

ADULT BALD EAGLE MEASUREMENTS

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Measurements as reported in peer-reviewed publications. References are given below.

All measurements are from live birds unless otherwise indicated.

Measurements are given in metric units, converted from traditional where necessary. Conversions can be made at [this link](#). Decimals are rounded off to the nearest 10th.

Where more than one eagle was measured, first number is the mean average (where available), range of measurements is given (where available) in parentheses.

A number centered across Female and Male columns indicates bird of undetermined sex.

N=number of birds examined.

Arranged by region from north to south.

	WEIGHT ¹		LENGTH		BILL DEPTH		BILL WIDTH		CULMEN LENGTH		FOOT PAD LENGTH		TARSUS WIDTH		TARSUS LENGTH		MID-TOE LENGTH		HALLUX TALON		8 TH PRIMARY		CENTRAL RECTRIX		1 ST SECONDARY		WING CHORD		WINGSPAN	
REGION (Reference)	Female	Male	Female	Male	Female	Male			Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Alaska (Sitka) (Baird et al. 1874) ²									55.9 N=1	50.8 N=1													317.5 N=1	317.5 N=1			635 N=1	622.3 N=1		
Alaska (Bent 1937) ³																														
Alaska (Imler et al. 1955) ⁴	5244 (4585-6391) N=37	4123 (3633-4813) N=35	911.4 (869-960) N=37	843 (794-883) N=35																			304 (282-325) N=37	289.8 (274-302) N=35			625.1 (590-655) N=37	585.7 (550-612) N=35	2244.3 (2159-2333.5) N=37	2103.9 (2051-2171.7) N=35
Alaska (Chura et al. 1967)		4853 (4218-5625) N=7																												
Alaska, Canada, & North U.S. (Bortolotti 1984c) ⁵					36.9 (34.5-39.2) N=12	32.2 (29.6-34.6) N=18	33.3 (30.5-35.9) N=14	29.5 (24.7-34.9) N=20	57.2 (53.8-59.9) N=14	50.8 (47.8-53.3) N=21			16.6 (15.4-20.3) N=14	14.4 (12.8-15.9) N=21					45.7 (41.2-48.6) N=13	39.8 (37.7-41.8) N=20	452.1 (430-472) N=13	407.3 (374-437) N=21	288.6 (247-308) N=14	254.7 (236-274) N=20	369.3 (342-394) N=14	325.9 (307-356) N=18	629.3 (592-664) N=14	569.9 (541-589) N=21		
Alaska, North & Central U.S. (Friedmann 1950) ⁶									54.1 (47-58) N=42	52.5 (49-57) N=29					101.9 (83-110) N=42	99.8 (84.5-106) N=29	74.5 (70-82) N=42	70.4 (67-74) N=29					339.4 (300-365) N=42	309.7 (290-322) N=29			640.2 (605-685) N=29	588.6 (570-612) N=29		
Saskatchewan (Gerrard et al. 1992)	4540 N=1	3920 N=1			33.2 N=1	35.6 N=1			55 N=1	49.4 N=1	136.9 N=1	131.3 N=1	16.5 N=1	13.3 N=1													603 N=1	568 N=1	2110 N=1	2070 N=1
New Brunswick (Wright 1953)	6350 N=1																												2133.6 N=1	
Ontario (Bortolotti 1984c) ⁷																							260 N=1							
New York & New England (Bent 1937) ⁸																											645.2 N=10	592.6 N=6		
New York (Palmer 1988)	6577 N=1		876.3 N=1																										2133.6 N=1	
Pennsylvania (Baird 1874) ⁹						33.0 N=1			55.9 N=1	48.3 N=1					78.7 N=1	76.2 N=1	72.4 N=1	66 N=1	33 N=1				323.9 N=1	266.7 N=1			635 N=1	558.8 N=1		
North Carolina (Bent 1937) ¹⁰																											624.8 N=5	596.9 N=2		
Illinois (Southern 1964) ¹¹	6146 (5715-6577) N=2														102.5 (89-116) N=2								324 (318-330) N=2				621.5 (620-623) N=2	590 N=1	2080 (2035-2125) N=2	
Alabama (Maestrelli et al. 1975)															99 N=1		70 N=1						271 N=1				568 N=1			
Georgia & Florida (Bent 1937) ¹²																											575.3 N=5	529 N=9		
South U.S. (Friedmann 1950) ¹³										49.8 (49-52) ¹⁴ N=29					103 (101-107) N=11	96 (95-97) N=16	71.8 (66-77) N=11	61.5 (60-63) N=16					271.2 (247-286) N=11	248.5 (232-264) N=16			576.5 (548-588) N=11	529.2 (515-545) N=16		
Unspecified (Baird 1874) ¹⁵									48.3-55.9 N=7	47-50.8 N=10					86.4-91.4 N=7	67.3-86.4 N=10	64.8-71.1 N=7	59.7-67.3 N=10					317.5-342.9 N=7	279.4-330.2 N=10			596.9-635 N=7	508-584.2 N=10		
Unspecified (Feather Atlas)																					365.1 N=1				255 N=1					

¹ Whether stomach and crop contents are included in weight is unknown unless indicated.

² Museum specimens.

³ Sources of measurements unspecified.

⁴ Museum specimens.

⁵ Museum specimens from AK, CN, and northern U.S. Includes measurements for chord of bill from tip to gape: female 79.7 (74.1-83.8) N=13, male 72.6 (67.2-79.3) N=18.

⁶ Females from AK, NT, NB, ME, MA, NY, PA, VA, IA, NC). Males from AK, MA, NY, PA, VA, AR, IA, NC.

⁷ Captive, 5th winter.

⁸ Sources of measurements unspecified.

⁹ Museum specimens.

¹⁰ Sources of measurements unspecified.

¹¹ "The sexes were determined by cloacal examination and are questionable."

¹² Sources of measurements unspecified.

¹³ Museum specimens. Females from GA, FL, LA, Baja CA. Males from GA, FL, Baja CA.

¹⁴ Friedmann reports 32.7 (30-35) for female exposed culmen, which is too small to be accurate. More likely would be 52.7 (50-55).

¹⁵ Museum specimens.

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