Dataset 1.

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				пра	rison								
Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	P _{bonferron}
_arge	Control	Breeding Female	-0.1	-	Large	Control	Breeding Male	-0.1	-3.0833	5.19	-0.59398	549	1.000
Large	Control	Breeding Female	-0.1	-	Large	Control	Helpers	-0.1	7.5211	5.19	1.44889	549	1.000
arge	Control	Breeding Female	-0.1	-	Large	Treatment	Breeding Male	-0.1	-9.3881	4.86	-1.93024	538	1.000
Large	Control	Breeding Female	-0.1	-	Large	Treatment	Helpers	-0.1	8.5516	4.86	1.75826	538	1.000
Large	Control	Breeding Female	-0.1	-	Small	Control	Breeding Male	-0.1	-5.3333	5.20	-1.02623	536	1.000
Large	Control	Breeding Female	-0.1	-	Small	Control	Helpers	-0.1	8.5694	5.20	1.64892	536	1.000
_arge	Control	Breeding Female	-0.1	-	Small	Treatment	Breeding Male	-0.1	-1.3436	5.20	-0.25835	539	1.000
_arge	Control	Breeding Female	-0.1	-	Small	Treatment	Helpers	-0.1	7.6772	5.20	1.47613	539	1.000
_arge	Control	Breeding Female	0.1	-	Large	Control	Breeding Female	-0.1	5.0000	5.19	0.96322	549	1.000
_arge	Control	Breeding Female	0.1	-	Large	Control	Breeding Male	-0.1	1.9167	5.19	0.36923	549	1.000
Large	Control	Breeding Female	0.1	-	Large	Control	Breeding Male	0.1	0.7500	5.19	0.14448	549	1.000
Large	Control	Breeding Female	0.1	-	Large	Control	Helpers	-0.1	12.5211	5.19	2.41211	549	1.000
Large	Control	Breeding Female	0.1	-	Large	Control	Helpers	0.1	13.5054	5.19	2.60171	549	1.000
_arge	Control	Breeding Female	0.1	-	Large	Treatment	Breeding Female	-0.1	1.1744	4.86	0.24146	538	1.000
Large	Control	Breeding Female	0.1	-	Large	Treatment	Breeding Male	-0.1	-4.3881	4.86	-0.90222	538	1.000
_arge	Control	Breeding Female	0.1	-	Large	Treatment	Breeding Male	0.1	-7.8269	4.86	-1.60948	538	1.000
_arge	Control	Breeding Female	0.1	-	Large	Treatment	Helpers	-0.1	13.5516	4.86	2.78628	538	1.000
_arge	Control	Breeding Female	0.1	-	Large	Treatment	Helpers	0.1	14.0488	4.86	2.88889	538	1.000
_arge	Control	Breeding Female	0.1	-	Small	Control	Breeding Female	-0.1	9.5000	5.20	1.82798	536	1.000
_arge	Control	Breeding Female	0.1	-	Small	Control	Breeding Male	-0.1	-0.3333	5.20	-0.06414	536	1.000
Large	Control	Breeding Female	0.1	-	Small	Control	Breeding Male	0.1	-6.9167	5.20	-1.33090	536	1.000
Large	Control	Breeding Female	0.1	-	Small	Control	Helpers	-0.1	13.5694	5.20	2.61102	536	1.000
Large	Control	Breeding Female	0.1	-	Small	Control	Helpers	0.1	16.0625	5.20	3.09073	536	1.000
Large	Control	Breeding Female	0.1	-	Small	Treatment	Breeding Female	-0.1	10.0730	5.20	1.93679	539	1.000
Large	Control	Breeding Female	0.1	-	Small	Treatment	Breeding Male	-0.1	3.6564	5.20	0.70303	539	1.000
Large	Control	Breeding Female	0.1	-	Small	Treatment	Breeding Male	0.1	-30.2585	5.20	-5.81916	539	<.001
Large	Control	Breeding Female	0.1	-	Small	Treatment	Helpers	-0.1	12.6772	5.20	2.43750	539	1.000
_arge	Control	Breeding Female	0.1	-	Small	Treatment	Helpers	0.1	19.5332	5.20	3.75651	539	0.216
Large	Control	Breeding Female	24	-	Large	Control	Breeding Female	-0.1	2.0833	5.19	0.40134	549	1.000
_arge	Control	Breeding Female	24	-	Large	Control	Breeding Female	0.1	-2.9167	5.19	-0.56188	549	1.000
_arge	Control	Breeding Female	24	-	Large	Control	Breeding Female	4	0.8333	5.19	0.16054	549	1.000
_arge	Control	Breeding Female	24	-	Large	Control	Breeding Male	-0.1	-1.0000	5.19	-0.19264	549	1.000
_arge	Control	Breeding Female	24	-	Large	Control	Breeding Male	0.1	-2.1667	5.19	-0.41739	549	1.000
arge	Control	Breeding Female	24	-	Large	Control	Breeding Male	24	1.5833	5.19	0.30502	549	1.000

Table S1. Post-hoc	Comparisons fo	or Dominance Inde	x Analysis –	Treatment×Time	point×Group Size	•×Subject

GradenStand <t< th=""><th></th><th></th><th></th><th>Con</th><th>npa</th><th>rison</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>				Con	npa	rison								
Ling Control Perading Perading 24 - Linge Control Helpers -0.1 9.6045 5.19 1.6202 549 1.000 Large Control Perading Perading 24 - Large Control Helpers -0.1 9.6045 5.19 1.8023 549 1.000 Large Control Perading Perading 24 - Large Control Helpers 24 9.6045 5.19 1.8003 6.49 1.000 Large Control Perading Perading 24 - Large Control Helpers 4 9.485 5.19 1.8003 6.49 1.000 Large Control Perading Perading 24 - Large Treatment Breading Perading Parading 0.1 1.7.7.048 4.68 1.5019 6.33 1.000 Large Control Perading Perading 24 - Large Treatment Perading Perading 0.1 1.		Treatment	Subject				Treatment	Subject		Difference	SE	t	df	Pbonferroni
Ling Cultud Ferradia Preadi Preadia Preadi Preadia Preadia Preadi Preadia Preadia Preadi Prea	Large	Control	0	24	-	Large	Control		4	1.5000	5.19	0.28896	549	1.000
Large Control Ferrana 24 1 Large Control Ferrana 24 2 24 9.42 5.19 2.0398 5.49 1.000 Large Control Ferrana 24 2 9.429 5.19 1.8093 5.49 1.0000 Large Control Ferrana 2 1.arge Control Ferrana 2 4 1.4792 6.10 1.8093 5.49 1.0000 Large Control Ferrana 24 2 Large Treatment Ferrana 4 1.43189 4.86 2.9443 5.38 1.000 Large Control Ferrana Ferrana Ferrana Ferrana 6.0 1.07304 4.86 2.9292 5.38 1.000 Large Control Ferrana Ferrana Ferrana Ferrana 6.0 1.07304 4.86 2.9292 5.38 1.000 Large Control Ferrana 24 Large <	Large	Control		24	-	Large	Control	Helpers	-0.1	9.6045	5.19	1.85023	549	1.000
Large Control Freeding Fermale 24 9.242 9.242 5.19 1.8003 5.99 1.000 Large Control Freeding Fermale 24 2.4 9.248 5.19 1.8003 5.49 1.000 Large Control Freeding Fermale 24 2.4 2.4 2.4 9.2485 5.19 1.8003 5.49 1.0000 Large Control Freeding Fermale 2.4 2.4 Large Treatment Fermale Freeding Male 0.1 1.4336 4.86 0.30714 5.38 1.000 Large Control Freeding Fermale 2.1 7.2048 4.86 1.50120 5.38 1.000 Large Control Freeding Fermale 2.1 1.07436 4.86 2.20924 3.88 1.000 Large Control Freeding Freeding 2.1 10.0535 4.86 2.20923 5.38 1.000 Large Control Freeding Freeding	Large	Control	0	24	-	Large	Control	Helpers	0.1	10.5887	5.19	2.03984	549	1.000
Large Control Freeding Freeding Carter State Control Freeding Freeding Control Freeding	Large	Control	0	24	-	Large	Control	Helpers	24	9.4280	5.19	1.81623	549	1.000
Large Control Fernale 24 2 Large Fernale 24 2 Large Fernale 24 2 Large Treatment Fernale 0.1 1.4439 4.86 0.33021 5.83 1.000 Large Control Breading 24 2 Large Treatment Fereading 0.1 1.4430 4.86 0.330714 538 1.000 Large Control Breading 24 2 Large Treatment Fereading 0.1 -7.0348 4.86 -2.94483 538 1.000 Large Control Breading 24 2 Large Treatment Mace 0.1 -10.7436 4.86 -5.9122 538 -0.010 Large Control Breading 24 2 Large Treatment Helpers 0.1 11.0330 4.86 -5.9122 538 1.000 Large Control Breading 24 2 Smal	Large	Control		24	-	Large	Control	Helpers	4	9.3485	5.19	1.80093	549	1.000
Large LargeControlFemale Breading242Large LargeControlFemale Breading Breading242Large LargeControlFemale Breading Breading 242Large LargeTreatment Breading Male614.31894.860.30/nt5.881.000Large LargeControlBreading Breading Breading Breading24-Large LargeTreatment Male60.1-7.30484.86-2.50425.381.000Large ControlBreading Breading Breading24-Large LargeTreatment Male60.1-7.30484.86-2.50425.38-0.011Large ControlBreading Breading Breading24-Large LargeTreatment Male60.1-3.099364.86-5.51225.38-0.010Large ControlBreading Breading24-Large TreatmentHelpers-0.110.30504.862.186605.381.000Large ControlBreading Breading24-Large TreatmentHelpers0.111.13214.862.299135.381.000Large ControlBreading Breading24-Large TreatmentHelpers0.111.6334.862.304245.381.000Large ControlBreading Breading24-SmallControlBreading Breading0.111.64334.862.304245.361.	Large	Control	0	24	-	Large	Treatment		-0.1	-1.7423	4.86	-0.35822	538	1.000
Large Control Freenale 24 1 Alse 2.944A3 535 1.000 Large Control Breenale 24 - Large Treatment Made 0.1 -7.304B 4.86 2.9924 538 1.000 Large Control Breeding 24 - Large Treatment Made 0.1 -7.304B 4.86 -2.9924 538 1.000 Large Control Breeding 24 - Large Treatment Made 24 - 26.806 4.86 -5.5122 538 - 0.00 Large Control Breeding 24 - Large Treatment Melpers 0.1 11.1321 4.86 2.9813 538 1.000 Large Control Breeding 24 1.6433 4.86 2.9124 538 1.000 Large Control Breeding 24 2 Smad Control Breeding	Large	Control	0	24	-	Large	Treatment	0	0.1	-1.4936	4.86	-0.30714	538	1.000
Large Control Fermale 24 2 Large Treatment Male 2.1 -7.3048 4.86 -1.90190 938 1.000 Large Control Breeding 24 - Large Treatment Male 0.1 -10.7436 4.86 -2.20924 538 1.000 Large Control Breeding 24 - Large Treatment Male 0.1 -10.7436 4.86 -2.20924 538 -0.01 Large Control Breeding 24 - Large Treatment Male 24 - 1.00 338 -0.01 Large Control Breeding 24 - Large Treatment Helpers 0.1 11.1321 4.86 2.81724 538 1.000 Large Control Breeding 24 1.6433 4.86 2.39424 538 1.000 Large Control Breeding 0.1 Breeding	Large	Control	0	24	-	Large	Treatment	0	4	14.3189	4.86	2.94443	538	1.000
Large Control Fermale 24 - Large Interaction Male 0.1 -10.7436 4.86 -2.20924 533 1.000 Large Control Breeding Fermale 24 - Large Treatment Breeding Male 24 -30.9936 4.86 -5.51222 538 -0.01 Large Control Breeding Fermale 24 - Large Treatment Helpers -0.1 10.6350 4.86 -5.51222 538 1.000 Large Control Breeding Fermale 24 - Large Treatment Helpers 0.1 11.1321 4.86 2.20913 538 1.000 Large Control Breeding Fermale 24 - Large Treatment Helpers 4 11.6433 4.86 2.39424 538 1.000 Large Control Breeding Fermale 24 - Small Control Breeding Fermale 0.1 3.9167 5.20	Large	Control	0	24	-	Large	Treatment	0	-0.1	-7.3048	4.86	-1.50190	538	1.000
Large Control Female 24 - Large Interaction Male 24 - 2.86 - 5.51222 5.38 <<.001 Large Control Breeding 24 - Large Treatment Breeding 4 -30.9936 4.86 -6.3730 538 <.001	Large	Control	•	24	-	Large	Treatment	0	0.1	-10.7436	4.86	-2.20924	538	1.000
Large Control Female 24 Large Instantion Male 4 -303939 4.86 -6.37330 538 < 4.00 Large Control Breeding Female 24 - Large Treatment Helpers 0.1 10.6350 4.86 2.18660 538 1.000 Large Control Breeding Female 24 - Large Treatment Helpers 0.1 11.1321 4.86 2.28913 538 1.000 Large Control Breeding Female 24 - Large Treatment Helpers 24 11.6433 4.86 2.39424 538 1.000 Large Control Breeding Female 24 - Small Control Breeding Female 0.1 3.9167 5.20 0.75364 536 1.000 Large Control Breeding Female 24 - Small Control Breeding Female 0.1 3.9167 5.20 0.62536 5	Large	Control	0	24	-	Large	Treatment	0	24	-26.8061	4.86	-5.51222	538	<.001
Large Control Fernale 24 2 Large Instantient Heipers 0.1 10.0330 4.86 2.16800 536 1.000 Large Control Breeding Fernale 24 - Large Treatment Helpers 0.1 11.1321 4.86 2.28913 538 1.000 Large Control Breeding Fernale 24 - Large Treatment Helpers 24 12.7277 4.86 2.61724 538 1.000 Large Control Breeding Fernale 24 - Large Treatment Helpers 4 11.6433 4.86 2.39424 538 1.000 Large Control Breeding Fernale 24 - Small Control Breeding Fernale 0.1 3.9167 5.20 1.0661 536 1.000 Large Control Breeding Fernale 24 - Small Control Breeding Male 0.1 -3.2500 5.20	Large	Control		24	-	Large	Treatment	0	4	-30.9936	4.86	-6.37330	538	<.001
	Large	Control		24	-	Large	Treatment	Helpers	-0.1	10.6350	4.86	2.18660	538	1.000
Large Control Female 24 Large Treatment Helpers 24 12.727 4.86 2.61724 5.38 1.000 Large Control Female 24 - Large Treatment Helpers 4 11.6433 4.86 2.51724 5.38 1.000 Large Control Breeding Female 24 - Small Control Breeding Female 0.1 6.5833 5.20 1.26676 5.36 1.000 Large Control Breeding Female 0.1 3.9167 5.20 0.75364 536 1.000 Large Control Breeding Female 0.1 3.9167 5.20 0.62536 536 1.000 Large Control Breeding Female 0.1 Small Control Breeding Male 0.1 9.833 5.20 0.62536 536 1.000 Large Control Breeding Female 24 Small Control Breeding Male 0.1	Large	Control		24	-	Large	Treatment	Helpers	0.1	11.1321	4.86	2.28913	538	1.000
	Large	Control	0	24	-	Large	Treatment	Helpers	24	12.7277	4.86	2.61724	538	1.000
Large Control Female 24 - Small Control Female - 1.000 Large Control Breeding Female 24 - Small Control Breeding Female 0.1 3.9167 5.20 0.75364 536 1.000 Large Control Breeding Female 24 - Small Control Breeding Female 4 5.7500 5.20 1.0641 536 1.000 Large Control Breeding Female 24 - Small Control Breeding Male -0.1 -3.2500 5.20 -0.62536 536 1.000 Large Control Breeding Female 24 - Small Control Breeding Male 0.1 -9.8333 5.20 -0.8536 536 1.000 Large Control Breeding Female 24 - Small Control Breeding Male 4 -3.0833 5.20 -0.59329 536 1.000 Larg	Large	Control	•	24	-	Large	Treatment	Helpers	4	11.6433	4.86	2.39424	538	1.000
Large Control Female 24 - Small Control Female 0.1 3.9167 5.20 0.75364 536 1.000 Large Control Breeding Female 24 - Small Control Breeding Female 4 5.7500 5.20 -0.62536 536 1.000 Large Control Breeding Female 24 - Small Control Breeding Male 0.1 -3.2500 5.20 -0.62536 536 1.000 Large Control Breeding Female 24 - Small Control Breeding Male 0.1 -9.8333 5.20 -0.62536 536 1.000 Large Control Breeding Female 24 - Small Control Breeding Male 4 -3.0833 5.20 -0.69329 536 1.000 Large Control Breeding Female 24 - Small Control Helpers -0.1 10.6528 5.20 2.	Large	Control		24	-	Small	Control		-0.1	6.5833	5.20	1.26676	536	1.000
Large Control Female 24 - Small Control Female 4 5.7500 5.20 1.10641 556 1.000 Large Control Breeding Female 24 - Small Control Breeding Male -0.1 -3.2500 5.20 -0.62536 536 1.000 Large Control Breeding Female 24 - Small Control Breeding Male 0.1 -9.8333 5.20 -1.89212 536 1.000 Large Control Breeding Female 24 - Small Control Breeding Male 24 -4.5833 5.20 -0.88192 536 1.000 Large Control Breeding Female 24 - Small Control Breeding Male 4 -3.0833 5.20 -0.59329 536 1.000 Large Control Breeding Female 24 - Small Control Helpers 0.1 13.1458 5.20 2.04979 536 1.000 Large Control Breeding Female 2	Large	Control	Female	24	-	Small	Control		0.1	3.9167	5.20	0.75364	536	1.000
	Large	Control	Female	24	-	Small	Control	Female	4	5.7500	5.20	1.10641	536	1.000
LargeControlFemale 24 -SmallControlMale0.1-9.3335.20-1.992125361.000LargeControlBreeding Female24-SmallControlBreeding Male24-4.58335.20-0.881925361.000LargeControlBreeding Female24-SmallControlBreeding Male4-3.08335.20-0.593295361.000LargeControlBreeding Female24-SmallControlHelpers-0.110.65285.202.049795361.000LargeControlBreeding Female24-SmallControlHelpers0.113.14585.202.529505361.000LargeControlBreeding Female24-SmallControlHelpers0.113.14585.202.529505361.000LargeControlBreeding Female24-SmallControlHelpers2411.21535.202.085875361.000LargeControlBreeding Female24-SmallControlHelpers410.84035.202.085875361.000LargeControlBreeding Female24-SmallTreatmentBreeding Female0.17.15645.201.375995391.000LargeControlBreeding Female24	Large	Control	Female	24	-	Small	Control		-0.1	-3.2500	5.20	-0.62536	536	1.000
Large Control Female 24 - Small Control Male 24 -4.8833 5.20 -0.88192 536 1.000 Large Control Breeding 24 - Small Control Breeding 4 -3.0833 5.20 -0.59329 536 1.000 Large Control Breeding 24 - Small Control Helpers -0.1 10.6528 5.20 2.04979 536 1.000 Large Control Breeding 24 - Small Control Helpers 0.1 13.1458 5.20 2.04979 536 1.000 Large Control Breeding 24 - Small Control Helpers 0.1 13.1458 5.20 2.04979 536 1.000 Large Control Breeding 24 - Small Control Helpers 24 11.2153 5.20 2.08587 536 1.000 Large Control Breeding 24 - Small Treatment <td>Large</td> <td>Control</td> <td></td> <td>24</td> <td>-</td> <td>Small</td> <td>Control</td> <td>0</td> <td>0.1</td> <td>-9.8333</td> <td>5.20</td> <td>-1.89212</td> <td>536</td> <td>1.000</td>	Large	Control		24	-	Small	Control	0	0.1	-9.8333	5.20	-1.89212	536	1.000
Large Control Female 24 - Small Control Male 4 -3.0833 5.20 -0.59329 536 1.000 Large Control Breeding Female 24 - Small Control Helpers -0.1 10.6528 5.20 2.04979 536 1.000 Large Control Breeding Female 24 - Small Control Helpers 0.1 13.1458 5.20 2.52950 536 1.000 Large Control Breeding Female 24 - Small Control Helpers 0.1 13.1458 5.20 2.52950 536 1.000 Large Control Breeding Female 24 - Small Control Helpers 24 10.8403 5.20 2.15803 536 1.000 Large Control Breeding Female 24 - Small Treatment Breeding Female -0.1 7.1564 5.20 1.37599 539 1.000 Large Control Breeding Female 24 <td< td=""><td>Large</td><td>Control</td><td></td><td>24</td><td>-</td><td>Small</td><td>Control</td><td>0</td><td>24</td><td>-4.5833</td><td>5.20</td><td>-0.88192</td><td>536</td><td>1.000</td></td<>	Large	Control		24	-	Small	Control	0	24	-4.5833	5.20	-0.88192	536	1.000
LargeControlFemale24-SmallControlHelpers-0.110.85285.202.049795.361.000LargeControlBreeding Female24-SmallControlHelpers0.113.14585.202.529505361.000LargeControlBreeding Female24-SmallControlHelpers2411.21535.202.158035361.000LargeControlBreeding Female24-SmallControlHelpers2410.84035.202.085875361.000LargeControlBreeding Female24-SmallControlHelpers410.84035.202.085875361.000LargeControlBreeding Female24-SmallTreatmentBreeding Female-0.17.15645.201.375995391.000LargeControlBreeding Female24-SmallTreatmentBreeding Female0.118.90825.203.636325390.342LargeControlBreeding Female24-SmallTreatmentBreeding Female-0.10.73975.200.142235391.000LargeControlBreeding Female24-SmallTreatmentBreeding Male-0.10.73975.200.142235391.000LargeControlBreedin	Large	Control		24	-	Small	Control	0	4	-3.0833	5.20	-0.59329	536	1.000
LargeControlFemale 24 -SmallControlHelpers 0.1 13.1438 5.20 2.52950 536 1.000 LargeControlBreeding Female 24 -SmallControlHelpers 24 11.2153 5.20 2.15803 536 1.000 LargeControlBreeding Female 24 -SmallControlHelpers 4 10.8403 5.20 2.08587 536 1.000 LargeControlBreeding Female 24 -SmallControlHelpers 4 10.8403 5.20 2.08587 536 1.000 LargeControlBreeding Female 24 -SmallControlHelpers 4 10.8403 5.20 2.08587 536 1.000 LargeControlBreeding Female 24 -SmallTreatmentBreeding Female 0.1 7.1564 5.20 1.37599 539 1.000 LargeControlBreeding Female 24 -SmallTreatmentBreeding Female 0.1 18.9082 5.20 2.24204 539 1.000 LargeControlBreeding Female 24 -SmallTreatmentBreeding Male 0.1 18.9082 5.20 2.24204 539 1.000 LargeControlBreeding Female 24 -SmallTreatmentBreeding Male 0.1 0.7397 <	Large	Control		24	-	Small	Control	Helpers	-0.1	10.6528	5.20	2.04979	536	1.000
LargeControlFemale24-SmallControlHelpers2411.21535.202.158035361.000LargeControlBreeding Female24-SmallControlHelpers410.84035.202.085875361.000LargeControlBreeding Female24-SmallControlHelpers410.84035.202.085875361.000LargeControlBreeding Female24-SmallTreatmentBreeding Female-0.17.15645.201.375995391.000LargeControlBreeding Female24-SmallTreatmentBreeding Female0.118.90825.203.636325390.342LargeControlBreeding Female24-SmallTreatmentBreeding Female411.65825.202.242045391.000LargeControlBreeding Female24-SmallTreatmentBreeding Male-0.10.73975.200.142235391.000LargeControlBreeding Female24-SmallTreatmentBreeding Male0.1-33.17525.20-6.38008539<.001	Large	Control	0	24	-	Small	Control	Helpers	0.1	13.1458	5.20	2.52950	536	1.000
LargeControlFemale24-SmallControlHelpers410.84035.202.085875361.000LargeControlBreeding Female24-SmallTreatmentBreeding Female-0.1 7.1564 5.20 1.37599 539 1.000 LargeControlBreeding Female24-SmallTreatmentBreeding Female 0.1 18.9082 5.20 1.37599 539 1.000 LargeControlBreeding Female24-SmallTreatmentBreeding Female 0.1 18.9082 5.20 2.24204 539 0.342 LargeControlBreeding Female 24 -SmallTreatmentBreeding Female 4 11.6582 5.20 2.24204 539 1.000 LargeControlBreeding Female 24 -SmallTreatmentBreeding Male -0.1 0.7397 5.20 0.14223 539 1.000 LargeControlBreeding Female 24 -SmallTreatmentBreeding Male 0.1 -33.1752 5.20 -6.38008 539 $<.001$ LargeControlBreeding Female 24 -SmallTreatmentBreeding Male 24 -12.4252 5.20 -2.38955 539 1.000 LargeControlBreeding Female 24 -SmallTreatmentBreeding <td>Large</td> <td>Control</td> <td>0</td> <td>24</td> <td>-</td> <td>Small</td> <td>Control</td> <td>Helpers</td> <td>24</td> <td>11.2153</td> <td>5.20</td> <td>2.15803</td> <td>536</td> <td>1.000</td>	Large	Control	0	24	-	Small	Control	Helpers	24	11.2153	5.20	2.15803	536	1.000
LargeControlFemale24-SmallTreatmentFemale-0.17.15645.201.375995.391.000LargeControlBreeding Female24-SmallTreatmentBreeding Female0.118.90825.203.636325390.342LargeControlBreeding Female24-SmallTreatmentBreeding Female411.65825.202.242045391.000LargeControlBreeding Female24-SmallTreatmentBreeding Male-0.10.73975.200.142235391.000LargeControlBreeding Female24-SmallTreatmentBreeding Male-0.10.73975.200.142235391.000LargeControlBreeding Female24-SmallTreatmentBreeding Male-0.1-33.17525.20-6.38008539<.001	Large	Control	0	24	-	Small	Control	Helpers	4	10.8403	5.20	2.08587	536	1.000
Large Control Female 24 - Small Treatment Female 0.1 18.9082 5.20 3.63632 5.39 0.342 Large Control Breeding Female 24 - Small Treatment Breeding Female 4 11.6582 5.20 3.63632 539 1.000 Large Control Breeding Female 24 - Small Treatment Breeding Male -0.1 0.7397 5.20 0.14223 539 1.000 Large Control Breeding Female 24 - Small Treatment Breeding Male -0.1 0.7397 5.20 0.14223 539 1.000 Large Control Breeding Female 24 - Small Treatment Breeding Male 0.1 -33.1752 5.20 -6.38008 539 <.001 Large Control Breeding Female 24 - Small Treatment Breeding Male 24 -12.4252 5.20 -2.38955 539 1.000 Large Control Breeding	Large	Control		24	-	Small	Treatment		-0.1	7.1564	5.20	1.37599	539	1.000
Large Control Female 24 - Small Treatment Female 4 11.0582 5.20 2.24204 539 1.000 Large Control Breeding Female 24 - Small Treatment Breeding Male -0.1 0.7397 5.20 0.14223 539 1.000 Large Control Breeding Female 24 - Small Treatment Breeding Male 0.1 -33.1752 5.20 -6.38008 539 <.001 Large Control Breeding Female 24 - Small Treatment Breeding Male 24 - 23.1752 5.20 - 6.38008 539 - 	Large	Control	0	24	-	Small	Treatment	0	0.1	18.9082	5.20	3.63632	539	0.342
Large Control Female 24 - Small Treatment Male - 0.1 0.1397 5.20 0.14223 539 1.000 Large Control Breeding Female 24 - Small Treatment Breeding Male 0.1 -33.1752 5.20 -6.38008 539 <.001	Large	Control	0	24	-	Small	Treatment	0	4	11.6582	5.20	2.24204	539	1.000
Large Control Female 24 - Small Ireatment Male 0.1 -33.1752 5.20 -6.38008 539 <.001 Large Control Breeding Female 24 - Small Treatment Breeding Male 24 -12.4252 5.20 -2.38955 539 1.000 Large Control Breeding Breeding 24 - Small Treatment Breeding Male 24 -10.2585 5.20 -1.97286 539 1.000	Large	Control	0	24	-	Small	Treatment	0	-0.1	0.7397	5.20	0.14223	539	1.000
Large Control Female 24 - Small Treatment Male -12.4252 5.20 -2.38955 539 1.000 Large Control Breeding 24 - Small Treatment Breeding 4 -10.2585 5.20 -1.97286 539 1.000	Large	Control	0	24	-	Small	Treatment	Male	0.1	-33.1752	5.20	-6.38008	539	<.001
	Large	Control		24	-	Small	Treatment		24	-12.4252	5.20	-2.38955	539	1.000
	Large	Control		24	-	Small	Treatment		4	-10.2585	5.20	-1.97286	539	1.000

Group			Time	10.04	rison Group			Time					
Size	Treatment	Subject	Point		Size	Treatment	Subject	Point	Difference	SE	t	df	Pbonferroni
Large	Control	Breeding Female	24	-	Small	Treatment	Helpers	-0.1	9.7605	5.20	1.87670	539	1.000
Large	Control	Breeding Female	24	-	Small	Treatment	Helpers	0.1	16.6165	5.20	3.19560	539	1.000
Large	Control	Breeding Female	24	-	Small	Treatment	Helpers	24	13.9915	5.20	2.69077	539	1.000
Large	Control	Breeding Female	24	-	Small	Treatment	Helpers	4	12.3040	5.20	2.36624	539	1.000
Large	Control	Breeding Female	4	-	Large	Control	Breeding Female	-0.1	1.2500	5.19	0.24080	549	1.000
Large	Control	Breeding Female	4	-	Large	Control	Breeding Female	0.1	-3.7500	5.19	-0.72241	549	1.000
Large	Control	Breeding Female	4	-	Large	Control	Breeding Male	-0.1	-1.8333	5.19	-0.35318	549	1.000
Large	Control	Breeding Female	4	-	Large	Control	Breeding Male	0.1	-3.0000	5.19	-0.57793	549	1.000
Large	Control	Breeding Female	4	-	Large	Control	Breeding Male	4	0.6667	5.19	0.12843	549	1.000
Large	Control	Breeding Female	4	-	Large	Control	Helpers	-0.1	8.7711	5.19	1.68970	549	1.000
Large	Control	Breeding Female	4	-	Large	Control	Helpers	0.1	9.7554	5.19	1.87930	549	1.000
Large	Control	Breeding Female	4	-	Large	Control	Helpers	4	8.5152	5.19	1.64039	549	1.000
Large	Control	Breeding Female	4	-	Large	Treatment	Breeding Female	-0.1	-2.5756	4.86	-0.52956	538	1.000
Large	Control	Breeding Female	4	-	Large	Treatment	Breeding Female	0.1	-2.3269	4.86	-0.47850	538	1.000
Large	Control	Breeding Female	4	-	Large	Treatment	Breeding Male	-0.1	-8.1381	4.86	-1.67324	538	1.000
Large	Control	Breeding Female	4	-	Large	Treatment	Breeding Male	0.1	-11.5769	4.86	-2.38060	538	1.000
Large	Control	Breeding Female	4	-	Large	Treatment	Breeding Male	4	-31.8269	4.86	-6.54467	538	<.001
Large	Control	Breeding Female	4	-	Large	Treatment	Helpers	-0.1	9.8016	4.86	2.01526	538	1.000
Large	Control	Breeding Female	4	-	Large	Treatment	Helpers	0.1	10.2988	4.86	2.11777	538	1.000
Large	Control	Breeding Female	4	-	Large	Treatment	Helpers	4	10.8100	4.86	2.22288	538	1.000
Large	Control	Breeding Female	4	-	Small	Control	Breeding Female	-0.1	5.7500	5.20	1.10641	536	1.000
Large	Control	Breeding Female	4	-	Small	Control	Breeding Female	0.1	3.0833	5.20	0.59329	536	1.000
Large	Control	Breeding Female	4	-	Small	Control	Breeding Male	-0.1	-4.0833	5.20	-0.78571	536	1.000
Large	Control	Breeding Female	4	-	Small	Control	Breeding Male	0.1	-10.6667	5.20	-2.05247	536	1.000
Large	Control	Breeding Female	4	-	Small	Control	Breeding Male	4	-3.9167	5.20	-0.75364	536	1.000
Large	Control	Breeding Female	4	-	Small	Control	Helpers	-0.1	9.8194	5.20	1.88945	536	1.000
Large	Control	Breeding Female	4	-	Small	Control	Helpers	0.1	12.3125	5.20	2.36916	536	1.000
Large	Control	Breeding Female	4	-	Small	Control	Helpers	4	10.0069	5.20	1.92552	536	1.000
Large	Control	Breeding Female	4	-	Small	Treatment	Breeding Female	-0.1	6.3230	5.20	1.21576	539	1.000
Large	Control	Breeding Female	4	-	Small	Treatment	Breeding Female	0.1	18.0748	5.20	3.47606	539	0.620
Large	Control	Breeding Female	4	-	Small	Treatment	Breeding Male	-0.1	-0.0936	5.20	-0.01800	539	1.000
Large	Control	Breeding Female	4	-	Small	Treatment	Breeding Male	0.1	-34.0085	5.20	-6.54034	539	<.001
Large	Control	Breeding Female	4	-	Small	Treatment	Breeding Male	4	-11.0918	5.20	-2.13313	539	1.000
Large	Control	Breeding Female	4	-	Small	Treatment	Helpers	-0.1	8.9272	5.20	1.71647	539	1.000

