

AIR QUALITY UPDATE
Presentation to
Transportation & Environmental Committee

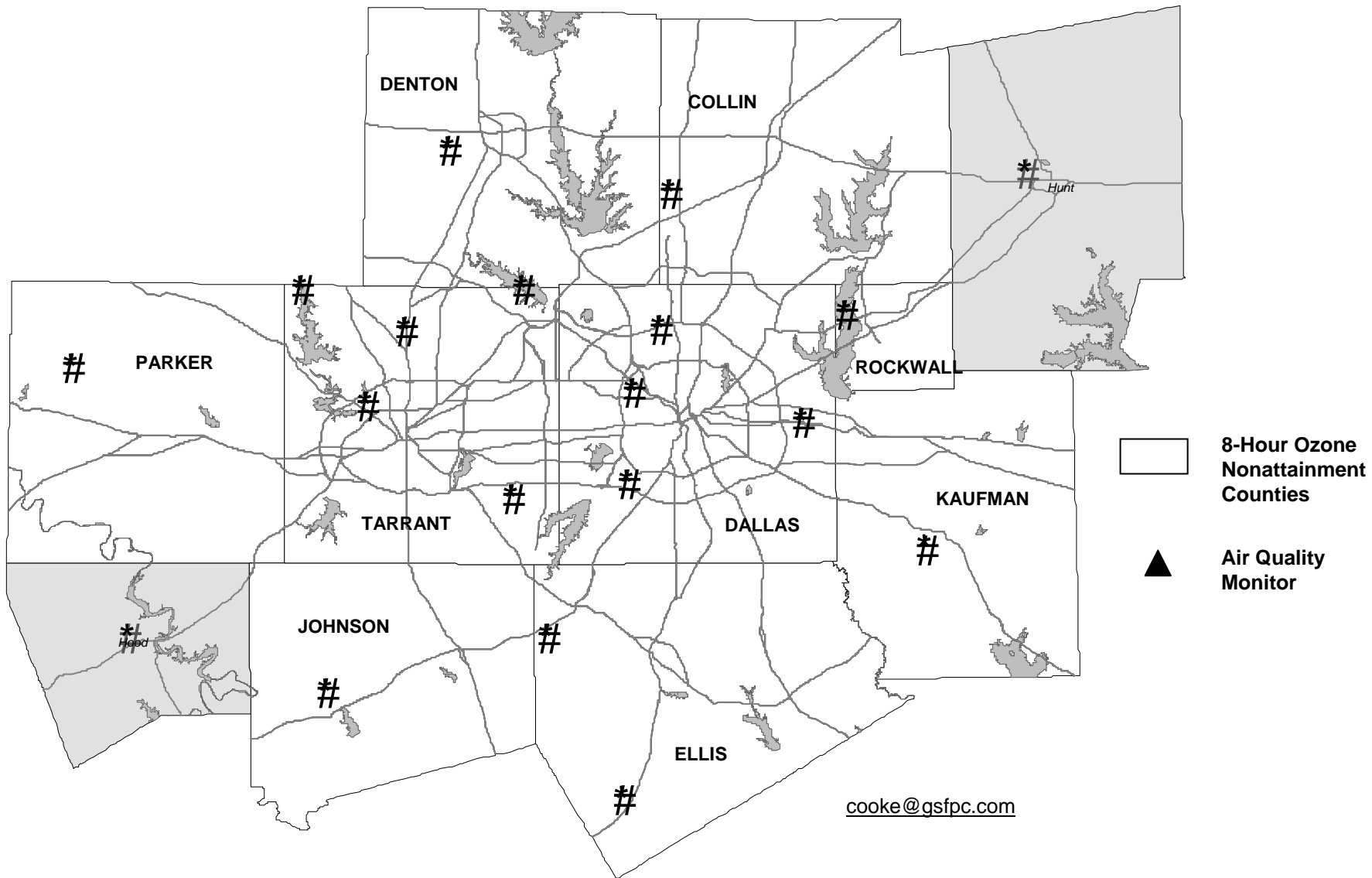
Advanced Environmental Dimensions
by Gregg Cooke

Guida, Slavich & Flores, P.C.

