

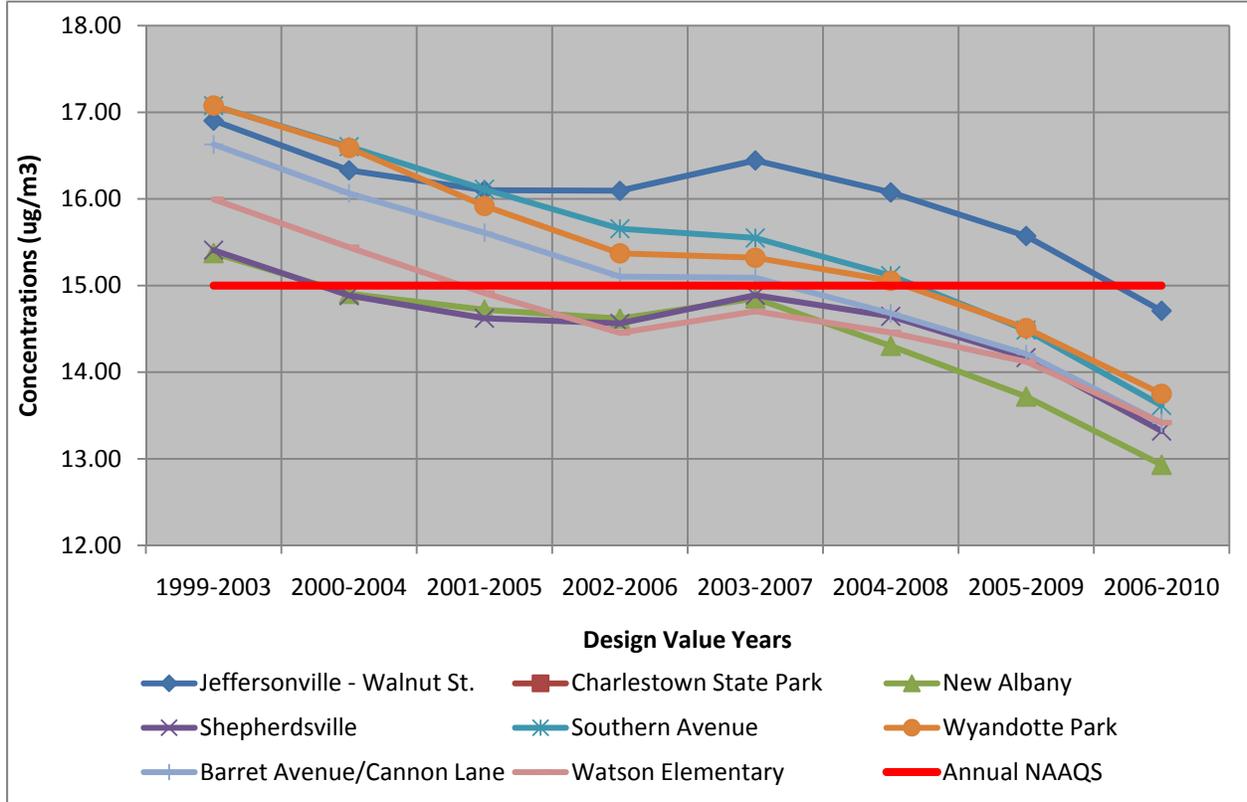
APPENDIX J

Modeling Summary

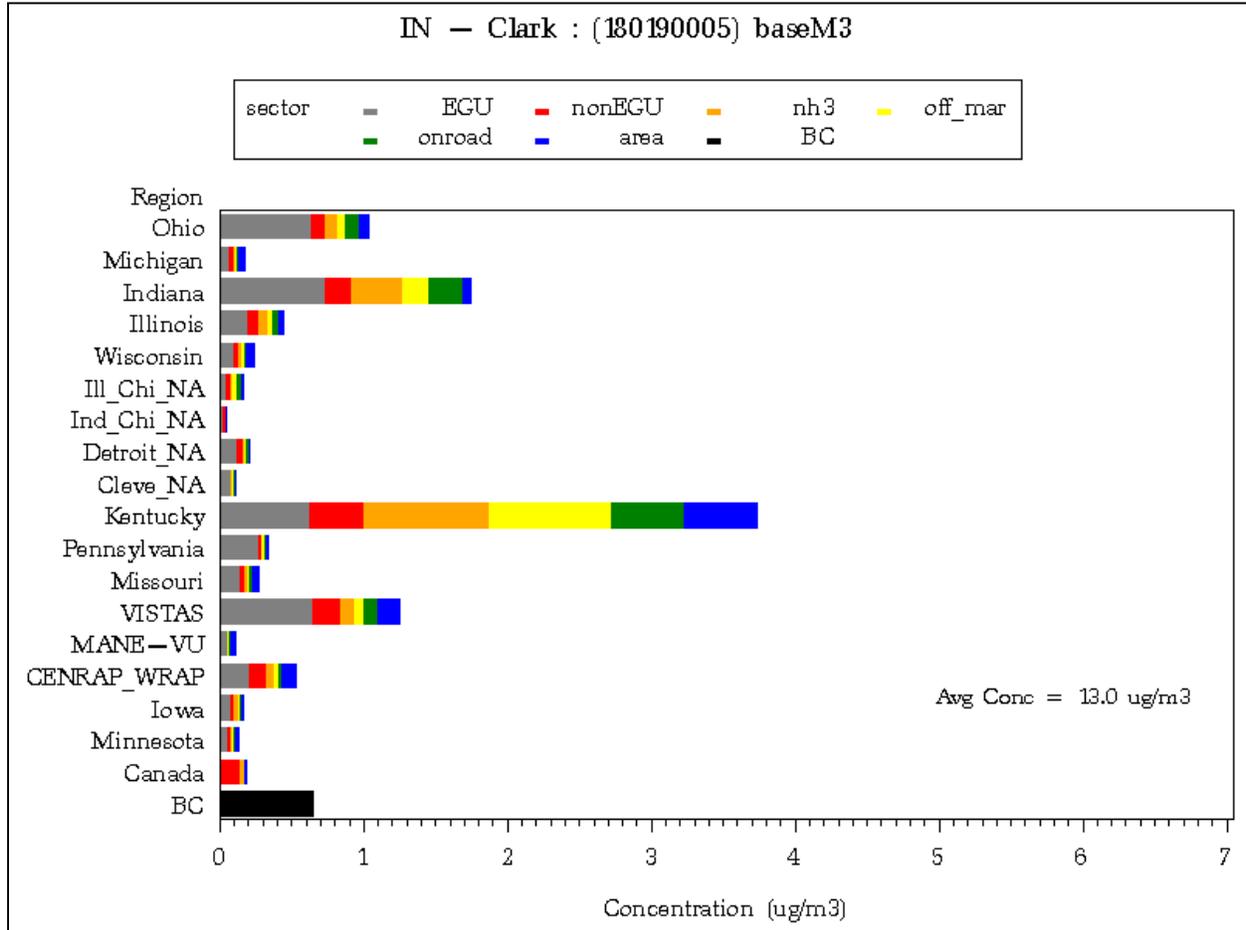
- **PM_{2.5} Design Value Trends**
- **Regional/Emission Sector Particulate Source Apportionment Technology (PSAT) Test Results, Jeffersonville, Indiana – Walnut Street PM_{2.5} Monitor**
- **Speciated Contributions to PM_{2.5} Concentrations, Louisville Area**
- **Distribution of PM_{2.5} Concentration Days using Air Quality Index (AQI) Levels**

