

SLO Air Pollution Control Hearing Board

Groundhog Day Redux, aka April 30, 2018

Michael S. Young

Nipomo, CA

[Proposed] Stipulated Order of Abatement

Truth or Consequences

Truth or Consequences

Legal defects...

- Finding of “no public nuisance” is false; the case has not been heard
- No operating agreement exists between Parks and SLO County
- “Force majeure” inventions are excuses for delay and non-compliance
- “Negative externality” is, in fact, a taking; State Parks takes & neighbors suffer

Truth or Consequences

Operational deficiencies...

- CARB model should not trump reality
- Model measurements are not actual air pollution measurements at real monitors
- No control or baseline monitor, such as Oso Flaco in the non-riding, vegetated dunes
- Timetable ignores the urgency; 5 years!!
- Built-in process delays (SAG, for example)
- Tying abatement to “Public Works Plan” is unnecessary and irrelevant (see CCC)

Truth or Consequences

Mathematical reality...

- Model algorithms are poor substitutes for factual measurement
- 24-hour average PM threshold for “exceedence” is inappropriate and ignores the actual distribution of PM concentrations from ODSVRA
- PM magnitudes are more important than frequencies

Actual Hourly Data from Three Monitors:

CDF, closest to the ODSVRA riding area

Mesa2, on Rt. 1 downwind of Phillips Refinery

Oso Flaco, closest to the shore in vegetated dunes

Hourly Average PM10 Concentrations at CDF, Mesa2, & Oso Flaco 3/24/2017 to 12/31/2017 (280 days)

100

Hourly distributions vary among all three monitoring sites, but vary most between Oso Flaco and both CDF and Mesa2.

- CDF
- Mesa2
- OsoFlaco

50

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

Source: SLO APCD

Note: Hours are PST

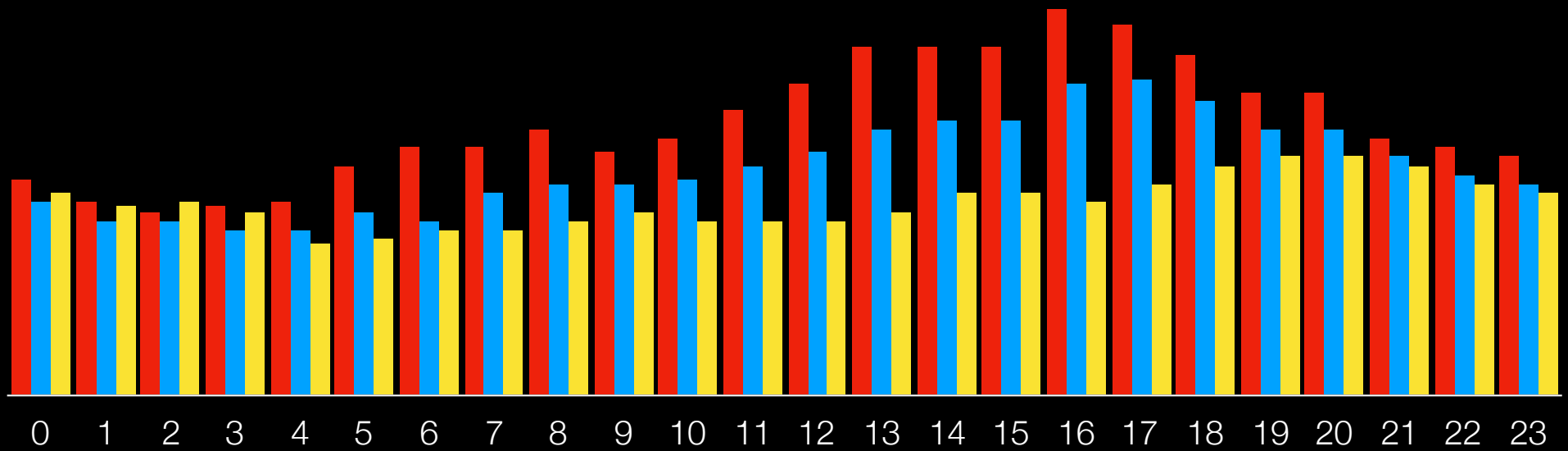
Hourly Median PM10 Concentrations at CDF, Mesa2, & Oso Flaco 3/24/2017 to 12/31/2017 (280 days)

100



Because Exceedences (24-hour average PM10 concentrations $> 50 \mu\text{g}/\text{m}^3$) happen on about 33% of the days at CDF and only 18% of the same days at Mesa2, occasional visitors are far less likely to experience significantly dusty days while full-time residents and workers experience all dusty days.