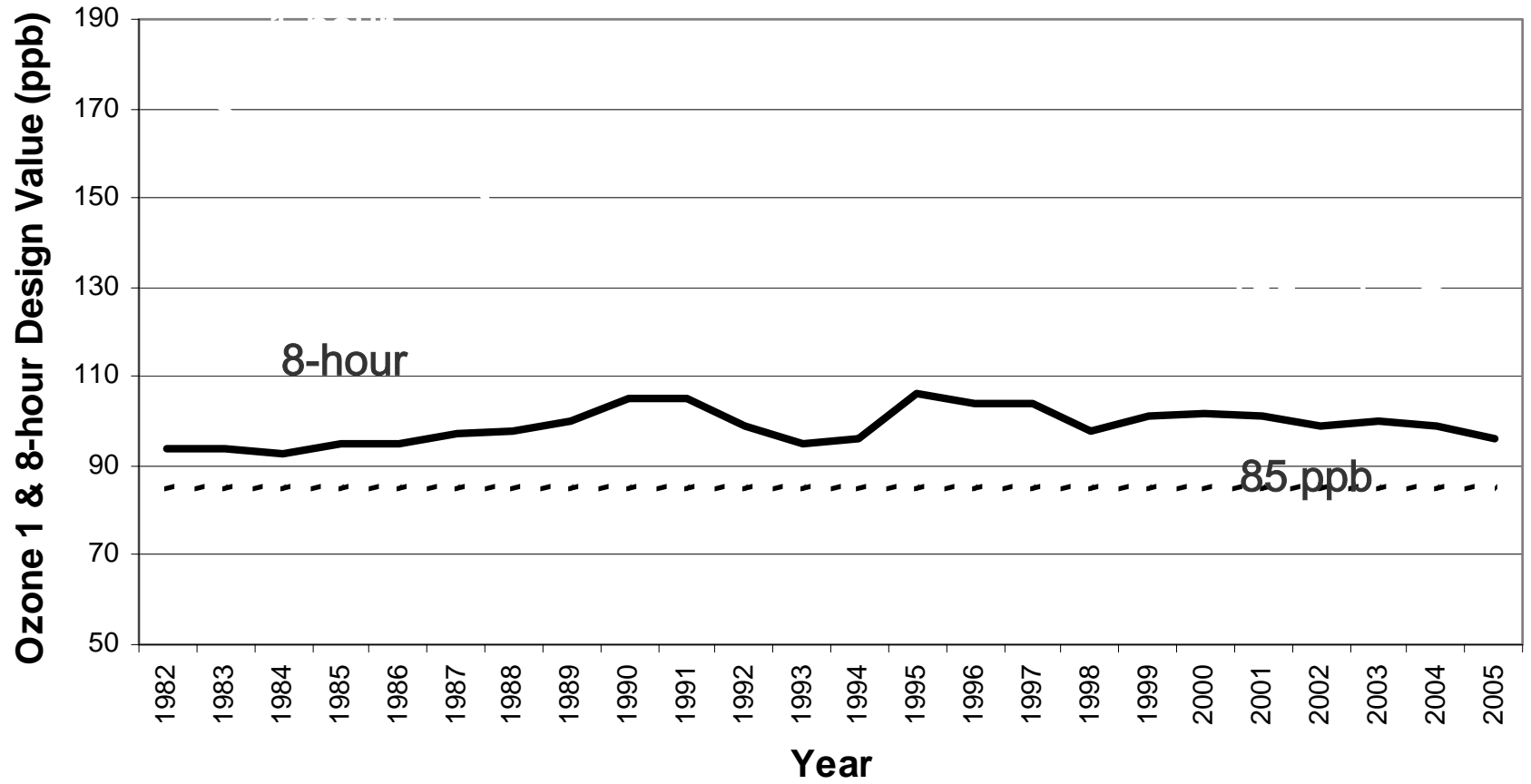
March 27, 2006

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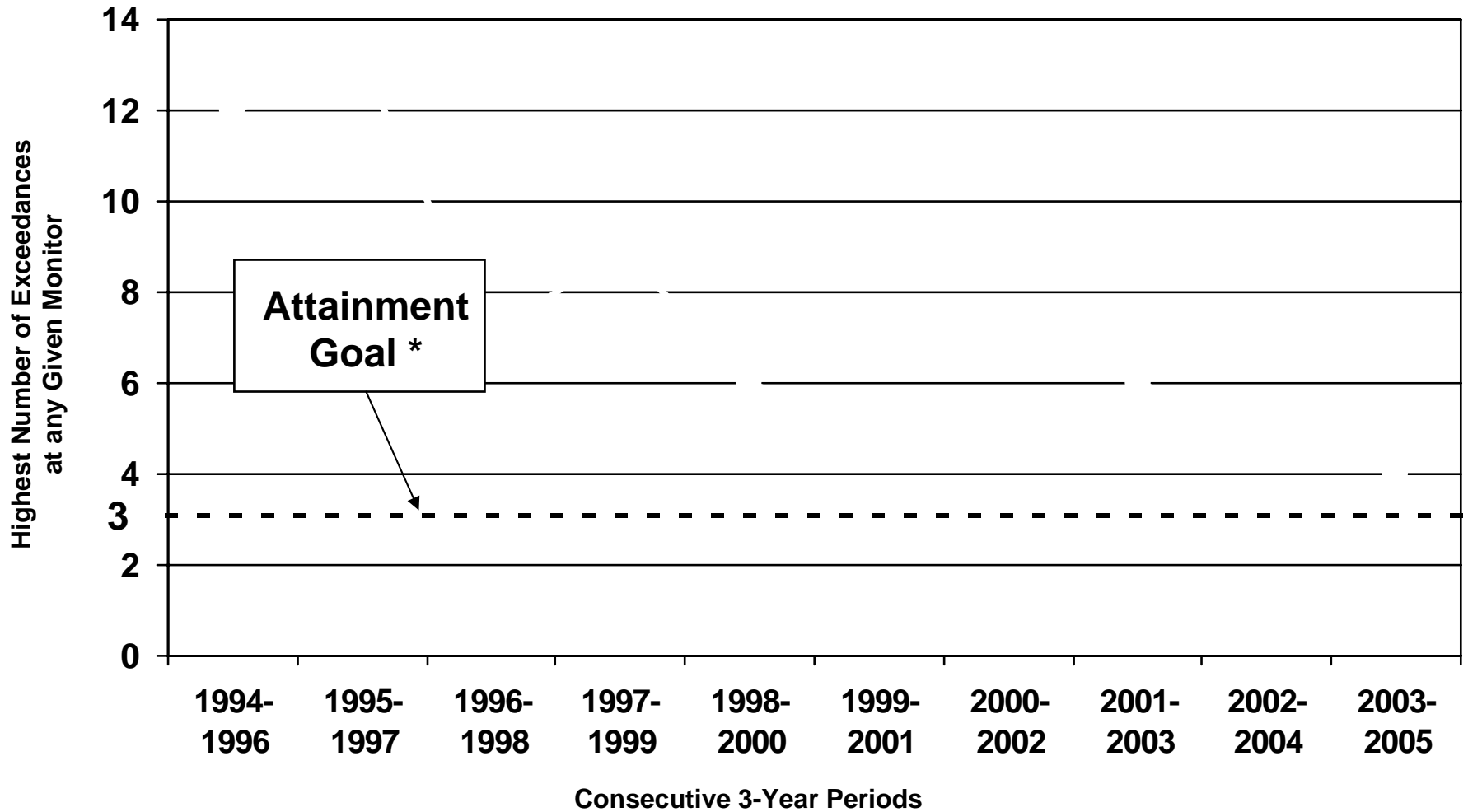


