Further experiments on insect competition

By A. C. Crombie, *Zoological Laboratory, Cambridge*

Experiment #1

Proceedings of the Royal Society B 1946

Tribolium confusum alone

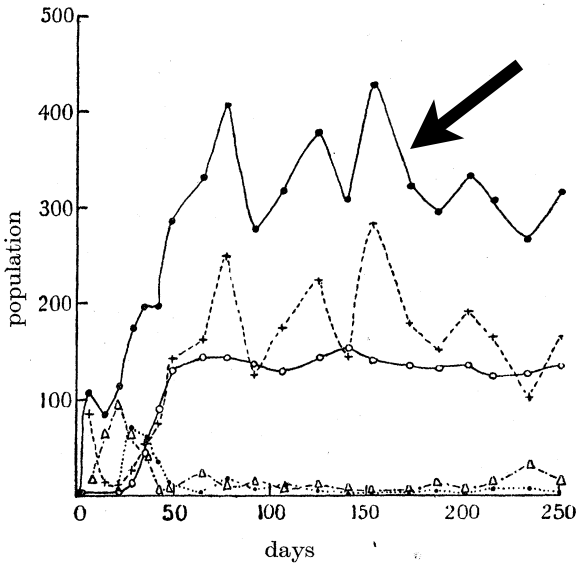


Figure 4. The population growth of *Tribolium* alone in renewed fine flour (table 4).

Eggs +---+ ; larvae △-·-·-△ ; pupae ●.....● ; adults ○——○ ; total ●——●.

Oryzaephilus surinamensis alone

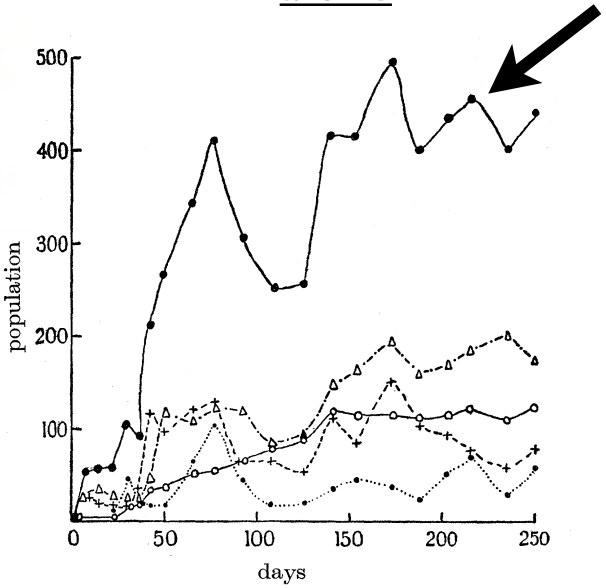
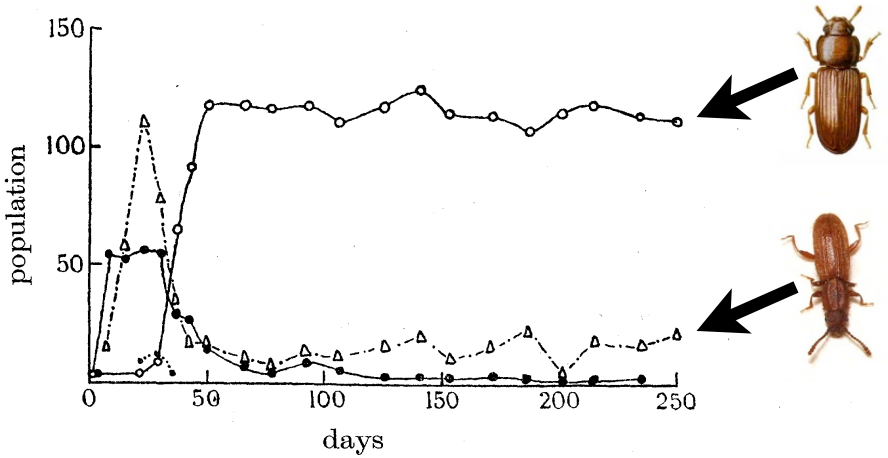


Figure 5. The population growth of *Oryzaephilus* alone in renewed fine flour (table 5).

Eggs +---+ ; larvae △-·-·-△ ; pupae ●.....● ; adults ○——○ ; total ●——●.



