

**Table A. Amphibians**

Species	Common Name	Sample Size (eyes)	Mean (mmHg)	Standard Deviation (mmHg)	Method <sup>1</sup>	Weight (if indicated) (kg)	Source
<i>Anaxyrus americanus</i>	<b>American Toad</b>	70	7.3	1.2	TonoVet (P)	0.004-0.039	[50]
<i>Anaxyrus cognatus</i>	<b>Great Plains Toad</b>	68	6.3	1.1	TonoVet (P)	0.037-0.093	[50]
<i>Anaxyrus woodhouseii</i>	<b>Woodhouse's Toad</b>	36	5.8	1.5	TonoVet (P)	0.042-0.099	[50]
<i>Lithobates blairi</i>	<b>Plains Leopard Frog</b>	66	6.3	1.4	TonoVet (P)	0.006-0.059	[50]
<i>Lithobates catesbeianus</i>	<b>American Bullfrog</b>	12	5.1	1.4	TonoVet (P)	0.016-0.199	[50]
<i>Rhinella marina</i>	<b>Cane Toad</b>	8	6.3	1.4	TonoVet (P)	0.235-0.400	[50]
<i>Speo bombifrons</i>	<b>Plains Spadefoot Toad</b>	60	6.5	1.5	TonoVet (P)	0.005-0.037	[50]

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<sup>1</sup> See Table F for types of tonometry and manufacturers.

**Table B. Birds**

Species	Common Name	Sample Size (eyes)	Mean (mmHg)	Standard Deviation (mmHg)	Method	Weight (if indicated) (kg)	Source
<i>Accipiter cooperii</i>	<b>Cooper's Hawk</b>	6	16.0	1.8	Tono-Pen XL	<i>n.i.</i>	[51]
			10.7	1.4	TonoVet (P)		
<i>Accipiter gentilis</i>	<b>Northern Goshawk</b>	18	21.2	2.4	TonoVet (D)	<i>n.i.</i>	[40]
<i>Accipiter nisus</i>	<b>Eurasian Sparrowhawk</b>	26	16.0	2.8	TonoVet (D)	<i>n.i.</i>	[40]
<i>Aquila chrysaetos</i>	<b>Golden Eagle</b>	14	21.5	3.0	Tono-Pen XL	<i>n.i.</i>	[52]
<i>Asio otus</i>	<b>Long-Eared Owl</b>	17	8.5	3.0	TonoVet (D)	<i>n.i.</i>	[40]
		4	9.8	1.2	Tono-Pen XL	<i>n.i.</i>	[53]
<i>Athene noctua</i>	<b>Little Owl</b>	4	12.3	2.5	Tono-Pen XL	<i>n.i.</i>	[53]
		40	9.83	3.41	Tono-Pen XL		[54]
<i>Bubo bubo</i>	<b>Eurasian Eagle Owl</b>	20	9.35	1.81	Tono-Pen XL	<i>n.i.</i>	[55]
		20	10.45	1.64	TonoVet		
<i>Bubo bubo ascalaphus</i>	<b>Pharaoh Eagle Owl</b>	2	7.8	3.5	Tono-Pen XL	<i>n.i.</i>	[53]
<i>Bubo bubo interpositus</i>	<b>Aharoni's Eagle Owl</b>	4	15.4	4.1	Tono-Pen XL	<i>n.i.</i>	[53]
<i>Bubo virginianus</i>	<b>Great-Horned Owl</b>	15	9.9	2.4	Tono-Pen XL	<i>n.i.</i>	[51]
			9.9	2.2	TonoVet (P)		
		10	10.8	3.6	Tono-Pen XL	<i>n.i.</i>	[52]

