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***(Prunus dulcis Mill.)***

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**(Effective pollination period)**

(♂)

(♂)

(♀)

%

FAA

(♀)

(♂)

(♂)

(♀)

( )

(Stosser et al., 1996)

(Egea et al.,

.1992)

(Socias i Company

-

.et al., 2004)

°C

.(Williams, 1965)

°C

.(Burgos et al., 1991)

(1965) Williams .(Williams, 1966)

(1964) Griggs & Iwakiri

(EPP)

.(Burgos et al., 1995)

EPP

.(Sanzol & Herrero, 2001)

- 
- 1.Doyenne du Comice
  - 2.Conference
  - 3.Ovule longevity
  4. Nonpariel

EPP

(♀)

(Griggs & Iwakiri, 1964)

(♂)

(♂)

(2004b) Ortega et al.

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A<sub>4</sub>

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( )

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%

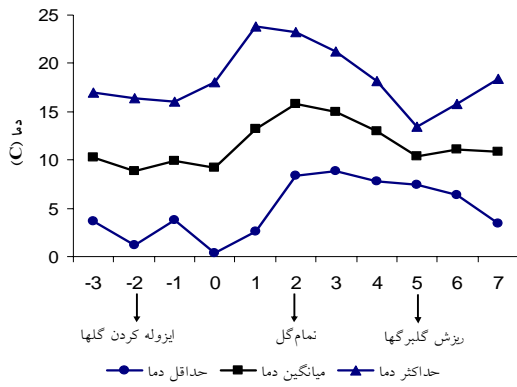
(Socias i Company et al., 2004)

- 
- 1. Texas
  - 2. Marcona
  - 3. Ramillet
  - 4. Marta
  - 5. Delcid
  - 6. Desmayo largueta

(Ortega et al., 2004a)

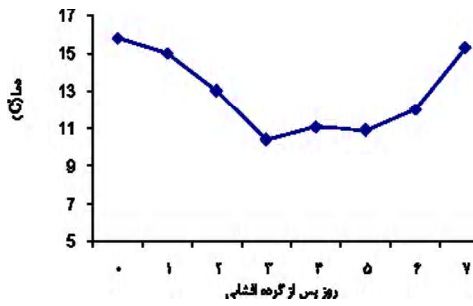
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(Rodrigo & Herro, 1996)

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(I)	(G)	(F)	(E)	(D)	(C)	(B)	(A)
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( )							
( )							
/	-	-					

EPP (Arzani & Javady, 2002)

(Nejatian &

.Arzani, 2003)

" "

(Griggs & Iwakiri,

.1964)

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.(Ortega et al., 2004b)

.(Gonzalez et al., 1995) EPP

EPP

.(Ortega et al., 2004b)

EPP

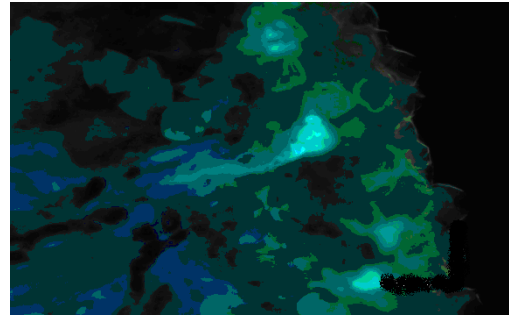
.(Tromp & Borsboom, 1994)

(Egea & Burgos, 2000)

.(Ortega et al., 2004b)

(2002) Arzani & Javady

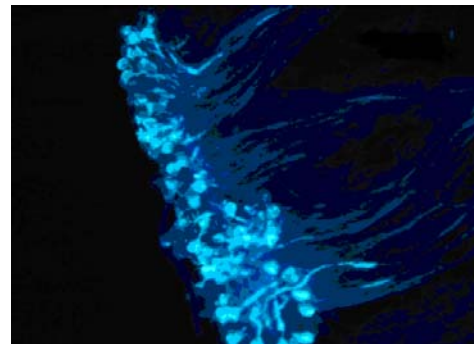
EPP



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(2004b) Ortega et al.

