

Additional Monitoring for Victoria 2011

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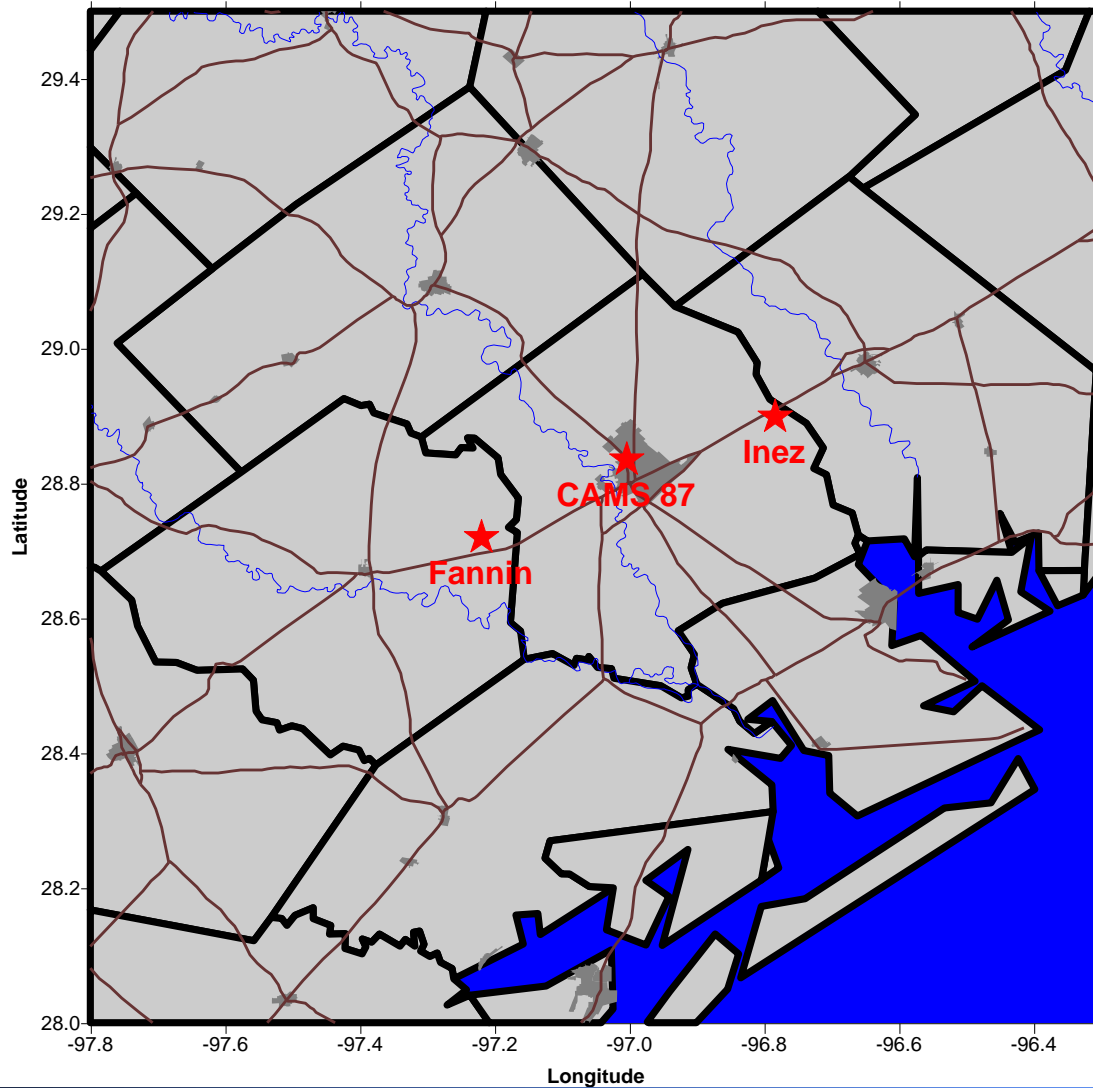
The University of Texas at Austin