Source: NCTCOG Transportation Dept – October 2005



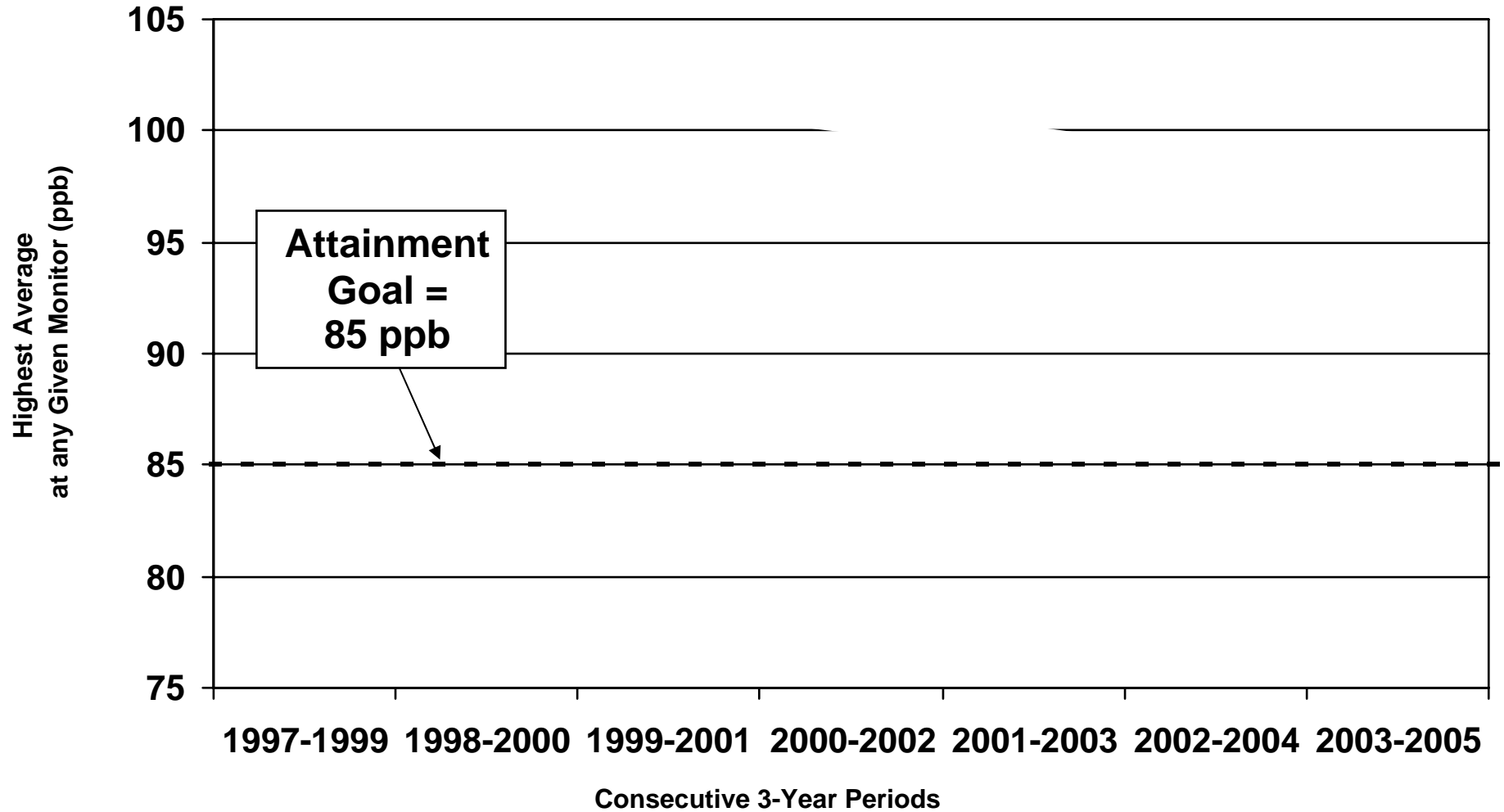
NOTE: 2005 ozone season has not yet concluded.

