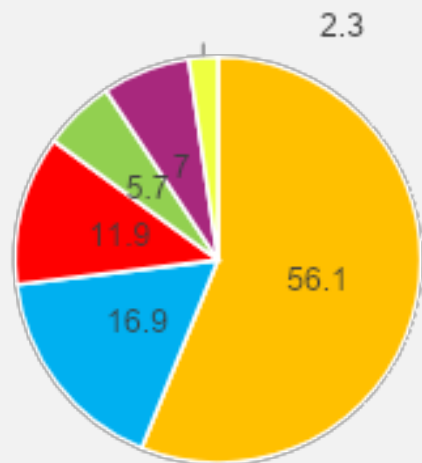


MDE PFAS & Biosolids Regulatory Update



Biosolid Utilization Percentages in 2024



■ Hauled Out of State ■ Hauled to another WWTP ■ Distributed & Marketed ■ Agricultural ■ Landfill ■ Other



1st Regulatory Update February 28, 2023

- Put all new land application permits on hold.
- Requested PFAS data for out of state permittees. Terminated permit coverage for those who did not provide data.
- Started to sample WWTPs in MD.



2nd Regulatory Update Aug 2024 (Sampling)

- Require all Class A and Class B treatment facilities to sample biosolids for PFOS/PFOA. Starting January 2025.

Amount of Sewage Sludge Generated (per 365 day period - dry weight basis)	Testing Frequency
Greater than zero but less than 290 metric tons	Once every year
Equal to or greater than 290 but less than 1,500 metric tons.	Four times every year)
Equal to or greater than 1,500 but less than 15,000 metric tons.	6 times every year
Equal to or greater than 15,000 metric tons.	Once every month

Important Note:
Sampling frequency is the same for permittees.



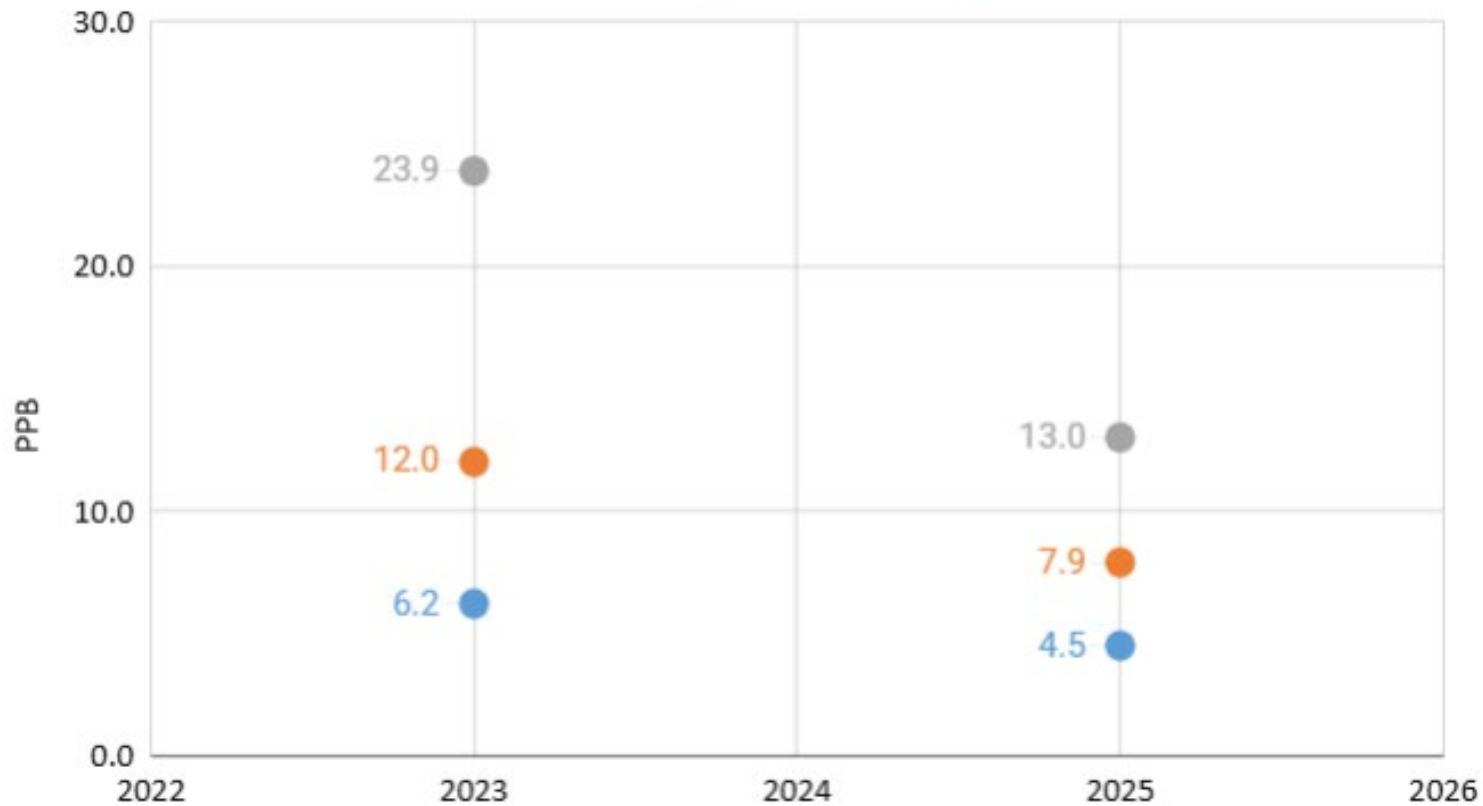
2nd Regulatory Update Aug 2024 (Land Application)

