Sampling

|  |  |  |
| --- | --- | --- |
| Formation | N colonies | N zooids (avg per colony) |
| NKLS | 66 | 615 (9) |
| NKBS | 263 | 2934 (11) |
| Tewkesbury | 107 | 1050 (9) |
| Waipuru | 15 | 156 (10) |
| Upper Kai-Iwi | 21 | 170 (8) |
| Tainui | 19 | 155 (8) |
| SHCSBSB | 50 | 400 (8) |

NOTE: rounded down

Normality tests for each trait

* All fail the shapiro test (i.e., significantly different from normal)

|  |  |
| --- | --- |
| Trait | Shapiro p-value |
| LN zooid height (zh) | < 2.2e-16 |
| LN median process width at base (mpw.b) | 1.391e-07 |
| LN cryptocyst width at midline (cw.m) | 0.02664 |
| LN cryptocyst distal width (cw.d) | 1.302e-05 |
| LN operculum width at midline (ow.m) | < 2.2e-16 |
| LN operculum height (oh) | < 2.2e-16 |
| LN cryptocyst side length (c.side) | 0.001001 |
| LN operculum side length (o.side) | < 2.2e-16 |

P and G correlation within each formation results

NKLS: .96

NKBS: .96

Tewkesbury: .98

Waipuru: .94

Upper Kai-Iwi: .97

Tainui: .98

SHCSBSB: .95

Change in G across formations:

NKLS to NKBS: 5.25˚

NKBS to Tewksbury: 5.47˚

Tewkesbury to Waipuru: 23.74˚

Waipuru to Upper Kai-Iwi: 27.52˚

Upper Kai-Iwi to Tainui: 32.69˚

Tainui to SHCSBSB: 23.03˚