

Relative Susceptibilities of Non-target Animals to 1080

(Data from McIlroy 1981-1984, Twigg & King 1989, Martin & Twigg 2002 published in Wildlife Research, Johnston & McCarthy 2007 in Emu & King 1993, APB Tech Series No 8)

Species	Wt (kg)	LD ₅₀ (mg kg ⁻¹)	Amt of 1080 for LD50 (mg)	Oat Bait*				Fresh Meat Bait***		Prepared Bait****	
				Wt of bait for LD50 (g)	No. of grains for LD50	Length of trail** (m)	% of Body wt	Wt of bait for LD50 (g)	% of Body wt	Wt of bait for LD50 (g)	% of Body wt
MARSUPIALS											
CARNIVORES											
Common planigale (WA) <i>Planigale maculata</i>	0.011	4	B	0.04				1.10	10.0	0.51	4.7
Fat-tailed dunnart <i>Sminthopsis crassicaudata</i>	0.013	2.06		0.03				0.67	5.2	0.31	2.4
Striped-faced dunnart <i>Sminthopsis macroura</i>	0.019	1		0.02				0.48	2.5	0.22	1.2
Hairy-footed dunnart <i>Sminthopsis hirtipes</i>	0.016	7	A	0.11				2.80	17.5	1.31	8.2
Ooldea dunnart <i>Sminthopsis ooldea</i>	0.012	1	B	0.01				0.30	2.5	0.14	1.2
Wongai ningau (WA) <i>Ningau ridei</i>	0.008	3	B	0.02				0.60	7.5	0.28	3.5
Yvonne's ningau <i>Ningau yvonneae</i>	0.008	3	B	0.02				0.60	7.5	0.28	3.5
Yellow-footed antechinus (WA) <i>Antechinus flavipes</i>	0.045	12.5	A	0.56				14.06	31.3	6.56	14.6
Kowari <i>Dasyuroides byrnei</i>	0.11	2.9	A	0.32				7.98	7.3	3.72	3.4

* 1g of oats has 30 grains @ 0.0375% 1080

** 80 grains per m of trail

*** 3mg 1080 in 75g fresh meat (fox) or 6mg 1080 in 150g fresh meat (wild dog) ie 0.004% 1080

**** Prepared Baits - 3mg 1080 in 35g FoxOff Econobait™ or 6mg 1080 in 70g Doggone™ ie. 0.009% 1080

#@ Southern Brown Bandicoot from WA approx LD50=20mg/kg

^A approximate LD50

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BANDICOOT & BILBY												
Southern brown bandicoot#@ <i>Isodon obesulus</i>	0.8	7	A	5.60	15.56	467	6	1.94	140.00	17.5	65.35	8.2
Bilby (WA) <i>Macrotis lagotis</i>	1.5	15	A	22.50	62.50	1875	23	4.17	562.50	37.5	262.58	17.5
WOMBATS												
Common Wombat <i>Vombatus ursinus</i>	24	0.2		4.80	13.33	400	5	0.06	120.00	0.5	56.02	0.2
Hairy-nosed wombat <i>Lasiorhinus latifrons</i>	24	0.21		5.04	14.00	420	5	0.06	126.00	0.5	58.82	0.2
POSSUMS												
Common ring-tail possum(WA) <i>Pseudocheirus peregrinus</i>	0.9	2	A	1.80	5.00	150	2	0.56	45.00	5.0	21.01	2.3
Brushtail possum <i>Trichosurus vulpecula</i>	2.6	0.67		1.74	4.84	145	2	0.19	43.55	1.7	20.33	0.8
Western pygmy possum <i>Cercartetus concinnus</i>	0.013	10	A	0.13					3.25	25.0	1.52	11.7

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MACROPODS												
Brush-tailed bettong (WA) <i>Bettongia penicillata</i>	1.3	100	A	130.00	361.11	10833	135	27.8	3250.00	250.0	1517.10	116.7
Tammar wallaby <i>Macropus eugenii</i>	6	0.3		1.80	5.00	150	2	0.08	45.00	0.8	21.01	0.4
Red-necked wallaby <i>Macropus rufogriseus</i>	19	0.2	A	3.80	10.56	317	4	0.06	95.00	0.5	44.35	0.2
Euro(WA) <i>Macropus robustus</i>	25	2	A	50.00	138.89	4167	52	0.56	1250.00	5.0	583.50	2.3
Western grey kangaroo <i>Macropus fuliginosus</i>	30	20	A	600.00	1666.67	50000	625	5.56	15000.0 0	50.0	7002.00	23.3
Eastern grey kangaroo <i>Macropus giganteus</i>	30	0.3	A	9.00	25.00	750	9	0.08	225.00	0.8	105.03	0.4
Red kangaroo <i>Macropus rufus</i>	30	3.2		96.00	266.67	8000	100	0.89	2400.00	8.0	1120.32	3.7

