

Biology/Phenology

DEVELOPMENT OF A TEMPERATURE-DEPENDENT PREDICTIVE MODEL FOR
LACANOBIA SUBJUNCTA

Michael D. Doerr and Jay F. Brunner

Washington State University Tree Fruit Research and Extension Center, Wenatchee, WA

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Abstract: A temperature-dependent predictive model was developed for *Lacanobia subjuncta*. Constant temperature rearing under laboratory conditions was used to establish a minimum threshold for development of 44°F. Using a linear modeling system, the mean degree-days (°F) required for complete development of eggs, larvae and pupae were 137.3, 874.5, and 535.8, respectively. These data were validated using fluctuating temperatures under field conditions. Extensive sampling of overwintering emergence, preoviposition and oviposition periods as well as larval population distributions were used to complete the predictive model.