

Variables in the DATLife database organized by data categories

Category Variable Description

Taxonomy

Kingdom
Phylum
Class
Order
Family
Genus
Species
Infraspecies

Breed as per author, e.g. genotype in Drosophila, or breed of domestic

dogs

Author ge sp Taxon as mentioned by the author; might be a synonym to an accepted

name in the Catalogue of Life (www.catalougueoflife.org)

Common_name The common English name

References

Author All authors in Harvard style, separated by semicolon

Author_Year First author and year of publication

Reference = Author_Year

Reference_type Book; Book Section; Computer Program; Conference Proceedings; Edited

Book; Generic; Journal Article; Online Database; Report; Thesis; Web Page;

Pers Comm

Title Journal Volume Issue Pages Year

Booktitle Booktitle

ChapterChapter or section of BookEditorEditor(s) of publication

Publisher

PlacePublished

URL of a website, or the DOI of a publication



Age-specific mortality

Page page with the data in original reference

Name of table or graph with data

Column Exact name of the column/graph of data
ReferenceID internal ID of the reference record

age_mortality_pdf_ID internal ID of the pdf containing the data as published. A graph or a table. age_mortality_ID internal ID of the data, original and recalculated. See Scheuerlein et al.

(2017) for details.

 $\it age_mortality_ID_smooth \ internal\ ID\ of\ the\ data, smoothed.\ See\ Scheuerlein\ et\ al.\ (2018)\ in\ prep.\ For\ all\ (2018)\ in\ prep.\ (2018)\ in\ prep.\$

details.

derived_from_graph "TRUE" if data were digitized with special software from a graph

N Number of animals in the study

N_recaptures Number of recaptures during the study (individuals might appear more

than once)

Title Title of the data in DATLife

Type x How age was determined: See Scheuerlein et al. (2018) in prep. for details.

The following categories apply: age; age from stage; age from stage, known-age individuals; age, follow-up; known-age; known-age, estimated

age; time in captive cohort; years since first breeding

x_units The unit of x: days; weeks; months; years

Cohort Period Cohort or period data? See Scheuerlein et al. (2018) in prep. for details.

The following categories apply: cohort: period; composite

Mortality Type The type of mortality data. See Scheuerlein et al. (2018) in prep. for

details. The following categories apply: recovery; age last recorded; age structure; age structure and population growth age-specific mortality; age-specific survival; age follow-up; ages at death; cohort size; follow-up;

hunting bag; risk years and deaths; captive cohort

Source column The name in classical lifetable notation with the data used for

recalculation. See Scheuerlein et al. (2018) in prep. for details. The following categories apply: NxDx; Nxmx; mx; lx_real; lx_stand; dx_real; dx_stand; mjux; cap_Lx_real; cap_Lx_stand. Also see age-specific mortality

data.

Stage Timezero The stage where age is zero. The following categories apply: birth/hatch;

egg laying; release from cocoon; unknown; metamorphosis; eclosion; age of 2 months; age of 3 months; age of 6 months; capture;

first breeding

Age left truncation Minimum age where data are left-truncated. No mortality information is

available below that age. For details see Scheuerlein et al. (2018) in prep..

Age right censoring Maximum age where data are right-censored. No mortality information is available above that age. For details see Scheuerlein et al. (2018) in prep..

available above that agerror actains see beneathern et an (2010) in propi

Sex The following categories apply: male, female, both, unknown, na, asexual,

hermaphrodite, parthenogens

Liberty The settings where the species was studied: The following categories

apply: wild, captive, both, unknown, na

Population The location and country (as ISO alpha-3 code) of the study.



Age-specific mortality

YearStart Year when study was started
YearEnd Year when study was terminated

Comment

EmbargoDate Internal use only: Date before data cannot go online

Age-specific mortality data

See Scheuerlein et al. (2018) in prep. for details, formulas and calculations

age_mortality_ID internal ID of the data, original and recalculated.

x age

x_unitsThe unit of x: days; weeks; months; yearsLength of the interval in units of x_units

ax average x_u are a lived in the interval by those that died in the interval

cap_Nx Number of individuals alive at the start of the interval

cap DxNumber of individuals that die in the intervalmxCentral death rate per individual in the intervallx_realActual number of individuals left alive at age x

lx_stand Individuals left alive at age *x* standardized to 1

 dx_real Actual number of individuals dying between ages x and x+n

 dx_stand Individuals dying between ages x and x+n. The sum of all dx_stand is 1.

px Probability that an individual alive at age x dies before age x+n qx Probability that an individual alive at age x survives until age x+n

mjux Hazard or death-rate of individuals in the interval

 cap_Lx_real individual-years lived between ages x and x+n; = recorded age structure

cap_Lx_stand standardized cap_Lx_real. The sum of all cap_Lx_stand is 1.

ex life expectancy at age *x*

smoothed <TRUE> if data are smoothed (see Scheuerlein et al. 2017 for details),

<FALSE> if not



Age-specific fertility

Page page with the data in original reference

Name of table or graph with data

Column Exact name of the column/graph of data
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age fertility pdf ID internal ID of the pdf containing the data as published. A graph or a table. age fertility ID internal ID of the data, original and recalculated. See Scheuerlein et al.

