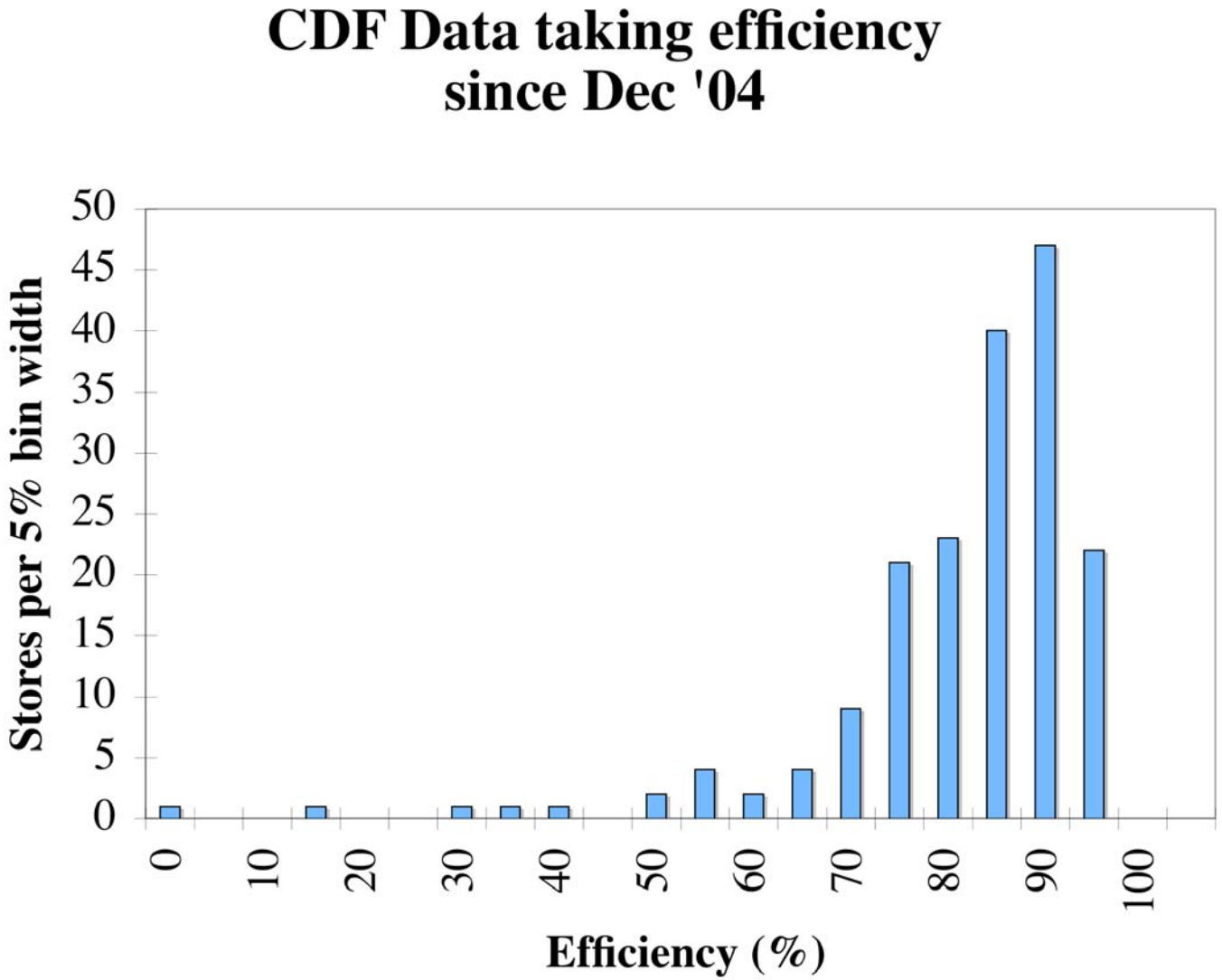
