

## Appendix 7

Statistical analyses conducted with the software UCINET 6.718 comparing the density within and between ecological and social networks and subnetworks.

**Table A7.1.** P values resulting from the statistical analyses comparing the density between subnetworks. Statistically significant values ( $P \leq 0.05$ ) are shown in bold and indicate the two networks being compared have densities that are statistically different from each other.

	Ecological networks		Social networks			
	Larvae	Migrants	Kinship	Kinship	Communi- cation	Leader- ship
BK vs. PL	0.152	<b>0.001</b>	0.063	<b>0.001</b>	<b>0.001</b>	<b>0.005</b>
BK vs. All	0.087	0.729	0.089	0.387	<b>0.001</b>	0.096
PL vs. All	0.687	<b>0.001</b>	0.131	<b>0.042</b>	<b>0.013</b>	<b>0.023</b>
BK vs. BK-PL	<b>0.001</b>	0.093	0.058	<b>0.008</b>	<b>0.001</b>	<b>0.001</b>
PL vs. BK-PL	<b>0.031</b>	<b>0.025</b>	0.073	<b>0.015</b>	<b>0.023</b>	<b>0.001</b>
All vs. BK-PL	<b>0.019</b>	0.697	0.073	<b>0.003</b>	0.715	<b>0.001</b>

**Table A7.2.** P values resulting from the statistical analyses comparing the density within ecological and within social networks. Statistically significant values ( $P \leq 0.05$ ) are shown in bold and indicate the two networks being compared have densities that are statistically different from each other.

Ecological network	BK	PL	All
Larvae vs. Migrants	<b>0.001</b>	1	0.063
Larvae vs. Kinship	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>
Migrants vs. Kinship	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>
Social network			
Kinship vs. Communication	<b>0.025</b>	0.050	<b>0.007</b>
Kinship vs. Leadership	<b>0.001</b>	0.078	<b>0.001</b>
Communication vs. Leadership	<b>0.001</b>	0.668	0.334

**Table A7.3.** P values resulting from the statistical analyses comparing the density between ecological and social networks. Statistically significant values ( $P \leq 0.05$ ) are shown in bold and indicate the two networks being compared have densities that are statistically different from each other.

Ecological network	Social network	BK	PL	All
Larvae vs.	Kinship	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>
	Communication	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>
	Leadership	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>
Migrants vs.	Kinship	<b>0.001</b>	<b>0.001</b>	<b>0.005</b>
	Communication	<b>0.001</b>	<b>0.001</b>	<b>0.008</b>
	Leadership	<b>0.001</b>	<b>0.001</b>	<b>0.005</b>
Kinship vs.	Kinship	<b>0.001</b>	<b>0.025</b>	<b>0.001</b>
	Communication	0.563	<b>0.001</b>	<b>0.001</b>
	Leadership	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>