

()

*

(/ / : / / :)

) ()

(

.(Buhler, 2002)

.(Buhler et al., 2000)

.(Wyse,1994)

() .(Mitchell, 1998; Wyse, 1992; Gressel, 1992)

+

 +

 +

 .

 +

 (

 -

 .

 (

 .

(Ackley et al., 1996a; Vereijken & Vanloon,
 .1991)

.(Van Gessel & Renner, 1990)
(2001) Bailey et al.

· / / pH

$$\left(\quad + \quad / \quad \left(\quad \right) \quad + \quad \right) \quad \text{(Eberlein et al., 1997)}$$

(Monaco et al., 2002)
(2003) Khaliq & Imran

.(Eberlein et al., 1997)

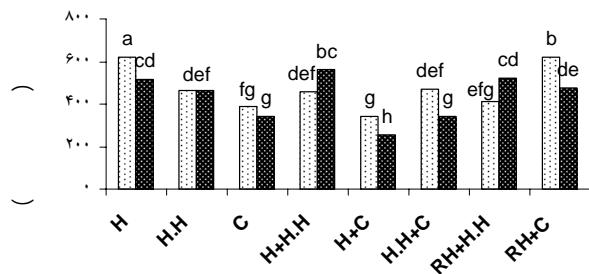
()

: (Wall & Friesen, 1990b)
 $(X+0/5)^{1/2}$

()

X

■ ■



H)

+ H+H.H C H.H
 + H.H+C + H+C
 RH+C + RH+H.H

(+

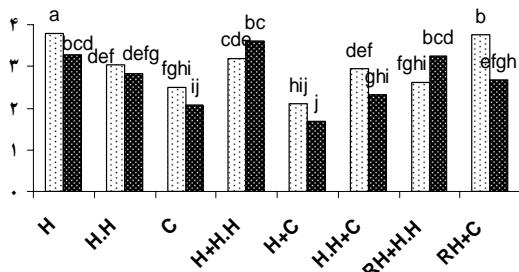
()

.(Bailey et al., 2001)

Mstatc

Excel

■ ■



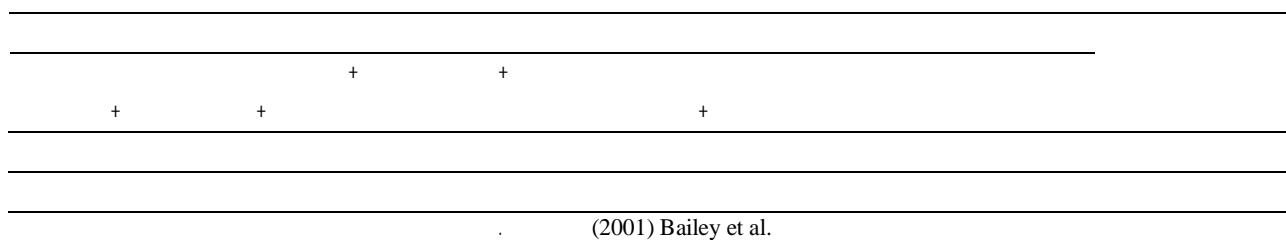
H)

H+C + H+H.H C H.H
 RH+H.H + H.H+C + H+C
 RH+C + RH+H.C

()

+

+



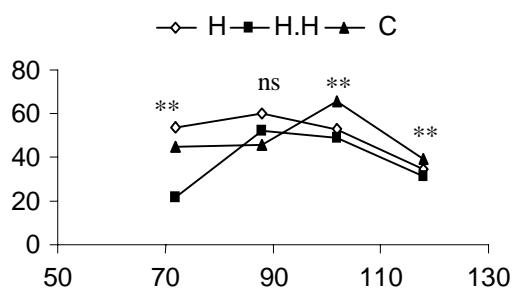
(2001) Bailey et al.

(Bailey et al., 2001)

()

(2000) Bellinder et al.

