# Supplementary Materials: Evaluation of the Impact of Behavioral Opportunities on Four Zoo-Housed Aardvarks (Orycteropus afer) 

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Figure S1. Activity budget (mean $\pm$ SE) for the aardvarks $(n=4)$ by stated enrichment goal.


Table S1. Pairwise comparisons of counts of scan and continuous event data on enrichment use by stated enrichment goal by the time of night.

|  |  | PM to <br> MID | PM to <br> AM | MID to <br> AM |
| :---: | :---: | :---: | :---: | :---: |
| Foraging Enrichment |  | Scan Data | $\mathrm{t}_{6}=11.99$, | $\mathrm{t}_{6}=12.04$, |
|  | $\mathrm{t}_{664}=3.39$, |  |  |  |
|  |  | $p<0.001$ | $p=0.001$ |  |
|  | Continuous | $\mathrm{t}_{13}=8.80, p$ | $\mathrm{t}_{12}=9.10, p$ | $\mathrm{t}_{290}=4.07$, |
|  | Event Data | $<0.001$ | $<0.001$ | $p<0.001$ |
| Exploring Environment | Scan Data | $\mathrm{t}_{231}=4.85$, | $\mathrm{t}_{264}=4.70$, | $\mathrm{t}_{664}=$ |
|  |  | $p<0.001$ | $p<0.001$ | $-0.20, p=$ |
|  |  |  |  | 0.841 |
|  | Continuous | $\mathrm{t}_{58}=6.08, p$ | $\mathrm{t}_{39}=6.74, p$ | $\mathrm{t}_{664}=1.77$, |
|  | Event Data | $<0.001$ | $<0.001$ | $p=0.076$ |

Table S2. Pairwise comparisons of counts of scan and continuous event data on enrichment use for each time of night by stated enrichment goal. A graphical representation of the data can be seen in Figure 1.

|  | Comparison of Exploring vs. Foraging Enrichment |  |
| :---: | :---: | :---: |
|  | Scan Data | Continuous Event Data |
| PM | $\mathrm{t}_{8}=-11.03, p<0.001$ | $\mathrm{t}_{24}=-5.14, p<0.001$ |
| MID | $\mathrm{t}_{151}=0.03, p=0.975$ | $\mathrm{t}_{71}=1.69, p=0.095$ |
| AM | $\mathrm{t}_{352}=3.10, p=0.002$ | $\mathrm{t}_{125}=3.45, p=0.001$ |

Table S3. Pairwise comparisons of counts of scan and continuous event data on enrichment use for each item by the time of night.

