

Table S1. Summary of population time series used in cross-validation analyses. Only surveys that represented an index of an entire distinct population or subpopulation were used; in some cases, the survey covers only a fraction of the total population but is considered representative of larger population trends. Breeding ground surveys from single colonies were used when the species showed high year-to-year site fidelity or the colony was a representative index of the population. The references show the original references for the data. Many of the time series were updated by direct contact with the authors or government agencies involved. If the species is listed above the LC (least concern) status on the IUCN Red List, that is noted first in the Status column. If the study population is listed separately in the country or region where the censuses took place, that is listed next. Explanations of the status levels are given in the footnote. Unit of census refers to the segment of the population that is censused. ‘Total population’ does not mean that the total population is counted, rather that the count includes both sexes and both breeding and non-breeding individuals. In all except three cases that are termed ‘Entire Population’, the surveys are index counts of some type.

Common Name	Species	Status in 2006*	Taxonomic Class	Location of Study Population	Length (yrs)	# of Counts	Type of Census	References
American Woodcock	<i>Scolopax minor</i>	A USA	Aves	Eastern region, U.S.	39	39	Total Population	Kelley & Rau (2006)
Antarctic Fulmar	<i>Fulmarus glacialisoides</i>		Aves	Pointe Geologie Archipelago, Antarctica	36	36	Total Population	Jouventin & Weimerskirch (1991), Micol & Jouventin (2001)
Attwater's Prairie Chicken	<i>Tympanuchus cupido attwateri</i>	EN USA	Aves	Coastal Prairie, Louisiana and Texas	59	30	Total Population	Peterson & Silvy (1996)
Bald Eagle	<i>Haliaeetus leucocephalus</i>	T USA	Aves	Florida	31	31	Occupied Territories	Bureau of Wildlife Diversity Conservation (2003)
Black Brant	<i>Branta bernicla</i>	A USA	Aves	Western population	42	42	Total Population	Pacific Flyway Council (2002)
Buller's Albatross	<i>Thalassarche bulleri</i>	VU IUCN	Aves	West Coast, North Island, NZ	35	35	Total Population ⁴	Ornithological Society of NZ, Beach Patrol Database
Common Eider	<i>Somateria mollissima</i>		Aves	Wadden Sea Coast, Germany	37	34	Breeding Pairs	Becker (1991)
Emperor Penguin	<i>Aptenodytes forsteri</i>		Aves	Pointe Geologie Archipelago, Antarctica	37	36	Breeding Pairs	Micol & Jouventin (2001)

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Great Tit	<i>Parus major</i>		Aves	Wytham Wood, UK	30	30	Breeding Pairs	Saether, <i>et al.</i> (1998)
Greater Snow Goose	<i>Anser caerulescens atlantica</i>		Aves	St. Lawrence River, Quebec	42	42	Total Population	Reed, <i>et al.</i> (1998)
Grey-headed Albatross	<i>Thalassarche chrysostoma</i>	VU IUCN	Aves	West Coast, North Island, NZ	35	35	Total Population ⁴	Ornithological Society of NZ, Beach Patrol Database
Grey Heron	<i>Ardea herodias</i>		Aves	England and Wales	50	50	Occupied Nests	Stafford (1971) Reynolds (1974) Reynolds (1979)
Kirtland's Warbler	<i>Dendroica kirtlandii</i>	VU IUCN EN USA	Aves	northern half of Michigan's lower peninsula	33	33	Singing Males	Dennis, <i>et al.</i> (1991) Solomon (1998)
Kittiwake	<i>Rissa tridactyla</i>	A UK	Aves	North Shields, Tyne and Wear, UK	34	34	Nests with Eggs	Coulson & Thomas (1985)
Lapwing	<i>Vanellus vanellus</i>	A UK	Aves	'The Hille', Lancashire, UK	32	32	Territories per km	Fuller, <i>et al.</i> (2002)
Light-mantled Albatross	<i>Phoebastria palpebrata</i>	NT IUCN 5 NZ	Aves	West Coast, North Island, NZ	35	35	Total Population ⁴	Ornithological Society of NZ, Beach Patrol Database
Meadow Pipit	<i>Anthus pratensis</i>	A UK	Aves	'The Hille', Lancashire, UK	32	32	Territories per km	Fuller, <i>et al.</i> (2002)
Mute Swan	<i>Cygnus olor</i>	A UK	Aves	Thames River, UK	150	138	Total Population	Cramp (1972)
New Zealand Shore Plover	<i>Thinornis novaeseelandiae</i>	EN IUCN 1 NZ	Aves	South East Island, Chatham Islands, NZ	39	20	Total Adults	Davis (1994) Department of Conservation (2001)
Pacific Brant	<i>Branta bernicla</i>	A USA	Aves	Western High Arctic population	53	53	Total Population	Pacific Flyway Council (2002, U.S. Fish and Wildlife Service (2005)
Peregrine Falcon	<i>Falco peregrinus</i>	A UK	Aves	Cumbria, UK	34	34	Breeding Pairs	Horne & Fielding (2002)

