NATIONAL BIOSOLIDS DATA PROJECT

DASHBOARD

Kansas State Biosolids Statistics

2018	explanations & sources
	ranking by survey team based on information provided in survey (options: High, Moderate, Low, None) upiled from U. S. EPA ECHO database & the NBDP survey, with additional
extrapola	tions for 7 WRRFs. NBDP consulted with KS-based WRRF & consultant experts for additional information & reviews.
65% % in ECF	IO vs. the total presented here https://echo.epa.gov/facilities/facility-search?mediaSelected=bioAnnual
2,911,505	U. S. Census estimate for July 1, 2018
52,325,760 35.6 52 (survey), 623 (CWNS) 623	https://www.census.gov/newscropm/press-kits/2018/pop- estimates-national-state.html calculated NBDP and CWNS data Seiple et al., 2020; state experts, etc.
2,804 306	https://echo.eao.aov/facilities/facility- search?mediaSelected=bioAnnual calculated Seiple et al., 2020 https://doi.org/10.1(
306	Seiple et al., 2020 https://doi.org/10.1016/j.jenvman.2020.110852
35 40% 26	Seiple et al., 2020 https://doi.org/10.1016/j.jenvman.2020.110853 2004 estimate calculated
29,125,505 56%	https://quirkstats.nass.usda.gov/results/0CRBADR4-6032-3776- ARR8-6-74DBR975822 Calculated
48,581 no da	https://quirkslats.nass.usda.gnv/regults/F56563D1-C9CD-20FF. 9274-2P91/CD640FC Calculated
0.001 0.043%	calculated calculated
· ·	calculated assuming avg. 4.8% biosolids N
· ·	agriculture-nitrogen-and-phosphorus-manure https://www.epa.gov/nutrient-policy-data/commercial-
601,499	<u>fertilizer-ourchased</u>
0.2%	calculated calculated assuming avg. 2% biosolids P
	Model Data com extrapola biosolids 65% % in ECH 2,911,505 52,325,760 35.6 52 (survey), 623 (CWNS) 623 39 2,804 306 306 35 40% 26 29,125,505 56% 48,581 no dat 0.001 0.043% 1,811 293,838 601,499

		https://www.epa.gov/nutrient-policy-data/estimated-animal-
P in this state's animal manures (metric tonnes):	84,863	agriculture-nitrogen-and-phosphorus-manure
P in this state's purchased fertilizer (metric tonnes, 2011):	78,874	https://www.eba.dov/httrient-dolicy-data/commercial- fertilizer-purchased
If all state's biosolids applied, what % of state's applied P would		
come from biosolids?	0.5%	calculated
State Regulatory Involvement		
Biosolids oversight agency / division:	Environment agency	- water / wastewater program
Permitting of biosolids programs:	thru WWTP's NPDES permit	[
of land application sites:	no state permitting; must follow 0.1	
FTEs: state biosolids regulatory program: Biosolids program FTEs per million population:	0.03	survey response by state expert calculated
Enforcement: Inspections of biosolids facilities & field sites in 2018:	no data	
Formal violations issued:	no data	survey response by state expert
	None	survey response by state expert
Amount of state regulations beyond Part 503:		
Amount of state regulation of nutrient management & phosphorus:	Low	rankings by survey team based on
Accessibility of biosolids data to public:	None	information provided in survey (options: High, Moderate, Low, None)
State encouragement of biosolids recycling to soils:	None	(0,000,000,000,000,000,000,000,000,000,
Voluntary additional protections by land appliers known & reported by state coordinator:	Low	
Trends		
New land application activity, 2018 - new permits & acreage, acres applied:	Low	rankings by survey team based on
acres applied in 2018:	no data	information provided in survey
Local regulations & their impacts?:	None	(options: High, Moderate, Low,
details	no activity in 2018	None) With quotes of survey responses by state expert(s)
Legislative & state regulatory actions in 2018 & their impacts?:	None	
Biosolids beneficial use increasingin 2018?:	It's staying the same	survey response by state expert
in 2020?:	It's staying the same	survey response by state expert
details		
Changes in Biosolids Use & Disposal, 2004 - 2018		
		*Change may be due to population
		increase/decrease, change in treatment at large WWTP, and/or different systems of
Change* in solids reported used or disposed (in units used by state):	8,748 dry metric tons	data tracking and reporting.
Beneficial Use - percentage point increase or decrease (-):	37%	
Landfill & surface disposal - % point increase or decrease (-):	-13%	
Incineration - percentage point increase or decrease (-):	-24%	calculated comparing these 2018 data
Class A - percentage point increase or decrease (-):	0%	to 2004 data compiled by the same survey team (NEBRA, 2007)
Class B - percentage point increase or decrease (-):	21%	,,,
No class or not known - percentage point increase or decrease (-):	-21%	