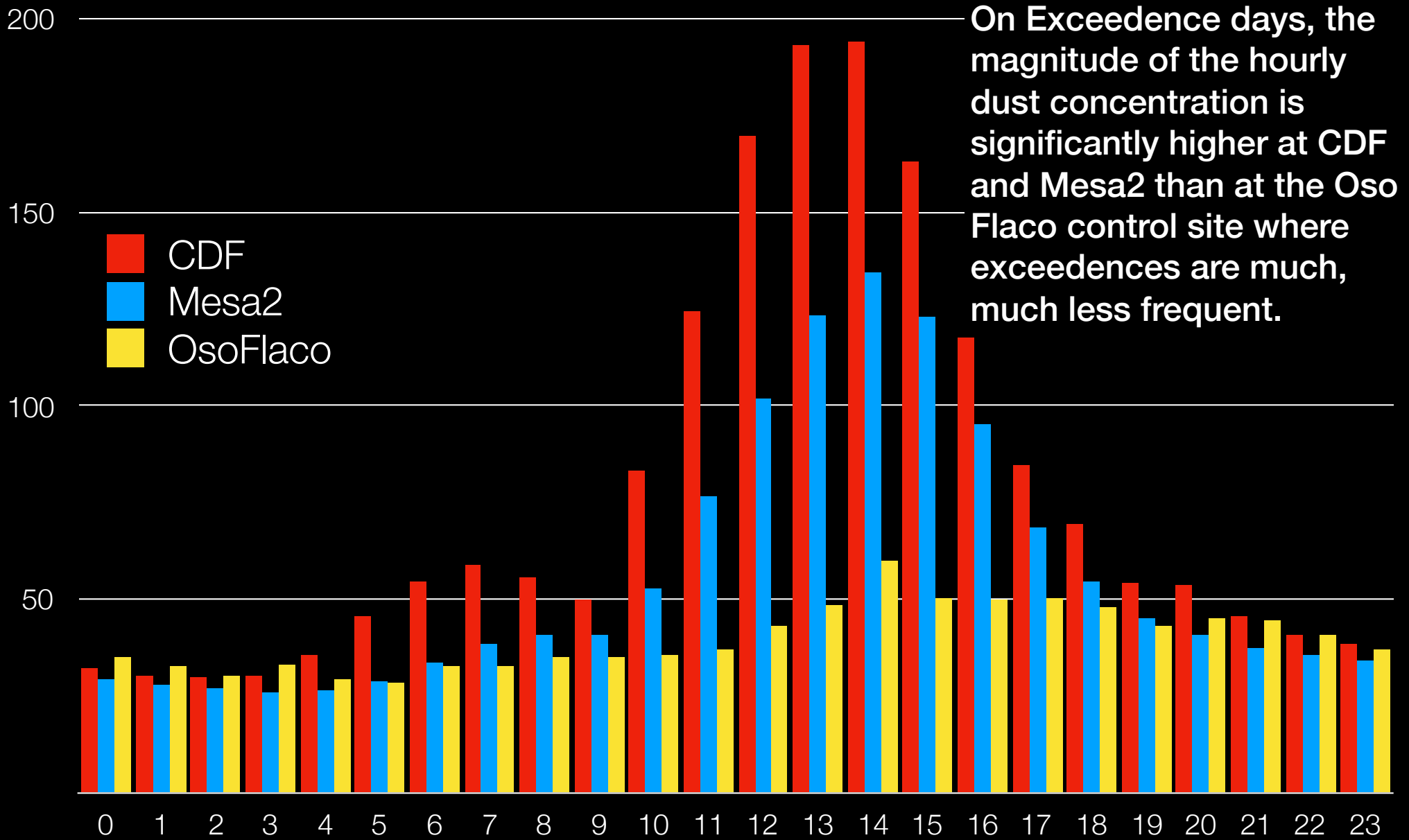
50



Source: SLO APCD

Note: Hours are PST

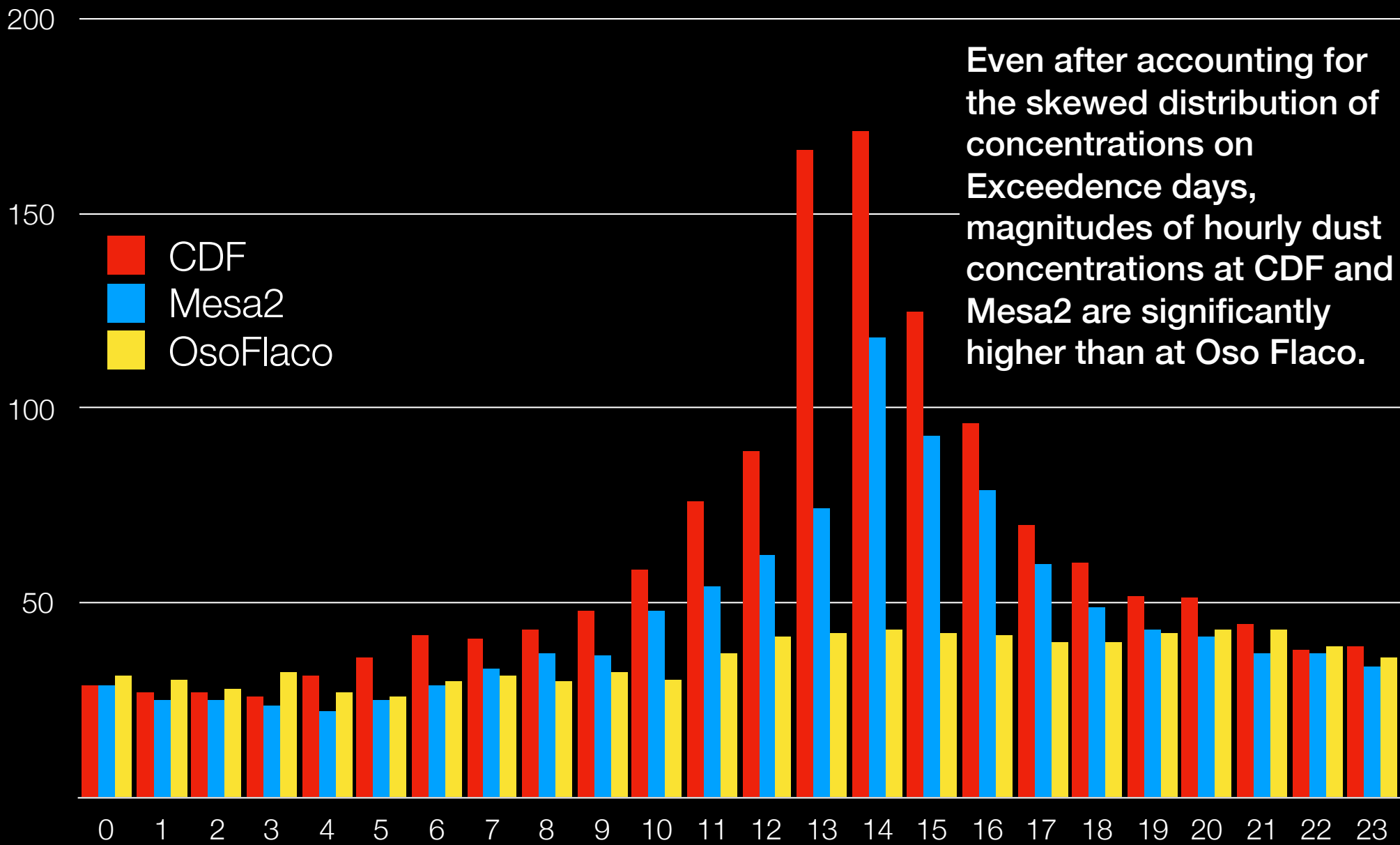
Hourly Average PM10 Concentrations at CDF, Mesa2, & Oso Flaco On 91 "Exceedence Days" at CDF