HISTORICAL TRENDS FOR 1-HOUR OZONE EXCEEDANCES

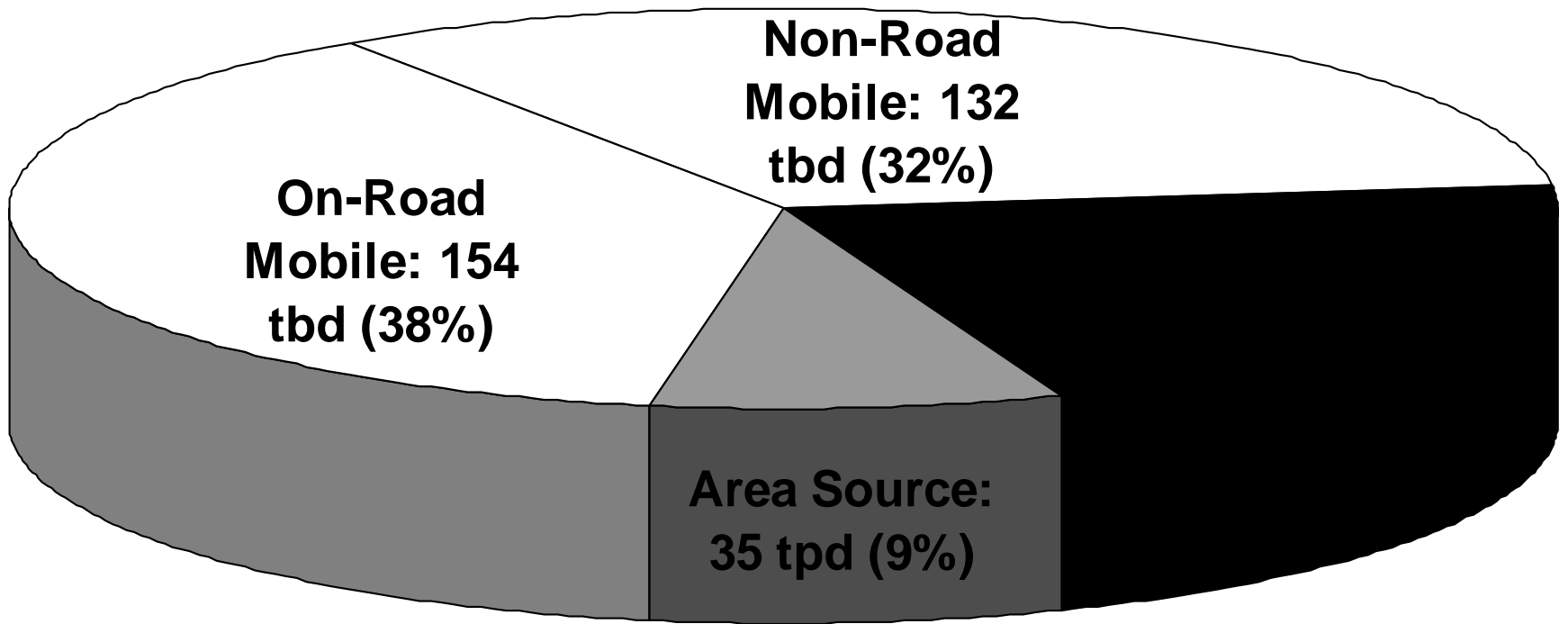


*Attainment Goal - According to the US EPA National Ambient Air Quality Standards, attainment is reached when there are no more than 3 exceedances per monitor within a consecutive 3-year period.