Tribolium wins

Figure 6. The population growth of *Tribolium* and *Oryzaephilus* competing in renewed fine flour (table 6).

Tribolium larvae △-·-·-△ ; adults ○——○ ; *Oryzaephilus* pupae ●.....● ; total ●——●.

Experiment #2

Tribolium confusum

alone

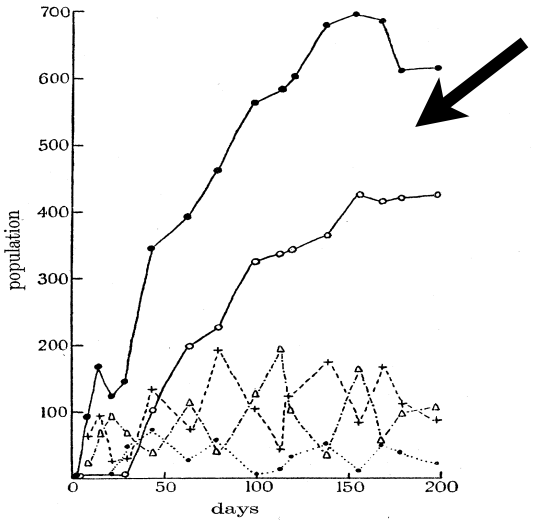


FIGURE 7. The population growth of *Tribolium* alone in renewed fine flour with 2 mm. bore glass tubing.

Eggs +———+; larvae △–·–·–△; pupae •·····•; adults ○——○; total ●——●.

Oryzaephilus surinamensis

alone

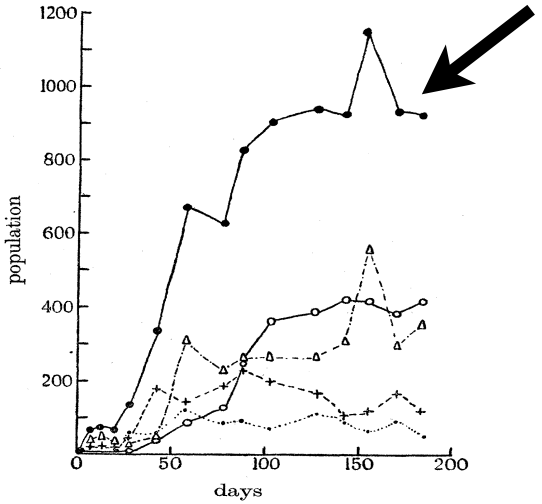
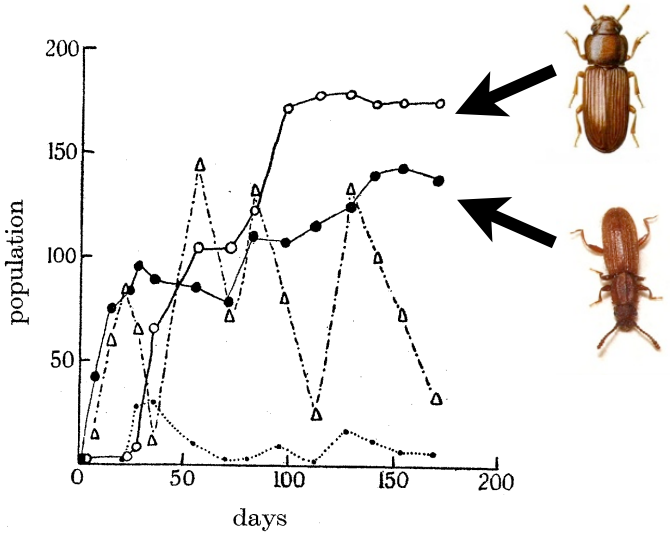


FIGURE 8. The population growth of *Oryzaephilus* alone in renewed fine flour with 1 mm. bore glass tubing (table 9).

Eggs +———+; larvae △–·–·–△; pupae •·····•; adults ○——○; total ●——●.

with glass tubing - refuge for *Oryzaephilus* pupae



Coexistence

FIGURE 9. The population growth of *Tribolium* competing with *Oryzaephilus* in renewed fine flour with 1 mm. bore glass tubing (table 10).

Tribolium larvae △–·–·–△; adults ○——○; *Oryzaephilus* pupae •·····•; total ●——●.