Phase I Task 2 Ambient Monitoring

Two new sites

- **Site locations based on results from conceptual description, photochemical modeling and surface mobile sampling**
- **High ozone concentrations measured when the winds are from the east to east-northeast**
- **Upwind site at Inez**
 - **West Industrial Independent School District Elementary School**
- **Downwind site at Fannin**
 - **Coletto Creek Power Plant**
 - **Near railroad maintenance facility**

Monitoring Locations



Phase I Task 2 Ambient Monitoring (continued)

Routine, seasonal, hourly ambient monitoring data

Year 2010

- Coletto Creek installed June 23, 2010
- Inez installed June 24, 2010
- Both sites were deactivated on Nov 15, 2010

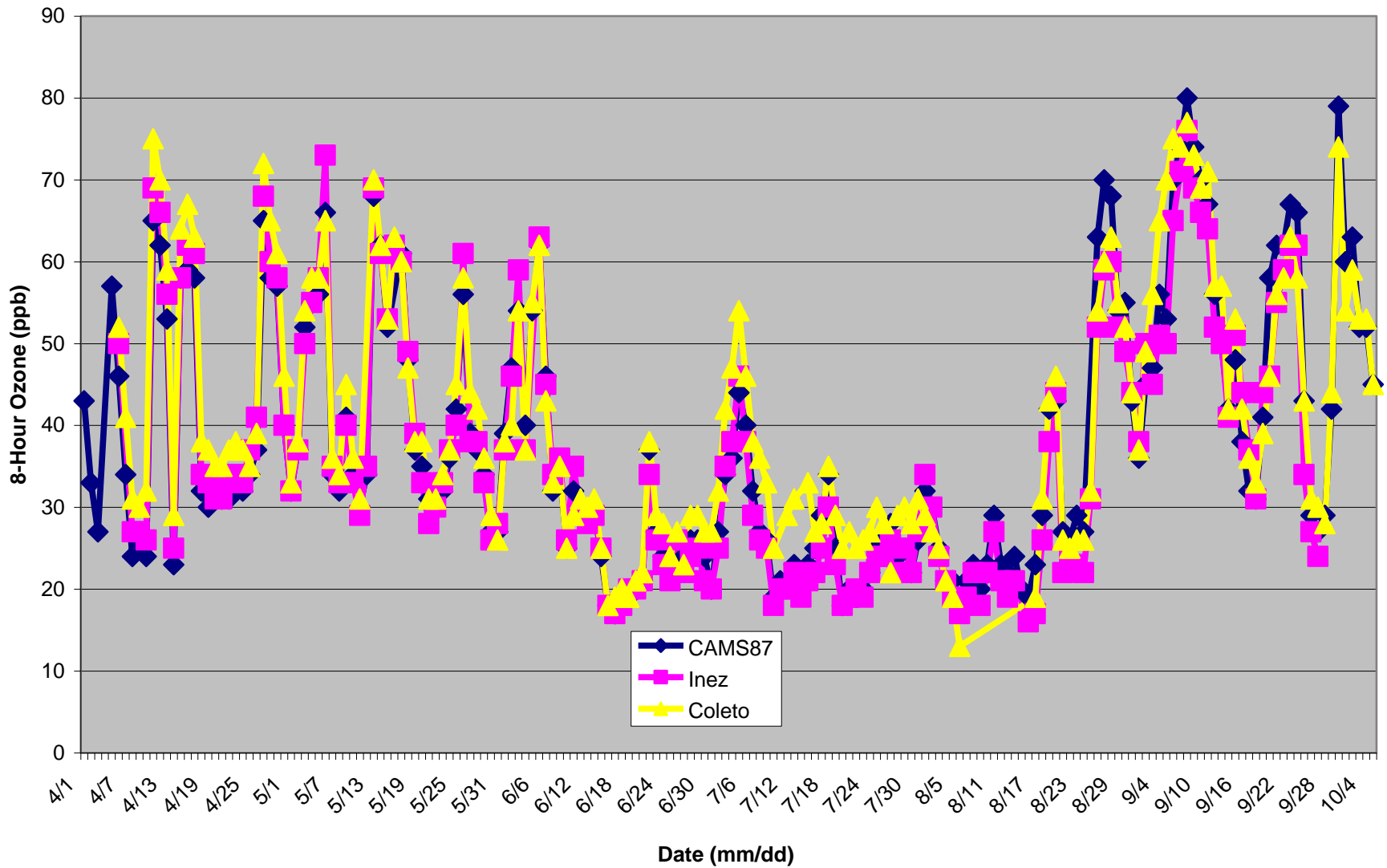
Year 2011

- Coletto Creek and Inez activated on April 5, 2011
- Both monitors will be deactivated on Nov 15, 2011

