# Supplemental Tables and Table Legends

***Supplemental Table S1:*** *Locations of study sites and timing of oviposition experiments*

| **Sites** | **Latitude and Longitude Coordinates** | **Dates visited** |
|---|---|---|
| Highgrove Walkway (1) | -45.918, 170.474 | 18/11/2021–01/04/2022 |
| Long Beach (2) | -45.745, 170.641 | 21/12/2021–03/04/2022 |
| The Pyramids (3) | -45.823, 170.720 | 07/01/2022–10/04/2022 |
| Portobello Marine Studies Centre Walkway (4) | -45.826, 170.642 | 23/11/2021–10/04/2022 |
| Sawyers Bay Eco Sanctuary (5) | -45.818, 170.606 | 23/02/2022–2/03/2022 |
| Larnach Castle (6) | -45.861, 170.626 | 01/02/2022–21/02/2022 |
| Botanic Gardens (7) | -45.857, 170.521 | 03/12/2021 |
| Invermay Agricultural Centre (8) | -45.860, 170.382 | 07/02/2022–18/03/2022 |
| Taieri Mouth Road (9) | -46.025, 170.229 | 08/04/2022 |

"Dates visited" indicates the first and last visits at that site. Latitude and longitude are shown with 3dp. Superscript numbers in brackets refers to site location shown in Fig 2.

***Supplemental Table S2:*** *Number of larvae used from each ovipositing V. g. gonerilla*

| Mother ID | Total eggs laid | Total larvae used |
|---|---|---|
| 1 | 62 | 9 |
| 3 | 6 | 6 |
| 12 | 35 | 25 |
| 21 | 1 | 0 |
| 22 | 3 | 3 |
| 25 | 4 | 0 |
| 27 | 1 | 0 |
| 28 | 1 | 0 |
| 31 | 27 | 21 |
| 32 | 30 | 24 |

***Supplemental Table S3:*** *Oviposition break down across sites*

| Site: | Number of trips (successful trips) | Total caught (median/trip) | Total oviposited | Total eggs laid (median/trip) |
|---|---|---|---|---|
| High Grove | 8 (2) | 4 (0) | 2 | 67 (34) |
| Long Beach | 4 (0) | 10 (2) | 0 | 0 (0) |
| The Pyramids | 11 (5) | 24 (2) | 8 | 102 (3.5) |
| Larnach Castle | 4 (0) | 2 (0) | 0 | 0 (0) |
| Sawyers Bay | 3 (0) | 7 (3) | 0 | 0 (0) |
| Portobello | 2 (0) | 0 (0) | 0 | 0 (0) |
| Taieri Mouth | 1 (0) | 0 (0) | 0 | 0 (0) |
| Botanic Gardens | 1 (0) | 0 (0) | 0 | 0 (0) |

Data gathered from 18 November 2021 to 10 March 2022. Values for total caught and total eggs laid are presented as total (median). Successful trips are the number of trips where oviposition occurred. The Invermay site is not included in this table because we never saw *V. g. gonerilla* adults at the site.

***Supplemental Table S4:*** *Larval performance on different nettle food treatments*

| | Number of larvae | Days to pupation | | Days to adult | | Percent survived |
|---|---|---|---|---|---|---|
| | | Mean ± SE | Median (95% CI) | Mean ± SE | Median (95% CI) | |
| *U. ferox* | 28 | 36 ± 1.949 | 35 (31–41) | 51 ± 2.074 | 49 (47–56) | 18% |
| *U. australis* hybrid | 26 | 33 ± 1.173 | 31 (31–35) | 47.92 ± 1.293 | 47 (45–51) | 50% |
| *U. urens* | 25 | 37 ± 2.097 | 36.5 (33–43) | 54.75 ± 3.065 | 55 (47–62) | 16% |

The nettle food treatments are shown in the left column (*U. ferox*, *U. australis* hybrid, *U. urens*). The descriptive stats for days to pupation and days to adult only include those that survived to adulthood.