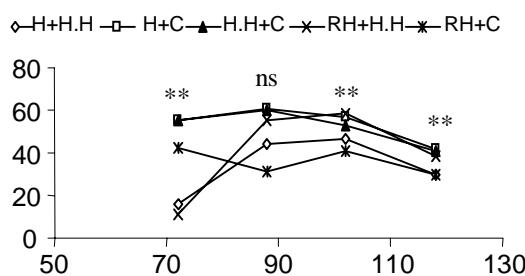
()



()

(1989) Wallace & Bellinder

()



+ +

H)

(C H.H
H+C + H+H.H
RH+H.H + H.H+C
(+ RH+C +

(2003) Wiltshire et al. ()

)
 (Melender & Rasmussen, 2001) (()

()

+ (2000) Bellinder et al. ()

(1999) Rajalahti et al. ()

+ + ()

+ + ()

+ + + + Harker et al. () (2003)

+ + +)

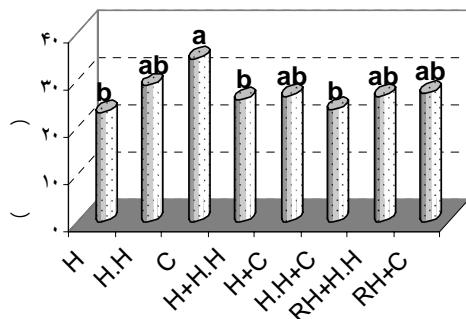
(2001) Melender & Rasmussen

$\mid bc$	$\mid abc$	$\mid c$	$\mid abc$.
$\mid c$	$\mid abc$	$\mid ab$	$\mid abc$.
$\mid abc$	$\mid a$	$\mid a$	$\mid cd$.
$\mid c$	$\mid abc$	$\mid c$	$\mid bcd$	+
$\mid bc$	$\mid abc$	$\mid bc$	$\mid abc$	+
$\mid c$	$\mid abc$	$\mid abc$	$\mid a$	+
$\mid c$	$\mid ab$	$\mid bc$	a	+
$\mid bc$	$\mid bcd$	$\mid bc$	$\mid d$	+

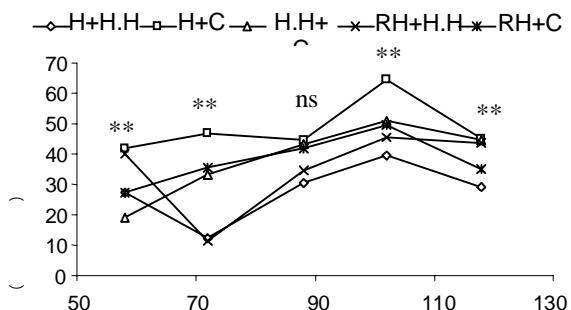
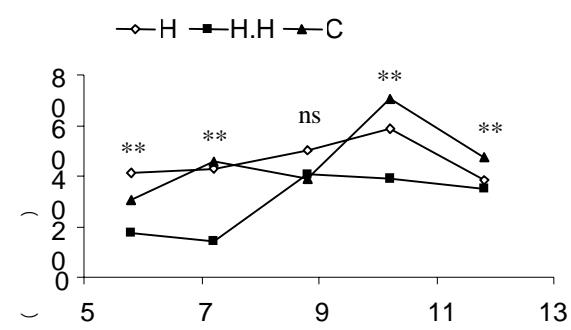
(Rezai & Soltani,
1997)

(1990) Wall & Friesen

(1999) Rajalahti et al.



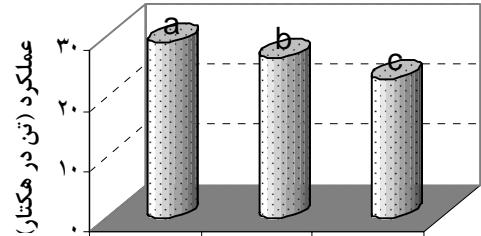
C H.H H)
H+C + H+H.H
RH+H.H + H.H+C +
RH+C +



(C H.H H)
H+C + H+H.H +
RH+H.H + H.H+C +
H +
(+ /)
() + +
() (/ / /)
(2001) Bailey et al

(1989) Wallace & Bellinder

(1997) Eberlein et al.



(2001) Bailey et al. .