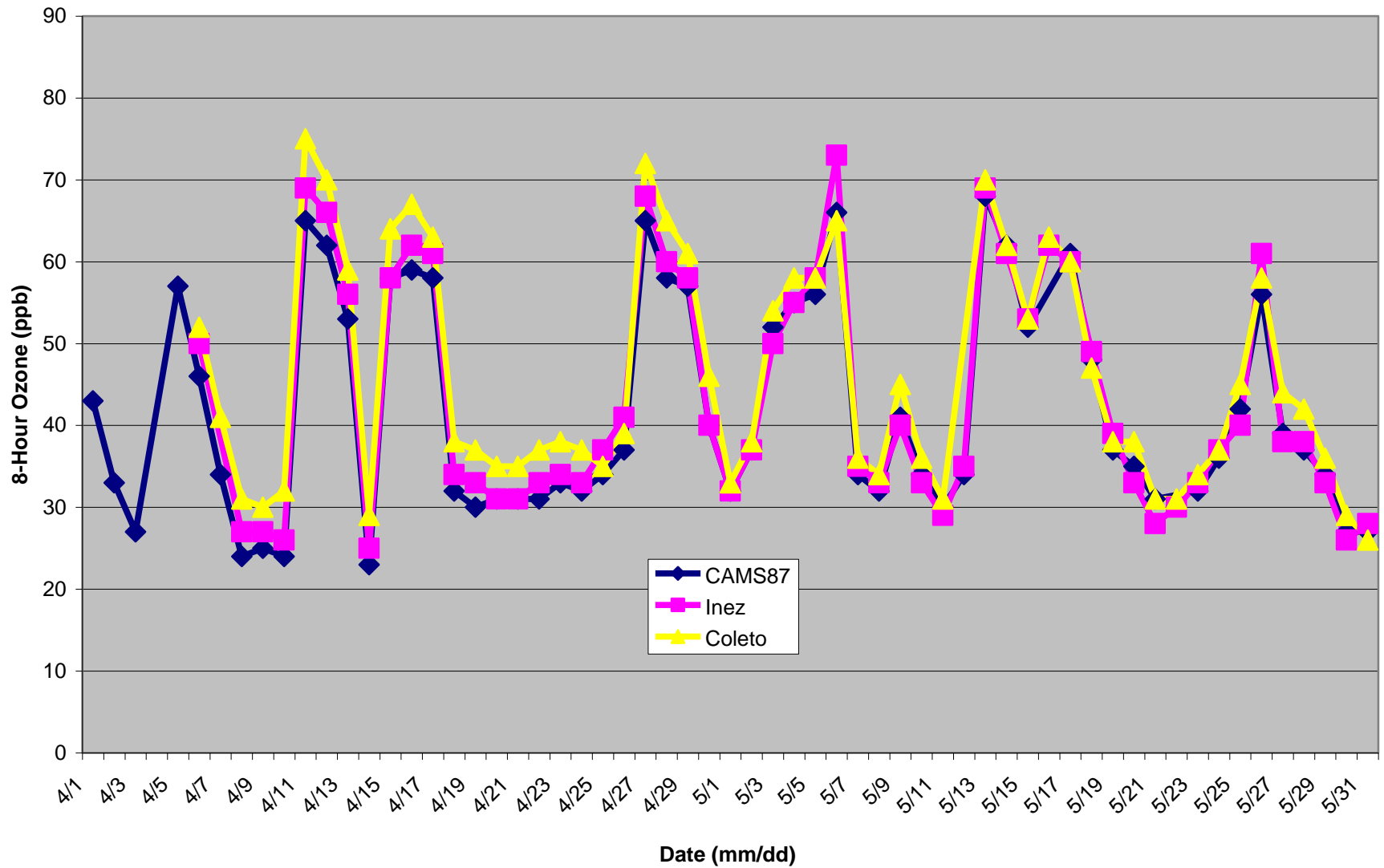
- Data in TCEQ LEADS since August 27, 2010

