Fecundity (number of offspring per adult per year) for each species of Hawaiian tree snail reared at the University of Hawai‘i at Mānoa Endangered Tree Snail Captive Rearing Facility. When considered collectively, fecundity declined for all species over generations (*r2* = 0.46, *P* < 0.01).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Species | Founders (mean±SD) | F1 (mean±SD) | F2 (mean±SD) | F3 (mean±SD) | *r2 / X2* | *P* |
| All | 1.99±0.15 | 1.80±0.11 | 1.40±0.11 | 1.05±0.24 | 0.046 | **<0.01** |
| Exceeded 100 individuals in captivity  |  |  |  |
| *A. fuscobasis* | No data | 1.60±0.57 | 1.23±0.74 | 0.98±0.73 | 5.92 | 0.052 |
| *A. lila* | 3.40±0.65 | 4.02±0.59 | 1.50±0.65 |  | 4.34 | **0.036** |
| *A. livida* | 2.56±0.90 | 2.49±1.26 | 1.20±1.15 |  | 4.47 | 0.11 |
| *P. variabilis* | 2.97±2.17 | 1.18±1.07 | 3.40±0.43 |  | 7.33 | **0.026** |
| Never exceeded 100 individuals in captivity  |  |  |  |
| *A. apexfulva* | 1.68±1.51 |  |  |  |  |  |
| *A. bulmoides* | 1.34±0.72 | 0.98±1.14 |  |  | 0.38 | 0.54 |
| *A. decipiens* | 1.75±0.78 | 1.15±0.62 | 0.43±0.58 |  |  5.99 | 0.050 |
| *A. fulgens* | 1.30±1.47 |  |  |  |  |  |
| *P. semicarinata* | 2.46±1.35 | 0.84±0.71 | 1.23±0.72 |  | 10.84 | **<0.01** |
| Extirpated from captivity |  |  |  |  |
| *A. sowerbyana* | 1.12±0.48 | 2.20±0.86 | 0.68±0.78 | 0.67±1.15 | 12.61 | **<0.01** |
| *N. cumingi* | 2.90±1.41 | 1.50±1.14 |  |  | 1.33 | 0.25 |
| *P. mighelsiana* | No data | No data | 1.75±1.77 | 3.25±2.48 | 2.71 | 0.26 |
| *P. perdix* | 1.38±1.57 | 0.48±0.44 |  |  | 2.71 | 0.26 |
| *P. physa* | 0.25±0.35 | 3.98±2.36 | 1.56±1.30 |  | 7.01 | 0.072 |
| *P. proxima* | 1.95±1.42 | 1.52±0.33 | 0.40±0.39 |  | 7.03 | 0.071 |