# **Summary Staistic**

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### 2024-09-16

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library(Hmisc)
library(DataExplorer)
library(palmerpenguins)
library(table1)
library(xtable)
<pre>din &lt;- penguins_raw</pre>
<pre>summary(din)</pre>
<pre>colnames(din) &lt;- 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

1 1 studyName missing 0 distinct Value PAL0708 PAL0809 PAL0910 Frequency 110 114 120 Proportion 0.320 0.331 0.349 Sample\_Number distinct 152 missing 0 Info 1 Gmd 46.35 .05 6.15 Mean 63.15 .10 12.00 .25 29.00 .50 58.00 .75 95.25 .90 121.00 lowest: 1 2 3 4 5, highest: 148 149 150 151 152 **Species** 1 distinct 3 missing 0 344 Value Adelie Penguin (Pygoscelis adeliae) Chinstrap penguin (Pygoscelis antarctica) Frequency Proportion 152 0.442 0.198 Value Gentoo penguin (Pygoscelis papua) Frequency 0.360 Proportion Region n missing 44 0 distinct value Anvers Value Frequency Proportion Island missing 0 distinct 3 n 344 Dream Torgersen Value Biscoe 168 124 Frequency 52 Proportion 0.488 0.360 Stage missing 0 distinct

Adult, 1 Egg Stage

Adult, 1 Egg Stage

344

Value Frequency Proportion 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 Proportion 0.495 0.505

 $\Delta$ \_15\_N\_(o/oo):

. . . . . . . . . .

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

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

 $\Delta$ \_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
Species	(N=110)	(N=114)	(N=120)	(N=344)
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) Region	34 (30.9%)	46 (40.4%)	44 (36.7%)	124 (36.0%)

_	PAL0708	PAL0809	PAL0910	Overall
Anvers	110 (100%)	114 (100%)	120 (100%)	344 (100%)
Island Biscoe	44 (40.0%)	64 (56.1%)	60 (50.0%)	168 (48.8%)
Dream	46 (41.8%)	34 (29.8%)	44 (36.7%)	124 (36.0%)
Torgersen Stage	20 (18.2%)	16 (14.0%)	16 (13.3%)	52 (15.1%)
Adult, 1 Egg Stage	110 (100%)	114 (100%)	120 (100%)	344 (100%)
Clutch_Completion No Yes	16 (14.5%) 94 (85.5%)	10 (8.8%) 104 (91.2%)	10 (8.3%) 110 (91.7%)	36 (10.5%) 308 (89.5%)
Culmen_Length_(mm) Mean (SD) Median [Min, Max] Missing	43.7 (5.39) 44.1 [34.1, 59.6] 1 (0.9%)	43.5 (5.34) 43.9 [33.1, 54.3] 0 (0%)	44.5 (5.64) 44.9 [32.1, 55.9] 1 (0.8%)	43.9 (5.46) 44.5 [32.1, 59.6] 2 (0.6%)
Culmen_Depth_(mm) Mean (SD) Median [Min, Max] Missing	17.4 (2.15) 17.9 [13.1, 21.5] 1 (0.9%)	16.9 (1.98) 17.0 [13.3, 21.1] 0 (0%)	17.1 (1.79) 17.1 [13.7, 20.7] 1 (0.8%)	17.2 (1.97) 17.3 [13.1, 21.5] 2 (0.6%)
Flipper_Length_(mm) Mean (SD) Median [Min, Max]  Missing Body_Mass_(g) Mean (SD) Median [Min, Max]  Missing	197 (13.9) 195 [172, 230] 1 (0.9%)	203 (13.9) 200 [178, 231] 0 (0%)	203 (13.7) 199 [176, 230] 1 (0.8%)	201 (14.1) 197 [172, 231] 2 (0.6%)
	4120 (793) 3900 [2900, 6300] 1 (0.9%)	4270 (789) 4200 [2700, 6000] 0 (0%)	4210 (823) 4000 [2900, 6000] 1 (0.8%)	4200 (802) 4050 [2700, 6300] 2 (0.6%)
Sex FEMALE	51 (46.4%)	56 (49.1%)	58 (48.3%)	165 (48.0%)
MALE	52 (47.3%)	57 (50.0%)	59 (49.2%)	168 (48.8%)

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

# DataExplorer plot\_missing

### DataExplorer::plot\_missing(din)