|  |  | PM to MID | PM to <br> AM | $\begin{gathered} \text { MID to } \\ \text { AM } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| Slow Feeders | Scan Data | $\begin{aligned} & \mathrm{t}_{8}=7.06, \\ & p<0.001 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{8}=7.07, \\ & p<0.001 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{649}=0.53, \\ p=0.594 \end{gathered}$ |
|  | Continuous Event Data | $\begin{aligned} \mathrm{t}_{65} & =6.05, p \\ & <0.001 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{55} & =6.30, p \\ & <0.001 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{649}=1.57, \\ p=0.117 \end{gathered}$ |
| Containers with Crickets | Scan Data | $\begin{aligned} \mathrm{t}_{10} & =6.70, p \\ & <0.001 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{10}=6.74, p \\ &<0.001 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{649}=0.77, \\ p=0.441 \end{gathered}$ |
|  | Continuous <br> Event Data | $\begin{aligned} \mathrm{t}_{57} & =6.24, p \\ & <0.001 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{45} & =6.64, p \\ & <0.001 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{635}=3.42, \\ p=0.001 \end{gathered}$ |
| Rubber Toys with Food | Scan Data | $\begin{aligned} & \mathrm{t}_{9}=6.99, \\ & p<0.001 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{8}=7.07, \\ & p<0.001 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{159}=3.38, \\ p=0.001 \end{gathered}$ |
|  | Continuous Event Data | $\begin{aligned} \mathrm{t}_{53} & =6.35, p \\ & <0.001 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{43} & =6.69, p \\ & <0.001 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{649}=3.22, \\ p=0.001 \end{gathered}$ |
| Paper Towel Treat Tubes | Scan Data | $\begin{gathered} \mathrm{t}_{7}=7.28, \\ p<0.001 \end{gathered}$ | $\begin{aligned} & \mathrm{t}_{7}=7.29, \\ & p<0.001 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{649}=1.84, \\ p=0.067 \end{gathered}$ |
|  | Continuous <br> Event Data | $\begin{aligned} \mathrm{t}_{56} & =6.28, p \\ & <0.001 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{54} & =6.34, p \\ & <0.001 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{649}=0.49, \\ p=0.624 \\ \hline \end{gathered}$ |
| Pool | Scan Data | $\begin{gathered} \mathrm{t}_{649}= \\ -0.22, p= \\ 0.827 \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=1.57, \\ p=0.117 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=1.76, \\ p=0.079 \end{gathered}$ |
|  | Continuous Event Data | $\begin{gathered} \mathrm{t}_{506}=3.62, \\ p<0.001 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{207}=4.53, \\ p<0.001 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=1.65, \\ p=0.100 \end{gathered}$ |
| Warthog Scented Towels | Scan Data | $\begin{aligned} \mathrm{t}_{40} & =4.78, p \\ & <0.001 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{76} & =4.07, p \\ & <0.001 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{649} & =-1.51, \\ p & =0.130 \end{aligned}$ |
|  | Continuous <br> Event Data | $\begin{gathered} \mathrm{t}_{240}=4.36, \\ p<0.001 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{131}=5.08, \\ p<0.001 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=1.52, \\ p=0.130 \end{gathered}$ |
| Perfumed Boomer Balls ${ }^{\circledR}$ | Scan Data | $\begin{gathered} \mathrm{t}_{649}=0.38, \\ p=0.706 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=1.28, \\ p=0.20 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=0.95, \\ p=0.342 \\ \hline \end{gathered}$ |
|  | Continuous <br> Event Data | $\begin{gathered} \mathrm{t}_{145}=4.95, \\ p<0.001 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{157}=4.84, \\ p<0.001 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{649} & =-0.23, \\ p & =0.818 \end{aligned}$ |

Table S4: Pairwise comparisons of counts of scan and continuous event data on enrichment use for the time of night by each item. Statistics are written for the item on the left side being compared to the item across the top of the table. Continuous event count data is reported below and to the left of the black squares, and scan data is reported to the right and above of the black squares. PM Time Frame right after the enrichment was given (21:00 to 22:00). MID Time Frame (00:30 to 1:30). AM Time Frame (04:00 to 05:00). A graphical representation of the data can be seen in Figure 2.

