**MAINE PFAS SCREENING LEVELS** June 2021

**Interim Drinking Water Standard**[**4**](#_bookmark2) **(ng/l or ppt)**

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| **Soil Remedial Action Guidelines**[**1**](#_bookmark0) **(mg/kg)** | | | | | | |
| **Compound** | Leaching to Groundwater | Residential | Commercial Worker | Park User | Recreator Sediment | Construction Worker |
| **PFBS** | 7.1 | 1,700 | 22,000 | 4,900 | 5,700 | 51,000 |
| **PFOS** | 0.0036 | 1.7 | 22 | 4.9 | 5.7 | 5.1 |
| **PFOA** | 0.0017 | 1.7 | 22 | 4.9 | 5.7 | 5.1 |

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| **Soil Beneficial Use**[**2**](#_bookmark1) **(ng/g, dry weight)** | |
| **Compound** | Beneficial Use |
| **PFBS** | 1,900 |
| **PFOS** | 5.2 |
| **PFOA** | 2.5 |

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| **4** | |
| **Compound** | Fish Tissue |
| **PFBS** | 52 |
| **PFOS** | 0.052 |
| **PFOA** | 0.052 |

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| **Compound** | Residential |
| **PFOS + PFOA + PFHpA + PFNA + PFHxS + PFDA** | 20 |

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| **Milk**[**5**](#_bookmark4) **(ng/l or ppt)** | |
| **Compound** | Action Level |
| **PFOS** | 210 |

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| **Beef**[**6**](#_bookmark5) **(ng/g)** | |
| **Compound** | Action Level |
| **PFOS** | 3.4 |

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| **Dairy**[**7**](#_bookmark6) **- PFOS Crop-Specific Soil Screening Levels (ng/g dry weight)** | | | |
|  | Soil to Hay to Milk Screening Level | Soil to Corn-Silage to Milk Screening Level | Soil to Hay and Corn-Silage to Milk Screening Level |
| **Grass-Based Farm** | 6.8 | 120.0 | 6.4 |
| **Average Maine Farm** | 13.8 | 54.8 | 11.0 |

**Helpful Conversions:** 0.000001 ppm = 0.001 ppb = 1 ppt

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| --- | --- | --- |
| Parts Per Million (ppm) | Parts Per Billion (ppb) | Parts Per Trillion (ppt) |
| 1 milligram/kilogram (mg/kg) = 1 ppm  1 milligram/liter (mg/l) = 1 ppm  1 microgram/gram (μg/g) = 1 ppm | 1 microgram/kilogram (μg/kg) = 1 ppb 1 microgram/liter (μg/l) = 1 ppb  1 nanogram/gram (ng/g) = 1 ppb | 1 nanogram/kilogram (ng/kg) = 1 ppt  1 nanogram/liter (ng/l) = 1 ppt  1 picogram/gram (pg/g) = 1 ppt |

1 Maine Department of Environmental Protection (Maine DEP), [*Maine Remedial Action Guidelines (RAGs) for Contaminated Sites*,](https://www.maine.gov/dep/spills/publications/guidance/rags/Maine-Remedial-Action-Guidelines-2021-05-01.pdf) effective May 1, 2021.

2 Maine DEP, [*Maine Solid Waste Management Rules: Beneficial Use of Solid Wastes*, 06-096 C.M.R. ch. 418,](https://www.maine.gov/sos/cec/rules/06/096/096c418.docx) Appendix A, last amended July 8, 2018.

3 Maine DEP, [*Maine RAGs for Contaminated Sites*,](https://www.maine.gov/dep/spills/publications/guidance/rags/Maine-Remedial-Action-Guidelines-2021-05-01.pdf) effective May 1, 2021.

4 Resolve 2021, ch. 82*,* [*Resolve, To Protect Consumers of Public Drinking Water by Establishing Maximum Contaminant Levels for Certain*](http://www.mainelegislature.org/legis/bills/getPDF.asp?paper=SP0064&amp;item=3&amp;snum=130)[*Substances and Contaminants*,](http://www.mainelegislature.org/legis/bills/getPDF.asp?paper=SP0064&amp;item=3&amp;snum=130) Emergency, effective June 21, 2021.

5 Maine Center for Disease Control and Prevention (CDC), [*Action levels for PFOS in cow’s milk*,](https://www.maine.gov/dep/spills/topics/pfas/Derivation-of-Action-Levels-for-PFOS-in-Cows-Milk-03.28.17.pdf) Memorandum to Rachael Fiske, Maine Department of Agriculture, Conservation and Forestry (DACF), from Andrew Smith, SM, ScD and Thomas Simones, PhD, Maine CDC, March 28, 2017.

6 Maine CDC, [*Action levels for PFOS in beef for use in determining whether beef at a farm is adulterated*,](https://www.maine.gov/dep/spills/topics/pfas/PFOS-Action-Levels-for-Beef-Derivation-Memo-08.04.20.pdf) Memorandum to Nancy McBrady, Maine DACF, from Andrew Smith, SM, ScD and Thomas Simones, PhD, Maine CDC, August 4, 2020.



7 Maine CDC, [*Derivation of PFOS soil screening levels for a soil-to-fodder-to-cow’s milk agronomic pathway*,](https://www.maine.gov/dep/spills/topics/pfas/Agronomic-Pathway-Soil-Screening-Levels-Soil-Fodder-Cows-Milk-09.16.20.pdf) September 16, 2020.

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION [www.maine.gov/dep](http://www.maine.gov/dep)