<i>Buteo buteo</i>	<b>Common Buzzard</b>	56	29.9	6.1	TonoVet (D)	<i>n.i.</i>	[40]
		20	19.4	3.9	Tono-Pen XL		[53]
		40	17.2	3.53	Tono-Pen XL		[54]
<i>Buteo buteo vulpinus</i>	<b>Steppe Buzzard</b>	2	25.0	1.6	Tono-Pen XL	<i>n.i.</i>	[53]
<i>Buteo jamaicensis</i>	<b>Red-Tailed Hawk</b>	44	20.3	2.8	Tono-Pen XL	<i>n.i.</i>	[51]
			19.8	4.9	TonoVet (P)		
		20	20.6	3.4	Tono-Pen XL	<i>n.i.</i>	[52]
<i>Buteo rufinus</i>	<b>Long-Legged Buzzard</b>	4	13.3	4	Tono-Pen XL	<i>n.i.</i>	[53]
<i>Buteo swainsoni</i>	<b>Swainson's Hawk</b>	12	20.8	2.3	Tono-Pen XL	<i>n.i.</i>	[52]
<i>Carthartes aura</i>	<b>Turkey vulture</b>	6	15.0	2.1	Tono-Pen XL	<i>n.i.</i>	[51]
			11.7	1.0	TonoVet (P)		
<i>Circaetus aeruginosus</i>	<b>Short-Toed Snake Eagle</b>	4	13.6	0.8	Tono-Pen XL	<i>n.i.</i>	[53]
<i>Circus gallicus</i>	<b>Western March Harrier</b>	4	18.6	2.2	Tono-Pen XL	<i>n.i.</i>	[53]
<i>Circus pygargus</i>	<b>Montagu's Harrier</b>	4	13.4	1.1	Tono-Pen XL	<i>n.i.</i>	[53]
<i>Eudypetes chrysocome</i>	<b>Southern Rockhopper Penguin</b>	32	24.1	5.09	TonoVet (D)	<i>n.i.</i>	[56]
			20.0	5.77	Tono-Pen XL		
<i>Eudypetes chrysolophus</i>	<b>Macaroni Penguin</b>	50	31.6 (healthy)	6.9 (healthy)	TonoVet (D)	<i>n.i.</i>	[56]
			24.1(healthy)	7.5 (healthy)	Tono-Pen XL		
<i>Falco pelegrinoides</i>	<b>Barbary Falcon</b>	2	9.2	1.8	Tono-Pen XL	<i>n.i.</i>	[53]
<i>Falco naumanni</i>	<b>Lesser Kestrel</b>	2	13.7	1.0	Tono-Pen XL	<i>n.i.</i>	[53]
<i>Falco peregrinus</i>	<b>Peregrine Falcon</b>	4	15.3	6.1	TonoVet (D)	<i>n.i.</i>	[40]
<i>Falco sparverius</i>	<b>American Kestrel</b>	8	8.5	4.4	Tono-Pen XL	<i>n.i.</i>	[51]
			6.8	1.7	TonoVet (P)		

<i>Falco tinnunculus</i>	<b>Common Kestrel</b>	19	11.6	2.7	TonoVet (D)	<i>n.i.</i>	[40]
		36	11.9	3.3	Tono-Vet XL	<i>n.i.</i>	[53]
		40	8.53	1.59	Tono-Pen XL	<i>n.i.</i>	[54]
<i>Haliaeetus albicilla</i>	<b>White-Tailed Sea Eagle</b>	25	27.8	5.7	TonoVet (D)	<i>n.i.</i>	[40]
<i>Haliaeetus leucocephalus</i>	<b>Bald Eagle</b>	5	20.6	2.0	Tono-Pen XL	<i>n.i.</i>	[57]
		32	21.5	1.7	Tono-Pen	<i>n.i.</i>	[52]
<i>Megascops asio</i>	<b>Eastern Screech Owl</b>	4	9.3	2.6	Tono-Pen XL	<i>n.i.</i>	[58]
			6.3	1.3	TonoVet (P)		
		42	9	1.8	Tono-Vet (P)	0.1623 (0.018.1 SD) (0.1314 – 0.1935)	[51]
			14	2.4	Tono-Vet (D)		
			11	1.9	TonoPen XL		
<i>Milvus migrans</i>	<b>Black Kite</b>	10	17.1	7.2	Tono-Vet XL	<i>n.i.</i>	[53]
<i>Milvus milvus</i>	<b>Red Kite</b>	6	12.7	6.5	TonoVet (D)	<i>n.i.</i>	[40]
<i>Otus scops</i>	<b>Scops Owl</b>	23	14.5	3.9	Tono-Vet XL	<i>n.i.</i>	[53]
<i>Pernis apivorus</i>	<b>European Honey Buzzard</b>	18	14.4	2.8	Tono-Vet XL	<i>n.i.</i>	[53]
<i>Phoenicopterus Ruber</i>	<b>American Flamingo</b>	56	11.0 (upright) 14.3 (feeding)	1.6 (upright) 2.2 (feeding)	TonoVet	<i>n.i.</i>	[60]
		16	16.1	4.2	TonoPen XL	3.1 (0.48 SD) (2.2 – 4.4)	[59]
		18	9.5	1.7	TonoVet		
<i>Poicephalus rufiventris</i>	<b>Red-Bellied Parrot</b>	1	11 (left) 12 (right)		<i>n.i.</i>	<i>n.i.</i>	[61]
<i>Rhea Americana</i>	<b>Great Rhea</b>	1	12 (left) 11 (right)		TonoPen XL	<i>n.i.</i>	[62]