Large	Treatment	Subject	Time										
			Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	Pbonferroni
Large	Control	Breeding Female	4	-	Small	Treatment	Helpers	0.1	15.7832	5.20	3.03533	539	1.000
	Control	Breeding Female	4	-	Small	Treatment	Helpers	4	11.4707	5.20	2.20598	539	1.000
Large	Control	Breeding Male	-0.1	-	Large	Control	Helpers	-0.1	10.6045	5.19	2.04288	549	1.000
Large	Control	Breeding Male	-0.1	-	Large	Treatment	Helpers	-0.1	11.6350	4.86	2.39221	538	1.000
Large	Control	Breeding Male	-0.1	-	Small	Control	Helpers	-0.1	11.6528	5.20	2.24221	536	1.000
Large	Control	Breeding Male	-0.1	-	Small	Treatment	Helpers	-0.1	10.7605	5.20	2.06898	539	1.000
Large	Control	Breeding Male	0.1	-	Large	Control	Breeding Female	-0.1	4.2500	5.19	0.81873	549	1.000
Large	Control	Breeding Male	0.1	-	Large	Control	Breeding Male	-0.1	1.1667	5.19	0.22475	549	1.000
Large	Control	Breeding Male	0.1	-	Large	Control	Helpers	-0.1	11.7711	5.19	2.26763	549	1.000
Large	Control	Breeding Male	0.1	-	Large	Control	Helpers	0.1	12.7554	5.19	2.45723	549	1.000
Large	Control	Breeding Male	0.1	-	Large	Treatment	Breeding Female	-0.1	0.4244	4.86	0.08726	538	1.000
Large	Control	Breeding Male	0.1	-	Large	Treatment	Breeding Male	-0.1	-5.1381	4.86	-1.05642	538	1.000
Large	Control	Breeding Male	0.1	-	Large	Treatment	Helpers	-0.1	12.8016	4.86	2.63208	538	1.000
Large	Control	Breeding Male	0.1	-	Large	Treatment	Helpers	0.1	13.2988	4.86	2.73467	538	1.000
Large	Control	Breeding Male	0.1	-	Small	Control	Breeding Female	-0.1	8.7500	5.20	1.68366	536	1.000
Large	Control	Breeding Male	0.1	-	Small	Control	Breeding Male	-0.1	-1.0833	5.20	-0.20845	536	1.000
Large	Control	Breeding Male	0.1	-	Small	Control	Helpers	-0.1	12.8194	5.20	2.46670	536	1.000
Large	Control	Breeding Male	0.1	-	Small	Control	Helpers	0.1	15.3125	5.20	2.94641	536	1.000
Large	Control	Breeding Male	0.1	-	Small	Treatment	Breeding Female	-0.1	9.3230	5.20	1.79258	539	1.000
Large	Control	Breeding Male	0.1	-	Small	Treatment	Breeding Male	-0.1	2.9064	5.20	0.55882	539	1.000
Large	Control	Breeding Male	0.1	-	Small	Treatment	Helpers	-0.1	11.9272	5.20	2.29330	539	1.000
Large	Control	Breeding Male	0.1	-	Small	Treatment	Helpers	0.1	18.7832	5.20	3.61228	539	0.374
Large	Control	Breeding Male	24	-	Large	Control	Breeding Female	-0.1	0.5000	5.19	0.09632	549	1.000
Large	Control	Breeding Male	24	-	Large	Control	Breeding Female	0.1	-4.5000	5.19	-0.86689	549	1.000
Large	Control	Breeding Male	24	-	Large	Control	Breeding Female	4	-0.7500	5.19	-0.14448	549	1.000
Large	Control	Breeding Male	24	-	Large	Control	Breeding Male	-0.1	-2.5833	5.19	-0.49766	549	1.000
Large	Control	Breeding Male	24	-	Large	Control	Breeding Male	0.1	-3.7500	5.19	-0.72241	549	1.000
Large	Control	Breeding Male	24	-	Large	Control	Breeding Male	4	-0.0833	5.19	-0.01605	549	1.000
Large	Control	Breeding Male	24	-	Large	Control	Helpers	-0.1	8.0211	5.19	1.54521	549	1.000
Large	Control	Breeding Male	24	-	Large	Control	Helpers	0.1	9.0054	5.19	1.73482	549	1.000
Large	Control	Breeding Male	24	-	Large	Control	Helpers	24	7.8446	5.19	1.51122	549	1.000
Large	Control	Breeding Male	24	-	Large	Control	Helpers	4	7.7652	5.19	1.49591	549	1.000
Large	Control	Breeding Male	24	-	Large	Treatment	Breeding Female	-0.1	-3.3256	4.86	-0.68376	538	1.000
Large	Control	Breeding Male	24	-	Large	Treatment	Breeding Female	0.1	-3.0769	4.86	-0.63272	538	1.000

			Cor	npa	rison								
Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	Pbonferroni
Large	Control	Breeding Male	24	-	Large	Treatment	Breeding Female	4	12.7356	4.86	2.61885	538	1.000
Large	Control	Breeding Male	24	-	Large	Treatment	Breeding Male	-0.1	-8.8881	4.86	-1.82744	538	1.000
Large	Control	Breeding Male	24	-	Large	Treatment	Breeding Male	0.1	-12.3269	4.86	-2.53483	538	1.000
Large	Control	Breeding Male	24	-	Large	Treatment	Breeding Male	4	-32.5769	4.86	-6.69889	538	<.001
Large	Control	Breeding Male	24	-	Large	Treatment	Helpers	-0.1	9.0516	4.86	1.86106	538	1.000
Large	Control	Breeding Male	24	-	Large	Treatment	Helpers	0.1	9.5488	4.86	1.96355	538	1.000
Large	Control	Breeding Male	24	-	Large	Treatment	Helpers	24	11.1444	4.86	2.29166	538	1.000
Large	Control	Breeding Male	24	-	Large	Treatment	Helpers	4	10.0600	4.86	2.06866	538	1.000
Large	Control	Breeding Male	24	-	Small	Control	Breeding Female	-0.1	5.0000	5.20	0.96209	536	1.000
Large	Control	Breeding Male	24	-	Small	Control	Breeding Female	0.1	2.3333	5.20	0.44898	536	1.000
Large	Control	Breeding Male	24	-	Small	Control	Breeding Female	4	4.1667	5.20	0.80174	536	1.000
Large	Control	Breeding Male	24	-	Small	Control	Breeding Male	-0.1	-4.8333	5.20	-0.93002	536	1.000
Large	Control	Breeding Male	24	-	Small	Control	Breeding Male	0.1	-11.4167	5.20	-2.19678	536	1.000
Large	Control	Breeding Male	24	-	Small	Control	Breeding Male	4	-4.6667	5.20	-0.89795	536	1.000
Large	Control	Breeding Male	24	-	Small	Control	Helpers	-0.1	9.0694	5.20	1.74513	536	1.000
Large	Control	Breeding Male	24	-	Small	Control	Helpers	0.1	11.5625	5.20	2.22484	536	1.000
Large	Control	Breeding Male	24	-	Small	Control	Helpers	24	9.6319	5.20	1.85337	536	1.000
Large	Control	Breeding Male	24	-	Small	Control	Helpers	4	9.2569	5.20	1.78121	536	1.000
Large	Control	Breeding Male	24	-	Small	Treatment	Breeding Female	-0.1	5.5730	5.20	1.07155	539	1.000
Large	Control	Breeding Male	24	-	Small	Treatment	Breeding Female	0.1	17.3248	5.20	3.33182	539	1.000
Large	Control	Breeding Male	24	-	Small	Treatment	Breeding Female	4	10.0748	5.20	1.93754	539	1.000
Large	Control	Breeding Male	24	-	Small	Treatment	Breeding Male	-0.1	-0.8436	5.20	-0.16221	539	1.000
Large	Control	Breeding Male	24	-	Small	Treatment	Breeding Male	0.1	-34.7585	5.20	-6.68458	539	<.001
Large	Control	Breeding Male	24	-	Small	Treatment	Breeding Male	4	-11.8418	5.20	-2.27736	539	1.000
Large	Control	Breeding Male	24	-	Small	Treatment	Helpers	-0.1	8.1772	5.20	1.57227	539	1.000
Large	Control	Breeding Male	24	-	Small	Treatment	Helpers	0.1	15.0332	5.20	2.89110	539	1.000
Large	Control	Breeding Male	24	-	Small	Treatment	Helpers	24	12.4082	5.20	2.38627	539	1.000
Large	Control	Breeding Male	24	-	Small	Treatment	Helpers	4	10.7207	5.20	2.06174	539	1.000
Large	Control	Breeding Male	4	-	Large	Control	Breeding Female	-0.1	0.5833	5.19	0.11238	549	1.000
Large	Control	Breeding Male	4	-	Large	Control	Breeding Female	0.1	-4.4167	5.19	-0.85084	549	1.000
Large	Control	Breeding Male	4	-	Large	Control	Breeding Male	-0.1	-2.5000	5.19	-0.48161	549	1.000
Large	Control	Breeding Male	4	-	Large	Control	Breeding Male	0.1	-3.6667	5.19	-0.70636	549	1.000
Large	Control	Breeding Male	4	-	Large	Control	Helpers	-0.1	8.1045	5.19	1.56127	549	1.000
Large	Control	Breeding Male	4	-	Large	Control	Helpers	0.1	9.0887	5.19	1.75087	549	1.000

			Con	npa	rison								
Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	p _{bonferroni}
Large	Control	Breeding Male	4	-	Large	Control	Helpers	4	7.8485	5.19	1.51196	549	1.000
Large	Control	Breeding Male	4	-	Large	Treatment	Breeding Female	-0.1	-3.2423	4.86	-0.66663	538	1.000
Large	Control	Breeding Male	4	-	Large	Treatment	Breeding Female	0.1	-2.9936	4.86	-0.61559	538	1.000
Large	Control	Breeding Male	4	-	Large	Treatment	Breeding Male	-0.1	-8.8048	4.86	-1.81031	538	1.000
Large	Control	Breeding Male	4	-	Large	Treatment	Breeding Male	0.1	-12.2436	4.86	-2.51769	538	1.000
Large	Control	Breeding Male	4	-	Large	Treatment	Helpers	-0.1	9.1350	4.86	1.87819	538	1.000
Large	Control	Breeding Male	4	-	Large	Treatment	Helpers	0.1	9.6321	4.86	1.98068	538	1.000
Large	Control	Breeding Male	4	-	Large	Treatment	Helpers	4	10.1433	4.86	2.08579	538	1.000
Large	Control	Breeding Male	4	-	Small	Control	Breeding Female	-0.1	5.0833	5.20	0.97813	536	1.000
Large	Control	Breeding Male	4	-	Small	Control	Breeding Female	0.1	2.4167	5.20	0.46501	536	1.000
Large	Control	Breeding Male	4	-	Small	Control	Breeding Male	-0.1	-4.7500	5.20	-0.91399	536	1.000
Large	Control	Breeding Male	4	-	Small	Control	Breeding Male	0.1	-11.3333	5.20	-2.18075	536	1.000
Large	Control	Breeding Male	4	-	Small	Control	Helpers	-0.1	9.1528	5.20	1.76117	536	1.000
Large	Control	Breeding Male	4	-	Small	Control	Helpers	0.1	11.6458	5.20	2.24088	536	1.000
Large	Control	Breeding Male	4	-	Small	Control	Helpers	4	9.3403	5.20	1.79724	536	1.000
Large	Control	Breeding Male	4	-	Small	Treatment	Breeding Female	-0.1	5.6564	5.20	1.08758	539	1.000
Large	Control	Breeding Male	4	-	Small	Treatment	Breeding Female	0.1	17.4082	5.20	3.34785	539	0.983
Large	Control	Breeding Male	4	-	Small	Treatment	Breeding Male	-0.1	-0.7603	5.20	-0.14619	539	1.000
Large	Control	Breeding Male	4	-	Small	Treatment	Breeding Male	0.1	-34.6752	5.20	-6.66855	539	<.001
Large	Control	Breeding Male	4	-	Small	Treatment	Helpers	-0.1	8.2605	5.20	1.58829	539	1.000
Large	Control	Breeding Male	4	-	Small	Treatment	Helpers	0.1	15.1165	5.20	2.90712	539	1.000
Large	Control	Breeding Male	4	-	Small	Treatment	Helpers	4	10.8040	5.20	2.07777	539	1.000
Large	Control	Helpers	0.1	-	Large	Control	Breeding Female	-0.1	-8.5054	5.19	-1.63850	549	1.000
Large	Control	Helpers	0.1	-	Large	Control	Breeding Male	-0.1	-11.5887	5.19	-2.23248	549	1.000
Large	Control	Helpers	0.1	-	Large	Control	Helpers	-0.1	-0.9842	5.19	-0.18960	549	1.000
Large	Control	Helpers	0.1	-	Large	Treatment	Breeding Female	-0.1	-12.3310	4.86	-2.53531	538	1.000
Large	Control	Helpers	0.1	-	Large	Treatment	Breeding Male	-0.1	-17.8935	4.86	-3.67899	538	0.291
Large	Control	Helpers	0.1	-	Large	Treatment	Helpers	-0.1	0.0463	4.86	0.00951	538	1.000
Large	Control	Helpers	0.1	-	Small	Control	Breeding Female	-0.1	-4.0054	5.20	-0.77071	536	1.000
Large	Control	Helpers	0.1	-	Small	Control	Breeding Male	-0.1	-13.8387	5.20	-2.66282	536	1.000
Large	Control	Helpers	0.1	-	Small	Control	Helpers	-0.1	0.0641	5.20	0.01233	536	1.000
Large	Control	Helpers	0.1	-	Small	Treatment	Breeding Female	-0.1	-3.4323	5.20	-0.65995	539	1.000
Large	Control	Helpers	0.1	-	Small	Treatment	Breeding Male	-0.1	-9.8490	5.20	-1.89371	539	1.000
Large	Control	Helpers	0.1	-	Small	Treatment	Helpers	-0.1	-0.8282	5.20	-0.15923	539	1.000
Large	Control	Helpers	24	-	Large	Control	Breeding Female	-0.1	-7.3446	5.19	-1.41489	549	1.000
Large	Control	Helpers	24	-	Large	Control	Breeding Female	0.1	-12.3446	5.19	-2.37811	549	1.000

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Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	Pbonferroni
Large	Control	Helpers	24	-	Large	Control	Breeding Female	4	-8.5946	5.19	-1.65570	549	1.000
Large	Control	Helpers	24	-	Large	Control	Breeding Male	-0.1	-10.4280	5.19	-2.00888	549	1.000
Large	Control	Helpers	24	-	Large	Control	Breeding Male	0.1	-11.5946	5.19	-2.23363	549	1.000
Large	Control	Helpers	24	-	Large	Control	Breeding Male	4	-7.9280	5.19	-1.52727	549	1.000
Large	Control	Helpers	24	-	Large	Control	Helpers	-0.1	0.1765	5.19	0.03400	549	1.000
Large	Control	Helpers	24	-	Large	Control	Helpers	0.1	1.1607	5.19	0.22360	549	1.000
Large	Control	Helpers	24	-	Large	Control	Helpers	4	-0.0795	5.19	-0.01531	549	1.000
Large	Control	Helpers	24	-	Large	Treatment	Breeding Female	-0.1	-11.1703	4.86	-2.29666	538	1.000
Large	Control	Helpers	24	-	Large	Treatment	Breeding Female	0.1	-10.9216	4.86	-2.24584	538	1.000
Large	Control	Helpers	24	-	Large	Treatment	Breeding Female	4	4.8909	4.86	1.00573	538	1.000
Large	Control	Helpers	24	-	Large	Treatment	Breeding Male	-0.1	-16.7328	4.86	-3.44034	538	0.706
Large	Control	Helpers	24	-	Large	Treatment	Breeding Male	0.1	-20.1716	4.86	-4.14794	538	0.044
Large	Control	Helpers	24	-	Large	Treatment	Breeding Male	4	-40.4216	4.86	-8.31201	538	<.001
Large	Control	Helpers	24	-	Large	Treatment	Helpers	-0.1	1.2070	4.86	0.24816	538	1.000
Large	Control	Helpers	24	-	Large	Treatment	Helpers	0.1	1.7042	4.86	0.35043	538	1.000
Large	Control	Helpers	24	-	Large	Treatment	Helpers	4	2.2153	4.86	0.45554	538	1.000
Large	Control	Helpers	24	-	Small	Control	Breeding Female	-0.1	-2.8446	5.20	-0.54736	536	1.000
Large	Control	Helpers	24	-	Small	Control	Breeding Female	0.1	-5.5113	5.20	-1.06048	536	1.000
Large	Control	Helpers	24	-	Small	Control	Breeding Female	4	-3.6780	5.20	-0.70771	536	1.000
Large	Control	Helpers	24	-	Small	Control	Breeding Male	-0.1	-12.6780	5.20	-2.43948	536	1.000
Large	Control	Helpers	24	-	Small	Control	Breeding Male	0.1	-19.2613	5.20	-3.70624	536	0.262
Large	Control	Helpers	24	-	Small	Control	Breeding Male	4	-12.5113	5.20	-2.40741	536	1.000
Large	Control	Helpers	24	-	Small	Control	Helpers	-0.1	1.2248	5.20	0.23567	536	1.000
Large	Control	Helpers	24	-	Small	Control	Helpers	0.1	3.7179	5.20	0.71539	536	1.000
Large Large	Control Control	Helpers Helpers	24 24	-	Small Small	Control Treatment	Helpers Breeding	4 -0.1	1.4123 -2.2716	5.20 5.20	0.27175 -0.43677	536 539	1.000 1.000
Laigo	Control	ricipero	24		oman	nouthon	Female	0.1	2.2710	0.20	0.40077	000	1.000
Large	Control	Helpers	24	-	Small	Treatment	Breeding Female	0.1	9.4802	5.20	1.82318	539	1.000
Large	Control	Helpers	24	-	Small	Treatment	Breeding Female	4	2.2302	5.20	0.42890	539	1.000
Large	Control	Helpers	24	-	Small	Treatment	Breeding Male	-0.1	-8.6883	5.20	-1.67053	539	1.000
Large	Control	Helpers	24	-	Small	Treatment	Breeding Male	0.1	-42.6032	5.20	-8.19322	539	<.001
Large	Control	Helpers	24	-	Small	Treatment	Breeding Male	4	-19.6865	5.20	-3.78600	539	0.192
Large	Control	Helpers	24	-	Small	Treatment	Helpers	-0.1	0.3326	5.20	0.06394	539	1.000
Large	Control	Helpers	24	-	Small	Treatment	Helpers	0.1	7.1885	5.20	1.38246	539	1.000
Large	Control	Helpers	24	-	Small	Treatment	Helpers	4	2.8760	5.20	0.55310	539	1.000
Large	Control	Helpers	4	-	Large	Control	Breeding Female	-0.1	-7.2652	5.19	-1.39959	549	1.000
Large	Control	Helpers	4	-	Large	Control	Breeding Female	0.1	-12.2652	5.19	-2.36280	549	1.000
Large	Control	Helpers	4	-	Large	Control	Breeding Male	-0.1	-10.3485	5.19	-1.99357	549	1.000
Large	Control	Helpers	4	-	Large	Control	Breeding Male	0.1	-11.5152	5.19	-2.21832	549	1.000
Large	Control	Helpers	4	-	Large	Control	Helpers	-0.1	0.2560	5.19	0.04931	549	1.000
Large	Control	Helpers	4	-	Large	Control	Helpers	0.1	1.2402	5.19	0.23891	549	1.000

				npa	rison								
Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	Pbonferroni
Large	Control	Helpers	4	-	Large	Treatment	Breeding Female	-0.1	-11.0908	4.86	-2.28032	538	1.000
Large	Control	Helpers	4	-	Large	Treatment	Breeding Female	0.1	-10.8421	4.86	-2.22950	538	1.000
Large	Control	Helpers	4	-	Large	Treatment	Breeding Male	-0.1	-16.6533	4.86	-3.42400	538	0.749
Large	Control	Helpers	4	-	Large	Treatment	Breeding Male	0.1	-20.0921	4.86	-4.13160	538	0.047
Large	Control	Helpers	4	-	Large	Treatment	Helpers	-0.1	1.2864	4.86	0.26450	538	1.000
Large	Control	Helpers	4	-	Large	Treatment	Helpers	0.1	1.7836	4.86	0.36677	538	1.000
Large	Control	Helpers	4	-	Small	Control	Breeding Female	-0.1	-2.7652	5.20	-0.53207	536	1.000
Large	Control	Helpers	4	-	Small	Control	Breeding Female	0.1	-5.4318	5.20	-1.04519	536	1.000
Large	Control	Helpers	4	-	Small	Control	Breeding Male	-0.1	-12.5985	5.20	-2.42419	536	1.000
Large	Control	Helpers	4	-	Small	Control	Breeding Male	0.1	-19.1818	5.20	-3.69095	536	0.278
Large	Control	Helpers	4	-	Small	Control	Helpers	-0.1	1.3043	5.20	0.25097	536	1.000
Large	Control	Helpers	4	-	Small	Control	Helpers	0.1	3.7973	5.20	0.73068	536	1.000
Large	Control	Helpers	4	-	Small	Treatment	Breeding Female	-0.1	-2.1921	5.20	-0.42149	539	1.000
Large	Control	Helpers	4	-	Small	Treatment	Breeding Female	0.1	9.5596	5.20	1.83846	539	1.000
Large	Control	Helpers	4	-	Small	Treatment	Breeding Male	-0.1	-8.6088	5.20	-1.65526	539	1.000
Large	Control	Helpers	4	-	Small	Treatment	Breeding Male	0.1	-42.5237	5.20	-8.17794	539	<.001
Large	Control	Helpers	4	-	Small	Treatment	Helpers	-0.1	0.4120	5.20	0.07922	539	1.000
Large	Control	Helpers	4	-	Small	Treatment	Helpers	0.1	7.2680	5.20	1.39774	539	1.000
Large	Treatment	Breeding Female	-0.1	-	Large	Control	Breeding Female	-0.1	3.8256	4.86	0.78656	538	1.000
Large	Treatment	Breeding Female	-0.1	-	Large	Control	Breeding Male	-0.1	0.7423	4.86	0.15262	538	1.000
Large	Treatment	Breeding Female	-0.1	-	Large	Control	Helpers	-0.1	11.3467	4.86	2.33295	538	1.000
Large	Treatment	Breeding Female	-0.1	-	Large	Treatment	Breeding Male	-0.1	-5.5625	4.50	-1.23735	549	1.000
Large	Treatment	Breeding Female	-0.1	-	Large	Treatment	Helpers	-0.1	12.3772	4.50	2.75325	549	1.000
Large	Treatment	Breeding Female	-0.1	-	Small	Control	Breeding Female	-0.1	8.3256	4.86	1.71179	538	1.000
Large	Treatment	Breeding Female	-0.1	-	Small	Control	Breeding Male	-0.1	-1.5077	4.86	-0.31000	538	1.000
Large	Treatment	Breeding Female	-0.1	-	Small	Control	Helpers	-0.1	12.3951	4.86	2.54849	538	1.000
Large	Treatment	Breeding Female	-0.1	-	Small	Treatment	Breeding Male	-0.1	2.4820	4.87	0.50922	543	1.000
Large	Treatment	Breeding Female	-0.1	-	Small	Treatment	Helpers	-0.1	11.5028	4.87	2.35999	543	1.000
Large	Treatment	Breeding Female	0.1	-	Large	Control	Breeding Female	-0.1	3.5769	4.86	0.73554	538	1.000
Large	Treatment	Breeding Female	0.1	-	Large	Control	Breeding Female	0.1	-1.4231	4.86	-0.29263	538	1.000
Large	Treatment	Breeding Female	0.1	-	Large	Control	Breeding Male	-0.1	0.4936	4.86	0.10150	538	1.000
Large	Treatment	Breeding Female	0.1	-	Large	Control	Breeding Male	0.1	-0.6731	4.86	-0.13840	538	1.000
Large	Treatment	Breeding Female	0.1	-	Large	Control	Helpers	-0.1	11.0981	4.86	2.28213	538	1.000
Large	Treatment	Breeding Female	0.1	-	Large	Control	Helpers	0.1	12.0823	4.86	2.48452	538	1.000
Large	Treatment	Breeding Female	0.1	-	Large	Treatment	Breeding Female	-0.1	-0.2487	4.50	-0.05529	550	1.000
Large	Treatment	Breeding Female	0.1	-	Large	Treatment	Breeding Male	-0.1	-5.8112	4.50	-1.29214	550	1.000
	Treatment	Breeding	0.1	-	Large	Treatment	Breeding	0.1	-9.2500	4.50	-2.05762	549	1.000

			Cor	npa	rison								
Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	Pbonferroni
Large	Treatment	Breeding Female	0.1	-	Large	Treatment	Helpers	-0.1	12.1286	4.50	2.69685	550	1.000
Large	Treatment	Breeding Female	0.1	-	Large	Treatment	Helpers	0.1	12.6257	4.50	2.80853	549	1.000
Large	Treatment	Breeding Female	0.1	-	Small	Control	Breeding Female	-0.1	8.0769	4.86	1.66089	538	1.000
Large	Treatment	Breeding Female	0.1	-	Small	Control	Breeding Female	0.1	5.4103	4.86	1.11253	538	1.000
Large	Treatment	Breeding Female	0.1	-	Small	Control	Breeding Male	-0.1	-1.7564	4.86	-0.36117	538	1.000
Large	Treatment	Breeding Female	0.1	-	Small	Control	Breeding Male	0.1	-8.3397	4.86	-1.71492	538	1.000
Large	Treatment	Breeding Female	0.1	-	Small	Control	Helpers	-0.1	12.1464	4.86	2.49770	538	1.000
Large	Treatment	Breeding Female	0.1	-	Small	Control	Helpers	0.1	14.6394	4.86	3.01035	538	1.000
Large	Treatment	Breeding Female	0.1	-	Small	Treatment	Breeding Female	-0.1	8.6500	4.87	1.77605	544	1.000
Large	Treatment	Breeding Female	0.1	-	Small	Treatment	Breeding Male	-0.1	2.2333	4.87	0.45855	544	1.000
Large	Treatment	Breeding Female	0.1	-	Small	Treatment	Breeding Male	0.1	-31.6816	4.87	-6.50474	543	<.001
Large	Treatment	Breeding Female	0.1	-	Small	Treatment	Helpers	-0.1	11.2541	4.87	2.31075	544	1.000
Large	Treatment	Breeding Female	0.1	-	Small	Treatment	Helpers	0.1	18.1101	4.87	3.71829	543	0.250
Large	Treatment	Breeding Female	24	-	Large	Control	Breeding Female	-0.1	0.8269	4.86	0.17005	538	1.000
Large	Treatment	Breeding Female	24	-	Large	Control	Breeding Female	0.1	-4.1731	4.86	-0.85812	538	1.000
Large	Treatment	Breeding Female	24	-	Large	Control	Breeding Female	24	-1.2564	4.86	-0.25835	538	1.000
Large	Treatment	Breeding Female	24	-	Large	Control	Breeding Female	4	-0.4231	4.86	-0.08699	538	1.000
Large	Treatment	Breeding Female	24	-	Large	Control	Breeding Male	-0.1	-2.2564	4.86	-0.46399	538	1.000
Large	Treatment	Breeding Female	24	-	Large	Control	Breeding Male	0.1	-3.4231	4.86	-0.70389	538	1.000
Large	Treatment	Breeding Female	24	-	Large	Control	Breeding Male	24	0.3269	4.86	0.06723	538	1.000
Large	Treatment	Breeding Female	24	-	Large	Control	Breeding Male	4	0.2436	4.86	0.05009	538	1.000
Large	Treatment	Breeding Female	24	-	Large	Control	Helpers	-0.1	8.3481	4.86	1.71664	538	1.000
Large	Treatment	Breeding Female	24	-	Large	Control	Helpers	0.1	9.3323	4.86	1.91903	538	1.000
Large	Treatment	Breeding Female	24	-	Large	Control	Helpers	24	8.1716	4.86	1.68035	538	1.000
Large	Treatment	Breeding Female	24	-	Large	Control	Helpers	4	8.0921	4.86	1.66401	538	1.000
Large	Treatment	Breeding Female	24	-	Large	Treatment	Breeding Female	-0.1	-2.9987	4.50	-0.66677	550	1.000
Large	Treatment	Breeding Female	24	-	Large	Treatment	Breeding Female	0.1	-2.7500	4.50	-0.61172	549	1.000
Large	Treatment	Breeding Female	24	-	Large	Treatment	Breeding Female	4	13.0625	4.50	2.90569	549	1.000
Large	Treatment	Breeding Female	24	-	Large	Treatment	Breeding Male	-0.1	-8.5612	4.50	-1.90362	550	1.000
Large	Treatment	Breeding Female	24	-	Large	Treatment	Breeding Male	0.1	-12.0000	4.50	-2.66934	549	1.000
Large	Treatment	Breeding Female	24	-	Large	Treatment	Breeding Male	24	-28.0625	4.50	-6.24236	549	<.001
Large	Treatment	Breeding Female	24	-	Large	Treatment	Breeding Male	4	-32.2500	4.50	-7.17385	549	<.001
Large	Treatment	Breeding Female	24	-	Large	Treatment	Helpers	-0.1	9.3786	4.50	2.08537	550	1.000
Large	Treatment	Breeding Female	24	-	Large	Treatment	Helpers	0.1	9.8757	4.50	2.19681	549	1.000

