



# DØ Status Report

Marc Buehler  
University of Virginia

All Experimenters' Meeting  
15 September 2008



# Data Taking

	Delivered Lum (pb <sup>-1</sup> )	Recorded Lum (pb <sup>-1</sup> )	Efficiency (%)	Comment
8 Sep	7.20	6.74	94	Access (Replaced readout card for Forward Muon system).
9 Sep	9.20	8.57	93	
10 Sep	8.06	7.70	96	
11 Sep	7.62	6.79	89	L1 Calorimeter-Track Trigger problems.
12 Sep	8.66	6.47	75	Problems continue.
13 Sep	8.21	7.31	89	Special runs for Forward Muon system taken. Multi-system trips caused by water in the Collision Hall.
14 Sep	1.43	0.96	67	Multi-system trip. Access (Fixed water problem, CAL & CFT work).
8–14 Sep	50.4	44.5	88	



# Significant Events (1)

- L1 Calorimeter-Track (L1CalTrk) Trigger problem:
  - Thursday evening at ~2100hrs encountered problem with readout crate and trigger terms for L1CalTrk trigger system
  - Most L1CalTrk hardware is accessible, i.e. not in the Collision Hall
  - Spent Thursday evening and Friday investigating the problem
  - This caused many disruptions in our DAQ
  - On Friday the L1CalTrk trigger functionality was recovered:
    - Data from the corresponding L3 readout crate is still compromised
    - Experts are investigating the L3 monitoring issue



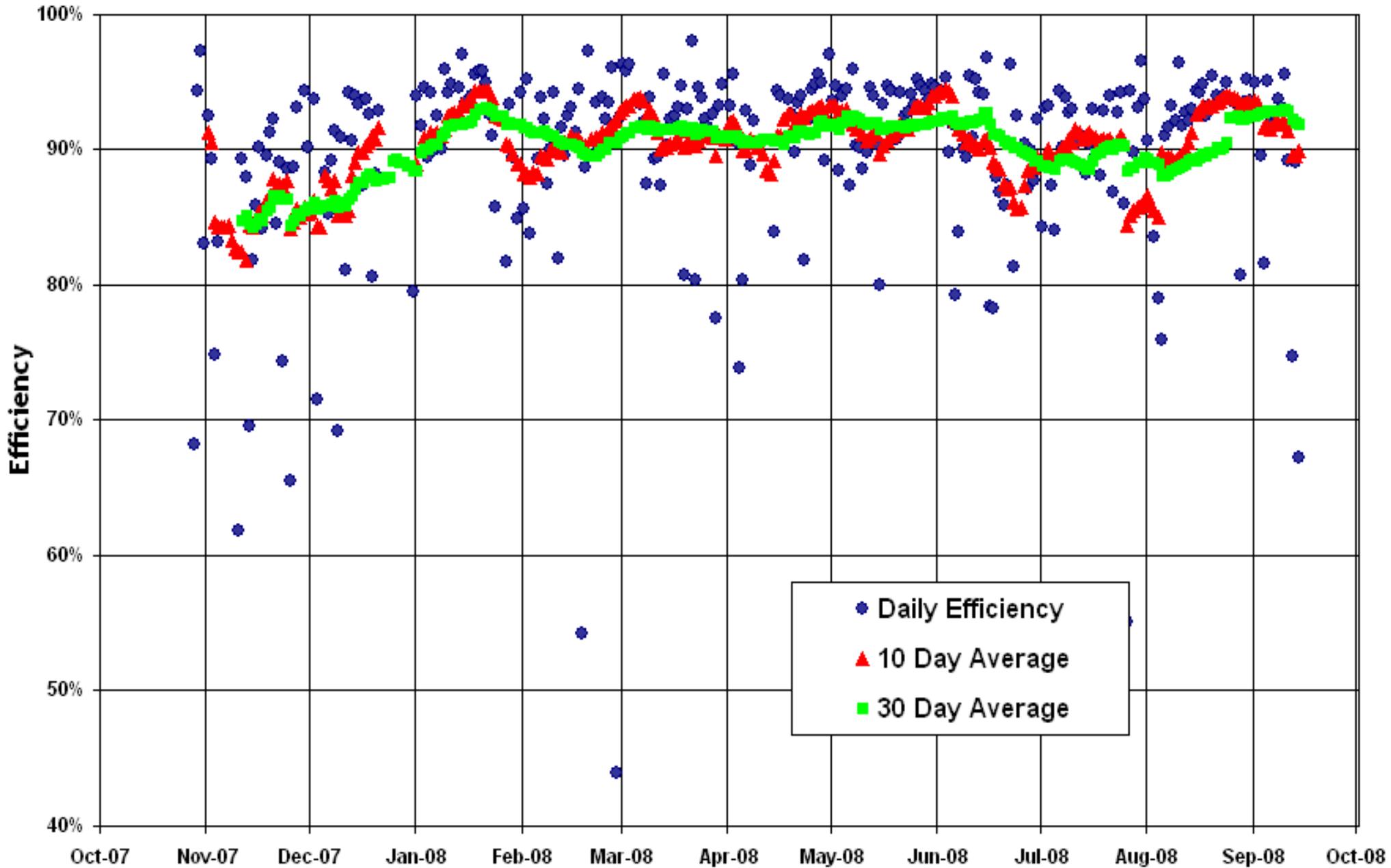
# Significant Events (2)

