

Louisiana

Sheet 1 of 2 - Biosolids Infrastructure & Quantities

Infrastructure & Wastewater

	2004 Data	2018 Data	
Total Number of WWTPs:	73 (survey), 353 CWNS	49	
WWTP & Biosolids Infrastructure Totals			
Number of Separate Preparers (in- or out-of-state, receiving solids from your state):	0	0	-----
Total number of your state's WWTPs sending to those Separate Preparers:	0	0	-----
Number of operating sludge incinerators in your state (total):	2	1	-----
Fluidized bed:	1	1	-----
Multiple hearth:	1	0	-----
Number of Part 258 landfills in your state accepting sewage sludge:	data not requested for 2004	several	-----
Number of WWTPs in your state with industrial pre-treatment programs:	data not requested for 2004	all larger WRRFs	-----
Number of WWTPs in your state with <i>sludge</i> lagoons:	data not requested for 2004	several	-----
Wastewater Flow Totals			
Total statewide average daily wastewater flow (MGD):	data not requested for 2004	683	-----
Total statewide WWTP <i>design</i> capacity for wastewater flow (MGD):	data not requested for 2004	no data	-----
Total statewide average daily <i>dry weather</i> flow (MGD):	data not requested for 2004	no data	-----
Other Totals			
Number of documented odor & nuisance complaints received by state in 2018 related to biosolids transportation and use or disposal outside of the gates of the WWTP:	data not requested for 2004	no data	-----
Number of WWTPs involved in those complaints:	data not requested for 2004	no data	-----
Percent of population served by on-site systems (e.g. septic systems):	no data	20%	-----

Data presented here are from two sources: U.S. EPA's ECHO database (32 WRRFs) and the Louisiana Department of Environmental Quality's (LA DEQ) EDMS (Electronic Document Management System), a public online database with electronic records available, but no central data compilation. LA DEQ records - scans of annual biosolids reports - were accessed for 14 WRRFs that did not report to ECHO for 2018. LA DEQ records were also referenced for 3 WRRFs that had reported to ECHO for 2018, to check ECHO data. In those 3 cases, quantities of solids reported to LA DEQ differed from quantities reported in ECHO. NBDP opted to use the LA DEQ numbers, because they made more sense considering the average wastewater flow of each facility. NBDP estimated solids for an additional three facilities, with the help of municipal websites. Together, the 49 WRRFs represented here treat an estimated 85% of Louisiana's total wastewater flow. Of those 49 facilities, five reported not managing any solids in 2018. • Total state wastewater flow is from Seiple et al. 2020. • The one SSI is at New Orleans' East Bank STP, which also processes solids for the city's West Bank STP. • The % of population served by on-site systems is an NBDP estimate based on data from the LA Department of Health: as of 2020, there were 288,724 onsite systems permitted, which is 16% of the households then in LA; NBDP rounded up to its default on-site system estimate of 20%, assuming additional overlooked and more recent on-site systems.

Biosolids Use and Disposal

UNITS:	Dry metric tons	Dry metric tons	
BIOSOLIDS USED OR DISPOSED, 2018 (adjusted total): 42,000			
Summary			
	Number of Entities (WWTPs & Sep. Preparers) Going To...	Quantity of Biosolids	Number of Entities (WWTPs & Sep. Preparers) Going To... Quantity of Biosolids
Beneficial Use (applied to soils, not including ADC)	20	9,818	10 3,786
Disposal & Alternative Dispositions	34	42,936	34 38,238
Other	19	4,481	
TOTAL	73	57,235	44 42,024
Beneficial Use			
	Number of Entities (WWTPs & Sep. Preparers) Going To...	Quantity of Biosolids	Number of Entities (WWTPs & Sep. Preparers) Going To... Quantity of Biosolids
Agricultural (EQ, Class A, & Class B)	16	4,909	10 3,786
Forestland (EQ, Class A, & Class B)	0	0	0 0
Reclamation (EQ, Class A, & Class B)	0	0	0 0
Class A EQ Distribution (bagged or bulk, public distribution, or unsure where it went)	4	4,909	0 0
Beneficial Use Subtotal	20	9,818	10 3,786
Long-term storage	19	4,481	
Number of acres to which biosolids were applied:	2000-5000		no data
Disposal & Alternative Dispositions			
	Number of Entities (WWTPs & Sep. Preparers) Going To...	Quantity of Biosolids	Number of Entities (WWTPs & Sep. Preparers) Going To... Quantity of Biosolids
Landfill (total)	31	29,577	31 29,619

NOTE: Quantity of sewage sludge or biosolids used or disposed means the quantity that goes out the gate of the WRRFs. Quantities are in the units (the form of measurement) indicated above.

NBDP assumed that all application of biosolids was on agricultural land.

Burial	data not requested for 2004	data not requested for 2004	31	29,619
Alternative daily (ADC), intermediate, or final cover	data not requested for 2004	data not requested for 2004		
Surface Disposal	1	59	1	29
Incineration	2	13,300	2	8,590
Cement kiln or industrial furnace	data not requested for 2004	data not requested for 2004		
Deep well injection	data not requested for 2004	data not requested for 2004		
Gasification	data not requested for 2004	data not requested for 2004		
Pyrolysis	data not requested for 2004	data not requested for 2004		
Disposal & Alternative Dispositions Subtotal	34	42,936	34	38,238
TOTAL	73	57,235	44	42,024

The one incinerator is at New Orleans' East Bank STP, which also processes solids for another city facility.

Biosolids Quality Summary

	Number of Entities (WWTPs & Sep. Preparers) Producing...	Quantity of Biosolids	Number of Entities (WWTPs & Sep. Preparers) Producing...	Quantity of Biosolids	NOTE: For "number of entities," the total may not match because some entities go to more than one use or disposal.
Class A EQ	4	4,909	3	1,692	
Other Class A	0	0	0	0	
Class B	12	4,909	17	5,296	
Other (no data, etc.)	57	47,418	29	35,037	
TOTAL	73	57,236	49	42,024	

Biosolids Treatment Practices - No Data Available