|  | PM | Foraging Enrichment |  |  |  | Exploring Environment Enrichment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Slow <br> Feeders | Containers with Crickets | Rubber Toys with Food | Paper Towel <br> Treat Tubes | Pool | Warthog Scented Towels | Perfumed Boomer Balls ${ }^{\circledR}$ |
|  | Slow Feeders |  | $\begin{aligned} & \mathrm{t}_{20}=2.84, \\ & p=0.010 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{16}=0.15, \\ & p=0.885 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{16} & =-2.77, \\ p & =0.014 \end{aligned}$ | $\begin{aligned} & \mathrm{t} 9=6.97, \\ & p<0.001 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{13}=5.94, \\ & p<0.001 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{8}=7.04, \\ & p<0.001 \end{aligned}$ |
|  | Containers with Crickets | $\begin{aligned} & \mathrm{t}_{82}=0.67, \\ & p=0.507 \end{aligned}$ |  | $\begin{aligned} \mathrm{t}_{20} & =-2.71, \\ p & =0.014 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{16} & =-4.79, \\ p & <0.001 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{11}=6.58, \\ & p<0.001 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{22}=4.76, \\ & p<0.001 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{10}=6.71, \\ & p<0.001 \end{aligned}$ |
|  | Rubber Toys with Food | $\begin{aligned} & \mathrm{t}_{81}=1.38, \\ & p=0.172 \end{aligned}$ | $\begin{aligned} & \mathrm{t} 79=0.73, \\ & p=0.469 \end{aligned}$ |  | $\begin{aligned} \mathrm{t}_{16} & =-2.89, \\ p & =0.011 \end{aligned}$ | $\begin{aligned} & \mathrm{t} 9=6.94 \\ & p<0.001 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{14}=5.89, \\ & p<0.001 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{9}=7.02, \\ & p<0.001 \end{aligned}$ |
|  | Paper Towel Treat Tubes | $\begin{aligned} \mathrm{t}_{85} & =-0.56, \\ p & =0.574 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{84} & =-1.22, \\ p & =0.226 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{82} & =-1.91, \\ p & =0.060 \end{aligned}$ |  | $\begin{aligned} & \mathrm{t}_{8}=7.21, \\ & p<0.001 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{10}=6.61, \\ & p<0.001 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{7}=7.26, \\ & p<0.001 \end{aligned}$ |
|  | Pool | $\begin{aligned} \mathrm{t}_{75} & =-4.96, \\ p & <0.001 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{68} & =-5.25, \\ p & <0.001 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{62} & =-5.51, \\ p & <0.001 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{83} & =-4.70, \\ p & <0.001 \end{aligned}$ |  | $\begin{aligned} \mathrm{t}_{30} & =-5.00, \\ p & <0.001 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{649}=1.49, \\ p=0.138 \end{gathered}$ |
|  | Warthog Scented Towels | $\begin{aligned} \mathrm{t}_{89} & =-1.33, \\ p & =0.187 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{87} & =-1.95, \\ p & =0.054 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{84} & =-2.59, \\ p & =0.011 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{90} & =-0.78, \\ p & =0.438 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{94}=4.27, \\ & p<0.001 \end{aligned}$ |  | $\begin{aligned} & \mathrm{t}_{23}=5.43, \\ & p<0.001 \end{aligned}$ |
|  | Perfumed Boomer Balls ${ }^{\circledR}$ | $\begin{aligned} \mathrm{t}_{87} & =-4.17, \\ p & <0.001 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{79} & =-4.55, \\ p & <0.001 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{71} & =-4.91, \\ p & <0.001 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{94} & =-3.82, \\ p & <0.001 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{166}=1.50, \\ p=0.136 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{104} & =-3.26 \\ p & =0.001 \end{aligned}$ |  |


| MID |  | Foraging Enrichment |  |  |  | Exploring Environment Enrichment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Slow <br> Feeders | Containers with Crickets | Rubber Toys with Food | Paper Towel Treat Tubes | Pool | Warthog Scented Towels | $\begin{gathered} \hline \text { Perfumed } \\ \text { Boomer } \\ \text { Balls }^{\circledR} \\ \hline \end{gathered}$ |
|  | Slow Feeders |  | $\begin{aligned} \mathrm{t}_{649} & =-0.20 \\ p & =0.844 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{649} & =-1.60, \\ p & =0.111 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{649}=0.50, \\ p=0.614 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{649} & =-0.60 \\ p & =0.548 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{649} & =-1.53 \\ p & =0.127 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{649}=1.45, \\ p=0.147 \end{gathered}$ |
|  | Containers with Crickets | $\begin{gathered} \mathrm{t}_{480}=-0.23, \\ p=0.821 \end{gathered}$ |  | $\begin{gathered} \mathrm{t}_{649}=-1.42, \\ p=0.157 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=0.70, \\ p=0.484 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{649} & =-0.41 \\ p & =0.684 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{649} & =-1.35 \\ p & =0.177 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{649}=1.63, \\ p=0.103 \end{gathered}$ |
|  | Rubber Toys with Food | $\begin{aligned} \mathrm{t}_{464} & =-0.07 \\ p & =0.947 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{490}=0.16, \\ p=0.873 \end{gathered}$ |  | $\begin{gathered} \mathrm{t}_{589}=2.04, \\ p=0.042 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=1.03, \\ p=0.303 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=0.06, \\ p=0.956 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{283}=2.80, \\ p=0.005 \end{gathered}$ |
|  | Paper Towel Treat Tubes | $\begin{gathered} \mathrm{t}_{586}=-2.03 \\ p=0.043 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{649} & =-1.82 \\ p & =0.069 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{610} & =-1.97 \\ p & =0.050 \end{aligned}$ |  | $\begin{aligned} \mathrm{t}_{649} & =-1.09 \\ p & =0.275 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{649} & =-1.97 \\ p & =0.049 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{649}=0.98, \\ p=0.326 \end{gathered}$ |
|  | Pool | $\begin{gathered} \mathrm{t}_{556}=-1.12, \\ p=0.265 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{601}=-0.90, \\ p=0.371 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{573}=-1.05, \\ p=0.294 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=0.98, \\ p=0.330 \end{gathered}$ |  | $\begin{aligned} \mathrm{t}_{649} & =-0.97 \\ p & =0.334 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{649}=1.98, \\ p=0.048 \end{gathered}$ |
|  | Warthog Scented Towels | $\begin{gathered} \mathrm{t}_{216}=2.90, \\ p=0.004 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{213}=3.08, \\ p=0.002 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{215}=2.95, \\ p=0.003 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{158}=4.28, \\ p<0.001 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{1} 89 \\ p<0.71, \\ p<001 \end{gathered}$ |  | $\begin{gathered} \mathrm{t}_{314}=2.72, \\ p=0.007 \end{gathered}$ |
|  | Perfumed Boomer Balls ${ }^{\circledR}$ | $\begin{aligned} \mathrm{t}_{584} & =-1.92 \\ p & =0.056 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{649}=-1.71, \\ p=0.088 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{607} & =-1.86 \\ p & =0.064 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{649}=0.13, \\ p=0.900 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{649} & =-0.86 \\ p & =0.393 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{162} & =-4.21, \\ p & <0.001 \end{aligned}$ |  |


