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Organization:

Title:

Comments: Packet #34: air pollution mortality impacts and need to reduce ghg emissions quickly

Please acknowledge receipt to this and preceding week's packets. Thank you.

To the Wayne Planning Team:

Especially given the poor air quality in the Ohio River basin, including high ozone and particulate levels, the following study must be assessed for its implications of the additional air pollution burden from Wayne fracking and Wayne-associated fracking (private minerals made attractive by the Wayne decision to frack) on mortality and human health in the region.

Ambient PM2.5 Reduces Global and Regional Life Expectancy, Joshua S. Apte et al., Environ. Sci. Technol. Lett., DOI: 10.1021/acs.estlett.8b00360, Pub (web): August 22, 2018
<https://pubs.acs.org/doi/pdfplus/10.1021/acs.estlett.8b00360>:

Exposure to ambient fine particulate matter (PM2.5) air pollution is a major risk for premature death. Here, we systematically quantify the global impact of PM2.5 on life expectancy. Using data from the Global Burden of Disease project and actuarial standard life table methods, we estimate global and national decrements in life expectancy that can be attributed to ambient PM2.5 for 185 countries. In 2016, PM2.5 exposure reduced average global life expectancy at birth by ~1 year with reductions of ~1.2-1.9 years in polluted countries of Asia and Africa. If PM2.5 in all countries met the World Health Organization Air Quality Guideline (10 [micro]g m-3), we estimate life expectancy could increase by a population-weighted median of 0.6 year (interquartile range of 0.2-1.0 year), a benefit of a magnitude similar to that of eradicating lung and breast cancer. Because background disease rates modulate the effect of air pollution on life expectancy, high age-specific rates of cardiovascular disease in many polluted low- and middle-income countries amplify the impact of PM2.5 on survival. Our analysis adds to prior research by illustrating how mortality from air pollution substantially reduces human longevity.

Sincerely,

Heather Cantino, Steering Committee Chair,

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on behalf of Athens County Fracking Action Network,

acfan.org, acfanoio@gmail.com

Buckeye Environmental Network (formerly Buckeye Forest Council), Roxanne Groff, board chair

Jean Andrews, Documentary Video Producer, "A Forest Returns: The Success Story of Ohio's Only National Forest as Told by Ora Anderson"

Concerned Citizens of New Concord Muskingum County, OH 43762

Meghan Wynne, Organizer