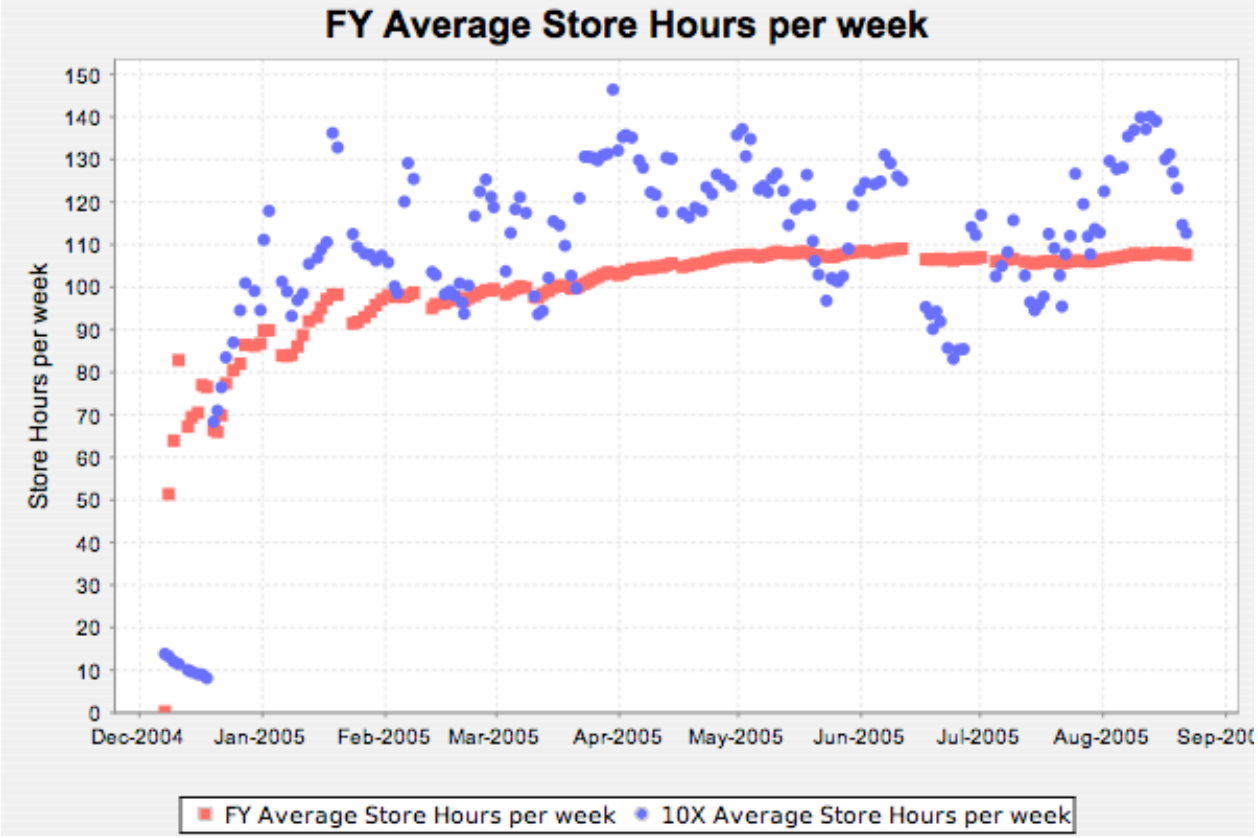