|  | AM | Foraging Enrichment |  |  |  | Exploring Environment Enrichment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Slow <br> Feeders | Containers with Crickets | Rubber Toys with Food | Paper Towel Treat Tubes | Pool | Warthog Scented Towels | $\begin{gathered} \hline \text { Perfumed } \\ \text { Boomer } \\ \text { Balls }^{\circledR} \\ \hline \end{gathered}$ |
|  | Slow Feeders |  | $\begin{gathered} \mathrm{t}_{649}=0.03, \\ p=0.974 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=1.85, \\ p=0.065 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=1.82, \\ p=0.069 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=0.66, \\ p=0.508 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{171} & =-3.11 \\ p & =0.002 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{649}=1.79, \\ p=0.074 \end{gathered}$ |
|  | Containers with Crickets | $\begin{gathered} \mathrm{t}_{649}=-2.40 \\ p=0.016 \end{gathered}$ |  | $\begin{gathered} \mathrm{t}_{649}=1.84, \\ p=0.066 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=1.81, \\ p=0.071 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=0.63, \\ p=0.526 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{168}=-3.13, \\ p=0.002 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=1.77, \\ p=0.077 \end{gathered}$ |
|  | Rubber Toys with Food | $\begin{aligned} \mathrm{t}_{649} & =-2.00, \\ p & =0.05 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{649}=0.50, \\ p=0.620 \end{gathered}$ |  | $\begin{aligned} \mathrm{t}_{649} & =-0.04, \\ p & =0.970 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{649} & =-1.32 \\ p & =0.186 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{75} & =-4.06, \\ p & <0.001 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{649}=-0.07 \\ p=0.941 \end{gathered}$ |
|  | Paper Towel Treat Tubes | $\begin{gathered} \mathrm{t}_{649}=-1.05, \\ p=0.296 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=1.49, \\ p=0.137 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=1.03, \\ p=0.306 \end{gathered}$ |  | $\begin{gathered} \mathrm{t}_{649}=-1.29 \\ p=0.199 \end{gathered}$ | $\begin{aligned} \mathrm{t} 76 & =-4.05, \\ p & <0.001 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{649}=-0.04, \\ p=0.971 \end{gathered}$ |
|  | Pool | $\begin{gathered} \mathrm{t}_{649}=-1.22, \\ p=0.222 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=1.32, \\ p=0.187 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=0.85, \\ p=0.396 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=-0.18 \\ p=0.855 \end{gathered}$ |  | $\begin{gathered} \mathrm{t}_{121}=-3.51 \\ p=0.001 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=1.25, \\ p=0.212 \end{gathered}$ |
|  | Warthog Scented Towels | $\begin{gathered} \mathrm{t}_{2} 99=2.97, \\ p=0.003 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{175}=4.48, \\ p<0.001 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{194}=4.26, \\ p<0.001 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{246}=3.70, \\ p<0.001 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{236}=3.81, \\ p<0.001 \end{gathered}$ |  | $\begin{aligned} & \mathrm{t} 76=4.04, \\ & p<0.001 \end{aligned}$ |
|  | Perfumed Boomer Balls ${ }^{\circledR}$ | $\begin{gathered} \mathrm{t}_{649}=-0.23, \\ p=0.822 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=2.16, \\ p=0.031 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=1.76, \\ p=0.079 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=0.81, \\ p=0.419 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{649}=0.98, \\ p=0.326 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{296} & =-3.13, \\ p & =0.002 \end{aligned}$ |  |

Table S5. Pairwise comparisons for counts of scan data on the total time foraging by the specific enrichment item presented. Statistics are written for the item on the left side being compared to the item across the top of the table. A graphical representation of the data can be seen in Figure 3.


