

Model	AIC	CVI
<b>Culmen + Tarsus</b>	<b>64.684</b>	<b>65.909</b>
Culmen + Toe	64.823	67.242
Culmen + Tarsus + Toe	65.543	68.301
Mass + Culmen + Tarsus	66.615	67.555
Culmen + Tarsus + Age	66.624	68.166
Culmen + Toe + Age	66.792	69.510
Mass + Culmen + Toe	66.805	69.116
Culmen + Tarsus + Toe + Age	67.509	70.807
Mass + Culmen + Tarsus + Toe	67.524	70.206
Mass + Culmen + Tarsus + Age	68.521	70.074
Mass + Culmen + Toe + Age	68.782	71.648
Mass + Culmen + Tarsus + Toe + Age	69.478	73.035
Culmen	73.211	74.139
Mass + Culmen	74.878	75.783
Culmen + Age	75.040	76.026
Mass + Culmen + Age	76.815	77.865
Tarsus + Toe	96.270	96.895
Mass + Tarsus + Toe	96.383	97.579
Mass + Tarsus + Toe + Age	98.067	99.792
Tarsus + Toe + Age	98.187	99.251
Tarsus	98.943	99.420
Mass + Tarsus	99.120	100.316
Mass + Toe	100.084	101.584
Mass + Tarsus + Age	100.882	102.719
Tarsus + Age	100.922	101.804
Toe	101.352	102.206

Mass + Toe + Age	101.893	103.691
Toe + Age	103.341	104.442
Mass	138.776	140.318
Mass + Age	140.682	142.175
Null Model	151.683	151.711
Age	153.319	153.436

Table A1.1. Full Model selection results of logistic regression models predicting the sex of Soras (*Porzana carolina*). Models were constructed from data collected from 108 birds live trapped at Jug Bay, Maryland in 2018. Models were validated from a set of birds exhibiting intermediate morphological traits that were live trapped in 2020.

	2018 Soras					
	AHY		HY		All ages	
	Male	Female	Male	Female	Male	Female
	<i>n</i> = 26	<i>n</i> = 22	<i>n</i> = 29	<i>n</i> = 31	<i>n</i> = 55	<i>n</i> = 53
Culmen	20.89 ± 0.93 (19.5–23.4)	19.20 ± 0.60 (18.1–20.1)	20.77 ± 0.86 (19.6–23.2)	19.17 ± 0.87 (17.1–21.4)	20.83 ± 0.89 (19.5–23.4)	19.18 ± 0.77 (17.1–21.4)
Tarsus	34.36 ± 1.44 (30.5–36.3)	32.49 ± 1.15 (30.1–34.5)	34.34 ± 1.33 (32.1–37.3)	32.22 ± 0.96 (30.6–34.1)	34.35 ± 1.37 (30.5–37.3)	32.33 ± 1.04 (30.1–34.5)
Toe	36.04 ± 1.56 (31.4–38.8)	33.81 ± 1.23 (31.0–35.6)	35.82 ± 1.53 (32.7–39.0)	33.70 ± 1.25 (31.0–35.8)	35.93 ± 1.53 (31.4–39.0)	33.75 ± 1.23 (31.0–35.8)
Mass	73.81 ± 9.87 (60–105)	68.32 ± 11.09 (56–95)	70.24 ± 7.83 (55–91)	62.94 ± 6.82 (50–78)	71.93 ± 8.95 (55–105)	65.17 ± 9.14 (50–95)

Table A1.2. Mean +/- 1 standard deviation and range (in parenthesis) of Sora (*Porzana carolina*) morphometric measurements (mm) and mass (g) for 2018 samples.