

DASHBOARD

Wyoming State Biosolids Statistics

Data Quality & Methods	2018	explanations & sources
<p>Quality & Confidence in this state's data: Data sources & methods: State biosolids included in 2018 EPA ECHO data</p>	<p>Moderate <i>NBDP relied on ECHO data & extrapolations.</i> 65% % in ECHO vs. the total presented here</p>	<p>ranking by survey team based on information provided in survey (options: High, Moderate, Low, None) https://echo.epa.gov/facilities/facility-search?mediaSelected=bioAnnual</p>
<p>Demographics & Wastewater State population: Total land area in state (acres): Population density (persons/square mile): Total number of WRRFs reported in state survey: total number of WRRFs permitted/reported elsewhere: number of WRRFs in EPA ECHO reports for 2018: Average population served per WRRF: Average wastewater flow statewide (MGD, NBDP): avg.wastewater flow statewide (MGD, Seiple): Number of WRRFs that treat >75% of state flow: % of population served by on-site (septic) systems: Biosolids used or disposed / person in 2018 (lbs):</p>	<p>577,737 62,139,520 6.0 96 96 8 4,213 52 52 13 30% 23</p>	<p>U.S. Census estimate for July 1, 2018 https://www.census.gov/newsroom/press-kits/2018/non-estimates-national-state.html calculated Seiple et al., 2020 Seiple et al., 2020 https://echo.epa.gov/facilities/facility-search?mediaSelected=bioAnnual calculated Seiple et al., 2020 https://doi.org/10.1016/j.jenvman.2020.110851 Seiple et al., 2020 https://doi.org/10.1016/j.jenvman.2020.110852 Seiple et al., 2020 https://doi.org/10.1016/j.jenvman.2020.110853 estimate reported in 2004 survey calculated</p>
<p>Biosolids Application Agricultural land cropland (acres): % of state area in cropland: Number of farms with that cropland: % cropland to which biosolids were applied: Application rate if all state biosolids were applied to cropland (dry U.S. tons/ac.): % cropland needed if all state biosolids were applied at typical rate (~3 dt/ac):</p>	<p>2,587,456 4% 7,130 no data 0.003 0.1%</p>	<p>https://quickstats.nass.usda.gov/results/0CPBAD84-6032-3776-AR8-624DB8825822 calculated https://quickstats.nass.usda.gov/results/P56563D1-C9CD-30EE-9774-2F91CC0640EC calculated calculated calculated</p>
<p>Nutrient Sources - Comparison Nitrogen (N) in all this state's biosolids (metric tonnes, 2018): N in this state's animal manures (metric tonnes): N in this state's purchased fertilizer (metric tonnes, 2011): If all state's biosolids applied, what % of state's applied N would come from biosolids? Phosphorus (P) in this state's biosolids (metric tonnes, 2018):</p>	<p>320 69,123 165,678 0.1% 133</p>	<p>calculated assuming avg. 4.8% biosolids N https://www.epa.gov/nutrient-policy-data/estimated-animal-agriculture-nitrogen-and-phosphorus-manure https://www.epa.gov/nutrient-policy-data/commercial-fertilizer-purchased calculated calculated assuming avg. 2% biosolids P</p>

<p>P in this state's animal manures (metric tonnes):</p> <p>P in this state's purchased fertilizer (metric tonnes, 2011):</p> <p>If all state's biosolids applied, what % of state's applied P would come from biosolids?</p>	<p>21,070</p> <p>12,139</p> <p>0.4%</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-purchased</p> <p>calculated</p>
<p>State Regulatory Involvement</p> <p>Biosolids oversight agency / division:</p> <p>Permitting.... of biosolids programs: ...of land application sites: FTEs: state biosolids regulatory program:</p> <p>Biosolids program FTEs per million population:</p> <p>Enforcement: Inspections of biosolids facilities & field sites in 2018:</p> <p>Formal violations issued:</p> <p>Amount of state regulations beyond Part 503:</p> <p>Amount of state regulation of nutrient management & phosphorus:</p> <p>Accessibility of biosolids data to public:</p> <p>State encouragement of biosolids recycling to soils:</p> <p>Voluntary additional protections by land appliers known & reported by state coordinator:</p>	<p>Environment agency - water / wastewater program</p> <p>There are no state regulations. WRRFs have biosolids management requirements stipulated in their NPDES permits, which are written by WY DEQ in accordance with EPA requirements.</p> <p>0.05</p> <p>0.09</p> <p>Wyoming does not regulate or enforce biosolids management; that is done by U.S. EPA Region 8.</p> <p>0</p> <p>None</p> <p>None (Part 503 requirements only)</p> <p>Low</p> <p>None</p> <p>None</p>	<p>same as reported for 2004</p> <p>calculated</p> <p>survey response by state expert</p> <p>NBDP estimate</p> <p>rankings by survey team based on information provided in survey (options: High, Moderate, Low, None)</p>
<p>Trends</p> <p>New land application activity, 2018 - new permits & acreage, acres applied: acres applied in 2018:</p> <p>Local regulations & their impacts?: details...</p> <p>Legislative & state regulatory actions in 2018 & their impacts?: details...</p> <p>Biosolids beneficial use increasing... ..in 2018?:in 2020?: details...</p>	<p>Low</p> <p>no data</p> <p>None</p> <p>no activity in 2018</p> <p>None</p> <p>It's staying the same.</p> <p>It's staying the same.</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</p> <p>survey response by state expert</p>
<p>Changes in Biosolids Use & Disposal, 2004 - 2018</p> <p>Change* in solids reported used or disposed (in units used by state):</p> <p>Beneficial Use - percentage point increase or decrease (-):</p> <p>Landfill & surface disposal - % point increase or decrease (-):</p> <p>Incineration - percentage point increase or decrease (-):</p> <p>Class A - percentage point increase or decrease (-):</p> <p>Class B - percentage point increase or decrease (-):</p> <p>No class or not known - percentage point increase or decrease (-):</p>	<p>(7,825) dry metric tons</p> <p>-27%</p> <p>27%</p> <p>0%</p> <p>58%</p> <p>19%</p> <p>-77%</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>