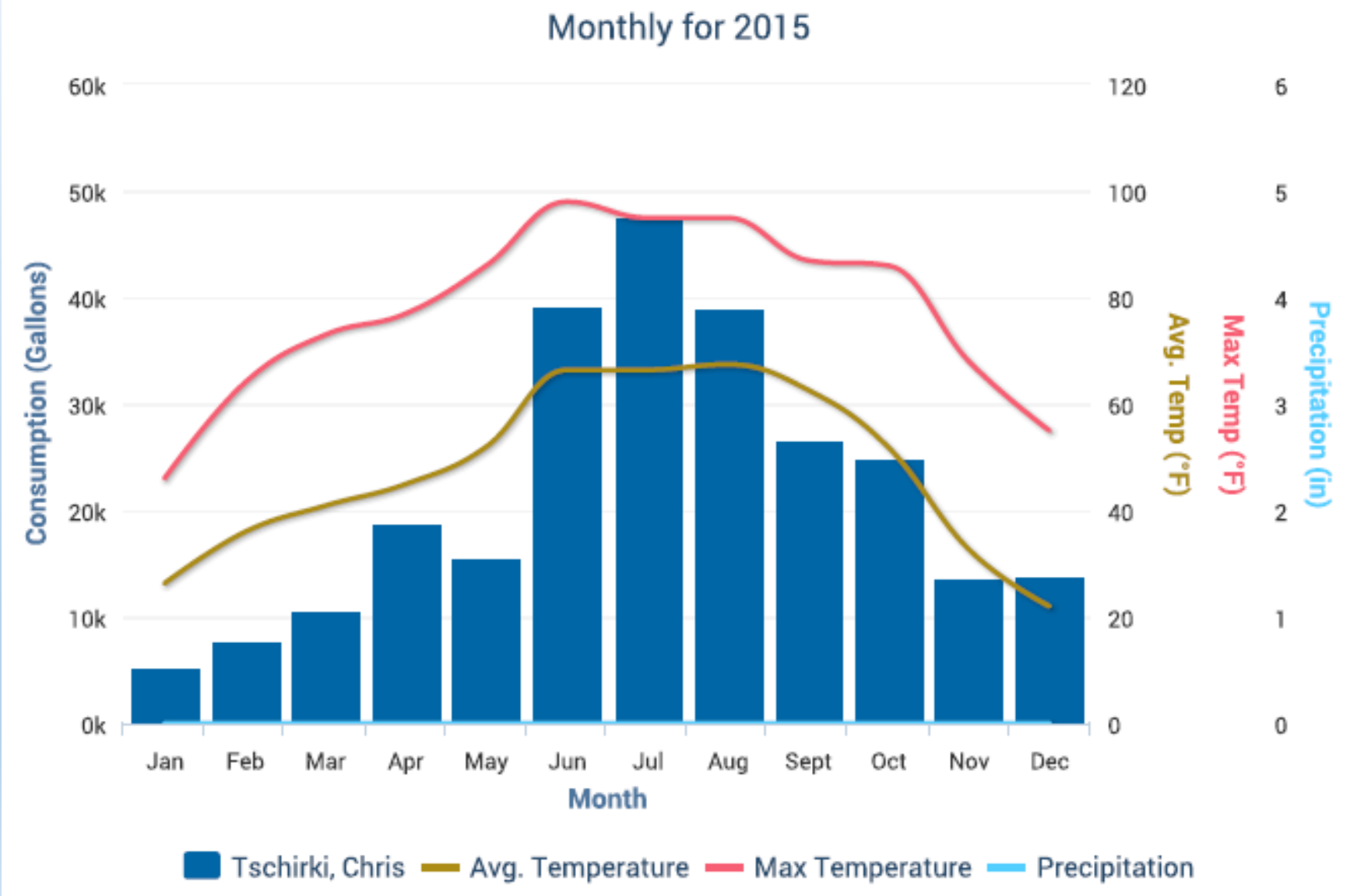
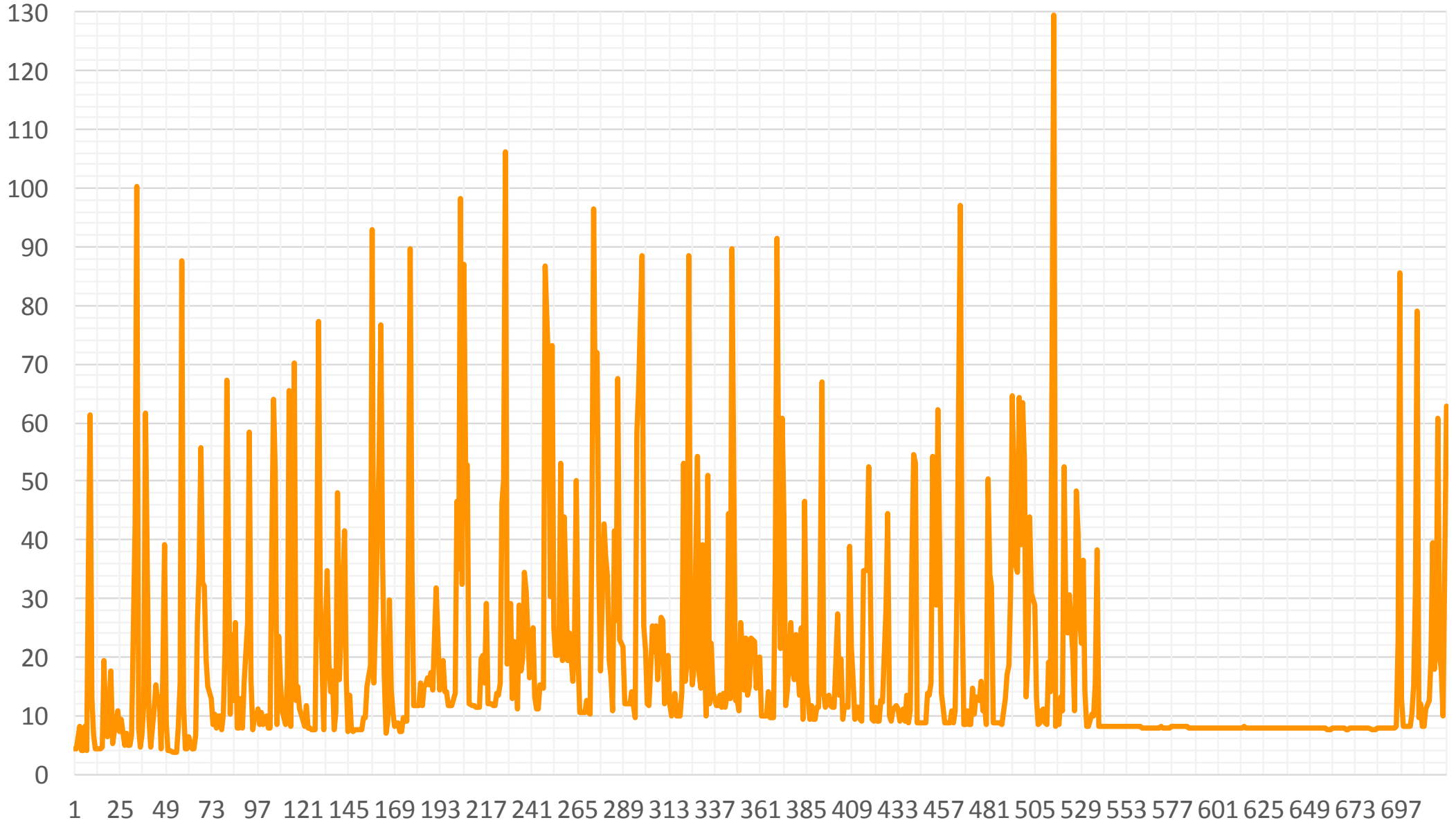