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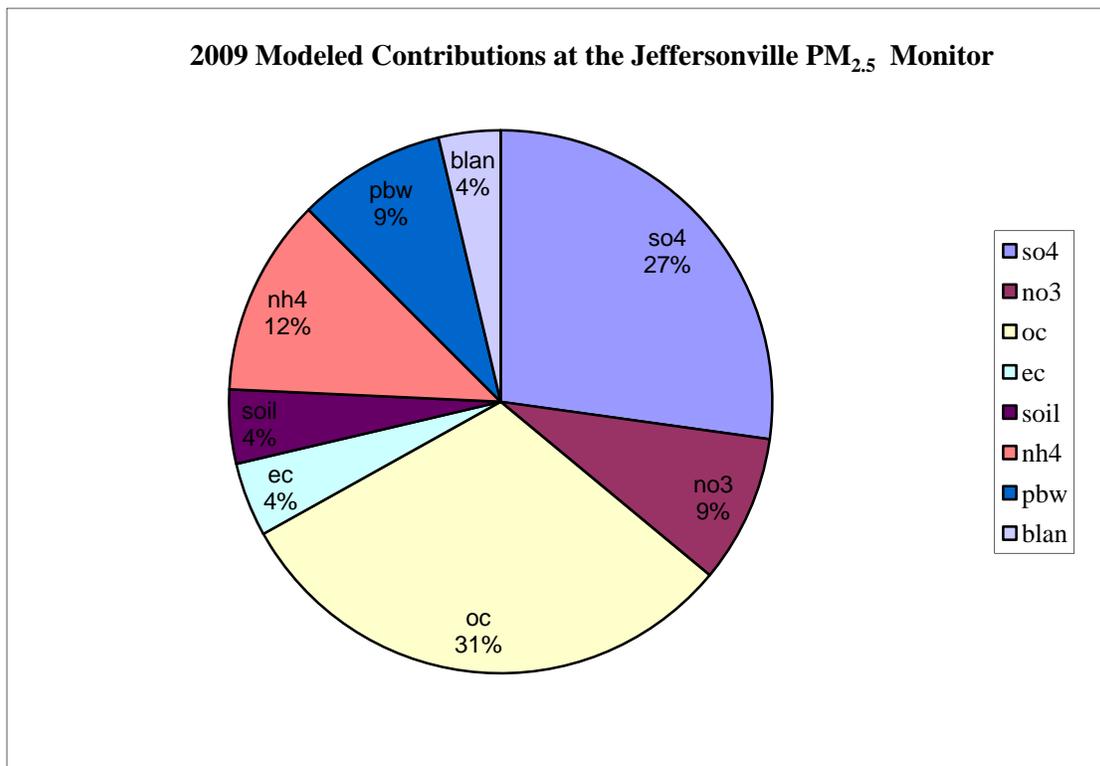
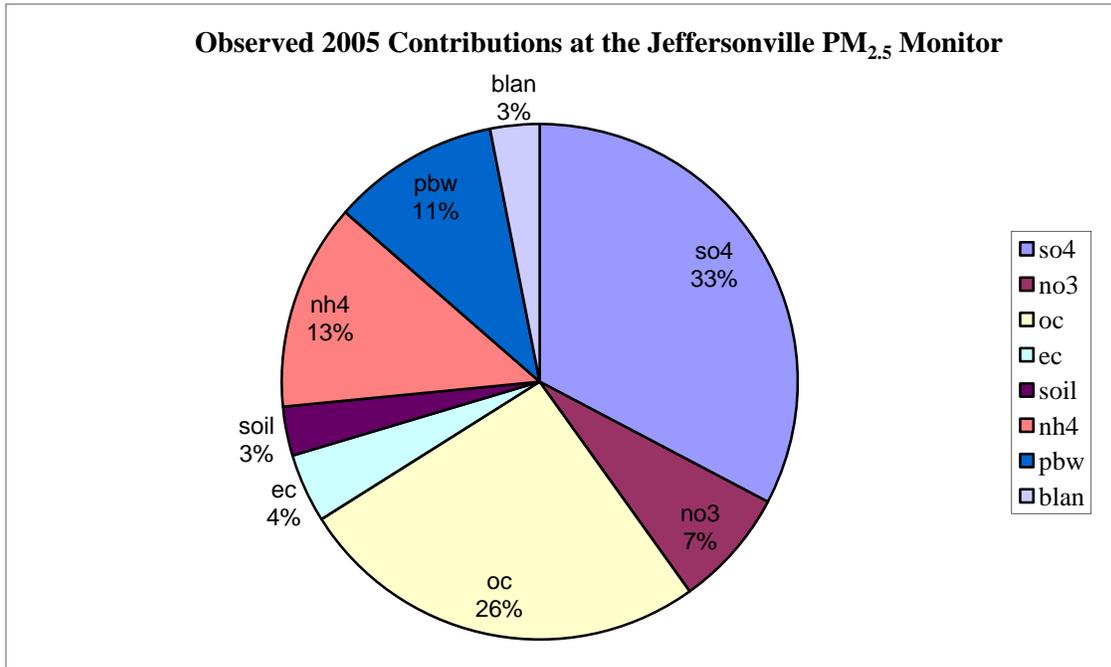
PM_{2.5} Design Value Trends for the Louisville Area, 1999 to 2010



