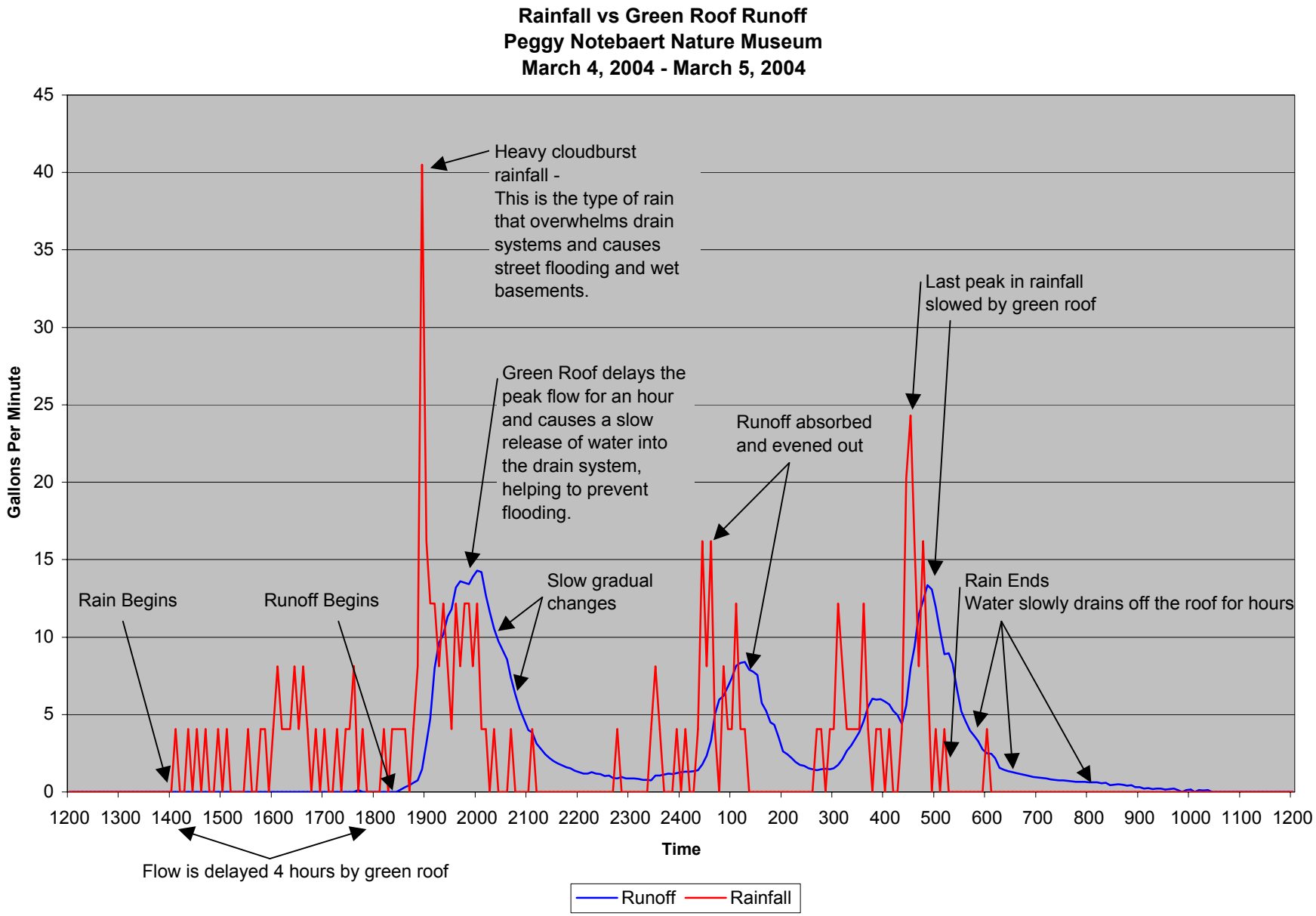
Rainfall vs Green Roof Runoff
Peggy Notebaert Nature Museum
March 4, 2004 - March 5, 2004
Gallons Per Minute
45
40
35
30
25
20
15
10
5
0
1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 100 200 300 400 500 600 700 800 900 1000 1100 1200
Time
Heavy cloudburst rainfall - This is the type of rain that overwhelms drain systems and causes street flooding and wet basements.
Last peak in rainfall slowed by green roof
Green Roof delays the peak flow for an hour and causes a slow release of water into the drain system, helping to prevent flooding.
Runoff absorbed and evened out
Slow gradual changes
Rain Begins
Runoff Begins
Rain Ends
Water slowly drains off the roof for hours
Flow is delayed 4 hours by green roof
Runoff
Rainfall