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Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	Pbonferroni
Large	Treatment	Breeding Female	24	-	Large	Treatment	Helpers	24	11.4714	4.50	2.55175	549	1.000
Large	Treatment	Breeding Female	24	-	Large	Treatment	Helpers	4	10.3869	4.50	2.31051	549	1.000
Large	Treatment	Breeding Female	24	-	Small	Control	Breeding Female	-0.1	5.3269	4.86	1.09540	538	1.000
Large	Treatment	Breeding Female	24	-	Small	Control	Breeding Female	0.1	2.6603	4.86	0.54704	538	1.000
Large	Treatment	Breeding Female	24	-	Small	Control	Breeding Female	24	4.5769	4.86	0.94117	538	1.000
Large	Treatment	Breeding Female	24	-	Small	Control	Breeding Female	4	4.4936	4.86	0.92403	538	1.000
Large	Treatment	Breeding Female	24	-	Small	Control	Breeding Male	-0.1	-4.5064	4.86	-0.92666	538	1.000
Large	Treatment	Breeding Female	24	-	Small	Control	Breeding Male	0.1	-11.0897	4.86	-2.28041	538	1.000
Large	Treatment	Breeding Female	24	-	Small	Control	Breeding Male	24	-5.8397	4.86	-1.20084	538	1.000
Large	Treatment	Breeding Female	24	-	Small	Control	Breeding Male	4	-4.3397	4.86	-0.89239	538	1.000
Large	Treatment	Breeding Female	24	-	Small	Control	Helpers	-0.1	9.3964	4.86	1.93221	538	1.000
Large	Treatment	Breeding Female	24	-	Small	Control	Helpers	0.1	11.8894	4.86	2.44486	538	1.000
Large	Treatment	Breeding Female	24	-	Small	Control	Helpers	24	9.9589	4.86	2.04788	538	1.000
Large	Treatment	Breeding Female	24	-	Small	Control	Helpers	4	9.5839	4.86	1.97076	538	1.000
Large	Treatment	Breeding Female	24	-	Small	Treatment	Breeding Female	-0.1	5.9000	4.87	1.21141	544	1.000
Large	Treatment	Breeding Female	24	-	Small	Treatment	Breeding Female	0.1	17.6518	4.87	3.62419	543	0.358
Large	Treatment	Breeding Female	24	-	Small	Treatment	Breeding Female	4	10.4018	4.87	2.13565	543	1.000
Large	Treatment	Breeding Female	24	-	Small	Treatment	Breeding Male	-0.1	-0.5167	4.87	-0.10609	544	1.000
Large	Treatment	Breeding Female	24	-	Small	Treatment	Breeding Male	0.1	-34.4316	4.87	-7.06936	543	<.001
Large	Treatment	Breeding Female	24	-	Small	Treatment	Breeding Male	24	-13.6816	4.87	-2.80905	543	1.000
Large	Treatment	Breeding Female	24	-	Small	Treatment	Breeding Male	4	-11.5149	4.87	-2.36419	543	1.000
Large	Treatment	Breeding Female	24	-	Small	Treatment	Helpers	-0.1	8.5041	4.87	1.74611	544	1.000
Large	Treatment	Breeding Female	24	-	Small	Treatment	Helpers	0.1	15.3601	4.87	3.15368	543	1.000
Large	Treatment	Breeding Female	24	-	Small	Treatment	Helpers	24	12.7351	4.87	2.61472	543	1.000
Large	Treatment	Breeding Female	24	-	Small	Treatment	Helpers	4	11.0476	4.87	2.26825	543	1.000
Large	Treatment	Breeding Female	4	-	Large	Control	Breeding Female	-0.1	-12.2356	4.86	-2.51603	538	1.000
Large	Treatment	Breeding Female	4	-	Large	Control	Breeding Female	0.1	-17.2356	4.86	-3.54420	538	0.483
Large	Treatment	Breeding Female	4	-	Large	Control	Breeding Female	4	-13.4856	4.86	-2.77307	538	1.000
Large	Treatment	Breeding Female	4	-	Large	Control	Breeding Male	-0.1	-15.3189	4.86	-3.15007	538	1.000
Large	Treatment	Breeding Female	4	-	Large	Control	Breeding Male	0.1	-16.4856	4.86	-3.38997	538	0.846
Large	Treatment	Breeding Female	4	-	Large	Control	Breeding Male	4	-12.8189	4.86	-2.63598	538	1.000
Large	Treatment	Breeding Female	4	-	Large	Control	Helpers	-0.1	-4.7144	4.86	-0.96944	538	1.000
Large	Treatment	Breeding Female	4	-	Large	Control	Helpers	0.1	-3.7302	4.86	-0.76705	538	1.000
Large	Treatment	Breeding Female	4	_	Large	Control	Helpers	4	-4.9704	4.86	-1.02207	538	1.000

			Con	npa	rison								
Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	Pbonferroni
Large	Treatment	Breeding Female	4	-	Large	Treatment	Breeding Female	-0.1	-16.0612	4.50	-3.57128	550	0.436
Large	Treatment	Breeding Female	4	-	Large	Treatment	Breeding Female	0.1	-15.8125	4.50	-3.51741	549	0.532
Large	Treatment	Breeding Female	4	-	Large	Treatment	Breeding Male	-0.1	-21.6237	4.50	-4.80813	550	0.002
Large	Treatment	Breeding Female	4	-	Large	Treatment	Breeding Male	0.1	-25.0625	4.50	-5.57503	549	<.001
Large	Treatment	Breeding Female	4	-	Large	Treatment	Breeding Male	4	-45.3125	4.50	-10.07954	549	<.001
Large	Treatment	Breeding Female	4	-	Large	Treatment	Helpers	-0.1	-3.6839	4.50	-0.81914	550	1.000
Large	Treatment	Breeding Female	4	-	Large	Treatment	Helpers	0.1	-3.1868	4.50	-0.70888	549	1.000
Large	Treatment	Breeding Female	4	-	Large	Treatment	Helpers	4	-2.6756	4.50	-0.59517	549	1.000
Large	Treatment	Breeding Female	4	-	Small	Control	Breeding Female	-0.1	-7.7356	4.86	-1.59068	538	1.000
Large	Treatment	Breeding Female	4	-	Small	Control	Breeding Female	0.1	-10.4022	4.86	-2.13904	538	1.000
Large	Treatment	Breeding Female	4	-	Small	Control	Breeding Female	4	-8.5689	4.86	-1.76204	538	1.000
Large	Treatment	Breeding Female	4	-	Small	Control	Breeding Male	-0.1	-17.5689	4.86	-3.61274	538	0.374
Large	Treatment	Breeding Female	4	-	Small	Control	Breeding Male	0.1	-24.1522	4.86	-4.96649	538	0.001
Large	Treatment	Breeding Female	4	-	Small	Control	Breeding Male	4	-17.4022	4.86	-3.57847	538	0.425
Large	Treatment	Breeding Female	4	-	Small	Control	Helpers	-0.1	-3.6661	4.86	-0.75387	538	1.000
Large	Treatment	Breeding Female	4	-	Small	Control	Helpers	0.1	-1.1731	4.86	-0.24122	538	1.000
Large	Treatment	Breeding Female	4	-	Small	Control	Helpers	4	-3.4786	4.86	-0.71532	538	1.000
Large	Treatment	Breeding Female	4	-	Small	Treatment	Breeding Female	-0.1	-7.1625	4.87	-1.47064	544	1.000
Large	Treatment	Breeding Female	4	-	Small	Treatment	Breeding Female	0.1	4.5893	4.87	0.94225	543	1.000
Large	Treatment	Breeding Female	4	-	Small	Treatment	Breeding Male	-0.1	-13.5792	4.87	-2.78814	544	1.000
Large	Treatment	Breeding Female	4	-	Small	Treatment	Breeding Male	0.1	-47.4941	4.87	-9.75130	543	<.001
Large	Treatment	Breeding Female	4	-	Small	Treatment	Breeding Male	4	-24.5774	4.87	-5.04614	543	<.001
Large	Treatment	Breeding Female	4	-	Small	Treatment	Helpers	-0.1	-4.5584	4.87	-0.93594	544	1.000
Large	Treatment	Breeding Female	4	-	Small	Treatment	Helpers	0.1	2.2976	4.87	0.47173	543	1.000
Large	Treatment	Breeding Female	4	-	Small	Treatment	Helpers	4	-2.0149	4.87	-0.41369	543	1.000
Large	Treatment	Breeding Male	-0.1	-	Large	Control	Breeding Male	-0.1	6.3048	4.86	1.29629	538	1.000
Large	Treatment	Breeding Male	-0.1	-	Large	Control	Helpers	-0.1	16.9092	4.86	3.47663	538	0.619
Large	Treatment	Breeding Male	-0.1	-	Large	Treatment	Helpers	-0.1	17.9397	4.50	3.99060	549	0.084
Large	Treatment	Breeding Male	-0.1	-	Small	Control	Breeding Male	-0.1	4.0548	4.86	0.83368	538	1.000
Large	Treatment	Breeding Male	-0.1	-	Small	Control	Helpers	-0.1	17.9576	4.86	3.69217	538	0.276
Large	Treatment	Breeding Male	-0.1	-	Small	Treatment	Helpers	-0.1	17.0653	4.87	3.50122	543	0.565
Large	Treatment	Breeding Male	0.1	-	Large	Control	Breeding Female	-0.1	12.8269	4.86	2.63764	538	1.000
Large	Treatment	Breeding Male	0.1	-	Large	Control	Breeding Male	-0.1	9.7436	4.86	2.00361	538	1.000
Large	Treatment	Breeding Male	0.1	-	Large	Control	Breeding Male	0.1	8.5769	4.86	1.76370	538	1.000

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Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	Pbonferroni
Large	Treatment	Breeding Male	0.1	-	Large	Control	Helpers	-0.1	20.3481	4.86	4.18423	538	0.038
Large	Treatment	Breeding Male	0.1	-	Large	Control	Helpers	0.1	21.3323	4.86	4.38662	538	0.016
Large	Treatment	Breeding Male	0.1	-	Large	Treatment	Breeding Female	-0.1	9.0013	4.50	2.00149	550	1.000
Large	Treatment	Breeding Male	0.1	-	Large	Treatment	Breeding Male	-0.1	3.4388	4.50	0.76464	550	1.000
Large	Treatment	Breeding Male	0.1	-	Large	Treatment	Helpers	-0.1	21.3786	4.50	4.75364	550	0.003
Large	Treatment	Breeding Male	0.1	-	Large	Treatment	Helpers	0.1	21.8757	4.50	4.86615	549	0.002
Large	Treatment	Breeding Male	0.1	-	Small	Control	Breeding Female	-0.1	17.3269	4.86	3.56299	538	0.450
Large	Treatment	Breeding Male	0.1	-	Small	Control	Breeding Male	-0.1	7.4936	4.86	1.54093	538	1.000
Large	Treatment	Breeding Male	0.1	-	Small	Control	Breeding Male	0.1	0.9103	4.86	0.18718	538	1.000
Large	Treatment	Breeding Male	0.1	-	Small	Control	Helpers	-0.1	21.3964	4.86	4.39980	538	0.015
Large	Treatment	Breeding Male	0.1	-	Small	Control	Helpers	0.1	23.8894	4.86	4.91245	538	0.001
Large	Treatment	Breeding Male	0.1	-	Small	Treatment	Breeding Female	-0.1	17.9000	4.87	3.67531	544	0.295
Large	Treatment	Breeding Male	0.1	-	Small	Treatment	Breeding Male	-0.1	11.4833	4.87	2.35781	544	1.000
Large	Treatment	Breeding Male	0.1	-	Small	Treatment	Helpers	-0.1	20.5041	4.87	4.21000	544	0.034
Large	Treatment	Breeding Male	0.1	-	Small	Treatment	Helpers	0.1	27.3601	4.87	5.61747	543	<.001
Large	Treatment	Breeding Male	24	-	Large	Control	Breeding Female	-0.1	28.8894	4.86	5.94062	538	<.001
Large	Treatment	Breeding Male	24	-	Large	Control	Breeding Female	0.1	23.8894	4.86	4.91245	538	0.001
Large	Treatment	Breeding Male	24	-	Large	Control	Breeding Female	4	27.6394	4.86	5.68358	538	<.001
Large	Treatment	Breeding Male	24	-	Large	Control	Breeding Male	-0.1	25.8061	4.86	5.30658	538	<.001
Large	Treatment	Breeding Male	24	-	Large	Control	Breeding Male	0.1	24.6394	4.86	5.06668	538	<.001
Large	Treatment	Breeding Male	24	-	Large	Control	Breeding Male	24	28.3894	4.86	5.83780	538	<.001
Large	Treatment	Breeding Male	24	-	Large	Control	Breeding Male	4	28.3061	4.86	5.82067	538	<.001
Large	Treatment	Breeding Male	24	-	Large	Control	Helpers	-0.1	36.4106	4.86	7.48721	538	<.001
Large	Treatment	Breeding Male	24	-	Large	Control	Helpers	0.1	37.3948	4.86	7.68960	538	<.001
Large	Treatment	Breeding Male	24	-	Large	Control	Helpers	24	36.2341	4.86	7.45092	538	<.001
Large	Treatment	Breeding Male	24	-	Large	Control	Helpers	4	36.1546	4.86	7.43458	538	<.001
Large	Treatment	Breeding Male	24	-	Large	Treatment	Breeding Female	-0.1	25.0638	4.50	5.57307	550	<.001
Large	Treatment	Breeding Male	24	-	Large	Treatment	Breeding Female	0.1	25.3125	4.50	5.63064	549	<.001
Large	Treatment	Breeding Male	24	-	Large	Treatment	Breeding Female	4	41.1250	4.50	9.14805	549	<.001
Large	Treatment	Breeding Male	24	-	Large	Treatment	Breeding Male	-0.1	19.5013	4.50	4.33622	550	0.019
Large	Treatment	Breeding Male	24	-	Large	Treatment	Breeding Male	0.1	16.0625	4.50	3.57302	549	0.433
Large	Treatment	Breeding Male	24	-	Large	Treatment	Breeding Male	4	-4.1875	4.50	-0.93149	549	1.000
Large	Treatment	Breeding Male	24	-	Large	Treatment	Helpers	-0.1	37.4411	4.50	8.32522	550	<.001
Large	Treatment	Breeding Male	24	-	Large	Treatment	Helpers	0.1	37.9382	4.50	8.43917	549	<.001

Group				ipal	Group			Time					
Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	P _{bonferroni}
Large	Treatment	Breeding Male	24	-	Large	Treatment	Helpers	24	39.5339	4.50	8.79411	549	<.001
Large	Treatment	Breeding Male	24	-	Large	Treatment	Helpers	4	38.4494	4.50	8.55288	549	<.001
Large	Treatment	Breeding Male	24	-	Small	Control	Breeding Female	-0.1	33.3894	4.86	6.86597	538	<.001
Large	Treatment	Breeding Male	24	-	Small	Control	Breeding Female	0.1	30.7228	4.86	6.31761	538	<.001
Large	Treatment	Breeding Male	24	-	Small	Control	Breeding Female	4	32.5561	4.86	6.69461	538	<.001
Large	Treatment	Breeding Male	24	-	Small	Control	Breeding Male	-0.1	23.5561	4.86	4.84391	538	0.002
Large	Treatment	Breeding Male	24	-	Small	Control	Breeding Male	0.1	16.9728	4.86	3.49016	538	0.589
Large	Treatment	Breeding Male	24	-	Small	Control	Breeding Male	24	22.2228	4.86	4.56973	538	0.007
Large	Treatment	Breeding Male	24	-	Small	Control	Breeding Male	4	23.7228	4.86	4.87818	538	0.002
Large	Treatment	Breeding Male	24	-	Small	Control	Helpers	-0.1	37.4589	4.86	7.70278	538	<.001
Large	Treatment	Breeding Male	24	-	Small	Control	Helpers	0.1	39.9519	4.86	8.21543	538	<.001
Large	Treatment	Breeding Male	24	-	Small	Control	Helpers	24	38.0214	4.86	7.81845	538	<.001
Large	Treatment	Breeding Male	24	-	Small	Control	Helpers	4	37.6464	4.86	7.74133	538	<.001
Large	Treatment	Breeding Male	24	-	Small	Treatment	Breeding Female	-0.1	33.9625	4.87	6.97333	544	<.001
Large	Treatment	Breeding Male	24	-	Small	Treatment	Breeding Female	0.1	45.7143	4.87	9.38587	543	<.001
Large	Treatment	Breeding Male	24	-	Small	Treatment	Breeding Female	4	38.4643	4.87	7.89733	543	<.001
Large	Treatment	Breeding Male	24	-	Small	Treatment	Breeding Male	-0.1	27.5458	4.87	5.65583	544	<.001
Large	Treatment	Breeding Male	24	-	Small	Treatment	Breeding Male	0.1	-6.3691	4.87	-1.30767	543	1.000
Large	Treatment	Breeding Male	24	-	Small	Treatment	Breeding Male	4	16.5476	4.87	3.39749	543	0.823
Large	Treatment	Breeding Male	24	-	Small	Treatment	Helpers	-0.1	36.5666	4.87	7.50803	544	<.001
Large	Treatment	Breeding Male	24	-	Small	Treatment	Helpers	0.1	43.4226	4.87	8.91536	543	<.001
Large	Treatment	Breeding Male	24	-	Small	Treatment	Helpers	24	40.7976	4.87	8.37640	543	<.001
Large	Treatment	Breeding Male	24	-	Small	Treatment	Helpers	4	39.1101	4.87	8.02993	543	<.001
Large	Treatment	Breeding Male	4	-	Large	Control	Breeding Female	-0.1	33.0769	4.86	6.80171	538	<.001
Large	Treatment	Breeding Male	4	-	Large	Control	Breeding Female	0.1	28.0769	4.86	5.77354	538	<.001
Large	Treatment	Breeding Male	4	-	Large	Control	Breeding Male	-0.1	29.9936	4.86	6.16767	538	<.001
Large	Treatment	Breeding Male	4	-	Large	Control	Breeding Male	0.1	28.8269	4.86	5.92777	538	<.001
Large	Treatment	Breeding Male	4	-	Large	Control	Breeding Male	4	32.4936	4.86	6.68175	538	<.001
Large	Treatment	Breeding Male	4	-	Large	Control	Helpers	-0.1	40.5981	4.86	8.34830	538	<.001
Large	Treatment	Breeding Male	4	-	Large	Control	Helpers	0.1	41.5823	4.86	8.55069	538	<.001
Large	Treatment	Breeding Male	4	-	Large	Control	Helpers	4	40.3421	4.86	8.29567	538	<.001
Large	Treatment	Breeding Male	4	-	Large	Treatment	Breeding Female	-0.1	29.2513	4.50	6.50419	550	<.001
Large	Treatment	Breeding Male	4	-	Large	Treatment	Breeding Female	0.1	29.5000	4.50	6.56213	549	<.001
Large	Treatment	Breeding Male	4	-	Large	Treatment	Breeding Male	-0.1	23.6888	4.50	5.26734	550	<.001

Group			Time		rison Group			Time					
Size	Treatment	Subject	Point		Size	Treatment	Subject	Point	Difference	SE	t	df	Pbonferror
Large	Treatment	Breeding Male	4	-	Large	Treatment	Breeding Male	0.1	20.2500	4.50	4.50451	549	0.009
Large	Treatment	Breeding Male	4	-	Large	Treatment	Helpers	-0.1	41.6286	4.50	9.25633	550	<.001
Large	Treatment	Breeding Male	4	-	Large	Treatment	Helpers	0.1	42.1257	4.50	9.37066	549	<.001
Large	Treatment	Breeding Male	4	-	Large	Treatment	Helpers	4	42.6369	4.50	9.48437	549	<.001
Large	Treatment	Breeding Male	4	-	Small	Control	Breeding Female	-0.1	37.5769	4.86	7.72705	538	<.001
Large	Treatment	Breeding Male	4	-	Small	Control	Breeding Female	0.1	34.9103	4.86	7.17870	538	<.001
Large	Treatment	Breeding Male	4	-	Small	Control	Breeding Male	-0.1	27.7436	4.86	5.70500	538	<.001
Large	Treatment	Breeding Male	4	-	Small	Control	Breeding Male	0.1	21.1603	4.86	4.35125	538	0.018
Large	Treatment	Breeding Male	4	-	Small	Control	Breeding Male	4	27.9103	4.86	5.73927	538	<.001
Large	Treatment	Breeding Male	4	-	Small	Control	Helpers	-0.1	41.6464	4.86	8.56387	538	<.001
Large	Treatment	Breeding Male	4	-	Small	Control	Helpers	0.1	44.1394	4.86	9.07652	538	<.001
Large	Treatment	Breeding Male	4	-	Small	Control	Helpers	4	41.8339	4.86	8.60242	538	<.001
Large	Treatment	Breeding Male	4	-	Small	Treatment	Breeding Female	-0.1	38.1500	4.87	7.83313	544	<.001
Large	Treatment	Breeding Male	4	-	Small	Treatment	Breeding Female	0.1	49.9018	4.87	10.24564	543	<.001
Large	Treatment	Breeding Male	4	-	Small	Treatment	Breeding Male	-0.1	31.7333	4.87	6.51563	544	<.001
_arge	Treatment	Breeding Male	4	-	Small	Treatment	Breeding Male	0.1	-2.1816	4.87	-0.44791	543	1.000
_arge	Treatment	Breeding Male	4	-	Small	Treatment	Helpers	-0.1	40.7541	4.87	8.36783	544	<.001
Large	Treatment	Breeding Male	4	-	Small	Treatment	Helpers	0.1	47.6101	4.87	9.77512	543	<.001
Large	Treatment	Breeding Male	4	-	Small	Treatment	Helpers	4	43.2976	4.87	8.88969	543	<.001
Large	Treatment	Helpers	-0.1	-	Large	Control	Helpers	-0.1	-1.0305	4.86	-0.21187	538	1.000
Large	Treatment	Helpers	-0.1	-	Small	Control	Helpers	-0.1	0.0178	4.86	0.00366	538	1.000
_arge	Treatment	Helpers	0.1	-	Large	Control	Breeding Female	-0.1	-9.0488	4.86	-1.86073	538	1.000
_arge	Treatment	Helpers	0.1	-	Large	Control	Breeding Male	-0.1	-12.1321	4.86	-2.49476	538	1.000
Large	Treatment	Helpers	0.1	-	Large	Control	Helpers	-0.1	-1.5277	4.86	-0.31414	538	1.000
Large	Treatment	Helpers	0.1	-	Large	Control	Helpers	0.1	-0.5434	4.86	-0.11175	538	1.000
Large	Treatment	Helpers	0.1	-	Large	Treatment	Breeding Female	-0.1	-12.8744	4.50	-2.86269	550	1.000
_arge	Treatment	Helpers	0.1	-	Large	Treatment	Breeding Male	-0.1	-18.4369	4.50	-4.09954	550	0.054
_arge	Treatment	Helpers	0.1	-	Large	Treatment	Helpers	-0.1	-0.4972	4.50	-0.11055	550	1.000
_arge	Treatment	Helpers	0.1	-	Small	Control	Breeding Female	-0.1	-4.5488	4.86	-0.93538	538	1.000
_arge	Treatment	Helpers	0.1	-	Small	Control	Breeding Male	-0.1	-14.3821	4.86	-2.95744	538	1.000
_arge	Treatment	Helpers	0.1	-	Small	Control	Helpers	-0.1	-0.4794	4.86	-0.09857	538	1.000
_arge	Treatment	Helpers	0.1	-	Small	Control	Helpers	0.1	2.0137	4.86	0.41408	538	1.000
_arge	Treatment	Helpers	0.1	-	Small	Treatment	Breeding Female	-0.1	-3.9758	4.87	-0.81632	544	1.000
_arge	Treatment	Helpers	0.1	-	Small	Treatment	Breeding Male	-0.1	-10.3924	4.87	-2.13382	544	1.000
Large	Treatment	Helpers	0.1	-	Small	Treatment	Helpers	-0.1	-1.3716	4.87	-0.28162	544	1.000
-							Breeding						
Large	Treatment	Helpers	24	-	Large	Control	Female	-0.1	-10.6444	4.86	-2.18884	538	1.000
Large	Treatment	Helpers	24	-	Large	Control	Female	0.1	-15.6444	4.86	-3.21700	538	1.000
Large	Treatment	Helpers	24	-	Large	Control	Female	4	-11.8944	4.86	-2.44588	538	1.000

				•	rison								
Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	Pbonferro
Large	Treatment	Helpers	24	-	Large	Control		-0.1	-13.7277	4.86	-2.82287	538	1.000
							Breeding						
							Male						
Large	Treatment	Helpers	24	-	Large	Control	Breeding Male	0.1	-14.8944	4.86	-3.06278	538	1.000
Large	Treatment	Helpers	24	-	Large	Control	Breeding Male	4	-11.2277	4.86	-2.30879	538	1.000
_arge	Treatment	Helpers	24	-	Large	Control	Helpers	-0.1	-3.1233	4.86	-0.64225	538	1.000
arge	Treatment	Helpers	24	-	Large	Control	Helpers	0.1	-2.1390	4.86	-0.43986	538	1.000
arge	Treatment	Helpers	24	-	Large	Control	Helpers	24	-3.2998	4.86	-0.67854	538	1.000
arge	Treatment	Helpers	24	-	Large	Control	Helpers	4	-3.3792	4.86	-0.69488	538	1.000
_arge	Treatment	Helpers	24	-	Large	Treatment	Breeding Female	-0.1	-14.4700	4.50	-3.21748	550	1.000
_arge	Treatment	Helpers	24	-	Large	Treatment	Breeding Female	0.1	-14.2214	4.50	-3.16347	549	1.000
_arge	Treatment	Helpers	24	-	Large	Treatment	Breeding Female	4	1.5911	4.50	0.35394	549	1.000
_arge	Treatment	Helpers	24	-	Large	Treatment	Breeding Male	-0.1	-20.0325	4.50	-4.45433	550	0.012
_arge	Treatment	Helpers	24	-	Large	Treatment	Breeding Male	0.1	-23.4714	4.50	-5.22108	549	<.001
_arge	Treatment	Helpers	24	-	Large	Treatment	Breeding Male	4	-43.7214	4.50	-9.72560	549	<.001
arge	Treatment	Helpers	24	-	Large	Treatment	Helpers	-0.1	-2.0928	4.50	-0.46534	550	1.00
arge	Treatment	Helpers	24	-	Large	Treatment	Helpers	0.1	-1.5956	4.50	-0.35494	549	1.00
arge	Treatment	Helpers	24	-	Large	Treatment	Helpers	4	-1.0844	4.50	-0.24123	549	1.00
arge	Treatment	Helpers	24	-	Small	Control	Breeding Female	-0.1	-6.1444	4.86	-1.26349	538	1.00
arge	Treatment	Helpers	24	-	Small	Control	Breeding Female	0.1	-8.8111	4.86	-1.81185	538	1.000
arge	Treatment	Helpers	24	-	Small	Control	Breeding Female	4	-6.9777	4.86	-1.43485	538	1.000
₋arge	Treatment	Helpers	24	-	Small	Control	Breeding Male	-0.1	-15.9777	4.86	-3.28555	538	1.000
arge	Treatment	Helpers	24	-	Small	Control	Breeding Male	0.1	-22.5611	4.86	-4.63930	538	0.00
arge	Treatment	Helpers	24	-	Small	Control	Breeding Male	4	-15.8111	4.86	-3.25128	538	1.000
arge	Treatment	Helpers	24	-	Small	Control	Helpers	-0.1	-2.0750	4.86	-0.42668	538	1.000
arge	Treatment	Helpers	24	-	Small	Control	Helpers	0.1	0.4181	4.86	0.08597	538	1.00
arge	Treatment	Helpers	24	-	Small	Control	Helpers	24	-1.5125	4.86	-0.31101	538	1.00
arge	Treatment	Helpers	24	-	Small	Control	Helpers	4	-1.8875	4.86	-0.38812	538	1.00
arge	Treatment	Helpers	24	-	Small	Treatment	Breeding Female	-0.1	-5.5714	4.87	-1.14394	544	1.00
arge	Treatment	Helpers	24	-	Small	Treatment	Breeding Female	0.1	6.1804	4.87	1.26894	543	1.00
arge	Treatment	Helpers	24	-	Small	Treatment	Breeding Female	4	-1.0696	4.87	-0.21960	543	1.00
arge	Treatment	Helpers	24	-	Small	Treatment	Breeding Male	-0.1	-11.9880	4.87	-2.46144	544	1.00
arge	Treatment	Helpers	24	-	Small	Treatment	Breeding Male	0.1	-45.9029	4.87	-9.42461	543	<.00
arge	Treatment	Helpers	24	-	Small	Treatment	Breeding Male	4	-22.9863	4.87	-4.71945	543	0.00
arge	Treatment	Helpers	24	-	Small	Treatment	Helpers	-0.1	-2.9672	4.87	-0.60924	544	1.00
arge	Treatment	Helpers	24	-	Small	Treatment	Helpers	0.1	3.8887	4.87	0.79842	543	1.000
arge	Treatment	Helpers	24	-	Small	Treatment	Helpers	4	-0.4238	4.87	-0.08700	543	1.00
_arge	Treatment	Helpers	4	-	Large	Control	Breeding Female	-0.1	-9.5600	4.86	-1.96584	538	1.000
arge	Treatment	Helpers	4	-	Large	Control	Breeding Female	0.1	-14.5600	4.86	-2.99401	538	1.000