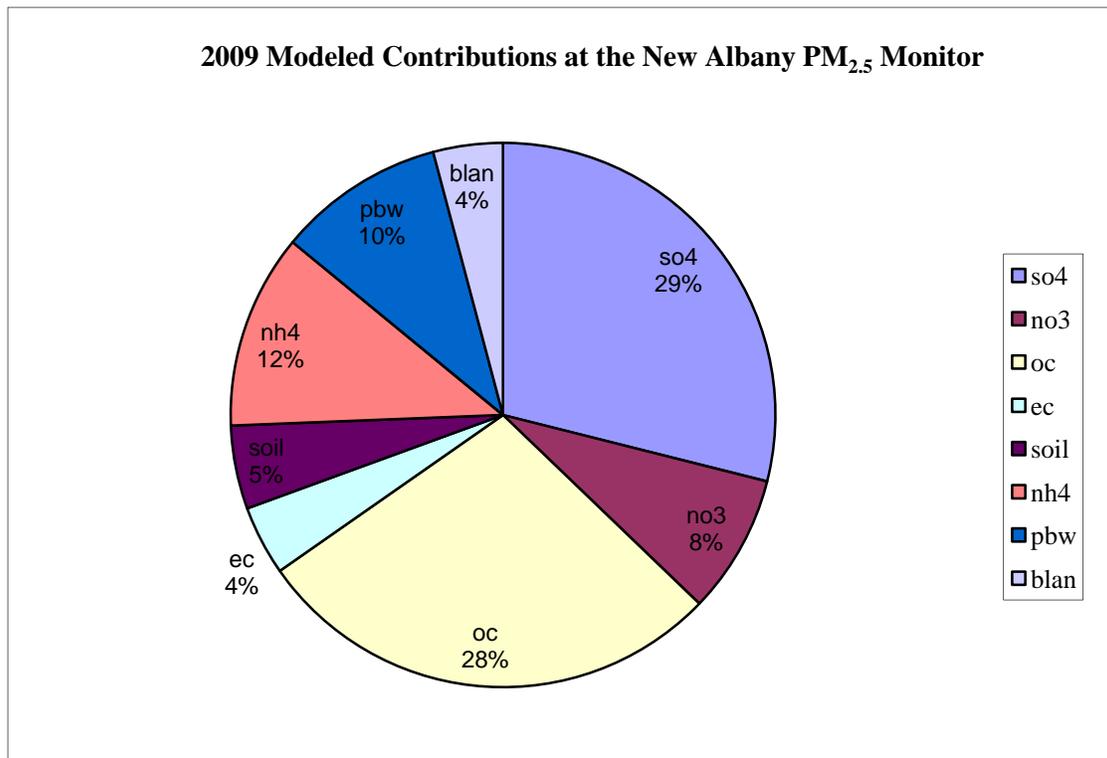
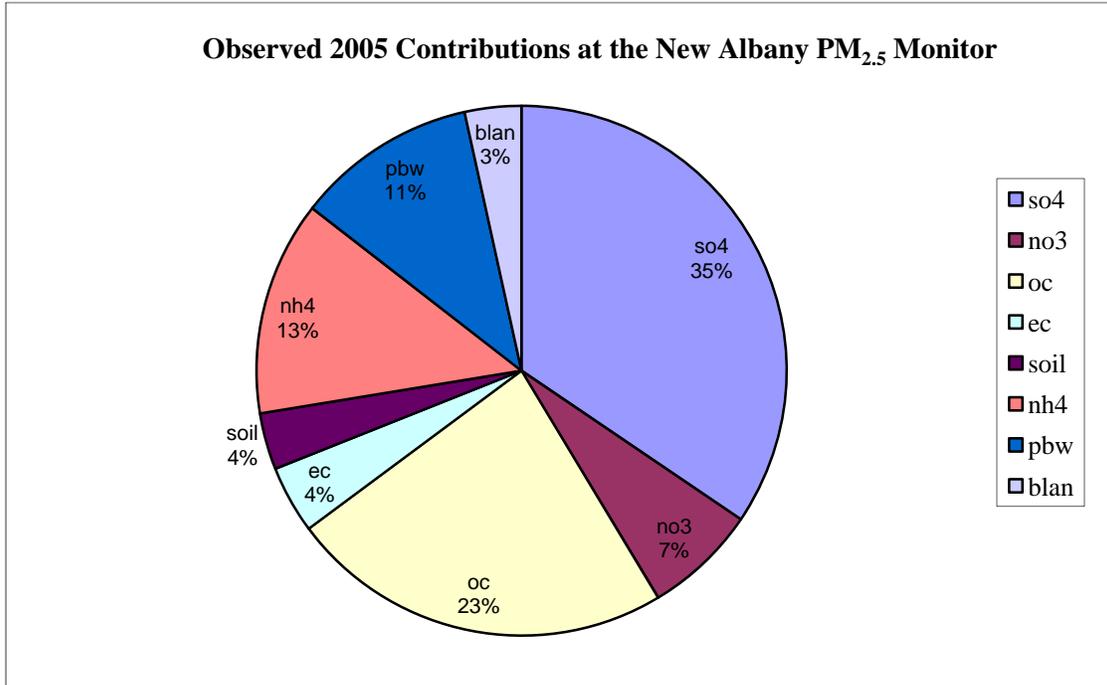
**Regional/Emission Sector Particulate Source Apportionment Technology (PSAT) Test
Results, Jeffersonville, Indiana – Walnut Street PM_{2.5} Monitor**