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Puerto Rican Parrot	<i>Amazona vittata</i>	CR IUCN EN USA	Aves	Puerto Rico	36	33	Total Population	Snyder, <i>et al.</i> (1987) U.S. Fish and Wildlife Service (1999)
Reed Bunting	<i>Emberiza schoeniclus</i>	A UK	Aves	'The Hille', Lancashire, UK	32	32	Territories per km	Fuller, <i>et al.</i> (2002)
Red Kite	<i>Milvus milvus</i>	A UK	Aves	Wales	49	41	Total Population	Davis & Newton (1981)
Red-Crowned Crane	<i>Grus japonensis</i>	EN IUCN	Aves	Hokkaido, Japan	35	35	Total Population	Masatomi (1987)
Roseate Terns	<i>Sterna dougallii</i>	R UK	Aves	main colonies in Ireland, Britain, and France	35	35	Breeding Pairs	Cabot (1996)
Greater Sage-Grouse	<i>Centrocercus urophasianus</i>	Petitioned US	Aves	Washington	34	34	Total Population	Stinson, <i>et al.</i> (2004)
Seychelles Magpie Robin	<i>Copsychus seychellarum</i>	CR IUCN	Aves	Frigate Is, Seychelles	35	23	Total Population	Komdeur (1996)
Sharptailed Grouse	<i>Tympanuchus phasianellus</i>	SC US	Aves	Washington	30	30	Total Population	Hays, <i>et al.</i> (1998)
Skylark	<i>Alauda arvensis</i>	A UK	Aves	'The Hille', Lancashire, UK	32	32	Territories per km	Fuller, <i>et al.</i> (2002)
Snipe	<i>Gallinago gallinago</i>	A UK	Aves	'The Hille', Lancashire, UK	32	32	Territories per km	Fuller, <i>et al.</i> (2002)
Sooty Shearwater	<i>Puffinus griseus</i>	NT IUCN 5 NZ	Aves	New Zealand	39	39	Total Population ⁴	Scofield & Christie (2002)
South Polar Skua	<i>Stercorarius maccormicki</i>		Aves	Pointe Geologie Archipelago, Antarctica	34	31	Territories	Micol & Jouventin (2001)
Southern Giant Petrel	<i>Macronectes giganteus</i>	VU IUCN	Aves	Pointe Geologie Archipelago, Antarctica	39	36	Fledged chicks	Micol & Jouventin (2001)

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Trumpeter Swan	<i>Cygnus buccinator</i>	VU1 Canada	Aves	RMP/tri-state flock, Rocky Mountains, US & Canada	33	25	Total Population	U.S. Fish and Wildlife Service (2004)
Trumpeter Swan	<i>Cygnus buccinator</i>	Petitioned US	Aves	RMP/Canada flock, Rocky Mountains, US & Canada	33	25	Total Population	U.S. Fish and Wildlife Service (2004)
Wandering Albatross	<i>Diomedea exulans</i>	VU IUCN	Aves	Bird Island, S. Georgia, Antarctica	33	32	Breeding Pairs	Croxall, <i>et al.</i> (1990) Croxall, <i>et al.</i> (1998) Poncet, <i>et al.</i> (2006)
White Heron	<i>Egretta alba modesta</i>	1 NZ	Aves	Waitangiroto River, New Zealand	51	45	Nests	Miller (2001)
White Stork	<i>Ciconia ciconia</i>	2 SPEC	Aves	Baden-Wurtttemberg, Germany	39	39	Breeding Pairs	Bairlein (1991) Newton (1998)
White Stork	<i>Ciconia ciconia</i>	2 SPEC	Aves	Oldenburg/NW Germany	61	61	Breeders	Bairlein (1991)
White-capped Albatross	<i>Thalassarche steadi</i>	NT IUCN	Aves	West Coast, North Island, NZ	35	35	Total Population ⁴	Ornithological Society of NZ, Beach Patrol Database
Whooping Crane	<i>Grus americana</i>	EN IUCN EN USA	Aves	Arkansas, Texas	66	66	Total Population	Dennis, <i>et al.</i> (1991)
African Elephant	<i>Loxodonta africana</i>	EN IUCN	Mammalia	Addo National Park, South Africa	68	68	Total Population	Whitehouse & Hall-Martin (2000)
Alpine Ibex	<i>Capra ibex</i>		Mammalia	Gran Paradiso National Park, Italy	45	45	Total Population	Jacobson, <i>et al.</i> (2004)
California Gray Whale	<i>Eschrichtium robustus</i>	MMPA	Mammalia	California	46	31	Total Population	Gerber, <i>et al.</i> (1999)
Columbian White-tailed Deer	<i>Odocoileus virginianus leucurus</i>	EN USA ³	Mammalia	Douglas County, Oregon	31	31	Total Population	U.S. Fish and Wildlife Service (2003) U.S. Fish and Wildlife Service (2006)
Grizzly Bear	<i>Ursus arctos horribilis</i>	T USA	Mammalia	Yellowstone National Park	43	43	Adult Females	Eberhardt, <i>et al.</i> (1986) Haroldson (2004)

