

()

//

()

)

(

:

.()

()

.()

-
1. Integrated weed management
 2. Critical period of weed control

:

Ipomoea

()

hederca

()

|

(|)

(|)

(|)

(|)

|

()

()

()

()

()

()

()

()

()

()

)

()

(

:

()

()

)

)

(

(

)

()

)

(

()

()

(

)

()

(

/

)

)

(

()

(

(

)

)

()

()

(

/

1. Weed infested

2. Weed free

) ()
 () ()

$$Y=A*\exp(-b*\exp(-k*t))$$

Y ()
 A . ()
 K B ()
 t

$$GDD=(T_{max}+T_{min})/2-T_b$$

() () T_b
 ()

$$Y=((1/(D*\exp(K(t-X))+F))+((F-1)/F))*100$$

X F K D Y
 t (/ *) /

SAS

()

/ e	c
/ de	c
de	c
/ cd	c
/ bc	c
b	b

:

/ a
/

LSD(0.05)

a
/

LSD(0.05)

/

/

/ /

()

)

(

/

()

()

<i>Cynodon dactylon</i> L.	*	<i>Cyperus rotundus</i> L.	*
<i>Cyperus rotundus</i> L.		<i>Amaranthus blitoides</i> L.	*
<i>Sorghum halepense</i>		<i>Convolvulus arvensis</i> L.	
<i>Amaranthus chlorostachys</i> L.	*	<i>Chrozophora tintoria</i>	
<i>Solanum nigrum</i>	*	<i>Cynodon dactylon</i> L.	*
<i>Abutilon theophrasti</i>		<i>Xanthium stramarium</i> L.	
<i>Datura stramonium</i> L.		<i>Chenopodium album</i> L.	
<i>Chenopodium album</i> L.	*	<i>Solanum nigrum</i>	
<i>Convolvulus arvensis</i> L.		<i>Abutilon theophrasti</i>	

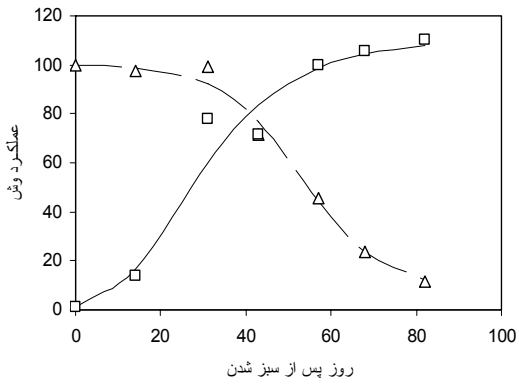
*

R ²	X	F	K	D	(GDD)
/	/	/	/	/	
/		/	/	/	
/	/	/	/	/	
/	/	/	/	/	

$$Y = \left(\frac{1}{D \cdot \exp(K \cdot (T - X)) + F} \right) + \left(\frac{F - 1}{F} \right) \cdot 100$$

T X F K D () Y

R ²	K	B	A	(GDD)
/	/	/	/	
/	/	/	/	
/	/	/	/	



()

()

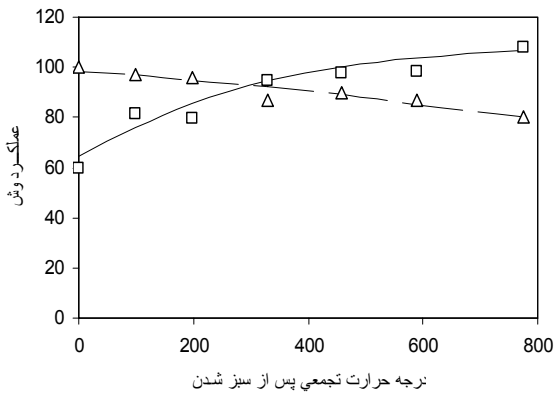
()

()

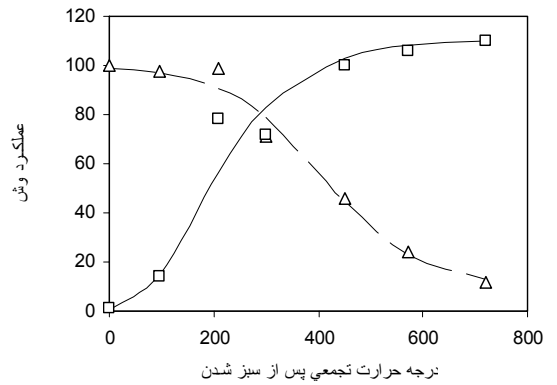
()

