# Data Collection



**Method:**

Data collection was made by integrating the area under the curve of the above graph for every hour. In the following graph, the hours represent the water consumed during that hour i.e: 0.590 gallons of water were consumed from 0:00 to 0:59.

Water Consumed for Every Hour of a Weekday of an Average Household

|  |  |  |
| --- | --- | --- |
| Hour of the day | Water consumed (gal) | Water consumed (liters) |
| 0 | 0.590 | 2.233 |
| 1 | 0.623 | 2.358 |
| 2 | 0.721 | 2.729 |
| 3 | 0.950 | 3.596 |
| 4 | 1.459 | 5.523 |
| 5 | 2.475 | 9.369 |
| 6 | 3.868 | 14.642 |
| 7 | 4.868 | 18.427 |
| 8 | 5.000 | 18.927 |
| 9 | 4.423 | 16.743 |
| 10 | 3.246 | 12.287 |
| 11 | 2.640 | 10.000 |
| 12 | 2.426 | 9.183 |

|  |  |  |
| --- | --- | --- |
| Hour of the day | Water consumed (gal) | Water consumed (liters) |
| 13 | 2.606 | 9.865 |
| 14 | 2.885 | 10.921 |
| 15 | 3.196 | 12.098 |
| 16 | 3.426 | 12.969 |
| 17 | 3.623 | 13.715 |
| 18 | 3.705 | 14.025 |
| 19 | 3.640 | 13.779 |
| 20 | 3.573 | 13.525 |
| 21 | 3.410 | 12.908 |
| 22 | 3.114 | 11.788 |
| 23 | 2.770 | 10.486 |
| 24 | 1.623 | 6.143 |

Total consumed in a day on average per person: 268.239 L

Total consumed in a day on average per household : 1072.956 L