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**David M Chan\*** (dmchan@vcu.edu), 1015 Floyd Avenue, P.O. Box 842014, Richmond, VA 23284-2014, and **Candace Kent** and **Derek Johnson**. *Management of Invasive Allee Species*. Preliminary report.

In this study we use a discrete, two-patch population model of an Allee species to examine different strategies in managing invasions. We first analytically examine the model to show the presence of the strong Allee effect, and then we numerically explore the model to test the effectiveness of different management strategies. We find invasion is facilitated by lower Allee thresholds, greater carrying capacities, and greater proportions of dispersers, but these effects are interacting and moderated by population growth rate. Using the gypsy moth as an example species, we demonstrate that the most effective invasion management is context dependent, may require complementary strategies, and may differ geographically in the same species. Specifically, we find methods for restricting movement to be more effective in areas of high dispersal and high Allee thresholds, where methods involving mating disruptions and raising Allee thresholds are more effective in areas of low diffusion rates. (Received August 27, 2016)