()

()

()	()	
	ab		bc	
	ab		ab	
b		a		
a		ab		+
a		ab		+
b		c		+
ab		bc		+
ab		bc		+
b		c		
ab		abc		
b		a		
b		c		+
ab		bc		+
ab		bc		+
ab		abc		+
a		ab		+

REFERENCES

1. Ackley, J. A., Wilson, H. P. & Hines, T. E. (1996). Weed management programs in potato (*Solanum tuberosum*) with rimsulfuron. *Weed Technology*, 10, 354-358.
2. Bailey, W. A., Wilson, H. P. & Hines, T. E. (2001). Influence of cultivation and herbicide programs on weed control and net returns in potato (*Solanum tuberosum*). *Weed Technology*, 15, 654-659.
3. Bellinder, R. R., Kirkwyland, J. J., Wallace, R. W. & Colquhoun, J. B. (2000). Weed control and potato (*Solanum tuberosum*) yield with banded herbicides and cultivation. *Weed Technology*, 14, 30-35.
4. Buhler, D. D., Liebman, M. & Obrycki, J. J. (2000). Theoretical and practical challenges to an IPM approach to weed management. *Weed Science*, 48, 274-280.
5. Buhler, D. D. (2002). 50th Anniversary-Invited article: challenges and opportunities for integrated weed management. *Weed Science*, 50, 273-280.
6. Eberlein, C. V., Patterson, P. E., Guttieri, M. J. & Stark, J. C. (1997). Efficacy and economics of cultivation for weed control in potato (*Solanum tuberosum*). *Weed Technology*, 11, 257-264.
7. Gressel, J. (1992). Addressing real weed science needs with innovations. *Weed Technology*, 6, 509- 525.
8. Harker, K. N., Chlayton, G. W., Blachshaw, R. E., Donovan, J. T. & Stevenson, F. C. (2003). Seeding rate, herbicide timing and competitive hybrids contribute to integrated weed management in canola (*Brassica napus*). *Plant Science*, 83, 432-440.
9. Khaliq, A., Ali, K. & Imran, M. (2003). Integrated weed management in wheat grown in irrigated areas. *International Journal Agriculture Biology*, 5, 530- 532.
10. Melender, B. & Rasmussen, G. (2001). Effects of cultural methods and physical weed control on interarow weed numbers, manual weeding and marketable yield in direct-sown leek and bulb onion. *Weed Research*. 42, 491-508.
11. Mitchell, B. J. (1998). *Reduced herbicide inputs in cereals*. Crop Research Center, Oak Park, Carlow.
12. Monaco, T. J., Weller, S. C. & Ashton, F. M. (2002). *Weed science (principles and practices)*. John Wiley and Sons, Inc., New York.
13. Rajalahti, R. M., Bellinder, R. R. & Hoffmann, M. P. (1999). Time of hillling and interseeding affect weed control and potato yield. *Weed Science*, 47, 215-225.
14. Rezai, A. & Soltani, A. (1997). *Potato Agriculture*. Jahad daneshgahi Mashhad Press. (In Farsi).
15. Van Gessl, M. J. & Renner, K. A. (1990). Effect of soil type, hillling time and yield. *Weed Technology*, 4, 299-305.
16. Vereijken, P. & Vanloon, C. D. (1991). A strategy for integrated low input potato production. *Potato Research*, 34, 57-66.
17. Wall, D. A. & Friesen, G. H. (1990b). Effect of duration of green foxtail (*Setaria viridis*) competition on potato (*Solanum tuberosum*) yield. *Weed Technology*, 4, 539-542.
18. Wallace, R. W. & Bellinder, R. R. (1989). Potato (*Solanum tuberosum*) yield and weed populations in conventional and reduced tillage systems. *Weed Technology*, 3, 590-595.
19. Wiltshire, J. J. J., Tillett, N. D. & Hague, T. (2003). Agronomic evaluation of precise mechanical hoeing and chemical weed control in sugar beet. *Weed Research*, 43, 236- 244.
20. Wyse, D. L. (1992). Future of weed science research. *Weed Technology*, 6, 162- 165.
21. Wyse, D. L. (1994). New technologies and approaches for weed management in sustainable agricultural systems. *Weed Technology*, 8, 403-407.