Table S6. Pairwise comparisons for counts of scan data on the total time investigating non-food items by the specific enrichment item presented. Statistics are written for the item on the left side being compared to the item across the top of the table. A graphical representation of the data can be seen in Figure 4.

|  |  | Foraging Enrichment |  |  |  | Exploring Environment Enrichment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Slow <br> Feeders | Containers with Crickets | Rubber Toys with Food | Paper Towel <br> Treat Tubes | Pool | Warthog Scented Towels | Perfumed <br> Boomer Balls ${ }^{\circledR}$ |
|  | Slow Feeders |  |  |  |  |  |  |  |
|  | Containers with Crickets | $\begin{aligned} \mathrm{t}_{48} & =-0.15, \\ p & =0.883 \end{aligned}$ |  |  |  |  |  |  |
|  | Rubber Toys with Food | $\begin{aligned} \mathrm{t}_{49} & =-0.55, \\ p & =0.582 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{49} & =-0.41, \\ p & =0.686 \end{aligned}$ |  |  |  |  |  |
|  | Paper Towel Treat Tubes | $\begin{aligned} \mathrm{t}_{50} & =-0.76 \\ p & =0.450 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{50} & =-0.617, \\ p & =0.540 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{51} & =-0.21, \\ p & =0.833 \end{aligned}$ |  |  |  |  |
|  | Pool | $\begin{aligned} & \mathrm{t}_{46}=1.56, \\ & p=0.126 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{46}=1.69 \\ & p=0.098 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{46} & =2.032, \\ p & =0.048 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{46}=2.20, \\ & p=0.033 \end{aligned}$ |  |  |  |
|  | Warthog Scented Towels | $\begin{aligned} & \mathrm{t}_{42}=2.39, \\ & p=0.021 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{41}=2.50, \\ & p=0.017 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{38}=2.78, \\ & p=0.008 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{36}=2.92, \\ & p=0.006 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{41}=1.00, \\ & p=0.325 \end{aligned}$ |  |  |
|  | Perfumed Boomer Balls ${ }^{\circledR}$ | $\begin{aligned} & \mathrm{t}_{46}=0.89, \\ & p=0.378 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{47}=1.03, \\ & p=0.307 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{49}=1.41, \\ & p=0.164 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{49}=1.60, \\ & p=0.115 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{43} & =-0.71, \\ p & =0.482 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{43} & =-1.65, \\ p & =0.105 \end{aligned}$ |  |

Table S7: Pairwise comparisons for counts of scan data on the total time locomoting by the specific enrichment item presented. Statistics are written for the item on the left side being compared to the item across the top of the table. A graphical representation of the data can be seen in Figure 5 .

