Table S7. Associations between socioecological variables and performance in primates. The t statistic indicates the direction of the relationship between variables. Statistical tests for population group size, foraging group size, diet breadth, and percent fruit in the diet used directional two-tailed tests (see main text). Statistical tests for all other variables used non-directional two-tailed tests.

| **Explanatory Variable** | **Dependent Measure** | **t** | **df** | **p** | | **r2** | **λ** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Population Group Size | Cylinder score | -1.19 | 18 | | 0.88 | 0.07 | 0.95 |
| A not B score | 0.09 | 16 | | 0.46 | < 0.01 | 0.47 |
| Composite Score | -0.75 | 13 | | 0.77 | 0.04 | 0.83 |
| Foraging Group Size | Cylinder score | -1.27 | 18 | | 0.89 | 0.08 | 0.96 |
| A not B score | -0.17 | 16 | | 0.57 | < 0.01 | 0.47 |
| Composite Score | -0.33 | 13 | | 0.63 | 0.01 | 0.82 |
| Percent Fruit in Diet | Cylinder score | 1.46 | 17 | | 0.08 | 0.11 | 0.93 |
| A not B score | -0.31 | 15 | | 0.62 | 0.01 | 0.47 |
| Composite Score | 0.11 | 13 | | 0.46 | < 0.01 | 0.85 |
| Dietary Breadth | Cylinder score | 3.35 | 17 | | < 0.01 | 0.40 | 0.63 |
| A not B score | 3.44 | 15 | | < 0.01 | 0.44 | 0.41 |
| Composite Score | 4.99 | 12 | | < 0.01 | 0.68 | 0.69 |
| Social Learning | Cylinder score | 5.37 | 13 | | < 0.01 | 0.69 | 0.00 |
| A not B score | 1.60 | 12 | | 0.14 | 0.18 | 0.00 |
| Composite Score | 2.63 | 9 | | 0.03 | 0.44 | 0.00 |
| Innovation | Cylinder score | 3.35 | 13 | | < 0.01 | 0.46 | 0.00 |
| A not B score | 1.53 | 12 | | 0.15 | 0.16 | 0.00 |
| Composite Score | 1.99 | 9 | | 0.08 | 0.31 | 0.00 |
| Extractive Foraging | Cylinder score | 3.13 | 13 | | < 0.01 | 0.43 | 0.55 |
| A not B score | 2.26 | 12 | | 0.04 | 0.30 | 0.00 |
| Composite Score | 3.10 | 9 | | 0.01 | 0.52 | 0.00 |
| Tool Use | Cylinder score | 5.92 | 13 | | < 0.01 | 0.73 | 0.00 |
| A not B score | 1.67 | 12 | | 0.12 | 0.19 | 0.00 |
| Composite Score | 3.12 | 9 | | 0.01 | 0.52 | 0.00 |
| Tactical Deception | Cylinder score | 5.20 | 13 | | < 0.01 | 0.68 | 0.00 |
| A not B score | 3.19 | 12 | | < 0.01 | 0.46 | 0.00 |
| Composite Score | 4.06 | 9 | | < 0.01 | 0.65 | 0.00 |
| gs | Cylinder score | 6.68 | 13 | | < 0.01 | 0.77 | 0.00 |
| A not B score | 2.30 | 12 | | 0.04 | 0.31 | 0.00 |
| Composite Score | 3.61 | 9 | | < 0.01 | 0.59 | 0.00 |
| PCA 1 | Cylinder score | 6.64 | 13 | | < 0.01 | 0.77 | 0.00 |
| A not B score | 2.33 | 12 | | 0.04 | 0.31 | 0.00 |
| Composite Score | 3.61 | 9 | | < 0.01 | 0.59 | 0.00 |
| Home Range | Cylinder score | -1.27 | 18 | | 0.22 | 0.08 | 0.99 |
| A not B score | -0.78 | 15 | | 0.45 | 0.04 | 0.56 |
| Composite Score | -0.83 | 13 | | 0.42 | 0.05 | 0.89 |
| Day Journey Length | Cylinder score | 0.44 | 17 | | 0.67 | 0.01 | 0.94 |
| A not B score | 0.26 | 15 | | 0.80 | 0.00 | 0.46 |
| Composite Score | -0.11 | 12 | | 0.91 | 0.00 | 0.82 |
| D-Index | Cylinder score | 0.40 | 17 | | 0.69 | 0.01 | 0.94 |
| A not B score | 0.55 | 14 | | 0.59 | 0.02 | 0.50 |
| Composite Score | 0.30 | 12 | | 0.77 | 0.01 | 0.78 |
| Primary Substrate | Cylinder score | 0.12 | 18 | | 0.91 | 0.00 | 0.95 |
| A not B score | 1.07 | 46 | | 0.30 | 0.07 | 0.32 |
| Composite Score | 0.38 | 13 | | 0.71 | 0.01 | 0.83 |