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PLACENTAL MAMMALS											
NATIVE MICE & RATS											
Sandy Inland Mouse <i>Pseudomys hermannsburgensis</i>	0.015	39.3	0.59	1.64	49	1	10.92	14.74	98.3	6.88	45.9
Bolam's Inland Mouse (WA) <i>Pseudomys bolami</i>	0.015	1	^A 0.02	0.04	1	0	0.28	0.38	2.5	0.18	1.2
Plains mouse <i>Pseudomys australis</i>	0.065	1.2	0.08	0.22	7	0	0.33	1.95	3.0	0.91	1.4
Heath rat (WA) <i>Pseudomys shortridgei</i>	0.07	25	^B 1.75	4.86	146	2	6.94	43.75	62.5	20.42	29.2
Spinifex hopping mouse <i>Notomys alexis</i>	0.04	32.5	1.30	3.61	108	1	9.03	32.50	81.3	15.17	37.9
Mitchell's hopping mouse <i>Notomys mitchellii</i>	0.04	19.4	0.78	2.16	65	1	5.39	19.40	48.5	9.06	22.6
Bush rat <i>Rattus fuscipes</i>	0.12	1.13	0.14	0.38	11	0	0.31	3.39	2.8	1.58	1.3
Swamp rat <i>Rattus lutreolus</i>	0.12	1.7	0.20	0.57	17	0	0.47	5.10	4.3	2.38	2.0
Long-haired rat <i>Rattus villosissimus</i>	0.155	1.4	0.22	0.60	18	0	0.39	5.43	3.5	2.53	1.6
Water rat <i>Hydromys chrysogaster</i>	1	3	^A 3.00					75.00	7.5	35.01	3.5

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INTRODUCED SPECIES											
Mouse <i>Mus musculus</i>	0.014	8.3	0.12	0.32	10	0.1	2.31	2.91	20.8	1.36	9.7
Black rat <i>Rattus rattus</i>	0.229	0.76	0.17	0.48	15	0.2	0.21	4.35	1.9	2.03	0.9
Rabbit <i>Oryctolagus cuniculus</i>	1.5	0.37	0.56	1.54	46	0.6	0.10				
Cat <i>Felis catus</i>	4.2	0.4	1.68					42.00	1.0	19.61	0.5
Fox <i>Vulpes vulpes</i>	4.7	0.12	^A 0.56					14.10	0.3	6.58	0.1
Dingo <i>Canis familiaris</i>	16	0.11	1.76					44.00	0.3	20.54	0.1
Goat <i>Capra hircus</i>	37	0.5	^A 18.50	51.39	1542	19	0.14	462.50	1.3	215.90	0.6
Sheep <i>Ovis aries</i>	38	0.52	19.76	54.89	1647	21	0.14	494.00	1.3	230.60	0.6
Pig <i>Sus scrofa</i>	55	1.04	57.20	158.89	4767	60	0.29	1430.00	2.6	667.52	1.2
Horse <i>Equus caballus</i>	500	0.41	^A 205.00	569.44	17083	214	0.11	5125.00	1.0	2392.35	0.5
European cattle <i>Bos taurus</i>	520	0.39	202.80	563.33	16900	211	0.11	5070.00	1.0	2366.68	0.5

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Sparrow <i>Passer domesticus</i>	0.03	2.82	0.08	0.24	7	0.1	0.78	2.12	7.1	0.99	3.3
Common starling <i>Sturnus vulgaris</i>	0.07	4.75	^A 0.33	0.92	28	0.3	1.32	8.31	11.9	3.88	5.5
Blackbird <i>Turdus merula</i>	0.08	9.5	^A 0.76	2.11	63	0.8	2.64	19.00	23.8	8.87	11.1
Domestic pigeon <i>Columba livia</i>	0.4	3.98	1.59	4.42	133	2	1.11	39.80	10.0	18.58	4.6
Domestic Fowl <i>Gallus gallus</i>	1.5	≤ 10.0	15	15	450	6.4	1	375.00	25.0	175.05	11.7

