

Purpose

The purpose of this experiment is to address the following research questions:

1. Does nutrition have an impact on developmental timing?
2. Does nutrition have an impact on sex determination?
3. Does nutrition have an impact on viability?

The techniques to measure this include creating two different concentrations of yeast, collecting female virgins, sexing flies, and utilizing mating

Orange indicates the 1% yeast concentration diet condition, and blue indicates the 5% yeast concentration diet conditions. $P = 5.42088E-11$

High yeast concentration diet condition flies began eclosing ten days post-mating and peaked on day 12; the peak number of flies eclosed was eight (Figure 1). Eclisions declined steeply on day 13 and slowly tapered off until there were zero eclisions from days 16-21 (Figure 1). Low yeast concentration diet condition flies began eclosing eigh-