Source: SLO APCD

Note: Hours are PST

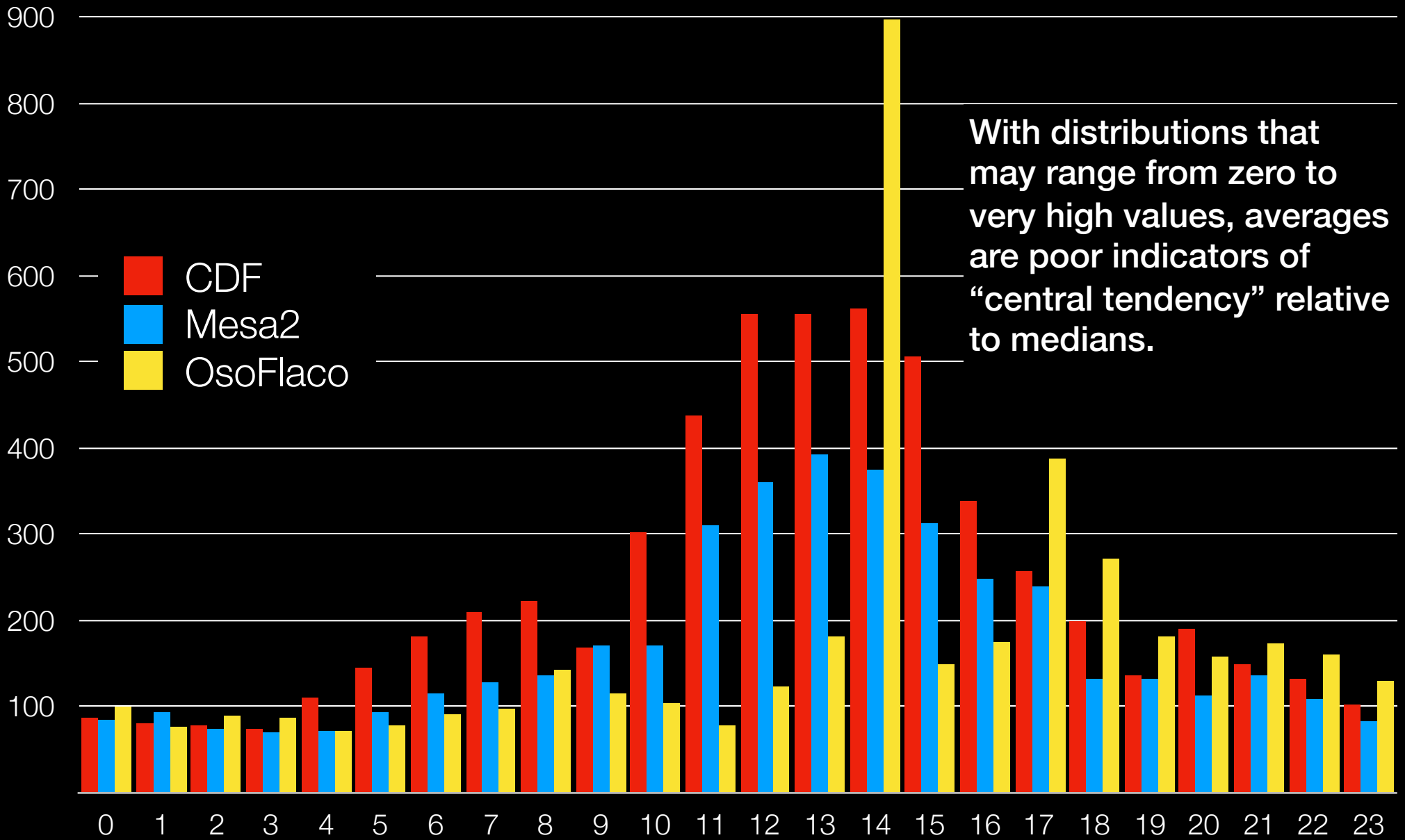
Hourly Median PM10 Concentrations at CDF, Mesa2, & Oso Flaco On 91 "Exceedence Days" at CDF



Source: SLO APCD

Note: Hours are PST

Hourly Maximum PM10 Concentrations at CDF, Mesa2, & Oso Flaco On 91 "Exceedence Days" at CDF



Source: SLO APCD

Note: Hours are PST

Exceedence Days

vs.