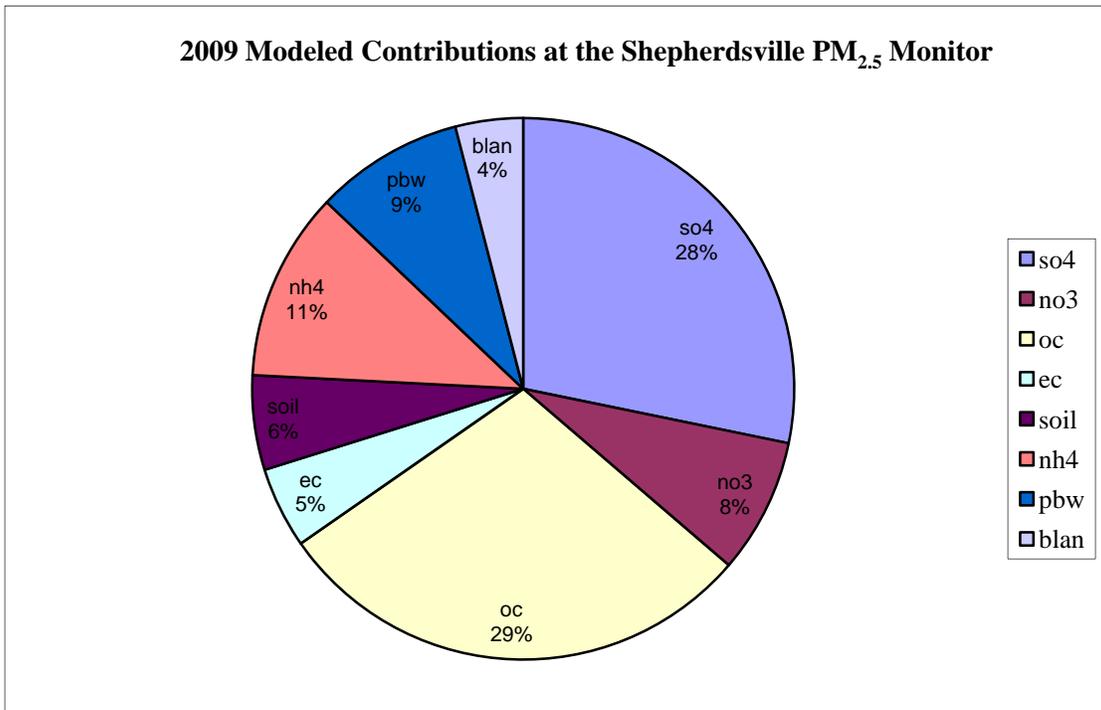
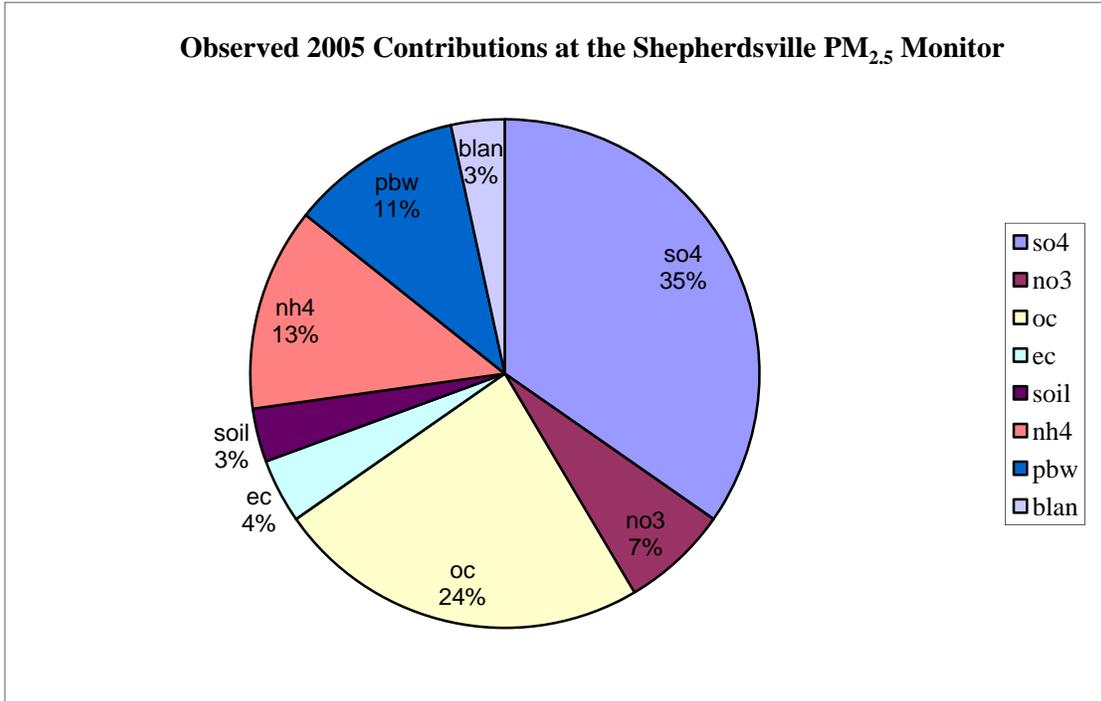
**Modeled Contribution by Species at the Jeffersonville, Indiana
Walnut Street PM_{2.5} Monitor**