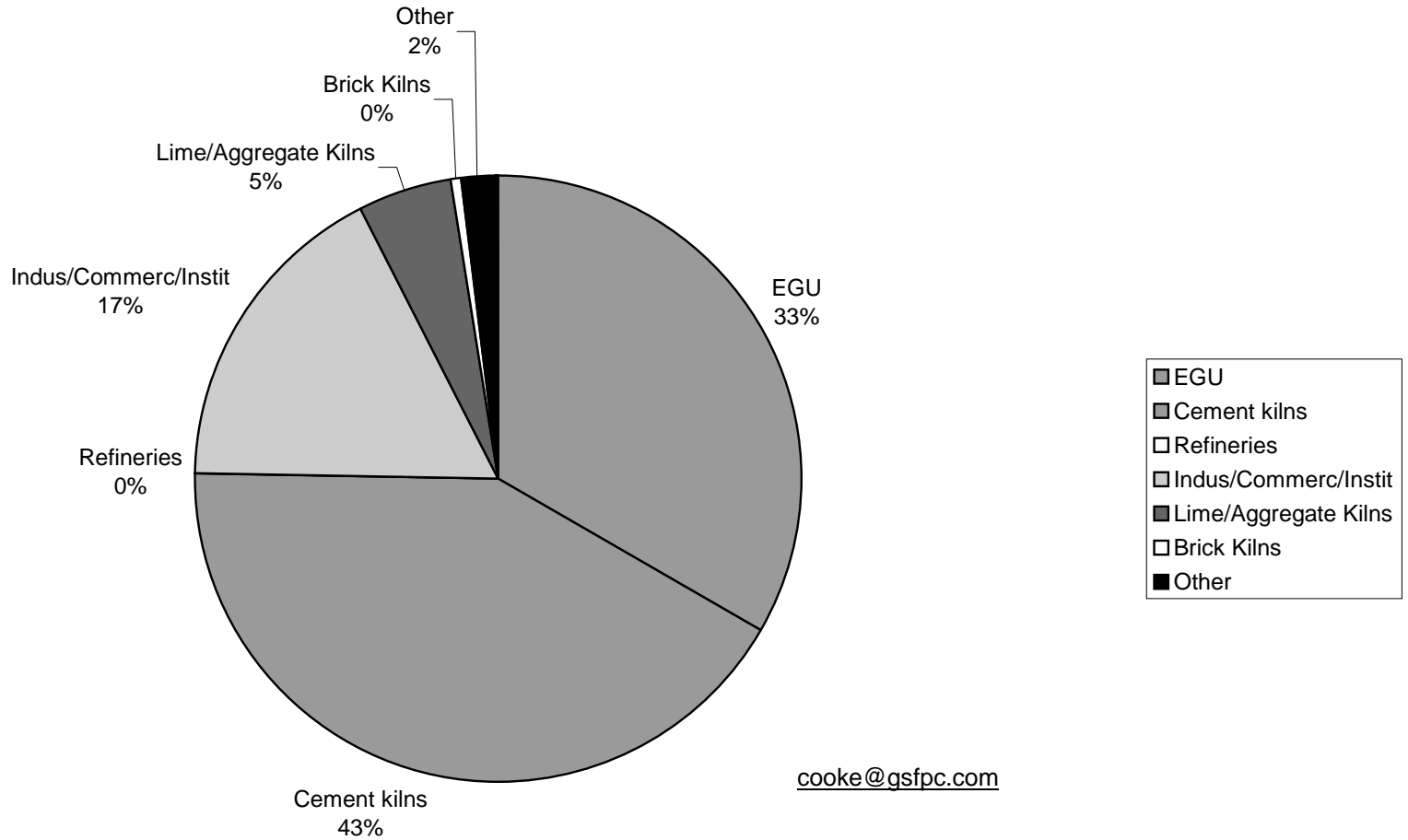
HISTORICAL TRENDS FOR 8-HOUR OZONE STANDARD

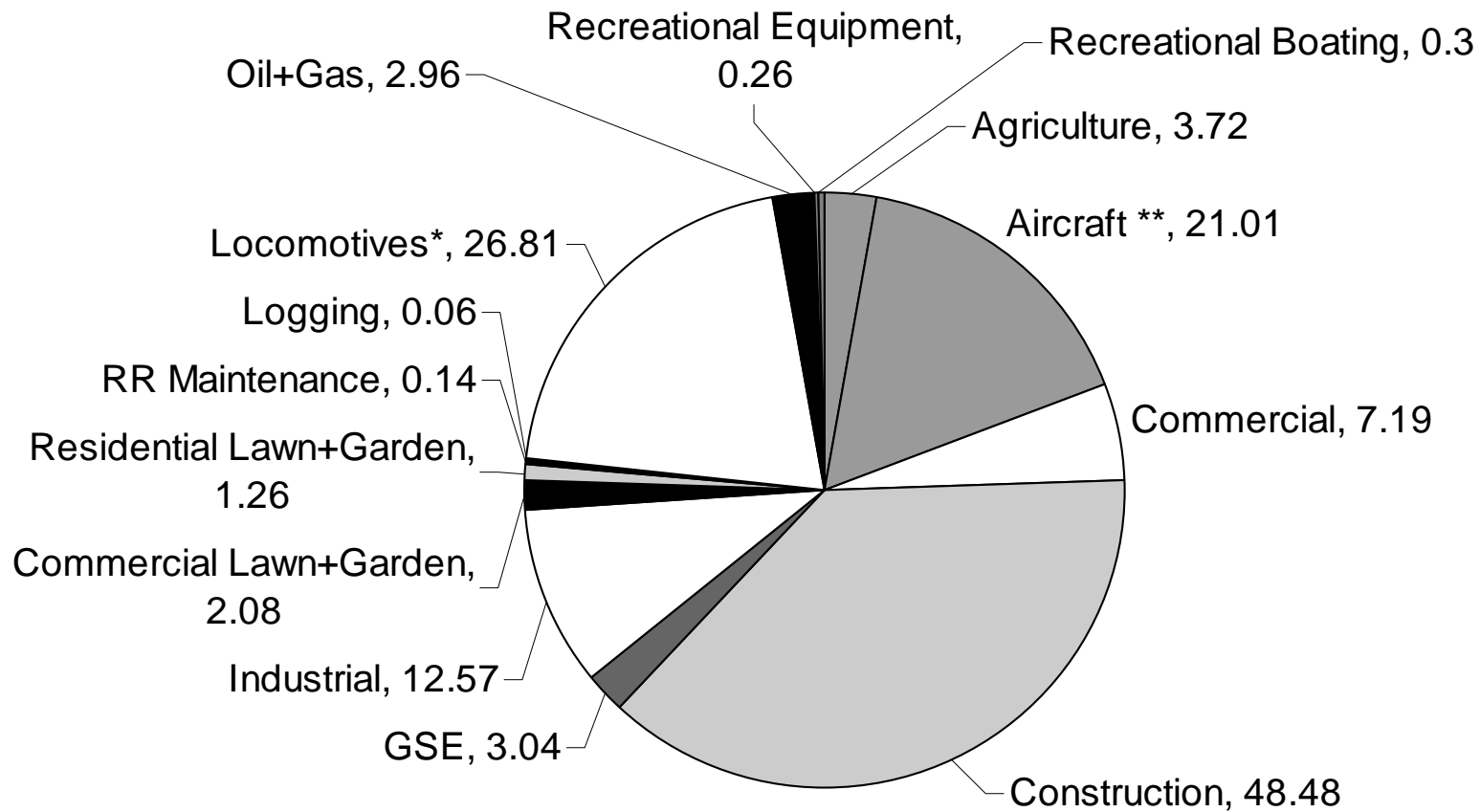


*Attainment Goal - According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the three-year average of the annual fourth-highest daily maximum 