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**ABSTRACT:** Samples of fourth instar larvae of the phantom midge *Chaoborus americanus* from four fishless lakes were analyzed for frequencies of different developmental morphs. The percentages of fast-developing morphs found were 92.9, 98.3, 19.6 and 39.2. These values did not correlate with lake temperature regimes. Lake temperature was correlated with the rate of pupation of fast-developing morphs.