Group Group TreatmentBubjetFind SizeFreatmentSubjetFreatmentJellerenSizeInternentSizeInternentSizeInternentSizeInternentSize <th></th> <th></th> <th></th> <th>Cor</th> <th>npa</th> <th>rison</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>				Cor	npa	rison								
Large Instantion Instantinstantion Insta		Treatment	Subject				Treatment	Subject		Difference	SE	t	df	Pbonferroni
Large Instantion Instantion Number Currant Male Control Male Control Helpers 0.1 Control Helpers 0.1 <thcontrol< th=""> <thcontrol< th=""> <thcont< th=""><th>Large</th><th>Treatment</th><th>Helpers</th><th>4</th><th>-</th><th>Large</th><th>Control</th><th></th><th>-0.1</th><th>-12.6433</th><th>4.86</th><th>-2.59988</th><th>538</th><th>1.000</th></thcont<></thcontrol<></thcontrol<>	Large	Treatment	Helpers	4	-	Large	Control		-0.1	-12.6433	4.86	-2.59988	538	1.000
Large Treatment Helpers 4 - Large Curture Helpers 4 - Large Control Helpers 4 - Large Treatment Helpers 0.1 - 0.13 4.50 4.2132 5.0 0.1033 Large Treatment Helpers 4 - Large Treatment Helpers 4 - Large Treatment Helpers 4 - Saa 1.0003 Large Large Treatment Helpers 4 - Saa 1.0003 Large Large Treatment Helpers	Large	Treatment	Helpers	4	-	Large	Control		0.1	-13.8100	4.86	-2.83978	538	1.000
Large Treatment Helpers 4 - Large Treatment Helpers - Small Control Helpers - Large Treatment Helpers - Small Control Helpers - Large Treatment He	Large	Treatment	Helpers	4	-	Large	Control	Helpers	-0.1	-2.0388	4.86	-0.41925	538	1.000
Large Treatment Helpers 4 - Large Treatment Breeding Breeding - 1.33856 4.50 2.97855 550 1.000 Large Treatment Helpers 4 - Large Treatment Breeding 0.1 -13.1369 4.50 2.92224 549 1.000 Large Treatment Helpers 4 - Large Treatment Breeding 0.1 -2.9386 4.50 -2.9224 550 0.003 Large Treatment Helpers 4 - Large Treatment Helpers 0.1 -0.5112 4.50 -0.1371 549 -0.100 Large Treatment Helpers 4 - Small Control Breeding 0.1 -7.7266 4.80 -1.9489 8.81 1.000 Large Treatment Helpers 4 - Small Control Helpers 0.1 -2.9476 4.80 -2.96285 5.81	Large	Treatment	Helpers	4	-	Large	Control	Helpers	0.1	-1.0546	4.86	-0.21686	538	1.000
Large Instantion Helpers 4 - Large Instantion - 1.3.389 4.3.0 - 2.3.205 5.00 1.0000 Large Treatment Helpers 4 - Large Treatment Helpers 4.0 - Large Treatment Helpers 4.0 - Large Treatment Helpers 4.0 - Large Treatment Helpers 0.1 -10.083 4.50 -0.22242 5.00 0.000 Large Treatment Helpers 4.0 - Large Treatment Helpers 0.1 -0.0080 4.80 -0.0080 4.000 0.000 Large Treatment Helpers 4.0 - Small Control Freeding 0.1 -1.48933 4.80 -0.00205 5.38 1.000 Large Treatment Helpers 4 - Small Control Helpers 0.1 -0.10805 4.60 -0.05305 4.00 -0.05305 <td>Large</td> <td>Treatment</td> <td>Helpers</td> <td>4</td> <td>-</td> <td>Large</td> <td>Control</td> <td>Helpers</td> <td>4</td> <td>-2.2948</td> <td>4.86</td> <td>-0.47188</td> <td>538</td> <td>1.000</td>	Large	Treatment	Helpers	4	-	Large	Control	Helpers	4	-2.2948	4.86	-0.47188	538	1.000
Large Treatment Heipers 4 - Large Treatment Greening Male 0.1 -18.9491 4.90 -2.9222 5.90 1.000 Large Treatment Heipers 4 - Large Treatment Heipers 0.1 -18.9491 4.50 4.21320 550 0.003 Large Treatment Heipers 4 - Large Treatment Heipers 0.1 -0.5112 4.50 -0.22421 550 1.000 Large Treatment Heipers 4 - Small Control Breeding 0.1 -7.7266 4.86 -1.04049 5.38 1.000 Large Treatment Heipers 4 - Small Control Breeding 0.1 -7.7266 4.86 -4.1630 5.38 1.000 Large Treatment Heipers 4 - Small Control Heipers 0.1 -1.2633 4.86 -0.20368 5.38	Large	Treatment	Helpers	4	-	Large	Treatment	0	-0.1	-13.3856	4.50	-2.97635	550	1.000
Large Instantion Inspire 4 5 Large Treatment Male 0.1 -7.2839 4.30 -4.3798 5.49 <0.013 Large Treatment Helpers 4 - Large Treatment Helpers 0.1 -0.5112 4.50 -0.22431 5.50 1.0000 Large Treatment Helpers 4 - Large Treatment Helpers 0.1 -0.5112 4.50 -0.22431 5.50 1.0000 Large Treatment Helpers 4 - Small Control Breeding 0.1 -7.7266 4.86 -1.6885 5.38 1.000 Large Treatment Helpers 4 - Small Control Helpers 0.1 -1.48833 4.86 -0.8028 5.38 1.000 Large Treatment Helpers 4 - Small Control Helpers 4.1 -0.8023 4.86 -0.8028 5.38	Large	Treatment	Helpers	4	-	Large	Treatment	Female	0.1	-13.1369	4.50	-2.92224	549	1.000
Large Treatment Image freatment Image freatment Male freatment Colimation freatment Auge freatment Auge freatment Auge freatment Helpers freatment Auge freatment Helpers freatment Auge freatment Helpers freatment Auge freatment Helpers freatment Helpers freatment Auge freatment Helpers freatment Auge freatment Helpers freatment Helpers freatment Helpers freatment Helpers freatment Auge freatment Helpers freatment Help	Large	Treatment	Helpers	4	-	Large	Treatment	Male	-0.1	-18.9481	4.50	-4.21320	550	0.033
Large Treatment Helpers 4 - Large Treatment Helpers 0.1 -0.5112 4.50 -0.11371 5.49 1.000 Large Treatment Helpers 4 - Small Control Breading Fermale 0.1 -7.7266 4.86 -1.58885 5.38 1.000 Large Treatment Helpers 4 - Small Control Breading Male 0.1 -7.7266 4.86 -1.58885 5.38 1.000 Large Treatment Helpers 4 - Small Control Helpers 0.1 -0.5030 4.86 -0.6030 5.88 1.000 Large Treatment Helpers 4 - Small Control Helpers 0.1 -0.5030 4.87 -0.2128 544 1.000 Large Treatment Helpers 4 - Small Treatment Breading Fermale 0.1 -0.46808 4.87 -0.2137 <t< td=""><td>Large</td><td>Treatment</td><td>Helpers</td><td>4</td><td>-</td><td>Large</td><td>Treatment</td><td></td><td>0.1</td><td>-22.3869</td><td>4.50</td><td>-4.97985</td><td>549</td><td><.001</td></t<>	Large	Treatment	Helpers	4	-	Large	Treatment		0.1	-22.3869	4.50	-4.97985	549	<.001
Large Treatment Heipers 4 - Small Control Breading Famale 0.1 -5.060 4.86 -1.04049 5.38 1.000 Large Treatment Helpers 4 - Small Control Breading Famale 0.1 -7.7266 4.86 -1.58985 5.38 1.000 Large Treatment Helpers 4 - Small Control Breading Breading 0.1 -14.8933 4.86 -0.20586 5.38 1.000 Large Treatment Helpers 4 - Small Control Helpers 0.1 -1.9.9905 4.86 -0.20586 5.88 1.000 Large Treatment Helpers 4 - Small Control Helpers 0.1 -1.5025 4.86 -0.16513 5.38 1.000 Large Treatment Helpers 4 - Small Treatment Breading 0.1 -1.4889 4.87 -0.30555	Large	Treatment	Helpers	4	-	Large	Treatment	Helpers	-0.1	-1.0083	4.50	-0.22421	550	1.000
Large Freatment Heipers 4 - Small Control Female - 1.0000 4.88 - 1.0009 3.38 1.000 Large Treatment Heipers 4 - Small Control Breeding Male 0.1 -7.7266 4.86 -1.58885 538 1.000 Large Treatment Heipers 4 - Small Control Breeding Male 0.1 -21.4766 4.86 -4.41630 538 0.001 Large Treatment Heipers 4 - Small Control Heipers 0.1 -2.14766 4.86 -4.41630 538 0.000 Large Treatment Heipers 4 - Small Control Heipers 0.1 -1.5225 4.86 -0.20388 538 1.000 Large Treatment Heipers 0.1 Treatment Breeding Female 0.1 -4.4890 4.87 -0.20175 543 -0.001 <td>Large</td> <td>Treatment</td> <td>Helpers</td> <td>4</td> <td>-</td> <td>Large</td> <td>Treatment</td> <td>Helpers</td> <td>0.1</td> <td>-0.5112</td> <td>4.50</td> <td>-0.11371</td> <td>549</td> <td>1.000</td>	Large	Treatment	Helpers	4	-	Large	Treatment	Helpers	0.1	-0.5112	4.50	-0.11371	549	1.000
Large Ifestment Prepare 0.1 -7.286 4.86 -1.3885 5.33 1.000 Large Treatment Helpers 4 - Small Control Breading Male 0.1 -1.4.8933 4.86 -3.06255 5.38 1.000 Large Treatment Helpers 4 - Small Control Breading Male 0.1 -21.4766 4.86 -4.41630 538 0.001 Large Treatment Helpers 4 - Small Control Helpers 0.1 -2.0468 4.86 -4.41630 538 1.000 Large Treatment Helpers 4 - Small Control Helpers 0.1 -4.4869 4.87 -0.92128 544 1.000 Large Treatment Helpers 4 - Small Treatment Breading Fermale 0.1 -4.48185 4.87 -0.20155 543 <.000 Large Treatment <th< td=""><td>Large</td><td>Treatment</td><td>Helpers</td><td>4</td><td>-</td><td>Small</td><td>Control</td><td>0</td><td>-0.1</td><td>-5.0600</td><td>4.86</td><td>-1.04049</td><td>538</td><td>1.000</td></th<>	Large	Treatment	Helpers	4	-	Small	Control	0	-0.1	-5.0600	4.86	-1.04049	538	1.000
Large Treatment Heipers 4 - Sintal Control Male -	Large	Treatment	Helpers	4	-	Small	Control		0.1	-7.7266	4.86	-1.58885	538	1.000
Large Treatment Helpers 4 - Small Control Male 0.1 - 2.1.760 4.86 -4.803 5.36 0.014 Large Treatment Helpers 4 - Small Control Helpers 0.1 -0.9090 4.86 -0.20368 538 1.000 Large Treatment Helpers 4 - Small Control Helpers 0.1 -4.4669 4.87 -0.92128 544 1.000 Large Treatment Helpers 4 - Small Treatment Breeding -0.1 -10.9036 4.87 -0.92128 543 1.000 Large Treatment Helpers 4 - Small Treatment Breeding -0.1 -1.09036 4.87 -0.21377 544 1.000 Large Treatment Helpers 4 - Small Treatment Helpers -0.1 -1.828 4.87 -0.38658 5	Large	Treatment	Helpers	4	-	Small	Control	Male	-0.1	-14.8933	4.86	-3.06255	538	1.000
Large IreatmentTreatmentHelpers4-SmallControlHelpers0.11.5024.860.308975381.000LargeTreatmentHelpers4-SmallControlHelpers4-0.80304.860.308975381.000LargeTreatmentHelpers4-SmallTreatmentHelpers4-SmallTreatmentHelpers4-0.1-4.48694.87-0.921285431.000LargeTreatmentHelpers4-SmallTreatmentBreeding Male0.1-7.26494.87-0.92128543<.000LargeTreatmentHelpers4-SmallTreatmentBreeding Male0.1-1.00364.872.238775441.000LargeTreatmentHelpers4-SmallTreatmentHelpers0.14.884.872.23877543<.001LargeTreatmentHelpers0.1SmallTreatmentHelpers0.14.884.872.238775441.000LargeTreatmentHelpers0.1SmallTreatmentHelpers0.13.821.000SmallControlBreeding Female0.1	Large				-			Male						
Large Treatment Helpers 4 - Small Control Helpers 4 - Small Control Preeding Preeding - 4.869 4.86 - 0.01 - 4.869 4.87 - 0.0212 544 1.000 Large Treatment Helpers 4 - Small Treatment Preeding Preeding Male 0.1 - 4.87 - 9.23877 544 1.000 Large Treatment Helpers 4 - Small Treatment Preeding Male 0.1 -44.8165 4.87 -2.23877 544 1.000 Large Treatment Helpers 4 - Small Treatment Helpers 0.1 -44.8165 4.87 -0.236658 544 1.000 Large Treatment Helpers 0.1 Freeding Male 0.1 -4.828 4.87 -0.236658 544 1.000 Small Control Freeding Fremale 0.1	Large	Treatment	Helpers	4	-			Helpers						
LargeTreatmentHelpers4-SmallTreatmentBreeding Female-0.1-4.48694.87-0.921285441.000LargeTreatmentHelpers4-SmallTreatmentBreeding Pemale0.17.26494.871.491595431.000LargeTreatmentHelpers4-SmallTreatmentBreeding Pemale0.1-10.90364.87-2.238775441.000LargeTreatmentHelpers4-SmallTreatmentBreeding Pereding0.1-44.81854.87-9.20195543<.001	Large		Helpers	4	-									
Large Treatment Heipers 4 - Small Treatment Female - - Small Treatment Female - - Small Treatment Female - - Small Treatment Breeding Male - 1 - - - Small Treatment Breeding Male 0.1 - - - Stall 1.000 Large Treatment Helpers 4 - Small Treatment Breeding Male 0.1 -	Large	Treatment	Helpers	4	-	Small	Control	Helpers	4	-0.8030	4.86	-0.16513	538	1.000
Large Treatment Heipers 4 - Small Treatment Female - 1.2049 4.67 1.3919 543 1.000 Large Treatment Helpers 4 - Small Treatment Breeding Male 0.1 -10.9036 4.87 -2.23877 544 1.000 Large Treatment Helpers 4 - Small Treatment Breeding Male 0.1 -44.8185 4.87 -0.38658 544 1.000 Large Treatment Helpers 0.1 - Large Control Breeding Male 0.1 -4.828 4.87 -0.38658 544 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Male 0.1 -7.5833 5.20 -0.86588 536 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Male -0.1 -0.18881 4.86 -2.	Large	Treatment	Helpers	4	-	Small	Treatment	0	-0.1	-4.4869	4.87	-0.92128	544	1.000
Large Treatment Helpers 4 - Small Treatment Male - - 1.0.00 4.87 -2.2.367 544 1.000 Large Treatment Helpers 4 - Small Treatment Breeding Male 0.1 -44.8185 4.87 -9.20195 543 <.001 Large Treatment Helpers 4 - Small Treatment Helpers 0.1 -1.8828 4.87 -0.38658 544 1.000 Small Control Breeding Female -0.1 -4.800 5.20 -0.86588 536 1.000 Small Control Breeding Female -0.1 -7.5833 5.20 -1.8588 536 1.000 Small Control Breeding Female -0.1 - Large Control Breeding Heeding Female -0.1 -1.8881 4.86 -2.85547 538 1.000 Small Control Breeding Female -0.1 - Small Control	Large	Treatment	Helpers	4	-	Small	Treatment	Female	0.1	7.2649	4.87	1.49159	543	1.000
Large Ireatment Helpers 4 - Small Ireatment Male 0 - -44.8185 4.87 -9.20195 543 < < Large Treatment Helpers 4 - Small Treatment Helpers 0.1 -1.8228 4.87 -0.38658 544 1.000 Small Control Breeding Female -0.1 - Large Control Breeding Female -0.1 -4.5000 5.20 -0.86588 536 1.000 Small Control Breeding Female -0.1 - Large Control Helpers -0.1 -7.5833 5.20 -1.45918 536 1.000 Small Control Breeding Female -0.1 - Large Control Helpers -0.1 -1.183881 4.86 -2.85547 538 1.000 Small Control Breeding Female -0.1 - Small Control Breeding Male -0.1 -	Large	Treatment	Helpers	4	-	Small	Treatment	Male	-0.1	-10.9036	4.87	-2.23877	544	1.000
LargeTreatmentHelpers4-SmallTreatmentHelpers0.1 4.9732 4.871.021085431.000SmallControlBreeding Female0.1-LargeControlBreeding Female0.1-4.50005.20-0.865885361.000SmallControlBreeding Female0.1-LargeControlBreeding Male0.1-7.58335.20-1.459185361.000SmallControlBreeding Female0.1-LargeControlBreeding Male0.1-7.58335.20-1.459185361.000SmallControlBreeding Female0.1-LargeControlHelpers0.13.02115.200.581325361.000SmallControlBreeding Female0.1-LargeControlHelpers0.1-13.88814.86-2.855475381.000SmallControlBreeding Female0.1-LargeTreatmentHelpers0.14.05164.860.833035381.000SmallControlBreeding Female0.1-SmallControlBreeding Male0.1-9.83335.19-1.894325491.000SmallControlBreeding Female0.1-SmallControlBreeding Male0.1-5.84365.20-1.123585391.000SmallCon					-			Male						
Small Control Breeding Female -0.1 - Large Control Breeding Female -0.1 -4.5000 5.20 -0.86588 536 1.000 Small Control Breeding Female -0.1 - Large Control Breeding Male -0.1 -7.5833 5.20 -1.45918 536 1.000 Small Control Breeding Female -0.1 - Large Control Breeding Heeding -0.1 -7.5833 5.20 -1.45918 536 1.000 Small Control Breeding Female -0.1 - Large Control Helpers -0.1 3.0211 5.20 0.58132 536 1.000 Small Control Breeding Female -0.1 - Large Treatment Helpers -0.1 4.0516 4.86 0.8303 538 1.000 Small Control Breeding Female -0.1 - Small Control Helpers -0.1 4.0694 <	-		•		-									
Small Control Female -0.1 -4.5000 5.20 -0.86588 536 1.000 Small Control Breeding Female -0.1 - Large Control Breeding Male -0.1 -7.5833 5.20 -1.45918 536 1.000 Small Control Breeding Female -0.1 - Large Control Breeding Male -0.1 -7.5833 5.20 -1.45918 536 1.000 Small Control Breeding Female -0.1 - Large Control Helpers -0.1 3.0211 5.20 0.58132 536 1.000 Small Control Breeding Female -0.1 - Large Treatment Helpers -0.1 4.0516 4.86 0.83303 538 1.000 Small Control Breeding Female -0.1 - Small Control Breeding Female -0.1 4.0694 5.19 0.78395 549 1.000 Small	Large	Treatment		4	-	Small	Treatment		0.1	4.9732	4.87	1.02108	543	1.000
Small Control Female -0.1 - Large Control Male -0.1 -7.5333 5.20 -1.43918 536 1.000 Small Control Breeding Female -0.1 - Large Control Helpers -0.1 3.0211 5.20 0.58132 536 1.000 Small Control Breeding Female -0.1 - Large Treatment Helpers -0.1 -13.8881 4.86 -2.85547 538 1.000 Small Control Breeding Female -0.1 - Large Treatment Helpers -0.1 -13.8881 4.86 -2.85547 538 1.000 Small Control Breeding Female -0.1 - Large Treatment Helpers -0.1 4.0516 4.86 0.83303 538 1.000 Small Control Breeding Female -0.1 - Small Control Breeding Male -0.1 -9.8333 5.19 -1.89432 549 1.000 Small Control Breeding Female -0.1 -1 -5.8436 5.20 -	Small	Control	Female	-0.1	-	Large	Control	Female	-0.1	-4.5000	5.20	-0.86588	536	1.000
Small Control Female -0.1 -1 Large Control Helpers -0.1 3.0211 5.20 0.58132 536 1.000 Small Control Breeding Female -0.1 -1 3.0211 5.20 0.58132 536 1.000 Small Control Breeding Female -0.1 - Large Treatment Helpers -0.1 -13.8881 4.86 -2.85547 538 1.000 Small Control Breeding Female -0.1 - Large Treatment Helpers -0.1 4.0516 4.86 0.83303 538 1.000 Small Control Breeding Female -0.1 - Small Control Helpers -0.1 4.0516 4.86 0.83033 538 1.000 Small Control Breeding Female -0.1 - Small Control Helpers -0.1 4.0694 5.19 0.78395 549 1.000 Small Control Breeding Female -0.1	Small	Control	Female	-0.1	-	Large	Control		-0.1	-7.5833	5.20	-1.45918	536	1.000
Small Control Female -0.1 - Large Treatment Male -0.1 -13.8881 4.86 -2.85847 538 1.000 Small Control Breeding Female -0.1 - Large Treatment Helpers -0.1 4.0516 4.86 0.83303 538 1.000 Small Control Breeding Female -0.1 - Small Control Breeding Male -0.1 - 9.8333 5.19 -1.89432 549 1.000 Small Control Breeding Female -0.1 - Small Control Breeding Male -0.1 - 9.8333 5.19 -1.89432 549 1.000 Small Control Breeding Female -0.1 - Small Control Helpers -0.1 4.0694 5.19 0.78395 549 1.000 Small Control Breeding Female -0.1 - Small Treatment Helpers -0.1 3.1772 5.20 0.61089 539 1.000 Small Control <td>Small</td> <td>Control</td> <td>Female</td> <td>-0.1</td> <td>-</td> <td>Large</td> <td>Control</td> <td></td> <td>-0.1</td> <td>3.0211</td> <td>5.20</td> <td>0.58132</td> <td>536</td> <td>1.000</td>	Small	Control	Female	-0.1	-	Large	Control		-0.1	3.0211	5.20	0.58132	536	1.000
Small Control Female -0.1 - Large Ineatment Helpers -0.1 4.0516 4.86 0.83303 538 1.000 Small Control Breeding Female -0.1 - Small Control Breeding Male -0.1 -9.8333 5.19 -1.89432 549 1.000 Small Control Breeding Female -0.1 - Small Control Helpers -0.1 4.0694 5.19 0.78395 549 1.000 Small Control Breeding Female -0.1 - Small Control Helpers -0.1 4.0694 5.19 0.78395 549 1.000 Small Control Breeding Female -0.1 - Small Treatment Breeding Male -0.1 -5.8436 5.20 -1.12358 539 1.000 Small Control Breeding Female -0.1 - Small Treatment Helpers -0.1 3.1772 5.20 0.61089 539 1.000 Small Control Breeding Female	Small	Control	Female	-0.1	-	Large	Treatment	•	-0.1	-13.8881	4.86	-2.85547	538	1.000
Small Control Female -0.1 - Small Control Male -0.1 -9.8333 5.19 -1.89432 549 1.000 Small Control Breeding Female -0.1 - Small Control Helpers -0.1 4.0694 5.19 0.78395 549 1.000 Small Control Breeding Female -0.1 - Small Treatment Breeding Male -0.1 -5.8436 5.20 -1.12358 539 1.000 Small Control Breeding Female -0.1 - Small Treatment Helpers -0.1 -5.8436 5.20 -1.12358 539 1.000 Small Control Breeding Female -0.1 - Small Treatment Helpers -0.1 3.1772 5.20 0.61089 539 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Female -0.1 -1.8333 5.20 -1.31486 536 1.000 Small Control Breeding Female <td>Small</td> <td>Control</td> <td>Female</td> <td>-0.1</td> <td>-</td> <td>Large</td> <td>Treatment</td> <td></td> <td>-0.1</td> <td>4.0516</td> <td>4.86</td> <td>0.83303</td> <td>538</td> <td>1.000</td>	Small	Control	Female	-0.1	-	Large	Treatment		-0.1	4.0516	4.86	0.83303	538	1.000
Small Control Female -0.1 - Small Control Helpers -0.1 4.0694 5.19 0.78395 549 1.000 Small Control Breeding Female -0.1 - Small Treatment Breeding Male -0.1 - 5.19 0.78395 549 1.000 Small Control Breeding Female -0.1 - Small Treatment Breeding Male -0.1 - 5.8436 5.20 - 1.12358 539 1.000 Small Control Breeding Female -0.1 - Small Treatment Helpers -0.1 3.1772 5.20 0.61089 539 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Female 0.1 -1.8333 5.20 -0.35277 536 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Male -0.1 -4.9167 5.20 -0.94606 536 <td< td=""><td>Small</td><td>Control</td><td>Female</td><td>-0.1</td><td>-</td><td>Small</td><td>Control</td><td>•</td><td>-0.1</td><td>-9.8333</td><td>5.19</td><td>-1.89432</td><td>549</td><td>1.000</td></td<>	Small	Control	Female	-0.1	-	Small	Control	•	-0.1	-9.8333	5.19	-1.89432	549	1.000
Small Control Female -0.1 - Small Treatment Male -0.1 -5.8436 5.20 -1.12358 539 1.000 Small Control Breeding Female -0.1 - Small Treatment Helpers -0.1 -5.8436 5.20 -1.12358 539 1.000 Small Control Breeding Female -0.1 - Small Treatment Helpers -0.1 3.1772 5.20 0.61089 539 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Female -0.1 -1.8333 5.20 -0.35277 536 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Female 0.1 -6.8333 5.20 -1.31486 536 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Male -0.1 -4.9167 5.20 -0.94606 536 1.000 Small Control Breeding Fe	Small	Control	Female	-0.1	-	Small	Control		-0.1	4.0694	5.19	0.78395	549	1.000
Small Control Female -0.1 - Small Treatment Helpers -0.1 3.1772 5.20 0.61089 539 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Female -0.1 -1.8333 5.20 -0.61089 539 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Female -0.1 -1.8333 5.20 -0.35277 536 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Female 0.1 -6.8333 5.20 -1.31486 536 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Male -0.1 -4.9167 5.20 -0.94606 536 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Male 0.1 -6.0833 5.20 -1.17055 536 1.000 Small Control B	Small	Control	Female	-0.1	-	Small	Treatment		-0.1	-5.8436	5.20	-1.12358	539	1.000
Small Control Female 0.1 - Large Control Female -0.1 -1.8333 5.20 -0.3277 536 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Female 0.1 -6.8333 5.20 -1.31486 536 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Male -0.1 -4.9167 5.20 -0.94606 536 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Male 0.1 -6.0833 5.20 -1.17055 536 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Male 0.1 -6.0833 5.20 -1.17055 536 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Male 0.1 -6.0833 5.20 -1.17055 536 1.000	Small	Control	Female	-0.1	-	Small	Treatment		-0.1	3.1772	5.20	0.61089	539	1.000
Small Control Female 0.1 - Large Control Female 0.1 - 6.8333 5.20 - 1.31486 536 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Male -0.1 -4.9167 5.20 -0.94606 536 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Male 0.1 -6.0833 5.20 -1.17055 536 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Male 0.1 -6.0833 5.20 -1.17055 536 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Male 0.1 -6.0833 5.20 -1.17055 536 1.000	Small	Control	Female	0.1	-	Large	Control	Female	-0.1	-1.8333	5.20	-0.35277	536	1.000
Small Control Female 0.1 - Large Control Male -0.1 -4.9167 5.20 -0.94606 536 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Male 0.1 -6.0833 5.20 -1.17055 536 1.000 Small Control Breeding Female 0.1 - Large Control Breeding Male 0.1 -6.0833 5.20 -1.17055 536 1.000	Small	Control	Female	0.1	-	Large	Control	Female	0.1	-6.8333	5.20	-1.31486	536	1.000
Small Control Female 0.1 - Large Control Male - 6.0833 5.20 - 1.17055 536 1.000 Small Control Breeding 0.1 - 1.17055 536 1.000	Small	Control	Female	0.1	-	Large	Control	Male	-0.1	-4.9167	5.20	-0.94606	536	1.000
	Small	Control	Female	0.1	-	Large	Control		0.1	-6.0833	5.20	-1.17055	536	1.000
	Small	Control		0.1	-	Large	Control	Helpers	-0.1	5.6878	5.20	1.09444	536	1.000

			Con	npa	rison								
Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	Pbonferroni
Small	Control	Breeding Female	0.1	-	Large	Control	Helpers	0.1	6.6720	5.20	1.28382	536	1.000
Small	Control	Breeding Female	0.1	-	Large	Treatment	Breeding Female	-0.1	-5.6589	4.86	-1.16351	538	1.000
Small	Control	Breeding Female	0.1	-	Large	Treatment	Breeding Male	-0.1	-11.2214	4.86	-2.30719	538	1.000
Small	Control	Breeding Female	0.1	-	Large	Treatment	Breeding Male	0.1	-14.6603	4.86	-3.01464	538	1.000
Small	Control	Breeding Female	0.1	-	Large	Treatment	Helpers	-0.1	6.7183	4.86	1.38132	538	1.000
Small	Control	Breeding Female	0.1	-	Large	Treatment	Helpers	0.1	7.2155	4.86	1.48374	538	1.000
Small	Control	Breeding Female	0.1	-	Small	Control	Breeding Female	-0.1	2.6667	5.19	0.51371	549	1.000
Small	Control	Breeding Female	0.1	-	Small	Control	Breeding Male	-0.1	-7.1667	5.19	-1.38061	549	1.000
Small	Control	Breeding Female	0.1	-	Small	Control	Breeding Male	0.1	-13.7500	5.19	-2.64884	549	1.000
Small	Control	Breeding Female	0.1	-	Small	Control	Helpers	-0.1	6.7361	5.19	1.29766	549	1.000
Small	Control	Breeding Female	0.1	-	Small	Control	Helpers	0.1	9.2292	5.19	1.77793	549	1.000
Small	Control	Breeding Female	0.1	-	Small	Treatment	Breeding Female	-0.1	3.2397	5.20	0.62291	539	1.000
Small	Control	Breeding Female	0.1	-	Small	Treatment	Breeding Male	-0.1	-3.1770	5.20	-0.61085	539	1.000
Small	Control	Breeding Female	0.1	-	Small	Treatment	Breeding Male	0.1	-37.0918	5.20	-7.13331	539	<.001
Small	Control	Breeding Female	0.1	-	Small	Treatment	Helpers	-0.1	5.8439	5.20	1.12363	539	1.000
Small	Control	Breeding Female	0.1	-	Small	Treatment	Helpers	0.1	12.6998	5.20	2.44236	539	1.000
Small	Control	Breeding Female	24	-	Large	Control	Breeding Female	-0.1	-3.7500	5.20	-0.72157	536	1.000
Small	Control	Breeding Female	24	-	Large	Control	Breeding Female	0.1	-8.7500	5.20	-1.68366	536	1.000
Small	Control	Breeding Female	24	-	Large	Control	Breeding Female	24	-5.8333	5.20	-1.12244	536	1.000
Small	Control	Breeding Female	24	-	Large	Control	Breeding Female	4	-5.0000	5.20	-0.96209	536	1.000
Small	Control	Breeding Female	24	-	Large	Control	Breeding Male	-0.1	-6.8333	5.20	-1.31486	536	1.000
Small	Control	Breeding Female	24	-	Large	Control	Breeding Male	0.1	-8.0000	5.20	-1.53935	536	1.000
Small	Control	Breeding Female	24	-	Large	Control	Breeding Male	24	-4.2500	5.20	-0.81778	536	1.000
Small	Control	Breeding Female	24	-	Large	Control	Breeding Male	4	-4.3333	5.20	-0.83381	536	1.000
Small	Control	Breeding Female	24	-	Large	Control	Helpers	-0.1	3.7711	5.20	0.72564	536	1.000
Small	Control	Breeding Female	24	-	Large	Control	Helpers	0.1	4.7554	5.20	0.91502	536	1.000
Small	Control	Breeding Female	24	-	Large	Control	Helpers	24	3.5946	5.20	0.69168	536	1.000
Small	Control	Breeding Female	24	-	Large	Control	Helpers	4	3.5152	5.20	0.67639	536	1.000
Small	Control	Breeding Female	24	-	Large	Treatment	Breeding Female	-0.1	-7.5756	4.86	-1.55758	538	1.000
Small	Control	Breeding Female	24	-	Large	Treatment	Breeding Female	0.1	-7.3269	4.86	-1.50666	538	1.000
Small	Control	Breeding Female	24	-	Large	Treatment	Breeding Female	4	8.4856	4.86	1.74491	538	1.000
Small	Control	Breeding Female	24	-	Large	Treatment	Breeding Male	-0.1	-13.1381	4.86	-2.70126	538	1.000
Small	Control	Breeding Female	24	-	Large	Treatment	Breeding Male	0.1	-16.5769	4.86	-3.40876	538	0.791
Small	Control	Breeding Female	24	-	Large	Treatment	Breeding Male	24	-32.6394	4.86	-6.71174	538	<.001
		-											

