

DASHBOARD

Data Quality & Methods

Quality & Confidence in this state's data: Data sources & methods: State biosolids included in 2018 EPA ECHO data **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 (OH is delegated for Part 503; reporting to EPA is not required): 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): **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): **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 in this state's animal manures (metric tonnes):

P in this state's purchased fertilizer (metric tonnes, 2011):	42,888	https://www.epa.gov/nutrient-policy-data/commercial-fertilizer- purchased
If all state's biosolids applied, what % of state's applied P would come from biosolids?	6%	calculated
State Regulatory Involvement		
Biosolids oversight agency / division: Permitting of biosolids programs: 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:	Environment agency - wa specific NPDES type permits specific site permits for Class B land a 3 0.26 41 0 High High Low Moderate None	ater / wastewater program pp sites only survey response by state expert calculated survey response by state expert survey response by state expert rankings by survey team based on information provided in survey (options: High, Moderate, Low, None)
Trends New land application activity, 2018 - new permits & acreage, acres applied: acres applied in 2018: Local regulations & their impacts?: details Legislative & state regulatory actions in 2018 & their impacts?: details Biosolids beneficial use increasingin 2018?: in 2020?: details	High ^{32,570} None None It's staying the same. It's staying the same.	rankings by survey team based on information provided in survey (options: High, Moderate, Low, None) With quotes of survey responses by state expert(s) survey response by state expert survey response by state expert
Changes in Biosolids Use & Disposal 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 (-): Incineration - percentage point increase or decrease (-): Class A - percentage point increase or decrease (-):	(75,024) dry U.S. tons -8% 18% 7%	*Change may be due to population increase/decrease, change in treatment at a large WWTP, and/or different systems of data tracking and reporting. calculated comparing these 2018 data to 2004 data compiled by the same survey
Class A - percentage point increase or decrease (-): Class B - percentage point increase or decrease (-): No class or not known - percentage point increase or decrease (-):	-9% -4% 12%	team (NEBRA, 2007)