

Research Snapshots

North East Biosolids & Residuals Association

- Small non-profit created in 1997 with mission to cooperatively promote the environmentally sound recycling or beneficial use of water, wastewater, and other residuals in the Northeast, New England and eastern Canada
- Other regional associations/collaborators include Northwest Biosolids Association, Mid-Atlantic Biosolids Association, Virginia Biosolids Council and the newest South East Biosolids Association; California Association of Sanitation Agencies
- Research Committees – NWBA's is the best!
<https://nwbiosolids.org/whats-happening/resource-library>
- NEBRA can be nimble! <https://www.nebiosolids.org/why-biosolids-organizations-are-needed>

The National Biosolids Data Project 2018 data



Nat'l Biosolids Data Project

Compiling 2018 Data for the U. S. Biosolids Profession

The Project
Complete the 2nd National Biosolids Regulation, Quality, End Use, and Disposal Survey, compiling 2018 data. The methods and survey tools are ready; our team has been preparing them for the past year. Data collection began in September. The report is expected by end of March 2021. Data and analysis will also be peer reviewed and published, and the project team will disseminate the findings through professional publications and conferences.

Project Team
Ned Beecher, Janine Burke-Wells, and Juliana Beecher, North East Biosolids and Residuals Association (NEBRA); Mallie Lono-Batura, Northwest Biosolids (NW Biosolids); Greg Kester, California Association of Sanitation Agencies (CASA); Bill Toffey, Mid-Atlantic Biosolids Association (MABA); and Nere Goldstein, BioCycle. In-kind advice by Tim Seiple, Pacific NW National Laboratory (PNWL). Project administrative & financial management by NEBRA.

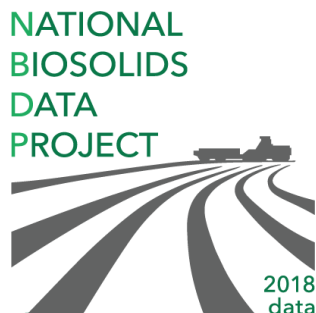
More details: Read the Prospectus.
See the first national biosolids data from 2004 (bottom of this page).

"This is one of the most important databases pieces for resource recovery tracking."
— Tarja Rauch-Williams, Carollo Engineers, lead author of WEF resource recovery baseline

"We as a profession are weakened without data about what we do."
— Greg Kester, CASA

- ➔ The 2nd compilation of biosolids nationwide & by states; first compilation published in 2007 reporting 2004 data
- ➔ Team includes NEBRA, CASA, NW Biosolids, BioCycle, MABA
- ➔ Literature review & methods completed in spring, thanks to a cooperative agreement with EPA Region 4
- ➔ Funding for current project from diverse organizations nationwide
- ➔ Final report planned for end of March 2021; peer-review publication to follow
- ➔ 2 separate surveys: State Coordinators & WRRFs
- ➔ The State Survey is here:
<https://www.surveymonkey.com/r/NBDPStateSurvey7Oct2020>

The NBDP Webpage: <https://www.nebiosolids.org/national-biosolids-survey-2018-data>



The National Biosolids Data Project 2018 data

We need state coordinators help to provide whatever info you have!

PROGRESS:

- 14 state coordinators have started survey... Well done!
- DE, IN, MO, NJ, OR, and TX have completed their spreadsheet & survey and had phone interviews with us. Superb! Thank you.
“It was kind of fun,...” we heard one say.
- The separate survey of WRRFs (“WWTP Survey”) is going out very soon. We are hoping for thousands of responses. Please spread the word - and the email invitation.
- Please start your state’s survey ASAP.
- We are here to help with questions, filling in the survey, talking through it on the phone – whatever you need!
- We know this is a big request; thank you for your time and effort.

