

# STATE BIOSOLIDS SURVEY

2018 data conducted 2020-2021 biosolidsdata.org

## Alabama

#### Infrastructure & Wastewater

Total Number of WWTPs:	2004 Data 52 (survey), 278 CWNS	2018 Data 69		
WWTP & Biosolic				
Number of Separate Preparers (in- or out-of-state, receiving solids from your state):	probably 0	0		1
Total number of your state's WWTPs sending to those Separate Preparers:	0	0		
Number of operating sludge incinerators in your state (total):	1	1 WTE		
Fluidized bed:	no data	0		
Multiple hearth:	no data	0		
Number of Part 258 landfills in your state accepting sewage sludge:	data not requested for 2004	no data		There are no separate preparers treating Alabama biosolids, but there are several land application contractors who manage biosolids
Number of WWTPs in your state with industrial pre-treatment programs:	data not requested for 2004	all of the larger WRRFs		for AL water resource recovery facilities (WRRFs), including AAA Septic, Allied, Denali Water, GreensSouth, Merrell Bros., Recyc
Number of WWTPs in your state with sludge lagoons:	data not requested for 2004	some		Systems, & Synagro. When these contractors dredge solids from lagoons, they may treat them - and that would define them as spearate preparers. • The 1 incinerator is the Huntsville waste-to-energy facility (WTE). • Estimate of % of population served by on-
Wastewater Flow Totals				site septic systems is based on reporting here: https://www.montgomeryadvertiser.com/story/news/local/alabama/2018/07/06/
Total statewide average daily wastewater flow (MGD):	data not requested for 2004	339		first-series-ways-communities-addressing-rise-poverty-related-tropical-diseases-poor-sewage/754311002/
Total statewide WWTP design capacity for wastewater flow (MGD):	data not requested for 2004	no data		
Total statewide average daily dry weather flow (MGD):	data not requested for 2004	no data		
Oth	er 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):	30%	43%		

**Biosolids Use and Disposal** 

	UNITS:	Dry metric tons	Dry metric tons			
	BIOSOLIDS USED	OR DISPOSED, 20	)18 (adjusted total):	36,800		
Summary						
	Number of Entities (WWTPs & Sep. Preparers) Going To	Quantity of Biosolids	Number of Entities (WWTPs & Sep. Preparers) Going To	Quantity of Biosolids	<b>NOTE:</b> Quantity of sewage sludge or biosolids used or disposed means the quantity that goes out the gate of the WWTPs. Quantities are in the units (the form of measurement) indicated above.	
Beneficial Use (applied to soils, not including ADC)	39	42,402	49	25,998		
Disposal & Alternative Dispositions	12	18,784	19	10,793	Data are from ~60 water resource recovery facilities' reports in the U.S. EPA ECHO database, supplemented by a report to the NBDP from Jefferson County. Additional extrapolation was completed by NBDP for Huntsville, resulting in 82% of the state's wastewater	
Other	1	57	1	94	flow being represented.	
TOTAL	52	61.243	69	36.790		
	Number of Entities (WWTPs &		Benefi Number of Entities (WWTPs &	cial Use	T	
	Sep. Preparers) Going To	Quantity of Biosolids	Sep. Preparers) Going To	Quantity of Biosolids		
Agricultural (EQ, Class A, & Class B)	30	29,372	39	16,837	1	
Forestland (EQ, Class A, & Class B)	0	0	0	0	1	
Reclamation (EQ, Class A, & Class B)	9	13,030	8	7,937	1	
Class A EQ Distribution (bagged or bulk, public distribution, or unsure where it went)	0	0	2	1,223	Jefferson County - the Birmingham area - has 9 WRRFs, 8 of which sent biosolids to the Flat Top Mine for use in land reclamation. That was an anomaly in 2018; in most years, some of their solids go to agricultural land application supporting growing hay for	
Beneficial Use Subtotal	39	42,402	49	25,998	construction & landscaping. • The 2 EQ distribution programs are the heat-dried products from Albertville and Foley.	
Long-term storage	1	57	1	94		
Number of acres to which biosolids were applied:		no data		no data	1	
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)	11	12,784	12	6,727		