			Con	npa	rison				-				
Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	Pbonferroni
Small	Control	Breeding Female	24	-	Large	Treatment	Breeding Male	4	-36.8269	4.86	-7.57283	538	<.001
Small	Control	Breeding Female	24	-	Large	Treatment	Helpers	-0.1	4.8016	4.86	0.98724	538	1.000
Small	Control	Breeding Female	24	-	Large	Treatment	Helpers	0.1	5.2988	4.86	1.08961	538	1.000
Small	Control	Breeding Female	24	-	Large	Treatment	Helpers	24	6.8944	4.86	1.41772	538	1.000
Small	Control	Breeding Female	24	-	Large	Treatment	Helpers	4	5.8100	4.86	1.19472	538	1.000
Small	Control	Breeding Female	24	-	Small	Control	Breeding Female	-0.1	0.7500	5.19	0.14448	549	1.000
Small	Control	Breeding Female	24	-	Small	Control	Breeding Female	0.1	-1.9167	5.19	-0.36923	549	1.000
Small	Control	Breeding Female	24	-	Small	Control	Breeding Female	4	-0.0833	5.19	-0.01605	549	1.000
Small	Control	Breeding Female	24	-	Small	Control	Breeding Male	-0.1	-9.0833	5.19	-1.74984	549	1.000
Small	Control	Breeding Female	24	-	Small	Control	Breeding Male	0.1	-15.6667	5.19	-3.01807	549	1.000
Small	Control	Breeding Female	24	-	Small	Control	Breeding Male	24	-10.4167	5.19	-2.00670	549	1.000
Small	Control	Breeding Female	24	-	Small	Control	Breeding Male	4	-8.9167	5.19	-1.71773	549	1.000
Small	Control	Breeding Female	24	-	Small	Control	Helpers	-0.1	4.8194	5.19	0.92843	549	1.000
Small	Control	Breeding Female	24	-	Small	Control	Helpers	0.1	7.3125	5.19	1.40870	549	1.000
Small	Control	Breeding Female	24	-	Small	Control	Helpers	24	5.3819	5.19	1.03679	549	1.000
Small	Control	Breeding Female	24	-	Small	Control	Helpers	4	5.0069	5.19	0.96455	549	1.000
Small	Control	Breeding Female	24	-	Small	Treatment	Breeding Female	-0.1	1.3230	5.20	0.25439	539	1.000
Small	Control	Breeding Female	24	-	Small	Treatment	Breeding Female	0.1	13.0748	5.20	2.51448	539	1.000
Small	Control	Breeding Female	24	-	Small	Treatment	Breeding Female	4	5.8248	5.20	1.12020	539	1.000
Small	Control	Breeding Female	24	-	Small	Treatment	Breeding Male	-0.1	-5.0936	5.20	-0.97938	539	1.000
Small	Control	Breeding Female	24	-	Small	Treatment	Breeding Male	0.1	-39.0085	5.20	-7.50191	539	<.001
Small	Control	Breeding Female	24	-	Small	Treatment	Breeding Male	24	-18.2585	5.20	-3.51138	539	0.545
Small	Control	Breeding Female	24	-	Small	Treatment	Breeding Male	4	-16.0918	5.20	-3.09470	539	1.000
Small	Control	Breeding Female	24	-	Small	Treatment	Helpers	-0.1	3.9272	5.20	0.75510	539	1.000
Small	Control	Breeding Female	24	-	Small	Treatment	Helpers	0.1	10.7832	5.20	2.07376	539	1.000
Small	Control	Breeding Female	24	-	Small	Treatment	Helpers	24	8.1582	5.20	1.56893	539	1.000
Small	Control	Breeding Female	24	-	Small	Treatment	Helpers	4	6.4707	5.20	1.24440	539	1.000
Small	Control	Breeding Female	4	-	Large	Control	Breeding Female	-0.1	-3.6667	5.20	-0.70554	536	1.000
Small	Control	Breeding Female	4	-	Large	Control	Breeding Female	0.1	-8.6667	5.20	-1.66763	536	1.000
Small	Control	Breeding Female	4	-	Large	Control	Breeding Female	4	-4.9167	5.20	-0.94606	536	1.000
Small	Control	Breeding Female	4	-	Large	Control	Breeding Male	-0.1	-6.7500	5.20	-1.29883	536	1.000
Small	Control	Breeding Female	4	-	Large	Control	Breeding Male	0.1	-7.9167	5.20	-1.52332	536	1.000
Small	Control	Breeding Female	4	-	Large	Control	Breeding Male	4	-4.2500	5.20	-0.81778	536	1.000
Small	Control	Breeding Female	4	-	Large	Control	Helpers	-0.1	3.8545	5.20	0.74167	536	1.000

			Con	npa	rison								
Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	Pbonferroni
Small	Control	Breeding Female	4	-	Large	Control	Helpers	0.1	4.8387	5.20	0.93105	536	1.000
Small	Control	Breeding Female	4	-	Large	Control	Helpers	4	3.5985	5.20	0.69242	536	1.000
Small	Control	Breeding Female	4	-	Large	Treatment	Breeding Female	-0.1	-7.4923	4.86	-1.54045	538	1.000
Small	Control	Breeding Female	4	-	Large	Treatment	Breeding Female	0.1	-7.2436	4.86	-1.48952	538	1.000
Small	Control	Breeding Female	4	-	Large	Treatment	Breeding Male	-0.1	-13.0548	4.86	-2.68413	538	1.000
Small	Control	Breeding Female	4	-	Large	Treatment	Breeding Male	0.1	-16.4936	4.86	-3.39163	538	0.841
Small	Control	Breeding Female	4	-	Large	Treatment	Breeding Male	4	-36.7436	4.86	-7.55569	538	<.001
Small	Control	Breeding Female	4	-	Large	Treatment	Helpers	-0.1	4.8850	4.86	1.00437	538	1.000
Small	Control	Breeding Female	4	-	Large	Treatment	Helpers	0.1	5.3821	4.86	1.10674	538	1.000
Small	Control	Breeding Female	4	-	Large	Treatment	Helpers	4	5.8933	4.86	1.21185	538	1.000
Small	Control	Breeding Female	4	-	Small	Control	Breeding Female	-0.1	0.8333	5.19	0.16054	549	1.000
Small	Control	Breeding Female	4	-	Small	Control	Breeding Female	0.1	-1.8333	5.19	-0.35318	549	1.000
Small	Control	Breeding Female	4	-	Small	Control	Breeding Male	-0.1	-9.0000	5.19	-1.73379	549	1.000
Small	Control	Breeding Female	4	-	Small	Control	Breeding Male	0.1	-15.5833	5.19	-3.00202	549	1.000
Small	Control	Breeding Female	4	-	Small	Control	Breeding Male	4	-8.8333	5.19	-1.70168	549	1.000
Small	Control	Breeding Female	4	-	Small	Control	Helpers	-0.1	4.9028	5.19	0.94449	549	1.000
Small	Control	Breeding Female	4	-	Small	Control	Helpers	0.1	7.3958	5.19	1.42476	549	1.000
Small	Control	Breeding Female	4	-	Small	Control	Helpers	4	5.0903	5.19	0.98061	549	1.000
Small	Control	Breeding Female	4	-	Small	Treatment	Breeding Female	-0.1	1.4064	5.20	0.27041	539	1.000
Small	Control	Breeding Female	4	-	Small	Treatment	Breeding Female	0.1	13.1582	5.20	2.53051	539	1.000
Small	Control	Breeding Female	4	-	Small	Treatment	Breeding Male	-0.1	-5.0103	5.20	-0.96335	539	1.000
Small	Control	Breeding Female	4	-	Small	Treatment	Breeding Male	0.1	-38.9252	5.20	-7.48589	539	<.001
Small	Control	Breeding Female	4	-	Small	Treatment	Breeding Male	4	-16.0085	5.20	-3.07867	539	1.000
Small	Control	Breeding Female	4	-	Small	Treatment	Helpers	-0.1	4.0105	5.20	0.77112	539	1.000
Small	Control	Breeding Female	4	-	Small	Treatment	Helpers	0.1	10.8665	5.20	2.08979	539	1.000
Small	Control	Breeding Female	4	-	Small	Treatment	Helpers	4	6.5540	5.20	1.26043	539	1.000
Small	Control	Breeding Male	-0.1	-	Large	Control	Breeding Male	-0.1	2.2500	5.20	0.43294	536	1.000
Small	Control	Breeding Male	-0.1	-	Large	Control	Helpers	-0.1	12.8545	5.20	2.47344	536	1.000
Small	Control	Breeding Male	-0.1	-	Large	Treatment	Helpers	-0.1	13.8850	4.86	2.85482	538	1.000
Small	Control	Breeding Male	-0.1	-	Small	Control	Helpers	-0.1	13.9028	5.19	2.67827	549	1.000
Small	Control	Breeding Male	-0.1	-	Small	Treatment	Helpers	-0.1	13.0105	5.20	2.50159	539	1.000
Small	Control	Breeding Male	0.1	-	Large	Control	Breeding Female	-0.1	11.9167	5.20	2.29299	536	1.000
Small	Control	Breeding Male	0.1	-	Large	Control	Breeding Male	-0.1	8.8333	5.20	1.69970	536	1.000
Small	Control	Breeding Male	0.1	-	Large	Control	Breeding Male	0.1	7.6667	5.20	1.47521	536	1.000

SizeTreatmentSubjectPointSiSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-Lar	ge Control ge Treatment ge Treatment ge Treatment ge Treatment all Control	Subject Helpers Helpers Breeding Female Breeding Male Helpers Helpers Breeding	Time Point -0.1 0.1 -0.1 -0.1 0.1 -0.1 0.1	Difference 19.4378 20.4220 8.0911 2.5286 20.4683	SE 5.20 5.20 4.86 4.86	t 3.74020 3.92958 1.66356 0.51988	df 536 536 538 538	Pbonferroni 0.230 0.109 1.000
SmallControlMale0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-Small	ge Control ge Treatment ge Treatment ge Treatment ge Treatment all Control	Helpers Breeding Female Breeding Male Helpers Helpers Breeding	0.1 -0.1 -0.1 -0.1	20.4220 8.0911 2.5286	5.20 4.86	3.92958 1.66356	536 538	0.109
SmallControlMale0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-Lar	ge Treatment ge Treatment ge Treatment ge Treatment all Control	Breeding Female Breeding Male Helpers Helpers Breeding	-0.1 -0.1 -0.1	8.0911 2.5286	4.86	1.66356	538	
SmallControlMale0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-Lar	ge Treatment ge Treatment ge Treatment all Control	Female Breeding Male Helpers Helpers Breeding	-0.1 -0.1	2.5286				1.000
SmallControlMale0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-Lar	ge Treatment ge Treatment all Control	Male Helpers Helpers Breeding	-0.1		4.86	0.51988	538	
SmallControlMale0.1-LarSmallControlBreeding Male0.1-LarSmallControlBreeding Male0.1-Small	ge Treatment all Control	Helpers Breeding		20.4683				1.000
SmallControlMale0.1-LarSmallControlBreeding Male0.1-Small	all Control	Breeding	0.1		4.86	4.20839	538	0.034
Small Control Male 0.1 - Sm		0	0.1	20.9655	4.86	4.31119	538	0.022
	all Control	Female	-0.1	16.4167	5.19	3.16256	549	1.000
Small Control Breeding 0.1 - Sm Male	all Control	Breeding Male	-0.1	6.5833	5.19	1.26823	549	1.000
Small Control Breeding 0.1 - Sm Male	all Control	Helpers	-0.1	20.4861	5.19	3.94651	549	0.101
Small Control Breeding 0.1 - Sm	all Control	Helpers	0.1	22.9792	5.19	4.42678	549	0.013
Small Control Breeding 0.1 - Sm	all Treatment	Breeding Female	-0.1	16.9897	5.20	3.26669	539	1.000
Small Control Breeding 0.1 - Sm Male	all Treatment	Breeding Male	-0.1	10.5730	5.20	2.03292	539	1.000
Small Control Breeding 0.1 - Sm	all Treatment	Helpers	-0.1	19.5939	5.20	3.76740	539	0.207
Small Control Breeding 0.1 - Sm Male	all Treatment	Helpers	0.1	26.4498	5.20	5.08669	539	<.001
Small Control Breeding 24 - Lar	ge Control	Breeding Female	-0.1	6.6667	5.20	1.28279	536	1.000
Small Control Breeding 24 - Lar	ge Control	Breeding Female	0.1	1.6667	5.20	0.32070	536	1.000
Small Control Breeding 24 - Lar	ge Control	Breeding Female	4	5.4167	5.20	1.04227	536	1.000
Small Control Breeding 24 - Lar	ge Control	Breeding Male	-0.1	3.5833	5.20	0.68950	536	1.000
Small Control Breeding 24 - Lar Male	ge Control	Breeding Male	0.1	2.4167	5.20	0.46501	536	1.000
Small Control Breeding 24 - Lar Male	ge Control	Breeding Male	24	6.1667	5.20	1.18658	536	1.000
Small Control Breeding 24 - Lar	ge Control	Breeding Male	4	6.0833	5.20	1.17055	536	1.000
Small Control Breeding 24 - Lar	ge Control	Helpers	-0.1	14.1878	5.20	2.73000	536	1.000
Small Control Breeding 24 - Lar	ge Control	Helpers	0.1	15.1720	5.20	2.91938	536	1.000
Small Control Breeding 24 - Lar	ge Control	Helpers	24	14.0113	5.20	2.69604	536	1.000
Small Control Breeding 24 - Lar	ge Control	Helpers	4	13.9318	5.20	2.68075	536	1.000
Small Control Breeding 24 - Lar	ge Treatment	Breeding Female	-0.1	2.8411	4.86	0.58414	538	1.000
Small Control Breeding 24 - Lar	ge Treatment	Breeding Female	0.1	3.0897	4.86	0.63535	538	1.000
Small Control Breeding 24 - Lar	ge Treatment	Breeding Female	4	18.9022	4.86	3.88692	538	0.129
Small Control Breeding 24 - Lar	ge Treatment	Breeding Male	-0.1	-2.7214	4.86	-0.55954	538	1.000
Small Control Breeding 24 - Lar Male	ge Treatment	Breeding Male	0.1	-6.1603	4.86	-1.26676	538	1.000
Small Control Breeding 24 - Lar Male	ge Treatment	Breeding Male	4	-26.4103	4.86	-5.43082	538	<.001
Small Control Breeding 24 - Lar	ge Treatment	Helpers	-0.1	15.2183	4.86	3.12896	538	1.000
Small Control Breeding 24 - Lar	ge Treatment	Helpers	0.1	15.7155	4.86	3.23162	538	1.000
Small Control Breeding 24 - Lar	ge Treatment	Helpers	24	17.3111	4.86	3.55973	538	0.456

Group			Time		rison Group			Time		-		_	
Size	Treatment	Subject	Point		Size	Treatment	Subject	Point	Difference	SE	t	df	Pbonferroni
Small	Control	Breeding Male	24	-	Large	Treatment	Helpers	4	16.2266	4.86	3.33673	538	1.000
Small	Control	Breeding Male	24	-	Small	Control	Breeding Female	-0.1	11.1667	5.19	2.15118	549	1.000
Small	Control	Breeding Male	24	-	Small	Control	Breeding Female	0.1	8.5000	5.19	1.63747	549	1.000
Small	Control	Breeding Male	24	-	Small	Control	Breeding Female	4	10.3333	5.19	1.99064	549	1.000
Small	Control	Breeding Male	24	-	Small	Control	Breeding Male	-0.1	1.3333	5.19	0.25686	549	1.000
Small	Control	Breeding Male	24	-	Small	Control	Breeding Male	0.1	-5.2500	5.19	-1.01138	549	1.000
Small	Control	Breeding Male	24	-	Small	Control	Breeding Male	4	1.5000	5.19	0.28896	549	1.000
Small	Control	Breeding Male	24	-	Small	Control	Helpers	-0.1	15.2361	5.19	2.93513	549	1.000
Small	Control	Breeding Male	24	-	Small	Control	Helpers	0.1	17.7292	5.19	3.41540	549	0.772
Small	Control	Breeding Male	24	-	Small	Control	Helpers	24	15.7986	5.19	3.04349	549	1.000
Small	Control	Breeding Male	24	-	Small	Control	Helpers	4	15.4236	5.19	2.97125	549	1.000
Small	Control	Breeding Male	24	-	Small	Treatment	Breeding Female	-0.1	11.7397	5.20	2.25725	539	1.000
Small	Control	Breeding Male	24	-	Small	Treatment	Breeding Female	0.1	23.4915	5.20	4.51776	539	0.009
Small	Control	Breeding Male	24	-	Small	Treatment	Breeding Female	4	16.2415	5.20	3.12348	539	1.000
Small	Control	Breeding Male	24	-	Small	Treatment	Breeding Male	-0.1	5.3230	5.20	1.02348	539	1.000
Small	Control	Breeding Male	24	-	Small	Treatment	Breeding Male	0.1	-28.5918	5.20	-5.49864	539	<.001
Small	Control	Breeding Male	24	-	Small	Treatment	Breeding Male	4	-5.6752	5.20	-1.09142	539	1.000
Small	Control	Breeding Male	24	-	Small	Treatment	Helpers	-0.1	14.3439	5.20	2.75796	539	1.000
Small	Control	Breeding Male	24	-	Small	Treatment	Helpers	0.1	21.1998	5.20	4.07704	539	0.059
Small	Control	Breeding Male	24	-	Small	Treatment	Helpers	24	18.5748	5.20	3.57221	539	0.435
Small	Control	Breeding Male	24	-	Small	Treatment	Helpers	4	16.8873	5.20	3.24768	539	1.000
Small	Control	Breeding Male	4	-	Large	Control	Breeding Female	-0.1	5.1667	5.20	0.99416	536	1.000
Small	Control	Breeding Male	4	-	Large	Control	Breeding Female	0.1	0.1667	5.20	0.03207	536	1.000
Small	Control	Breeding Male	4	-	Large	Control	Breeding Male	-0.1	2.0833	5.20	0.40087	536	1.000
Small	Control	Breeding Male	4	-	Large	Control	Breeding Male	0.1	0.9167	5.20	0.17638	536	1.000
Small	Control	Breeding Male	4	-	Large	Control	Breeding Male	4	4.5833	5.20	0.88192	536	1.000
Small	Control	Breeding Male	4	-	Large	Control	Helpers	-0.1	12.6878	5.20	2.44137	536	1.000
Small	Control	Breeding Male	4	-	Large	Control	Helpers	0.1	13.6720	5.20	2.63075	536	1.000
Small	Control	Breeding Male	4	-	Large	Control	Helpers	4	12.4318	5.20	2.39212	536	1.000
Small	Control	Breeding Male	4	-	Large	Treatment	Breeding Female	-0.1	1.3411	4.86	0.27573	538	1.000
Small	Control	Breeding Male	4	-	Large	Treatment	Breeding Female	0.1	1.5897	4.86	0.32690	538	1.000
Small	Control	Breeding Male	4	-	Large	Treatment	Breeding Male	-0.1	-4.2214	4.86	-0.86795	538	1.000
Small	Control	Breeding Male	4	-	Large	Treatment	Breeding Male	0.1	-7.6603	4.86	-1.57521	538	1.000
Small	Control	Breeding Male	4	-	Large	Treatment	Helpers	-0.1	13.7183	4.86	2.82055	538	1.000

Group			Time		Group	_		Time		~ -		_	
Size	Treatment	Subject	Point		Size	Treatment	Subject	Point	Difference	SE	t	df	Pbonferro
Small	Control	Breeding Male	4	-	Large	Treatment	Helpers	0.1	14.2155	4.86	2.92317	538	1.000
Small	Control	Breeding Male	4	-	Large	Treatment	Helpers	4	14.7266	4.86	3.02828	538	1.000
Small	Control	Breeding Male	4	-	Small	Control	Breeding Female	-0.1	9.6667	5.19	1.86222	549	1.000
Small	Control	Breeding Male	4	-	Small	Control	Breeding Female	0.1	7.0000	5.19	1.34850	549	1.000
Small	Control	Breeding Male	4	-	Small	Control	Breeding Male	-0.1	-0.1667	5.19	-0.03211	549	1.000
Small	Control	Breeding Male	4	-	Small	Control	Breeding Male	0.1	-6.7500	5.19	-1.30034	549	1.000
Small	Control	Breeding Male	4	-	Small	Control	Helpers	-0.1	13.7361	5.19	2.64617	549	1.000
Small	Control	Breeding Male	4	-	Small	Control	Helpers	0.1	16.2292	5.19	3.12644	549	1.000
Small	Control	Breeding Male	4	-	Small	Control	Helpers	4	13.9236	5.19	2.68229	549	1.000
Small	Control	Breeding Male	4	-	Small	Treatment	Breeding Female	-0.1	10.2397	5.20	1.96883	539	1.000
Small	Control	Breeding Male	4	-	Small	Treatment	Breeding Female	0.1	21.9915	5.20	4.22929	539	0.031
Small	Control	Breeding Male	4	-	Small	Treatment	Breeding Male	-0.1	3.8230	5.20	0.73507	539	1.000
Small	Control	Breeding Male	4	-	Small	Treatment	Breeding Male	0.1	-30.0918	5.20	-5.78711	539	<.001
Small	Control	Breeding Male	4	-	Small	Treatment	Helpers	-0.1	12.8439	5.20	2.46955	539	1.000
Small	Control	Breeding Male	4	-	Small	Treatment	Helpers	0.1	19.6998	5.20	3.78857	539	0.190
Small	Control	Breeding Male	4	-	Small	Treatment	Helpers	4	15.3873	5.20	2.95921	539	1.000
Small	Control	Helpers	-0.1	-	Large	Control	Helpers	-0.1	-1.0483	5.20	-0.20172	536	1.000
Small	Control	Helpers	0.1	-	Large	Control	Breeding Female	-0.1	-11.0625	5.20	-2.12863	536	1.000
Small	Control	Helpers	0.1	-	Large	Control	Breeding Male	-0.1	-14.1458	5.20	-2.72192	536	1.000
Small	Control	Helpers	0.1	-	Large	Control	Helpers	-0.1	-3.5414	5.20	-0.68143	536	1.00
Small	Control	Helpers	0.1	-	Large	Control	Helpers	0.1	-2.5571	5.20	-0.49204	536	1.000
Small	Control	Helpers	0.1	-	Large	Treatment	Breeding Female	-0.1	-14.8881	4.86	-3.06107	538	1.00
Small	Control	Helpers	0.1	-	Large	Treatment	Breeding Male	-0.1	-20.4506	4.86	-4.20475	538	0.03
Small	Control	Helpers	0.1	-	Large	Treatment	Helpers	-0.1	-2.5109	4.86	-0.51625	538	1.00
Small	Control	Helpers	0.1	-	Small	Control	Breeding Female	-0.1	-6.5625	5.19	-1.26422	549	1.00
Small	Control	Helpers	0.1	-	Small	Control	Breeding Male	-0.1	-16.3958	5.19	-3.15854	549	1.00
Small	Control	Helpers	0.1	-	Small	Control	Helpers	-0.1	-2.4931	5.19	-0.48027	549	1.00
Small	Control	Helpers	0.1	-	Small	Treatment	Breeding Female	-0.1	-5.9895	5.20	-1.15162	539	1.00
Small	Control	Helpers	0.1	-	Small	Treatment	Breeding Male	-0.1	-12.4061	5.20	-2.38538	539	1.00
Small	Control	Helpers	0.1	-	Small	Treatment	Helpers	-0.1	-3.3853	5.20	-0.65091	539	1.00
Small	Control	Helpers	24	-	Large	Control	Breeding Female	-0.1	-9.1319	5.20	-1.75716	536	1.00
Small	Control	Helpers	24	-	Large	Control	Breeding Female	0.1	-14.1319	5.20	-2.71925	536	1.00
Small	Control	Helpers	24	-	Large	Control	Breeding Female	4	-10.3819	5.20	-1.99768	536	1.00
Small	Control	Helpers	24	-	Large	Control	Breeding Male	-0.1	-12.2153	5.20	-2.35045	536	1.00
Small	Control	Helpers	24	-	Large	Control	Breeding Male	0.1	-13.3819	5.20	-2.57494	536	1.000
Small	Control	Helpers	24	-	Large	Control	Breeding Male	4	-9.7153	5.20	-1.86940	536	1.000
Small	Control	Helpers	24	-	Large	Control	Helpers	-0.1	-1.6108	5.20	-0.30995	536	1.000
Small	Control	Helpers	24	-	Large	Control	Helpers	0.1	-0.6266	5.20	-0.12057	536	1.000

-				nparison								
Group Size	Treatment	Subject	Time Point	Grou Size		Subject	Time Point	Difference	SE	t	df	Pbonferror
Small	Control	Helpers	24	- Large	Control	Helpers	24	-1.7873	5.20	-0.34391	536	1.000
Small	Control	Helpers	24	- Large	Control	Helpers	4	-1.8668	5.20	-0.35920	536	1.000
Small	Control	Helpers	24	- Large	e Treatment	Breeding Female	-0.1	-12.9576	4.86	-2.66414	538	1.000
Small	Control	Helpers	24	- Large	Treatment	Breeding Female	0.1	-12.7089	4.86	-2.61337	538	1.000
Small	Control	Helpers	24	- Large	Treatment	Breeding Female	4	3.1036	4.86	0.63820	538	1.000
Small	Control	Helpers	24	- Large	Treatment	Breeding Male	-0.1	-18.5201	4.86	-3.80782	538	0.176
Small	Control	Helpers	24	- Large	Treatment	Breeding Male Broading	0.1	-21.9589	4.86	-4.51547	538	0.009
Small	Control	Helpers	24	- Large	Treatment	Breeding Male	4	-42.2089	4.86	-8.67953	538	<.001
Small	Control	Helpers	24	- Large	Treatment	Helpers	-0.1	-0.5803	4.86	-0.11932	538	1.000
Small	Control	Helpers	24	- Large	Treatment	Helpers	0.1	-0.0831	4.86	-0.01710	538	1.000
Small	Control	Helpers	24	- Large	Treatment	Helpers	4	0.4280	4.86	0.08801	538	1.000
Small	Control	Helpers	24	- Small	Control	Breeding Female	-0.1	-4.6319	5.19	-0.89231	549	1.000
Small	Control	Helpers	24	- Small	Control	Breeding Female	0.1	-7.2986	5.19	-1.40603	549	1.000
Small	Control	Helpers	24	- Small	Control	Breeding Female	4	-5.4653	5.19	-1.05285	549	1.000
Small	Control	Helpers	24	- Small	Control	Breeding Male	-0.1	-14.4653	5.19	-2.78663	549	1.000
Small	Control	Helpers	24	- Small	Control	Breeding Male	0.1	-21.0486	5.19	-4.05487	549	0.065
Small	Control	Helpers	24	- Small	Control	Breeding Male	4	-14.2986	5.19	-2.75453	549	1.000
Small	Control	Helpers	24	- Small	Control	Helpers	-0.1	-0.5625	5.19	-0.10836	549	1.000
Small	Control	Helpers	24	- Small	Control	Helpers	0.1	1.9306	5.19	0.37191	549	1.000
Small	Control	Helpers	24	- Small	Control	Helpers	4	-0.3750	5.19	-0.07224	549	1.000
Small	Control	Helpers	24	- Small	Treatment	Breeding Female	-0.1	-4.0589	5.20	-0.78043	539	1.000
Small	Control	Helpers	24	- Small	Treatment	Breeding Female	0.1	7.6929	5.20	1.47945	539	1.000
Small	Control	Helpers	24	- Small	Treatment	Breeding Female	4	0.4429	5.20	0.08517	539	1.000
Small	Control	Helpers	24	- Small	Treatment	Breeding Male	-0.1	-10.4756	5.20	-2.01419	539	1.000
Small	Control	Helpers	24	- Small	Treatment	Breeding Male Brooding	0.1	-44.3905	5.20	-8.53694	539	<.001
Small	Control	Helpers	24	- Small		Breeding Male	4	-21.4738	5.20	-4.12973	539	0.047
Small	Control	Helpers	24	- Small		Helpers	-0.1	-1.4547	5.20	-0.27971	539	1.000
Small	Control	Helpers	24	- Small		Helpers	0.1	5.4012	5.20	1.03873	539	1.000
Small	Control	Helpers	24	- Small	Treatment	Helpers	4	1.0887	5.20	0.20937	539	1.000
Small	Control	Helpers	4	- Large	Control	Breeding Female	-0.1	-8.7569	5.20	-1.68500	536	1.000
Small	Control	Helpers	4	- Large	Control	Breeding Female	0.1	-13.7569	5.20	-2.64709	536	1.000
Small	Control	Helpers	4	- Large	Control	Breeding Male Brooding	-0.1	-11.8403	5.20	-2.27829	536	1.000
Small	Control	Helpers	4	- Large	Control	Breeding Male	0.1	-13.0069	5.20	-2.50278	536	1.000
Small	Control	Helpers	4	- Large	Control	Helpers	-0.1	-1.2358	5.20	-0.23779	536	1.000
Small	Control	Helpers	4	- Large	Control	Helpers	0.1	-0.2516	5.20	-0.04841	536	1.000
Small	Control	Helpers	4	- Large	Control	Helpers	4	-1.4918	5.20	-0.28704	536	1.000
Small	Control	Helpers	4	- Large	Treatment	Breeding Female	-0.1	-12.5826	4.86	-2.58704	538	1.000

