Kansas City Ozone Update

Clean Air Act Advisory Group

May 1, 2006

Thomas Gross, Chief

Monitoring and Planning Section

Current Status

- Maintenance plan being prepared
  - Due to EPA by June 15, 2007
  - Baseline emission inventory for 2002
  - Emission inventory grown to 2014
  - Photochemical modeling to follow
- Contingency measures being developed
- Clean Air Action Plan
- Other issues
  - Ethanol blends

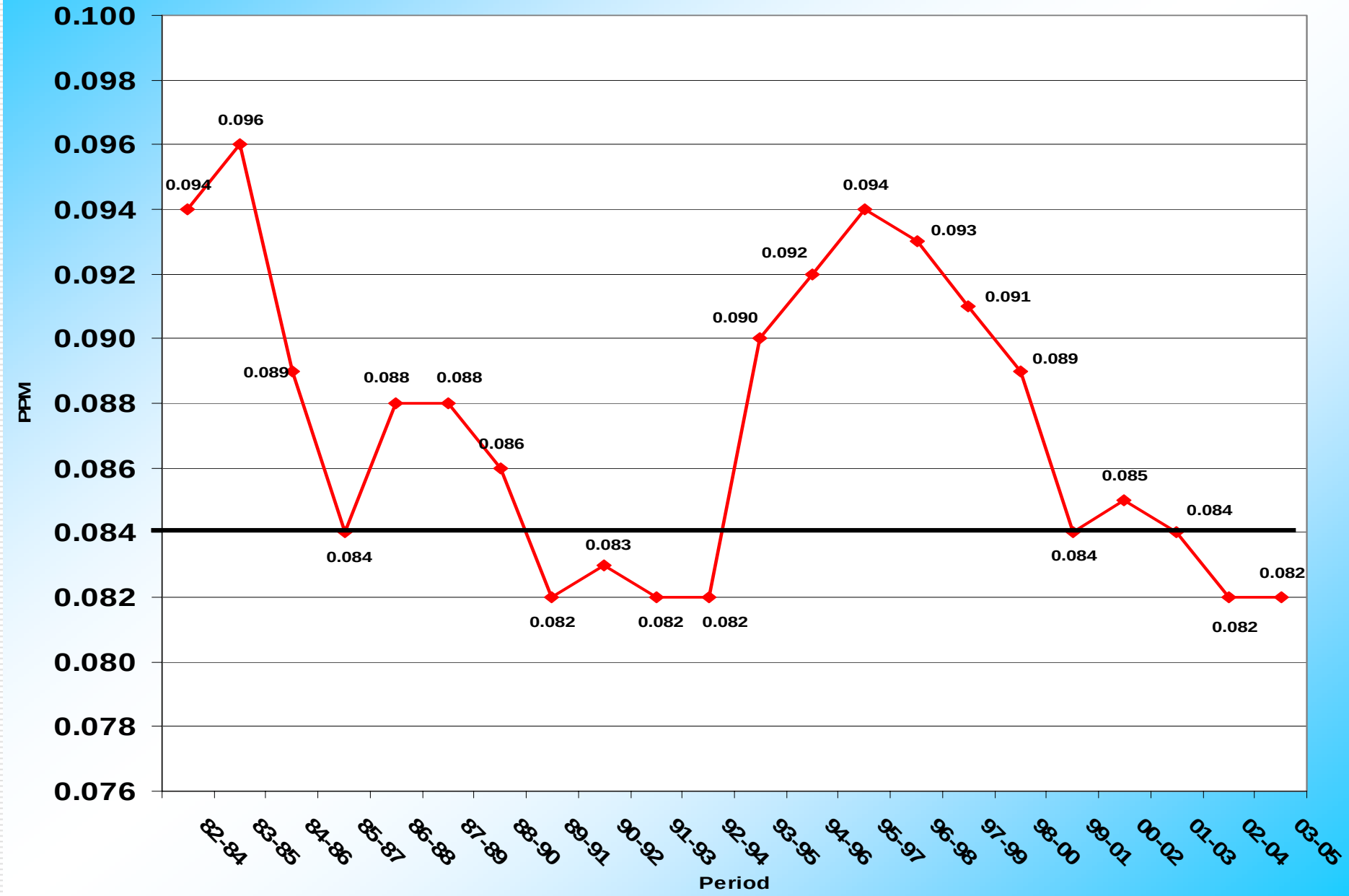
Contingency measures being considered

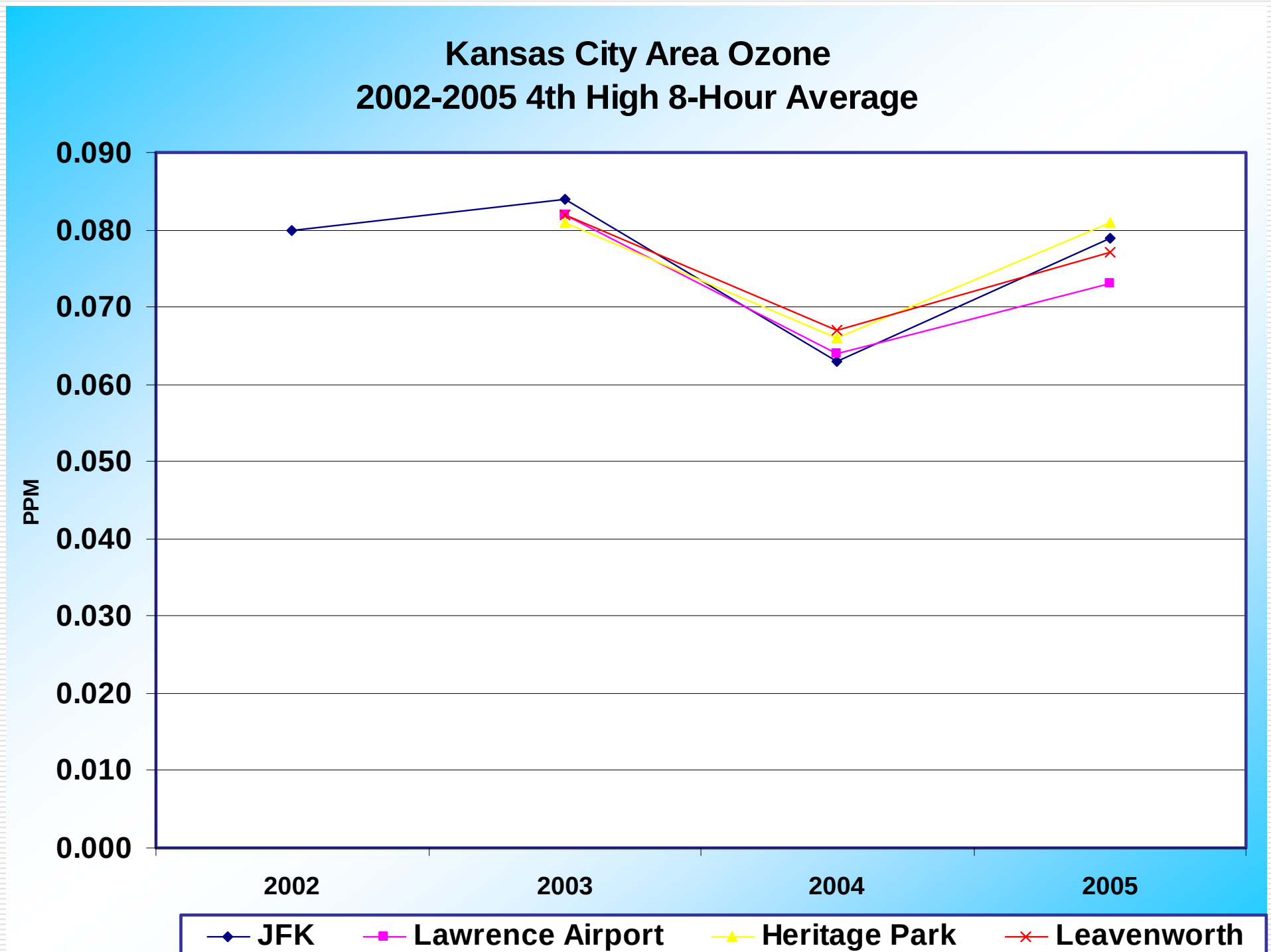
- ***RACT for existing NOX sources (over 100 tons)***
- ***Regional NOX SIP for KS***
- ***Target highly reactive VOCs***
- ***Target remaining large VOC emitters for cost-effective VOC reductions***
- ***Low emissions roadway paints***
- ***Ban open burning during ozone season***
- ***Locomotive/railyard NOx reductions***

