How to find data

Dieter Lukas

NCEAS Peers & Beers 13 September 2013

Before starting, decide on:

What do you want data for?

Before starting, decide on:

What do you want data for?

Decide before starting data collection

What do you want data on?

Maybe adapt during data collection

What do you want data for?

What do you want data for?

Press, 2,142 pp. (Available from Johns Hopkins University Press, 1-800-537-5487 or (410) 516-6900, or at http://www.press.jhu.edu).



What do you want data for?

As many of the 5407 species as possible

What do you want data for?

As many of the 5407 species as possible

What do you want data on?

Went from 3 to 7 social systems

What do you want data for?

What do you want data for?

List [edit source | edit beta]

The list is alphabetized by the name of the lake, with the words *lake*, of, and the ignored. To sort on a different Geographic coordinates, approximate elevations, alternative names, and other details may be obtained by follows:



Geographic Names Information System (GNIS)

Note: Lakes grow and shrink due to precipitation, evaporation, releases, and diversions. For this reason, many water storage are indicated. Reservoirs used for flood control are seldom allowed to reach maximum storage.

This list is incomplete; you can help by expanding it.

Name	California county(ies)	GNIS id(s)	Type (origin)	Surface area
Abbotts Lagoon	Marin	217942 &	natural lake (submerged valley) ^[6]	200 acres (81 ha) ^[7]
Almaden Reservoir	Santa Clara	218156 &	reservoir (Almaden Dam)	62 acres (25 ha) ^[8]
Lake Almanor	Plumas	256197 &	reservoir (Lake Almanor Dam)	28,257 acres (11,435 ha)[9]
Lake Aloha	El Dorado	256198 ਲੂ	reservoir (Medley Lakes Dam)	627 acres (253.7 ha)[9]
Lake Alpine	Alpine	218174 ਨੂ	reservoir (Alpine CA00422 Dam)	179 acres (72 ha) ^[8]
Alpine Lake	Marin	218169 &	reservoir (Alpine CA00204 Dam)	224 acres (91 ha) ^[8]
Lake Amador	Amador	1664187 &	reservoir (Jackson Creek Dam)	385 acres (156 ha) ^[9]
Anderson Reservoir	Santa Clara	218262 &	reservoir (Leroy Anderson Dam)	980 acres (400 ha) ^[9]
Angora Lakes	El Dorado	256259 ਨੂ	natural lakes (glacial tarns)	30 acres (12 ha)
Antelope Lake	Plumas	256274 &	reservoir (Antelope Dam)	931 acres (376.8 ha)[8]
Antonelli Pond	Santa Cruz	1872809 &	reservoir (1908)	7 acres (2.8 ha) ^[10]
Lake Anza	Contra Costa	218314 ਨੂ	reservoir (C L Tilden Park Dam)	10 acres (4.0 ha) ^[8]
Lake Arrowhead Reservoir	San Bernardino	269582 ਲੂ	reservoir (Lake Arrowhead Dam)	780 acres (316 ha) ^[9]

What do you want data for?

Lakes within area of specific size

What do you want data for?

Lakes within area of specific size

What do you want data on?

Effects within lakes or between lakes

Before starting, decide on:

What do you want data for?

Make study systematic + reproducible

What do you want data on?

Maximize power for your hypotheses

Compilations in **secondary** literature (reviews, encyclopedias, databases)?

Original information in **primary** literature (papers, reports)?

Compilations in **secondary** literature (reviews, encyclopedias, databases)?

Start and end with

Original information in **primary** literature (papers, reports)?

Reality check

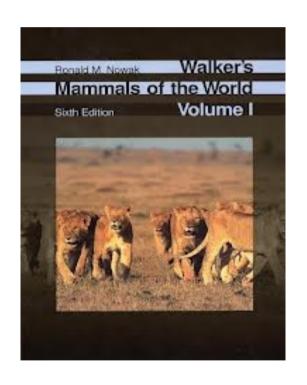
Compilations in **secondary** literature (reviews, encyclopedias, databases)?

