

The following supplementary material contains eight detailed life tables for the two sites, Courroux and Delémont in Switzerland, that were used to create the summary tables 2 and 3 in the manuscript. (word file, 85.1kb)

Supplementary Table 1. Life table of diamondback moth, *Plutella xylostella*, at Courroux, Switzerland for June–July 2014 on oilseed rapa, *Brassica napus*.

| Stage | Factor | Stage | | Factor | Marginal attack rate (m_x) | Apparent mortality | | Real mortality (r_x) | | k – value | | % of generational mortality $100k_x/K_G$ |
|-------|-------------|----------|----------|----------|--------------------------------|--------------------|-------------|--------------------------|-----------------|------------------|---------|--|
| | | l_x | d_x | | | d_x | Stage q_s | Factor q_x | Stage d_x/l_0 | Factor d_x/l_0 | Stage | |
| egg | | 1000 | 863.2360 | | | 0.86324 | | 0.863236 | | 0.85890 | | |
| | predation | | | 261.7000 | 0.4529 | | 0.2617 | 0.26170 | | | 0.26194 | 4.91873 |
| | unknown | | | 596.0000 | 0.7468 | | 0.5960 | 0.59600 | | | 0.59655 | 11.20201 |
| | infertility | | | 4.6360 | 0.0008 | | 0.0046 | 0.00464 | | | 0.00034 | 0.00644 |
| | parasitism | | | 0.9000 | 0.0002 | | 0.0009 | 0.00090 | | | 0.00007 | 0.00125 |
| L1 | | 136.7640 | 124.8397 | | | 0.91281 | | 0.1248397 | | 1.05954 | | |
| | predation | | | 32.2353 | 0.4674 | | 0.2357 | 0.03224 | | | 0.27359 | 5.13744 |
| | unknown | | | 68.7649 | 0.7392 | | 0.5028 | 0.06876 | | | 0.58362 | 10.95929 |
| | parasitism | | | 23.8395 | 0.3724 | | 0.1743 | 0.02384 | | | 0.20233 | 3.79937 |
| L2-L3 | | 11.9243 | 11.8612 | | | 0.99471 | | 0.0118612 | | 2.27613 | | |
| | predation | | | 8.1284 | 0.9724 | | 0.6817 | 0.00813 | | | 1.55983 | 29.29065 |
| | unknown | | | 3.2593 | 0.7631 | | 0.2733 | 0.00326 | | | 0.62545 | 11.74471 |
| | parasitism | | | 0.4735 | 0.1888 | | 0.0397 | 0.00047 | | | 0.09085 | 1.70608 |
| L4 | | 0.0631 | 0.0517 | | | 0.81888 | | 0.0000517 | | 0.74203 | | |
| | predation | | | 0.0331 | 0.6649 | | 0.5241 | 0.00003 | | | 0.47487 | 8.91717 |
| | unknown | | | 0.0164 | 0.4187 | | 0.2600 | 0.00002 | | | 0.23560 | 4.42413 |
| | parasitism | | | 0.0022 | 0.0701 | | 0.0348 | 0.00000 | | | 0.03156 | 0.59266 |