8-hour average ozone concentration is less than 85 ppb.



2003 Point Source NOx by Source Type



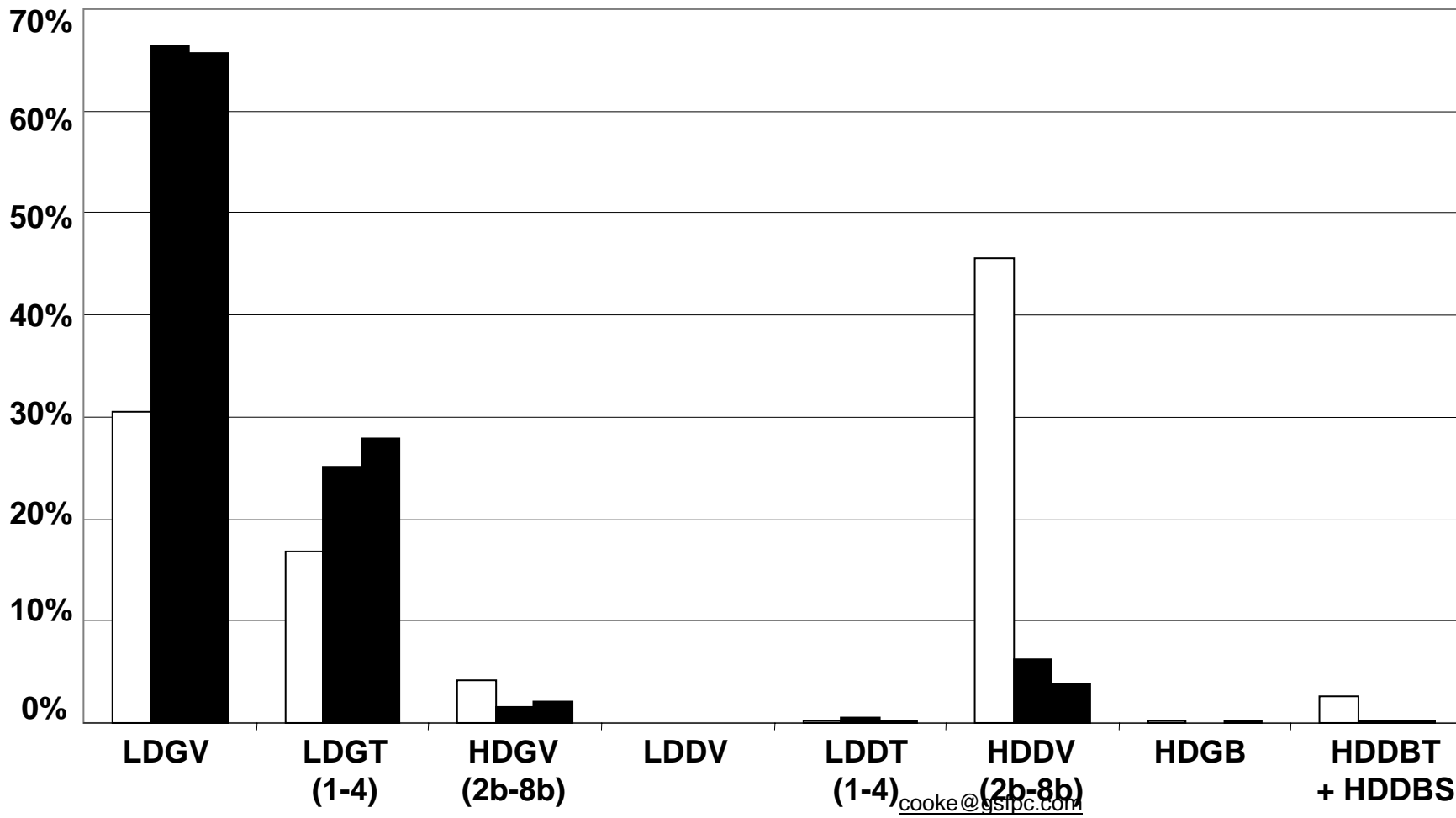


Total Non-Road NOx: 130 tpd

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*switchers represent approximately 55% of the NOx

