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Table A1. Overview of all wallabies sampled. Information includes ID, sex, reproduction status of females (pouch young), body weight, GPS points (day and night), duration of tracking, and observed and simulated crossing locations at day and night.

ID	Sex	Pouch young	Weight (kg)	Tracking Duration	GPS points		Duration (days)	Observed crossings		Simulated crossings	
					Day	Night		Day	Night	Day	Night
MF002	♀	YES	10.1	16.01.2015–20.01.2015	122	69	4	5	1	2	2
MF009	♀	NO	8.9	01.05.2015–18.05.2015	194	237	7	0	0	3	8
MF013	♀	YES	13.0	22.03.2015–02.04.2015	282	470	10	0	0	0	0
MF016	♀	YES	13.8	27.06.2015–07.07.2015	270	483	10	0	1	0	14
MF018	♀	YES	12.6	17.07.2015–25.07.2015	141	147	9	0	0	1	5
MF021	♀	NO	11.7	15.12.2015–24.12.2015	427	307	9	0	0	2	5
MF022	♀	NO	11.1	17.12.2015–23.12.2015	85	56	5	0	0	0	5
MF024	♀	YES	10.5	17.01.2016–20.01.2016	7	18	3	0	0	0	0
MF028	♀	YES	12.8	08.02.2016–16.02.2016	299	332	9	0	0	20	17

MF029	♀	YES	13.2	08.02.2016–21.02.2016	337	346	13	0	0	11	16
MF032	♀	NO	12.8	30.03.2016–09.03.2016	299	402	10	0	0	4	12
MF033	♀	YES	10.3	31.03.2016–03.04.2016	7	59	2	0	0	0	2
MF038	♀	YES	11.0	28.04.2016–03.05.2016	134	203	5	0	0	0	0
MF040	♀	YES	11.3	28.04.2016–04.05.2016	176	253	6	7	3	0	0
MF043	♀	YES	9.5	14.02.2017–16.02.2017	1	19	2	0	0	0	0
MF046	♀	YES	10.2	04.03.2017–10.03.2017	66	130	6	13	4	4	5
MF054	♀	NO	14.6	13.02.2017–22.02.2017	421	376	9	3	8	3	2
MF056	♀	YES	13.5	15.02.2017–23.02.2017	280	264	8	5	2	13	4
MF057	♀	NO	9.2	13.02.2017–23.02.2017	449	381	10	0	0	0	1
MF058	♀	NO	12.4	14.02.2017–17.02.2017	54	20	3	0	0	0	0
MF063	♀	NO	11.3	15.02.2017–21.02.2017	254	204	6	0	0	0	1
MF001	♂	NA	14.8	21.03.2015–30.03.2015	312	379	9	1	3	0	0
MF006	♂	NA	14.8	12.01.2015–17.01.2015	52	40	5	0	0	0	0
MF010	♂	NA	15.8	21.03.2015–27.03.2015	215	314	6	0	0	0	0
MF011	♂	NA	15.1	22.03.2015–30.06.2015	168	274	8	0	0	6	4

MF014	♂	NA	10.8	23.05.2015–02.04.2015	290	505	10	0	0	0	0
MF017	♂	NA	14.2	28.06.2015–08.06.2015	295	519	10	3	10	7	3
MF019	♂	NA	14.7	17.07.2015–24.07.2015	168	299	7	0	0	0	0
MF023	♂	NA	13.9	06.01.2016–15.01.2016	252	182	8	0	0	6	4
MF030	♂	NA	16.2	16.01.2016–21.01.2016	165	175	5	0	0	6	10
MF031	♂	NA	13.1	28.02.2016–10.03.2016	396	431	11	0	0	11	17
MF039	♂	NA	15.9	28.04.2016–08.05.2016	306	463	10	0	0	6	10
MF044	♂	NA	16.9	13.02.2017–24.02.2017	457	383	11	0	0	8	19
MF047	♂	NA	13.9	12.02.2017–20.02.2017	236	309	8	0	5	2	6
MF048	♂	NA	11.0	21.02.2016–28.02.2016	65	66	7	0	0	3	2
MF049	♂	NA	19.3	04.03.2016–14.03.2016	222	308	10	0	8	0	5
MF050	♂	NA	18.4	15.01.2017–20.01.2017	4	9	5	0	0	0	0
MF051	♂	NA	10.6	16.01.2017–24.01.2017	111	105	8	0	0	0	2
MF052	♂	NA	18.3	12.02.2017–21.02.2017	321	311	9	6	10	3	2
MF053	♂	NA	16.0	12.02.2017–22.02.2017	461	362	10	0	0	0	0
MF055	♂	NA	17.9	13.02.2017–23.02.2017	464	424	10	0	4	4	7

MF061	♂	NA	9.7	14.02.2017–20.02.2017	93	93	6	0	0	0	0
MF064	♂	NA	10.1	02.03.2017–09.03.2017	222	228	7	0	0	0	0
MF066	♂	NA	12.0	14.02.2017–23.02.2017	41	46	9	0	2	2	6
MF068	♂	NA	11.8	04.03.2017–10.03.2017	226	224	6	0	0	1	7
MF069	♂	NA	14.4	16.03.2017–25.03.2017	286	303	9	0	0	0	0
MF070	♂	NA	14.4	16.03.2017–24.03.2017	296	327	8	0	0	0	0

Table A2. Total number of crossing events, crossing events separated into day and night and associated with different speed limits. Values in the water and housing columns shows the number of crossing locations where these variables were present or absent within a 100-m radius circular area (3.14 ha) centred on crossing locations.

Trajectory	Number of total crossings	Time		Speed limit (km/h)		Water		Housing	
		Day	Night	50 - 70	80 - 100	present	absent	present	absent
		observed	104	43	61	6	98	4	100
simulated	326	126	200	103	223	117	209	43	283