Foraging Enrichment
Exploring Environment Enrichment

|  |  | Slow <br> Feeders | Containers with Crickets | Rubber Toys with Food | Paper Towel <br> Treat Tubes | Pool | Warthog Scented Towels | Perfumed <br> Boomer Balls ${ }^{\circledR}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U000000000000 | Slow Feeders |  |  |  |  |  |  |  |
|  | Containers with Crickets | $\begin{aligned} \mathrm{t}_{47} & =-0.212, \\ p & =0.833 \end{aligned}$ |  |  |  |  |  |  |
|  | Rubber Toys with Food | $\begin{aligned} \mathrm{t}_{49} & =-1.04, \\ p & =0.304 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{49} & =-0.834, \\ p & =0.409 \end{aligned}$ |  |  |  |  |  |
|  | Paper Towel Treat Tubes | $\begin{aligned} \mathrm{t}_{49} & =-1.32, \\ p & =0.192 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{49} & =-1.12, \\ p & =0.268 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{50} & =-0.30, \\ p & =0.769 \end{aligned}$ |  |  |  |  |
|  | Pool | $\begin{aligned} & \mathrm{t}_{46}=2.24, \\ & p=0.030 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{46}=2.42, \\ & p=0.020 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{46}=3.06, \\ & p=0.004 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{46}=3.26, \\ & p=0.002 \end{aligned}$ |  |  |  |
|  | Warthog Scented Towels | $\begin{aligned} & \mathrm{t}_{46}=1.29, \\ & p=0.203 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{46}=1.49, \\ & p=0.143 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{48}=2.23, \\ & p=0.030 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{48}=2.48, \\ & p=0.017 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{43} & =-1.05, \\ p & =0.298 \end{aligned}$ |  |  |
|  | Perfumed <br> Boomer Balls ${ }^{\circledR}$ | $\begin{aligned} & \mathrm{t}_{46}=0.92, \\ & p=0.361 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{46}=1.13, \\ & p=0.266 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{48}=1.90, \\ & p=0.063 \end{aligned}$ | $\begin{aligned} & \mathrm{t}_{49}=2.16, \\ & p=0.036 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{44} & =-1.42 \\ p & =0.163 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{44} & =-0.38, \\ p & =0.703 \end{aligned}$ |  |

Table S8. Pairwise comparisons for counts of scan and continuous event data on enrichment use based on the interaction between stated enrichment goal and time in the study.

|  |  | Weeks 1-2 to <br> Weeks 3-4 | Weeks 1-2 to <br> Weeks 5-6 | Weeks 1-2 to <br> Weeks 7-8 | Weeks 3-4 to <br> Weeks 5-6 | Weeks 3-4 to Weeks 7-8 | Weeks 5-6 to <br> Weeks 7-8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Foraging Enrichment | Scan Data | $\begin{aligned} \mathrm{t}_{216} & =-1.20, \\ p & =0.230 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{216}=-0.51, \\ p=0.608 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{216} & =-1.16, \\ p & =0.248 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{216}=0.70, \\ p=0.486 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{216}=0.05, \\ p=0.962 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{216} & =-0.65, \\ p & =0.516 \end{aligned}$ |
|  | Continuous <br> Event Data | $\begin{aligned} \mathrm{t}_{216} & =-0.76 \\ p & =0.448 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{216}=0.36, \\ p=0.720 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{216}=0.66, \\ p=0.510 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{216}=1.12, \\ p=0.265 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{216}=1.41, \\ p=0.159 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{216}=0.30, \\ p=0.763 \end{gathered}$ |
| Exploring <br> Environment <br> Enrichment | Scan Data | $\begin{aligned} \mathrm{t}_{216} & =-1.38 \\ p & =0.169 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{216}=0.59, \\ p=0.553 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{216} & =-0.58 \\ p & =0.564 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{216}=1.94, \\ p=0.054 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{216}=0.82, \\ p=0.413 \\ \hline \end{gathered}$ | $\begin{aligned} \mathrm{t}_{216} & =-1.16, \\ p & =0.247 \end{aligned}$ |
|  | Continuous Event Data | $\begin{aligned} \mathrm{t}_{216} & =-0.45, \\ p & =0.656 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{216}=1.67, \\ p=0.096 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{216}=0.43, \\ p=0.669 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{216}=2.09, \\ p=0.038 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{216}=0.87, \\ p=0.384 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{216} & =-1.26, \\ p & =0.211 \end{aligned}$ |

Table S9. Pairwise comparisons for counts of scan and continuous event data on enrichment use based on the interaction between enrichment item and time in the A graphical representation of the data can be seen in Figure 6.