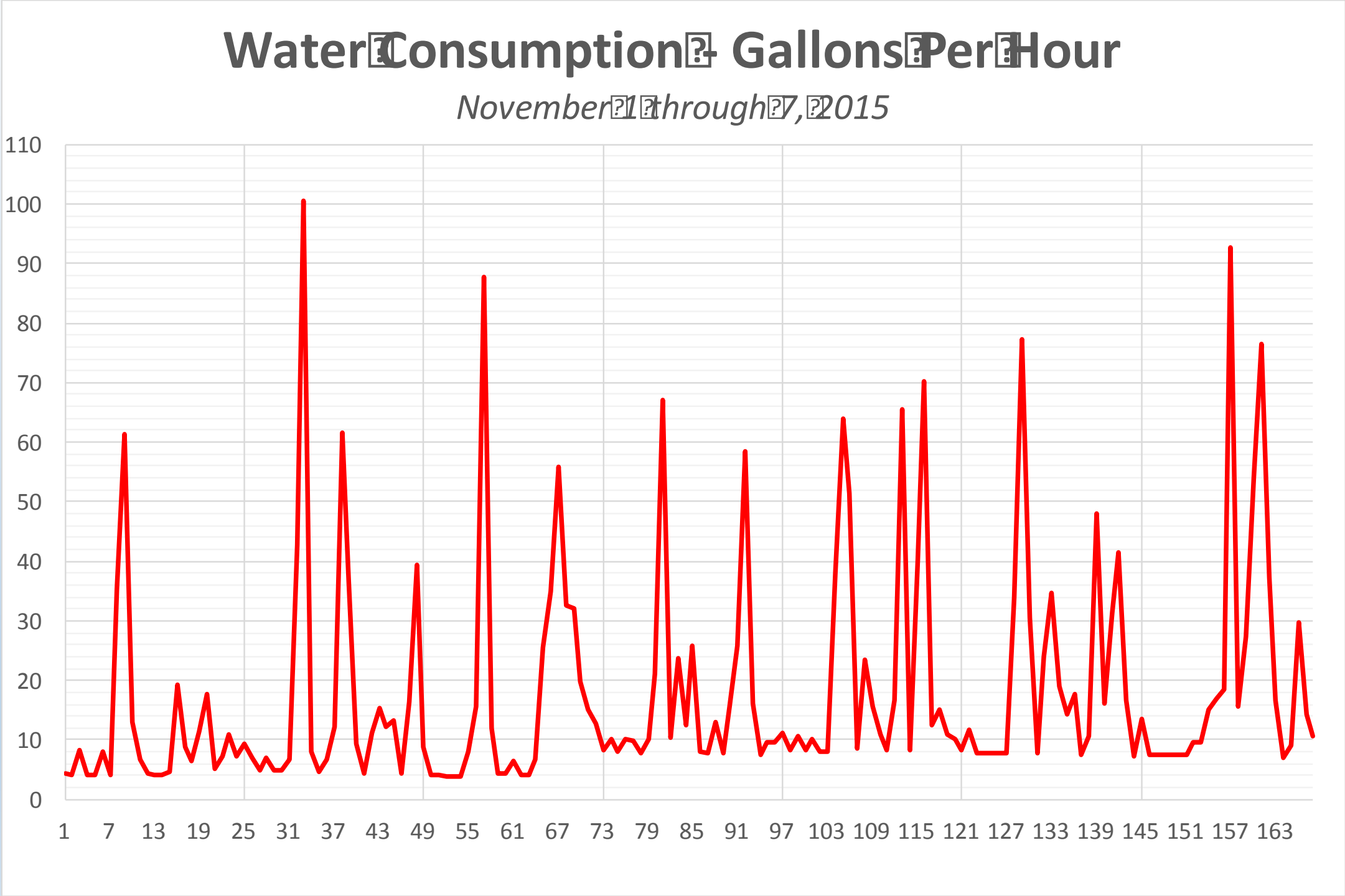
Automated Metering Infrastructure (AMI)