Modeled Contribution by Species at the New Albany, Indiana PM_{2.5} Monitor

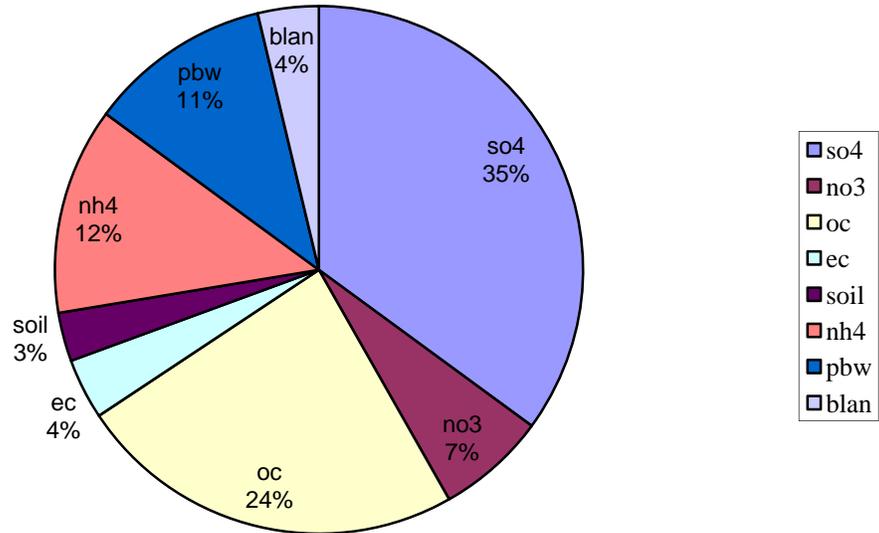


**Modeled Contribution by Species at the Carpenter Street – Shepherdsville, Kentucky
PM_{2.5} Monitor**

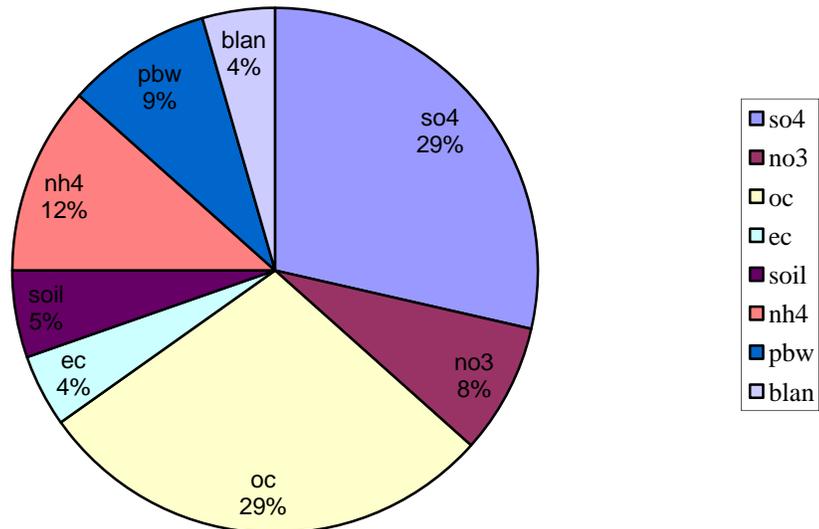


Modeled Contribution by Species at the Elizabethtown, Kentucky PM_{2.5} Monitor