- Recommended land application rates
 - If the level of PFOS or PFOA is 100 µg/kg or above, land application of the biosolids is recommended to be stopped.
 - If PFOS or PFOA is at or above 50 µg/kg, but less than 100 µg/kg, the recommended application rate for land application of biosolids must be lowered to 1.5 dry tons per acre or less.
 - If PFOS or PFOA is at or above 20 µg/kg, but less than 50 µg/kg, the recommended application rate for land application of biosolids must be lowered to 3 dry tons per acre or less.
 - Biosolids with a PFOS concentration below 20 µg/kg and a PFOA concentration below 20 µg/kg may be land applied with no additional requirements after submission of results.

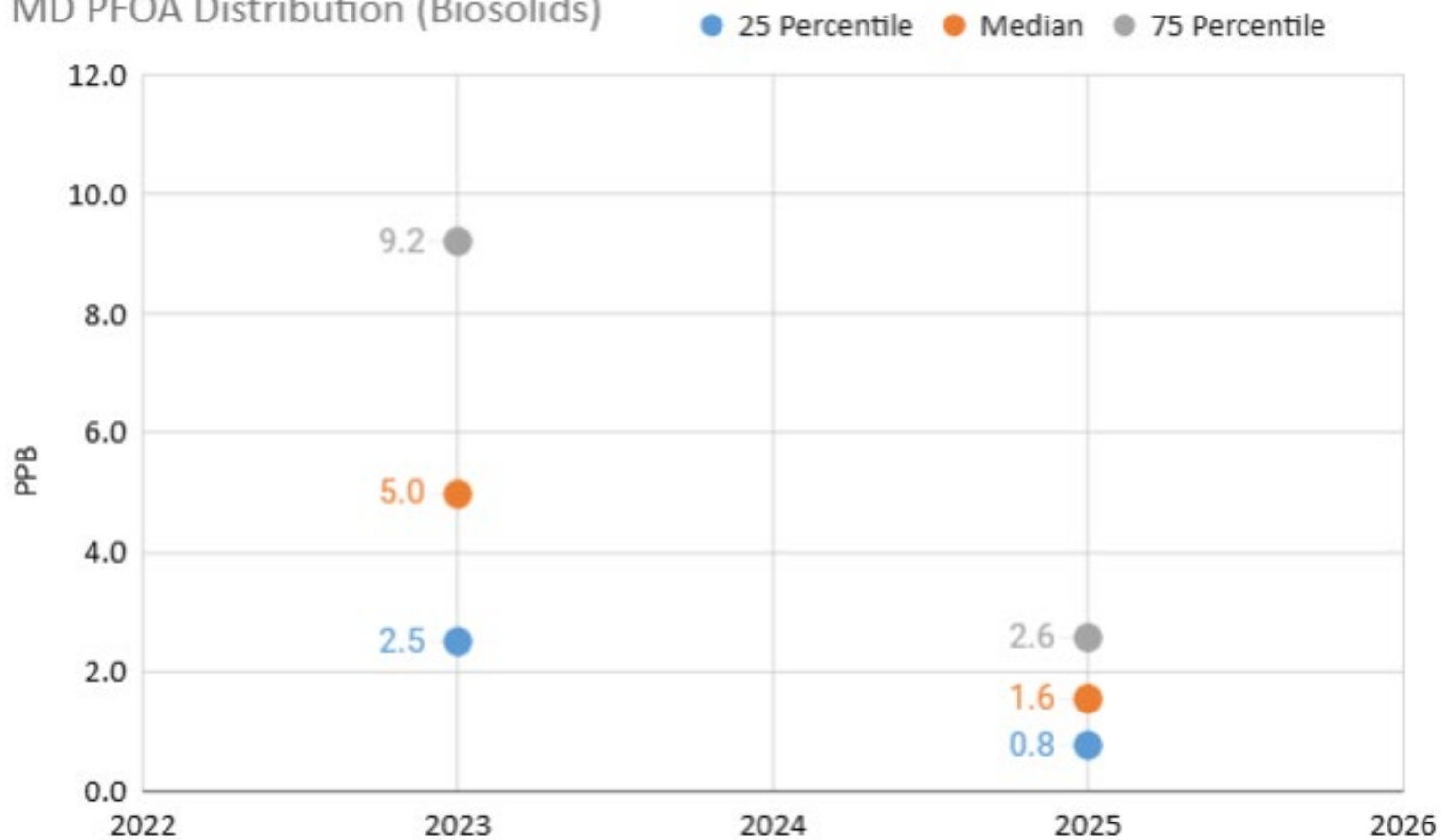


MD PFOS Distribution (Biosolids)

● 25 Percentile ● Median ● 75 Percentile



MD PFOA Distribution (Biosolids)



EPA Draft Risk Assessment

<https://www.epa.gov/biosolids/risk-assessment-pollutants-sewage-sludge>

