

When all males cheat post-copulatory competition limits worthless gift-giving frequency in spiders

Pavón-Peláez, C. M. Martínez Villar, V. Franco-Trecu, M.J. Albo

Field data

Year	Month	M.size	F.size	Gift.type	Prey	F.Egg.prop	Gifts	WG.prop	OSR
2015	1	4	3.5	NA	291	0	0	NA	0.58
2015	1	3.5	5	NA	291	0	0	NA	0.58
2015	1	4	5	NA	291	0	0	NA	0.58
2015	1	4	3.5	NA	291	0	0	NA	0.58
2015	1	4	5	NA	291	0	0	NA	0.58
2015	1	4.5	4	NA	291	0	0	NA	0.58
2015	1	5	5	NA	291	0	0	NA	0.58
2015	1	4.1	5	NA	291	0	0	NA	0.58
2015	1	4.5	4.5	NA	291	0	0	NA	0.58
2015	1	4.5	5	NA	291	0	0	NA	0.58
2015	1	3	5	NA	291	0	0	NA	0.58
2015	1	4	4	NA	291	0	0	NA	0.58
2015	1	4.5	NA	NA	291	0	0	NA	0.58
2015	1	4	NA	NA	291	0	0	NA	0.58
2015	1	5	NA	NA	291	0	0	NA	0.58
2015	1	4.5	NA	NA	291	0	0	NA	0.58
2015	1	4	NA	NA	291	0	0	NA	0.58
2015	2	4.8	3.5	NA	6	0.09	18	0.33	0.55
2015	2	3.1	3.2	NA	6	0.09	18	0.33	0.55
2015	2	4.2	5.9	NA	6	0.09	18	0.33	0.55
2015	2	5.4	5.9	NA	6	0.09	18	0.33	0.55
2015	2	4.4	4.8	NA	6	0.09	18	0.33	0.55
2015	2	5.8	4.4	NA	6	0.09	18	0.33	0.55
2015	2	4.4	4.4	NA	6	0.09	18	0.33	0.55
2015	2	3.8	4.1	NA	6	0.09	18	0.33	0.55
2015	2	4.5	4.5	NA	6	0.09	18	0.33	0.55
2015	2	4.4	5.9	NA	6	0.09	18	0.33	0.55
2015	2	3.8	3.8	NA	6	0.09	18	0.33	0.55
2015	2	3.7	4.4	NA	6	0.09	18	0.33	0.55
2015	2	4.7	4.9	NA	6	0.09	18	0.33	0.55
2015	2	4.8	3.2	NA	6	0.09	18	0.33	0.55
2015	2	4.2	3.8	NA	6	0.09	18	0.33	0.55
2015	2	4.8	4.6	NA	6	0.09	18	0.33	0.55
2015	2	4.6	4.3	NA	6	0.09	18	0.33	0.55
2015	2	5.9	4.6	NA	6	0.09	18	0.33	0.55
2015	2	3.6	5.9	NA	6	0.09	18	0.33	0.55
2015	2	3.6	4.6	0	6	0.09	18	0.33	0.55
2015	2	4.8	NA	0	6	0.09	18	0.33	0.55

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Year	Month	M.size	F.size	Gift.type	Prey	F.Egg.prop	Gifts	WG.prop	OSR
2015	2	4.4	NA	1	6	0.09	18	0.33	0.55
2015	2	4.5	NA	NA	6	0.09	18	0.33	0.55
2015	2	4.2	NA	1	6	0.09	18	0.33	0.55
2015	2	4.7	NA	1	6	0.09	18	0.33	0.55
2015	2	4.9	NA	0	6	0.09	18	0.33	0.55
2015	2	4.2	NA	0	6	0.09	18	0.33	0.55
2015	2	4.4	NA	1	6	0.09	18	0.33	0.55
2015	2	4.4	NA	0	6	0.09	18	0.33	0.55
2015	2	3.4	NA	0	6	0.09	18	0.33	0.55
2015	2	4.4	NA	1	6	0.09	18	0.33	0.55
2015	2	4.9	NA	0	6	0.09	18	0.33	0.55
2015	2	4.9	NA	0	6	0.09	18	0.33	0.55
2015	2	4.6	NA	1	6	0.09	18	0.33	0.55
2015	2	4.8	NA	0	6	0.09	18	0.33	0.55
2015	2	4.4	NA	0	6	0.09	18	0.33	0.55
2015	2	4.3	NA	0	6	0.09	18	0.33	0.55
2015	3	4.5	3.6	NA	3	0.61	10	0.8	0.65
2015	3	4.6	4.6	NA	3	0.61	10	0.8	0.65
2015	3	4.2	5.1	NA	3	0.61	10	0.8	0.65
2015	3	4.5	4.4	NA	3	0.61	10	0.8	0.65
2015	3	4.1	5	NA	3	0.61	10	0.8	0.65
2015	3	4.7	4.9	NA	3	0.61	10	0.8	0.65
2015	3	4.2	4.6	NA	3	0.61	10	0.8	0.65
2015	3	4.2	4.8	NA	3	0.61	10	0.8	0.65
2015	3	4.5	4.6	NA	3	0.61	10	0.8	0.65
2015	3	4.1	4.3	NA	3	0.61	10	0.8	0.65
2015	3	4.1	4.9	NA	3	0.61	10	0.8	0.65
2015	3	4.7	5	NA	3	0.61	10	0.8	0.65
2015	3	4.6	5.1	NA	3	0.61	10	0.8	0.65
2015	3	4.7	4.4	NA	3	0.61	10	0.8	0.65
2015	3	4.7	5	NA	3	0.61	10	0.8	0.65
2015	3	4.9	4.7	NA	3	0.61	10	0.8	0.65
2015	3	4.3	4.7	NA	3	0.61	10	0.8	0.65
2015	3	4.5	5	NA	3	0.61	10	0.8	0.65
2015	3	4.6	5.2	NA	3	0.61	10	0.8	0.65
2015	3	4.8	4.1	NA	3	0.61	10	0.8	0.65
2015	3	4.9	NA	0	3	0.61	10	0.8	0.65
2015	3	4.9	NA	0	3	0.61	10	0.8	0.65

