Summary Staistic

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2024-09-16

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library(Hmisc)	
library(DataExplorer)	
library(palmerpenguins)	
library(table1)	
library(xtable)	
din <- penguins_raw	
summary(din)	
<pre>colnames(din) <- unlist(lapply(colnames(din), function(x) gsub(" ", " ",x)))</pre>	

latex describe

```
#by(din, din$studyName, summary)
latex(describe(din), file = "", caption.placement = "top", title = "Penguins_Raw dataset")
```

din 17 Variables 344 Observations

studyName	I	I I
n missing distinct 344 0 3		
Value PAL0708 PAL0809 PAL0910 Frequency 110 114 120 Proportion 0.320 0.331 0.349		
Sample_Number	.!!!!!!!!!!!!!!!!!	
n missing distinct Info Mean Gmd .05 .10 .25 .50 .7 344 0 152 1 63.15 46.35 6.15 12.00 29.00 58.00 95.2		
lowest: 1 2 3 4 5, highest: 148 149 150 151 152		
Species	I	ı
n missing distinct 344 0 3		
Value Adelie Penguin (Pygoscelis adeliae) Chinstrap penguin (Pygoscelis adeliae) Penguin (Pygoscelis adeliae) Chinstrap Pygoscelis adeliae) Chinstrap Pygoscelis Adeliae Chin	goscelis a	entarctica) 68 0.198
Value Gentoo penguin (Pygoscelis papua) Frequency 124 Proportion 0.360		
Region		_
n missing distinct value 344 0 1 Anvers		
Value Anvers Frequency 344 Proportion 1		
Island	ı	l ,
n missing distinct 344 0 3		
Value Biscoe Dream Torgersen Frequency 168 124 52 Proportion 0.488 0.360 0.151		
Stage		
n missing distinct value 344 0 1 Adult, 1 Egg Stage		
Value Adult, 1 Egg Stage Frequency 344 Proportion 1		

Individual_ID

distinct

lowest: N100A1 N100A2 N10A1 N10A2 N11A1, highest: N98A2 N99A1 N99A2 N9A1 N9A2

Clutch_Completion

n missing distinct

Value No 36 Frequency 36 308 Proportion 0.105 0.895

Date_Egg randarahimit.talahimma.iiitatinir

missing 0 Gmd .05 .10 328 2007-11-12 2007-11-16 distinct Info Mean 344 0 50 0.999 2008-11-27 .25 .50 .75 .90 .95 2007-11-28 2008-11-09 2009-11-16 2009-11-22 2009-11-26

lowest: 2007-11-09 2007-11-10 2007-11-11 2007-11-12 2007-11-13 highest: 2009-11-22 2009-11-23 2009-11-25 2009-11-27 2009-12-01

Culmen_Length_(mm)

missing distinct Info Mean Gmd 43.92 6.274 35.70 36.60 39.23 48.50 50.80

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lowest: 32.1 33.1 33.5 34 34.1, highest: 55.1 55.8 55.9 58 59.6

Culmen Depth (mm)

Mean 17.15 .05 .10 .25 .50 .75 .90 13.9 14.3 15.6 17.3 18.7 19.5 Info 1 Gmd 2.267 missing distinct

lowest: 13.1 13.2 13.3 13.4 13.5, highest: 20.7 20.8 21.1 21.2 21.5

Flipper_Length_(mm)

Info Mean Gmd .05 .10 0.999 200.9 16.03 181.0 185.0 190.0 197.0 213.0 220.9

lowest : 172 174 176 178 179, highest: 226 228 229 230 231

Body_Mass_(g)

.05 3150 .10 3300 distinct Info Mean Gmd 911.8 4202

lowest: 2700 2850 2900 2925 2975, highest: 5850 5950 6000 6050 6300

Sex

distinct missing 333

Value Frequency FEMALE 165 MALE 168 Proportion 0.495 0.505

 Δ _15_N_(o/oo):

.

distinct 330 Mean 8.733 Gmd 0.6323 .05 .10 .25 .50 .75 .90 7.897 8.047 8.300 8.652 9.172 9.491

lowest: 7.6322 7.63452 7.63884 7.68528 7.6887, highest: 9.93727 9.98044 10.0202 10.0237 10.0254

 Δ _13_C_(o/oo):

lowest : -27.0185 -26.9547 -26.8964 -26.8648 -26.8635, highest: -24.1657 -24.1026 -23.9031 -23.8902 -23.7877

Comments

missing 290 distinct

lowest : Adult not sampled. highest: No blood sample obtained.

