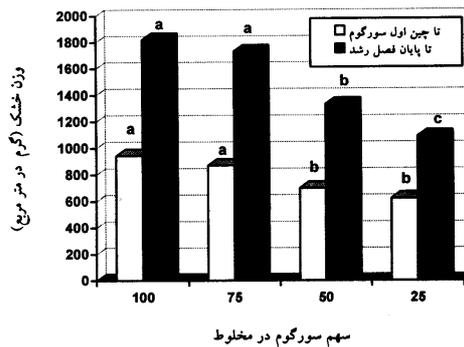
(K_C)

(K_S)

C_4

()

(K_S)



/	/	/	/
/	/	/	/
/	/	/	/
/	/	/	/
/	/	/	/

*

...

:

(/)

()

/ a	/ a	/ a	/ a	/ a	
/ a	/ a	/ a	/ a	/ a	
/ a	/ a	/ a	/ a	/ a	
/ a	/ a	/ a	/ a	d	/
/ a	/ a	/ a	/ b	/ c	/
/ b	/ b	/ b	/ c	/ c	/
/ c	/ b	/ c	/ d	/ b	/
/ d	/ b	d	c	/ a	/

(RCC)

/

(/ /) D₃M₂

RCC	Kc	Ks	
/	/	/	D ₁ M ₂
/	/	/	D ₁ M ₃
/	/	/	D ₁ M ₄
/	/	/	D ₂ M ₂
/	/	/	D ₂ M ₃
/	/	/	D ₂ M ₄
/	/	/	D ₃ M ₂
/	/	/	D ₃ M ₃
/	/	/	D ₃ M ₄

(A)

()

/ /) D₁M₂ (

()

D₁M₂

) ((() ()

/ / / / / / / /

(A)

/

()

) C₃

() C₄ (

/	/	D ₁ M ₂
/	/	D ₁ M ₃
/	/	D ₁ M ₄
/	/	D ₂ M ₂
/	/	D ₂ M ₃
/	/	D ₂ M ₄
/	/	D ₃ M ₂
/	/	D ₃ M ₃
/	/	D ₃ M ₄

(LER)

()

LER

()

()

()

()

/

(D₁M₂)

(/)

()

()

(

/

(LER)

(RY)

/

/

LER	RYc	RYs	
/	/	/	D ₁ M ₂
/	/	/	D ₁ M ₃
/	/	/	D ₁ M ₄
/	/	/	D ₂ M ₂
/	/	/	D ₂ M ₃
/	/	/	D ₂ M ₄
/	/	/	D ₃ M ₂
/	/	/	D ₃ M ₃
/	/	/	D ₃ M ₄

(/)

/) /

(

REFERENCES

- ()
13. Agrawal, P. K. , D. P. Garrity, S. P. liboon, & R. A. Marris. 1992. Resource use and Plant interactions in a rice-mungbean intercrop. *Agronomy Journal*. 84: 71-78.
 14. Carruthers, K. , B. Prithiviraj, Q. Fe, D. Cloutier, R. C. Martin, & D. L. Smith. 2000. Intercropping corn with soybean, lupine and forage yield component responses. *European Journal of Agronomy*, 12: 103-115.
 15. Li, L., J. Sun, F. Zhang, X. Li, S. Yang, & Z. Rengel. 2001. Wheat/maize or wheat/soybean strip intercropping, I. Yield advantage and interspecific interactions on nutrients. *Field Crops Research*, 71: 123-137.
 16. Mutungamiri, A., I. K. Margia, & O. A. Chivinge. 2001. Evaluation of maize (*Zea mays* L.) cultivars and density for dryland maize-bean intercropping. *Tropical Agriculture*, 78(1) 8-12.
 17. Natarajan, M. & R. W. Willey. 1980. Sorghum-pigeon pea intercropping and the effect of plant population Density, 1. Growth and yield. *Journal of Agriculture Science*, 95:51-58.
 18. Nyambo, D. B. , T. Matimati, A. L. Komba, & R. K. Jane. 1980. Influence of plant combinations and planting configurations on three cereals (Maize, Sorghum, Millet) intercropped with two Legumes (Soybean, Green-grams). *Intercropping (Proceedings of the second symposium on intercropping in semi-arid area, Morogoro, Tanzania)*, P. 56-63.
 19. Tripathi, S. N. , A. P. Singh, & A. S. Gill. 1987. Forage production in sole and mixed stands of Cereals and Legumes under summer condition. *Indian Journal of Agronomy*, 32(3):545-547.