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Field data

Year	Month	M.size	F.size	Gift.type	Prey	F.Egg.prop	Gifts	WG.prop	OSR
2015	3	4.8	NA	1	3	0.61	10	0.8	0.65
2015	3	4.6	NA	0	3	0.61	10	0.8	0.65
2015	3	4.5	NA	1	3	0.61	10	0.8	0.65
2015	3	3.8	NA	1	3	0.61	10	0.8	0.65
2015	3	4.3	NA	1	3	0.61	10	0.8	0.65
2015	3	4.6	NA	1	3	0.61	10	0.8	0.65
2015	3	4.2	NA	1	3	0.61	10	0.8	0.65
2015	3	4.1	NA	1	3	0.61	10	0.8	0.65
2015	3	NA	NA	1	3	0.61	10	0.8	0.65
2015	4	4.2	4.2	NA	40	0.6	6	0.33	0.53
2015	4	4.1	4.6	NA	40	0.6	6	0.33	0.53
2015	4	4.5	4.4	NA	40	0.6	6	0.33	0.53
2015	4	4.2	4.9	NA	40	0.6	6	0.33	0.53
2015	4	5	4.7	NA	40	0.6	6	0.33	0.53
2015	4	4.1	4.6	NA	40	0.6	6	0.33	0.53
2015	4	4.4	5	NA	40	0.6	6	0.33	0.53
2015	4	4.6	4.6	NA	40	0.6	6	0.33	0.53
2015	4	4.6	4.8	NA	40	0.6	6	0.33	0.53
2015	4	4.8	5	NA	40	0.6	6	0.33	0.53
2015	4	5.1	4.1	NA	40	0.6	6	0.33	0.53
2015	4	5.3	4.7	NA	40	0.6	6	0.33	0.53
2015	4	4.8	4.7	0	40	0.6	6	0.33	0.53
2015	4	4.9	4.1	0	40	0.6	6	0.33	0.53
2015	4	4.6	4.5	1	40	0.6	6	0.33	0.53
2015	4	4.7	NA	0	40	0.6	6	0.33	0.53
2015	4	4.7	NA	1	40	0.6	6	0.33	0.53
2016	1	4.6	4.7	NA	6	0.21	15	0.53	0.55
2016	1	3.8	3.8	NA	6	0.21	15	0.53	0.55
2016	1	3.9	4.6	NA	6	0.21	15	0.53	0.55
2016	1	3.7	4.1	NA	6	0.21	15	0.53	0.55
2016	1	4.4	4.7	NA	6	0.21	15	0.53	0.55
2016	1	4.1	4.1	NA	6	0.21	15	0.53	0.55
2016	1	3.6	3.8	NA	6	0.21	15	0.53	0.55
2016	1	4.2	4.5	NA	6	0.21	15	0.53	0.55
2016	1	4.4	4.3	NA	6	0.21	15	0.53	0.55
2016	1	4	4.8	NA	6	0.21	15	0.53	0.55
2016	1	3.6	4.5	NA	6	0.21	15	0.53	0.55
2016	1	4	3.9	NA	6	0.21	15	0.53	0.55

