

Population name

- 1 Dharawal Site 6
- 2 Dharawal Site 12
- 3 Dharawal Site 13
- 4 Dharawal Site 15
- 5 Dharawal Site 18
- 6 Climb\_Morton
- 7 Nerrigera\_Morton
- 8 B\_Morton
- 9 J\_Morton
- 10 MonkeyGum
- 11 Yarramunmun site 1
- 12 Yarramunmun site 4
- 13 Yarramunmun site 2
- 14 Putty\_site 7
- 15 Putty\_site 15
- 16 Putty\_site 5
- 17 Putty\_site 1
- 18 Malabar
- 19 Cape Banks
- 20 Royal NP

Population pairwise  $\Phi$ STs

|    | 1        | 2        | 3       | 4        | 5       | 6       | 7        | 8       | 9       | 10       | 11      | 12       | 13      | 14      | 15      | 16      | 17      | 18      | 19      |
|----|----------|----------|---------|----------|---------|---------|----------|---------|---------|----------|---------|----------|---------|---------|---------|---------|---------|---------|---------|
| 1  | 0        |          |         |          |         |         |          |         |         |          |         |          |         |         |         |         |         |         |         |
| 2  | 0.0487   | 0        |         |          |         |         |          |         |         |          |         |          |         |         |         |         |         |         |         |
| 3  | -0.12292 | 0.01289  | 0       |          |         |         |          |         |         |          |         |          |         |         |         |         |         |         |         |
| 4  | 0.05717  | 0.03178  | 0.00014 | 0        |         |         |          |         |         |          |         |          |         |         |         |         |         |         |         |
| 5  | 0.09203  | -0.07677 | 0.03464 | -0.00769 | 0       |         |          |         |         |          |         |          |         |         |         |         |         |         |         |
| 6  | 0.98266  | 0.98427  | 0.98068 | 0.97573  | 0.97704 | 0       |          |         |         |          |         |          |         |         |         |         |         |         |         |
| 7  | 0.98302  | 0.98464  | 0.98135 | 0.97659  | 0.97811 | 0.77283 | 0        |         |         |          |         |          |         |         |         |         |         |         |         |
| 8  | 0.99291  | 0.99577  | 0.99496 | 0.98978  | 0.9945  | 0.38433 | 0.85784  | 0       |         |          |         |          |         |         |         |         |         |         |         |
| 9  | 0.99323  | 0.99598  | 0.99527 | 0.99041  | 0.99492 | 0.4     | 0.86385  | 0       | 0       |          |         |          |         |         |         |         |         |         |         |
| 10 | 0.98963  | 0.992    | 0.99031 | 0.9854   | 0.98883 | 0.85749 | -0.00346 | 0.95439 | 0.95659 | 0        |         |          |         |         |         |         |         |         |         |
| 11 | 0.98507  | 0.98687  | 0.98409 | 0.9794   | 0.98141 | 0.82502 | 0.09111  | 0.90093 | 0.90528 | 0.12915  | 0       |          |         |         |         |         |         |         |         |
| 12 | 0.99291  | 0.99577  | 0.99496 | 0.98978  | 0.9945  | 0.88386 | -0.01617 | 1       | 1       | -0.00917 | 0.15691 | 0        |         |         |         |         |         |         |         |
| 13 | 0.98234  | 0.98397  | 0.98032 | 0.97527  | 0.9766  | 0.78592 | -0.02946 | 0.8633  | 0.8694  | 0.0002   | 0.08868 | -0.00917 | 0       |         |         |         |         |         |         |
| 14 | 0.98405  | 0.98607  | 0.98041 | 0.97304  | 0.97215 | 0.97857 | 0.97968  | 0.99159 | 0.99223 | 0.98755  | 0.98187 | 0.99159  | 0.97825 | 0       |         |         |         |         |         |
| 15 | 0.96303  | 0.96284  | 0.95028 | 0.94325  | 0.93374 | 0.96574 | 0.9673   | 0.97552 | 0.97712 | 0.97322  | 0.96901 | 0.97552  | 0.96527 | 0.88693 | 0       |         |         |         |         |
| 16 | 0.9057   | 0.89924  | 0.87363 | 0.86732  | 0.84351 | 0.91026 | 0.91345  | 0.9145  | 0.91893 | 0.91564  | 0.9142  | 0.9145   | 0.90905 | 0.10653 | 0.68306 | 0       |         |         |         |
| 17 | 0.85051  | 0.83928  | 0.80073 | 0.79481  | 0.75595 | 0.86664 | 0.87119  | 0.86786 | 0.87445 | 0.87145  | 0.87141 | 0.86786  | 0.86487 | 0.44358 | 0.14542 | 0.34559 | 0       |         |         |
| 18 | 0.97185  | 0.97236  | 0.96091 | 0.95255  | 0.94356 | 0.96328 | 0.96449  | 0.97711 | 0.97884 | 0.97295  | 0.96681 | 0.97662  | 0.96196 | 0.83845 | 0.83115 | 0.59135 | 0.4771  | 0       |         |
| 19 | 0.99381  | 0.99633  | 0.99568 | 0.99125  | 0.99536 | 0.9896  | 0.98983  | 1       | 1       | 0.99648  | 0.99159 | 1        | 0.98941 | 0.97667 | 0.93927 | 0.76225 | 0.65061 | 0.70421 | 0       |
| 20 | 0.75756  | 0.74654  | 0.68915 | 0.65156  | 0.62319 | 0.92805 | 0.93129  | 0.9367  | 0.94024 | 0.93665  | 0.93422 | 0.93741  | 0.92763 | 0.90875 | 0.89236 | 0.83728 | 0.78222 | 0.88457 | 0.94639 |

