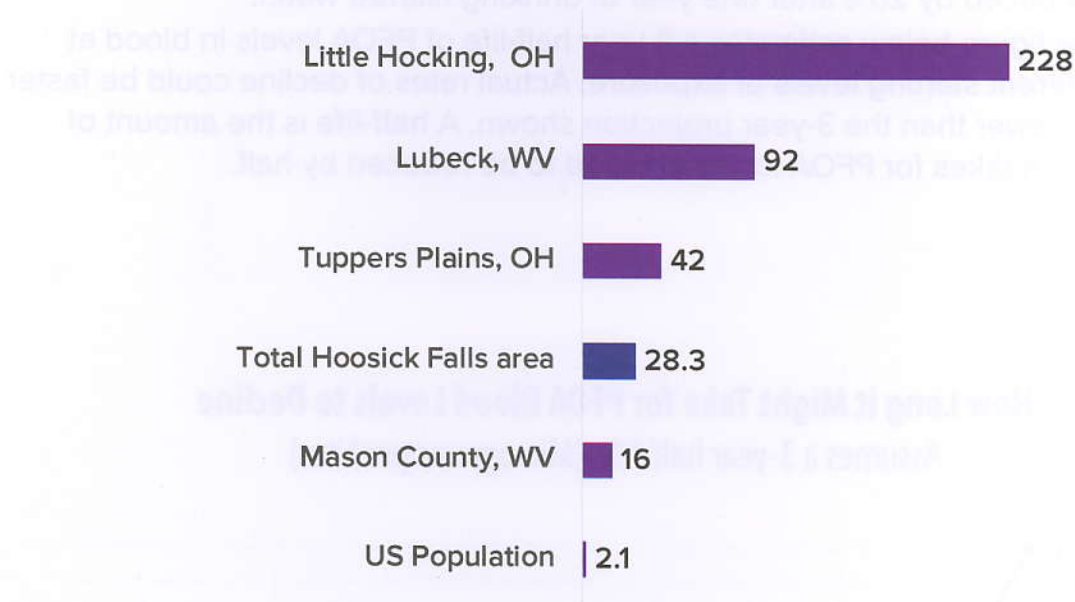


# PFOA Blood Levels of Hoosick Residents Compared to Residents from Other Communities

## PFOA level in Blood: Hoosick Compared to National Levels and Other Community Studies of Public Water Supplies (Micrograms per Liter)



### Take Away Messages:

- The other communities are good comparisons because they were exposed to PFOA in drinking water.
- The levels of PFOA in Hoosick Falls public water users' blood is within the range seen in other communities with drinking water exposures.
- The levels of PFOA in blood of residents of communities with drinking water exposures are significantly higher than the U.S. Average of PFOA levels in people's blood.
- The U.S. population is included to compare levels between exposed communities to national PFOA levels in blood.

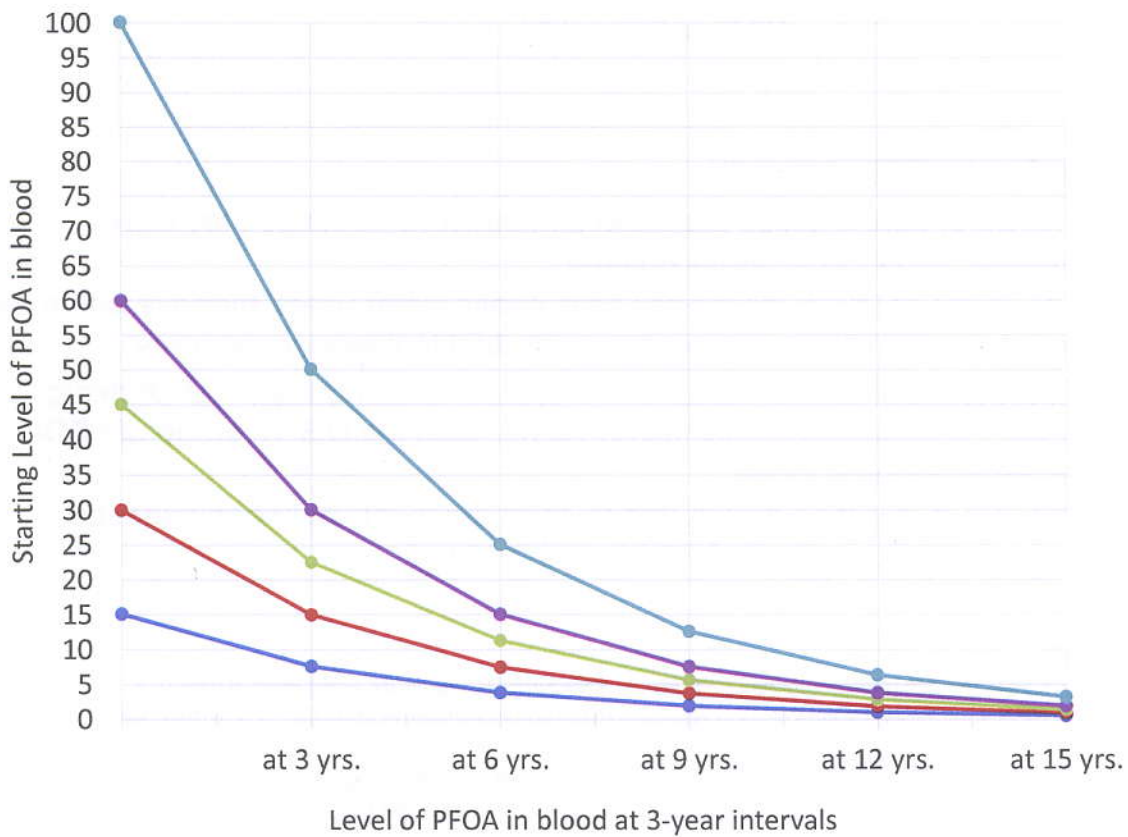
### Sources:

- *Selected Ohio/West Virginia water districts: Paustenbach DJ, Panko JM, Scott PK et al (2007). A methodology for estimating human exposure to perfluorooctanoic acid (PFOA): a retrospective exposure assessment of a community (1951-2003). J Toxicol Environ Health 70:28-57.*
- *U.S. Average: The US Average data is from National Report on Human Exposure to Environmental Chemicals, U.S. Centers for Disease Control and Prevention (CDC), 2011-12.218.*

## How Long Does PFOA Stay in the Body?

- Studies of other communities show that PFOA levels in blood go down after carbon filtration systems are installed.
  - In a Minnesota study, blood levels continued to decrease after filtration systems were installed for public and private wells.
  - In a Lubeck, West Virginia study, average PFOA blood levels were reduced by 26% after one year of drinking filtered water.
- The figure below estimates a 3-year half-life of PFOA levels in blood at different starting levels of exposure. Actual rates of decline could be faster or slower than the 3-year projection shown. A **half-life** is the amount of time it takes for PFOA levels in blood to be reduced by half.

### How Long it Might Take for PFOA Blood Levels to Decline Assumes a 3-year half-life (Micrograms per Liter)



Bartell SM, Calafat AM, Lyu C, et al. 2010. Rate of decline in serum PFOA concentrations after granular activated carbon filtration at two public water systems in Ohio and West Virginia. *Environ Health Perspect.* 118(2):222-8