Adult not sampled. Nest never observed with ful No delta15N data received from lab.

table1

table1(~.-Date_Egg-Individual_ID-Sample_Number|studyName, data=din)

	PAL0708	PAL0809	PAL0910	Overall
	(N=110)	(N=114)	(N=120)	(N=344)
Species Adelie Penguin (Pygoscelis adeliae)	50 (45.5%)	50 (43.9%)	52 (43.3%)	152 (44.2%)
Chinstrap penguin (Pygoscelis antarctica)	26 (23.6%)	18 (15.8%)	24 (20.0%)	68 (19.8%)
Gentoo penguin (Pygoscelis papua)	34 (30.9%)	46 (40.4%)	44 (36.7%)	124 (36.0%)

	PAL0708	PAL0809	PAL0910	Overall
Region				_
Anvers	110 (100%)	114 (100%)	120 (100%)	344 (100%)
Island	(10070)	(10076)	(10076)	(10076)
Biscoe	44 (40.0%)	64 (56.1%)	60 (50.0%)	168
Dream	46 (41.8%)	34 (29.8%)	44 (36.7%)	(48.8%) 124
Diedin	,	,	,	(36.0%)
Torgersen	20 (18.2%)	16 (14.0%)	16 (13.3%)	52 (15.1%)
Stage Adult, 1 Egg Stage	110	114	120	344
	(100%)	(100%)	(100%)	(100%)
Clutch_Completion No	16 (14.5%)	10 (8.8%)	10 (8.3%)	36 (10.5%)
Yes	94 (85.5%)	104	110	308
Culman Langth (mass)		(91.2%)	(91.7%)	(89.5%)
Culmen_Length_(mm) Mean (SD)	43.7 (5.39)	43.5 (5.34)	44.5 (5.64)	43.9 (5.46)
Median [Min, Max]	44.1 [34.1,	43.9 [33.1,	44.9 [32.1,	44.5 [32.1,
Missing	59.6] 1 (0.9%)	54.3] 0 (0%)	55.9] 1 (0.8%)	59.6] 2 (0.6%)
Culmen_Depth_(mm)	1 (0.570)	0 (070)	1 (0.070)	2 (0.070)
Mean (SD)	17.4 (2.15)	16.9 (1.98)	17.1 (1.79)	17.2 (1.97)
Median [Min, Max]	17.9 [13.1, 21.5]	17.0 [13.3, 21.1]	17.1 [13.7, 20.7]	17.3 [13.1, 21.5]
Missing	1 (0.9%)	0 (0%)	1 (0.8%)	2 (0.6%)
Flipper_Length_(mm) Mean (SD)	197 (13.9)	203 (13.9)	203 (13.7)	201 (14.1)
Median [Min, Max]	197 (13.9) 195 [172,	203 (13.9)	199 [176,	197 [172,
	230]	231]	230]	231]
Missing Body_Mass_(g)	1 (0.9%)	0 (0%)	1 (0.8%)	2 (0.6%)
Mean (SD)	4120 (793)		4210 (823)	4200 (802)
Median [Min, Max]	3900 [2900,	4200 [2700,	4000 [2900,	4050
	[2900, 6300]	[2700, 6000]	[2900, 6000]	[2700, 6300]
Missing	1 (0.9%)	0 (0%)	1 (0.8%)	2 (0.6%)
Sex FEMALE	51 (46.4%)	56 (49.1%)	58 (48.3%)	165
	31 (10.170)	33 (13.170)	33 (10.370)	(48.0%)

	PAL0708	PAL0809	PAL0910	Overall
MALE	52 (47.3%)	57 (50.0%)	59 (49.2%)	168 (48.8%)
Missing Delta_15_N_(o/oo)	7 (6.4%)	1 (0.9%)	3 (2.5%)	11 (3.2%)
Mean (SD)	8.70 (0.634)	8.64 (0.464)	8.85 (0.539)	8.73 (0.552)
Median [Min, Max]	8.73 [7.63, 10.0]	8.56 [7.70, 10.0]	8.87 [7.89, 9.98]	8.65 [7.63, 10.0]
Missing Delta_13_C_(o/oo)	12 (10.9%)	0 (0%)	2 (1.7%)	14 (4.1%)
Mean (SD)	-25.1 (0.400)	-26.2 (0.765)	-25.7 (0.719)	-25.7 (0.794)
Median [Min, Max]	-25.1 [-25.7,	-26.5 [-27.0,	-26.0 [-26.8,	-25.8 [-27.0,
Missing Comments	-24.1] 12 (10.9%)	-23.9] 0 (0%)	-23.8] 1 (0.8%)	-23.8] 13 (3.8%)
Adult not sampled.	1 (0.9%)	0 (0%)	0 (0%)	1 (0.3%)
Nest never observed with full clutch.	15 (13.6%)	10 (8.8%)	9 (7.5%)	34 (9.9%)
Nest never observed with full clutch. Not enough blood for isotopes.	1 (0.9%)	0 (0%)	0 (0%)	1 (0.3%)
No blood sample obtained for sexing.	2 (1.8%)	0 (0%)	0 (0%)	2 (0.6%)
No blood sample obtained. Not enough blood for isotopes. Sexing primers did not amplify. Sexing primers did not amplify.	2 (1.8%) 7 (6.4%) 1 (0.9%) 1 (0.9%)	0 (0%) 0 (0%) 1 (0.9%) 0 (0%)	0 (0%) 0 (0%) 2 (1.7%) 0 (0%)	2 (0.6%) 7 (2.0%) 4 (1.2%) 1 (0.3%)
Not enough blood for isotopes. Adult not sampled. Nest never	0 (0%)	0 (0%)	1 (0.8%)	1 (0.3%)
observed with full clutch.				
No delta15N data received from lab.	0 (0%)	0 (0%)	1 (0.8%)	1 (0.3%)
Missing	80 (72.7%)	103 (90.4%)	107 (89.2%)	290 (84.3%)

DataExplorer plot_missing

DataExplorer::plot_missing(din)

