The data presented in this Final report was collected from January 28, 2018 through Saturday, March 17, 2018. This report represents six weeks of data collection that occurred each night, at both Newell Hall and Library West, from 1 a.m. through 8 a.m. The study team counted each facility once per hour, alternating between each.

Figure 1 displays the median occupancy per hour for each facility per hour. Figure 2 displays the total occupancy of the facilities for each day of the six week period.

Figures 4-6 on the following page illustrate the features being used at both Library West and Newell Hall as well as the ‘instances’ of quiet and talking behavior.

Figure 6 is a sample of the hourly chart with which we tracked occupancy by hour and capacity utilization (based on the facility’s seating divided by total occupancy for both buildings).

### Table 1: Mean Occupancy Per Hour

<table>
<thead>
<tr>
<th>Time</th>
<th>Newell Hall Mean Occupancy Per Hour</th>
<th>Library West Mean Occupancy Per Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00</td>
<td>61</td>
<td>231</td>
</tr>
<tr>
<td>2:00</td>
<td>47</td>
<td>154</td>
</tr>
<tr>
<td>3:00</td>
<td>29</td>
<td>92</td>
</tr>
<tr>
<td>4:00</td>
<td>17</td>
<td>57</td>
</tr>
<tr>
<td>5:00</td>
<td>10</td>
<td>35</td>
</tr>
<tr>
<td>6:00</td>
<td>8</td>
<td>29</td>
</tr>
<tr>
<td>7:00</td>
<td>7</td>
<td>29</td>
</tr>
<tr>
<td>8:00</td>
<td>10</td>
<td>52</td>
</tr>
</tbody>
</table>

### Figures

- **Figure 1.** Median Occupancy per Hour.
- **Figure 2.** Total Daily Occupancy – Trend (Newell Hall & Library West = headcounts).
Figure 3. Traffic Totals by Day (Newell Hall = swipe data; Library West = traffic counter data)
Figure 4. Newell Hall - Total Utilization by Feature (7,313 users over a 6 wk. period)

- Tables/countertops with multiple seating without public access computers (60.2%)*: 4336
- Individual seating without public access computers (29.4%)*: 2121
- Couches (3.5%)*: 255
- Group study rooms (3.6%): 256
- Other (restrooms, printer) (2.2%): 155
- Dining (1.1%): 80

*Couches only available in Newell Hall/Public access computers available in Library West only

The study included counts of features in use (e.g., tables, carrels, couches) displayed by percentage of use in Figures 4 and 5 for Newell Hall and Library West, respectively. Both facilities’ strongest feature is seating for multiple users; individual seating is second, but for Library West this seating includes public access computers. Figure 6 illustrates the instances of quiet/talking uses along with uses of monitors, printers and whiteboards. Both facilities demonstrate similar trends in use of most features.

Figure 5. Library West - Total Utilization by Feature (26,131 users over a 6 wk. period)

- Tables/countertops with multiple seating without public access computers (43.4%)*: 11256
- Individual seating with public access computers (21.5%)*: 5574
- Individual seating without public access computers (20.0%): 5192
- Group study rooms (11.5%): 2986
- Dining (2.0%): 521
- Tables/countertops with multiple seating with public access computers (.09%)*: 243
- Other (restrooms) (0.6%): 168

*Public access computers available in Library West only/Couches available in Newell Hall only

Figure 6. Total Observations for Quiet Study Utilization (4 wk. period)

- Quiet pairs: 1133
- Talking pairs: 756
- Talking groups: 643
- Quiet groups: 391

Library West | Newell Hall
This figure illustrates the total occupancy by hour for each facility and presents the percent of capacity utilized. The percentages represent the seating capacity for each facility divided by the total occupancy of both buildings, assuming that should only one building be open twenty-four hours, the users would all have to use the one remaining open. For the six week period, there were a total of thirty hours in which the total occupancy at Newell Hall exceeded 75% capacity; there were nine hours in which the capacity exceeded 100%. Most of these were from 12-1 a.m. (n=21) and occurred on various nights. The full, six-week spreadsheet is available upon request.

What is the most frequently occupied seating?

What are the hours in which the capacity utilization exceeds 75% of Newell Hall seating capacity?

What are the hours in which features available at Library West and not available at Newell Hall are being used? (Feature by Hours)

What are the features available at one and not the other/vice versa. (Table)

<table>
<thead>
<tr>
<th>Newell Hall User Frequency Profile</th>
<th>No. of Unique Users</th>
</tr>
</thead>
<tbody>
<tr>
<td>10+ visits</td>
<td>4</td>
</tr>
<tr>
<td>6-9 visits</td>
<td>16</td>
</tr>
<tr>
<td>3-5 visits</td>
<td>77</td>
</tr>
<tr>
<td>1-2 visits</td>
<td>591</td>
</tr>
</tbody>
</table>

This table shows the number of unique users who visited Newell Hall by the number of visits.