

Supplementary Table. 1: Analysis of the differences in TDS between the categories with a confidence interval of 95%. Pr values < 0.05 indicate the samples are statistically different, and Pr values \geq 0.05 indicate the samples are statistically not different (marked in red)

Contrast	Difference	Standardized difference	Critical value	Pr > Diff	Significant
Bakken vs Mesaverde	266207.21	15.66	2.96	<0.001	Yes
Bakken vs Lance	264221.54	13.92	2.96	<0.001	Yes
Bakken vs Wilcox	237635.95	14.62	2.96	<0.001	Yes
Bakken vs Marcellus	141883.71	8.84	2.96	<0.001	Yes
Bakken vs Edwards	135798.99	8.26	2.96	<0.001	Yes
Bakken vs Trenton	60322.58	3.58	2.96	0.01	Yes
Trenton vs Mesaverde	205884.63	19.21	2.96	<0.001	Yes
Trenton vs Lance	203898.95	14.95	2.96	<0.001	Yes
Trenton vs Wilcox	177313.37	18.71	2.96	<0.001	Yes
Trenton vs Marcellus	81561.12	8.93	2.96	<0.001	Yes
Trenton vs Edwards	75476.40	7.70	2.96	<0.001	Yes
Edwards vs Mesaverde	130408.23	12.98	2.96	<0.001	Yes
Edwards vs Lance	128422.55	9.79	2.96	<0.001	Yes
Edwards vs Wilcox	101836.96	11.69	2.96	<0.001	Yes
Edwards vs Marcellus	6084.72	0.73	2.96	0.99	No
Marcellus vs Mesaverde	124323.51	13.24	2.96	<0.001	Yes
Marcellus vs Lance	122337.83	9.69	2.96	<0.001	Yes
Marcellus vs Wilcox	95752.24	12.05	2.96	<0.001	Yes
Wilcox vs Mesaverde	28571.26	2.94	2.96	0.054	No
Wilcox vs Lance	26585.59	2.06	2.96	0.38	No
Lance vs Mesaverde	1985.68	0.14	2.96	1.00	No
Tukey's d critical value:			4.19		