Computing average queue length at a router

Weighted running average queue length
Drop probability function: y-axis is TempP

- TempP = MaxP * (AvgLen – MinThreshold) / (MaxThreshold - MinThreshold)
- Drop probability P = TempP/(1 – count * Temp)

Top, congestion window; middle, observed throughput; bottom, buffer space taken up at the bottleneck router. The three graphs are synchronized.
Trace of TCP Vegas congestion-avoidance mechanism. Top, congestion window; bottom, expected (colored line) and actual (black line) throughput. The shaded area is the region between the α and β thresholds.