SeriesSeri		-		Cor	npa	rison								
Shala Control Helpers 4 - Large Treatment Breacher 0.1 - L.3.333 Abs - Large Treatment Breacher 0.1 - L.3.337 L.3.337 L.3.333 L.3.333 L.3.337 L.3.337 <thl.3.337< th=""> L.3.337 L.3.337</thl.3.337<>		Treatment	Subject				Treatment	Subject		Difference	SE	t	df	Pbonferroni
Shale Control Helpers 4 I. alige Treatment Male 5 1 1.5 1 5.5 0.2026 Small Control Helpers 4 - Large Treatment Helpers 0.11 0.21583 4.66 0.04221 538 1.000 Small Control Helpers 4 - Large Treatment Helpers 0.1 0.2193 4.66 0.04221 538 1.000 Small Control Helpers 4 - Small Control Helpers 0.1 -4.2669 5.19 -0.32007 549 1.000 Small Control Helpers 4 - Small Control Helpers 0.1 -0.4805 5.19 -0.32823 549 1.000 Small Control Helpers 4 - Small Control Helpers 4.1 Small Control Helpers 4.1 Small Control H	Small	Control	Helpers	4	-	Large	Treatment	0	0.1	-12.3339	4.86	-2.53625	538	1.000
Small Control Helpers 4 - Large Freatment Helpers 0.1 2.1.3939 4.8.8 4.7.4368 0.00221 538 1.000 Small Control Helpers 4 - Large Treatment Helpers 0.1 0.22013 4.8.8 0.00201 538 1.000 Small Control Helpers 4 - Small Control Helpers 0.1 0.42033 5.19 -0.30207 5.49 1.000 Small Control Helpers 4 - Small Control Helpers 0.1 -0.4093 5.19 -0.30212 5.49 1.000 Small Control Helpers 4 - Small Control Helpers 0.1 -0.1675 5.19 -0.34212 5.29 1.000 Small Control Helpers 4 - Small Control Helpers 0.1 -0.10705 5.20 -0.0761 5.39 </td <td>Small</td> <td>Control</td> <td>Helpers</td> <td>4</td> <td>-</td> <td>Large</td> <td>Treatment</td> <td>0</td> <td>-0.1</td> <td>-18.1451</td> <td>4.86</td> <td>-3.73072</td> <td>538</td> <td>0.238</td>	Small	Control	Helpers	4	-	Large	Treatment	0	-0.1	-18.1451	4.86	-3.73072	538	0.238
Samal Control Helpers 4 - Large Teatment Helpers 0.1 0.2919 4.8 0.00001 538 1.0000 Small Control Helpers 4 - Small Control Helpers 1.0 4.2599 5.19 0.30007 5.49 1.0007 Small Control Helpers 0.0 Small Control Helpers 0.0 1.4.0003 5.19 0.30212 5.49 0.00312	Small	Control	Helpers	4	-	Large	Treatment	0	0.1	-21.5839	4.86	-4.43836	538	0.012
SmallControlHelpers445SmallControlPrecing Prec	Small	Control	Helpers	4	-	Large	Treatment	Helpers	-0.1	-0.2053	4.86	-0.04221	538	1.000
Small Control Heipers 4 - Small Control Heipers 4 - Small Control Heipers 4 - Small Control Heipers 5.19 -1.8.200 5.49 1.000 Small Control Heipers 4 - Small Control Heipers 0.1 -14.6903 5.19 -2.71439 549 1.000 Small Control Heipers 4 - Small Control Heipers 0.1 -2.04793 5.19 -0.04712 549 1.000 Small Control Heipers 4 - Small Control Heipers 0.1 -0.1675 5.19 -0.4415 549 1.000 Small Control Heipers 4 - Small Teatment Feending 0.1 -0.100 5.20 -0.4421 539 1.000 Small Control Heipers 4 - Small Teatme	Small	Control	Helpers	4	-	Large	Treatment	Helpers	0.1	0.2919	4.86	0.06001	538	1.000
Shall Control Heighers 4 - Strail Control Female Male 0.1 -1.329/3 549 1.1000 Small Control Heighers 4 - Small Control Heighers 4 - Small Control Heighers 4 - Small Control Heighers 4.1 - Small Control Heighers 0.1 -2.06736 5.19 -0.03812 549 1.000 Small Control Heighers 4 - Small Control Heighers 0.1 -2.06736 5.19 -0.44415 549 1.000 Small Control Heighers 4 - Small Control Heighers 4 - Small Treatment Breeding Male 0.1 -4.0707 5.20 -0.20761 5.39 1.0000 Small Control Heighers 4.1 Small Treatment Meleging 0.1 -5.073 5.20 -0.20761	Small	Control	Helpers	4	-	Small	Control		-0.1	-4.2569	5.19	-0.82007	549	1.000
Shale Control Helpers 4 - Shale Control Helpers 0.1 -1.2.0738 5.19 -2.0738 5.19 -3.98283 5.49 0.0067 Small Control Helpers 4 - Small Control Helpers 0.1 -0.1875 5.19 -0.02612 549 1.000 Small Control Helpers 4 - Small Control Helpers 0.1 -2.06736 5.19 -0.02612 549 1.000 Small Control Helpers 4 - Small Control Helpers 4 - Small Treatment Breeding Breeding 0.1 1.01006 5.20 1.94208 5.99 1.000 Small Control Helpers 4 - Small Treatment Breeding Breeding 0.1 1.01077 5.20 1.94208 5.99 1.000 Small Control Helpers -0.1 1.401077 5.	Small	Control	Helpers	4	-	Small	Control	Female	0.1	-6.9236	5.19	-1.33379	549	1.000
Small Control Heipers 4 - Small Control Heipers 0.11 -2.0.67.9 5.19 -0.382.53 5.49 1.000 Small Control Helpers 4 - Small Control Helpers 0.1 -2.305.6 5.19 -0.044415 549 1.000 Small Control Helpers 0.1 -2.305.6 5.19 -0.044415 549 1.000 Small Control Helpers 4 - Small Treatment Female 0.1 -2.067.6 5.20 1.5157 539 1.000 Small Control Helpers 4 - Small Treatment Breeding 0.1 -1.0797 5.20 1.81260 539 1.000 Small Control Helpers 4 - Small Treatment Helpers 0.1 -1.0797 5.20 0.97542 539 1.000 Small Control Helpers 0.1	Small	Control	Helpers	4	-	Small	Control	Male	-0.1	-14.0903	5.19	-2.71439	549	1.000
Small Control Heipers 4 - Small Control Heipers 4 - Small Treatment Preprintal Premaina Premaina Premaina Premaina 	Small	Control	Helpers	4	-	Small	Control	0	0.1	-20.6736	5.19	-3.98263	549	0.087
Small Control Heipers 4 - Small Treatment Preading Paralle Male 0.1 -3.6839 5.20 -0.70832 5.39 1.000 Small Control Heipers 4 - Small Treatment Preading Male 0.1 -0.106 5.20 -1.5420 5.39 -0.000 Small Control Heipers 4 - Small Treatment Preading Male 0.1 -1.0797 5.20 -0.46482 5.39 -0.010 Small Control Heipers 4 - Small Treatment Heipers 0.1 -5.7762 5.20 -0.97542 5.39 1.000 Small Treatment Preeding 0.1 -5.7762 5.20 -0.97542 5.39 1.000 Small Treatment Preeding 0.1 -5.673 5.20 -0.97542 5.39 1.000 Small Treatment Preeding 0.1 -5.4481 5.20 -0.7763 <td>Small</td> <td>Control</td> <td>Helpers</td> <td>4</td> <td>-</td> <td>Small</td> <td>Control</td> <td>Helpers</td> <td></td> <td>-0.1875</td> <td>5.19</td> <td>-0.03612</td> <td>549</td> <td></td>	Small	Control	Helpers	4	-	Small	Control	Helpers		-0.1875	5.19	-0.03612	549	
Small Control Heipers 4 - Small Treatment Fernale -	Small	Control	Helpers	4	-	Small	Control		0.1	2.3056	5.19	0.44415	549	1.000
Small Control Heipers 4 - Small Treatment Fernale 0.1 8.06/9 5.20 1.551/5 5.39 1.000 Small Control Heipers 4 - Small Treatment Breeding Male 0.1 -10.006 5.20 -1.94208 539 -0.01 Small Control Heipers 4 - Small Treatment Heipers -0.1 -1.0797 5.20 -1.0105 539 1.000 Small Control Heipers 4 - Small Treatment Heipers -0.1 -1.0797 5.20 -1.1005 539 1.000 Small Treatment Fereding -0.1 - Large Control Heipers -0.1 -4.481 5.20 -1.5626 539 1.000 Small Treatment Fereding -0.1 - Large Control Heipers -0.1 -4.44611 4.87 -1.82570 543	Small	Control	Helpers	4	-	Small	Treatment	Female	-0.1	-3.6839	5.20	-0.70832	539	1.000
Small Control Heipers 4 - Small Treatment Male - <	Small	Control	Helpers	4	-	Small	Treatment	Female	0.1	8.0679	5.20	1.55157	539	1.000
Small Control Heipers 4 - Small Control Heipers 4 - Small Control Heipers 4 - Small Treatment Heipers 0.1 -1.0797 5.20 -0.20761 539 1.000 Small Control Heipers 4 - Small Treatment Heipers 0.1 -1.0797 5.20 -0.20761 539 1.000 Small Treatment Breeding Female -0.1 -1.0797 5.20 -1.56826 539 1.000 Small Treatment Breeding Female -0.1 -2.4481 5.20 -1.56826 539 1.000 Small Treatment Breeding Female -0.1 -2.4481 5.20 -1.26826 543 1.000 Small Treatment Breeding Female -0.1 -2.4481 5.20 -0.1701 543 1.000 Small Treatment Breeding Female -0.1 -3.4786 4.87	Small	Control	Helpers	4	-	Small	Treatment	Male	-0.1	-10.1006	5.20	-1.94208	539	1.000
Small Control Helpers 4 - Small Treatment Helpers 0.1 5.7762 5.20 1.11085 539 1.000 Small Treatment Freeding Freeding Freeding -0.1 -5.0730 5.20 -0.97542 539 1.000 Small Treatment Freeding Freeding Freeding -0.1 - Large Control Breeding Male -0.1 -8.1564 5.20 -0.47574 539 1.000 Small Treatment Freeding Freeding -0.1 - Large Control Helpers -0.1 -8.4886 4.87 -1.82570 543 1.000 Small Treatment Freeding Freeding -0.1 - 1.44611 4.87 -2.96694 543 1.000 Small Treatment Freeding Freeding -0.1 - 3.4786 4.87 -0.7186 543 1.000 Small Treatment Freeding Freeding -0.1 - 4.87 -0.10118 539 </td <td>Small</td> <td>Control</td> <td>Helpers</td> <td>4</td> <td>-</td> <td>Small</td> <td>Treatment</td> <td>0</td> <td>0.1</td> <td>-44.0155</td> <td>5.20</td> <td>-8.46482</td> <td>539</td> <td><.001</td>	Small	Control	Helpers	4	-	Small	Treatment	0	0.1	-44.0155	5.20	-8.46482	539	<.001
Small Treatment Breading Female 0.1 \cdot Large Control Breading Female 0.1 \cdot S.0730 5.20 0.97542 539 1.000 Small Treatment Female 0.1 \cdot Large Control Male 0.1 \cdot 8.1564 5.20 \cdot 1.56826 539 1.000 Small Treatment Female 0.1 \cdot Large Control Helpers 0.1 \cdot 8.1564 5.20 \cdot 1.56826 539 1.000 Small Treatment Female 0.1 \cdot Large Control Helpers 0.1 \cdot 4.481 5.20 \cdot 4.7071 539 1.000 Small Treatment Breeding 0.1 \cdot Large Treatment Breeding 0.1 \cdot 4.4611 4.87 \cdot 2.96694 543 1.000 Small Treatment Breeding 0.1 \cdot Small Control Breeding 0.1 \cdot 4.67 0.71369 543 1.000 Small Treatme					-									
Small Treatment Female 0.1 2 Large Control Female 0.1 3.0730 5.20 0.9732 0.39 1.000 Small Treatment Female 0.1 - Large Control Breeding Female 0.1 - Large Control Helpers -0.1 - 1.8564 5.20 -1.56826 539 1.000 Small Treatment Female -0.1 - Large Control Helpers -0.1 - 4.81564 5.20 -4.7071 539 1.000 Small Treatment Fereding Female -0.1 - 4.4611 4.87 -2.96694 543 1.000 Small Treatment Fereale -0.1 - Small Control Breeding Fereale -0.1 -0.5730 5.20 -0.11018 539 1.000 Small Treatment Fereale -0.1 - - Small Control Breeding Fereal	Small	Control		4	-	Small	Treatment		0.1	5.7762	5.20	1.11085	539	1.000
Small Treatment Female 0.1 c Large Control Male 0.1 0.1 0.1 0.1 0.1 Carge Control Helpers 0.1 2.4811 5.20 0.47071 539 1.000 Small Treatment Breeding Female 0.1 - Large Treatment Breeding Female 0.1 2.4481 5.20 0.47071 539 1.000 Small Treatment Breeding Female 0.1 - Large Treatment Breeding Female 0.1 -14.4611 4.87 -2.96694 543 1.000 Small Treatment Breeding Female 0.1 - Large Treatment Breeding Female -0.1 -0.7370 5.20 -0.11018 539 1.000 Small Treatment Breeding Female -0.1 Small Control Breeding Male -0.1 -0.40464 5.20 -2.00088 539 1.000 Small Treatment Breeding Female	Small	Treatment	Female	-0.1	-	Large	Control	Female	-0.1	-5.0730	5.20	-0.97542	539	1.000
Small Treatment Female 0.1 - Large Control Helpers -0.1 2.4481 5.20 0.47071 5.39 1.000 Small Treatment Breeding Female -0.1 - Large Treatment Breeding Female -0.1 -6.8986 4.87 -1.82570 543 1.000 Small Treatment Breeding Female -0.1 -1.4.4611 4.87 -2.96694 543 1.000 Small Treatment Breeding Female -0.1 -0.4.4611 4.87 -2.96694 543 1.000 Small Treatment Breeding Female -0.1 -0.5730 5.20 -0.11018 539 1.000 Small Treatment Breeding Female -0.1 - Small Control Breeding Breeding -0.1 -0.4064 5.20 -0.7227 539 1.000 Small Treatment Breeding Female -0.1 -6.4167 5.19 -1.23613 549 1.000	Small	Treatment	Female	-0.1	-	Large	Control	0	-0.1	-8.1564	5.20	-1.56826	539	1.000
Small Treatment Female -0.1 - Large Treatment Female -0.1 -1.2570 543 1.000 Small Treatment Breeding Female -0.1 - Large Treatment Breeding Male -0.1 -14.4611 4.87 -2.96694 543 1.000 Small Treatment Breeding Female -0.1 - Large Treatment Breeding Heeding -0.1 -14.4611 4.87 -2.96694 543 1.000 Small Treatment Breeding Female -0.1 - Small Control Breeding Breeding -0.1 -0.5730 5.20 -0.11018 539 1.000 Small Treatment Breeding Female -0.1 - Small Control Helpers -0.1 -0.4064 5.20 -0.1018 539 1.000 Small Treatment Breeding Female -0.1 - Small Control Helpers -0.1 -6.4167 5.19 -1.23613 549 1.000 Small Treatment Breeding Female -0.1 - Small Treatmen	Small	Treatment	Female	-0.1	-	Large	Control		-0.1	2.4481	5.20	0.47071	539	1.000
Small Treatment Female -0.1 -1.4.4011 4.87 -2.30694 543 1.000 Small Treatment Breeding Female -0.1 - Large Treatment Helpers -0.1 3.4786 4.87 0.71369 543 1.000 Small Treatment Breeding Female -0.1 - Small Control Breeding Female -0.1 -0.5730 5.20 -0.11018 539 1.000 Small Treatment Breeding Female -0.1 - Small Control Breeding Male -0.1 -0.5730 5.20 -0.11018 539 1.000 Small Treatment Breeding Female -0.1 - Small Control Helpers -0.1 3.4964 5.20 -0.67227 539 1.000 Small Treatment Breeding Female -0.1 - Small Treatment Breeding Female -0.1 - 6.4167 5.19 - - 3.496 1.000 Small Treatment Breeding Female	Small	Treatment	Female	-0.1	-	Large	Treatment	Female	-0.1	-8.8986	4.87	-1.82570	543	1.000
SmallTreatmentFemale Female -0.1 -1 LargeIneatmentHeipers -0.1 -3.4786 4.87 0.7139 54.3 1.000 SmallTreatmentBreeding Female -0.1 -3 SmallControlBreeding Male -0.1 -0.5730 5.20 -0.11018 539 1.000 SmallTreatmentBreeding Female -0.1 -3 SmallControlBreeding Male -0.1 -10.4064 5.20 -2.00088 539 1.000 SmallTreatmentBreeding Female -0.1 -3 SmallControlHelpers -0.1 -10.4064 5.20 -2.00088 539 1.000 SmallTreatmentBreeding Female -0.1 -3 SmallControlHelpers -0.1 -10.4064 5.20 0.67227 539 1.000 SmallTreatmentBreeding Female -0.1 -6.4167 5.19 -1.23613 549 1.000 SmallTreatmentBreeding Female -0.1 -6.4167 5.19 -0.5176 549 1.000 SmallTreatmentBreeding Female 0.1 -1 SmallTreatmentHelpers -0.1 -6.4167 5.19 -1.23613 549 1.000 SmallTreatmentBreeding Female 0.1 -1 Small -0.1 -16.8248 5.20 -3.23566 539 1.000 SmallTreatment	Small	Treatment	Female	-0.1	-	Large	Treatment		-0.1	-14.4611	4.87	-2.96694	543	1.000
Small Treatment Female -0.1 -0.1 -0.17330 5.20 -0.11018 539 1.000 Small Treatment Breeding Female -0.1 - Small Control Breeding Male -0.1 -10.4064 5.20 -2.00088 539 1.000 Small Treatment Breeding Female -0.1 - Small Control Helpers -0.1 -10.4064 5.20 -2.00088 539 1.000 Small Treatment Breeding Female -0.1 - Small Control Helpers -0.1 -6.4167 5.19 -1.23613 549 1.000 Small Treatment Breeding Female -0.1 - Small Treatment Helpers -0.1 -6.4167 5.19 -1.23613 549 1.000 Small Treatment Breeding Female -0.1 - Large Control Breeding Female -0.1 -16.8248 5.20 -3.23566 539 1.000 Small Treatment Breeding Female 0.1 - Large	Small	Treatment	Female	-0.1	-	Large	Treatment		-0.1	3.4786	4.87	0.71369	543	1.000
SmallTreatmentFemale -0.1 -1 SmallControlMale -0.1 -10.4064 5.20 -2.00088 539 1.000 SmallTreatmentBreeding Female 0.1 -1 SmallControlHelpers -0.1 3.4964 5.20 0.67227 539 1.000 SmallTreatmentBreeding Female 0.1 -1 SmallTreatmentBreeding Male -0.1 -6.4167 5.19 -1.23613 549 1.000 SmallTreatmentBreeding Female -0.1 -5 SmallTreatmentHelpers -0.1 -6.4167 5.19 -1.23613 549 1.000 SmallTreatmentBreeding Female -0.1 -5 SmallTreatmentHelpers -0.1 -6.4167 5.19 -1.23613 549 1.000 SmallTreatmentBreeding Female -0.1 -5 SmallTreatmentHelpers -0.1 -16.8248 5.20 -3.23566 539 1.000 SmallTreatmentBreeding Female 0.1 -1 LargeControlBreeding Female -0.1 -16.8248 5.20 -4.19724 539 0.036 SmallTreatmentBreeding Female 0.1 -1 LargeControlBreeding Male -0.1 -9.037 5.20 -4.05300 539 0.065 SmallTreatmentBreeding Female 0.1 -1 La	Small	Treatment	Female	-0.1	-	Small	Control	Female	-0.1	-0.5730	5.20	-0.11018	539	1.000
SmallTreatmentFemale Female -0.1 $-$ SmallControlHelpers -0.1 3.4964 5.20 0.67227 539 1.000 SmallTreatmentBreeding Female -0.1 $-$ SmallTreatmentBreeding Male -0.1 -6.4167 5.19 -1.23613 549 1.000 SmallTreatmentBreeding Female -0.1 $-$ SmallTreatmentHelpers -0.1 -6.4167 5.19 -1.23613 549 1.000 SmallTreatmentBreeding Female 0.1 $-$ SmallTreatmentHelpers -0.1 -6.4167 5.19 -1.23613 549 1.000 SmallTreatmentBreeding Female 0.1 $-$ SmallTreatmentHelpers -0.1 -6.4167 5.19 -1.23613 549 1.000 SmallTreatmentBreeding Female 0.1 $-$ LargeControlBreeding Female 0.1 -16.8248 5.20 -3.23566 539 1.000 SmallTreatmentBreeding Female 0.1 $-$ LargeControlBreeding Male -0.1 -16.8248 5.20 -4.19724 539 0.036 SmallTreatmentBreeding Female 0.1 $-$ LargeControlBreeding Male -0.1 -19.9082 5.20 -4.05300 539 0.065 SmallTreatmentBreeding Female 0.1	Small	Treatment	Female	-0.1	-	Small	Control	0	-0.1	-10.4064	5.20	-2.00088	539	1.000
Small Treatment Female -0.1 - Small Treatment Male -0.1 -6.4167 5.19 -1.23613 549 1.000 Small Treatment Breeding Female -0.1 - Small Treatment Helpers -0.1 2.6042 5.19 0.50167 549 1.000 Small Treatment Breeding Female 0.1 - Large Control Breeding Female -0.1 -16.8248 5.20 -3.23566 539 1.000 Small Treatment Breeding Female 0.1 - Large Control Breeding Female -0.1 -16.8248 5.20 -3.82863 539 0.036 Small Treatment Breeding Female 0.1 - Large Control Breeding Male -0.1 -19.9082 5.20 -3.82863 539 0.065 Small Treatment Breeding Female 0.1 - Large Control Male 0.1 -21.0748 5.20 -4.05300 539 0.065 Small Treatment <td< td=""><td>Small</td><td>Treatment</td><td></td><td>-0.1</td><td>-</td><td>Small</td><td>Control</td><td></td><td>-0.1</td><td>3.4964</td><td>5.20</td><td>0.67227</td><td>539</td><td>1.000</td></td<>	Small	Treatment		-0.1	-	Small	Control		-0.1	3.4964	5.20	0.67227	539	1.000
SmallTreatmentFemale -0.1 $-$ SmallTreatmentHelpers -0.1 2.6042 5.19 0.50167 549 1.000 SmallTreatmentBreeding Female 0.1 $-$ LargeControlBreeding Female -0.1 -16.8248 5.20 -3.23566 539 1.000 SmallTreatmentBreeding Female 0.1 $-$ LargeControlBreeding Female 0.1 -21.8248 5.20 -4.19724 539 0.036 SmallTreatmentBreeding Female 0.1 $-$ LargeControlBreeding Female 0.1 -21.8248 5.20 -4.19724 539 0.036 SmallTreatmentBreeding Female 0.1 $-$ LargeControlBreeding Male 0.1 -21.8248 5.20 -4.19724 539 0.036 SmallTreatmentBreeding Female 0.1 $-$ LargeControlBreeding Male 0.1 -21.0748 5.20 -4.05300 539 0.065 SmallTreatmentBreeding Female 0.1 $-$ LargeControlHelpers -0.1 -9.3037 5.20 -1.78924 539 1.000 SmallTreatmentBreeding Female 0.1 $-$ LargeControlHelpers 0.1 -8.3195 5.20 -1.78924 539 1.000 SmallTreatmentBreeding Female 0.1 $-$ <td>Small</td> <td>Treatment</td> <td>Female</td> <td>-0.1</td> <td>-</td> <td>Small</td> <td>Treatment</td> <td>0</td> <td>-0.1</td> <td>-6.4167</td> <td>5.19</td> <td>-1.23613</td> <td>549</td> <td>1.000</td>	Small	Treatment	Female	-0.1	-	Small	Treatment	0	-0.1	-6.4167	5.19	-1.23613	549	1.000
SmallTreatmentFemale 0.1 $-$ LargeControlFemale -0.1 -16.8248 5.20 -3.23566 5.39 1.000 SmallTreatmentBreeding Female 0.1 $-$ LargeControlBreeding Female 0.1 -21.8248 5.20 -4.19724 539 0.036 SmallTreatmentBreeding Female 0.1 $-$ LargeControlBreeding Male -0.1 -19.9082 5.20 -3.82863 539 0.162 SmallTreatmentBreeding Female 0.1 $-$ LargeControlBreeding Male 0.1 -21.0748 5.20 -4.05300 539 0.065 SmallTreatmentBreeding Female 0.1 $-$ LargeControlHelpers 0.1 -21.0748 5.20 -4.05300 539 0.065 SmallTreatmentBreeding Female 0.1 $-$ LargeControlHelpers 0.1 -21.0748 5.20 -1.78924 539 1.000 SmallTreatmentBreeding Female 0.1 $-$ LargeControlHelpers 0.1 -8.3195 5.20 -1.78924 539 1.000 SmallTreatmentBreeding Female 0.1 $-$ LargeControlHelpers 0.1 -8.3195 5.20 -1.78924 539 1.000 SmallTreatmentBreeding Female 0.1 $-$ LargeTreatm	Small	Treatment	Female	-0.1	-	Small	Treatment		-0.1	2.6042	5.19	0.50167	549	1.000
SmallTreatmentFemale 0.1 -LargeControlFemale 0.1 - -21.8248 5.20 -4.19724 5.39 0.036 SmallTreatmentBreeding Female 0.1 -LargeControlBreeding Male -0.1 -19.9082 5.20 -3.82863 539 0.162 SmallTreatmentBreeding Female 0.1 -LargeControlBreeding Male 0.1 -21.0748 5.20 -4.05300 539 0.065 SmallTreatmentBreeding Female 0.1 -LargeControlHelpers -0.1 -9.3037 5.20 -1.78924 539 1.000 SmallTreatmentBreeding Female 0.1 -LargeControlHelpers 0.1 -8.3195 5.20 -1.59996 539 1.000 SmallTreatmentBreeding Female 0.1 -LargeControlHelpers 0.1 -8.3195 5.20 -1.59996 539 1.000 SmallTreatmentBreeding Female 0.1 -LargeTreatmentBreeding Female -0.1 -20.6504 4.87 -4.24048 544 0.030 SmallTreatmentBreeding Female 0.1 -LargeTreatmentBreeding Female -0.1 -20.4018 4.87 -4.18881 543 0.037 SmallTreatmentBreeding Female 0.1 -Large<	Small	Treatment	Female	0.1	-	Large	Control	Female	-0.1	-16.8248	5.20	-3.23566	539	1.000
SmallTreatmentFemale 0.1 -LargeControlMale19.90825.203.828635.39 0.162 SmallTreatmentBreeding Female 0.1 -LargeControlBreeding Male 0.1 21.0748 5.20 5.39 0.065 SmallTreatmentBreeding Female 0.1 -LargeControlHelpers-0.1- -9.3037 5.20 - -1.78924 539 1.000 SmallTreatmentBreeding Female 0.1 -LargeControlHelpers 0.1 - -8.3195 5.20 - -1.59996 539 1.000 SmallTreatmentBreeding Female 0.1 -LargeControlHelpers 0.1 - -8.3195 5.20 - -1.59996 539 1.000 SmallTreatmentBreeding Female 0.1 -LargeTreatmentBreeding Female -0.1 -20.6504 4.87 -4.24048 544 0.030 SmallTreatmentBreeding Female 0.1 -LargeTreatmentBreeding Female 0.1 -20.4018 4.87 -4.18881 543 0.037 SmallTreatmentBreeding Female 0.1 -LargeTreatmentBreeding Female 0.1 -20.4018 4.87 -4.18881 544 0.037	Small	Treatment		0.1	-	Large	Control	Breeding Female	0.1	-21.8248	5.20	-4.19724	539	0.036
Small Treatment Female 0.1 - Large Control Male 0.1 - -21.0748 5.20 - -4.05300 539 0.065 Small Treatment Breeding Female 0.1 - Large Control Helpers -0.1 -9.3037 5.20 -1.78924 539 1.000 Small Treatment Breeding Female 0.1 - Large Control Helpers 0.1 -8.3195 5.20 -1.78924 539 1.000 Small Treatment Breeding Female 0.1 - Large Control Helpers 0.1 -8.3195 5.20 -1.59996 539 1.000 Small Treatment Breeding Female 0.1 - Large Treatment Breeding Female -0.1 -20.6504 4.87 -4.24048 544 0.030 Small Treatment Breeding Female 0.1 - Large Treatment Breeding Female 0.1 -20.4018 4.87 -4.18881	Small	Treatment		0.1	-	Large	Control	0	-0.1	-19.9082	5.20	-3.82863	539	0.162
SmallTreatmentFemale Female 0.1 -LargeControlHelpers -0.1 - -9.3037 5.20 -1.78924 539 1.000 SmallTreatmentBreeding Female 0.1 -LargeControlHelpers 0.1 - -8.3195 5.20 -1.78924 539 1.000 SmallTreatmentBreeding Female 0.1 -LargeControlHelpers 0.1 -8.3195 5.20 -1.59996 539 1.000 SmallTreatmentBreeding Female 0.1 -LargeTreatmentBreeding Female 0.1 -20.6504 4.87 -4.24048 544 0.030 SmallTreatmentBreeding Female 0.1 -LargeTreatmentBreeding Female 0.1 -20.4018 4.87 -4.18881 543 0.037 SmallTreatmentBreeding Female 0.1 -LargeTreatmentBreeding Female 0.1 -20.4018 4.87 -5.38272 544 < 001	Small	Treatment	Female	0.1	-	Large	Control	0	0.1	-21.0748	5.20	-4.05300	539	0.065
SmallTreatmentFemale 0.1 -LargeControlHelpers 0.1 - 8.3195 5.20 -1.59996 539 1.000SmallTreatmentBreeding Female 0.1 -LargeTreatmentBreeding Female -0.1 -20.6504 4.87 -4.24048 544 0.030 SmallTreatmentBreeding Female 0.1 -LargeTreatmentBreeding Female 0.1 -20.4018 4.87 -4.18881 543 0.037 SmallTreatmentBreeding Female 0.1 -LargeTreatmentBreeding Female 0.1 -26.2129 4.87 -5.38272 544 < 001	Small	Treatment	Female	0.1	-	Large	Control	Helpers	-0.1	-9.3037	5.20	-1.78924	539	1.000
SmallTreatmentFemale 0.1 $-$ LargeTreatmentFemale -0.1 -20.8304 4.67 -4.24046 544 0.030 SmallTreatmentBreeding Female 0.1 $-$ LargeTreatmentBreeding Female 0.1 -20.4018 4.87 -4.18881 543 0.037 SmallTreatmentBreeding Female 0.1 $-$ LargeTreatmentBreeding Female 0.1 -26.2129 4.87 -5.38272 544 < 001	Small	Treatment	Female	0.1	-	Large	Control	Helpers	0.1	-8.3195	5.20	-1.59996	539	1.000
Small Treatment Female 0.1 - Large Treatment Female 0.1 -20.4018 4.67 -4.18681 545 0.037	Small	Treatment	Female	0.1	-	Large	Treatment		-0.1	-20.6504	4.87	-4.24048	544	0.030
	Small	Treatment	Female	0.1	-	Large	Treatment		0.1	-20.4018	4.87	-4.18881	543	0.037
	Small	Treatment		0.1	-	Large	Treatment	0	-0.1	-26.2129	4.87	-5.38272	544	<.001

