

EPA Citizen Scientist Air Monitoring Tool Kit

Information Gathered by: United Sludge Free Alliance

<http://www.epa.gov/air-research/air-sensor-toolbox-citizen-scientists-resources>

Air Sensor Guidebook

Contact

[NERLScience](#)

email: nerlscience@epa.gov

Citation: Williams, R., Vasu Kilaru, E. Snyder, A. Kaufman, T. Dye, A. Rutter, A. Russell, AND H. Hafner. Air Sensor Guidebook. U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-14/159 (NTIS PB2015-100610), 2014.

http://cfpub.epa.gov/si/si_public_record_report.cfm?dirEntryId=277996&simpleSearch=1&searchAll=air+sensor+guidebook

Description:

This Air Sensor Guidebook has been developed by the U.S. EPA to assist those interested in potentially using lower cost air quality sensor technologies for air quality measurements. Its development was in direct response to a request for such a document following a recent scientific conference (Apps and Sensors for Air Pollution-2012). Low cost air quality sensors (\$100-\$2500) are now commercially available in a wide variety of designs and capabilities. This is an emerging technology area and one that is quickly evolving. Even so, their availability has resulted in questions from many as to how they might be used appropriately. This document attempts to provide useful information concerning some of those questions.

Purpose/Objective:

The National Exposure Research Laboratory's (NERL's) Human Exposure and Atmospheric Sciences Division (HEASD) conducts research in support of EPA's mission to protect human health and the environment. HEASD's research program supports Goal 1 (Clean Air) and Goal 4 (Healthy People) of EPA's strategic plan. More specifically, our division conducts research to characterize the movement of pollutants from the source to contact with humans. Our multidisciplinary research program produces Methods, Measurements, and Models to identify relationships between and characterize processes that link source emissions, environmental concentrations, human exposures, and target-tissue dose. The impact of these tools is improved regulatory programs and policies for EPA.

URLs/Downloads:

[Air Sensor Guidebook](#) (PDF,NA pp, 5239 KB, [about PDF](#))

Record Details:

Record Type: DOCUMENT (PUBLISHED REPORT/REPORT)

Start Date: 06/09/2014

Completion Date: 06/09/2014

Record Last Revised: 07/02/2015

Record Created: 06/09/2014

Record Released: 06/09/2014

OMB Category: Other

Record ID: 277996

Organization:

U.S. ENVIRONMENTAL PROTECTION AGENCY

OFFICE OF RESEARCH AND DEVELOPMENT

NATIONAL EXPOSURE RESEARCH LAB

HUMAN EXPOSURE AND ATMOSPHERIC SCIENCES DIVISION

EXPOSURE MEASUREMENTS & ANALYSIS BRANCH

Information Gathered by
United Sludge Free Alliance
PO Box 39
Kempton, PA 19529
www.usludgefree.org
610-823-8258