**Magnitude of PM10 Concentration
on Exceedence Days**

Hourly Average PM10 Concentrations at CDF, Mesa2, & Oso Flaco Exceedence Days: Number vs. Magnitude-Adjusted Number

For the Period 3/24/2017 to 12/31/2017 (280 days)

	Number of Days			Magnitude-Adj Days		
	Hours 0 to 23	Hours 10 to 17	Hours 0-9 & 18-23	Hours 0 to 23	Hours 10 to 17	Hours 0-9 & 18-23
CDF	91 PM>50	112 PM>50	42 PM>50			
Mesa2	51	69	12			
Oso Flaco	17	27	15			

Number of Exceedence Days = Days with Ave Hourly Concentration > 50 $\mu\text{g}/\text{m}^3$

Magnitude-Adj Exceedence Days = Ave Hourly Concentration on Exceedence Day / 50 $\mu\text{g}/\text{m}^3$

Hourly Average PM10 Concentrations at CDF, Mesa2, & Oso Flaco Exceedence Days: Number vs. Magnitude-Adjusted Number

For the Period 3/24/2017 to 12/31/2017 (280 days)

	Number of Days			Magnitude-Adj Days		
	Hours 0 to 23	Hours 10 to 17	Hours 0-9 & 18-23	Hours 0 to 23	Hours 10 to 17	Hours 0-9 & 18-23
CDF	91 PM>50	112 PM>50	42 PM>50	141 PM=77	298 PM=133	52 PM=62
Mesa2	51	69	12	68 PM=67	158 PM=114	14 PM=58
Oso Flaco	17	27	15	21 PM=62	40 PM=74	18 PM=60

Number of PM10 Exceedence Days = Days with Ave Hourly Concentration > 50 $\mu\text{g}/\text{m}^3$

Magnitude-Adj PM 10 Exceedence Days = Ave Hourly Concentration on Exceedence Day / 50 $\mu\text{g}/\text{m}^3$

Ratio of PM10 Exceedence Days at CDF, Mesa2, & Oso Flaco Baseline Control is Oso Flaco Indexed to 100

For the Period 3/24/2017 to 12/31/2017 (280 days)

	Number of Days			Magnitude-Adj Days		
	Hours 0 to 23	Hours 10 to 17	Hours 0-9 & 18-23	Hours 0 to 23	Hours 10 to 17	Hours 0-9 & 18-23
CDF	535 PM>50	415 PM>50	280 PM>50	671 PM=77	745 PM=133	289 PM=62
Mesa2	300	256	80	324 PM=67	395 PM=114	78 PM=58
Oso Flaco	100	100	100	100 PM=62	100 PM=74	100 PM=60

Number of PM10 Exceedence Days = Days with Ave Hourly Concentration > 50 $\mu\text{g}/\text{m}^3$

Magnitude-Adj PM10 Exceedence Days = Ave Hourly Concentration on Exceedence Day / 50 $\mu\text{g}/\text{m}^3$

Truth or Consequences

Fatal flaws in the SOA...

- **No** true responsibility and no urgency
- **No** goal to reduce air pollution levels to ambient, background levels (e.g. Oso Flaco)
- **No** appreciation for the hourly distribution of PM concentrations or their magnitudes
- **No** measurement metrics based on real data
- **No** consequences for non-compliance
- **No** effective dispute resolution scheme

JUST SAY NO...

**To this unresponsive,
ineffective, and insulting SOA is
unworthy of your signatures.**

**The citizens of SLO County
deserve and demand better.**