**onroad vehicles represent 1% of the NOx



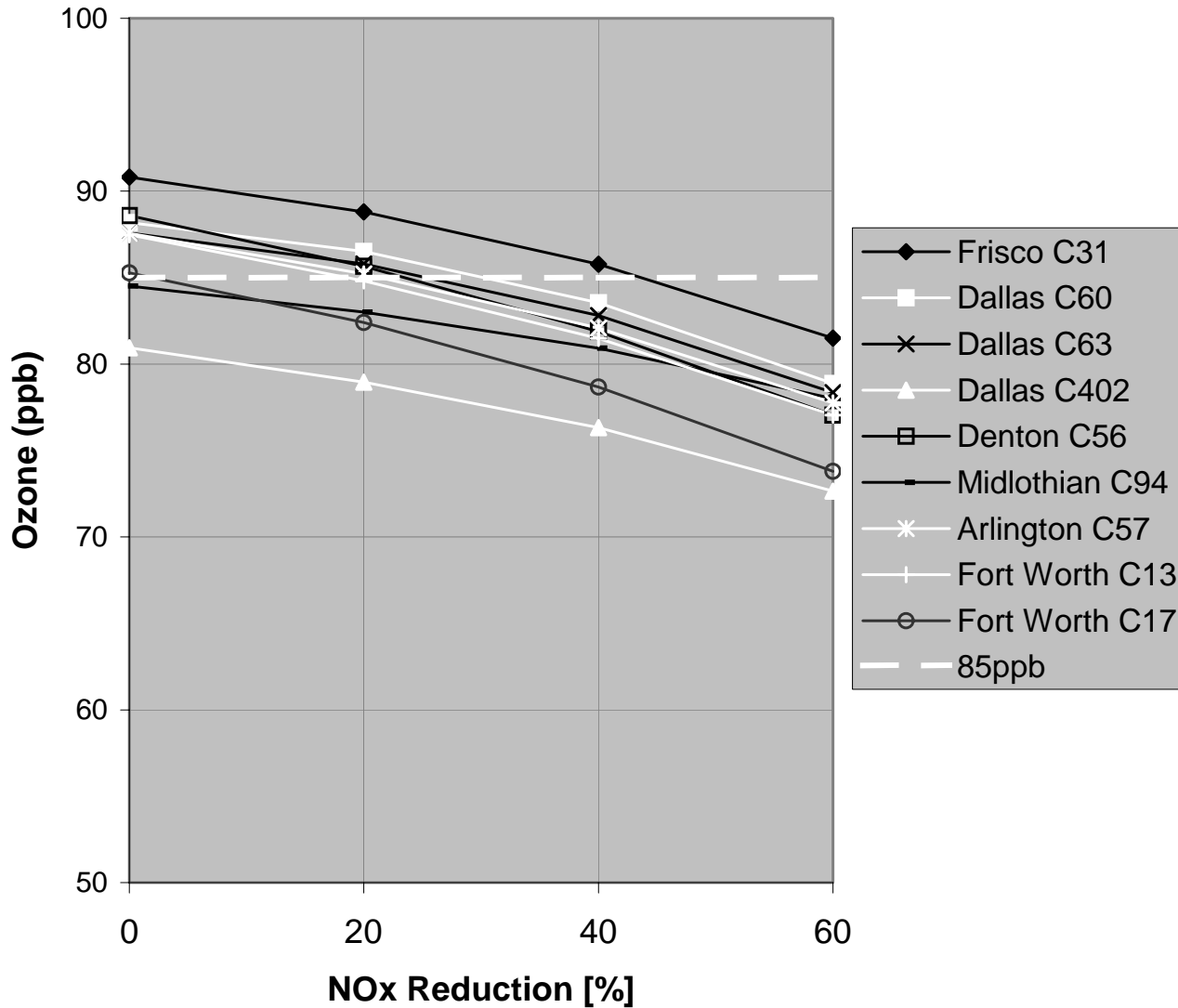
EPA's 28 TYPE VEHICLE CLASS AGGREGATED



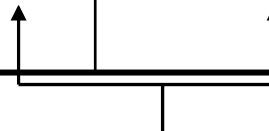
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Design Value Scaled 2010 DFW 8-Hour Ozone NOx Reductions. Aug 13-22, 1999 Core Period.