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(♀)

.(Godini, 1999)

.(Rodrigo & Herro, 1996)

(♀)

## REFERENCES

1. Arzani, K. & Javady, T. (2002). Study of flower biology and pollen tube growth of mature olive tree CV. "Zard". *ISHS Acta Horticulturae*, 586, 544-548.
2. Burgos, L., Egea, J. & Dicenta, F. (1991). Effective pollination period in apricot (*Prunus armeniaca* L.) cultivars. *Annals of Applied Biology*, 119, 533-539.
3. Burgos, L., Berguer, T. & Egea, J. (1995). Embryo sac development in pollinated and non-pollinated flowers of two apricot cultivars. *Journal of Horticultural Science*, 70, 35-39.
4. Egea, E. & Burgos, L. (2000). Ovule differences between single-kernelled and double-kernelled fruits in almond (*Prunus dulcis*), *Annals of Applied Biology*, 73, 107-110.
5. Egea, J. & Burgos, L. (1992). Effective pollination period as related to stigma receptivity in apricot. *Scientia Horticulturae*, 52, 77-83.
6. Egea, J., Burgos, L., Zoroa, N. & Egea, L. (1992). Influence of temperature on the in-vitro germination of pollen of apricot (*Prunus armeniaca* L.). *Journal of Horticultural Science*, 67, 247-250.
7. Godini, A. (1999). Observing pollen tube growing in self-compatible almond cultivars by means of fluorescence. *Cahiers Options Méditerranéennes*, 56, 77-82.
8. Gonzalez, M. V., Coque, M. & Herrero, M. (1995). Stigmatic receptivity limits the effective pollination period in kiwifruit. *Journal of the American Society for Horticultural Science*, 120, 199-202.
9. Griggs, W. H. & Iwakiri, B. T. (1964). Timing is critical for effective cross pollination of almond flowers. *California Agriculture*, 18, 6-7.
10. Nejatian, M. A. & Arzani, K. (2003). Incompatibility and effective pollination Period in apricot (*Prunus armeniaca* L.). In: *Proceedings of First Congress of Nuts, Tabriz*, pp. 511-518. (In Farsi).
11. Ortega, E. & Dicenta, F. (2004a). Suitability of four different methods to identify self compatible seedling in an almond breeding program. *Journal of Horticultural Science and Biotechnology*, 79, 747-753.
12. Ortega, E., Egea, L. & Dicenta, F. (2004b). Effective pollination period in almond. *Hort Science*, 39, 19-22.
13. Rodrigo, J. & Herro, M. (1996). Evaluation of pollination as the cause of erratic fruit set in apricot 'Moniqui'. *Journal of Horticultural Science*, 71, 801-805.
14. Sanzol, J. & Herrero, M. (2001). The effective pollination period in fruit trees. *Scientia Horticulturae*, 90, 1-17.
15. Socias i Company, R., Alonso, J. M. & Aparisi, J. G. (2004). Fruit set as an evaluation criterion in almond breeding. *Acta Horticulturae*, 663, 763-768.

16. Stosser, R., Hartman, W. & Anvari, S. F. (1996). General aspects of pollination and fertilization of pome and stone fruit. *Acta Horticulturae*, 423, 15-22.
17. Tromp, J. & Borsboom, O. (1994). The effect of autumn and spring temperature on fruit set and on the effective pollination period in apple and pear, *Scientia Horticultura*, 60, 23–30.
18. Williams, R. R. (1965). The effect of summer nitrogen applications on the quality of apple blossom. *Journal of Horticultural Science*, 40, 31-41.
19. Williams, R. R. (1966). Pollination studies in fruit trees. II. The effective pollination period for some apple and pear varieties. *Reports of the Long Ashton Research Station for*, 1965, 136-138.

