

Supplementary Table. 3: Analysis of the differences in CI 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
Bakken vs Mesaverde	162790.43	15.72	2.97	<0.001	Yes
Bakken vs Lance	159050.45	13.79	2.97	<0.001	Yes
Bakken vs Wilcox	143728.21	14.55	2.97	<0.001	Yes
Bakken vs Marcellus	85534.60	8.75	2.97	<0.001	Yes
Bakken vs Edwards	81803.22	8.19	2.97	<0.001	Yes
Bakken vs Trenton	31776.50	3.10	2.97	0.03	Yes
Trenton vs Mesaverde	131013.93	20.00	2.97	<0.001	Yes
Trenton vs Lance	127273.95	15.36	2.97	<0.001	Yes
Trenton vs Wilcox	111951.71	19.44	2.97	<0.001	Yes
Trenton vs Marcellus	53758.10	9.64	2.97	<0.001	Yes
Trenton vs Edwards	50026.72	8.40	2.97	<0.001	Yes
Edwards vs Mesaverde	80987.22	13.18	2.97	<0.001	Yes
Edwards vs Lance	77247.24	9.69	2.97	<0.001	Yes
Edwards vs Wilcox	61924.99	11.70	2.97	<0.001	Yes
Edwards vs Marcellus	3731.38	0.73	2.97	0.99	No
Marcellus vs Mesaverde	77255.83	13.37	2.97	<0.001	Yes
Marcellus vs Lance	73515.85	9.56	2.97	<0.001	Yes
Marcellus vs Wilcox	58193.61	11.96	2.97	<0.001	Yes
Wilcox vs Mesaverde	19062.22	3.20	2.97	0.02	Yes
Wilcox vs Lance	15322.24	1.96	2.97	0.44	No
Lance vs Mesaverde	3739.98	0.44	2.97	0.999	No
Tukey's d critical value:			4.19		