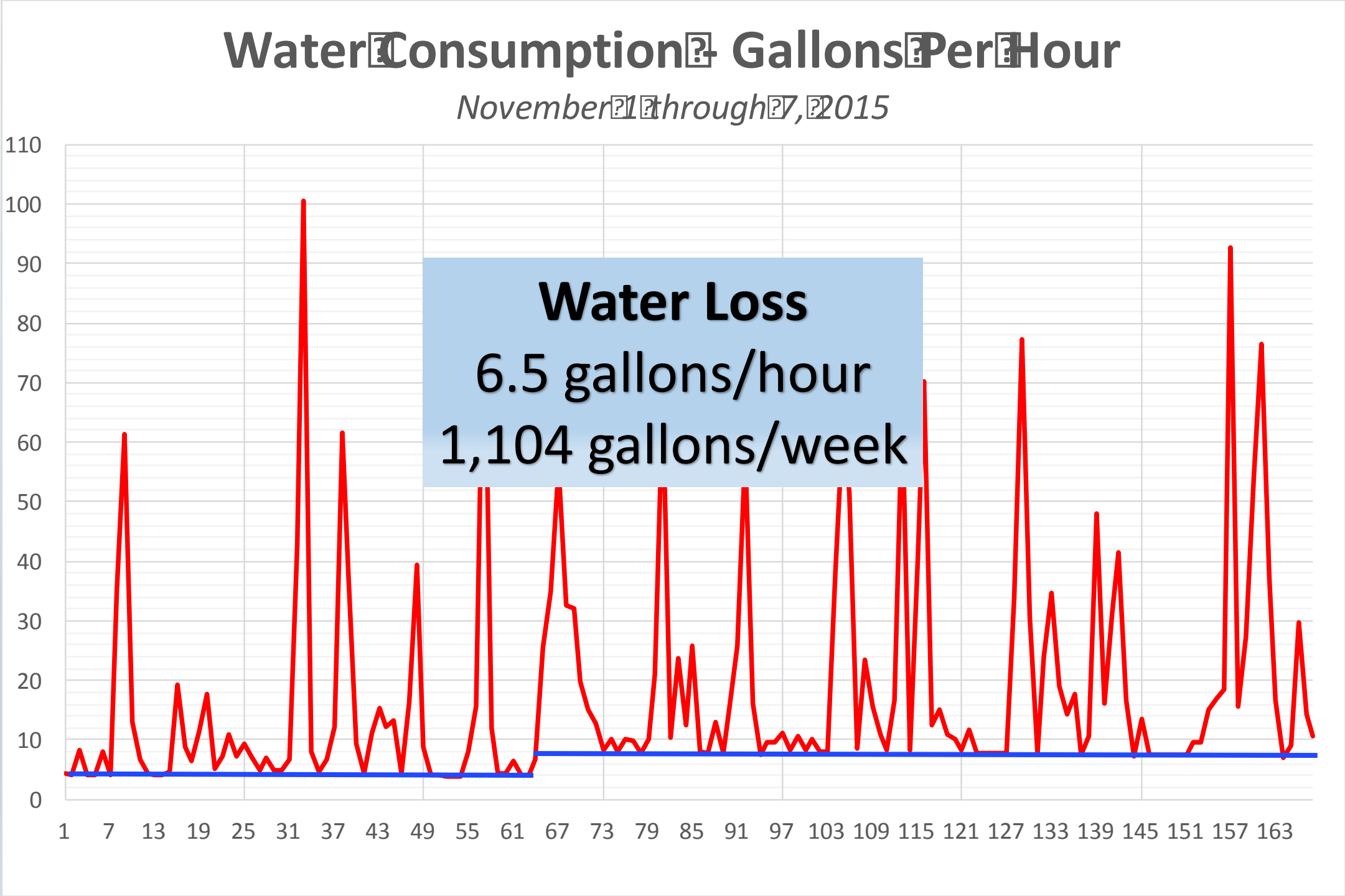


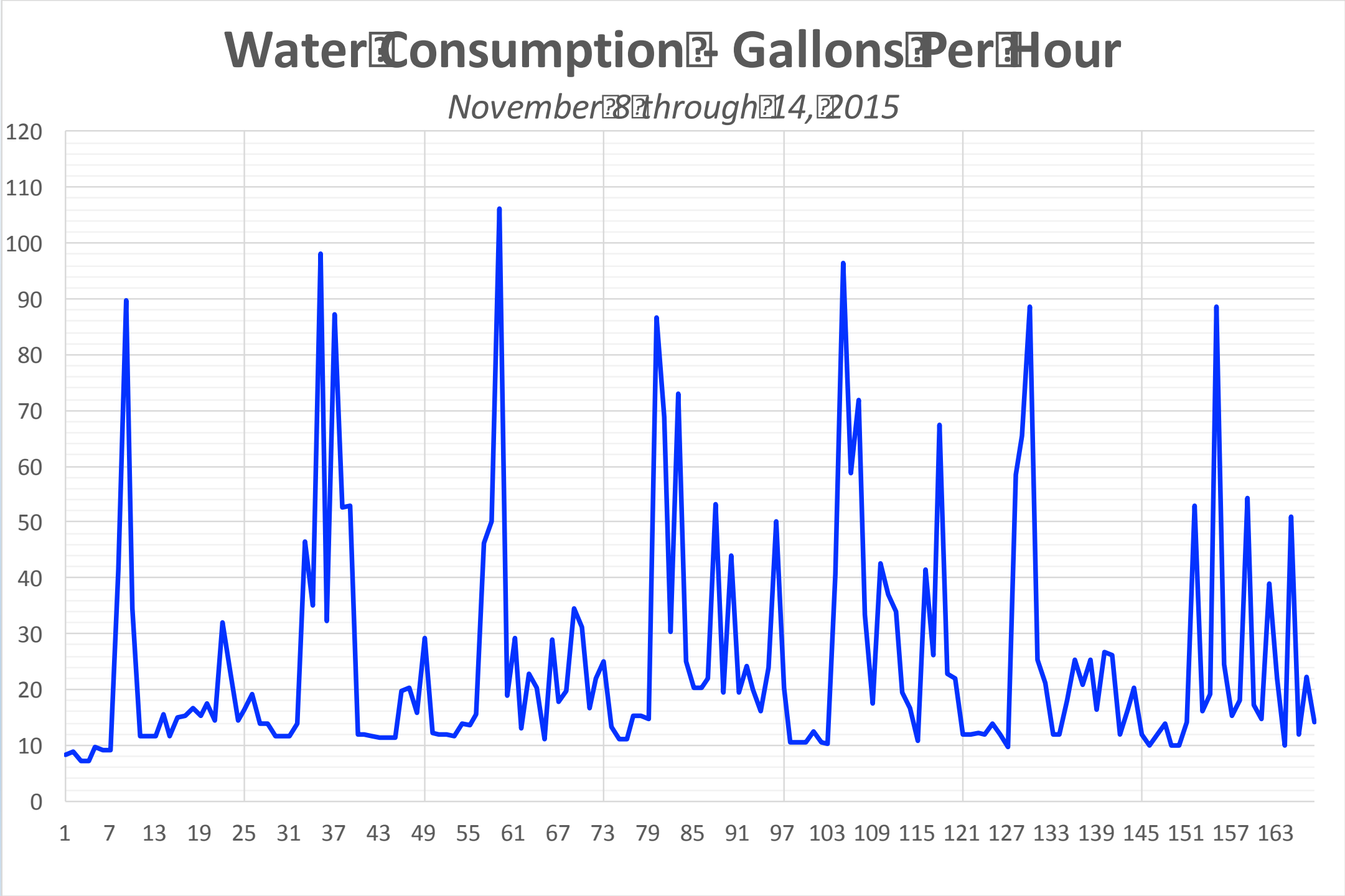
Water Consumption - Gallons Per Hour

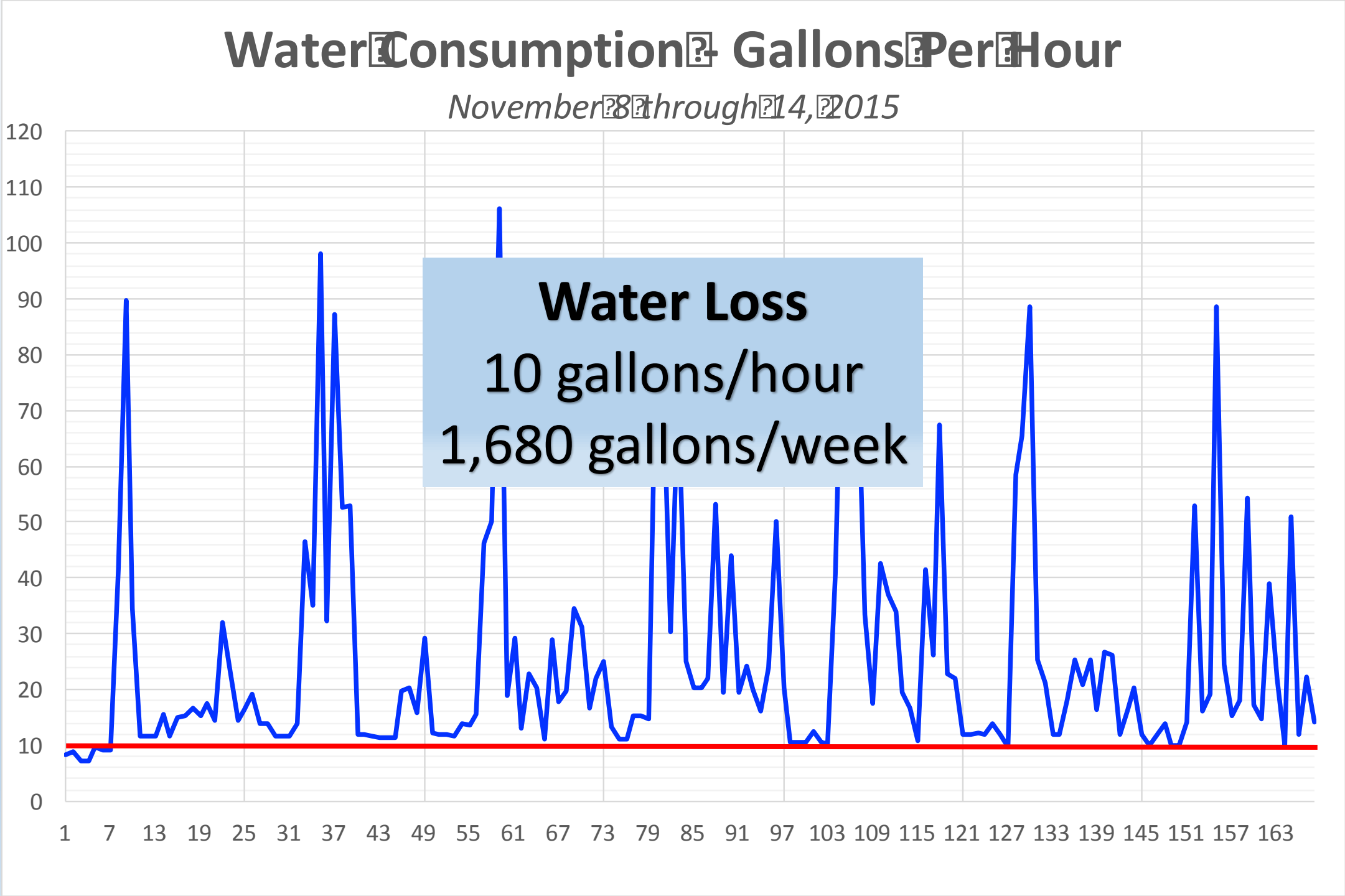
November 1 through 28, 2015

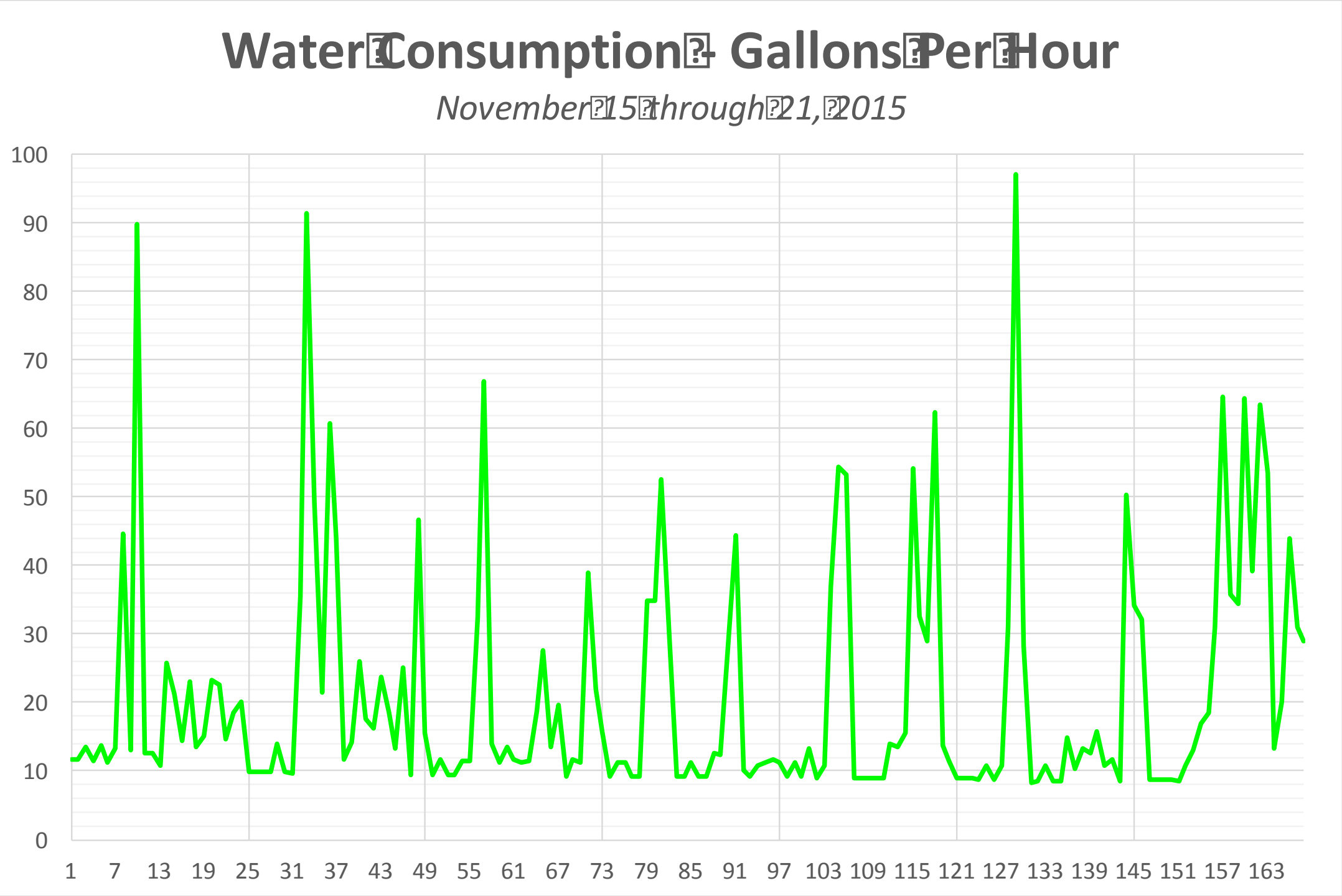



Water Consumption - Gallons Per Hour
November 1 through 7, 2015
110
100
90
80
70
60
50
40
30
20
10
0
1 7 13 19 25 31 37 43 49 55 61 67 73 79 85 91 97 103 109 115 121 127 133 139 145 151 157 163


Water Consumption - Gallons Per Hour
November 1 through 7, 2015
110
100
90
80
70
60
50
40
30
20
10
0
1 7 13 19 25 31 37 43 49 55 61 67 73 79 85 91 97 103 109 115 121 127 133 139 145 151 157 163
Water Loss
6.5 gallons/hour
1,104 gallons/week

