

Alert is a monthly update on transportation and air quality planning activities in the Delaware Valley.

Air Quality Regulations

U.S. EPA Extends Deadline to Designate Ozone Non-Attainment Areas by One Year.

On October 1, 2015, the U.S. Environmental Protection Agency (EPA) strengthened the primary and secondary air quality standards for ground-level ozone to 70 parts per billion (ppb), based on extensive scientific evidence about ozone's effects on public health and welfare. This regulatory action started a procedure in which states would recommend to EPA areas that are in non-attainment of the new 2015 Ozone National Ambient Air Quality Standard (NAAQS). EPA is required to review the states' recommendations and issue the final ozone non-attainment area designations by October 2017.

Delaware, New Jersey, and Pennsylvania submitted recommendations to the EPA to designate non-attainment areas for the new 2015 Ozone standard based on air quality monitoring data and a five-part analysis that includes travel patterns, meteorology, and jurisdictional boundaries in late 2016.

Most counties in the DVRPC region were expected to be classified as having a "marginal" ozone problem and thus would be given three years to attain the 2015 Ozone NAAQs. The Philadelphia-Camden-Wilmington Non-Attainment Area for the 2008 Ozone NAAQs included sixteen counties in Delaware, Maryland, New Jersey, and Pennsylvania, including the entire DVRPC region.

On June 28, 2017, EPA Administrator Scott Pruitt extended the deadline for EPA to issue the non-attainment designations by one year, from October 1, 2017 to October 1, 2018. Mr. Pruitt stated that there is insufficient information to complete area designations for the new ozone standards due to complex issues regarding the 2015 Ozone NAAQS and its implementation, such as understanding the role of background ozone levels and appropriately accounting for international transport of pollutants. Mr. Pruitt announced that the deadline extension would allow the agency to develop additional flexibilities for states to comply with the ozone NAAQS and to consider completely all designation recommendations provided by state governors, including full consideration of exceptional events impacting designations, and to provide new agency officials time to complete their review of the 2015 Ozone standards.



Monday October 18, 2017

Changing Lanes Conference 9:00 AM – 3:00 PM

Location of Event: Union League of Philadelphia 140 South Broad Street Philadelphia, PA

www.dvrpc.org/changinglanes

Tuesday October 24, 2017

Vibrant Ports – Healthy Ports Workshop 9:00 AM – 3:00 PM

Location of Meeting: DVRPC Conference Center 8th Floor 6th and Race Streets Philadelphia, PA

Under this action, the EPA will also be establishing an Ozone Cooperative Collaborative Task Force, whose purpose will be to develop flexible strategies for states to address complying with the ozone NAAQS. Mr. Pruitt

acknowledged that this regulatory flexibility may influence the final non-attainment designations. This action is not a revocation of the 2015 Ozone NAAQS but may have impacts on the way that standard is implemented.

After EPA finalizes the ozone nonattainment area designations, the affected states are required to take additional actions to improve air quality, including developing implementation plans outlining how the areas will attain and maintain the standards by reducing air pollutant emissions contributing to ground-level ozone concentrations. Until the non-attainment area designations for the 2015 Ozone NAAQS are finalized and implementation guidance for the new standards are implemented, the DVRPC region will continue to comply with requirements outlined by the 2008 Ozone NAAQS, including demonstrating transportation conformity of the DVRPC Long-Range Plan and Transportation Improvement Programs.

For more information on this EPA action, please visit: <u>www.epa.gov/ozone-designations/extension-deadline-area-designations-2015-ozone-standards</u>.



Air Quality Information

Research Shows that Carpooler Compatibility Increases Rideshare Program Success

Research conducted by the University of Waterloo in Ontario, Canada, and published in the Journal *Transportation Research Part C*, showed that ensuring would-be carpoolers are riding with people they actually like could potentially decrease carpooler's single occupancy vehicle usage by nearly 60 percent. The researchers used social media analytics, algorithms, and computer simulation to match potential carpoolers with people driving to work. The researchers termed the analysis "GRAAL" or the "GReen And SociAL Optimization of Crowd Sourced Data".

"Usually carpooling is about just matching people depending on geographical location and time of schedule," said Bissan Ghaddar, professor of management engineering at the University of Waterloo and author of the study. "We wanted to include the social aspect into the equation, because it's always awkward when there is silence in the car, especially if it's a long commute."

In compiling the study, Ghaddar worked with colleagues at IBM and two universities in Italy to analyze the Twitter feeds of potential carpoolers, looking for insights into their personal interests. They then examined the users' social circles to see if they followed like-minded friends or sought out people with different views and fed that information into a computer algorithm designed to match carpoolers based on their geo-tagged location, time preferences, as well as their personalities. The researchers used online surveys to align their analysis results to the experiences of actual carpoolers.

As a final step, they simulated the impact of their matchmaking using real-world data from Rome and San Francisco. They found that if carpoolers are compatible, people's satisfaction significantly increased and caruse dropped by 57 percent in Rome and by 40 percent in San Francisco.

This article is the latest in a body of emerging research on using social media and crowd-sourced data to develop more effective rideshare programs. The authors acknowledge the need for more field studies to better test their software's impacts on real world carpool matching systems.

For more information on "The GRAAL of carpooling: GReen And sociAL optimization from crowd-sourced data," please visit: <u>https://uwaterloo.ca/</u>



DVRPC, 8th Floor 190 N. Independence Mall West Philadelphia, PA 19106-1520 Phone: 215.592.1800 | Fax: 215.592.9125 | Web: www.dvrpc.org

DVRPC NEWS IS FUNDED THROUGH GRANTS FROM THE FEDERAL HIGHWAY ADMINISTRATION (FHWA), THE FEDERAL TRANSIT ADMINISTRATION (FTA), THE PENNSYLVANIA AND NEW JERSEY DEPARTMENTS OF TRANSPORTATION, AND DVRPC'S MEMBER GOVERNMENTS. DVRPC FULLY COMPLIES WITH TITLE VI OF THE CIVIL RIGHTS ACT OF 1964 AND RELATED STATUTES AND REGULATIONS IN ALL PROGRAMS AND ACTIVITIES. FOR MORE INFORMATION, OR TO OBTAIN A TITLE VI COMPLAINT FORM, VIEW THE DVRPC WEBSITE, WWW.DVRPC.ORG, OR CALL 215.238.2871.