	Area & Point (tpd)	Nonroad (tpd)	Onroad (tpd)	Total (tpd)	Amount Needed? (tpd)
Nitrogen Oxides	11	30	22	63	196



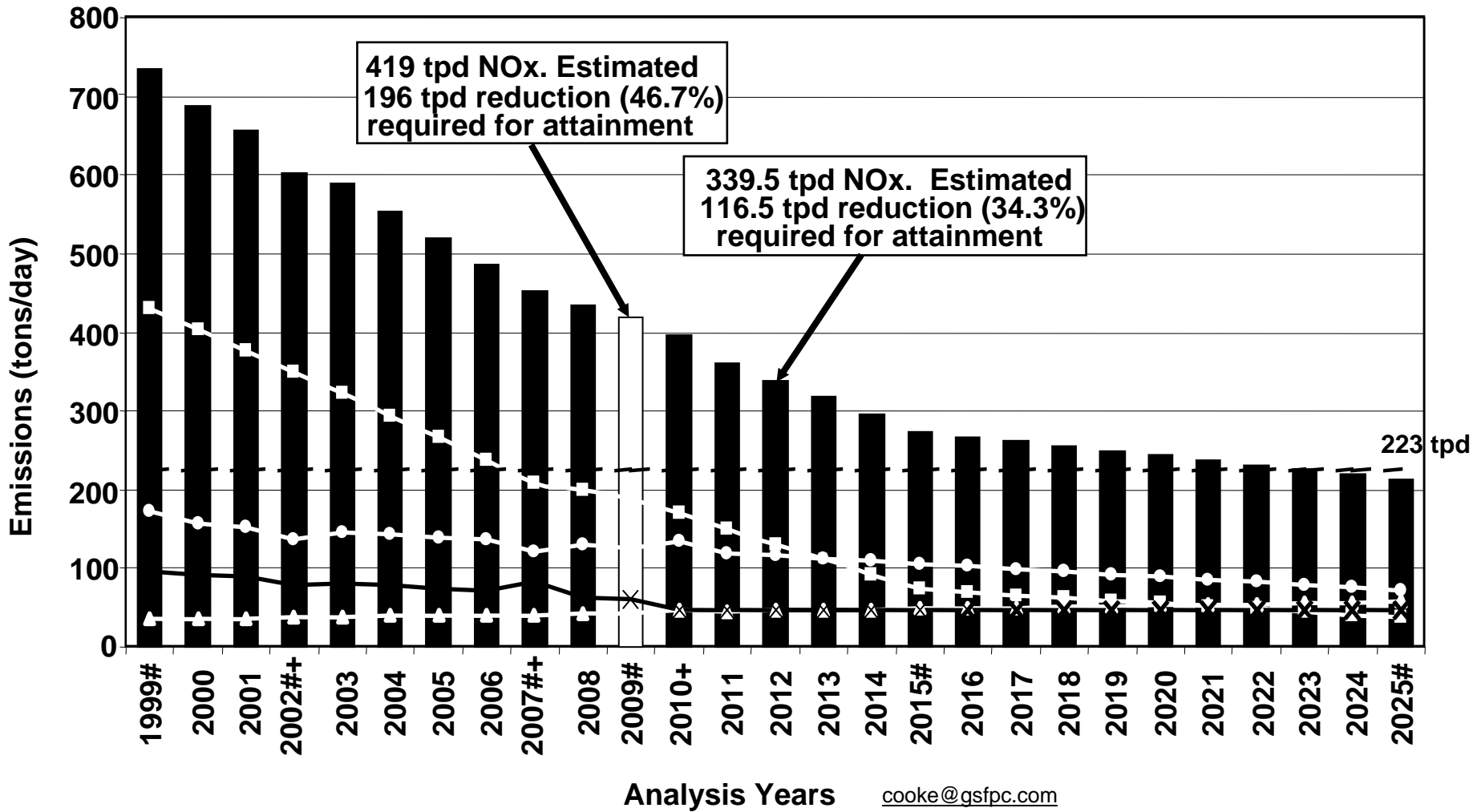
Most Optimistic Possible Reductions

Assumes Zero Overlap Between Source Categories

**State Evaluating Electric Generating Utilities, Cement Kilns,
Small Boilers & Heaters**

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Task	Start Date	End Date
Base Case Modeling	Fri 03/04/05	Fri 05/06/05
2009 Future Case Emissions Inventory Development, Including Mobile Source Emissions	Mon 03/14/05	Fri 09/30/05
2009 Future Base Case Modeling	Mon 10/03/05	Fri 10/07/05
Control Strategy Development	Mon 03/14/05	Fri 02/03/06
Rule Development	Mon 06/06/05	Fri 02/17/06
Commissioner Backup Materials, Including Publishing on Agency Website		Fri 04/28/06
SIP Proposal	cooke@gsfpc.com	Wed 05/17/06
SIP Adoption		Wed 11/15/06
Submit SIP to EPA		Fri 12/15/06



Total
 Onroad Mobile
 Area
 Nonroad Mobile
 Point

- Modeled Onroad Mobile Source Data provided by NCTCOG
 + - Modeled Area, Nonroad Mobile and Point Sources Data provided by TCEQ

Area	No. of Projects	Grant Amount
Total	679	\$315,578,135

- Continue and expand involvement in SIP process
- Support legislative actions for full funding of TERP and LIRAP
- **Crucial current issues:**
 - New schedule for 8-hour SIP
 - Propose new attainment date for SIP
 - Includes potential support for Governor’s letter for voluntary “bump-up”
 - Support for implementation of all feasible control measures by 2009 – no “backsliding”

- Improve Emissions inventory
 - Airport emissions need updating
- Comprehensive catalog of NOx sources within City with overall reduction targets
 - Energy efficiency
 - Vehicle procurement code
 - Utilize “green” language in City construction contracts
- Beware of “Conformity” issues in planning major projects such as **airport**