## NATIONAL BIOSOLIDS DATA PROJECT

## **DASHBOARD**

## **Louisiana State Biosolids Statistics**

Data Quality & Methods	2018	explanations & sources
Quality & Confidence in this state's data:	<b>Moderate</b> Data from U.S. EPA's ECHO database (3.	ranking by survey team based on information provided in survey (options: High, Moderate, Low, None) 2 WRRFs) & the LA Dept. of Envl. Qual.
Data sources & methods:	Electronic Document Management System	n & estimates, representing ~85% of total ordinator provided additional information.
State biosolids included in 2018 EPA ECHO data	66% % in ECHO vs. the total presented here	https://echo.epa.gov/facilities/facility- search?mediaSelected=bioAnnual
Demographics & Wastewater		
State population:	4,659,978	U.S. Census estimate for July 1, 2018
Total land area in state (acres):	27,650,560	https://www.census.gov/newsroom/press-kits/2018/pop- estimates-national-state.html
Population density (persons/square mile):	107.9	calculated
Total number of WRRFs reported in state survey:	49	survey response by state expert
total number of WRRFs permitted/reported elsewhere:	274	Seiple et al., 2020; state experts, etc.
number of WRRFs in EPA ECHO reports for 2018:	32	search?mediaSelected=bioAnnual
Average population served per WRRF:	13,606	calculated
Average wastewater flow statewide (MGD, NBDP):	683	Seiple et al., 2020 https://doi.org/10.1016/j.jenvman.2020.110852
avg.wastewater flow statewide (MGD, Seiple):	683	Seiple et al., 2020 https://doi.org/10.1016/j.jenvman.2020.110852
Number of WRRFs that treat >75% of state flow:	23	Seiple et al., 2020 https://doi.org/10.1016/j.jenvman.2020.110852
% of population served by on-site (septic) systems:	20%	NBDP default estimate
Biosolids used or disposed / person in 2018 (lbs):	18	calculated
Biosolids Application		
Agricultural land cropland (acres):	4,345,843	https://quickstats.nass.usda.gov/results/0CBBAD84-6032-3776- AF8B-624DB8825822
% of state area in cropland:	16%	calculated
Number of farms with that cropland:	16,009	https://quickstats.nass.usda.gov/results/F56563D1-C9CD-30EF- 9774-2P91CC0640EC
% cropland to which biosolids were applied:	no data	calculated
Application rate if all state biosolids were applied to cropland (dry U.S. tons/ac.):	0.01	calculated
% cropland needed if all state biosolids were applied at typical rate (~3 dt/ac):	0.3%	calculated
Nutrient Sources - Comparison		
Nitrogen (N) in all this state's biosolids (metric tonnes, 2018):	2,017	calculated assuming avg. 4.8% biosolids N
N in this state's animal manures (metric tonnes):	59,630	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	203,915	https://www.epa.gov/nutrient-policy-data/commercial- fertilizer-purchased
come from biosolids?	0.8%	calculated
Phosphorus (P) in this state's biosolids (metric tonnes, 2018):	840	calculated assuming avg. 2% biosolids P

P in this state's animal manures (metric tonnes):	18,259	https://www.epa.gov/nutrient-policy-data/estimated-animal- agriculture-nitrogen-and-phosphorus-manure
P in this state's purchased fertilizer (metric tonnes, 2011):	17,103	https://www.epa.gov/nutrient-policy-data/commercial- fertilizer-ourchased
If all state's biosolids applied, what % of state's applied P would come from biosolids?	2.3%	calculated
State Regulatory Involvement		
Biosolids oversight agency / division:	Environment agency -	water / wastewater program
Permitting of biosolids programs:	thru WWTP's LPDES permit (LA is delegated by U.S. EPA for NPDES permitting) Every facility with an LPDES permit sanitary outfall needs to obtain som	e type
of land application sites:	of disposal permit. More informatio	n is ement. survey response by state expert
FTEs: state biosolids regulatory program:	1	survey response by state expert
Biosolids program FTEs per million population:	0.21	calculated
Enforcement: Inspections of biosolids facilities & field sites in 2018:	Data are not tracked for newly perr acreage, inspections, or violations. no data	survey response by state expert
Formal violations issued: Amount of state regulations beyond Part 503:	Moderate	
Amount of state regulation of nutrient management & phosphorus:	Moderate	
Accessibility of biosolids data to public:	Low	rankings by survey team based on information provided in survey
State encouragement of biosolids recycling to soils:	Low	(options: High, Moderate, Low, None)
Voluntary additional protections by land appliers known & reported by state coordinator:	Low	
Trends	1	
New land application activity, 2018 - new permits & acreage, acres applied: acres applied in 2018:	<b>Low</b> no data	rankings by survey team based on
Local regulations & their impacts?:	None no activity in 2018	information provided in survey (options: High, Moderate, Low, None) With quotes of survey responses by
Legislative & state regulatory actions in 2018 & their impacts?:	None	state expert(s)
details	Have not been approached regarding this so unsure as to whether it would be approved.	we are
Biosolids beneficial use increasingin 2018?:	No	survey response by state expert
in 2020?:	Yes	survey response by state expert
details	Higher landfill costs are driving increased into beneficial use.	erest in
Changes in Biosolids Use & Disposal, 2004 - 2018		
		*Change may be due to population increase/decrease, change in treatment at
Change* in solids reported used or disposed (in units used by state):	(15,211) dry metric tons	large WWTP, and/or different systems of data tracking and reporting.
Beneficial Use - percentage point increase or decrease (-):	-8%	
Landfill & surface disposal - % point increase or decrease (-):	19%	
Incineration - percentage point increase or decrease (-):	-3%	calculated comparing these 2018 data
Other - % point decrease (-)	-8%	to 2004 data compiled by the same
Class A - percentage point increase or decrease (-):	-5%	survey team (NEBRA, 2007)
Class B - percentage point increase or decrease (-):	4%	
No class or not known - percentage point increase or decrease (-):	1%	