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Year	Month	M.size	F.size	Gift.type	Prey	F.Egg.prop	Gifts	WG.prop	OSR
2016	1	4.4	4.1	NA	6	0.21	15	0.53	0.55
2016	1	4.6	3.8	NA	6	0.21	15	0.53	0.55
2016	1	3.7	3.7	NA	6	0.21	15	0.53	0.55
2016	1	4.2	4.4	NA	6	0.21	15	0.53	0.55
2016	1	4.2	4	NA	6	0.21	15	0.53	0.55
2016	1	4.1	4.4	1	6	0.21	15	0.53	0.55
2016	1	3.9	4	1	6	0.21	15	0.53	0.55
2016	1	4	4.5	0	6	0.21	15	0.53	0.55
2016	1	3.5	NA	1	6	0.21	15	0.53	0.55
2016	1	3.9	NA	0	6	0.21	15	0.53	0.55
2016	1	4	NA	1	6	0.21	15	0.53	0.55
2016	1	3.8	NA	1	6	0.21	15	0.53	0.55
2016	1	3.5	NA	0	6	0.21	15	0.53	0.55
2016	1	3.4	NA	1	6	0.21	15	0.53	0.55
2016	1	4	NA	0	6	0.21	15	0.53	0.55
2016	1	3.6	NA	1	6	0.21	15	0.53	0.55
2016	1	3.9	NA	0	6	0.21	15	0.53	0.55
2016	1	4.2	NA	1	6	0.21	15	0.53	0.55
2016	1	3.4	NA	0	6	0.21	15	0.53	0.55
2016	1	4	NA	0	6	0.21	15	0.53	0.55
2016	2	4.4	4.6	NA	10000	0.71	31	0.25	0.77
2016	2	3.8	4.2	NA	10000	0.71	31	0.25	0.77
2016	2	4.4	4.3	NA	10000	0.71	31	0.25	0.77
2016	2	4.6	4.1	NA	10000	0.71	31	0.25	0.77
2016	2	4	4	NA	10000	0.71	31	0.25	0.77
2016	2	4	3.7	NA	10000	0.71	31	0.25	0.77
2016	2	3.9	4.1	NA	10000	0.71	31	0.25	0.77
2016	2	3.4	3.8	0	10000	0.71	31	0.25	0.77
2016	2	4.4	4.4	0	10000	0.71	31	0.25	0.77
2016	2	4.2	4.6	1	10000	0.71	31	0.25	0.77
2016	2	4.4	3.6	0	10000	0.71	31	0.25	0.77
2016	2	4	NA	0	10000	0.71	31	0.25	0.77
2016	2	4.2	NA	0	10000	0.71	31	0.25	0.77
2016	2	5	NA	0	10000	0.71	31	0.25	0.77
2016	2	5.1	NA	0	10000	0.71	31	0.25	0.77
2016	2	4	NA	1	10000	0.71	31	0.25	0.77
2016	2	4.3	NA	0	10000	0.71	31	0.25	0.77
2016	2	4.1	NA	0	10000	0.71	31	0.25	0.77

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Year	Month	M.size	F.size	Gift.type	Prey	F.Egg.prop	Gifts	WG.prop	OSR
2016	2	4	NA	0	10000	0.71	31	0.25	0.77
2016	2	3.5	NA	0	10000	0.71	31	0.25	0.77
2016	2	3.8	NA	0	10000	0.71	31	0.25	0.77
2016	2	3.6	NA	0	10000	0.71	31	0.25	0.77
2016	2	4	NA	0	10000	0.71	31	0.25	0.77
2016	2	4.5	NA	1	10000	0.71	31	0.25	0.77
2016	2	4	NA	1	10000	0.71	31	0.25	0.77
2016	2	3.6	NA	1	10000	0.71	31	0.25	0.77
2016	2	3.7	NA	1	10000	0.71	31	0.25	0.77
2016	2	4.5	NA	0	10000	0.71	31	0.25	0.77
2016	2	3.3	NA	0	10000	0.71	31	0.25	0.77
2016	2	4.1	NA	1	10000	0.71	31	0.25	0.77
2016	2	3.9	NA	0	10000	0.71	31	0.25	0.77
2016	2	4	NA	0	10000	0.71	31	0.25	0.77
2016	2	4.4	NA	0	10000	0.71	31	0.25	0.77
2016	2	4.4	NA	1	10000	0.71	31	0.25	0.77
2016	2	4.1	NA	0	10000	0.71	31	0.25	0.77
2016	2	3.4	NA	0	10000	0.71	31	0.25	0.77
2016	2	4.4	NA	0	10000	0.71	31	0.25	0.77
2016	2	4	NA	0	10000	0.71	31	0.25	0.77
2016	3	NA	4.6	NA	546	0.67	18	0.44	0.7
2016	3	4	4.2	NA	546	0.67	18	0.44	0.7
2016	3	4.4	4.1	NA	546	0.67	18	0.44	0.7
2016	3	3.7	4.5	NA	546	0.67	18	0.44	0.7
2016	3	4.4	4.3	NA	546	0.67	18	0.44	0.7
2016	3	4.9	4.4	NA	546	0.67	18	0.44	0.7
2016	3	4.4	4.2	NA	546	0.67	18	0.44	0.7
2016	3	4.6	4.2	NA	546	0.67	18	0.44	0.7
2016	3	4.3	4.3	NA	546	0.67	18	0.44	0.7
2016	3	4	4.4	NA	546	0.67	18	0.44	0.7
2016	3	4.3	4.2	NA	546	0.67	18	0.44	0.7
2016	3	3.8	4.6	NA	546	0.67	18	0.44	0.7
2016	3	4	4.1	NA	546	0.67	18	0.44	0.7
2016	3	4.5	4	NA	546	0.67	18	0.44	0.7
2016	3	4.3	4.5	NA	546	0.67	18	0.44	0.7
2016	3	4.3	4.6	NA	546	0.67	18	0.44	0.7
2016	3	4.1	4.9	NA	546	0.67	18	0.44	0.7
2016	3	4.2	NA	NA	546	0.67	18	0.44	0.7