()

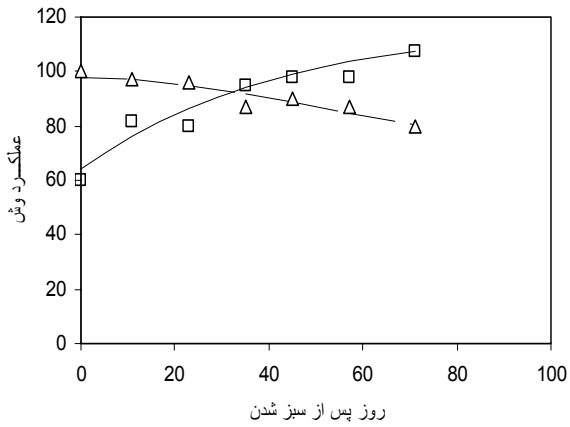
()



(



(



(

REFERENCES

2. Burnside, O. C., M. J. Wiens, B. J. Holder, S. Weisberg, E. A. Ristau, M. M. Johnson, & J. H. Cameron. 1998. Critical periods for weed control in dry beans (*Phaseolus vulgaris* L). *Weed Sci.* 46: 301-306.
3. Evans, S. P., S. Z. Knezevic, J. L. Lindquist, C. A. Shapiro & E. E. Blankenship. 2003. Nitrogen application influences the critical period for weed control in corn. *Weed. Sci.* 51: 408-417.
4. Eyherabide, J. J., & M. G. Cendoya. 2002. Critical periods of weed control in soybean for full field and in-furrow interference. *Weed Sci.* 50: 162-166.
5. Halford, C., A. S. Hamili, J. Zhang., & C. Poucet. 2001. Critical period of weed control in no-till soybean and corn. *Weed Technol.* 15: 737-744.
6. Hall, M. R., C. J. Swanton., & G. W. Anderson. 1992. The critical period of weed control in grain corn. *Weed Sci.*40: 441-447.
7. Harker, K. N., R. E. Blackshaw, & G. W. Clayton. 2001. Timing weed removal in field pea (*Pisum sativum*). *Weed Technol.* 15: 277-283.
8. Keeley, P. E., & R. J. Thullen. 1983. Influence of Yellow Nutsedge (*Cyperus esculentus*) free periods on yield of cotton. *Weed Sci.* 31: 803-807.
9. Knezevic, S. Z., S. P. Evans, E. E. Blankenship, R. C. Van Aker, & J. L. Lindquist. 2002. Critical period for weed control: the concept and data analysis. *Weed Sci.* 50: 773-786.
10. Martin, S. G., R. C. Van Aker, & L. F. Friesen. 2001. Critical period of weed control in spring canola. *Weed Sci.* 49: 326-333.
11. Michael, A. J., & R. Wells. 1998. Fiber yield and quality of cotton grown at two divergent population densities. *Crop Sci.*38: 1190-1195.
12. Mulugeta, D., & C. M. Boerboom. 2000. Critical times of weed removal in glyphosate-resistant *Glycine max*. *Weed Sci.* 48: 35-42.

13. Ngouajio, M., J. Foko, & D. Fouejio. 1997. The critical period of weed control in common bean (*Phaseolus vulgaris* L.) in Cameroon. *Crop Protection*. 16: 127-133.
14. Rogers, J. B., D. S. Murray, L. M. Verhalen, & P. L. Claypool. 1996. Ivyleaf Morningglory (*Ipomoea hederacea*) interference with cotton. *Weed Technol.* 10: 107-114.
15. Swanton, C. J., & S. F. Weise. 1991. Integrated weed management: the rational and approach. *Weed Technol.* 5: 648-656.
16. Van Aker, R. C., S. F. Weise, & C. J. Swanton. 1993. The critical period of weed control in soybean. *Weed Sci.* 41: 194-200.
17. Weaver, S. E., & C. S. Tan. 1987. Critical period of weed interference in transplanted tomatoes and its relation to water stress and shading. *Can J Plant Sci.* 67: 575-583.
18. Weaver, S. E., M. J. Kropff, & R. M. W. Groeneveld. 1992. Use of ecophysiological models for crop-weed interference: the critical period of weed interference. *Weed Sci.* 40: 302-307.