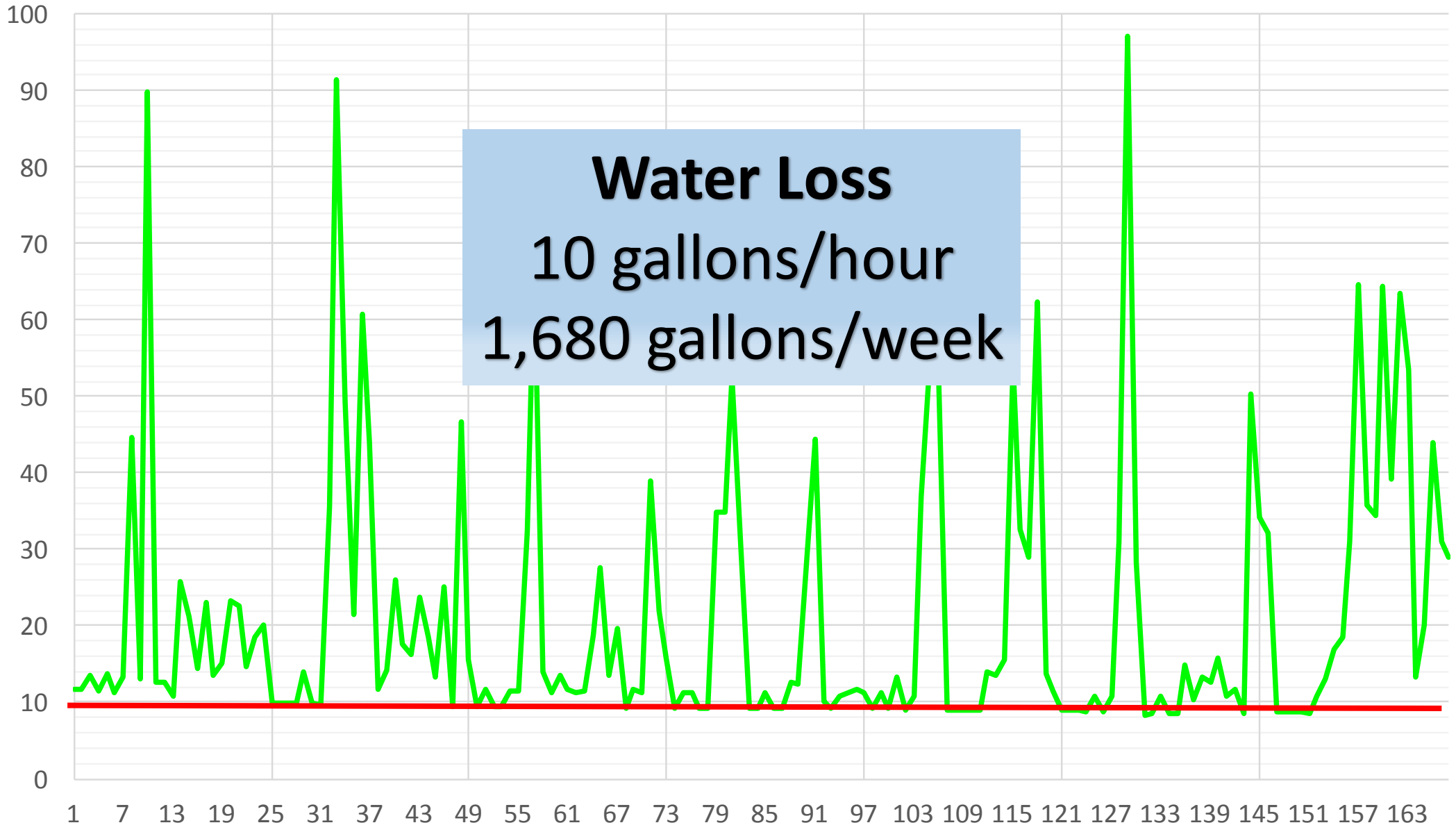

Water Consumption - Gallons Per Hour
November 8 through 14, 2015
120
110
100
90
80
70
60
50
40
30
20
10
0
1 7 13 19 25 31 37 43 49 55 61 67 73 79 85 91 97 103 109 115 121 127 133 139 145 151 157 163


Water Consumption - Gallons Per Hour
November 8 through 14, 2015
120
110
100
90
80
70
60
50
40
30
20
10
0
1 7 13 19 25 31 37 43 49 55 61 67 73 79 85 91 97 103 109 115 121 127 133 139 145 151 157 163
Water Loss
10 gallons/hour
1,680 gallons/week


Water Consumption - Gallons Per Hour
November 15 through 21, 2015
100
90
80
70
60
50
40
30
20
10
0
1 7 13 19 25 31 37 43 49 55 61 67 73 79 85 91 97 103 109 115 121 127 133 139 145 151 157 163

