

Effects of the Exotic Invasive Shrub *Lonicera maackii* on the Survival and Fecundity of Three Species of Native Annuals.

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The authors studied the effects of Amur honeysuckle (*Lonicera maackii*), an invasive shrub throughout the eastern United States, on three annuals with different leaf phenologies and shade tolerance: cleavers (*Galium aparine*), pale touch-me-not (*Impatiens pallida*), and clearweed (*Pallida pumila*). They examined plant interactions in two forest stands in Ohio, one highly disturbed with a high density of amur honeysuckle and the other less disturbed with a lower density of the shrub. In plots established in each stand, the honeysuckle was either 1) removed, 2) present, or 3) absent (less-disturbed stand only). In both stands, reproduction increased for all three annuals in the absence of honeysuckle. Amur honeysuckle's negative impact on shade-intolerant or early-season annuals suggests that other annuals with similar properties may also decline in the presence of shrubs with early leaf expansion.