$\Phi$ ST p-values

|                   | 1              | 2              | 3              | 4              | 5              | 6              | 7              | 8              | 9              | 10             | 11             | 12             | 13             | 14             | 15             | 16             | 17             | 18             | 19             |
|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1 *               |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 2 0.36036+0.0606  | *              |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 3 0.99099+0.0030  | 0.48649+0.0562 | *              |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 4 0.27928+0.0370  | 0.33333+0.0451 | 0.53153+0.0345 | *              |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 5 0.19820+0.0353  | 0.99099+0.0030 | 0.33333+0.0333 | 0.68468+0.0279 | *              |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 6 0.00000+0.0000  | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | *              |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 7 0.00000+0.0000  | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | *              |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 8 0.00000+0.0000  | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00901+0.0091 | 0.03604+0.0148 | 0.00000+0.0000 | *              |                |                |                |                |                |                |                |                |                |                |                |
| 9 0.00000+0.0000  | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.99099+0.0030 | *              |                |                |                |                |                |                |                |                |                |                |                |
| 10 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.72072+0.0470 | 0.00000+0.0000 | 0.00000+0.0000 | *              |                |                |                |                |                |                |                |                |                |                |
| 11 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.14414+0.0337 | 0.00000+0.0000 | 0.00000+0.0000 | 0.17117+0.0550 | *              |                |                |                |                |                |                |                |                |                |
| 12 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00901+0.0091 | 0.00000+0.0000 | 0.99099+0.0030 | 0.00000+0.0000 | 0.99099+0.0030 | 0.18919+0.0344 | *              |                |                |                |                |                |                |                |                |
| 13 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.99099+0.0030 | 0.00000+0.0000 | 0.00000+0.0000 | 0.45946+0.0656 | 0.14414+0.0337 | 0.99099+0.0030 | *              |                |                |                |                |                |                |                |
| 14 0.00000+0.0000 | 0.00901+0.0091 | 0.00000+0.0000 | 0.00000+0.0000 | 0.02703+0.0139 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00901+0.0091 | 0.00000+0.0000 | *              |                |                |                |                |                |                |
| 15 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00901+0.0091 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00901+0.0091 | *              |                |                |                |                |
| 16 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.15315+0.0333 | 0.00000+0.0000 | *              |                |                |
| 17 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00901+0.0091 | *              |                |                |
| 18 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.01802+0.0182 | 0.00901+0.0091 | 0.01802+0.0182 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00901+0.0091 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00901+0.0091 | 0.11712+0.0385 | 0.00901+0.0091 | *              |                |
| 19 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | *              |
| 20 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 | 0.00000+0.0000 |

Significance level (after Bonferroni correction) = 0.0002