

Supplementary Table S1. Comparison of CES perception frequencies across pre-pandemic, pandemic, and post-pandemic periods.

CES Category	Pre-pandemic Mean $\pm$ SD (%)	Pandemic Mean $\pm$ SD (%)	Post-pandemic Mean $\pm$ SD (%)	F (df = 2, 21)	p-value
Aesthetics	22.1 $\pm$ 5.2	21.8 $\pm$ 4.9	22.4 $\pm$ 5.5	0.12	0.887
Recreation	25.3 $\pm$ 4.1	24.9 $\pm$ 4.4	25.1 $\pm$ 3.8	0.05	0.951
Sport & Health	17.8 $\pm$ 5.8	18.2 $\pm$ 6.1	17.5 $\pm$ 5.5	0.08	0.923
Heritage & Culture	16.4 $\pm$ 7.3	15.9 $\pm$ 7.0	16.7 $\pm$ 7.5	0.11	0.896
Education	14.2 $\pm$ 6.5	13.8 $\pm$ 6.8	14.5 $\pm$ 6.3	0.07	0.932
Spiritual Fulfillment	17.1 $\pm$ 6.9	16.8 $\pm$ 7.2	17.3 $\pm$ 6.6	0.06	0.942

Note: Values represent the mean $\pm$ standard deviation of the perceived CES percentage for each category across the eight parks in each sub-period. One-way ANOVA was used to test for significant differences among periods; all *p* values were > 0.05 , indicating no systematic temporal shifts. Sub-period definitions: pre-pandemic (August 2019 – January 2020), pandemic (February 2020 – January 2023), post-pandemic (February 2023 – August 2025).