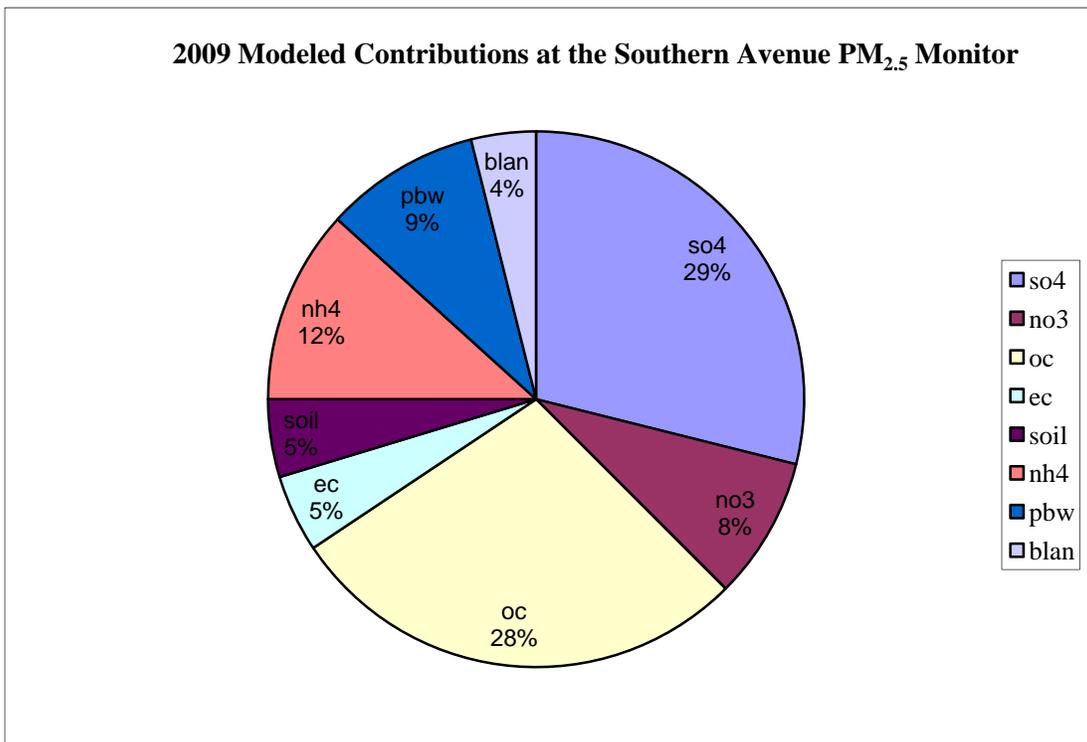
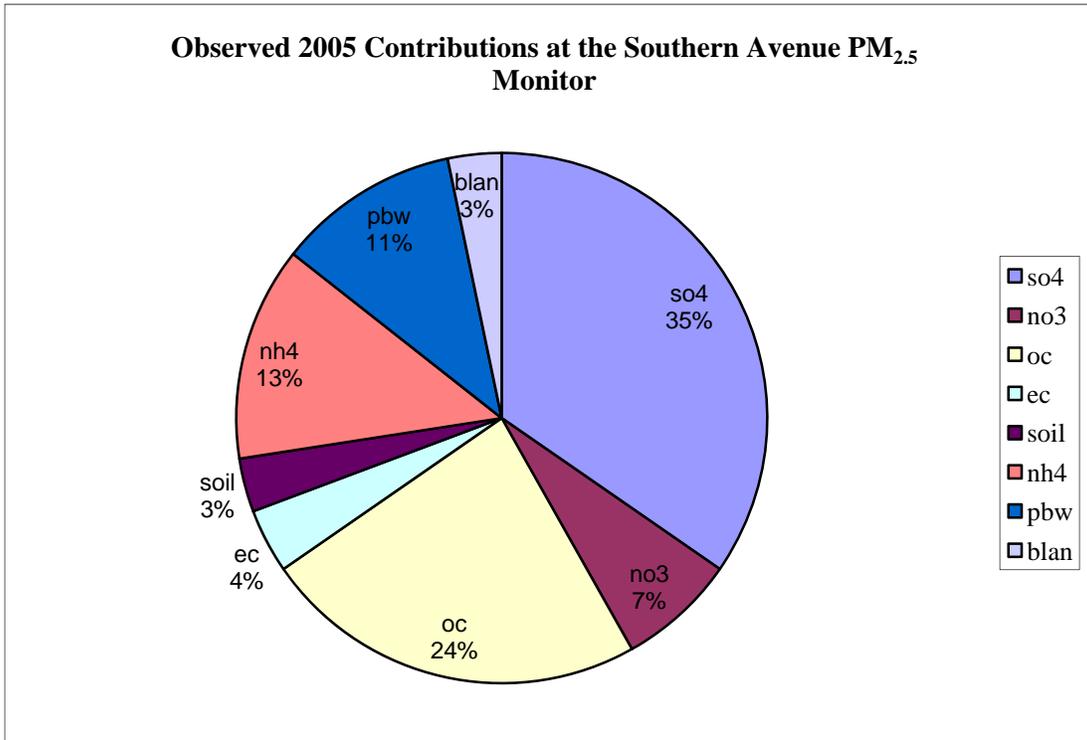
Observed 2005 Contributions at the Elizabethtown PM_{2.5} Monitor



2009 Modeled Contributions at the Elizabethtown PM_{2.5} Monitor

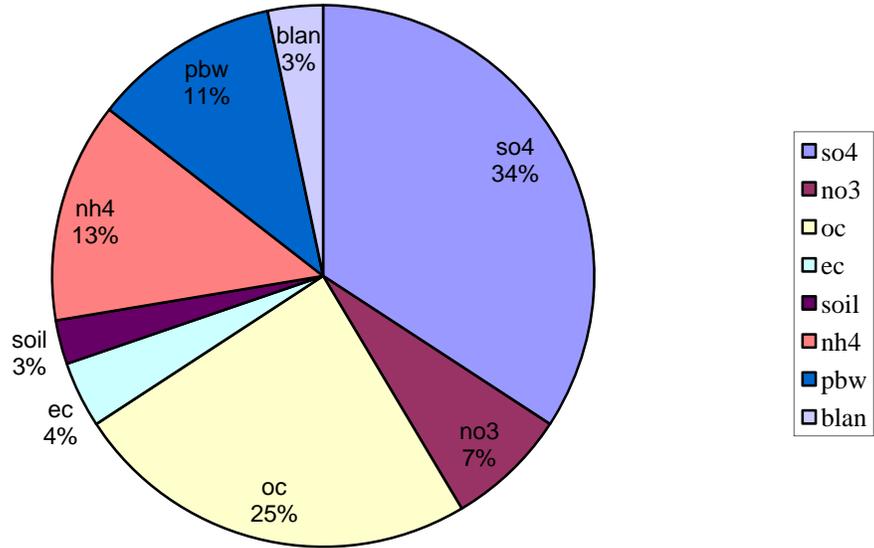


Modeled Contribution by Species at the Southern Avenue – Louisville, Kentucky PM_{2.5} Monitor

