

A



B

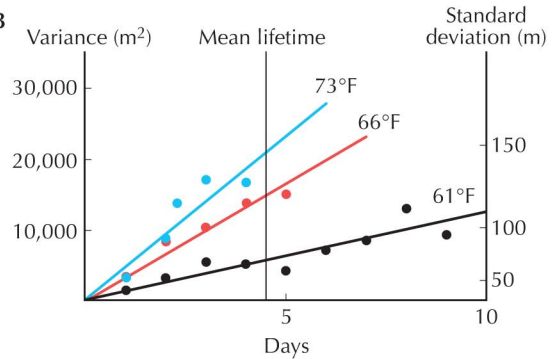


FIGURE 16.4. Dobzhansky and Wright (1943) measured the rate of dispersal of *Drosophila pseudoobscura* by releasing marked flies at sites in the Sierra Nevada, California (A). Over the following days, flies were caught in a series of traps. The graphs (B) show how the variance of the distribution of marked flies increased over time. The three sets of points show results from experiments at different times during the summer: Rates of movement increase strongly with temperature. The rate of diffusion of genes is estimated by assuming a mean lifetime of 4.5 days (vertical line).

16.4A, reprinted from Dobzhansky T.G., *Dobzhansky's Genetics of Natural Populations*, Fig. 37, © 1981 Columbia University Press; 16.4B, drawn from data in Dobzhansky T.G. et al., *Genetics* **28**: 304–340, © 1943 Genetics Society of America