

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

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

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 (Schechter 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.

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	95 th 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.