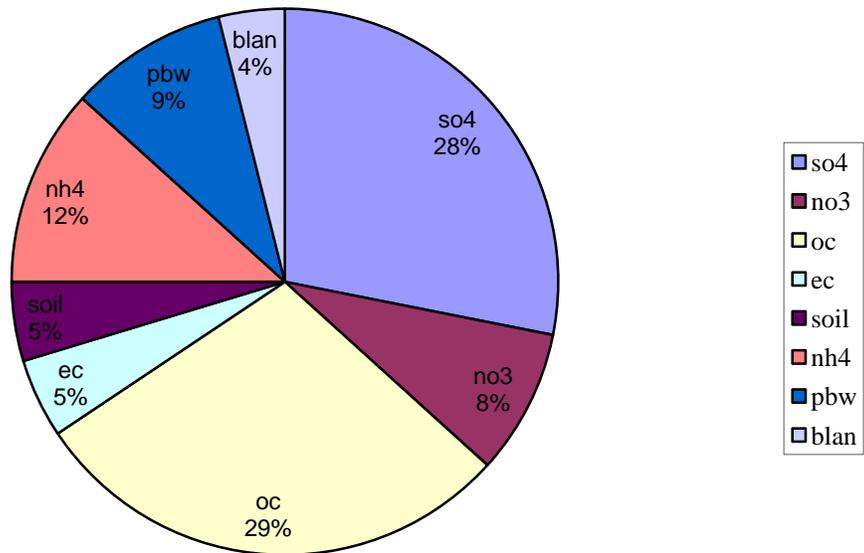


Modeled Contribution by Species at the Wyandotte Park – Louisville, Kentucky PM_{2.5} Monitor