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Hawaiian Monk Seal	<i>Monachus shauinslandi</i>	EN IUCN EN USA	Mammalia	Hawaiian Islands minus Midway	46	31	Entire Population (almost)	Gilmartin & Eberhardt (1995) Ragen & Lavigne (1999)
Musk Ox	<i>Ovibos moschatus</i>		Mammalia	Nunivak Island, Alaska	33	25	Total Population	Spencer & Lensink (1970)
Northern Fur Seal	<i>Callorhinus ursinus</i>	VU IUCN VU USA	Mammalia	St. Paul Island, Alaska	96	94	Bull Count	National Marine Mammal Laboratory, unpublished data
Northern Fur Seal	<i>Callorhinus ursinus</i>	VU IUCN VU USA	Mammalia	St. George Island, Alaska	96	96	Bull Count	National Marine Mammal Laboratory, unpublished data
Northern Fur Seal	<i>Callorhinus ursinus</i>	VU IUCN VU USA	Mammalia	St. George Island, Alaska	53	46	Pups	York & Hartley (1981) York (1985) York, <i>et al.</i> (2000)
Northern Fur Seal	<i>Callorhinus ursinus</i>	VU IUCN VU USA	Mammalia	St. Paul Island, Alaska	53	46	Pups	York & Hartley (1981) York (1985) York, <i>et al.</i> (2000)
Northern Fur Seal	<i>Callorhinus ursinus</i>	VU IUCN VU USA	Mammalia	San Miguel Island, California	30	30	Pups	York & Hartley (1981) York (1985) York, <i>et al.</i> (2000)
Northern Resident Killer Whale	<i>Orcinus orca</i>	EN Canada	Mammalia	Pacific Northwest, US & Canada	31	31	Total Population	Wiles (2004)
Pronghorn Antelope	<i>Antilocapra americana</i>		Mammalia	Yellowstone National Park	33	32	Spring Population	Keating (2002)
Pronghorn Antelope	<i>Antilocapra americana</i>		Mammalia	Northern Arizona	53	53	Total Population	U.S. Fish and Wildlife Service, unpublished data
Southern Resident Killer Whale	<i>Orcinus orca</i>	EN USA	Mammalia	Pacific Northwest, US & Canada	32	32	Entire Population	Wiles (2004)
Vancouver Island Marmot	<i>Marmota vancouverensis</i>	EN IUCN	Mammalia	Vancouver Island, Canada	30	27	Total Population	Janz, <i>et al.</i> (2000)
Weddell Seal	<i>Leptonychotes weddellii</i>		Mammalia	McMurdo Sound, Antarctica	38	38	Pups	Cameron & Siniff (2004) Cameron (2001)

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Wildebeest	<i>Connochaetes taurinus</i>	CD IUCN	Mammalia	Ngorongoro Crater, Tanzania	30	22	Total Population	Runyoro, <i>et al.</i> (1995)
Wolf	<i>Canis lupus</i>	T USA	Mammalia	Isle Royale National Park, Michigan	48	48	Entire Population	Peterson, <i>et al.</i> (1998), Vucetich & Peterson (2004)
Western Swamp Tortoise	<i>Pseudemydura umbrina</i>	CR IUCN CR AU	Reptilia	Ellen Brook Reserve, W. Australia	37	34	Total Population	Burbidge & Kuchling (2004)
Western Swamp Tortoise	<i>Pseudemydura umbrina</i>	CR IUCN CR AU	Reptilia	Twin Swamps Reserve, W. Australia	31	31	Total Population	Burbidge & Kuchling (2004)

*Status: IUCN: EX (extinct), CR (critically endangered), EN (endangered), VU (vulnerable), T (threatened), CD (conservation dependent), NT (near threatened). USA: EN (endangered), T (threatened), VU (vulnerable), SC (special concern), A (Red or Yellow, Audubon Watchlist). UK: R (Red-listed), A (Amber-listed), BCI (Bird of Conservation Importance, Joint Nature Conservation Committee). AU: CR (critically endangered), VU (vulnerable). NZ: 1 (nationally critical), 5 (gradual decline). SPEC, Species of European Concern: 2 (depleted). MMPA (covered under the U.S. Marine Mammal Protection Act).
1 Delisted 1996

2 The Wood Turtle is listed as endangered, threatened, or special concern at the state level throughout its range in the U.S.

3 The Douglas County DPS was delisted in 2003.

4. Beach carcass counts.

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