## Attachment 2. PFAS Serum Levels, Pease vs. External Populations

## Attachment 2a. Pease serum PFAS levels in µg/L, by age groups, 2018

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| --- | --- | --- | --- | --- |
| **Population age, 2018** |  | **PFOS** | **PFOA** | **PFHxS** |
| 4 – 17 (N=379) | Mean | 9.66 | 3.85 | 5.47 |
|  | SD | 6.01 | 2.14 | 4.62 |
| Median | 8.09 | 3.40 | 4.10 |
| Geometric mean | 7.98 | 3.29 | 3.75 |
| Maximum | 30.80 | 12.00 | 31.70 |
| Top quartile | 12.70 | 5.00 | 7.60 |
| Top quintile | 14.20 | 5.41 | 8.79 |
|  |  |  |  |  |
| ≥18 (n=1,190) | Mean | 11.59 | 3.76 | 7.05 |
|  | SD | 9.63 | 2.74 | 8.75 |
| Median | 9.30 | 3.12 | 4.21 |
| Geometric mean | 8.82 | 3.02 | 4.26 |
| Maximum | 95.60 | 32.00 | 116.00 |
| Top quartile | 14.20 | 4.65 | 8.60 |
| Top quintile | 16.10 | 5.20 | 10.00 |
|  |  |  |  |  |
| ≥18, not a firefighter (n=1,092) | Mean | 10.95 | 3.75 | 6.52 |
|  | SD | 8.32 | 2.78 | 7.44 |
| Median | 8.97 | 3.10 | 4.08 |
| Geometric mean | 8.53 | 2.99 | 4.04 |
| Maximum | 78.00 | 32.00 | 61.40 |
| Top quartile | 13.70 | 4.62 | 8.10 |
| Top quintile | 15.50 | 5.10 | 9.45 |
|  |  |  |  |  |
| Firefighter (n=98) | Mean | 18.70 | 3.93 | 12.95 |
|  | SD | 17.41 | 2.14 | 16.64 |
| Median | 11.75 | 3.40 | 8.14 |
| Geometric mean | 12.80 | 3.37 | 7.74 |
| Maximum | 95.60 | 12.10 | 116.00 |
| Top quartile | 23.10 | 5.26 | 14.70 |
| Top quintile | 28.64 | 5.90 | 17.46 |

### Attachment 2b. Serum PFAS levels in µg/L, children aged <12 years, Pease vs. comparisons

|  |  |  |  |
| --- | --- | --- | --- |
| **PFAS** | **Pease Tradeport\*** | **TX†** | **CA‡** |
| **Median** | **Geometric Mean** | **95% CI** | **Maximum** | **Median** | **Maximum** | **Median** | **Geometric Mean** | **Maximum** |
| PFOA | 3.63 | 3.43 | 3.23 – 3.64 | 12.00 | 2.85 | 13.50 | 4.50 | 4.46 | 19.50 |
| PFOS | 8.27 | 8.11 | 7.59 – 8.67 | 30.80 | 4.10 | 93.90 | 6.15 | 6.28 | 26.70 |
| PFHxS | 4.24 | 3.83 | 3.48 – 4.22 | 31.70 | 1.20 | 31.20 | 1.25 | 1.30 | 9.80 |
| PFNA | 0.90 | 0.92 | 0.86 – 0.98 | 5.20 | 1.20 | 55.80 | 1.70 | 1.84 | 11.20 |

\* Pease: N=366, aged <12 years; sampling occurred in 2015.

† Texas (TX) reference group: N=300, age ≤12 years (Schecter et al 2012), sampling occurred in 2009.

‡ California (CA) reference group: N=68, ages 2-8 years (Wu et al 2015), sampling occurred in 2007-2009.

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### Attachment 2c. Serum PFAS levels in µg/L, aged ≥12 years, Pease vs. NHANES

|  |  |  |
| --- | --- | --- |
| **PFAS** | **Pease Tradeport\*** | **NHANES 2013-2014†** |
| **Median** | **Geometric Mean** | **95% CI** | **Max.** | **Median** | **Geometric Mean** | **95% CI** | **95th percentile** |
| PFOA | 3.10 | 2.99 | 2.87 – 3.11 | 32.00 | 2.07 | 1.94 | 1.76 – 2.14 | 5.57 |
| PFOS | 9.17 | 8.74 | 8.37 – 9.13 | 95.60 | 5.20 | 4.99 | 4.50 – 5.52 | 18.50 |
| PFHxS | 4.16 | 4.21 | 3.98 – 4.46 | 116.00 | 1.40 | 1.35 | 1.20 – 1.60 | 5.60 |
| PFNA | 0.70 | 0.68 | 0.65 – 0.70 | 4.90 | 0.70 | 0.68 | 0.61 – 0.72 | 2.00 |

\* N=1,212 ages ≥12 years, sampled in 2015.

**†** N=2,168 ages ≥12 years.