NATIONAL
BIOSOLIDS
DATA
PROJECT



2018
data

Support from biosolids leaders nationwide



NATIONAL
BIOSOLIDS
DATA
PROJECT



2018
data

PFAS Cost Impacts on Utilities and Biosolids Management

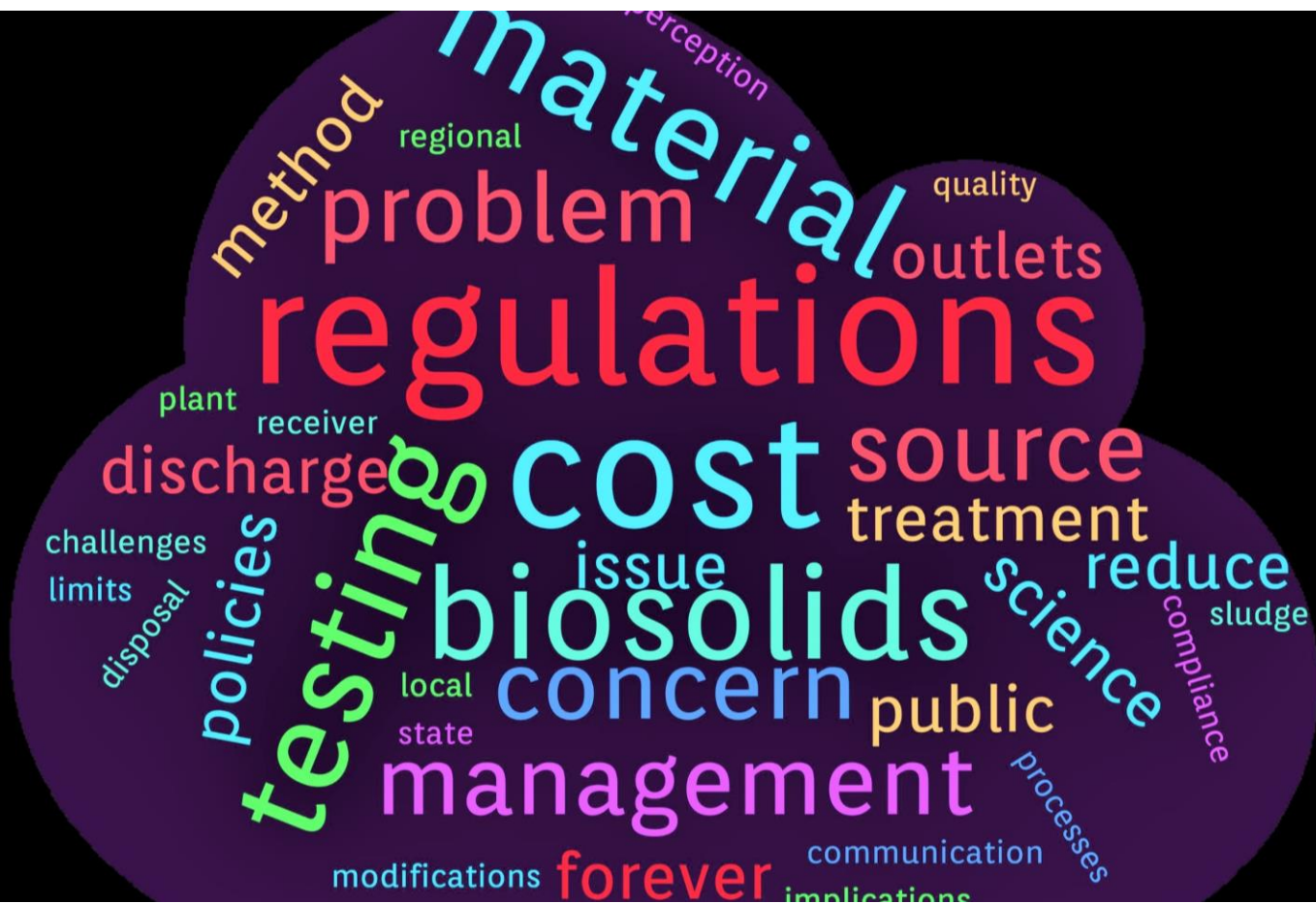


- Average biosolids management cost increased by 37%
- Beneficial reuse programs experience the most significant cost impacts due to PFAS
- 29 entities surveyed; 9 detailed case studies
- Chapter on emerging technologies
- Available on WEF, NACWA, and NEBRA websites
<https://www.nebiosolids.org/pfas-biosolids>

Cost Study



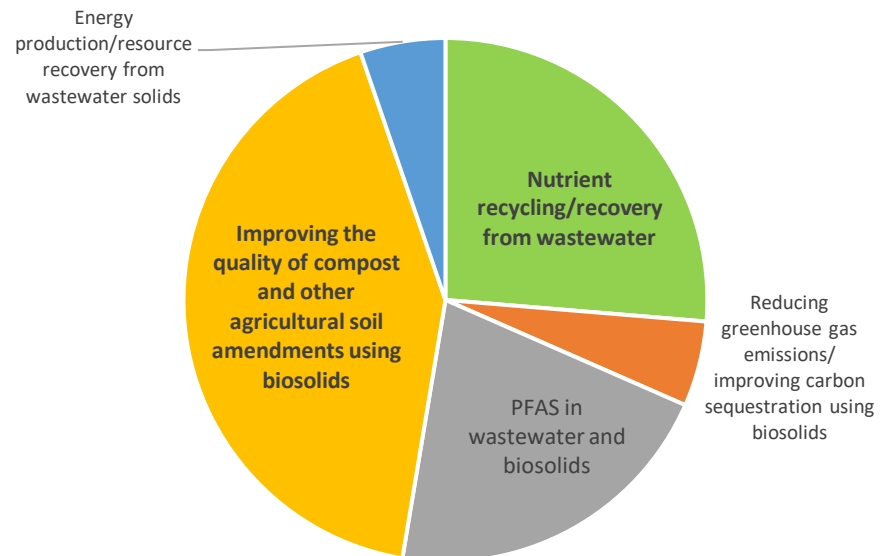
Qualitative Results on PFAS Challenges



Member Research Interests and Other Initiatives

- PFAS fate & transport modeling for Maine soils (Stone Environmental)
- Webinars on innovative solids handling solutions for PFAS
- NW Biosolids: GHG Calculator <https://bggc.nwbiosolids.org/>
- CASA: restoring fire-ravaged land with biosolids <https://casaweb.org/renewable-resources/biosolids/>
- Carbon sequestration in soils with biosolids

Research Topic of Most Interest to
NEBRA Members
10/29/20 survey



Thank You for your Attention!

Questions?

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<http://www.nebiosolids.org>