|  |  | Weeks 1-2 to <br> Weeks 3-4 | Weeks 1-2 to Weeks 5-6 | Weeks 1-2 to Weeks 7-8 | Weeks 3-4 to <br> Weeks 5-6 | Weeks 3-4 to Weeks 7-8 | Weeks 5-6 to Weeks 7-8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Slow Feeders | Scan Data | $\begin{aligned} \mathrm{t}_{41} & =-4.73, \\ p & <0.001 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =-3.06 \\ p & =0.003 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{35}=-4.93, \\ p<0.001 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{196}=2.64, \\ p=0.009 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{196} & =-0.45 \\ p & =0.654 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =-3.00, \\ p & =0.003 \end{aligned}$ |
|  | Continuous Event Data | $\begin{gathered} \mathrm{t}_{196}=0.90, \\ p=0.369 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{196}=2.98, \\ p=0.003 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{196}=3.29, \\ p=0.001 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{196}=2.19, \\ p=0.030 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{196}=2.53, \\ p=0.012 \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{t}_{1} 96=0.38, \\ p=0.704 \end{gathered}$ |
| Containers with Crickets | Scan Data | $\begin{gathered} \mathrm{t}_{196}=0.97, \\ p=0.333 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{196} & =-1.38 \\ p & =0.171 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{196}=0.10, \\ p=0.924 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{196}=-2.26, \\ p=0.025 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{196} & =-0.88, \\ p & =0.381 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{196}=1.46, \\ p=0.145 \end{gathered}$ |
|  | Continuous Event Data | $\begin{gathered} \mathrm{t}_{196}=-1.46, \\ p=0.145 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{196} & =-1.96 \\ p & =0.051 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{196}=-1.85, \\ p=0.065 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{196} & =-0.53 \\ p & =0.600 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =-0.41 \\ p & =0.682 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{1} 96=0.12, \\ p=0.908 \\ \hline \end{gathered}$ |
| Rubber Toys with Food | Scan Data | $\begin{gathered} \mathrm{t}_{196}=0.99, \\ p=0.322 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{196}=1.65, \\ p=0.102 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{196}=0.99, \\ p=0.322 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{196}=0.68, p= \\ \\ 0.496 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{196} & =-0.001, \\ p & =0.999 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =-0.68 \\ p & =0.495 \end{aligned}$ |
|  | Continuous Event Data | $\begin{aligned} \mathrm{t}_{196} & =-1.00, \\ p & =0.317 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =-1.03, \\ p & =0.305 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{1} 96=0.67, \\ p=0.506 \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{t}_{196}=-0.03, p= \\ 0.979 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{196}=1.65, \\ p=0.101 \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{t}_{196}=1.67, \\ p=0.096 \\ \hline \end{gathered}$ |


| Paper Towel | Scan Data | $\begin{aligned} \mathrm{t}_{196} & =-0.97, \\ p & =0.333 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =-0.25 \\ p & =0.804 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =-0.19, \\ p & =0.852 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{196}=0.73, p= \\ \\ 0.468 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{196}=0.79, \\ p=0.431 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{196}=0.06, \\ p=0.950 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Treat Tubes | Continuous Event Data | $\begin{aligned} \mathrm{t}_{196} & =-0.79, \\ p & =0.433 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =1.16, \\ p & =0.246 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =-0.67, \\ p & =0.505 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{196}=1.91, p= \\ 0.057 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{196} & =0.12, \\ p & =0.905 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =-1.80, \\ p & =0.073 \end{aligned}$ |
| Pool | Scan Data | $\begin{gathered} \mathrm{t}_{1} 96=0.38, \\ p=0.706 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{196} & =-0.90 \\ p & =0.370 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{196}=1.76, \\ p=0.081 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{196}=-1.25, p= \\ 0.214 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{196} & =-2.06 \\ p & =0.041 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =-0.94, \\ p & =0.351 \end{aligned}$ |
|  | Continuous Event Data | $\begin{aligned} \mathrm{t}_{196} & =-2.18, \\ p & =0.030 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =0.15, \\ p & =0.882 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =-0.54, \\ p & =0.588 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{196}=2.31, p= \\ 0.022 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{196}=1.69, \\ p=0.093 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{196} & =-0.69, \\ p & =0.492 \end{aligned}$ |
| Warthog Scented Towels | Scan Data | $\begin{aligned} \mathrm{t}_{196} & =-1.83, \\ p & =0.069 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{196}=1.29, \\ p=0.197 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{1} 96 & =0.41, \\ p & =0.681 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196}= & 2.91, p= \\ & 0.004 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{1} 96=2.19, \\ p=0.030 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{196}=-0.90, \\ p=0.370 \end{gathered}$ |
|  | Continuous Event Data | $\begin{aligned} \mathrm{t}_{196} & =-0.34 \\ p & =0.733 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =3.09, \\ p & =0.002 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =0.88, \\ p & =0.381 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{196}=3.36, p= \\ 0.001 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{196} & =1.21, \\ p & =0.227 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =-2.33, \\ p & =0.021 \end{aligned}$ |
| Perfumed <br> Boomer Balls ${ }^{\circledR}$ | Scan Data | $\begin{aligned} \mathrm{t}_{196} & =-0.58 \\ p & =0.565 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =-0.58 \\ p & =0.565 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =-0.99 \\ p & =0.323 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{196}=-7.80 \mathrm{E}-06, \\ p=1.00 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{196} & =-0.45 \\ p & =0.656 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{1} 96=0.45, \\ p=0.656 \end{gathered}$ |
|  | Continuous Event Data | $\begin{aligned} \mathrm{t}_{196} & =1.70, \\ p & =0.090 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =-1.01, \\ p & =0.313 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =0.01, \\ p & =0.989 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{196}=-2.62, p= \\ 0.010 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{196} & =-1.69 \\ p & =0.092 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{196} & =1.03, \\ p & =0.307 \end{aligned}$ |