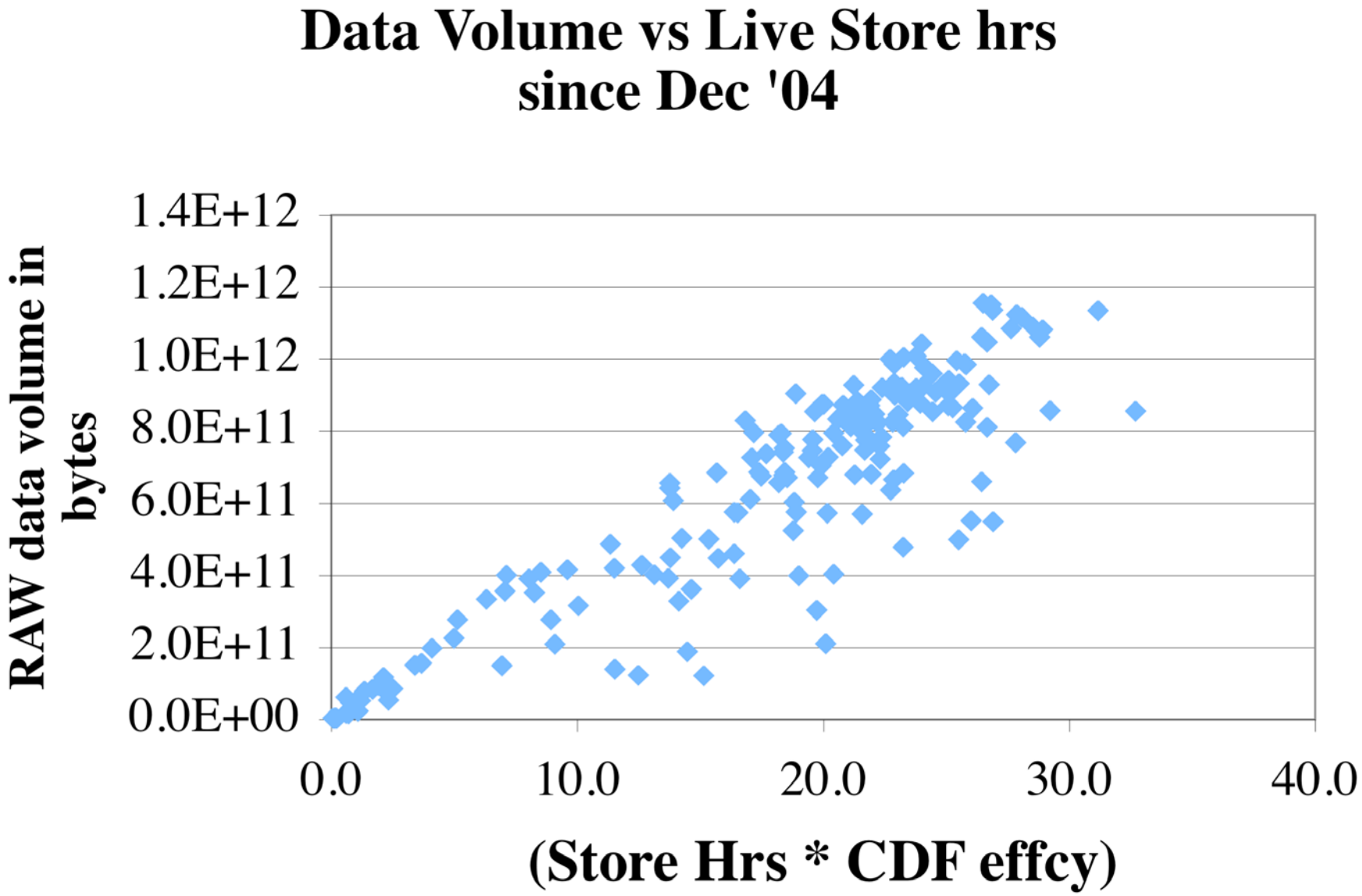
Peak ~ **90%** Avg last 20 stores - **~80%**