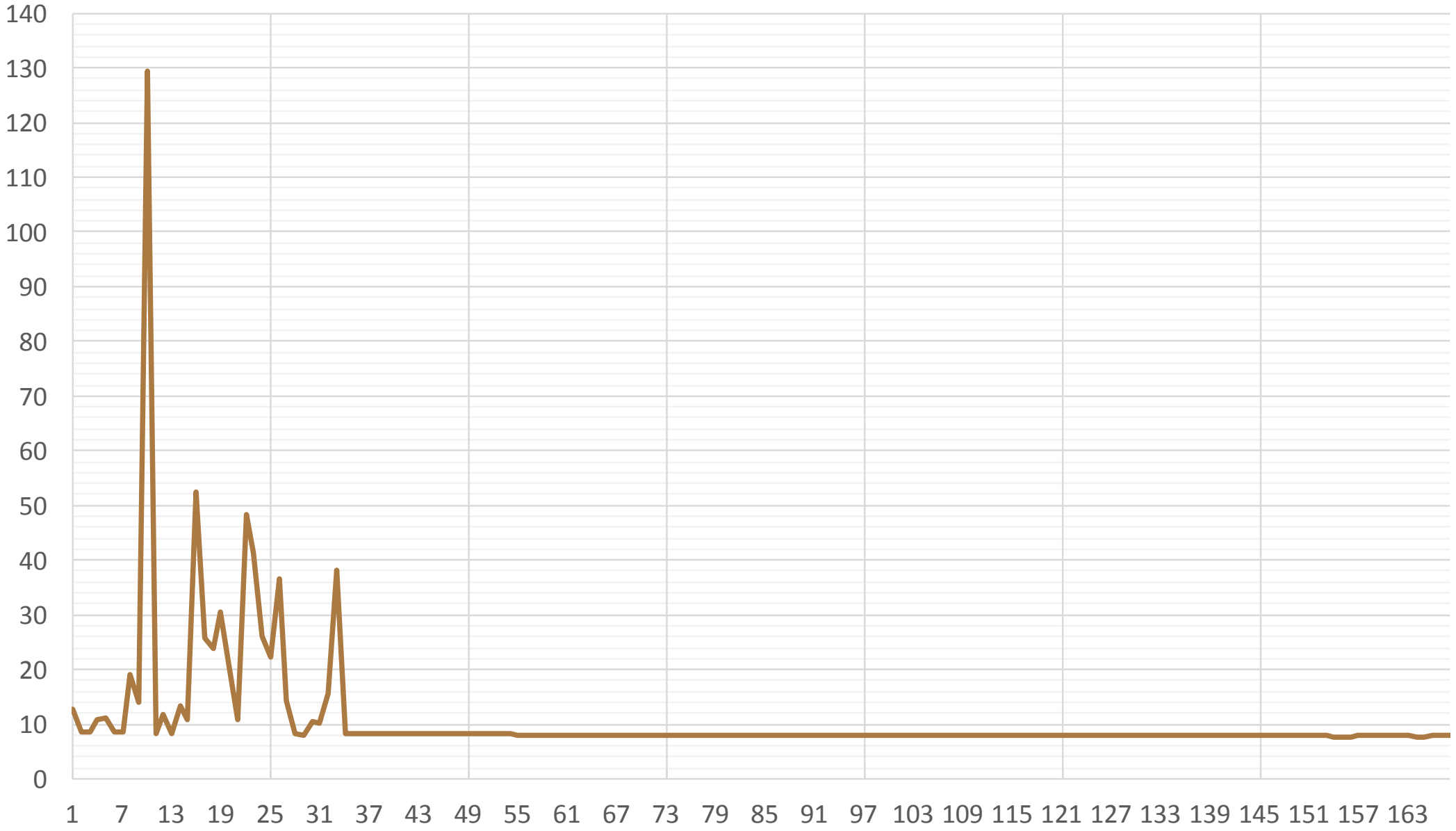
Water Consumption - Gallons Per Hour

November 15 through 21, 2015



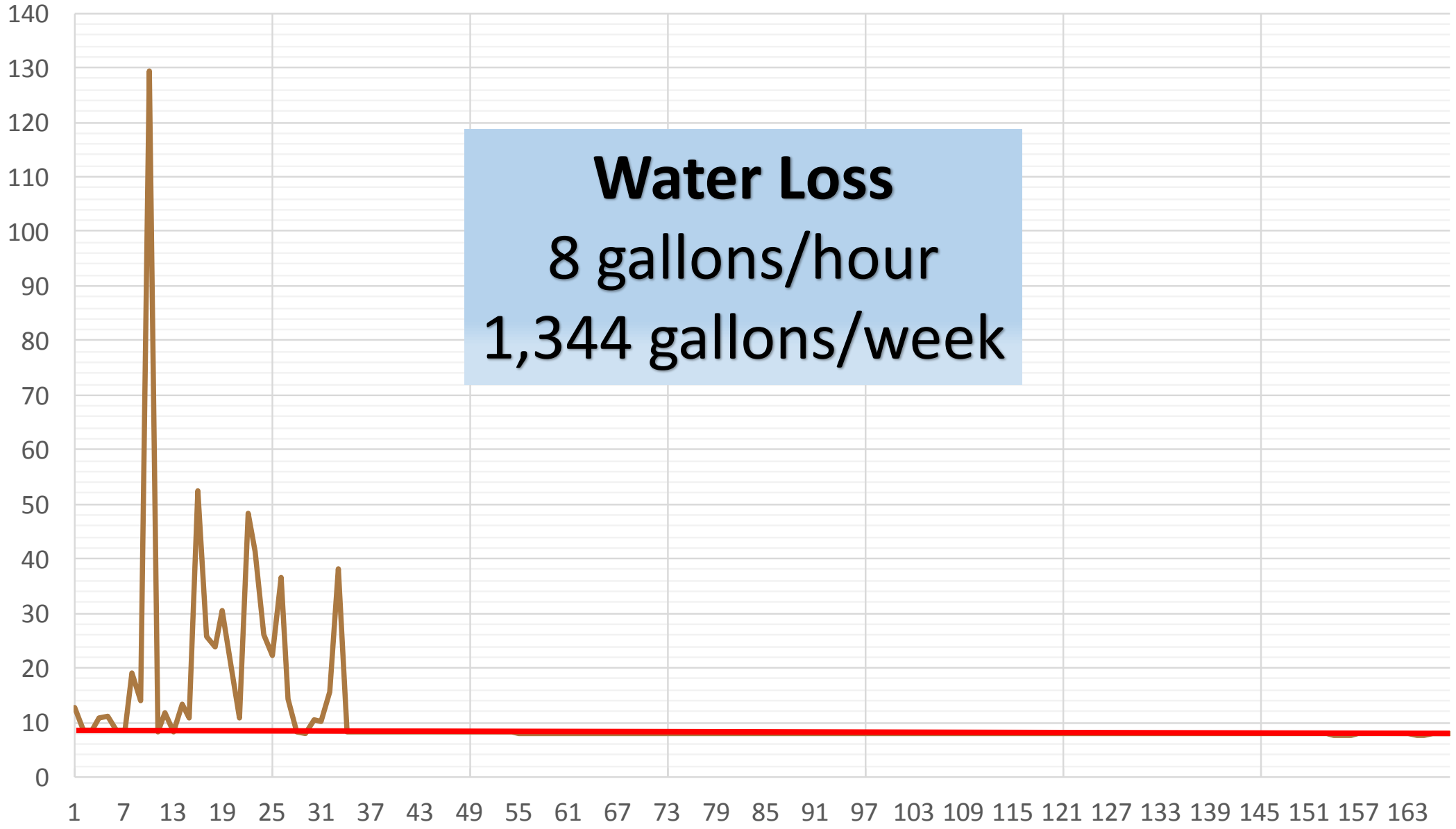
Water Consumption - Gallons Per Hour

November 22 through 28, 2015



Water Consumption - Gallons Per Hour

November 22 through 28, 2015



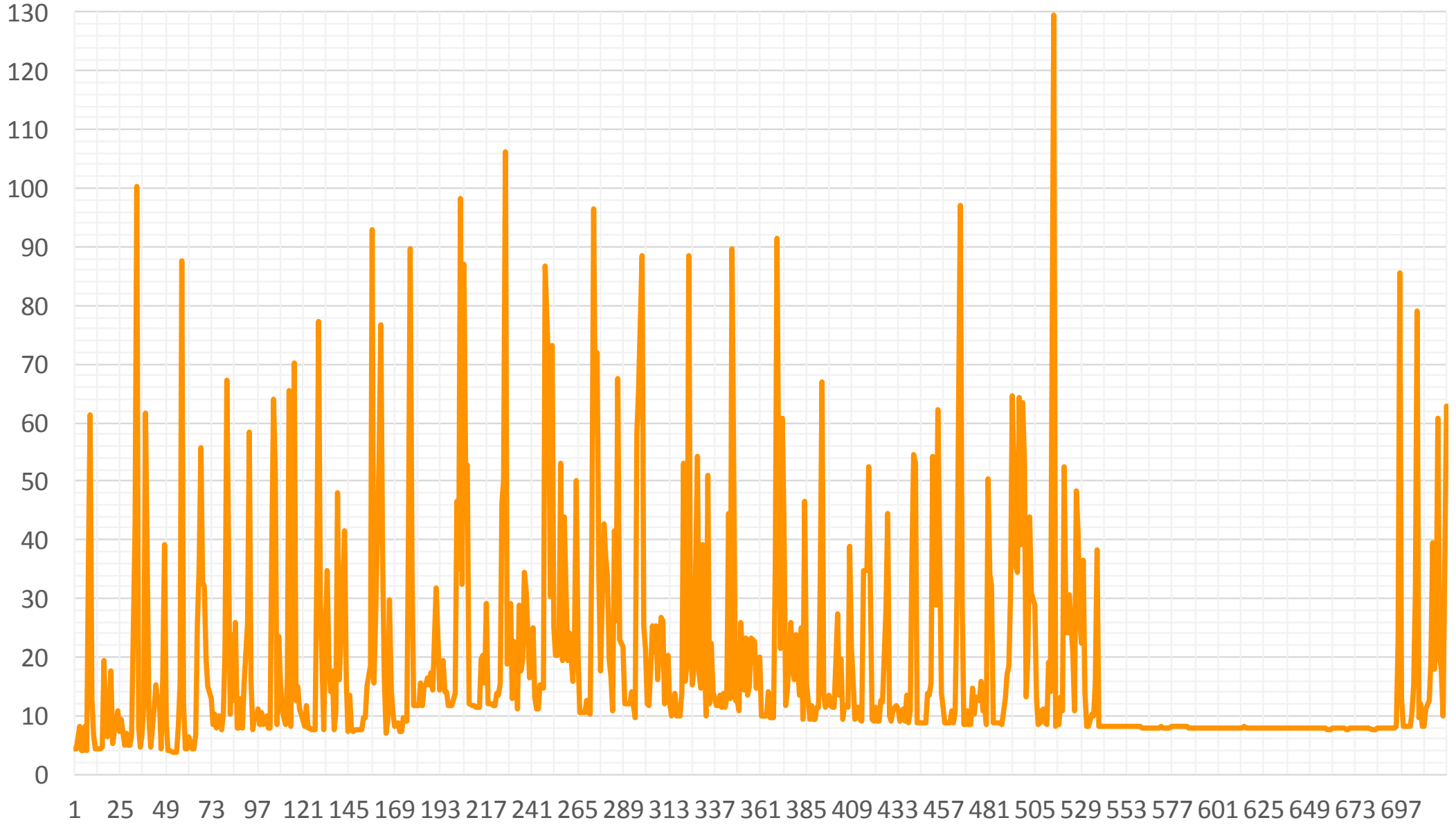
Water Loss

8 gallons/hour

1,344 gallons/week

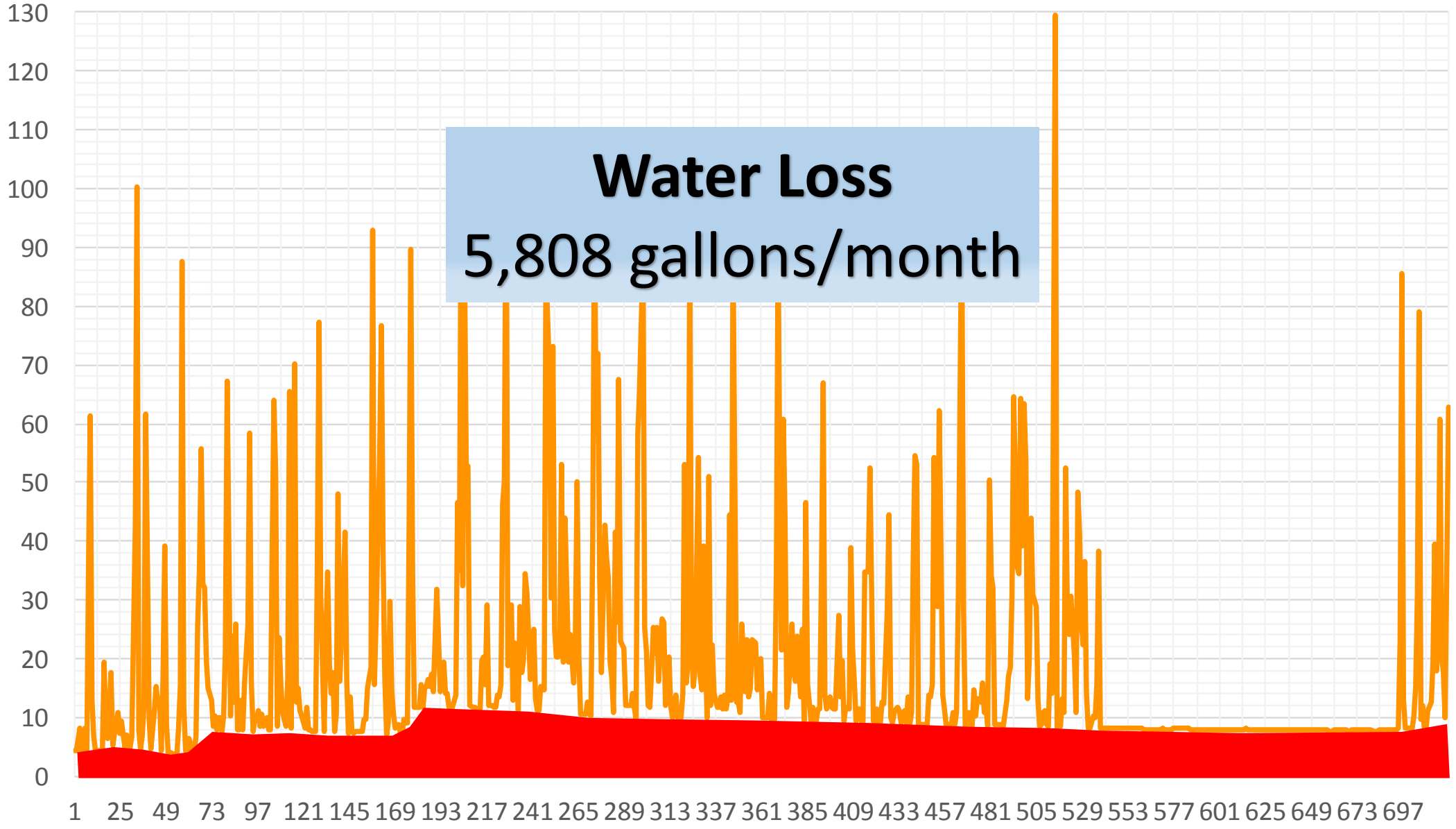
Water Consumption - Gallons Per Hour

November 1 through 28, 2015



Water Consumption - Gallons Per Hour

November 1 through 28, 2015



Leaks Detected at 4 of 19 AMI Meters

Hourly Water Loss (gallons)	Monthly Water Loss (gallons)	Sewer Monthly Cost	Sewer Annual Cost	Water Monthly Cost	Water Annual Cost	Total Annual Cost
15	10,950	$ 15.55	$ 186.59	6.35	$ 76.21	**$ 262.80**
12	8,760	$ 12.44	$ 149.27	5.08	$ 60.97	**$ 210.24**
5	3,650	$ 5.18	$ 62.20	2.12	$ 25.40	**$ 87.60**
3	2,190	$ 3.11	$ 37.32	1.27	$ 15.24	**$ 52.56**

Automated Metering Infrastructure (AMI) Benefits

- Improve Accuracy
  - Promote Fairness for Everyone
  - Winter Reads – Sewer Billing
  - Reduce Human Error
- Leak Detection
  - Outside irrigation (e.g., stop and waste valve, sprinkler valves, pipe, and heads, etc.)
  - Inside plumbing (e.g., toilets, water softeners, sinks, etc.)
- Backflow Detection
- Liability Reduction
- Customer Service
  - Usage Pattern Information (e.g., seasonal data)
- Water Conservation

Senate Bill 28
Water System Conservation Pricing

- **73-10-32.5. Culinary water pricing structure.**
  A retail water provider, as defined in Section 73-10-32, shall:
  (1) establish a culinary water rate structure that:
  (a) incorporates increasing block units of water used; and
  (b) provides for an increase in the rate charged for additional block units of water used as usage increases from one block unit to the next;
  (2) provide in customer billing notices, or in a notice that is distributed to customers at least annually, block unit rates and the customer's billing cycle; and
  (3) include individual customer water usage in customer billing notices.