- Rain-related problems:
  - Saturday evening ~1800hrs had the first of a series of multi-system trips: Muon PDT HV, RMI (smoke detection), Silicon, Calorimeter
  - Had many trips of this type during store 6414
  - All sub-systems tripped at the same time
  - Sunday morning requested an access to investigate the possibility of a water problem
  - Found a small puddle of water beneath the Muon system PDT that was tripping throughout the night
  - The PDT trip triggered the RMI alarm which subsequently turned off parts of the Silicon
  - Fixed the water problem and left PDT powered off to dry.
  - Will need 30min (opportunistic) access to turn PDT back on
  - The PDT is a small detector at the bottom of Dzero
  - **Thanks to AD for giving us the access opportunity!**



# Daily Data Taking Efficiency

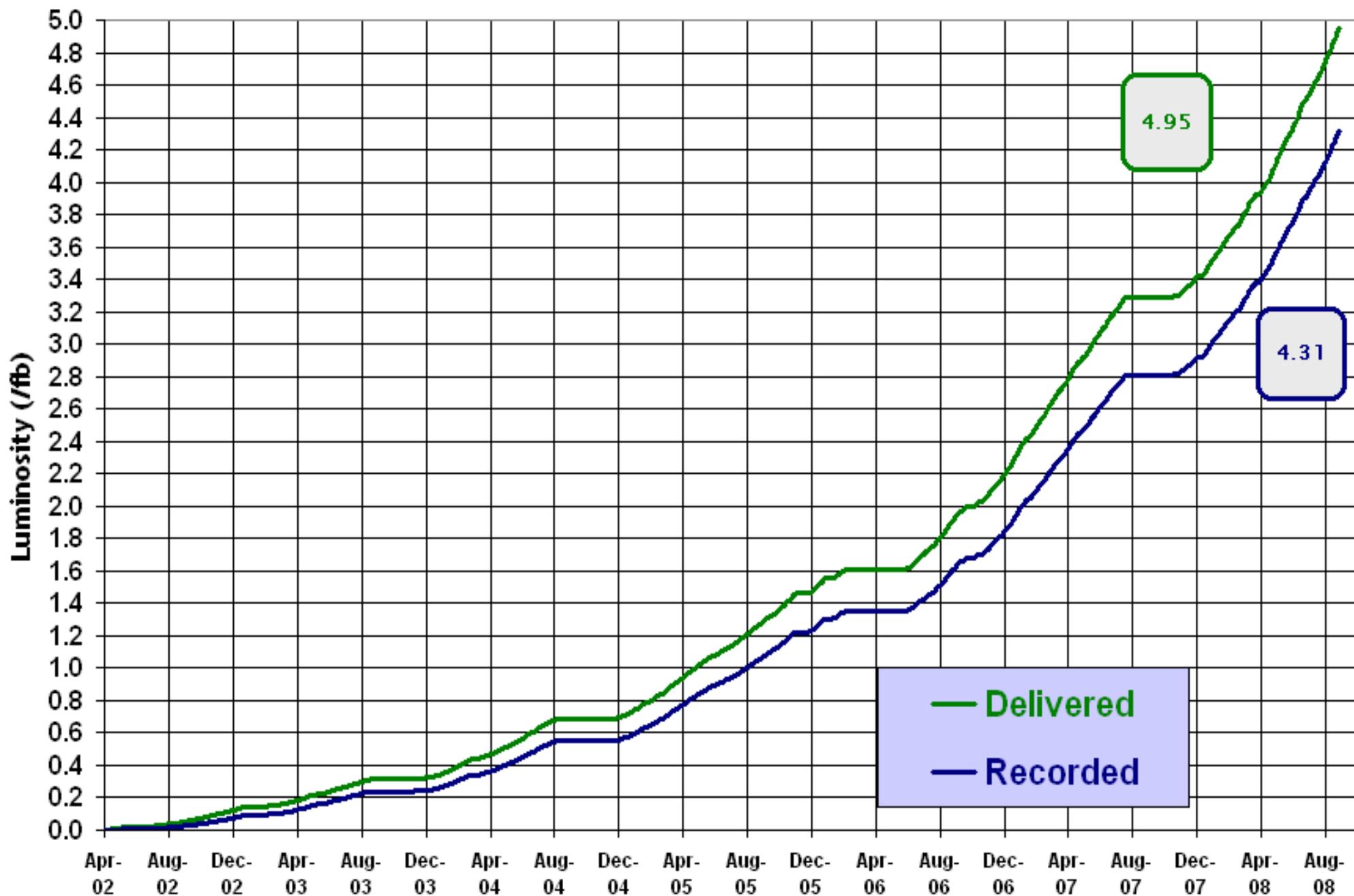
FY08 through 14 September 2008





# Run II Integrated Luminosity

19 April 2002 - 14 September 2008



15 Sep 2008

AEM

Marc Buehler