Table S1. Macro- and trace-mineral dry matter composition of whole homogenized egg contents collected from three 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), 2008–2014. Data are from Table 2 supplemented with sample sizes, ranges, and test statistics.

Nutrient	Population	n	Median	IQR[a]	Range	KW χ_2^{2b}	*P*	Dunn's test[c]
Ca (%)	APC	55	0.25	0.06	0.17–0.37	2.2	0.33	A
	GPC - NE	21	0.24	0.20	0.19–0.27			A
	GPC – MN	42	0.23	0.04	0.20–0.60			A
P (%)	APC	55	0.96	0.11	0.63–1.15	29.6	<0.001	A
	GPC - NE	21	0.99	0.09	0.91–1.11			A
	GPC – MN	42	0.78	0.14	0.60–1.07			B
Mg (%)	APC	55	0.04	0.01	0.03–0.05	11.8	<0.001	A
	GPC - NE	21	0.04	0.01	0.04–0.06			B
	GPC – MN	42	0.03	0.02	0.03–0.07			A
K (%)	APC	55	0.53	0.12	0.37–0.71	10.3	0.01	A

	GPC – NE	21	0.51	0.06	0.44–0.64			AB
	GPC – MN	42	0.47	0.09	0.37–0.62			B
Na (%)	APC	55	0.44	0.07	0.36–0.54	13.6	<0.001	AB
	GPC – NE	21	0.46	0.05	0.40–0.54			A
	GPC – MN	42	0.40	0.08	0.32–0.53			B
Fe (ppm)	APC	55	103	24	67–449	9.8	0.01	AB
	GPC – NE	21	99	22	72–152			A
	GPC – MN	42	112	30	80–247			B
Cu (ppm)	APC	55	3	0	0–5	44.5	<0.001	A
	GPC – NE	21	4	1	3–5			B
	GPC – MN	42	3	0	0–3			A
Zn (ppm)	APC	55	59	12	43–71	13.1	<0.001	AB
	GPC – NE	21	64	10	43–75			A
	GPC – MN	42	57	11	40–77			B
Mn (ppm)	APC	55	2	2	0–4	0.8	0.67	A

	GPC – NE	21	2	0	1–4			A
	GPC – MN	42	2	3	0–3			A
Se (ppm)[d]	APC	6	2.48	0.36	1.73–2.88	6.5	0.01	A
	APC – NE	5	3.59	0.61	2.79–3.81			B
	APC – MN	0	-	-	-			-
Dry Matter (%)	APC	39	29.1	1.0	26.5–32.1	4.7	0.1	A
	GPC – NE	21	28.7	2.1	26.9–31.7			A
	GPC – MN	12	28.0	2.1	25.8–31.0			A

[a]Interquartile range

[b]Kruskal-Wallis χ^2 adjusted for ties

[c]Results of Dunn's multiple comparison test of population stochastic dominance for a given parameter. Populations sharing letters were not different ($|z|>1.96$, 2-tailed $P>0.05$). Family-wise error rate was controlled using a Bonferroni adjustment.

[d]Selenium levels were assessed only in 2013.