

THE SCIENCE ON SHALE GAS DEVELOPMENT

A Survey of the Environmental Public Health Literature

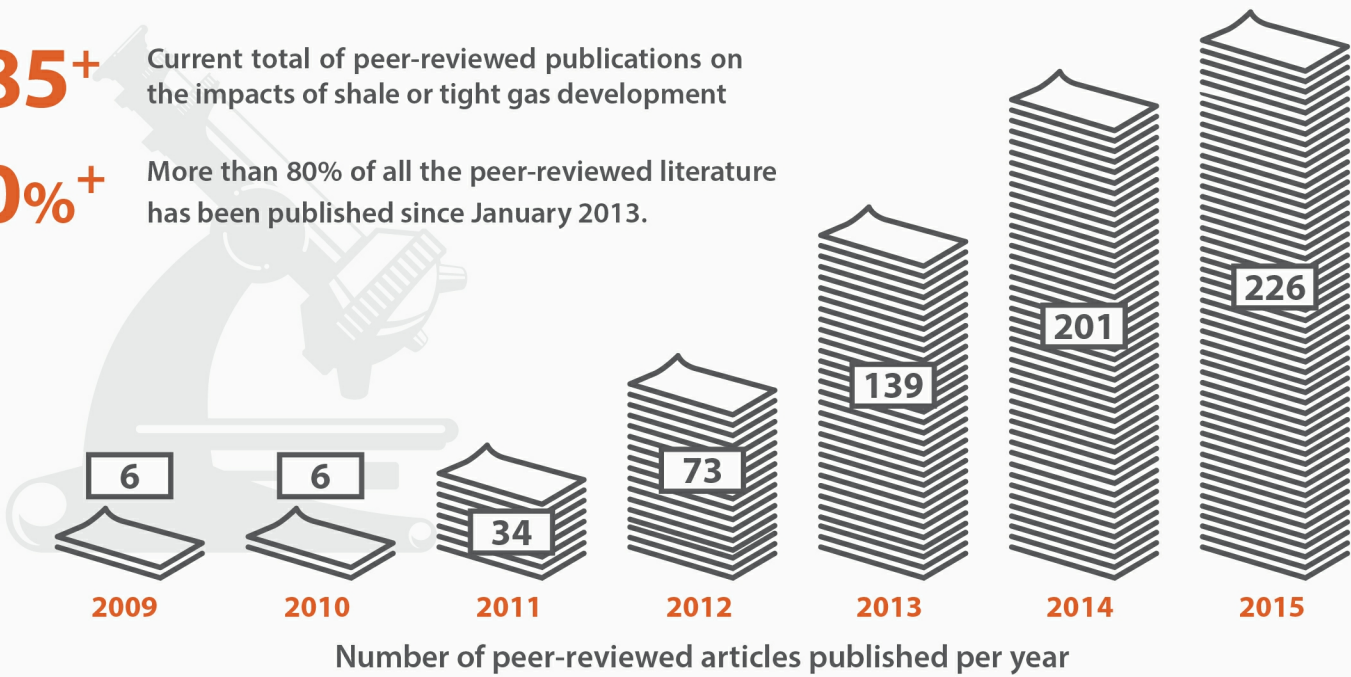
The scientific community is **only beginning to understand** the impacts of shale and tight gas development on human health and the environment. Many data gaps remain, but **numerous hazards and risks have been identified.**

685+

Current total of peer-reviewed publications on the impacts of shale or tight gas development

80%+

More than 80% of all the peer-reviewed literature has been published since January 2013.



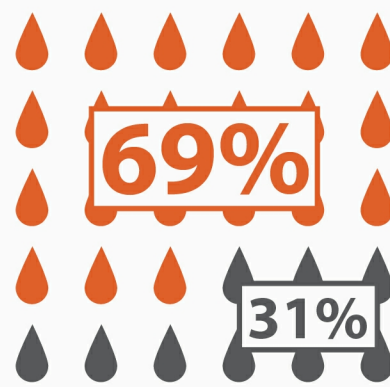
HEALTH



26 studies contain findings that indicate **public health hazards, elevated risks, or adverse health outcomes**

5 studies contain findings that indicate no significant public health hazards, elevated risks, or adverse health outcomes

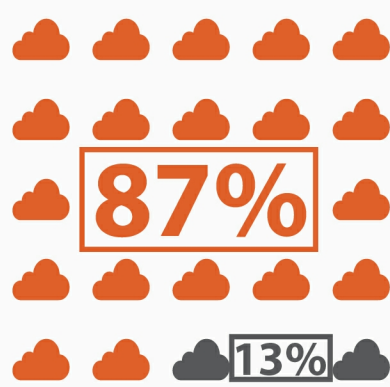
WATER QUALITY



40 studies contain findings that indicate **potential, positive association, or actual evidence of water contamination**

18 studies contain findings that indicate minimal potential, no association or rare incidence of water contamination

AIR QUALITY



40 studies contain findings that indicate **elevated air pollutant emissions and/or atmospheric concentration.**

6 studies contain findings that indicate no significantly elevated air pollutant emissions and/or atmospheric concentration

SOURCE:

"Toward an Understanding of the Environmental and Public Health Impacts of Unconventional Natural Gas Development: A Categorical Assessment of the Peer-Reviewed Scientific Literature, 2009-2015", PLOS ONE. 2016.: <<http://dx.plos.org/10.1371/journal.pone.0154164>>

ATTRIBUTIONS:

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