- Measurements
 - Ozone
 - NOx at Inez
 - Wind speed
 - Wind direction
 - Temperature

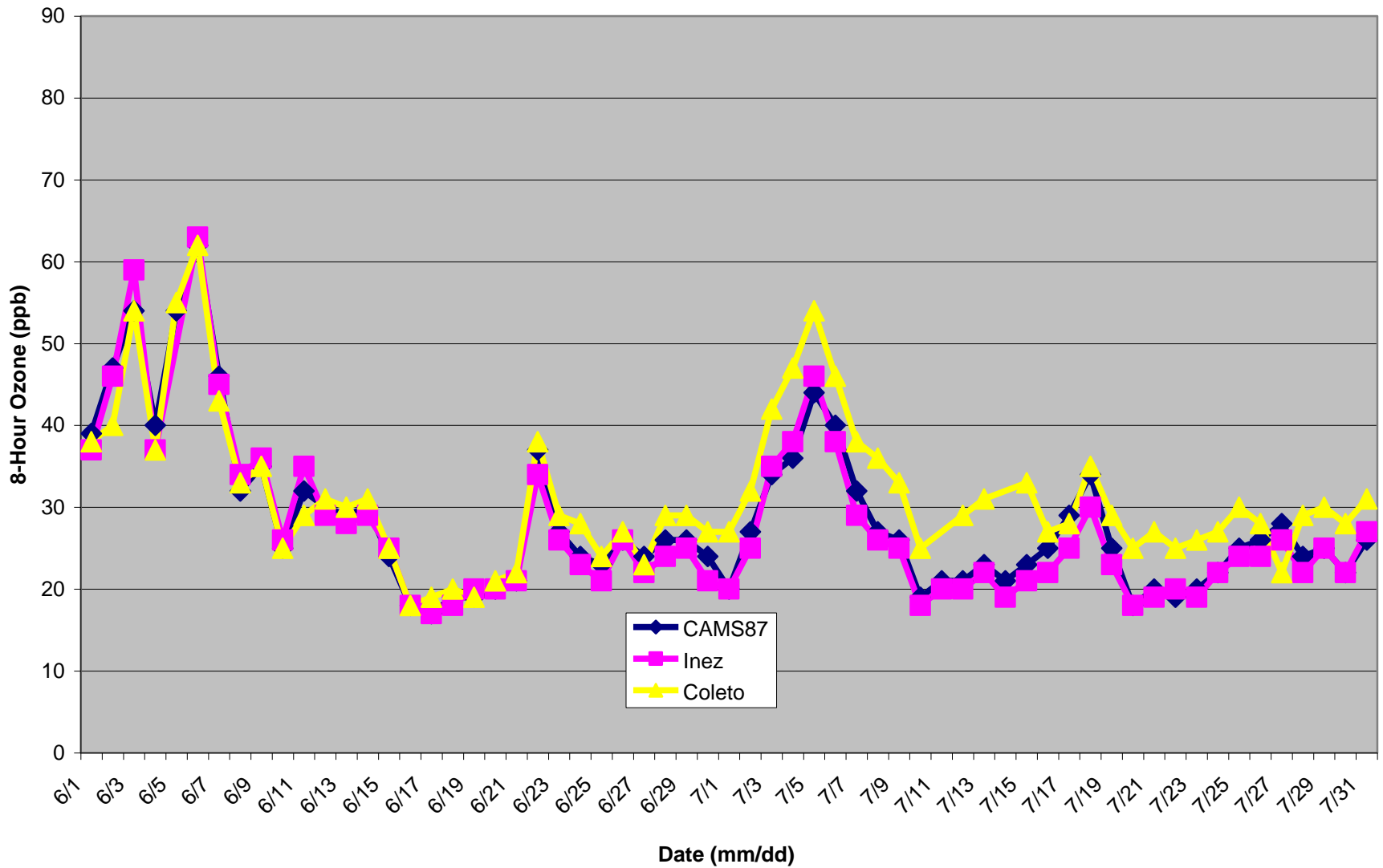
Daily Max 8-Hour Ozone: April - October 5th 2011