FY Avg Store hrs per week

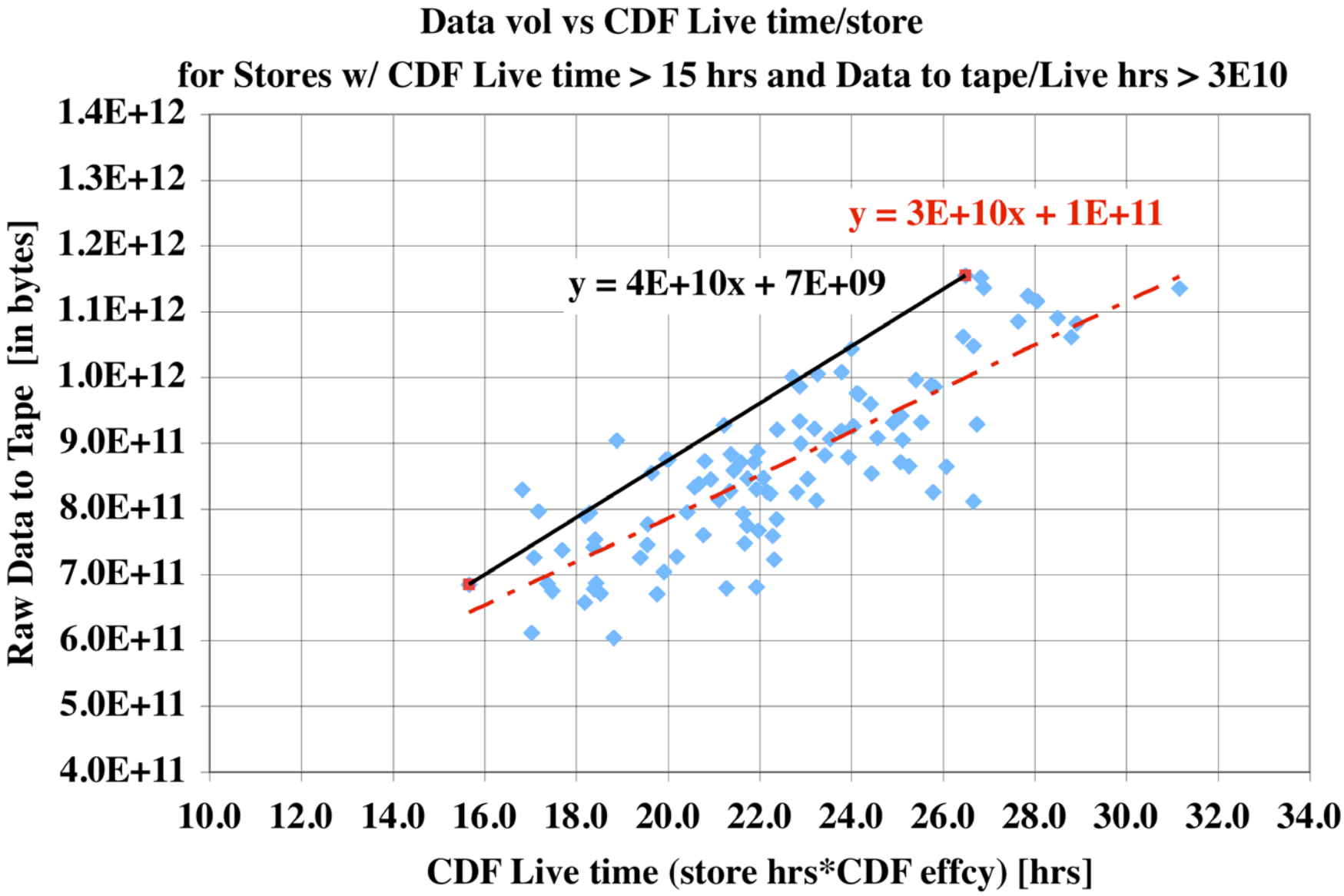
120 Store hrs per week



Amount RAW data vs CDF Live time



CDF data volume for selected stores



Raw Data numbers (range)

CDF Efficiency =	80%	90%
Avg Store hrs/ wk	120	
CDf Live time/wk (hrs)	**96**	**108**

data (in bytes) per CDF live time

Fit 1 - $= 3x10^{10}*(\text{live time}) + 10^{11}$

Fit 2 - $= 4x10^{10}*(\text{live time}) + 7x10^{9}$

(Byte/wk)	96 hrs	108 hrs
Fit 1	3.0E+12	3.3E+12
Fit 2	3.8E+12	4.3E+12

Tapes /wk 190 GB/Tape	16	23

Amount of Raw Data per week

- Current projection w/o planned upgrades
  - **16 - 23 tapes/wk** (190 GB/tape)
- Run 2B project upgrades
  - Trigger DAQ (Event Builder/L3 Farm)
    - L2 Rate from 350 Hz to 1000 Hz
  - Consumer Sever Logger
    - 35 Mbytes/s to 60 Mbytes/s
  - implies growth of 1.7
  - => **27- 39 tapes /wk**

Number Raw tapes needed Sep '05 through Dec '05

# of Weeks	Low estimate	High estimate	
6	16	23	Before upgrades
9	27	39	After upgrades
4	0	0	Shutdown
Total Raw	**339**	**489**	

Ratio of Production Data/ Raw data

	0f	0g
Raw Data in TB	34.7	33.6
Prod. data in TB	39.0	39.6
Ratio (Production/RAW)	112%	118%

Raw Data to date (in TB)	113.8	
Corresponding Prod. Data(TB)	127.9	133.8
Required # of prod tapes (so far)	**673**	**704**

Number tapes required until Jan 06

Prod. Tape (data till now)	673	704
New Raw data till Jan '06	339	489
Prod. Data (now till Jan'06)	380	557
MC tapes (15/week until	285	285
Require tapes till Jan '06	**1677**	**2035**

Tapes per week in '06	**72**	**100**