NATIVE BIRDS

Black duck <i>Anas superciliosa</i>	1	18.9	18.90	52.50	1575	20	5.25	472.50	47.3	220.56	22.1
Maned duck <i>Chenonetta jubata</i>	0.7	12.6	8.82	24.50	735	9	3.50	220.50	31.5	102.93	14.7
Brown Falcon (WA) <i>Falco berigora</i>	0.44	20	^B 8.80					220.00	50.0	102.70	23.3
Black kite <i>Milvus migrans</i>	0.56	18.5	10.36					259.00	46.3	120.90	21.6
Wedge-tailed eagle <i>Aquila audax</i>	3.1	9.5	29.45					736.25	23.8	343.68	11.1
	40	278	^A 11120.00	30889.00	926667	11583	77.22	278000.0	695.0	129770.0	324.4

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Emu <i>Dromaius novaehollandiae</i>												
Mallee fowl <i>Leipoa ocellata</i>	2	100	A	200.00	555.56	16667	208	27.78	5000.00	250.0	2334.00	116.7
Bush Stone-curlew <i>Burhinus grallarius</i>	0.7	10	B	7.00	19.44	583	7	2.78	175.00	25.0	81.69	11.7
Common Bronzewing (SA)## <i>Phaps chalcoptera</i>	0.34	25	A	8.50	23.61	708	9	6.94				
Crested pigeon (WA) <i>Ocyphaps lophotes</i>	0.2	25	A	5.00	13.89	417	5	6.94				
Peaceful dove <i>Geopelia striata</i>	0.05	9.5	B	0.48	1.32	40	0	2.64				
Diamond dove <i>Geopelia cuneata</i>	0.03	35.5		1.07	2.96	89	1	9.86				
Galah <i>Eolophus roseicapillus</i>	0.31	5.5	A	1.71	4.74	142	2	1.53				
Little corella (WA) <i>Cacatua sanguinea</i>	0.55	1.43	B	0.79	2.18	66	1	0.40				
Sulphur-crested cockatoo <i>Cacatua galerita</i>	0.8	3.56		2.85	7.91	237	3	0.99				
Crimson rosella <i>Platycercus elegans</i>	0.14	0.87	A	0.12	0.34	10	0.1	0.24				
Eastern rosella <i>Platycercus eximius</i>	0.1	3.45	A	0.35	0.96	29	0.4	0.96				

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Red-rumped parrot <i>Psephotus haematonotus</i>	0.06	5.25	A	0.32	0.88	26	0.3	1.46				
Laughing kookaburra <i>Dacelo novaeguineae</i>	0.3	6	A	1.80					45.00	15.0	21.01	7.0
Grey shrike-thrush <i>Colluricincla harmonica</i>	0.07	12	A	0.84	2.33	70	0.9	3.33	21.00	30.0	9.80	14.0
White-winged chough <i>Corcorax melanorhamphos</i>	0.33	1.75		0.58	1.60	48	0.6	0.49	14.44	4.4	6.74	2.0
Australian magpie-lark <i>Grallina cyanoleuca</i>	0.09	6.75	A	0.61	1.69	51	0.6	1.88	15.19	16.9	7.09	7.9
Australian magpie <i>Cracticus tibicen</i>	0.32	9.91		3.17	8.81	264	3	2.75	79.28	24.8	37.01	11.6
Pied currawong <i>Strepera graculina</i>	0.3	13.1		3.93	10.92	328	4	3.64	98.25	32.8	45.86	15.3
Australian raven <i>Corvus coronoides</i>	0.585	5.1	A	2.98	8.29	249	3	1.42	74.59	12.8	34.82	6.0
Little crow <i>Corvus bennetti</i>	0.4	13.4		5.36	14.89	447	6	3.72	134.00	33.5	62.55	15.6
Little raven <i>Corvus mellori</i>	0.56	3.1		1.74	4.82	145	2	0.86	43.40	7.8	20.26	3.6

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REPTILES											
Blotched blue-tongued lizard <i>Tiliqua nigrolutea</i>	0.45	336	151.20					3780.00	840.0	1764.50	392.1
Shingle-back lizard <i>Tiliqua rugosa</i>	0.45	206	92.70					2317.50	515.0	1081.81	240.4
Sand goanna <i>Varanus gouldii</i>	0.84	43.6	36.62					915.60	109.0	427.40	50.9
Rosenberg's goanna (WA) <i>Varanus rosenbergi</i>	0.7	200	A 140.00					3500.00	500.0	1633.80	233.4

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