Burial	data not requested for 2004	data not requested for 2004	11	6,242
Alternative daily (ADC), intermediate, or final cover	data not requested for 2004	data not requested for 2004	1	485
Surface Disposal	0	0	1	92
Incineration	1	6,000	6	3,974
Cement kiln or industrial furnace	data not requested for 2004	data not requested for 2004	0	0
Deep well injection	data not requested for 2004	data not requested for 2004	0	0
Gasification	data not requested for 2004	data not requested for 2004	0	0
Pyrolysis	data not requested for 2004	data not requested for 2004	0	0
Disposal & Alternative Dispositions Subtotal	12	18,784	19	10,793
TOTAL	52	61,243	69	36,790

The one incineration facility is a waste-to-energy (WTE) facility owned by Huntsville and operated by Covanta Energy. It burns all of the wastewater solids from the 6 Huntsville WRRFs, comixed with area municipal solid waste, generating renewable electricity.

### **Biosolids Quality Summary**

	Number of Entities (WWTPs & Sep. Preparers) Producing	Quantity of Biosolids	Number of Entities (WWTPs & Sep. Preparers) Producing	Quantity of Biosolids	NO <sup>*</sup> disp
Class A EQ	1	3,550	4	3,032	
Other Class A	0	0	3	1,132	
Class B	23	30,266	48	22,832	
Other (no data, etc.)	28	27,427	8	9,795	
TOTAL	52	61,243	63	36,790	

NOTE: For "number of entities," the total may not match because some entities go to more than one use or disposal.

#### **Biosolids Treatment Practices**

		unent Fractice		
Estimated Number of WWTPs or Separate Preparers Using	Estimated Quantity of Biosolids Produced Using	Estimated Number of WWTPs or Separate Preparers Using	Estimated Quantity of Biosolids Produced Using	
Stab	ilization			
no data	no data	30+	9.578	
data not requested for 2004	data not requested for 2004	0	0	1
data not requested for 2004	data not requested for 2004	30+	9,578	1
no data	no data	11+	0	1
data not requested for 2004	data not requested for 2004	0	0	1
data not requested for 2004	data not requested for 2004	11+		1
data not requested for 2004	data not requested for 2004	maybe a few	N/A	1
data not requested for 2004	data not requested for 2004	a few	N/A	1
no data	no data	4	4,878	
data not requested for 2004	data not requested for 2004	4	4,878	1
data not requested for 2004	data not requested for 2004	might be a few small WRRFs	might be a few small WRRFs	1
no data	no data	0	0	1
no data	no data	2	1,223	1
data not requested for 2004	data not requested for 2004	0	0	1
data not requested for 2004	data not requested for 2004	0	0	1
data not requested for 2004	data not requested for 2004	0	N/A	1
no data	no data	may be a few	N/A	1
data not requested for 2004	data not requested for 2004	no data	N/A	1
no data	no data	no data	no data	As in many states, aerobic digestion is common, mostly among smaller WRRFs. • The 11 or more AD WRRFs include Albertville, Boaz, Decatur, Mobile, Montgomery, Selma, and the Valley Creek WRF in Jefferson County. • The Class A alkaline stabilization
Dew	atering			systems are at Fairhope, Florence, and Sheffield. • Heat drying is used for Class A biosolids production at Albertville and Foley.
· ·				1
no data	no data	no data	no data	1
no data	no data	no data	no data	1
no data	no data	no data	no data	1
no data	no data	no data	no data	1
no data	no data	no data	no data	
data not requested for 2004	data not requested for 2004	no data	no data	1
no data	no data	no data	N/A	1
Thic	kening			
data not requested for 2004	data not requested for 2004	no data	no data	
data not requested for 2004	data not requested for 2004	no data	no data	1
data not requested for 2004	data not requested for 2004	no data	no data	1
data not requested for 2004	data not requested for 2004	no data	no data	1
data not requested for 2004	data not requested for 2004	no data	no data	1
C	ther			
data not requested for 2004	data not requested for 2004	0	0	
	or Separate Preparers Using  Stab  no data data not requested for 2004 no data data not requested for 2004 data not requested for 2004 no data data not requested for 2004 no data no data data not requested for 2004	Stabilization  Stabilization  no data  data not requested for 2004 no data data not requested for 2004 dat	Stabilization  Stabilization  no data  atata not requested for 2004 data not requested for 2004 no data no dat	Produced Using   Separate Preparers Using   Produced Using