Observed 2005 Contributions at the Wyandotte Park PM_{2.5} Monitor

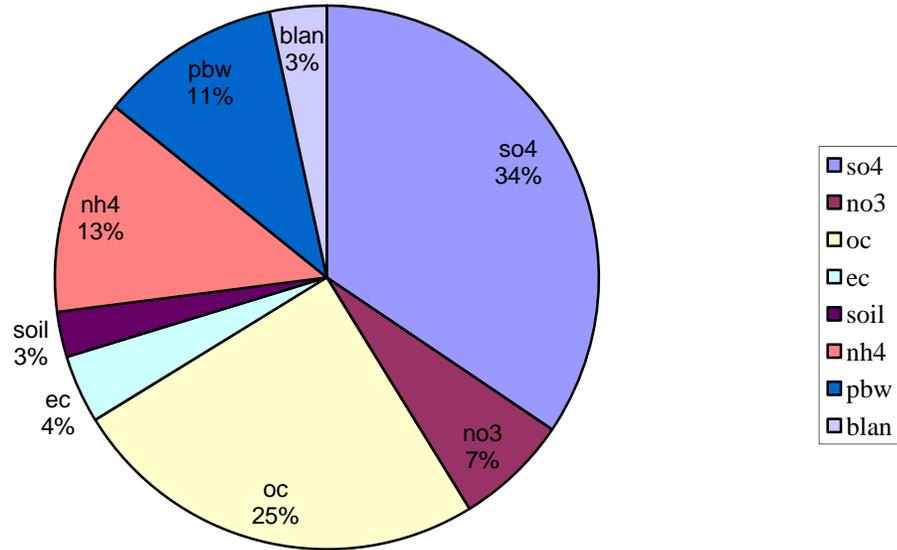


2009 Modeled Contributions at the Wyandotte Park PM_{2.5} Monitor

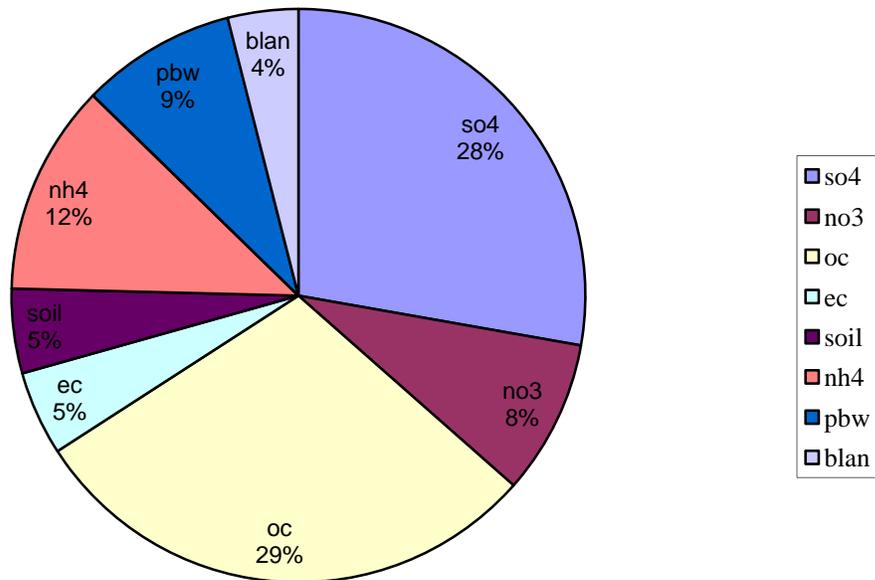


**Modeled Contribution by Species at the Barret Avenue –
Louisville, Kentucky PM_{2.5} Monitor**

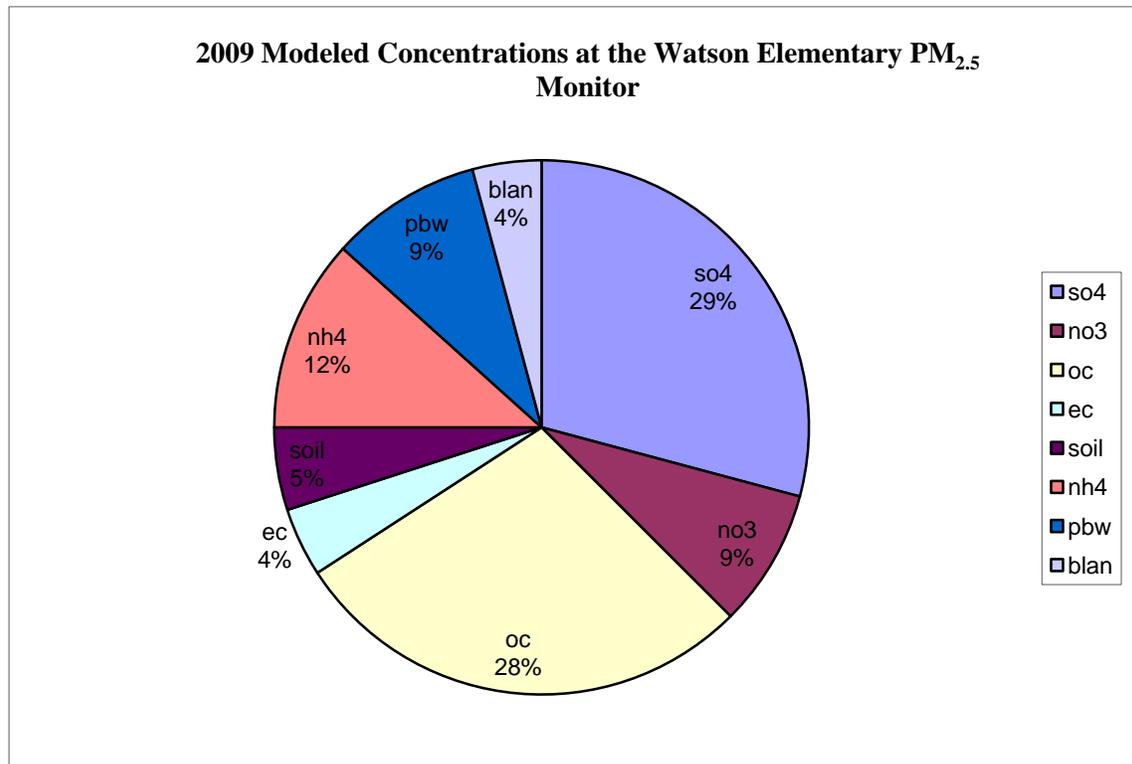
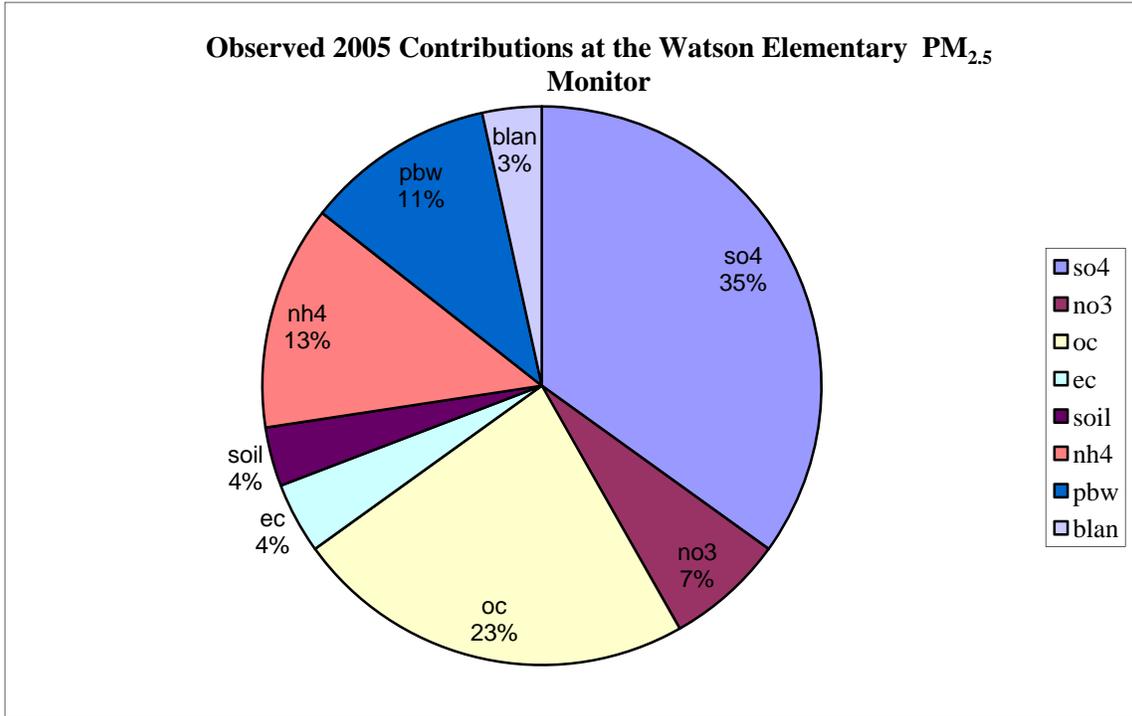
Observed 2005 Contributions at the Barret Avenue PM_{2.5} Monitor



2009 Modeled Contributions at the Barret Avenue PM_{2.5} Monitor



**Modeled Contribution by Species at the Watson Elementary –
Louisville, Kentucky PM_{2.5} Monitor**



Distribution of PM_{2.5} Concentration Days on the AQI Levels of Health Concern for the Louisville Area