<i>Spheniscus demersus</i>	<b>Black-Footed Penguin</b>	36	31.77	3.3	TonoVet	2.816 (SD not reported)	[63]
		34	28.13 (left) 30.41 (right)	6.84 (left) 4.27 (right)	TonoVet (D)	<i>n.i.</i>	[64]
25.05 (left) 25.06 (right)	5.56 (left) 4.35 (right)		TonoVet (H)				
<i>Spheniscus humboldti</i>	<b>Humboldt Penguin</b>	48	20.36	4.1	Tono-Pen XL	<i>n.i.</i>	[65]
<i>Strix aluco</i>	<b>Eurasian Tawny Owl</b>	12	11.1	3.1	TonoVet (D)	<i>n.i.</i>	[40]
		40	11.21	3.12	Tono-Pen XL	<i>n.i.</i>	[54]
<i>Strix varia</i>	<b>Barred Owl</b>	3	11.7	3.8	Tono-Pen XL	<i>n.i.</i>	[51]
			8.3	3.2	TonoVet (P)		
<i>Struthio camelus</i>	<b>Ostrich</b>	40	18.3	3.5	Tono-Pen	<i>n.i.</i>	[66]
<i>Tyto alba</i>	<b>Barn Owl</b>	4	11.5	4.7	TonoVet (D)	<i>n.i.</i>	[40]
		29	18.0	6.6	Tono-Pen XL	<i>n.i.</i>	[53]

**Table C. Fish**

<b>Species</b>	<b>Common Name</b>	<b>Sample Size (eyes)</b>	<b>Mean (mmHg)</b>	<b>Standard Deviation (mmHg)</b>	<b>Method</b>	<b>Weight (if indicated) (kg)</b>	<b>Source</b>
<i>Cyprinus carpio</i>	<b>Koi Fish</b>	18	4.944	2.99	TonoVet (D)	<i>n.i.</i>	[67]
<i>Salvelinus gairdneri</i>	<b>Rainbow Trout</b>	54	4.9	0.33	Manometer	<i>n.i.</i>	[68]
<i>Salvelinus namaycush</i>	<b>Lake Trout</b>	61	13.2	0.67	Manometer	0.150 (0.0042 SD)	[68]

