Maine CDC’s Role in the State’s PFAS Response

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Responding to Families with High PFAS Well Water

Maine Department of Health and Human Services
New Recommendations on PFAS Blood Testing and Health Monitoring

Recommendations for:
- Health effects of PFAS based on weight of evidence
- When clinicians should offer blood testing for PFAS
- Health monitoring based on PFAS blood levels
- Frequency of repeat testing for PFAS with a long half-life
- Improvements to the public health response to PFAS exposure

Source: https://www.nationalacademies.org/jour-work/guidance-on-pfas-testing-and-health-outcomes

Sufficient Evidence for a Link between PFAS Exposure and Health Effects

- Increased cholesterol levels
- Decreased vaccine response
- Decreased infant and fetal growth
- Increased risk of kidney cancer

Source: https://www.nationalacademies.org/jour-work/guidance-on-pfas-testing-and-health-outcomes
How much is too much PFAS in Soils of Farm Fields

PFOS soil levels can vary a lot even among fields on the same farm.

How much is too much PFOS in soil used for growing forage for dairy cows?

Soil → Hay/Corn → Cow → Milk → Child

Maine Department of Health and Human Services
PFAS move differently between media

![Diagram showing PFAS concentrations in soil, hay, and beef](image)

Maine Department of Health and Human Services

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How much is too much PFAS in food?

\[
\text{Toxicity Value} \quad \frac{\text{Consumption Rate}}{= \text{Action Level}}
\]

Maine Department of Health and Human Services
Changing Toxicity Values

PFOS Toxicity Values

Tolerable Daily Intake (mg/kg/day)

- EPA 2016
- MA
- MI
- MN
- NH
- ATS
- WI
- NJ
- NY
- CA
- EPAS
- EPA 2022

EPA - Human data, human system toxicity, sum of PFAS, PFOS, PFNA, PFHxS
CA - Human data, changes in cholesterol, proposed
EPA 2022 - Human data, immune system toxicity, interim value, subject to change

Progress in Reducing PFOS in Milk Takes Time

PFOS Milk Concentration (ng/L ppt)

- 2012-2015
- 2016-2018
- 2019-2020
- 2021-2022
- 2023-2024
- 2025-2026
- 2027-2028
- 2029-2030

Maine Department of Health and Human Services
Testing of Public Water Supplies

Sum of 6 PFAS (ppt)

For more information

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