Table S10. Pairwise comparisons for fecal glucocorticoid metabolite (FGM) concentrations by the specific enrichment item presented. There were not enough samples on days that containers with crickets were given to allow for statistical analysis. For this reason, containers with crickets are not shown in the table. Statistics are written for the item on the left side being compared to the item across the top of the table.

|  |  | Foraging Enrichment |  |  | Exploring Environment Enrichment |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{array}{c}\text { Slow } \\ \text { Feeders }\end{array}$ | $\begin{array}{c}\text { Rubber Toys } \\ \text { with Food }\end{array}$ | $\begin{array}{c}\text { Paper Towel } \\ \text { Treat Tubes }\end{array}$ | Pool | $\begin{array}{c}\text { Warthog } \\ \text { Scented } \\ \text { Towels }\end{array}$ | \(\left.\begin{array}{c}Perfumed <br>

Boomer <br>
Balls\end{array}\right\}\)

Table S11. Pairwise comparisons for behavioral diversity by the specific enrichment item presented. Statistics are written for the item on the left side being compared to the item across the top of the table.

|  |  | Foraging Enrichment |  |  |  | Exploring Environment Enrichment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Slow <br> Feeders | Containers with Crickets | Rubber Toys with Food | Paper Towel Treat Tubes | Pool | Warthog Scented Towels | Perfumed Boomer Balls ${ }^{\circledR}$ |
|  | Slow Feeders |  |  |  |  |  |  |  |
|  | Containers with Crickets | $\begin{gathered} \mathrm{t}_{207}=1.03, \\ p=0.303 \end{gathered}$ |  |  |  |  |  |  |
|  | Rubber Toys with Food | $\begin{gathered} \mathrm{t}_{207}=-1.40 \\ p=0.163 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{207} & =-2.43, \\ p & =0.016 \end{aligned}$ |  |  |  |  |  |
|  | Paper Towel Treat Tubes | $\begin{aligned} \mathrm{t}_{207} & =-0.50 \\ p & =0.619 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{207} & =-1.53, \\ p & =0.128 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{207}=0.90, \\ p=0.367 \end{gathered}$ |  |  |  |  |
|  | Pool | $\begin{aligned} \mathrm{t}_{207} & =-0.49 \\ p & =0.624 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{207}=-1.52, \\ p=0.129 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{207}=0.91, \\ p=0.364 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{207}=0.01, \\ p=0.995 \end{gathered}$ |  |  |  |
|  | Warthog Scented Towels | $\begin{gathered} \mathrm{t}_{207}=1.50, \\ p=0.136 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{207}=0.46, \\ p=0.643 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{207}=2.90, \\ p=0.004 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{207}=1.99, \\ p=0.048 \end{gathered}$ | $\begin{gathered} \mathrm{t}_{207}=1.99, \\ p=0.048 \end{gathered}$ |  |  |
|  | Perfumed Boomer Balls ${ }^{\circledR}$ | $\begin{gathered} \mathrm{t}_{207}=-1.53, \\ p=0.127 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{207} & =-2.56, \\ p & =0.011 \end{aligned}$ | $\begin{gathered} \mathrm{t}_{207}=-0.13, \\ p=0.896 \end{gathered}$ | $\begin{aligned} \mathrm{t}_{207} & =-1.03, \\ p & =0.302 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{207} & =-1.04, \\ p & =0.299 \end{aligned}$ | $\begin{aligned} \mathrm{t}_{207} & =-3.03, \\ p & =0.003 \end{aligned}$ |  |

