

**FIGURE 22.37.** The apple maggot *Rhagoletis pomonella* (*A*) is distributed across the United States and Mexico (*B*). In the northeastern United States, two host races are found, which specialize on apple and hawthorn. Larvae emerge 3–4 weeks earlier from apple than from hawthorn (*C*), and so experience a warmer prewinter period and must diapause over winter as pupae for longer.

22.37A, photo courtesy of Andrew Forbes, U.C. Davis; 22.37B, redrawn from Feder J.L. et al., *Proc. Natl. Acad. Sci.* 100: 10314–10319, © 2003 National Academy of Sciences, U.S.A.; 22.37C, redrawn from Filchak K.E. et al., *Nature* 407: 739–742, © 2000 Macmillan, www.nature.com.

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