Table S3. Fatty acid profiles (% of total) of homogenized whole eggs collected from three wild prairie-chicken populations: Attwater's (Tympanuchus cupido attwateri; APC; Colorado and Goliad counties, Texas; n = 30), Nebraska greater (T. c. pinnatus; GPC – NE; Rock County; n = 16), and Minnesota greater (GPC – MN; Norman and Clay counties; n = 8), 2010–2014. Data are from Table 2 supplemented with ranges and test statistics.

Fatty acid	Population	Median	IQR[a]	Range	KW χ_2^{2b}	*P*	Dunn's test[c]
14:0 Myristic	APC	0.50	0.30	0.34–1.49	2.7	0.26	A
	GPC - NE	0.48	0.13	0.36–0.59			A
	GPC – MN	0.44	0.10	0.35–0.54			A
15:0 Pentadecanoic	APC	0.19	0.03	0.14–0.25	22.5	<0.001	A
	GPC - NE	0.14	0.09	0.00–0.21			B
	GPC – MN	0.08	0.07	0.00–0.16			B
16:0 Palmitic	APC	23.2	2.0	21.7–27.0	11.8	<0.001	A
	GPC - NE	24.4	2.4	22.0–30.2			AB
	GPC – MN	26.2	2.6	20.9–29.2			B
16:1n-7 Palmitoleic	APC	2.49	0.73	1.77–3.46	6.9	0.03	A
	GPC – NE	2.88	1.21	2.37–5.27			B
	GPC – MN	2.37	1.06	0.92–5.48			AB
17:0 Margaric	APC	0.54	0.16	0.41–0.96	16.8	<0.001	A
	GPC – NE	0.46	0.18	0.22–0.61			B
	GPC – MN	0.42	0.12	0.18–0.62			B
18:0 Stearic	APC	9.78	0.56	8.05–10.50	14.4	<0.001	A
	GPC – NE	8.76	0.86	8.07–10.40			B
	GPC – MN	8.70	0.16	8.26–10.40			AB
18:1n-7C Vaccenic	APC	1.19	0.26	0.92–1.70	13.2	<0.001	A
	GPC – NE	1.37	0.37	1.04–2.02			B
	GPC – MN	1.38	0.35	1.11–2.36			B
18:1n-9C Oleic	APC	26.6	3.2	22.1–30.3	12.7	<0.001	A
	GPC – NE	29.5	5.7	24.4–38.9			B
	GPC – MN	30.5	6.1	23.7–35.6			AB
18:1n-9T Elaidic	APC	0.11	0.03	<0.10–0.19	0.9	0.62	A
	GPC – NE	0.06	0.12	<0.10–0.21			A
	GPC – MN	0.11	0.07	<0.10–0.19			A
18:2n-6 Linoleic	APC	14.6	3.0	12.0–23.4	7.0	0.03	AB

	APC – NE	14.2	3.9	8.5–16.5			A
	APC – MN	18.0	4.0	11.1–27.7			B
18:3n-3 Linolenic	APC	15.80	3.20	10.10-22.30	22.3	<0.001	A
	GPC – NE	13.30	7.13	3.06–16.10			B
	GPC – MN	6.66	2.56	2.07–12.10			B
20:1n-11 Eicosenoic	APC	0.14	0.06	<0.10–0.22	2.6	0.27	A
	GPC – NE	0.18	0.20	<0.10–0.28			A
	GPC – MN	0.11	0.04	<0.10–0.18			A
20:3n-3 Eicosatrienoic	APC	0.24	0.08	0.14–0.39	17.4	<0.001	A
	GPC – NE	0.24	0.15	<0.10–0.35			A
	GPC – MN	<0.10	0.10	<0.10–0.17			B
20:3n-6 Homo-gamma-linolenic	APC	0.11	0.11	<0.10–0.14	1.8	0.40	A
	GPC – NE	0.11	0.05	<0.10–0.19			A
	GPC – MN	0.10	0.02	<0.10–0.17			A
20:4n-6 Arachidonic	APC	0.44	0.16	0.28–0.72	26.2	<0.001	A
	GPC – NE	0.66	0.16	0.36–0.92			B
	GPC – MN	0.96	0.25	0.60–1.38			B
20:5n-3 Eicosapentaenoic	APC	0.43	0.13	0.23–0.68	19.0	<0.001	A
	GPC – NE	0.37	0.09	0.22–0.52			A
	GPC – MN	0.22	0.08	0.10–0.34			B
22:5n-3 Docosapentaenoic	APC	0.29	0.06	0.19–0.47	9.8	0.01	A
	GPC – NE	0.24	0.08	0.17–0.34			AB
	GPC – MN	0.20	0.10	0.13–0.29			B
22:6n-3 Docosahexaenoic	APC	1.00	0.11	0.73–1.23	0.7	0.70	A
	GPC – NE	1.04	0.30	0.74–1.39			A
	GPC – MN	1.00	0.20	0.72–1.20			A
Total fat (g/100 g)	APC	14.0	1.6	11.8–15.9	4.7	0.09	A
	GPC – NE	12.8	1.8	11.8–15.1			A
	GPC – MN	14.0	1.8	11.5–16.6			A
Monounsaturated fat (g/100 g)	APC	4.0	0.5	3.8–4.8	3.4	0.18	A
	GPC - NE	4.2	1.0	4.0–6.6			A
	GPC - MN	4.7	0.6	3.8–6.9			A
Polyunsaturated fat (g/100 g)	APC	4.6	0.9	3.0–5.2	12.6	<0.001	A

	GPC - NE	3.7	1.2	1.9–4.7			B
	GPC - MN	3.7	0.6	2.6–4.9			AB
Total saturated fat (g/100 g)	APC	4.6	0.4	3.8–5.5	3.4	0.18	A
	GPC – NE	4.2	0.7	3.7–5.7			A
	GPC – MN	4.7	0.8	3.8–6.2			A
Total n-3	APC	18.0	3.3	11.6–24.4	22.0	<0.001	A
	GPC – NE	15.3	7.3	4.4–18.4			B
	GPC – MN	8.1	2.6	3.2–13.8			B
Total n-6	APC	15.2	3.3	12.4–17.1	7.7	0.02	AB
	GPC – NE	15.0	4.2	9.4–16.7			A
	GPC - MN	18.9	4.4	12.3–21.8			B
n-6:n-3	APC	0.9	0.3	0.6–1.8	22.6	<0.001	A
	GPC – NE	1.0	0.4	0.8–2.2			A
	GPC - MN	3.0	1.4	1.3–5.0			B

[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.