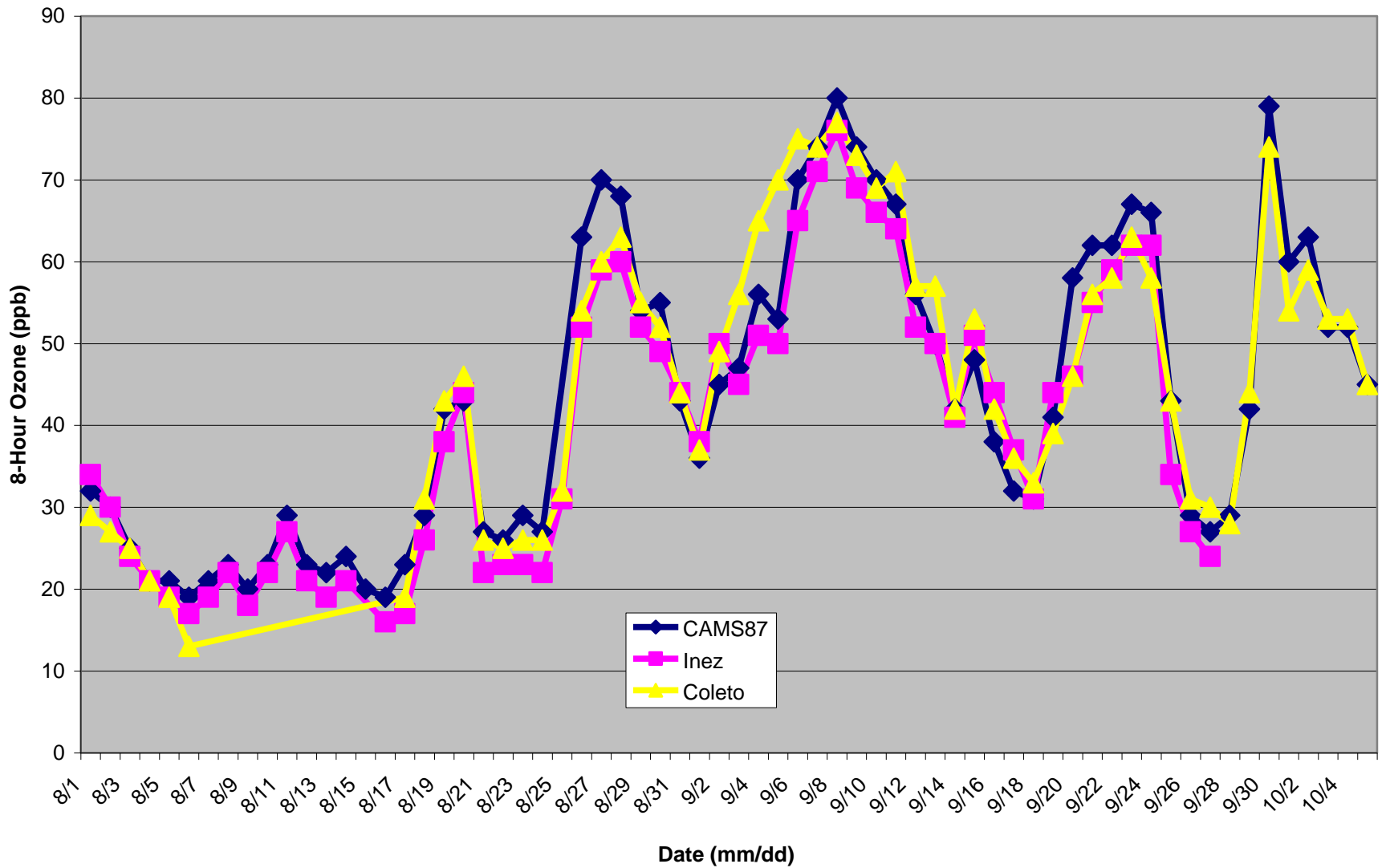
Daily Max 8-Hour Ozone: April - May 2011



