

Supplementary Table. 4. Analysis of the differences in Ca between the categories with a confidence interval of 95% ($\alpha = 0.05$). Pr values < 0.05 indicate the samples are statistically different and Pr values ≥ 0.05 indicate the samples are statistically not different (marked in red)

Contrast	Difference	Standardized difference	Critical value	Pr > Diff	Significant
Trenton vs Mesaverde	26559.17	19.27	2.97	<0.001	Yes
Trenton vs Wilcox	25494.16	20.58	2.97	<0.001	Yes
Trenton vs Lance	24875.58	14.18	2.97	<0.001	Yes
Trenton vs Marcellus	15085.26	12.84	2.97	<0.001	Yes
Trenton vs Edwards	14882.32	11.84	2.97	<0.001	Yes
Trenton vs Bakken	12705.08	6.05	2.97	<0.001	Yes
Bakken vs Mesaverde	13854.10	6.54	2.97	<0.001	Yes
Bakken vs Wilcox	12789.08	6.30	2.97	<0.001	Yes
Bakken vs Lance	12170.50	5.11	2.97	<0.001	Yes
Bakken vs Marcellus	2380.18	1.19	2.97	0.90	No
Bakken vs Edwards	2177.25	1.07	2.97	0.94	No
Edwards vs Mesaverde	11676.85	9.07	2.97	<0.001	Yes
Edwards vs Wilcox	10611.84	9.33	2.97	<0.001	Yes
Edwards vs Lance	9993.25	5.93	2.97	<0.001	Yes
Edwards vs Marcellus	202.93	0.19	2.97	1.00	No
Marcellus vs Mesaverde	11473.92	9.50	2.97	<0.001	Yes
Marcellus vs Wilcox	10408.90	9.96	2.97	<0.001	Yes
Marcellus vs Lance	9790.32	6.03	2.97	<0.001	Yes
Lance vs Mesaverde	1683.60	0.95	2.97	0.96	No
Lance vs Wilcox	618.58	0.37	2.97	1.00	No
Wilcox vs Mesaverde	1065.02	0.84	2.97	0.98	No
Tukey's d critical value:			4.19		