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Field data

Year	Month	M.size	F.size	Gift.type	Prey	F.Egg.prop	Gifts	WG.prop	OSR
2016	3	4	NA	NA	546	0.67	18	0.44	0.7
2016	3	4.2	NA	NA	546	0.67	18	0.44	0.7
2016	3	4.1	NA	NA	546	0.67	18	0.44	0.7
2016	3	4.3	NA	1	546	0.67	18	0.44	0.7
2016	3	4.9	NA	0	546	0.67	18	0.44	0.7
2016	3	4.4	NA	1	546	0.67	18	0.44	0.7
2016	3	3.8	NA	1	546	0.67	18	0.44	0.7
2016	3	4.4	NA	0	546	0.67	18	0.44	0.7
2016	3	4.5	NA	0	546	0.67	18	0.44	0.7
2016	3	4.2	NA	1	546	0.67	18	0.44	0.7
2016	3	4.1	NA	1	546	0.67	18	0.44	0.7
2016	3	4.7	NA	1	546	0.67	18	0.44	0.7
2016	3	4.1	NA	0	546	0.67	18	0.44	0.7
2016	3	4.5	NA	0	546	0.67	18	0.44	0.7
2016	3	4.2	NA	0	546	0.67	18	0.44	0.7
2016	3	4.4	NA	1	546	0.67	18	0.44	0.7
2016	3	4.2	NA	1	546	0.67	18	0.44	0.7
2016	3	5	NA	0	546	0.67	18	0.44	0.7
2016	3	4.7	NA	0	546	0.67	18	0.44	0.7
2016	3	5	NA	0	546	0.67	18	0.44	0.7
2016	3	4.5	NA	0	546	0.67	18	0.44	0.7
2016	4	4.3	4.2	NA	10000	0.7	1	0	0.5
2016	4	4.2	4.2	NA	10000	0.7	1	0	0.5
2016	4	4	4.4	NA	10000	0.7	1	0	0.5
2016	4	4.5	3.9	NA	10000	0.7	1	0	0.5
2016	4	4	4.6	NA	10000	0.7	1	0	0.5
2016	4	3.8	4.6	NA	10000	0.7	1	0	0.5
2016	4	3.9	5	NA	10000	0.7	1	0	0.5
2016	4	3.9	3.9	NA	10000	0.7	1	0	0.5
2016	4	4.1	4.2	NA	10000	0.7	1	0	0.5
2016	4	4.2	4.3	NA	10000	0.7	1	0	0.5
2016	4	3.9	4.4	NA	10000	0.7	1	0	0.5
2016	4	3.9	4.5	NA	10000	0.7	1	0	0.5
2016	4	4.4	4.4	0	10000	0.7	1	0	0.5

Variables

Year	Year of data collection: 2015, 2016
Month	Date of collection: 1: September, 2: October, 3: November, 4: December
M.size	Male body size: cephalothorax width (mm)
F.size	Female body size: cephalothorax width (mm)
Gift.type	Gift type: 1: worthless, 0: nutritive
Prey	Number of prey available per date
F.Egg.prop	Proportion of females with an eggsac per date
WG.prop	Proportion of worthless gifts per date
OSR	Operational Sex Ratio, number of adult males divided by the number of adult males plus the number of receptive adult females (without an eggsac)

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