**Table D. Mammals**

Species	Common Name	Sample Size (eyes)	Mean (mmHg)	Standard Deviation (mmHg)	Method	Weight (if indicated) (kg)	Source
<i>Adax nasomaculatus</i>	<b>Addax Antelope</b>	36	11.2	3.2	Tono-Pen XL	85.6 (35.6 SD)	[69]
<i>Aepyceros melampus</i>	<b>Impala</b>	8	8.0	1.2	Tono-Pen XL	53.5 (28.7 SD)	[69]
<i>Arctocephalus pusillus pusillus</i>	<b>South African Seal</b>	2	31.5	0.7	Tono-Pen	<i>n.i.</i>	[70]
<i>Bos taurus taurus</i>	<b>Cattle</b>	20	18.8	1.7	Perkins	<i>n.i.</i>	[72]
			19.7	1.2	Manometer		
		64	27.5	4.8	Mackay-Marg	<i>n.i.</i>	[71]
		54	28.2	4.6	Mackay-Marg	<i>n.i.</i>	
26.9	6.7		Tono-Pen XL				
<i>Canis lupus familiaris</i>	<b>Dog (Beagle)</b>	4	12.8	2.1	Langham	<i>n.i.</i>	[73]
<i>Capra hircus</i>	<b>Pigmy Goat</b>	20	11.8	1.5	TonoVet (D)	33.7 (SD <i>n.i.</i> )	[74]
			7.9	1.7	Tono-Vet (P)		
			10.8	1.7	Tono-Pen XL		
<i>Capra ibex nubiana</i>	<b>Nubian Ibex</b>	24	17.95	4.78	Schiotz	39.1 (8.3 SD)	[75]
<i>Castor canadensis</i>	<b>Canadian Beaver</b>	32	18.79 (left) 17.11 (right)	5.63 6.39	Tono-Pen XL	7-20	[76]
<i>Cebus abella</i>	<b>Capuchin Monkey</b>	30	18.4	3.8	Tono-Pen XL	2-5	[77]
<i>Ceratotherium simum</i>	<b>Wide-Lipped Rhinoceros</b>	22	32.1	10.4	Tono-Pen XL	2055 (235 SD)	[69]
<i>Chinchilla lanigera</i>	<b>Chinchilla</b>	114	17.71	4.17	Tono-Pen XL	0.57069 (0.10869 SD)	[78]
		28	18.5	5.75	Mackay-Marg	0.475-0.675	[79]

<i>Connochaetes gnou</i>	<b>Wide-Tailed Wildebeest</b>	20	15.5	3.7	Tono-Pen XL	121 (68.2 SD)	[69]
<i>Dama mesopotamica</i>	<b>Asian Fallow Deer</b>	15	11.9	3.3	Tono-Pen XL	<i>n.i.</i>	[80]
<i>Equus burchelli</i>	<b>Grant Zebra</b>	20	25.30	3.06	Schiotz	138 (24 SD)	[75]
		6	29.47	3.43	Tono-Pen XL		
<i>Equus ferus caballus</i>	<b>Horse</b>	20	25.1	2.9	Manometer	<i>n.i.</i>	[72]
			23.4	3.2	Perkins		
<i>Felis catus</i>	<b>Cat</b>	8	17	0.8	Schiotz	<i>n.i.</i>	[81]
		7	16	2.3			
		12	12.7	1.1	Pneumatometer	<i>n.i.</i>	[83]
		8	24.6	3.1	Pneumatometer	3-4	[82]
		8	24.3	3.6			
		8	20.9	3.0			
		8	20.8	3.1			
		6	23.2	3.4			
		6	24.5	1.2			
		7	21.4	1.1			
		7	20.4	2.0	Manometer	2.0-3.5	[84]
		6	17.4	1.5			
6	16.7	1.6					
<i>Gazella thomsoni</i>	<b>Thompson's Gazelle</b>	22	7.6	1.6	Tono-Pen XL	22 (3.1 SD)	[85]
<i>Gorilla gorilla gorilla</i>	<b>Western Lowland Gorilla</b>	10	12.0	4.3	Schiotz	90.9 – 159	[86]
<i>Grampus griseus</i>	<b>Risso's Dolphin</b>	2	28.7 (left) 27.5 (right)	–	Tono-Pen	<i>n.i.</i>	[87]
<i>Hemiechinus auritus</i>	<b>Long-Eared Hedgehog</b>	28	20.1	4.0	Tono-Pen Vet	0.3785 (0.0924 SD)	[88]
<i>Homo sapiens sapiens</i>	<b>Human</b>	80	16.3	2.9	Goldmann	<i>n.i.</i>	[90]
		74	14.6	3.5	Goldmann	<i>n.i.</i>	[89]
<i>Hydrochaeris hydrochaeris</i>	<b>Capybara</b>	44	16.47	4.28	Tono-Pen XL	37 – 63	[91]



