

DASHBOARD

Idaho State Biosolids Statistics

Data Quality & Methods	2018	explanations & sources
<p>Quality & Confidence in this state's data:</p> <p>Data sources & methods:</p> <p>State biosolids included in 2018 EPA ECHO data</p>	<p>MODERATE</p> <p><i>State staff track wastewater solids and septage through plans submitted by generators, but annual data are not compiled. Data here are mostly from U. S. EPA ECHO data for 2018, with NBDP data from Boise and Meridian, combined with information from online</i></p> <p>89% % in ECHO vs. the total presented here</p>	<p>ranking by survey team based on information provided in survey (options: High, Moderate, Low, None)</p> <p>https://echo.epa.gov/facilities/facilitysearch?mediaSelected=bioAnnual</p>
<p>Demographics & Wastewater</p> <p>State population:</p> <p>Total land area in state (acres):</p> <p>Population density (persons/square mile):</p> <p>Total number of WRRFs reported in state survey:</p> <p>total number of WRRFs permitted/reported elsewhere:</p> <p>number of WRRFs in EPA ECHO reports for 2018:</p> <p>Average population served per WRRF:</p> <p>Average wastewater flow statewide (MGD, NBDP):</p> <p>avg.wastewater flow statewide (MGD, Seiple):</p> <p>Number of WRRFs that treat >75% of state flow:</p> <p>% of population served by on-site (septic) systems:</p> <p>Biosolids used or disposed / person in 2018 (lbs):</p>	<p>1,754,208</p> <p>52,891,520</p> <p>21.2</p> <p>215</p> <p>178</p> <p>21</p> <p>6,527</p> <p>no data</p> <p>137</p> <p>19</p> <p>20% NBDP estimate</p> <p>24</p>	<p>U. S. Census estimate for July 1, 2018</p> <p>https://www.census.gov/newsroom/prere-kits/2018/pop-estimates-national-state.html</p> <p>calculated</p> <p>survey response by state expert</p> <p>Seiple et al., 2020; state experts, etc.</p> <p>https://echo.epa.gov/facilities/facilitysearch?mediaSelected=bioAnnual</p> <p>calculated</p> <p>survey response by state expert</p> <p>Seiple et al., 2020</p> <p>https://doi.org/10.1016/j.jenvman.2020.110852</p> <p>Seiple et al., 2020</p> <p>https://doi.org/10.1016/j.jenvman.2020.110853</p> <p>no survey response by state expert</p> <p>calculated</p>
<p>Biosolids Application</p> <p>Agricultural land cropland (acres):</p> <p>% of state area in cropland:</p> <p>Number of farms with that cropland:</p> <p>% cropland to which biosolids were applied:</p> <p>Application rate if all state biosolids were applied to cropland (dry U.S. tons/ac.):</p> <p>% cropland needed if all state biosolids were applied at typical rate (~3 dt/ac):</p>	<p>5,894,676</p> <p>11%</p> <p>17,338</p> <p>0.04% based on NBDP estimate of 2,500 acres applied</p> <p>0.004</p> <p>0.1%</p>	<p>https://nuickstats.nass.usda.gov/results/0CBBAD84-6032-3776-A8B8-674D88825822</p> <p>calculated</p> <p>https://nuickstats.nass.usda.gov/results/F56563D1-C9CD-30FE-9774-2F31C0640EC</p> <p>calculated</p> <p>calculated</p> <p>calculated</p>
<p>Nutrient Sources - Comparison</p> <p>Nitrogen (N) in all this state's biosolids (metric tonnes, 2018):</p> <p>N in this state's animal manures (metric tonnes):</p> <p>N in this state's purchased fertilizer (metric tonnes, 2011):</p> <p>If all state's biosolids applied, what % of state's applied N would come from biosolids?</p> <p>Phosphorus (P) in this state's biosolids (metric tonnes, 2018):</p> <p>P in this state's animal manures (metric tonnes):</p>	<p>925</p> <p>115,094</p> <p>210,900</p> <p>0.3%</p> <p>385</p> <p>27,493</p>	<p>calculated assuming avg. 4.8% biosolids N</p> <p>https://www.epa.gov/nutrient-policy-data/estimated-animal-agriculture-nitrogen-and-phosphorus-manure</p> <p>https://www.epa.gov/nutrient-policy-data/commercial-fertilizer-purchase</p> <p>calculated</p> <p>calculated assuming avg. 2% biosolids P</p> <p>https://www.epa.gov/nutrient-policy-data/estimated-animal-agriculture-nitrogen-and-phosphorus-manure</p>

<p>P in this state's purchased fertilizer (metric tonnes, 2011): If all state's biosolids applied, what % of state's applied P would come from biosolids?</p>	<p>37,538 1%</p>	<p>https://www.epa.gov/nutrient-policy-data/commercial-fertilizer-purchase calculated</p>
<p>State Regulatory Involvement Biosolids oversight agency / division:</p> <p>Permitting.... of biosolids programs:</p> <p>...of land application sites: FTEs: state biosolids regulatory program: Biosolids program FTEs per million population: Enforcement: Inspections of biosolids facilities & field sites in 2018: Formal violations issued: Amount of state regulations beyond Part 503: Amount of state regulation of nutrient management & phosphorus: Accessibility of biosolids data to public: State encouragement of biosolids recycling to soils: Voluntary additional protections by land appliers known & reported by state coordinator:</p>	<p>Environment agency - water / wastewater program</p> <p>ID DEQ enforces compliance with 40 CFR Part 503; only added state regulation is to have plan. Sludge disposal or biosolids beneficial management plans are required & reviewed by ID DEQ.</p> <p>0.75 0.43 0 0 Low Low Low Moderate None</p>	<p>Environment agency - water / wastewater program</p> <p>survey response by state expert calculated survey response by state expert survey response by state expert</p> <p>rankings by survey team based on information provided in survey (options: High, Moderate, Low, None)</p>
<p>Trends New land application activity, 2018 - new permits & acreage, acres applied:</p> <p>acres applied in 2018: Local regulations & their impacts?:</p> <p>details... Legislative & state regulatory actions in 2018 & their impacts?:</p> <p>details... Biosolids beneficial use increasing... ..in 2018?: in 2020?:</p> <p>details...</p>	<p>Low 2,500 None however, we are not aware of any more restrictive ordinances Some ID DEQ has been taking delegation from EPA for wastewater since 2015; biosolids are delegated starting July 1, 2021. It's staying the same. Yes ID DEQ is receiving more calls for biosolids availability and related to how to manage biosolids.</p>	<p>rankings by survey team based on information provided in survey (options: High, Moderate, Low, None)... With quotes of survey responses by state expert(s)</p> <p>survey response by state expert survey response by state expert</p>
<p>Changes in Biosolids Use & Disposal</p> <p>Change* in solids reported used or disposed (in units used by state): Beneficial Use - percentage point increase or decrease (-): Landfill & surface disposal - % point increase or decrease (-): Other - percentage point increase or decrease (-): Class A - percentage point increase or decrease (-): Class B - percentage point increase or decrease (-): No class or not known - percentage point increase or decrease (-):</p>	<p>(1,958) -26% 10% 16% -26% 46% -19%</p>	<p>*Change may be due to population increase/decrease, change in treatment at a large WWTP, and/or different systems of data tracking and reporting.</p> <p>calculated comparing these 2018 data to 2004 data compiled by the same survey team (NEBRA, 2007)</p>