			Con	npa	rison								
Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	Pbonferroni
Small	Treatment	Breeding Female	0.1	-	Large	Treatment	Breeding Male	0.1	-29.6518	4.87	-6.08798	543	<.001
Small	Treatment	Breeding Female	0.1	-	Large	Treatment	Helpers	-0.1	-8.2732	4.87	-1.69887	544	1.000
Small	Treatment	Breeding Female	0.1	-	Large	Treatment	Helpers	0.1	-7.7760	4.87	-1.59654	543	1.000
Small	Treatment	Breeding Female	0.1	-	Small	Control	Breeding Female	-0.1	-12.3248	5.20	-2.37024	539	1.000
Small	Treatment	Breeding Female	0.1	-	Small	Control	Breeding Female	0.1	-14.9915	5.20	-2.88308	539	1.000
Small	Treatment	Breeding Female	0.1	-	Small	Control	Breeding Male	-0.1	-22.1582	5.20	-4.26134	539	0.027
Small	Treatment	Breeding Female	0.1	-	Small	Control	Breeding Male	0.1	-28.7415	5.20	-5.52741	539	<.001
Small	Treatment	Breeding Female	0.1	-	Small	Control	Helpers	-0.1	-8.2554	5.20	-1.58763	539	1.000
Small	Treatment	Breeding Female	0.1	-	Small	Control	Helpers	0.1	-5.7623	5.20	-1.10818	539	1.000
Small	Treatment	Breeding Female	0.1	-	Small	Treatment	Breeding Female	-0.1	-11.7518	5.19	-2.26268	551	1.000
Small	Treatment	Breeding Female	0.1	-	Small	Treatment	Breeding Male	-0.1	-18.1685	5.19	-3.49814	551	0.571
Small	Treatment	Breeding Female	0.1	-	Small	Treatment	Breeding Male	0.1	-52.0833	5.19	-10.03349	549	<.001
Small	Treatment	Breeding Female	0.1	-	Small	Treatment	Helpers	-0.1	-9.1476	5.19	-1.76128	551	1.000
Small	Treatment	Breeding Female	0.1	-	Small	Treatment	Helpers	0.1	-2.2917	5.19	-0.44147	549	1.000
Small	Treatment	Breeding Female	24	-	Large	Control	Breeding Female	-0.1	-7.9082	5.20	-1.52085	539	1.000
Small	Treatment	Breeding Female	24	-	Large	Control	Breeding Female	0.1	-12.9082	5.20	-2.48243	539	1.000
Small	Treatment	Breeding Female	24	-	Large	Control	Breeding Female	24	-9.9915	5.20	-1.92151	539	1.000
Small	Treatment	Breeding Female	24	-	Large	Control	Breeding Female	4	-9.1582	5.20	-1.76125	539	1.000
Small	Treatment	Breeding Female	24	-	Large	Control	Breeding Male	-0.1	-10.9915	5.20	-2.11383	539	1.000
Small	Treatment	Breeding Female	24	-	Large	Control	Breeding Male	0.1	-12.1582	5.20	-2.33819	539	1.000
Small	Treatment	Breeding Female	24	-	Large	Control	Breeding Male	24	-8.4082	5.20	-1.61701	539	1.000
Small	Treatment	Breeding Female	24	-	Large	Control	Breeding Male	4	-8.4915	5.20	-1.63304	539	1.000
Small	Treatment	Breeding Female	24	-	Large	Control	Helpers	-0.1	-0.3870	5.20	-0.07443	539	1.000
Small	Treatment	Breeding Female	24	-	Large	Control	Helpers	0.1	0.5972	5.20	0.11485	539	1.000
Small	Treatment	Breeding Female	24	-	Large	Control	Helpers	24	-0.5635	5.20	-0.10837	539	1.000
Small	Treatment	Breeding Female	24	-	Large	Control	Helpers	4	-0.6430	5.20	-0.12365	539	1.000
Small	Treatment	Breeding Female	24	-	Large	Treatment	Breeding Female	-0.1	-11.7338	4.87	-2.40948	544	1.000
Small	Treatment	Breeding Female	24	-	Large	Treatment	Breeding Female	0.1	-11.4851	4.87	-2.35808	543	1.000
Small	Treatment	Breeding Female	24	-	Large	Treatment	Breeding Female	24	-8.7351	4.87	-1.79346	543	1.000
Small	Treatment	Breeding Female	24	-	Large	Treatment	Breeding Female	4	4.3274	4.87	0.88849	543	1.000
Small	Treatment	Breeding Female	24	-	Large	Treatment	Breeding Male	-0.1	-17.2963	4.87	-3.55172	544	0.469
Small	Treatment	Breeding Female	24	-	Large	Treatment	Breeding Male	0.1	-20.7351	4.87	-4.25725	543	0.028
Small	Treatment	Breeding Female	24	-	Large	Treatment	Breeding Male	24	-36.7976	4.87	-7.55514	543	<.001
Small	Treatment	Breeding Female	24	-	Large	Treatment	Breeding Male	4	-40.9851	4.87	-8.41490	543	<.001

			Con	npa	rison								
Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	Pbonferroni
Small	Treatment	Breeding Female	24	-	Large	Treatment	Helpers	-0.1	0.6435	4.87	0.13213	544	1.000
Small	Treatment	Breeding Female	24	-	Large	Treatment	Helpers	0.1	1.1406	4.87	0.23419	543	1.000
Small	Treatment	Breeding Female	24	-	Large	Treatment	Helpers	24	2.7363	4.87	0.56180	543	1.000
Small	Treatment	Breeding Female	24	-	Large	Treatment	Helpers	4	1.6518	4.87	0.33914	543	1.000
Small	Treatment	Breeding Female	24	-	Small	Control	Breeding Female	-0.1	-3.4082	5.20	-0.65544	539	1.000
Small	Treatment	Breeding Female	24	-	Small	Control	Breeding Female	0.1	-6.0748	5.20	-1.16828	539	1.000
Small	Treatment	Breeding Female	24	-	Small	Control	Breeding Female	24	-4.1582	5.20	-0.79967	539	1.000
Small	Treatment	Breeding Female	24	-	Small	Control	Breeding Female	4	-4.2415	5.20	-0.81570	539	1.000
Small	Treatment	Breeding Female	24	-	Small	Control	Breeding Male	-0.1	-13.2415	5.20	-2.54653	539	1.000
Small	Treatment	Breeding Female	24	-	Small	Control	Breeding Male	0.1	-19.8248	5.20	-3.81261	539	0.173
Small	Treatment	Breeding Female	24	-	Small	Control	Breeding Male	24	-14.5748	5.20	-2.80295	539	1.000
Small	Treatment	Breeding Female	24	-	Small	Control	Breeding Male	4	-13.0748	5.20	-2.51448	539	1.000
Small	Treatment	Breeding Female	24	-	Small	Control	Helpers	-0.1	0.6613	5.20	0.12718	539	1.000
Small	Treatment	Breeding Female	24	-	Small	Control	Helpers	0.1	3.1543	5.20	0.60663	539	1.000
Small	Treatment	Breeding Female	24	-	Small	Control	Helpers	24	1.2238	5.20	0.23535	539	1.000
Small	Treatment	Breeding Female	24	-	Small	Control	Helpers	4	0.8488	5.20	0.16324	539	1.000
Small	Treatment	Breeding Female	24	-	Small	Treatment	Breeding Female	-0.1	-2.8351	5.19	-0.54587	551	1.000
Small	Treatment	Breeding Female	24	-	Small	Treatment	Breeding Female	0.1	8.9167	5.19	1.71773	549	1.000
Small	Treatment	Breeding Female	24	-	Small	Treatment	Breeding Female	4	1.6667	5.19	0.32107	549	1.000
Small	Treatment	Breeding Female	24	-	Small	Treatment	Breeding Male	-0.1	-9.2518	5.19	-1.78133	551	1.000
Small	Treatment	Breeding Female	24	-	Small	Treatment	Breeding Male	0.1	-43.1667	5.19	-8.31576	549	<.001
Small	Treatment	Breeding Female	24	-	Small	Treatment	Breeding Male	24	-22.4167	5.19	-4.31841	549	0.021
Small	Treatment	Breeding Female	24	-	Small	Treatment	Breeding Male	4	-20.2500	5.19	-3.90102	549	0.121
Small	Treatment	Breeding Female	24	-	Small	Treatment	Helpers	-0.1	-0.2310	5.19	-0.04447	551	1.000
Small	Treatment	Breeding Female	24	-	Small	Treatment	Helpers	0.1	6.6250	5.19	1.27626	549	1.000
Small	Treatment	Breeding Female	24	-	Small	Treatment	Helpers	24	4.0000	5.19	0.77057	549	1.000
Small	Treatment	Breeding Female	24	-	Small	Treatment	Helpers	4	2.3125	5.19	0.44549	549	1.000
Small	Treatment	Breeding Female	4	-	Large	Control	Breeding Female	-0.1	-9.5748	5.20	-1.84138	539	1.000
Small	Treatment	Breeding Female	4	-	Large	Control	Breeding Female	0.1	-14.5748	5.20	-2.80295	539	1.000
Small	Treatment	Breeding Female	4	-	Large	Control	Breeding Female	4	-10.8248	5.20	-2.08177	539	1.000
Small	Treatment	Breeding Female	4	-	Large	Control	Breeding Male	-0.1	-12.6582	5.20	-2.43435	539	1.000
Small	Treatment	Breeding Female	4	-	Large	Control	Breeding Male	0.1	-13.8248	5.20	-2.65872	539	1.000
Small	Treatment	Breeding Female	4	-	Large	Control	Breeding Male	4	-10.1582	5.20	-1.95356	539	1.000
Small	Treatment	Breeding Female	4	-	Large	Control	Helpers	-0.1	-2.0537	5.20	-0.39495	539	1.000

			Con	npa	rison								
Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	Pbonferroni
Small	Treatment	Breeding Female	4	-	Large	Control	Helpers	0.1	-1.0695	5.20	-0.20567	539	1.000
Small	Treatment	Breeding Female	4	-	Large	Control	Helpers	4	-2.3096	5.20	-0.44418	539	1.000
Small	Treatment	Breeding Female	4	-	Large	Treatment	Breeding Female	-0.1	-13.4004	4.87	-2.75172	544	1.000
Small	Treatment	Breeding Female	4	-	Large	Treatment	Breeding Female	0.1	-13.1518	4.87	-2.70027	543	1.000
Small	Treatment	Breeding Female	4	-	Large	Treatment	Breeding Female	4	2.6607	4.87	0.54629	543	1.000
Small	Treatment	Breeding Female	4	-	Large	Treatment	Breeding Male	-0.1	-18.9629	4.87	-3.89396	544	0.125
Small	Treatment	Breeding Female	4	-	Large	Treatment	Breeding Male	0.1	-22.4018	4.87	-4.59944	543	0.006
Small	Treatment	Breeding Female	4	-	Large	Treatment	Breeding Male	4	-42.6518	4.87	-8.75709	543	<.001
Small	Treatment	Breeding Female	4	-	Large	Treatment	Helpers	-0.1	-1.0232	4.87	-0.21011	544	1.000
Small	Treatment	Breeding Female	4	-	Large	Treatment	Helpers	0.1	-0.5260	4.87	-0.10800	543	1.000
Small	Treatment	Breeding Female	4	-	Large	Treatment	Helpers	4	-0.0149	4.87	-0.00305	543	1.000
Small	Treatment	Breeding Female	4	-	Small	Control	Breeding Female	-0.1	-5.0748	5.20	-0.97596	539	1.000
Small	Treatment	Breeding Female	4	-	Small	Control	Breeding Female	0.1	-7.7415	5.20	-1.48880	539	1.000
Small	Treatment	Breeding Female	4	-	Small	Control	Breeding Female	4	-5.9082	5.20	-1.13622	539	1.000
Small	Treatment	Breeding Female	4	-	Small	Control	Breeding Male	-0.1	-14.9082	5.20	-2.86706	539	1.000
Small	Treatment	Breeding Female	4	-	Small	Control	Breeding Male	0.1	-21.4915	5.20	-4.13313	539	0.047
Small	Treatment	Breeding Female	4	-	Small	Control	Breeding Male	4	-14.7415	5.20	-2.83501	539	1.000
Small	Treatment	Breeding Female	4	-	Small	Control	Helpers	-0.1	-1.0054	5.20	-0.19335	539	1.000
Small	Treatment	Breeding Female	4	-	Small	Control	Helpers	0.1	1.4877	5.20	0.28610	539	1.000
Small	Treatment	Breeding Female	4	-	Small	Control	Helpers	4	-0.8179	5.20	-0.15729	539	1.000
Small	Treatment	Breeding Female	4	-	Small	Treatment	Breeding Female	-0.1	-4.5018	5.19	-0.86677	551	1.000
Small	Treatment	Breeding Female	4	-	Small	Treatment	Breeding Female	0.1	7.2500	5.19	1.39666	549	1.000
Small	Treatment	Breeding Female	4	-	Small	Treatment	Breeding Male	-0.1	-10.9185	5.19	-2.10223	551	1.000
Small	Treatment	Breeding Female	4	-	Small	Treatment	Breeding Male	0.1	-44.8333	5.19	-8.63683	549	<.001
Small	Treatment	Breeding Female	4	-	Small	Treatment	Breeding Male	4	-21.9167	5.19	-4.22209	549	0.032
Small	Treatment	Breeding Female	4	-	Small	Treatment	Helpers	-0.1	-1.8976	5.19	-0.36537	551	1.000
Small	Treatment	Breeding Female	4	-	Small	Treatment	Helpers	0.1	4.9583	5.19	0.95519	549	1.000
Small	Treatment	Breeding Female	4	-	Small	Treatment	Helpers	4	0.6458	5.19	0.12442	549	1.000
Small	Treatment	Breeding Male	-0.1	-	Large	Control	Breeding Male	-0.1	-1.7397	5.20	-0.33450	539	1.000
Small	Treatment	Breeding Male	-0.1	-	Large	Control	Helpers	-0.1	8.8648	5.20	1.70447	539	1.000
Small	Treatment	Breeding Male	-0.1	-	Large	Treatment	Breeding Male	-0.1	-8.0445	4.87	-1.65045	543	1.000
Small	Treatment	Breeding Male	-0.1	-	Large	Treatment	Helpers	-0.1	9.8953	4.87	2.03017	543	1.000
Small	Treatment	Breeding Male	-0.1	-	Small	Control	Breeding Male	-0.1	-3.9897	5.20	-0.76712	539	1.000
Small	Treatment	Breeding Male	-0.1	-	Small	Control	Helpers	-0.1	9.9131	5.20	1.90603	539	1.000

			Cor	npa	rison				_				
Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	p _{bonferroni}
Small	Treatment	Breeding Male	-0.1	-	Small	Treatment	Helpers	-0.1	9.0208	5.19	1.73780	549	1.000
Small	Treatment	Breeding Male	0.1	-	Large	Control	Breeding Female	-0.1	35.2585	5.20	6.78073	539	<.001
Small	Treatment	Breeding Male	0.1	-	Large	Control	Breeding Male	-0.1	32.1752	5.20	6.18776	539	<.001
Small	Treatment	Breeding Male	0.1	-	Large	Control	Breeding Male	0.1	31.0085	5.20	5.96340	539	<.001
Small	Treatment	Breeding Male	0.1	-	Large	Control	Helpers	-0.1	42.7796	5.20	8.22716	539	<.001
Small	Treatment	Breeding Male	0.1	-	Large	Control	Helpers	0.1	43.7639	5.20	8.41644	539	<.001
Small	Treatment	Breeding Male	0.1	-	Large	Treatment	Breeding Female	-0.1	31.4329	4.87	6.45462	544	<.001
Small	Treatment	Breeding Male	0.1	-	Large	Treatment	Breeding Male	-0.1	25.8704	4.87	5.31238	544	<.001
Small	Treatment	Breeding Male	0.1	-	Large	Treatment	Breeding Male	0.1	22.4316	4.87	4.60556	543	0.006
Small	Treatment	Breeding Male	0.1	-	Large	Treatment	Helpers	-0.1	43.8101	4.87	8.99624	544	<.001
Small	Treatment	Breeding Male	0.1	-	Large	Treatment	Helpers	0.1	44.3073	4.87	9.09700	543	<.001
Small	Treatment	Breeding Male	0.1	-	Small	Control	Breeding Female	-0.1	39.7585	5.20	7.64615	539	<.001
Small	Treatment	Breeding Male	0.1	-	Small	Control	Breeding Male	-0.1	29.9252	5.20	5.75506	539	<.001
Small	Treatment	Breeding Male	0.1	-	Small	Control	Breeding Male	0.1	23.3418	5.20	4.48898	539	0.010
Small	Treatment	Breeding Male	0.1	-	Small	Control	Helpers	-0.1	43.8280	5.20	8.42877	539	<.001
Small	Treatment	Breeding Male	0.1	-	Small	Control	Helpers	0.1	46.3210	5.20	8.90822	539	<.001
Small	Treatment	Breeding Male	0.1	-	Small	Treatment	Breeding Female	-0.1	40.3315	5.19	7.76541	551	<.001
Small	Treatment	Breeding Male	0.1	-	Small	Treatment	Breeding Male	-0.1	33.9149	5.19	6.52995	551	<.001
Small	Treatment	Breeding Male	0.1	-	Small	Treatment	Helpers	-0.1	42.9357	5.19	8.26681	551	<.001
Small	Treatment	Breeding Male	0.1	-	Small	Treatment	Helpers	0.1	49.7917	5.19	9.59202	549	<.001
Small	Treatment	Breeding Male	24	-	Large	Control	Breeding Female	-0.1	14.5085	5.20	2.79020	539	1.000
Small	Treatment	Breeding Male	24	-	Large	Control	Breeding Female	0.1	9.5085	5.20	1.82863	539	1.000
Small	Treatment	Breeding Male	24	-	Large	Control	Breeding Female	4	13.2585	5.20	2.54981	539	1.000
Small	Treatment	Breeding Male	24	-	Large	Control	Breeding Male	-0.1	11.4252	5.20	2.19723	539	1.000
Small	Treatment	Breeding Male	24	-	Large	Control	Breeding Male	0.1	10.2585	5.20	1.97286	539	1.000
Small	Treatment	Breeding Male	24	-	Large	Control	Breeding Male	24	14.0085	5.20	2.69404	539	1.000
Small	Treatment	Breeding Male	24	-	Large	Control	Breeding Male	4	13.9252	5.20	2.67802	539	1.000
Small	Treatment	Breeding Male	24	-	Large	Control	Helpers	-0.1	22.0296	5.20	4.23663	539	0.030
Small	Treatment	Breeding Male	24	-	Large	Control	Helpers	0.1	23.0139	5.20	4.42591	539	0.013
Small	Treatment	Breeding Male	24	-	Large	Control	Helpers	24	21.8532	5.20	4.20269	539	0.035
Small	Treatment	Breeding Male	24	-	Large	Control	Helpers	4	21.7737	5.20	4.18740	539	0.037
Small	Treatment	Breeding Male	24	-	Large	Treatment	Breeding Female	-0.1	10.6829	4.87	2.19369	544	1.000
Small	Treatment	Breeding Male	24	-	Large	Treatment	Breeding Female	0.1	10.9316	4.87	2.24443	543	1.000
Small	Treatment	Breeding Male	24	-	Large	Treatment	Breeding Female	4	26.7441	4.87	5.49099	543	<.001

			Con	npa	rison								
Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	Pbonferroni
Small	Treatment	Breeding Male	24	-	Large	Treatment	Breeding Male	-0.1	5.1204	4.87	1.05146	544	1.000
Small	Treatment	Breeding Male	24	-	Large	Treatment	Breeding Male	0.1	1.6816	4.87	0.34525	543	1.000
Small	Treatment	Breeding Male	24	-	Large	Treatment	Breeding Male	24	-14.3809	4.87	-2.95264	543	1.000
Small	Treatment	Breeding Male	24	-	Large	Treatment	Breeding Male	4	-18.5684	4.87	-3.81240	543	0.173
Small	Treatment	Breeding Male	24	-	Large	Treatment	Helpers	-0.1	23.0601	4.87	4.73531	544	0.003
Small	Treatment	Breeding Male	24	-	Large	Treatment	Helpers	0.1	23.5573	4.87	4.83670	543	0.002
Small	Treatment	Breeding Male	24	-	Large	Treatment	Helpers	24	25.1529	4.87	5.16430	543	<.001
Small	Treatment	Breeding Male	24	-	Large	Treatment	Helpers	4	24.0685	4.87	4.94164	543	0.001
Small	Treatment	Breeding Male	24	-	Small	Control	Breeding Female	-0.1	19.0085	5.20	3.65562	539	0.318
Small	Treatment	Breeding Male	24	-	Small	Control	Breeding Female	0.1	16.3418	5.20	3.14278	539	1.000
Small	Treatment	Breeding Male	24	-	Small	Control	Breeding Female	4	18.1752	5.20	3.49536	539	0.578
Small	Treatment	Breeding Male	24	-	Small	Control	Breeding Male	-0.1	9.1752	5.20	1.76452	539	1.000
Small	Treatment	Breeding Male	24	-	Small	Control	Breeding Male	0.1	2.5918	5.20	0.49845	539	1.000
Small	Treatment	Breeding Male	24	-	Small	Control	Breeding Male	24	7.8418	5.20	1.50810	539	1.000
Small	Treatment	Breeding Male	24	-	Small	Control	Breeding Male	4	9.3418	5.20	1.79658	539	1.000
Small	Treatment	Breeding Male	24	-	Small	Control	Helpers	-0.1	23.0780	5.20	4.43823	539	0.012
Small	Treatment	Breeding Male	24	-	Small	Control	Helpers	0.1	25.5710	5.20	4.91768	539	0.001
Small	Treatment	Breeding Male	24	-	Small	Control	Helpers	24	23.6405	5.20	4.54641	539	0.008
Small	Treatment	Breeding Male	24	-	Small	Control	Helpers	4	23.2655	5.20	4.47429	539	0.011
Small	Treatment	Breeding Male	24	-	Small	Treatment	Breeding Female	-0.1	19.5815	5.19	3.77022	551	0.204
Small	Treatment	Breeding Male	24	-	Small	Treatment	Breeding Female	0.1	31.3333	5.19	6.03615	549	<.001
Small	Treatment	Breeding Male	24	-	Small	Treatment	Breeding Female	4	24.0833	5.19	4.63949	549	0.005
Small	Treatment	Breeding Male	24	-	Small	Treatment	Breeding Male	-0.1	13.1649	5.19	2.53476	551	1.000
Small	Treatment	Breeding Male	24	-	Small	Treatment	Breeding Male	0.1	-20.7500	5.19	-3.99734	549	0.082
Small	Treatment	Breeding Male	24	-	Small	Treatment	Breeding Male	4	2.1667	5.19	0.41739	549	1.000
Small	Treatment	Breeding Male	24	-	Small	Treatment	Helpers	-0.1	22.1857	5.19	4.27162	551	0.026
Small	Treatment	Breeding Male	24	-	Small	Treatment	Helpers	0.1	29.0417	5.19	5.59467	549	<.001
Small	Treatment	Breeding Male	24	-	Small	Treatment	Helpers	24	26.4167	5.19	5.08899	549	<.001
Small	Treatment	Breeding Male	24	-	Small	Treatment	Helpers	4	24.7292	5.19	4.76390	549	0.003
Small	Treatment	Breeding Male	4	-	Large	Control	Breeding Female	-0.1	12.3418	5.20	2.37352	539	1.000
Small	Treatment	Breeding Male	4	-	Large	Control	Breeding Female	0.1	7.3418	5.20	1.41195	539	1.000
Small	Treatment	Breeding Male	4	-	Large	Control	Breeding Male	-0.1	9.2585	5.20	1.78055	539	1.000
Small	Treatment	Breeding Male	4	-	Large	Control	Breeding Male	0.1	8.0918	5.20	1.55618	539	1.000
Small	Treatment	Breeding Male	4	-	Large	Control	Breeding Male	4	11.7585	5.20	2.26134	539	1.000

Group			Time		rison Group			Time		_			
Size	Treatment	Subject	Point		Size	Treatment	Subject	Point	Difference	SE	t	df	Pbonferror
Small	Treatment	Breeding Male	4	-	Large	Control	Helpers	-0.1	19.8630	5.20	3.81994	539	0.168
Small	Treatment	Breeding Male	4	-	Large	Control	Helpers	0.1	20.8472	5.20	4.00923	539	0.078
Small	Treatment	Breeding Male	4	-	Large	Control	Helpers	4	19.6070	5.20	3.77072	539	0.204
Small	Treatment	Breeding Male	4	-	Large	Treatment	Breeding Female	-0.1	8.5162	4.87	1.74878	544	1.000
Small	Treatment	Breeding Male	4	-	Large	Treatment	Breeding Female	0.1	8.7649	4.87	1.79958	543	1.000
Small	Treatment	Breeding Male	4	-	Large	Treatment	Breeding Male	-0.1	2.9537	4.87	0.60654	544	1.000
Small	Treatment	Breeding Male	4	-	Large	Treatment	Breeding Male	0.1	-0.4851	4.87	-0.09960	543	1.000
Small	Treatment	Breeding Male	4	-	Large	Treatment	Breeding Male	4	-20.7351	4.87	-4.25725	543	0.028
Small	Treatment	Breeding Male	4	-	Large	Treatment	Helpers	-0.1	20.8935	4.87	4.29039	544	0.024
Small	Treatment	Breeding Male	4	-	Large	Treatment	Helpers	0.1	21.3906	4.87	4.39184	543	0.015
Small	Treatment	Breeding Male	4	-	Large	Treatment	Helpers	4	21.9018	4.87	4.49679	543	0.010
Small	Treatment	Breeding Male	4	-	Small	Control	Breeding Female	-0.1	16.8418	5.20	3.23894	539	1.000
Small	Treatment	Breeding Male	4	-	Small	Control	Breeding Female	0.1	14.1752	5.20	2.72610	539	1.000
Small	Treatment	Breeding Male	4	-	Small	Control	Breeding Male	-0.1	7.0085	5.20	1.34784	539	1.000
Small	Treatment	Breeding Male	4	-	Small	Control	Breeding Male	0.1	0.4252	5.20	0.08177	539	1.000
Small	Treatment	Breeding Male	4	-	Small	Control	Breeding Male	4	7.1752	5.20	1.37989	539	1.000
Small	Treatment	Breeding Male	4	-	Small	Control	Helpers	-0.1	20.9113	5.20	4.02155	539	0.075
Small	Treatment	Breeding Male	4	-	Small	Control	Helpers	0.1	23.4043	5.20	4.50100	539	0.009
Small	Treatment	Breeding Male	4	-	Small	Control	Helpers	4	21.0988	5.20	4.05761	539	0.064
Small	Treatment	Breeding Male	4	-	Small	Treatment	Breeding Female	-0.1	17.4149	5.19	3.35305	551	0.964
Small	Treatment	Breeding Male	4	-	Small	Treatment	Breeding Female	0.1	29.1667	5.19	5.61875	549	<.001
Small	Treatment	Breeding Male	4	-	Small	Treatment	Breeding Male	-0.1	10.9982	5.19	2.11759	551	1.000
Small	Treatment	Breeding Male	4	-	Small	Treatment	Breeding Male	0.1	-22.9167	5.19	-4.41474	549	0.014
Small	Treatment	Breeding Male	4	-	Small	Treatment	Helpers	-0.1	20.0190	5.19	3.85445	551	0.146
Small	Treatment	Breeding Male	4	-	Small	Treatment	Helpers	0.1	26.8750	5.19	5.17728	549	<.001
Small	Treatment	Breeding Male	4	-	Small	Treatment	Helpers	4	22.5625	5.19	4.34651	549	0.019
Small	Treatment	Helpers	-0.1	-	Large	Control	Helpers	-0.1	-0.1561	5.20	-0.03001	539	1.000
Small	Treatment	Helpers	-0.1	-	Large	Treatment	Helpers	-0.1	0.8744	4.87	0.17940	543	1.000
Small	Treatment	Helpers	-0.1	-	Small	Control	Helpers	-0.1	0.8922	5.20	0.17156	539	1.000
Small	Treatment	Helpers	0.1	-	Large	Control	Breeding Female	-0.1	-14.5332	5.20	-2.79494	539	1.000
Small	Treatment	Helpers	0.1	-	Large	Control	Breeding Male	-0.1	-17.6165	5.20	-3.38791	539	0.852
Small	Treatment	Helpers	0.1	-	Large	Control	Helpers	-0.1	-7.0120	5.20	-1.34852	539	1.000
Small	Treatment	Helpers	0.1	-	Large	Control	Helpers	0.1	-6.0278	5.20	-1.15923	539	1.000
Small	Treatment	Helpers	0.1	-	Large	Treatment	Breeding Female	-0.1	-18.3588	4.87	-3.76990	544	0.204
Small	Treatment	Helpers	0.1	-	Large	Treatment	Breeding Male	-0.1	-23.9213	4.87	-4.91213	544	0.001
Small	Treatment	Helpers	0.1	-	Large	Treatment	Helpers	-0.1	-5.9815	4.87	-1.22828	544	1.000
Small	Treatment	Helpers	0.1	-	Large	Treatment	Helpers	0.1	-5.4844	4.87	-1.12603	543	1.000