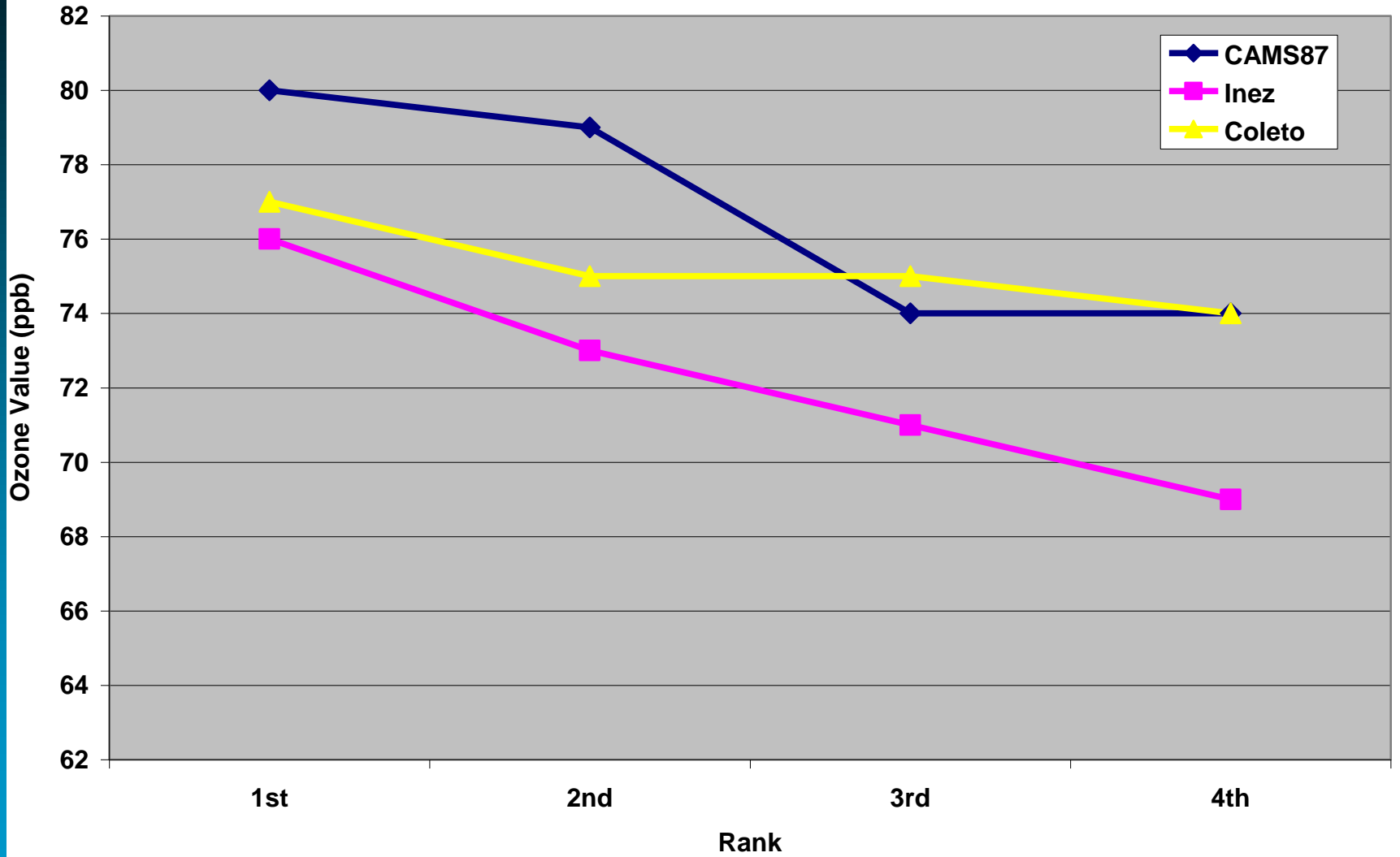
Daily Max 8-Hour Ozone: June - July 2011