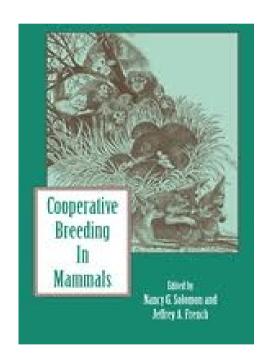
- Provides overview how much data might be available
- Provides ideas about relevant definitions

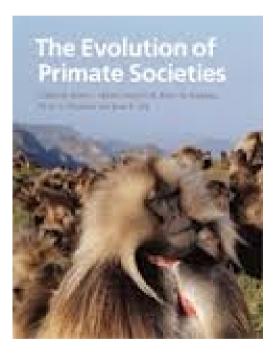
Original information in **primary** literature (papers, reports)?

- Makes sure that information fits with your definitions and is correct
- Provides additional information that might be useful later

Books:







Reviews + other data papers:

VOLUME 52 THE QUARTERLY REVIEW OF BIOLOGY MARCH 1977

MONOGAMY IN MAMMALS

By Devra G. Kleiman

TABLE 1

Mammalian species exhibiting monogamy.

The probability that a species exhibits Type I or Type II Monogamy is suggested in parentheses where sufficient data are available to allow such a classification.

		BASIS FOR	
MAMMAL	COMMON NAME	DECISION	REFERENCE
MARSUPIALIA			
Phalangeridae			
Tarsipes spencerae	Honey possum	F2	Troughton 1941; Gewalt & Grzimek, 1972
INSECTIVORA			
Solenodontidae			
Solenodon paradoxus	Solenodon	F3, C1	Mohr, 1936-38; Eisenberg, 1975
Solehodon paradoxus	Solehodon		Monr, 1930-38; Eisenberg, 1975
		(II)	
Tenrecidae			
Microgale talazaci	Microgale	F2, C1, C2, C4	Eisenberg & Gould, 1970
		(I)	
Macroscelididae		4-9	
Elephantulus rufescens	Elephant shrew	F1, C1, C2, C4	Walker, 1975; Rathbun, 1976; Kingdon,
Etephaniaias rajescens	Elephane sinew		, , , , , , , , , , , , , , , , , , , ,
		(1)	1974a

Reviews + other data papers:

Supplementary Materials for

The Evolution of Social Monogamy in Mammals

D. Lukas* and T. H. Clutton-Brock

*Corresponding author. E-mail: dl384@cam.ac.uk

Published 29 July 2013 on Science Express DOI: 10.1126/science.1238677

Species	Solitary	Social monogamy	Group living	Paternal Care	Reference
Abrocoma_bennetti	No	No	Yes	No	Ebensperger & Blumstein 2006 BE
Abrocoma_cinerea	No	No	Yes	No	Nowak 1999 Mammal Book
Abrocoma_vaccarum	Yes	No	No	No	Braun & Mares 1996 J Mamm
Abrothrix_longipilis	Yes	No	No	No	Nowak 1999 Mammal Book
Abrothrix_xanthorhinus	Yes	No	No	No	Lozada et al. 1996 Mamm Sp
Acinonyx_jubatus	Yes	No	No	No	Dalerum 2007
Acomys_airensis	No	No	Yes	No	Nowak 1999 Mammal Book
Acomys_cahirinus	No	No	Yes	No	Nowak 1999 Mammal Book

Websites:

Specific: Mammalian Species/Anage/...

General: Ecological Archives/DataOne/...

Even more general: Wikipedia etc.

Searching for primary literature:

References / Cross-references

ISI Web of Knowledge / Pubmed / Google Scholar

Searching for primary literature:

Contact authors / scientists

Compilations in **secondary** literature (reviews, encyclopedias, databases)?

Great way to get an overview, first idea, and as a final check

Original information in **primary** literature (papers, reports)?

Necessary to go through to ensure that classification fits with your definition