<i>Lama glama</i>	<b>Llama</b>	32	13.10	0.35		<i>n.i.</i>	[92]
<i>Macaca fascicularis</i>	<b>Cynomolgus Monkey</b>	8	19.3	0.8	Goldman	3-8	[94]
		12	19.6	3.5	Pneumatometer	<i>n.i.</i>	[93]
<i>Macaca mulatta</i>	<b>Rhesus Macaque</b>	11	16.1	0.9	Goldman	<i>n.i.</i>	[95]
		8	19.1	1.1			
		5	18.3	1.6			
		326	16.9	3.8	Applanation		[97]
		20	14.9	2.5	TonoPen XL		[96]
<i>Macropus fuliginosus</i>	<b>Western Grey Kangaroo</b>	16	10.69 (April 2008)	3.59	TonoVet	22 – 63	[98]
		12	9.0 (May 2008)	<i>n.i.</i>			
		16	17.38 (April 2008)	4.44	Tono-Pen XL		
		12	11.5 (May 2008)	<i>n.i.</i>			
<i>Macropus rufus</i>	<b>Red Kangaroo</b>	20	17.45	7.23	Tono-Pen XL	17 – 35 (female) 22 – 85 (male)	[41]
<i>Mazama gouazoubira</i>	<b>Brown Brocket Deer</b>	18	15.3	3.1	Tono-Pen XL	<i>n.i.</i>	[99]
<i>Mus musculus</i>	<b>Mouse (Swiss White)</b>	20	15.7	2.0	Manometer	<i>n.i.</i>	[101]
		6	16.5	0.6	Manometer	<i>n.i.</i>	[100]
		8	15.7	1.0	Manometer	<i>n.i.</i>	[102]
<i>Mustela putorius furo</i>	<b>Ferret</b>	30	14.5	3.27	Tono-Pen XL	<i>n.i.</i>	[103]
<i>Orycteropus afer</i>	<b>Aardvark</b>	2	17.0 (left) 14.0 (right)		Tono-Pen XL	57 – 59	[104]

<i>Oryctolagus cuniculus</i>	<b>Rabbit (New Zealand White)</b>	8	20.1	1.52	Pneumato- nometer	2-2 .5	[108]		
		9	21.7	0.88					
		11	17.2	0.9					
				6	21.0	1.5 (SE)	Pneumato- nometer	2.5-4.0	[109]
				21	17.24	0.25 (SEM)	Pneumato- nometer	3-4	[107]
				10	20.1	0.8 (SEM)	Pneumato- nometer	3-4	[106]
				60	20.5	0.2	Pneumato- nometer	2.1-2.7	[105]
<i>Oryx dammah</i>	<b>Scimitar- Horned Oryx</b>	14	15.8	1.5	Tono-Pen XL	111.4 (63.2 SD)	[69]		
<i>Oryx leucoryx</i>	<b>Arabian Oryx</b>	5	22.68	8.15	Schiotz	132 (16.4 SD)	[75]		
		10	11.76	11.3.43	Tono-Pen XL				
<i>Ovis aries</i>	<b>Sheep</b>	10	15.20 (left) 14.70 (left) 12.70 (left)  16.2 (right) 14.70 (right) 13.90 (right)	1.06 1.15 1.09  1.41 1.34 0.84	Tono-Pen XL	35.73 (1.23 SD)	[110]		
<i>Panthera leo</i>	<b>Lion</b>	44 (22M + 22W)	20.9 (female) 24.9 (male)	2.4 2.0	Schiotz	120 (20.3 SD)	[111]		
<i>Phascolarctos cinereus</i>	<b>Koala</b>	40	24.2	6.45	Manometer	<i>n.i.</i>	[112]		
<i>Pongo pygmaeus</i>	<b>Orangutan</b>	2	13 (left) 14 (right)		Tono-Pen XL	50	[113]		
<i>Pteropus hypomelanus</i>	<b>Island Flying Fox</b>	20	12.1 (upright) 17.45 (hanging)	1.10 1.11	TonoVet	0.425 – 0.571	[114]		
<i>Pteropus pumilus</i>	<b>Little Golden- Mantled Flying Fox</b>	20	15.63 (upright) 22.5 (hanging)	1.01 1.27	TonoVet	0.194	[114]		
<i>Pteropus vamyprus</i>	<b>Malayan Flying Fox</b>	20	14.2 (upright) 18.2 (hanging)	0.89 1.37	TonoVet	0.645 – 1.153	[114]		
<i>Rattus norvegicus</i>	<b>Rat (Lewis)</b>	26	17.25	1.8	Tono-Pen	0.2946 (SD 0.069)	[115]		
		229	17.30	5.25	Pressure Transducer	0.15-0.2	[116]		
<i>Rhinoceros unicornis</i>	<b>One-Horned Rhinoceros</b>	10	31.2	6.62	Tono-Pen	<i>n.i.</i>	[117]		

