

Table S2. Comparison of macro- and trace-mineral dry matter composition of whole homogenized egg contents collected from wild prairie-chicken populations: Attwater's (*Tympanuchus cupido attwateri*; APC; Colorado and Goliad counties, Texas), Nebraska greater (*T. c. pinnatus*; GPC – NE; Rock County), and Minnesota greater (GPC – MN; Norman and Clay counties), with captive APC eggs from Fossil Rim Wildlife Center and the Houston Zoo, Inc. during 2008–2014. Data are from Table 3 supplemented with sample sizes, ranges, and test statistics.

Nutrient	Group	<i>n</i>	Median	IQR <sup>a</sup>	<i>W</i> <sup>b</sup>	<i>P</i> <sup>b</sup>
Ca (%)	Wild	118	0.24	0.04		
	Captive	64	0.25	0.05	3781	0.99
P (%)	Wild	118	0.93	0.13		
	Captive	64	0.94	0.13	3687.5	0.80
Mg (%)	Wild	118	0.04	0.01		
	Captive	64	0.03	0.00	5600	<0.001
K (%)	Wild	118	0.50	0.11		
	Captive	64	0.48	0.10	4174	0.24
Na (%)	Wild	118	0.43	0.07		
	Captive	64	0.45	0.06	3129.5	0.06
Fe (ppm)	Wild	118	105	26		
	Captive	64	117	36	3129.5	0.06
Cu (ppm)	Wild	118	3	0		
	Captive 2008–2010	25	3	1	1558	0.61
	Captive 2011–2014 <sup>c</sup>	39	4	2	1351.5	<0.001
Zn (ppm)	Wild	118	58	11		
	Captive	64	53	13	5013	<0.001
Mn (ppm)	Wild	118	2	2		
	Captive	64	0	1	6281	<0.001
	Captive 2010 <sup>d</sup>	4	1	0	340	0.12
Se (ppm)	Wild <sup>e</sup>	11	2.79	0.86		
	Captive <sup>e</sup>	16	3.35	1.03	54.5	0.10
Dry Matter (%)	Wild	72	29.2	1.4		
	Captive	38	31.0	1.7	531.5	<0.001

<sup>a</sup>Interquartile range

<sup>b</sup>Wilcoxon test (2-tailed) of stochastic dominance.

<sup>c</sup>Dietary Cu was increased from 13–14 to 21–23 mg kg<sup>-1</sup> beginning in 2011.

<sup>d</sup>Dietary Mn was increased from 140–225 mg kg<sup>-1</sup> in 2010.

<sup>e</sup>Selenium levels were assessed only in 2013