Appendix E

California Regional PM10/PM2.5 Air Quality Study Publications
Appendix E: California Regional PM10/PM2.5 Air Quality Study Publications

The California Regional PM10/PM2.5 Air Quality Study (CRPAQS) is a comprehensive public/private sector collaborative program with two main goals:

1. to provide an improved understanding of particulate matter and visibility in central California, and
2. to provide decision-makers with the tools needed to identify equitable and efficient control methods.

One of the goals of the CRPAQS is to evaluate both the national and State air quality standards for PM10 and for PM2.5, as well as provide products to support the development of effective PM10 and PM2.5 attainment plans for Central California. As such, the 2012 PM2.5 Plan is foundationally supported by the science and research established through the CRPAQS.

The following list of completed publications under CRPAQS serves as an illustration of the significant investment and effort by the contributors and researchers involved in this study. Additional CRPAQS studies are currently being conducted giving further support to the region’s understanding of particulate matter and providing guidance for effective control strategies.
CALIFORNIA REGIONAL PM10/PM2.5 AIR QUALITY STUDY PUBLICATIONS


EPA/A&WMA International Symposium on Measurement of Toxic and Related Air Pollutants, Research Triangle Park, NC.


55. Chinkin, L. R. et al., 1997, “IMS 95 Data Analysis Workplans for Tasks 4.1.2, 4.5.1, 4.5.3, 4.6.1, 4.6.2, 4.7.1, and 4.7.2”, prepared by Sonoma Technology, Inc. for the San Joaquin Valleywide Air Pollution Study Agency.


Valley Final Report”, prepared by Sonoma Technology, Inc. for the San Joaquin Valleywide Air Pollution Study Agency.


95. Pun, B. et al., 1998, “Comments on Field Program Plan for the California Regional PM10/PM2.5 Air Quality Study”, prepared by Atmospheric and Environmental Research for Pacific Gas & Electric.


134. Pun B. K. et al., 2001; “Sensitivity of Particulate Matter Nitrate Formation to Precursor Emissions in the California San Joaquin Valley”; Environmental Science and Technology; (35), 2979-2987.


153. Countess Environmental, 2002, “Quantifying the Contribution of Fugitive Geological Dust to Ambient PM10 and PM2.5 Concentrations in the San Joaquin Valley”, prepared for the San Joaquin Valley Air Pollution Control District.


191. DeYoung, R.J. et. al., 2004, “Aerosol Transport in the California Central Valley Observed by Airborne Lidar”


195. Bahm, K.E. et. al., 2004, “Detecting Source Activities and Reconciling Ambient Measurement Variations with Field Observations – California Regional PM10 and PM2.5 Air Quality Study (CRPAQS) Data Analysis Task 4.3”, prepared for the San Joaquin Valleywide Air Pollution Study Agency by Sonoma Technology Inc., STI-902328-2579-TM.


203. Buhr, M.P. et. al., 2004, “Comparison and Descriptive Evaluation of the Airborne and Ground-Based Measurements Collected During the CCOS Field Experiment”, prepared by Sonoma Technology Inc. for the San Joaquin Valleywide Air Pollution Study Agency.

204. Yoho, D. et. al., 2004, “How is Visibility Affected by Atmospheric Constituents, Sources, and Meteorology – Sources of Light Extinction in the Mojave Desert”, prepared
by Technical & Business Systems for the San Joaquin Valleywide Air Pollution Study Agency.


206. Pun, B., 2004, “CRPAQS Task 2.7 When and Where Does High O3 Correspond to High PM2.5? How Much PM2.5 Corresponds to Photochemical End Products?”, prepared by Atmospheric and Environmental Research, Inc. for the San Joaquin Valleywide Air Pollution Study Agency.


214. Collett, J., 2005, “Pollution Processing by Radiation Fogs During the California Regional PM10/PM2.5 Air Quality Study (CRPAQS)”, presented at the American Association for Aerosol Research (AAAR), Supersites Conference, February 2005, Atlanta, GA.


221. Pun, B., 2005, “Relationships Between Ozone and PM During CRPAQS”, presented at the American Association for Aerosol Research (AAAR), Supersites Conference, February 2005, Atlanta, GA.


253. Ying, Q. et. al., 2008, “Modeling Air Quality During the California Regional PM10/PM2.5 Air Quality Study (CRPAQS) Using the UCD/CIT Source Oriented Air Quality Model – Part I. Base Case Model Results”, Atmospheric Environment, (42), 8954-8966.

254. Ying, Q. et. al., 2008, “Modeling Air Quality During the California Regional PM10/PM2.5 Air Quality Study (CRPAQS) Using the UCD/CIT Source Oriented Air Quality Model – Part II. Regional Source Apportionment of Primary Airborne Particulate Matter”, Atmospheric Environment, (42), 8967-8978.


256. Ying, Q. et. al., 2008, “Modeling Air Quality During the California Regional PM10/PM2.5 Air Quality Study (CRPAQS) Using the UCD/CIT Source Oriented Air Quality Model – Part III. Regional Source Apportionment of Secondary and Total Airborne PM2.5 and PM0.1”, Atmospheric Environment, (43), 419-430.


258. Kleeman, M.J., et. al., 2009, “Source Apportionment of Fine (PM1.8) and Ultrafine (PM0.1) Airborne Particulate Matter During a Severe Winter Pollution Episode, Environmental Science & Technology, (43), 272-279.