<i>Rusa unicolor</i>	<b>Sambar Deer</b>	40	11.4	2.8	Tono-Pen XL	102.77 (3.35 SD)	[42]
<i>Sus scrofa domesticus</i>	<b>Domestic Pig</b>	14	14.1	2.2	<i>n.i.</i>	20	[118]
<i>Tursiops truncatus</i>	<b>Bottle-Nosed Dolphin</b>	4	33.4 (male) 24.6 (female)	2.4 2.3	Tono-Pen	<i>n.i.</i>	[87]
<i>Vicugna pacos</i>	<b>Alpaca</b>	36	14.85	0.45		<i>n.i.</i>	[92]
<i>Zalophus californianus</i>	<b>California Sea Lion</b>	39	32.8	3.2	TonoVet	<i>n.i.</i>	[119]

**Table E. Reptiles**

Species	Common Name	Sample Size (eyes)	Mean (mmHg)	Standard Deviation (mmHg)	Method	Weight (if indicated) (kg)	Source
<i>Alligator mississippiensis</i>	<b>American Alligator</b>	16	11.6	0.5	Applanation	<i>n.i.</i>	[43]
<i>Caiman latirostris</i>	<b>Broad-Snouted Caiman</b>	28	12.9	6.1	Tono-Pen XL	<i>n.i.</i>	[120]
<i>Chelonoidis carbonaria</i>	<b>Red-Footed Tortoise</b>	50	15.3	8.81	Tono-Pen	<i>n.i.</i>	[121]
<i>Chelonoidis denticulate</i>	<b>Yellow-Footed Tortoise</b>	30	14.2	1.2	Tono-Pen	<i>n.i.</i>	[122]
<i>Cyclura cyclura cyclura</i>	<b>Andros Island Iguana</b>	104	4.89	1.73	TonoVet (P)	2.4766 (1.663 SD)	[123]
<i>Emys Orbicularis</i>	<b>European Pond Turtle</b>	44	5.42	0.96	TonoVet (P)	0.39228 (0.0731 SD) (female) 0.25884 (0.073 SD) (male)	[124]
<i>Terrapene carolina major</i>	<b>Gulf Coast Box Turtle</b>	138	6.7	1.4	TonoVet (P)	0.7217 (0.1561 SD)	[125]
<i>Terrapene carolina triunguis</i>	<b>Three-Toed Box Turtle</b>	48	8.3	1.5	TonoVet (P)	0.4195 (0.1037 SD)	[125]
<i>Testudo hermanni</i>	<b>Hermann's Tortoise</b>	52	15.74	0.2	Rebound	0.255 – 2.310	[126]
<i>Trachemys scripta elegans</i>	<b>Red-Eared Slider Turtle</b>	34	10.2	0.66	TonoLab	0.770 (0.130 SD)	[127]
			11.32	1.57	TonoVet		

**Table F. List of tonometers**

<b>Tonometer</b>	<b>Type of Tonometry</b>	<b>Manufacturer (if commercial tonometer)</b>	<b>Notes</b>
Tono-Pen	Applanation	Reichert Technologies, Buffalo, NY, USA	–
Tono-Pen XL	Applanation	Reichert Technologies, Buffalo, NY, USA	–
Tono-Pen Vet	Applanation	Reichert Technologies, Buffalo, NY, USA	–
TonoVet	Rebound	Icare Finland Oy, Vanta, Finland	<b>Three calibrations:</b> (D) Dog (H). Horse (P). No specific species calibration
TonoLab	Rebound	Icare Finland Oy, Vanta, Finland	–
Perkins	Applanation	Haag-Streit, Harlow, UK	–
Mackay-Marg	Applanation and Indentation	–	–
Langham	Applanation	–	–
Schiotz	Indentation	–	–
Manometer	Pneumatonometer/ Pressure transducer	–	–
Goldman	Applanation	–	–