**Supplement 1.** Information about rearing methods used for selecting data sets from the literature.

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| Species | Origin | Latitude | Source | Growth rate (r) units | Temperatures used | Photoperiod[h light] | Notes |
| *Lestes disjunctus* (Selys) | Canada | 51.1 | Krishnaraj & Pritchard (1995) | mm mm-1 day-1 | 10, 12.5, 15, 17.5, 22.5, 25°C | 16 | larval field samples |
| *Amphiagrion abbreviatum* (Selys) | Canada | 51.1 | Pritchard et al. (2000) | mm mm-1 day-1 | 12.5, 20 25, 30, 32.5°C | 16 | larval field samples |
| *Argia vivida* Hagen | Canada | 51.5 | Pritchard et al. (2000) | mm mm-1 day-1 | 12.5, 15,20, 25, 30°C | 16 | larval field samples |
| *Coenagrion hastulatum* (Charpentier) | Sweden | 63.5 | Van Doorslaer et al. (2005) | mm day-1 | 17, 22, 27 | 14 | reared from eggs |
| *Coenagrion mercuriale* (Charpentier) | France | 42.0 | Nilsson-Örtmann et al. (2012) | mm day-1 | 16.3, 19.5, 21.5, 24°C | 14 | reared from eggs |
| *Coenagrion puella* (Linnaeus) | Belgium | 50.9 | Van Doorslaer et al. (2005) | mm day-1 | 17, 22, 27 | 14 | reared from eggs |
| *C. puella* | Belgium | 51.0 | Nilsson-Örtmann et al. (2012) | mm day-1 | 16.3, 19.5, 21.5, 24°C | 14 | reared from eggs |
| *C. puella* | Austria | 48.3 | Waringer & Humpesch 1984 | % of body length | 4, 6, 8, 10, 12, 14, 16, 18, 20, 24, 28°C | 10, 12 | reared from eggs |
| *Coenagrion pulchellum* (Vander Linden) | Belgium | 51.0 | Nilsson-Örtmann et al. (2012) | mm day-1 | 16.3, 19.5, 21.5, 24°C | 14 | reared from eggs |
| *Coenagrion resolutum* (Selys) | Canada | 51.5 | Krishnaraj & Pritchard (1995) | mm mm-1 day-1 | 10, 12.5, 15, 17.5, 22.5, 25°C | 16 | larval field samples |
| *Coenagrion scitulum* (Rambur) | France | 42.0 | Nilsson-Örtmann et al. (2012) | mm day-1 | 16.3, 19.5, 21.5, 24°C | 14 | reared from eggs |
| *Enallagma vesperum* Calvert | USA | 43.4 | Cullum et al. (2014) | mg mg0.33 day-1 | 16, 18, 22, 26, 30 | 13 | larval field samples |
| *Ischnura elegans* (Vander Linden) | Belgium | 51.0 | Shama et al. (2011) | mm day-1 | 18, 21, 24°C | 14 | reared from eggs |
| *I. elegans*  | Sweden | 51.0 | Shama et al. (2011) | mm day-1 | 18, 21, 24°C | 14 | reared from eggs |
| *I. elegans* | France | 51.0 | Shama et al. (2011) | mm day-1 | 18, 21, 24°C | 14 | reared from eggs |
| *Anax junius* (Drury) | Canada | 43.5 | Trottier 1971 | days to emergence (F0) | 12.5, 15, 20, 25, 30°C | 14 | last instar larvae |
| *Leucorrhinia dubia* (Vander Linden) | Germany | 54.0 | Soeffing 1990 | # of molts / 50 days | 10, 15, 20, 25, 30, 35°C | 16 | reared from eggs |
| *Leucorrhinia rubicunda* (Linnaeus) | Germany | 54.5 | Soeffing 1990 | # of molts / 50 days | 10, 15, 20, 25, 30, 35°C | 16 | reared from eggs |