Contingency measures being considered

- ***Vehicle fleets - time-of-day refueling; gas cap program; idling reduction***
- ***Voluntary Lawn & garden emission reduction programs***
- ***High emitter vehicle testing/repair program***
- ***Diesel engine retrofits and chip reflash***
- ***Alternative fuels and vehicle programs (regulatory or voluntary)***
- ***Truck stop electrification***
- ***Gas cap replacement programs***

8-Hour Ozone Design Values
Kansas City MSA

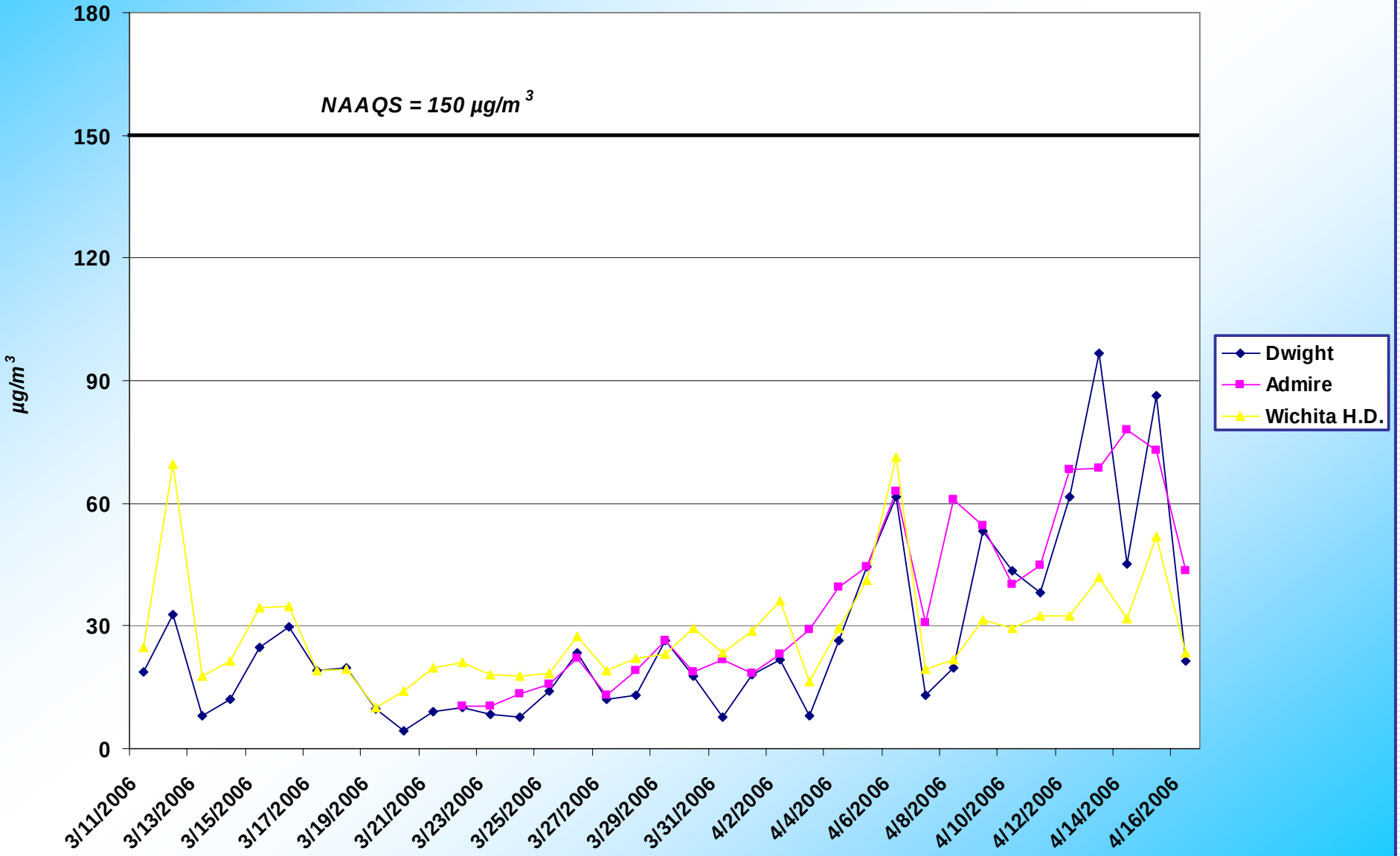
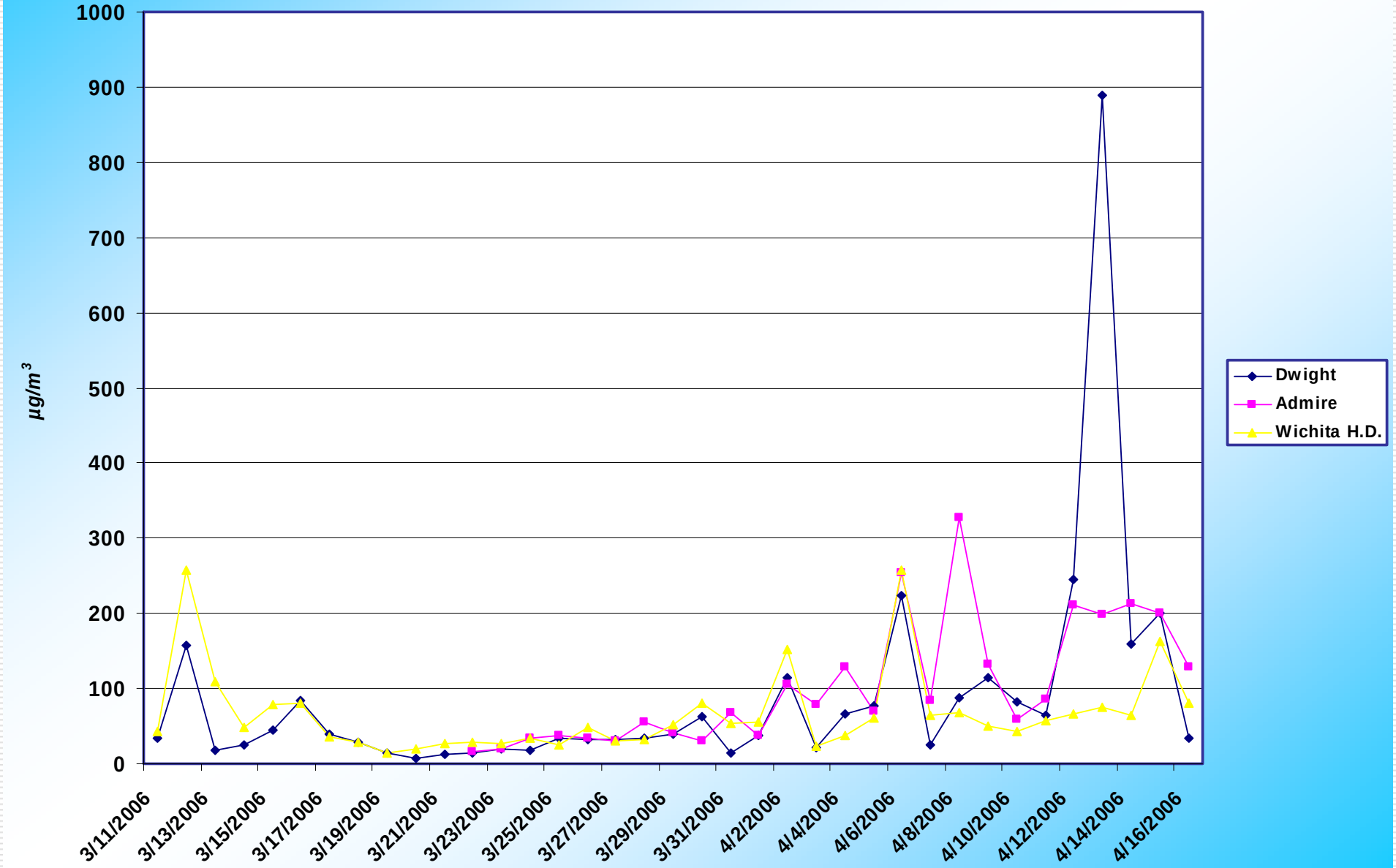



Kansas City Area Ozone
2002-2005 4th High 8-Hour Average
PPM
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
2002
2003
2004
2005
JFK
Lawrence Airport
Heritage Park
Leavenworth

Flint Hills Monitoring Study

- Monitoring project
  - Continuous PM10 monitors at Dwight and Admire
  - Speciation for carbon forms at Dwight
- Possible health effects study
- Blue Sky Rains model piloted this Spring
  - Predicts smoke impacts from fires

24-Hour Average PM10
Flint Hills Special Monitoring Project



Maximum 1-Hour Average PM_{10}
Flint Hills Special Monitoring Project