

**Table 1.** Activity Profile and bout analysis (mean  $\pm$  SEM) for all diet and running-wheel conditions. The top portion of the Table (Before) is activity exhibited prior to the food switch (Weeks 8-16), while the bottom part (After) is activity recorded after the RC replacement (Weeks 17-20). *Italics* indicate significant differences between Before and After activity parameters, at  $p < 0.05$ .

<b>Before</b>							
<b>Diet</b>	<b>Wheel</b>	<b>Average</b>	<b>Light Average</b>	<b>Dark Average</b>	<b>Bout Length (min)</b>	<b>Counts per Bout</b>	<b>Bouts per Day</b>
<b>RC</b>	NW	25.83 $\pm$ 2.15	12.48 $\pm$ 1.53	39.23 $\pm$ 3.05	42.70 $\pm$ 2.20	290.18 $\pm$ 29.50	11.35 $\pm$ 1.90
<b>RC</b>	W	52.09 $\pm$ 4.15	6.10 $\pm$ 1.47	98.08 $\pm$ 8.14	64.33 $\pm$ 7.86	1093.79 $\pm$ 164.44	7.20 $\pm$ 0.80
<b>HFC</b>	NW	<i>17.60 <math>\pm</math> 1.13</i>	7.27 $\pm$ 0.63	<i>27.91 <math>\pm</math> 1.80</i>	<i>38.81 <math>\pm</math> 2.05</i>	<i>209.61 <math>\pm</math> 19.23</i>	11.00 $\pm$ 0.41
<b>HFC</b>	W	60.30 $\pm$ 5.40	4.58 $\pm$ 1.14	115.99 $\pm$ 9.99	116.47 $\pm$ 10.99	2219.35 $\pm$ 254.00	4.43 $\pm$ 0.28
<b>HFR</b>	NW	19.21 $\pm$ 1.62	7.50 $\pm$ 0.71	32.73 $\pm$ 2.70	40.65 $\pm$ 1.76	241.53 $\pm$ 20.13	10.67 $\pm$ 0.34
<b>HFR</b>	W	55.85 $\pm$ 3.99	3.86 $\pm$ 1.16	107.99 $\pm$ 7.65	89.72 $\pm$ 7.15	1584.19 $\pm$ 182.95	5.17 $\pm$ 0.30
<b>After</b>							
<b>RC</b>	NW	25.23 $\pm$ 2.54	11.35 $\pm$ 1.98	39.15 $\pm$ 3.70	34.99 $\pm$ 2.99	226.10 $\pm$ 32.55	12.18 $\pm$ 0.50
<b>RC</b>	W	50.82 $\pm$ 4.07	5.98 $\pm$ 1.50	95.65 $\pm$ 7.80	56.11 $\pm$ 6.88	923.36 $\pm$ 136.55	7.90 $\pm$ 0.74
<b>HFC</b>	NW	<i>11.97 <math>\pm</math> 0.55</i>	4.93 $\pm$ 0.48	<i>19.04 <math>\pm</math> 0.79</i>	<i>29.19 <math>\pm</math> 0.69</i>	<i>127.56 <math>\pm</math> 6.46</i>	12.20 $\pm$ 0.61
<b>HFC</b>	W	60.59 $\pm$ 5.05	4.77 $\pm$ 1.13	108.41 $\pm$ 12.00	71.40 $\pm$ 9.04	1268.36 $\pm$ 196.24	5.14 $\pm$ 0.42
<b>HFR</b>	NW	21.30 $\pm$ 2.93	6.90 $\pm$ 0.95	35.69 $\pm$ 5.02	41.20 $\pm$ 2.40	265.47 $\pm$ 28.38	11.70 $\pm$ 0.22
<b>HFR</b>	W	45.31 $\pm$ 3.00	2.65 $\pm$ 0.73	87.96 $\pm$ 5.70	45.48 $\pm$ 3.69	661.65 $\pm$ 88.32	7.63 $\pm$ 0.42