NATIONAL BIOSOLIDS DATA PROJECT

DASHBOARD

Idaho State Biosolids Statistics

Data Quality & Methods	2018	explanations & sources
Quality & Confidence in this state's data:	MODERATE	ranking by survey team based on information provided in survey (options: High, Moderate, Low, None)
Data sources & methods:	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	
State biosolids included in 2018 EPA ECHO data	89% % in ECHO vs. the total presented here	https://echo.epa.gov/facilities/facility- search?mediaSelected=bioAnnual
Demographics & Wastewater State population:	1,754,208	U. S. Census estimate for July 1, 2018
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:	52,891,520 21.2 215 178	https://www.census.gov/newsroom/oress-kits/2018/ooc- astimates-national-state.html calculated survey response by state expert Seiple et al., 2020; state experts, etc.
number of WRRFs in EPA ECHO reports for 2018: Average population served per WRRF:	6,527	https://echo.epa.gov/facilities/facility- search?mediaSelectd=bipAnnual Calculated
Average wastewater flow statewide (MGD, NBDP): avg.wastewater flow statewide (MGD, Seiple):	no data	survey response by state expert Seiple et al., 2020 https://doi.org/10.1016/j.jenvman.2020.110852
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):	19 20% NBDP estimate 24	Seiple et al., 2020 https://doi.org/10.1016/j.jenvman.2020.110853 no survey response by state expert calculated
Biosolids Application		
Agricultural land cropland (acres): % of state area in cropland:	5,894,676 11%	https://auickstats.nass.usda.gov/results/0CBBAD84-6032-3776- AFRB-624DB8825822 calculated
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):	17,338 0.04% based on NBDP estimate of 2,500 acres applied 0.004 0.1%	https://quickstats.nass.usda.gov/results/F56563D1-C9CD-30EF- 9274-2P3 CC0640EC calculated calculated calculated
Nutrient Sources - Comparison Nitrogen (N) in all this state's biosolids (metric tonnes, 2018):	925	calculated assuming avg. 4.8% biosolids N
N in this state's animal manures (metric tonnes):	115,094	https://www.epa.gov/nutrient-policy-data/estimated-animal- agriculture-nitrogen-and-phosphorus-manure
N in this state's purchased fertilizer (metric tonnes, 2011): If all state's biosolids applied, what % of state's applied N would	210,900	https://www.epa.gov/nutrient-policy-data/commercial- ferfilizer-purchased
come from biosolids? Phosphorus (P) in this state's biosolids (metric tonnes, 2018):	0.3% 385	calculated calculated assuming avg. 2% biosolids P
P in this state's animal manures (metric tonnes):	27,493	https://www.epa.gov/nutrient-policy-data/estimated-animal- agriculture-nitrogen-and-phosphorus-manure

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