Group SizeTreatmentSmall <t< th=""><th>tment tment tment tment tment tment tment tment tment tment tment tment tment tment</th><th>Subject Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers</th><th>Time Point 0.1 0.1 0.1 0.1 0.1 0.1 0.1 24 24 24 24 24 24 24 24 24 24 24 24 24</th><th></th><th>Group Size Small Small Small Small Small Small Large Large Large</th><th>Treatment Control Control Control Treatment Treatment Control Control Control</th><th>Subject Breeding Female Breeding Male Helpers Breeding Female Breeding Female Breeding Female Breeding Female Breeding Female Breeding Female</th><th>Time Point -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1</th><th>Difference -10.0332 -19.8665 -5.9637 -3.4707 -9.4601 -15.8768 -6.8560 -11.9082 -16.9082 -13.1582</th><th>SE 5.20 5.20 5.20 5.19 5.19 5.19 5.20 5.20</th><th>t -1.92952 -3.82062 -1.14691 -0.66746 -1.82144 -3.05691 -1.32004 -2.29011 -3.25169 -2.53051</th><th>df 539 539 539 551 551 551 539 539 539</th><th>Pbonferroni 1.000 0.168 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000</th></t<>	tment tment tment tment tment tment tment tment tment tment tment tment tment tment	Subject Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers	Time Point 0.1 0.1 0.1 0.1 0.1 0.1 0.1 24 24 24 24 24 24 24 24 24 24 24 24 24		Group Size Small Small Small Small Small Small Large Large Large	Treatment Control Control Control Treatment Treatment Control Control Control	Subject Breeding Female Breeding Male Helpers Breeding Female Breeding Female Breeding Female Breeding Female Breeding Female Breeding Female	Time Point -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1	Difference -10.0332 -19.8665 -5.9637 -3.4707 -9.4601 -15.8768 -6.8560 -11.9082 -16.9082 -13.1582	SE 5.20 5.20 5.20 5.19 5.19 5.19 5.20 5.20	t -1.92952 -3.82062 -1.14691 -0.66746 -1.82144 -3.05691 -1.32004 -2.29011 -3.25169 -2.53051	df 539 539 539 551 551 551 539 539 539	Pbonferroni 1.000 0.168 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
SmallTreatm	tment tment tment tment tment tment tment tment tment tment tment tment tment	Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers	0.1 0.1 0.1 0.1 24 24 24 24 24 24 24 24 24	- - - - -	Small Small Small Small Small Large Large	Control Control Treatment Treatment Control Control Control	Female Breeding Male Helpers Breeding Female Breeding Male Helpers Breeding Female Breeding Female Breeding Female	-0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 0.1	-19.8665 -5.9637 -3.4707 -9.4601 -15.8768 -6.8560 -11.9082 -16.9082	5.20 5.20 5.19 5.19 5.19 5.20 5.20	-3.82062 -1.14691 -0.66746 -1.82144 -3.05691 -1.32004 -2.29011 -3.25169	539 539 551 551 551 539 539	0.168 1.000 1.000 1.000 1.000 1.000 1.000
SmallTreatmSmallTr	tment tment tment tment tment tment tment tment tment tment tment tment tment	Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers	0.1 0.1 0.1 24 24 24 24 24 24 24 24 24	- - - -	Small Small Small Small Large Large	Control Control Treatment Treatment Control Control Control	Male Helpers Helpers Breeding Female Breeding Female Breeding Female Breeding Female Breeding Female	-0.1 0.1 -0.1 -0.1 -0.1 -0.1 0.1	-5.9637 -3.4707 -9.4601 -15.8768 -6.8560 -11.9082 -16.9082	5.20 5.20 5.19 5.19 5.19 5.20 5.20	-1.14691 -0.66746 -1.82144 -3.05691 -1.32004 -2.29011 -3.25169	539 539 551 551 551 539 539	1.000 1.000 1.000 1.000 1.000 1.000
SmallTreatmSmallTr	tment tment tment tment tment tment tment tment tment tment tment tment	Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers	0.1 0.1 0.1 24 24 24 24 24 24 24 24 24	- - - -	Small Small Small Large Large	Control Treatment Treatment Control Control Control	Helpers Breeding Female Breeding Helpers Breeding Female Breeding Female Breeding Female	0.1 -0.1 -0.1 -0.1 -0.1 0.1	-3.4707 -9.4601 -15.8768 -6.8560 -11.9082 -16.9082	5.20 5.19 5.19 5.19 5.20 5.20	-0.66746 -1.82144 -3.05691 -1.32004 -2.29011 -3.25169	539 551 551 551 539 539	1.000 1.000 1.000 1.000 1.000
SmallTreatmSmallTr	tment tment tment tment tment tment tment tment tment tment tment	Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers	0.1 0.1 24 24 24 24 24 24 24 24 24	- - - -	Small Small Small Large Large	Treatment Treatment Control Control Control	Breeding Male Helpers Breeding Female Breeding Female Breeding Female Breeding Female	-0.1 -0.1 -0.1 -0.1 0.1	-9.4601 -15.8768 -6.8560 -11.9082 -16.9082	5.19 5.19 5.19 5.20 5.20	-1.82144 -3.05691 -1.32004 -2.29011 -3.25169	551 551 539 539	1.000 1.000 1.000 1.000 1.000
SmallTreatm	tment tment tment tment tment tment tment tment tment tment	Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers	0.1 0.1 24 24 24 24 24 24 24 24	- - - -	Small Small Large Large Large	Treatment Treatment Control Control Control	Female Breeding Male Helpers Breeding Female Breeding Female Breeding Female	-0.1 -0.1 -0.1 0.1	-15.8768 -6.8560 -11.9082 -16.9082	5.19 5.19 5.20 5.20	-3.05691 -1.32004 -2.29011 -3.25169	551 551 539 539	1.000 1.000 1.000 1.000
SmallTreatm	tment tment tment tment tment tment tment tment tment	Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers	0.1 24 24 24 24 24 24 24 24		Small Large Large Large	Treatment Control Control Control	Male Helpers Breeding Female Breeding Female Breeding Female	-0.1 -0.1 0.1	-6.8560 -11.9082 -16.9082	5.19 5.20 5.20	-1.32004 -2.29011 -3.25169	551 539 539	1.000 1.000 1.000
SmallTreatm	tment tment tment tment tment tment tment tment	Helpers Helpers Helpers Helpers Helpers Helpers Helpers Helpers	24 24 24 24 24 24 24 24		Large Large Large	Control Control Control	Breeding Female Breeding Female Breeding Female	-0.1 0.1	-11.9082 -16.9082	5.20 5.20	-2.29011 -3.25169	539 539	1.000 1.000
SmallTreatm	tment tment tment tment tment tment tment tment	Helpers Helpers Helpers Helpers Helpers Helpers Helpers	24 24 24 24 24 24 24	-	Large Large	Control Control	Female Breeding Female Breeding Female	0.1	-16.9082	5.20	-3.25169	539	1.000
SmallTreatmentSmallTreatme	tment tment tment tment tment tment tment	Helpers Helpers Helpers Helpers Helpers Helpers	24 24 24 24 24	-	Large	Control	Female Breeding Female						
SmallTreatmentSmallTreatme	tment tment tment tment tment tment	Helpers Helpers Helpers Helpers Helpers Helpers	24 24 24 24	-	-		Female	4	-13.1582	E 00	-2.53051	539	1 000
SmallTreatm	tment tment tment tment tment tment	Helpers Helpers Helpers Helpers Helpers	24 24 24	-	Large	Control	Breedina			5.20			1.000
SmallTreatm	tment tment tment tment tment	Helpers Helpers Helpers Helpers	24 24				Male	-0.1	-14.9915	5.20	-2.88308	539	1.000
SmallTreatm	tment tment tment tment	Helpers Helpers Helpers	24	-	Large	Control	Breeding Male	0.1	-16.1582	5.20	-3.10745	539	1.000
Small Treatm Small Treatm	tment tment tment	Helpers Helpers			Large	Control	Breeding Male	4	-12.4915	5.20	-2.40230	539	1.000
Small Treatm Small Treatm	tment tment	Helpers	24	-	Large	Control	Helpers	-0.1	-4.3870	5.20	-0.84369	539	1.000
SmallTreatm	tment			-	Large	Control	Helpers	0.1	-3.4028	5.20	-0.65441	539	1.000
Small Treatm Small Treatm		Helpers	24	-	Large	Control	Helpers	24	-4.5635	5.20	-0.87763	539	1.000
Small Treatm Small Treatm	uneni	Helpers	24 24	-	Large	Control Treatment	Helpers Breeding	4 -0.1	-4.6430 -15.7338	5.20 4.87	-0.89291 -3.23086	539 544	1.000 1.000
Small Treatm Small Treatm	ment	Helpers	24	-	Large Large	Treatment	Female Breeding	0.1	-15.4851	4.87	-3.17934	543	1.000
Small Treatm Small Treatm		Helpers	24	_	Large	Treatment	Female Breeding	4	0.3274	4.87	0.06722	543	1.000
Small Treatm Small Treatm		Helpers	24	_	Large	Treatment	Female Breeding	-0.1	-21.2963	4.87	-4.37310	544	0.017
Small Treatm Small Treatm Small Treatm Small Treatm Small Treatm Small Treatm Small Treatm Small Treatm Small Treatm Small Treatm		Helpers	24	_	Large	Treatment	Male Breeding	0.1	-24.7351	4.87	-5.07851	543	<.001
Small Treatn Small Treatn Small Treatn Small Treatn Small Treatn Small Treatn Small Treatn Small Treatn Small Treatn Small Treatn		Helpers	24	_	Large	Treatment	Male Breeding	4	-44.9851	4.87	-9.23616	543	<.001
Small Treatn Small Treatn Small Treatn Small Treatn Small Treatn Small Treatn Small Treatn Small Treatn				-			Male						
Small Treatn Small Treatn Small Treatn Small Treatn Small Treatn Small Treatn Small Treatn		Helpers	24	-	Large	Treatment	Helpers	-0.1	-3.3565	4.87	-0.68925	544	1.000
Small Treatn Small Treatn Small Treatn Small Treatn Small Treatn Small Treatn		Helpers	24	-	Large	Treatment	Helpers	0.1	-2.8594	4.87	-0.58707	543	1.000
Small Treatn Small Treatn Small Treatn Small Treatn Small Treatn		Helpers	24	-	Large	Treatment	Helpers	24	-1.2637	4.87	-0.25947	543	1.000
Small Treatn Small Treatn Small Treatn Small Treatn	tment	Helpers	24	-	Large	Treatment	Helpers	4	-2.3482	4.87	-0.48212	543	1.000
Small Treatn Small Treatn Small Treatn	tment	Helpers	24	-	Small	Control	Breeding Female	-0.1	-7.4082	5.20	-1.42470	539	1.000
Small Treatn Small Treatn	tment	Helpers	24	-	Small	Control	Breeding Female	0.1	-10.0748	5.20	-1.93754	539	1.000
Small Treatn	tment	Helpers	24	-	Small	Control	Breeding Female	4	-8.2415	5.20	-1.58496	539	1.000
	tment	Helpers	24	-	Small	Control	Breeding Male	-0.1	-17.2415	5.20	-3.31579	539	1.000
Small Troate	tment	Helpers	24	-	Small	Control	Breeding Male	0.1	-23.8248	5.20	-4.58187	539	0.006
	tment	Helpers	24	-	Small	Control	Breeding Male	4	-17.0748	5.20	-3.28374	539	1.000
Small Treatm		Helpers	24	-	Small	Control	Helpers	-0.1	-3.3387	5.20	-0.64208	539	1.000
Small Treatm		Helpers	24	-	Small	Control	Helpers	0.1	-0.8457	5.20	-0.16263	539	1.000
Small Treatm		Helpers	24	-	Small	Control	Helpers	24	-2.7762	5.20	-0.53391	539	1.000
Small Treatn Small Treatn		Helpers Helpers	24 24	-	Small Small	Control Treatment	Helpers Breeding	4 -0.1	-3.1512 -6.8351	5.20 5.19	-0.60602 -1.31603	539 551	1.000 1.000
Small Treatm		Helpers	24	-	Small	Treatment	Female Breeding	0.1	4.9167	5.19	0.94716	549	1.000
Small Treatm		Helpers	24	-	Small	Treatment	Female Breeding	4	-2.3333	5.19	-0.44950	549	1.000
Small Treatm	tment	Helpers	24	_	Small	Treatment	Female Breeding Male	-0.1	-13.2518	5.19	-2.55149	551	1.000

			Cor	npa	rison								
Group Size	Treatment	Subject	Time Point		Group Size	Treatment	Subject	Time Point	Difference	SE	t	df	Pbonferroni
Small	Treatment	Helpers	24	-	Small	Treatment	Breeding Male	0.1	-47.1667	5.19	-9.08633	549	<.001
Small	Treatment	Helpers	24	-	Small	Treatment	Breeding Male	4	-24.2500	5.19	-4.67159	549	0.004
Small	Treatment	Helpers	24	-	Small	Treatment	Helpers	-0.1	-4.2310	5.19	-0.81462	551	1.000
Small	Treatment	Helpers	24	-	Small	Treatment	Helpers	0.1	2.6250	5.19	0.50569	549	1.000
Small	Treatment	Helpers	24	-	Small	Treatment	Helpers	4	-1.6875	5.19	-0.32509	549	1.000
Small	Treatment	Helpers	4	-	Large	Control	Breeding Female	-0.1	-10.2207	5.20	-1.96558	539	1.000
Small	Treatment	Helpers	4	-	Large	Control	Breeding Female	0.1	-15.2207	5.20	-2.92716	539	1.000
Small	Treatment	Helpers	4	-	Large	Control	Breeding Male	-0.1	-13.3040	5.20	-2.55855	539	1.000
Small	Treatment	Helpers	4	-	Large	Control	Breeding Male	0.1	-14.4707	5.20	-2.78292	539	1.000
Small	Treatment	Helpers	4	-	Large	Control	Helpers	-0.1	-2.6995	5.20	-0.51916	539	1.000
Small	Treatment	Helpers	4	-	Large	Control	Helpers	0.1	-1.7153	5.20	-0.32988	539	1.000
Small	Treatment	Helpers	4	-	Large	Control	Helpers	4	-2.9555	5.20	-0.56838	539	1.000
Small	Treatment	Helpers	4	-	Large	Treatment	Breeding Female	-0.1	-14.0463	4.87	-2.88434	544	1.000
Small	Treatment	Helpers	4	-	Large	Treatment	Breeding Female	0.1	-13.7976	4.87	-2.83287	543	1.000
Small	Treatment	Helpers	4	-	Large	Treatment	Breeding Male	-0.1	-19.6088	4.87	-4.02658	544	0.073
Small	Treatment	Helpers	4	-	Large	Treatment	Breeding Male	0.1	-23.0476	4.87	-4.73204	543	0.003
Small	Treatment	Helpers	4	-	Large	Treatment	Helpers	-0.1	-1.6690	4.87	-0.34273	544	1.000
Small	Treatment	Helpers	4	-	Large	Treatment	Helpers	0.1	-1.1719	4.87	-0.24060	543	1.000
Small	Treatment	Helpers	4	-	Large	Treatment	Helpers	4	-0.6607	4.87	-0.13565	543	1.000
Small	Treatment	Helpers	4	-	Small	Control	Breeding Female	-0.1	-5.7207	5.20	-1.10017	539	1.000
Small	Treatment	Helpers	4	-	Small	Control	Breeding Female	0.1	-8.3873	5.20	-1.61301	539	1.000
Small	Treatment	Helpers	4	-	Small	Control	Breeding Male	-0.1	-15.5540	5.20	-2.99126	539	1.000
Small	Treatment	Helpers	4	-	Small	Control	Breeding Male	0.1	-22.1373	5.20	-4.25733	539	0.028
Small	Treatment	Helpers	4	-	Small	Control	Helpers	-0.1	-1.6512	5.20	-0.31755	539	1.000
Small	Treatment	Helpers	4	-	Small	Control	Helpers	0.1	0.8418	5.20	0.16190	539	1.000
Small	Treatment	Helpers	4	-	Small	Control	Helpers	4	-1.4637	5.20	-0.28149	539	1.000
Small	Treatment	Helpers	4	-	Small	Treatment	Breeding Female	-0.1	-5.1476	5.19	-0.99112	551	1.000
Small	Treatment	Helpers	4	-	Small	Treatment	Breeding Female	0.1	6.6042	5.19	1.27225	549	1.000
Small	Treatment	Helpers	4	-	Small	Treatment	Breeding Male	-0.1	-11.5643	5.19	-2.22658	551	1.000
Small	Treatment	Helpers	4	-	Small	Treatment	Breeding Male	0.1	-45.4792	5.19	-8.76124	549	<.001
Small	Treatment	Helpers	4	-	Small	Treatment	Helpers	-0.1	-2.5435	5.19	-0.48971	551	1.000
Small	Treatment	Helpers	4	-	Small	Treatment	Helpers	0.1	4.3125	5.19	0.83077	549	1.000

Table S2. Post-hoc Comparisons for Affiliation Index Analysis- Treatment × Group Size ×Timepoint

		Com	npa	rison							
Group Size	Treatment	Time Point	_	Group Size	Treatment	Time Point	Difference	SE	t	df	Pbonferroni
Large	Control	0.1	-	Large	Control	-0.1	-0.05066	0.0385	-1.3144	579.0	1.000
Large	Control	0.1	-	Large	Treatment	-0.1	-0.00903	0.0471	-0.1918	68.4	1.000
Large	Control	0.1	-	Small	Control	-0.1	-0.05228	0.0504	-1.0380	68.4	1.000
Large	Control	0.1	-	Small	Treatment	-0.1	-0.11253	0.0504	-2.2344	68.4	1.000
Large	Control	24	-	Large	Control	-0.1	-0.02452	0.0385	-0.6362	579.0	1.000
Large	Control	24	-	Large	Control	0.1	0.02614	0.0385	0.6781	579.0	1.000
Large	Control	24	-	Large	Control	4	-0.02786	0.0385	-0.7227	579.0	1.000
Large	Control	24	-	Large	Treatment	-0.1	0.01710	0.0471	0.3631	68.4	1.000
Large	Control	24	-	Large	Treatment	0.1	-0.11565	0.0471	-2.4548	68.4	1.000
Large	Control	24	-	Large	Treatment	4	-0.09375	0.0471	-1.9900	68.4	1.000
Large	Control	24	-	Small	Control	-0.1	-0.02614	0.0504	-0.5189	68.4	1.000
Large	Control	24	-	Small	Control	0.1	-0.04477	0.0504	-0.8890	68.4	1.000
Large	Control	24	-	Small	Control	4	-0.07661	0.0504	-1.5211	68.4	1.000
Large	Control	24	-	Small	Treatment	-0.1	-0.08639	0.0504	-1.7154	68.4	1.000
Large	Control	24	-	Small	Treatment	0.1	0.02998	0.0504	0.5952	68.4	1.000
Large	Control	24	-	Small	Treatment	4	-0.07475	0.0504	-1.4842	68.4	1.000
Large	Control	4	-	Large	Control	-0.1	0.00333	0.0385	0.0865	579.0	1.000
Large	Control	4	-	Large	Control	0.1	0.05400	0.0385	1.4009	579.0	1.000
Large	Control	4	-	Large	Treatment	-0.1	0.04496	0.0471	0.9544	68.4	1.000
Large	Control	4	-	Large	Treatment	0.1	-0.08779	0.0471	-1.8634	68.4	1.000
Large	Control	4	-	Small	Control	-0.1	0.00172	0.0504	0.0342	68.4	1.000
Large	Control	4	-	Small	Control	0.1	-0.01691	0.0504	-0.3358	68.4	1.000
Large	Control	4	-	Small	Treatment	-0.1	-0.05853	0.0504	-1.1622	68.4	1.000
Large	Control	4	-	Small	Treatment	0.1	0.05784	0.0504	1.1484	68.4	1.000
Large	Treatment	-0.1	-	Large	Control	-0.1	-0.04163	0.0471	-0.8837	68.4	1.000
Large	Treatment	-0.1	-	Small	Control	-0.1	-0.04324	0.0471	-0.9178	68.4	1.000
Large	Treatment	0.1	-	Large	Control	-0.1	0.09112	0.0471	1.9342	68.4	1.000
Large	Treatment	0.1	-	Large	Control	0.1	0.14179	0.0471	3.0096	68.4	0.439
Large	Treatment	0.1	-	Large	Treatment	-0.1	0.13275	0.0334	3.9767	579.0	0.009
Large	Treatment	0.1	-	Small	Control	-0.1	0.08951	0.0471	1.9000	68.4	1.000
Large	Treatment	0.1	-	Small	Control	0.1	0.07087	0.0471	1.5044	68.4	1.000
Large	Treatment	0.1	-	Small	Treatment	-0.1	0.02925	0.0471	0.6210	68.4	1.000
Large	Treatment	24	-	Large	Control	-0.1	0.06344	0.0471	1.3466	68.4	1.000
Large	Treatment	24	-	Large	Control	0.1	0.11411	0.0471	2.4221	68.4	1.000
Large	Treatment	24	-	Large	Control	24	0.08797	0.0471	1.8672	68.4	1.000
Large	Treatment	24	-	Large	Control	4	0.06011	0.0471	1.2759	68.4	1.000
Large	Treatment	24	-	Large	Treatment	-0.1	0.10507	0.0334	3.1475	579.0	0.208
Large	Treatment	24	-	Large	Treatment	0.1	-0.02768	0.0334	-0.8292	579.0	1.000
Large	Treatment	24	-	Large	Treatment	4	-0.00579	0.0334	-0.1733	579.0	1.000
Large	Treatment	24	-	Small	Control	-0.1	0.06183	0.0471	1.3124	68.4	1.000
Large	Treatment	24	-	Small	Control	0.1	0.04319	0.0471	0.9168	68.4	1.000
Large	Treatment	24	-	Small	Control	24	0.03498	0.0471	0.7425	68.4	1.000
Large	Treatment	24	-	Small	Control	4	0.01136	0.0471	0.2411	68.4	1.000
Large	Treatment	24	-	Small	Treatment	-0.1	0.00157	0.0471	0.0334	68.4	1.000
Large	Treatment	24	-	Small	Treatment	0.1	0.11794	0.0471	2.5035	68.4	1.000
Large	Treatment	24	-	Small	Treatment	4	0.01322	0.0471	0.2805	68.4	1.000
Large	Treatment	4	-	Large	Control	-0.1	0.06923	0.0471	1.4694	68.4	1.000
Large	Treatment	4	-	Large	Control	0.1	0.11989	0.0471	2.5449	68.4	1.000
Large	Treatment	4	-	Large	Control	4	0.06589	0.0471	1.3987	68.4	1.000
Large	Treatment	4	-	Large	Treatment	-0.1	0.11086	0.0334	3.3208	579.0	0.114
Large	Treatment	4	-	Large	Treatment	0.1	-0.02190	0.0334	-0.6559	579.0	1.000
Large	Treatment	4	-	Small	Control	-0.1	0.06762	0.0471	1.4352	68.4	1.000

		Com	npai	rison			_				
Group Size	Treatment	Time Point		Group Size	Treatment	Time Point	Difference	SE	t	df	Pbonferroni
Large	Treatment	4	-	Small	Control	0.1	0.04898	0.0471	1.0396	68.4	1.000
Large	Treatment	4	-	Small	Control	4	0.01714	0.0471	0.3639	68.4	1.000
Large	Treatment	4	-	Small	Treatment	-0.1	0.00736	0.0471	0.1562	68.4	1.000
Large	Treatment	4	-	Small	Treatment	0.1	0.12373	0.0471	2.6263	68.4	1.000
Small	Control	-0.1	-	Large	Control	-0.1	0.00161	0.0504	0.0320	68.4	1.000
Small	Control	0.1	-	Large	Control	-0.1	0.02025	0.0504	0.4020	68.4	1.000
Small	Control	0.1	-	Large	Control	0.1	0.07091	0.0504	1.4080	68.4	1.000
Small	Control	0.1	-	Large	Treatment	-0.1	0.06188	0.0471	1.3134	68.4	1.000
Small	Control	0.1	-	Small	Control	-0.1	0.01864	0.0385	0.4835	579.0	1.000
Small	Control	0.1	-	Small	Treatment	-0.1	-0.04162	0.0504	-0.8264	68.4	1.000
Small	Control	24	-	Large	Control	-0.1	0.02846	0.0504	0.5651	68.4	1.000
Small	Control	24	-	Large	Control	0.1	0.07912	0.0504	1.5711	68.4	1.000
Small	Control	24	-	Large	Control	24	0.05298	0.0504	1.0520	68.4	1.000
Small	Control	24	-	Large	Control	4	0.02513	0.0504	0.4989	68.4	1.000
Small	Control	24	-	Large	Treatment	-0.1	0.07009	0.0471	1.4878	68.4	1.000
Small	Control	24	-	Large	Treatment	0.1	-0.06266	0.0471	-1.3301	68.4	1.000
Small	Control	24	-	Large	Treatment	4	-0.04077	0.0471	-0.8653	68.4	1.000
Small	Control	24	-	Small	Control	-0.1	0.02685	0.0385	0.6965	579.0	1.000
Small	Control	24	-	Small	Control	0.1	0.00821	0.0385	0.2130	579.0	1.000
Small	Control	24	-	Small	Control	4	-0.02362	0.0385	-0.6129	579.0	1.000
Small	Control	24	-	Small	Treatment	-0.1	-0.03341	0.0504	-0.6633	68.4	1.000
Small	Control	24	-	Small	Treatment	0.1	0.08296	0.0504	1.6473	68.4	1.000
Small	Control	24	-	Small	Treatment	4	-0.02177	0.0504	-0.4322	68.4	1.000
Small	Control	4	-	Large	Control	-0.1	0.05209	0.0504	1.0342	68.4	1.000
Small	Control	4	-	Large	Control	0.1	0.10275	0.0504	2.0401	68.4	1.000
Small	Control	4	-	Large	Control	4	0.04875	0.0504	0.9680	68.4	1.000
Small	Control	4	-	Large	Treatment	-0.1	0.09371	0.0471	1.9892	68.4	1.000
Small	Control	4	-	Large	Treatment	0.1	-0.03904	0.0471	-0.8286	68.4	1.000
Small	Control	4	-	Small	Control	-0.1	0.05047	0.0385	1.3094	579.0	1.000
Small	Control	4	-	Small	Control	0.1	0.03184	0.0385	0.8259	579.0	1.000
Small	Control	4	-	Small	Treatment	-0.1	-0.00978	0.0504	-0.1942	68.4	1.000
Small	Control	4	-	Small	Treatment	0.1	0.10659	0.0504	2.1164	68.4	1.000
Small	Treatment	-0.1	-	Large	Control	-0.1	0.06187	0.0504	1.2284	68.4	1.000
Small	Treatment	-0.1	-	Large	Treatment	-0.1	0.10350	0.0471	2.1969	68.4	1.000
Small	Treatment	-0.1	-	Small	Control	-0.1	0.06026	0.0504	1.1964	68.4	1.000
Small	Treatment	0.1	-	Large	Control	-0.1	-0.05450	0.0504	-1.0822	68.4	1.000
Small	Treatment	0.1	-	Large	Control	0.1	-0.00384	0.0504	-0.0762	68.4	1.000
Small	Treatment	0.1	-	Large	Treatment	-0.1	-0.01287	0.0471	-0.2732	68.4	1.000
Small	Treatment	0.1	-	Large	Treatment	0.1	-0.14562	0.0471	-3.0911	68.4	0.346
Small	Treatment	0.1	-	Small	Control	-0.1	-0.05611	0.0504	-1.1142	68.4	1.000
Small	Treatment	0.1	-	Small	Control	0.1	-0.07475	0.0504	-1.4842	68.4	1.000
Small	Treatment	0.1	-	Small	Treatment	-0.1	-0.11637	0.0385	-3.0190	579.0	0.318
Small	Treatment	24	-	Large	Control	-0.1	0.07404	0.0504	1.4701	68.4	1.000
Small	Treatment	24	-	Large	Control	0.1	0.12470	0.0504	2.4761	68.4	1.000
Small	Treatment	24	-	Large	Control	24	0.09856	0.0504	1.9571	68.4	1.000
Small	Treatment	24	-	Large	Control	4	0.07071	0.0504	1.4039	68.4	1.000
Small	Treatment	24	-	Large	Treatment	-0.1	0.11567	0.0471	2.4553	68.4	1.000
Small	Treatment	24	-	Large	Treatment	0.1	-0.01708	0.0471	-0.3626	68.4	1.000
Small	Treatment	24	-	Large	Treatment	24	0.01060	0.0471	0.2250	68.4	1.000
Small	Treatment	24	-	Large	Treatment	4	0.00481	0.0471	0.1022	68.4	1.000
Small	Treatment	24	-	Small	Control	-0.1	0.07243	0.0504	1.4381	68.4	1.000
Small	Treatment	24	-	Small	Control	0.1	0.05379	0.0504	1.0681	68.4	1.000
Small	Treatment	24	-	Small	Control	24	0.04558	0.0504	0.9050	68.4	1.000
		-									

		Con	npa	rison							
Group Size	Treatment	Time Point		Group Size	Treatment	Time Point	Difference	SE	t	df	Pbonferroni
Small	Treatment	24	-	Small	Control	4	0.02196	0.0504	0.4359	68.4	1.000
Small	Treatment	24	-	Small	Treatment	-0.1	0.01217	0.0385	0.3158	579.0	1.000
Small	Treatment	24	-	Small	Treatment	0.1	0.12854	0.0385	3.3348	579.0	0.109
Small	Treatment	24	-	Small	Treatment	4	0.02381	0.0385	0.6178	579.0	1.000
Small	Treatment	4	-	Large	Control	-0.1	0.05023	0.0504	0.9973	68.4	1.000
Small	Treatment	4	-	Large	Control	0.1	0.10089	0.0504	2.0032	68.4	1.000
Small	Treatment	4	-	Large	Control	4	0.04689	0.0504	0.9311	68.4	1.000
Small	Treatment	4	-	Large	Treatment	-0.1	0.09185	0.0471	1.9498	68.4	1.000
Small	Treatment	4	-	Large	Treatment	0.1	-0.04090	0.0471	-0.8681	68.4	1.000
Small	Treatment	4	-	Large	Treatment	4	-0.01900	0.0471	-0.4033	68.4	1.000
Small	Treatment	4	-	Small	Control	-0.1	0.04861	0.0504	0.9653	68.4	1.000
Small	Treatment	4	-	Small	Control	0.1	0.02998	0.0504	0.5952	68.4	1.000
Small	Treatment	4	-	Small	Control	4	-0.00186	0.0504	-0.0369	68.4	1.000
Small	Treatment	4	-	Small	Treatment	-0.1	-0.01164	0.0385	-0.3020	579.0	1.000
Small	Treatment	4	-	Small	Treatment	0.1	0.10473	0.0385	2.7169	579.0	0.814

Table S3. Readme file. Behavioral data was collected in McMaster University's Animal Behaviour Ecology Laboratory (ABEL) from February 29, 2019 to March 2, 2020. Video recordings were scored from March 13, 2019 to June 6, 2019. Tissue samples were collected March 3, 2019 and assays were conducted from June 11, 2019 to June 20. All the data for this paper was analyzed from June 27, 2019 to September 16, 2019.

Labels	Factor Values	Meaning
Tank Number_n	1-2, 4-13, 15-16, 18-19, 22, 24-31, 34	Tank ID
Group Size	Small, Large	Binary categorization of group size, with groups either being Small (containing 4 or fewer Helper Fish) or Large (containing 5 or greater Helper Fish).
Treatment	Treatment, Control	Binary categorization of treatment type.
Subject	Breeding Male, Breeding Female, Helpers	Fish class, being Breeding Male (the dominant male of the group), Breeding Female (the dominant female of the group) or Helpers (all of the remaining fish, collectively).
Observation Type	Pre 1, Pre 2, Post 1, Post 2, 4 Hours Post 1, 4 Hours Post 2, 24 Hours Post 1, 24 Hours Post 2	The time step of the observation. The time steps listed are: Pre 1 (recording occurred immediately before the first social perturbation), Pre 2 (recording occurred immediately before the second social perturbation), Post 1 (recording occurred immediately after the first social perturbation), Post 2 (recording occurred immediately after the second social perturbation), 4 Hours Post 1 (recording occurred 4 hours following the first social perturbation), 4 Hours Post 2 (recording occurred 4 hours following the second social perturbation), 24 Hours Post 1 (recording occurred 24 hours following the first social perturbation) and 24 Hours Post 2 (recording occurred 24 hours following the second social perturbation) and 24 Hours Post 2 (recording occurred 24 hours following the second social perturbation).
Male_ID	A letter/integer combination	A unique combination of a letter and number that identifies each male. The

The dataset (Dataset 1) is contained in an Excel worksheet organized by columns. The column labels (variables of interest) and how this data was scored are as follows:

		number indicates the tank the male started
		in at the beginning of the experiment.
Helper #_n	Range: 1-8	The number of helpers within the group
		during experimental treatments.
Trial #_n	1, 2	The observation block, being either 1
		(associated with the first social
		perturbation) or 2 (associated with the
		second social perturbation).
Hours	-0.1, 0.1, 4, 24	The number of hours before or after the
		social perturbation the observation
		occurred, being -0.1 (immediately before
		the perturbation), 0.1 (immediately after the
		perturbation), 4 (4 hours after the
		perturbation) or 24 (24 hours after the
		perturbation).
Agg_direc	Continuous integer	Aggressive acts by the focal fish toward
		another subject, including both other fish in
		the social group and its own reflection. Was
		not used in the calculation of Dominance
		Index.
Agg_direc_nomirror	Continuous integer	Aggressive acts by the focal fish toward
		another fish. Excludes aggressive acts
		toward reflections. Was used in the
		calculation of Dominance Index.
Social_direc	Continuous integer	Affiliative acts performed by the focal fish to
		another fish.
Sub_direc	Continuous integer	Submissive acts by the focal fish toward
		another subject, including both other fish
		and reflections.
Agg_rec	Continuous integer	Aggressive acts received by the focal fish
		from another fish.
Social_rec	Continuous integer	Affiliative acts received by the focal fish
		from another fish.
Sub_rec	Continuous integer	Submissive acts received by the focal fish
		from another fish.
Self_Maintenance	Continuous integer	Personal maintenance behaviors performed
		by the fish, including the initiation of
		swimming, remaining still, yawning etc. Not
		used in any of the analysis.
Territorial Maintenance_n	Continuous integer	Behaviors performed by the focal fish in the
		maintenance of the group's territory.
Still Duration (s)	Continuous	The duration of time (in seconds) that the
		focal fish was still (no active locomotion).
		Does not include time when the fish was not
		visible to the observer. Was not recorded for

Swim Duration (s)	Continuous	The duration of time (in seconds) that the
		focal fish was actively swimming. Does not
		include time when the fish was not visible to
		the observer. Was not recorded for helpers.
Activity	Continuous	Calculated by dividing the total time the
		focal fish was observed swimming in an
		observation over the total time the fish was
		observed swimming or still:
		Swim Duration / (Swim Duration + Still
		Duration)
		Not relevant for helpers.
Dominance_Index	Continuous Integer	(Sum of aggressive acts given + sum of
		submissive acts received) – (sum of
		aggressive acts received + sum of submissive
		acts given) (Aubin-Horth et al., 2007)
		Does not include acts toward reflections.
Dominance per capita for	Continuous	Only relevant for helpers. The dominance
helpers		index divided by the number of helpers in
		the group.
Co-op per capita for helpers		Only relevant for helpers. The territorial
		maintenance actions divided by the number
		of helpers in the group.
Affiliation per capita for helpers		Only relevant for helpers. The affiliation
		index divided by the number of helpers in
		the group.