

**Annotated bibliography: Role of phenology in plant–animal interactions**

Jacqueline Levy

- Arzaluz, I.O. and R.W. Jones. 2001. Ecology and phenology of the boll weevil (Coleoptera: Curculionidae) on an unusual wild host, *Hibiscus pernambucensis*, in southeastern Mexico. *Ecology and Behavior* 94: 1405-1412. (A good example of how host plant phenology can influence insect phenology.)
- Connett, J.F., L.M. Wilson, J.P. McCaffrey, and B.L. Harmon. 2001 . Phenological synchrony of *Eustenopus villosus* (Coleoptera: Curculionidae) with *Centaurea solstitialis* in Idaho. *Biological Control* 30: 439-442. (Example of the importance of phenology in choosing a biological control agent.)
- Ishihara, M. 1998. Geographical variation in insect developmental period: effect of host plant phenology on the life cycle of the bruchid seed feeder *Kytrohinus sharpianus*. *Entomologia experimentalis et applicata* 87: 311-319 (An example of the change in insect development rates in response to the development of its host.)
- John, R.E. 2001. Mechanisms for locating resources in space and time: impact on the abundance of insect herbivores. *Austral Ecology* 26: 518-524. (Great overview paper on the factors influencing the phenologies and the mechanisms insect use to respond to environmental cues.)
- Law, R., J.L. Bronstein, and R. Ferriere. 2001. On mutualist and exploiters: plant-insect coevolution in pollinating seed-parasite systems. *Journal of Theoretical Biology* 212: 373-389 (An excellent examination of how these systems evolve and the importance of phenology. The include a lot of models and mathematics, so it is not an easy read.)
- Martel, J. and A. Kause. 2002 The Phenological window of opportunity for early-season

- birch sawflies. *Ecological Entomology* 27: 302-307. (This paper tests the 'phenological window hypothesis'. It is a straightforward study.)
- Mussey, G.J. and D.A. Potter. 1997. Phenological correlations between flowering plants and activity of urban landscape pests in Kentucky. *Horticulture Entomology* 90: 1615-1627. (This study shows how plant phenology is a better predictor of insect activity than calendar date, which is useful to pest management. I found this one interesting.)
- Pilson, D. 2000. Herbivory and natural selection on flowering phenology in wild sunflower, *Helianthus annuus*. *Oecologia* 122: 72-82 (This examines how insect activity impacts plant phenology.)
- Schiller, J.R., P.H. Zedler, and C.H. Black. 2000. The effect of density-dependent insect visits, flowering phenology, and plant size on seed set of the endangered vernal pool plant *Pogogyne abramsii* (Lamiaceae) in natural compared to created vernal pools. *Wetlands* 20: 386-396. ( This study does not focus on phenology.)