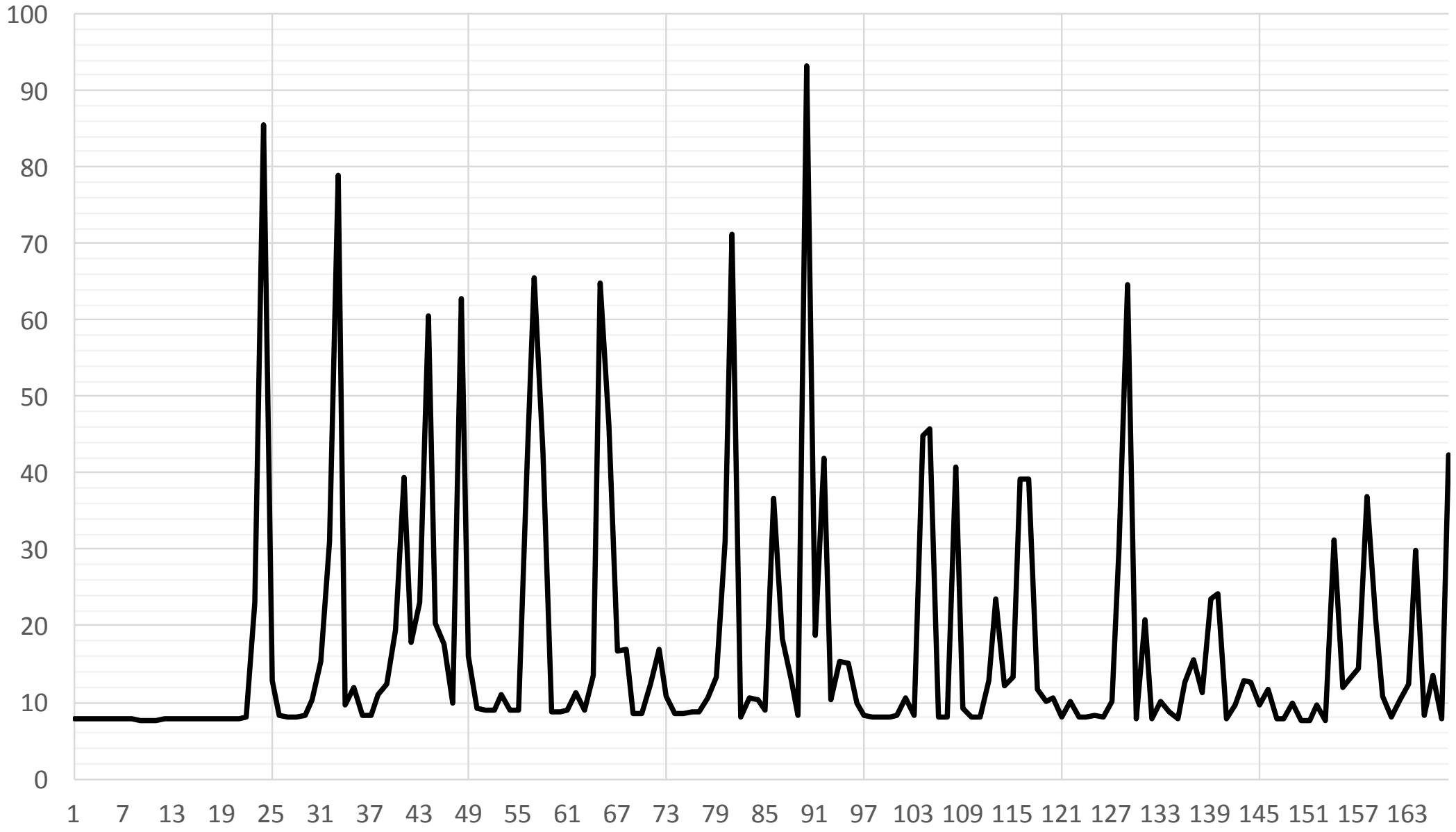
Automated Metering Infrastructure (AMI) Benefits

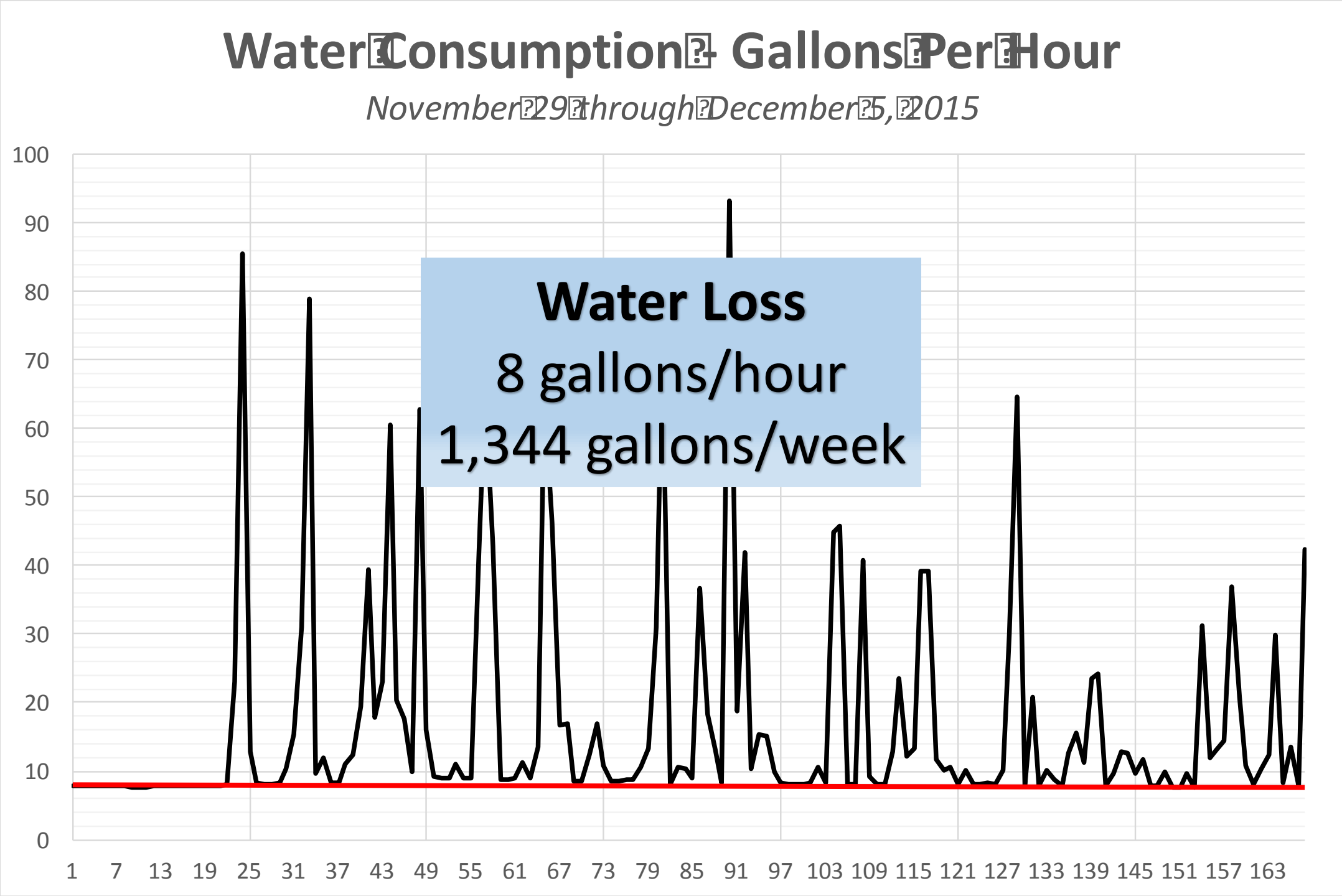
- Cars v. Horses
- Email v. Snail Mail
- Cell Phone v. Land Line v. Pony Express
- Asphalt Road v. Gravel Road
- Public Sewer Systems v. Private Septic Systems

Thoughts?

Water Consumption - Gallons Per Hour

November 29 through December 5, 2015




Water Consumption - Gallons Per Hour
November 29 through December 5, 2015
100
90
80
70
60
50
40
30
20
10
0
1 7 13 19 25 31 37 43 49 55 61 67 73 79 85 91 97 103 109 115 121 127 133 139 145 151 157 163
Water Loss
8 gallons/hour
1,344 gallons/week