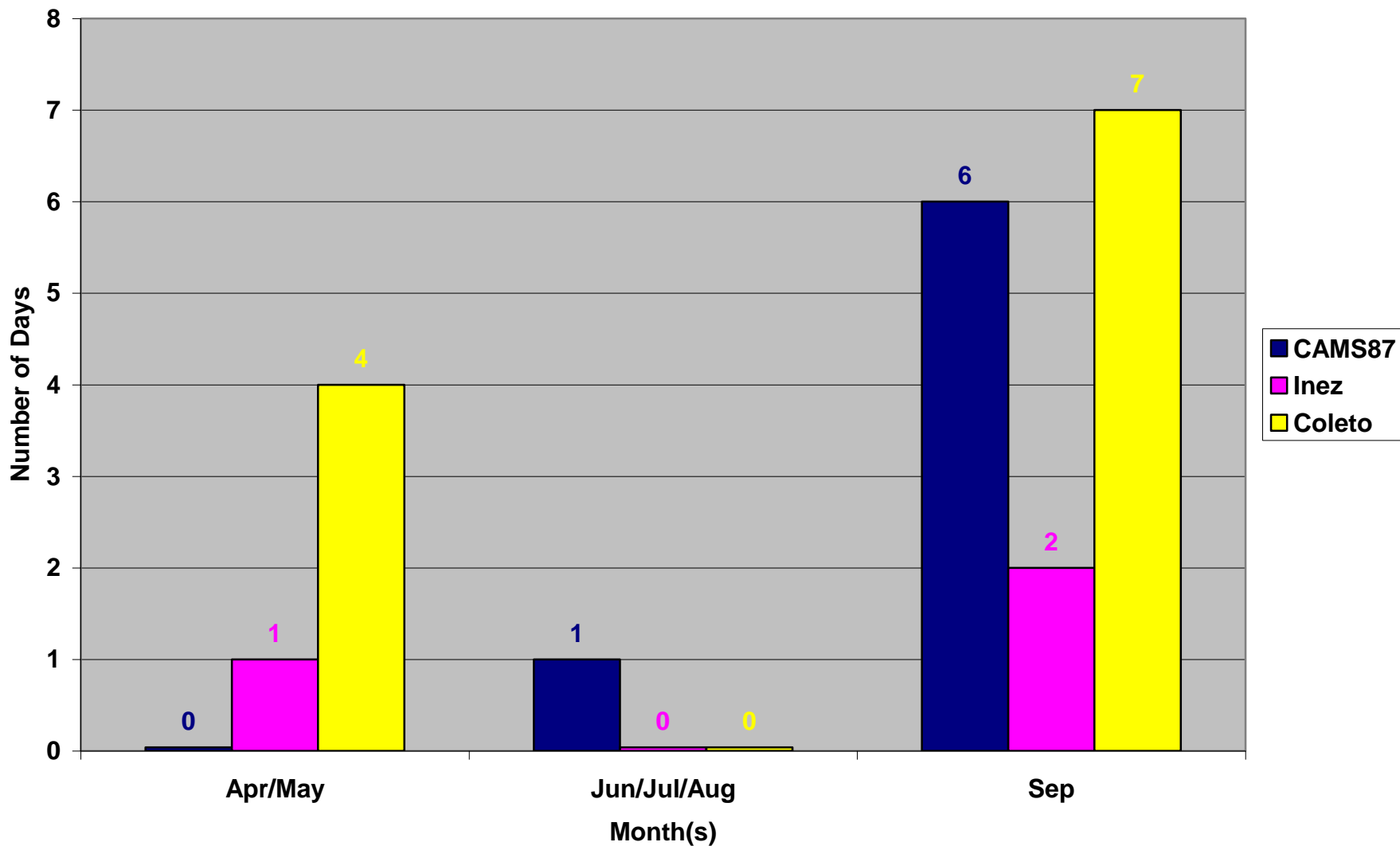
Daily Max 8-Hour Ozone: August - October 5th 2011



Four Highest Daily Max 8-Hour Concentrations during 2011



Number of High Ozone Days (≥ 70 ppb) by Month(s) during 2011



2011 Ozone Monitoring Summary

- Maximum Victoria 8-hour ozone concentration was 80 ppb at CAMS 87 on September 8th
- 4th highest daily max concentrations
 - 74 ppb on Sept 9th at CAMS 87
 - 74 ppb on Sept 30th at Coleto Creek
 - 69 ppb on Sept 9th at Inez
- Seasonal pattern of high ozone days characterized by April/May and September peaks
 - September had the largest number of 70 ppb ozone days at all monitoring locations.