(2017) for details.

age fertility ID smooth internal ID of the data, smoothed. See Scheuerlein et al. (2018) in prep. for

details.

derived_from_graph "TRUE" if data were digitized with special software from a graph

N Number of animals in the studyTitle Title of the data in DATLife

Type_x How age was determined: See Scheuerlein et al. (2018) in prep. for details.

The following categories apply: age; age from stage; age from stage, known-age individuals; age, follow-up; known-age; known-age, estimated

age; time in captive cohort; years since first breeding

x_units The unit of x: days; weeks; months; years

Fertility Type The category of fertility data. See Scheuerlein et al. (2018) in prep. for

details. The following categories apply:

cap_Fx (= N offspring /N mothers)

cap_Fx_bud (= N vegetative offspring / N parents)

cap_Fx_fem (= N daughters / N mothers)

cap_Fx_part (= N parthenogenetic offspring / N mothers)
cap_Rx (= N offspring reaching maturity / N mothers)
cap_Rx_fem (= N daughters reaching maturity / N mothers)

Fertility Observed The fertility actually observed. The following categories apply: births

observed; reproductive output; reproductive output daughters only; eggs;

follicles in ovary; matings observed; recruitment

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YearEnd Year when study was terminated

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Age-specific fertility data See Scheuerlein et al. (2018) in prep. for details, formulas and calculations

Age fertility ID internal ID of the data

x age

x_units The unit of x: days; weeks; months; years

Fertility fertility data

smoothed <TRUE> if data are smoothed (see Scheuerlein et al. 2017 for details),

<FALSE> if not

Stage-specific survival

ReferenceID internal ID of the reference record

Survival the probability of surviving the time given in Per N Days

Per N Days the number of days associated with Survival

Ann Survival the probability of surviving one year

Cohort Period Cohort or period data? See Scheuerlein et al. (2018) in prep. for details.

The following categories apply: cohort: period; composite

Stage stage of the lifecycle. The following categories apply: nest; adult survival

breeding season; adult survival non-breeding; adult survival unspecified;

juveniles survival unspecified; larval survival; survival from birth

metamorphosis to sexual maturity; survival from conception to birth; egg;

life expectancy at birth; pupa; subadult

Recapt Modelled was recapture probability modelled? The following categories apply: true;

false; unknown

N Number of animals in the studyN Recaptures Number of recapture events

C Hat Measure of goodness of fit in mark-recapture studies. See Scheuerlein et

al. (2018) in prep. for details

Sex The following categories apply: male, female, both, unknown, na, asexual,

hermaphrodite, parthenogens

Liberty The settings where the species was studied: The following categories

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Maximum lifespan

ReferenceID internal ID of the reference record

Max Lifespanmaximum observed (and published) lifespan of a taxon in yearsN Max LifespanN individuals with known lifespans: the one with the reported Max
Lifespan is one of them. See Scheuerlein et al. (2018) in prep. for details.

Conf N Max Lifespan confidence in the estimate of N Max Lifespan. The following categories

apply: estimated; information; unknown

Dead Alive was Max Lifespan reported from a dead or a live individual? The following

categories apply: dead; alive; unknown

Pot_Max_Lifespan The Max Lifespan that could have been potentially observed, given the

specific conditions of the study. For example, *Max_Lifespan* in a ringing study that has been going on for 25 years cannot exceed the age of 25, the

Pot_Max_Lifespan in this case

Stage Timezero The stage where age is zero. The following categories apply: birth/hatch;

egg laying; release from cocoon; unknown; metamorphosis; eclosion; age of 2 months; age of 3 months; age of 5 months; age of 6 months; capture;

first breeding

Sex The following categories apply: male, female, both, unknown, na, asexual,

hermaphrodite, parthenogens

Liberty The settings where the species was studied: The following categories

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Age maturity

ReferenceID internal ID of the reference record Maturity Age age at sexual maturity in years

Stage Timezero The stage where age is zero. The following categories apply: birth/hatch;

egg laying; release from cocoon; unknown; metamorphosis; eclosion; age of 2 months; age of 3 months; age of 6 months; capture;

first breeding

Maturity Type The following categories apply: first individual with external signs of

adulthood; age at first estrus; age at first spermatogenesis; first adult mating behavior observed; age at first pregnancy; first birth observed; age at first fatherhood; age at first oviposition; unknown; release from cocoon;

birth/hatch; egg laying; eclosion

Maturity Value The following categories apply: mean; median; minimum; maximum;

unknown

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hermaphrodite, parthenogens

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