

STATE BIOSOLIDS SURVEY

2018 data conducted 2020-2021 biosolidsdata.org

Utah

Infrastructure & Wastewater

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Total Number of WWTPs:	2004 Data 49 (survey), 106 CWNS	2018 Data 39		
Total Number of WWTPS:	49 (survey), 106 CWNS	39		
WWTP & Biosolids Infrastructure Totals				
Number of Separate Preparers (in- or out-of-state, receiving solids from your state):	0	1		
Total number of your state's WWTPs sending to those Separate Preparers:	0	~10		
Number of operating sludge incinerators in your state (total):	0	0		
Fluidized bed:	0	0		
Multiple hearth:	0	0		
Number of Part 258 landfills in your state accepting sewage sludge:	data not requested for 2004	17		
Number of WWTPs in your state with industrial pre-treatment programs:	data not requested for 2004	all the larger WRRFs		
Number of WWTPs in your state with sludge lagoons:	data not requested for 2004	many smaller WRRFs		Data presented here are from the Utah Department of Environmental Quality (UT DEQ), with some adjustments made by NBDP, as
Wastewa	ter Flow Totals	explained below.		
Total statewide average daily wastewater flow (MGD):	data not requested for 2004	no data		
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	"too numerous to count"		
Number of WWTPs involved in those complaints:	data not requested for 2004	6		
Percent of population served by on-site systems (e.g. septic systems):	no data	no data		

Biosolids Use and Disposal

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Alternative daily (ADC), intermediate, or final cover	data not requested for 2004	data not requested for 2004	0	0
Surface Disposal	0	0	1	456
Incineration	0	0	0	0
Cement kiln or industrial furnace	data not requested for 2004	data not requested for 2004	0	0 8
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	9	1,859	21	19,804
TOTAL	49	52,940	43	50,601

In the disposal table, left, NBDP adjusted numbers based on the raw UT DEQ data for 2018. In cell D48, the 20 was listed by UT DEQ as 23. Likewise, the landfilled tonnage, shown here as 13,381 dmt, was 17,773 dmt. The surface disposal facility is likely Ashley Valley, and NBDP subtracted its tonnage from the total disposed (cell E48).

Biosolids Quality Summary

	Number of Entities (WWTPs & Sep. Preparers) Producing	Quantity of Biosolids	Number of Entities (WWTPs & Sep. Preparers) Producing		NOTE: For "number of entities," the total may not match because some entities go to more than one use or disposal.
Class A EQ	16	19,091	17	28,879	These numbers are approximate. In Utah especially, there is much Class A EQ and Class B biosolids disposed of in landfills, and many WRRFs send some to landfill and some to agriculture or general distribution. It varies based on markets and needs at the time
Other Class A	0	0	0		These estimates are based on assuming that, if UT DEQ identified a facility as producing Class A EQ and/or Class B products, all of
Class B	5	25,436	20		their production should be counted as Class A EQ and/or Class B, no matter where it was used or disposed of. • As noted above, here in this quality summary area, NBDP tweaked the numbers based on review of the raw UT DEQ data: 17 was shown by UT DEC
Other (no data, etc.)	2	8,413	21		as 7; 28,879 was 18,971; 20 was 8; 13,698 was 8,023; 21 was 23; 8,024 was 17,773. Some producers of Class A EQ biosolids sen them to landfills, which is why there are 17 Class A EQ producers shown here, compared to just 11 whose solids went to beneficial
TOTAL	23	52,940	58		use in 2018 (above).

Biosolids Treatment Practices

			Diosolius Trea	alment Practice	
	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	
Stabilization					
Aerobic Digestion (total)	0	0			
Class A (ATAD/Other)	data not requested for 2004	data not requested for 2004			
Class B	data not requested for 2004	data not requested for 2004			
Anaerobic digestion (AD) (total)	14	17,200			
Class A (e.g. thermophilic)	data not requested for 2004	data not requested for 2004			
Class B (mesophilic)	data not requested for 2004	data not requested for 2004			
WWTPs co-digesting (FOG, food, glycol, etc.)	data not requested for 2004	data not requested for 2004		N/A	
Biogas used (heating, electicity, fuel, etc.;scf/year)	data not requested for 2004	data not requested for 2004		N/A	
Lime/Alkaline (total)	1	579	0	0	
Class A lime/alkaline	data not requested for 2004	data not requested for 2004	0	0	
Class B lime/alkaline	data not requested for 2004	data not requested for 2004	0	0	
Composting	18	24,385			
Thermal (e.g. heat drying, not incineration/gasificatn/pyrol)	0	0	1		
Gasification	data not requested for 2004	data not requested for 2004	0		
Pyrolysis	data not requested for 2004	data not requested for 2004	0		
Hydrolysis (thermal, chemical, etc.)	data not requested for 2004	data not requested for 2004	0	N/A	
Long-term (lagoons, reed beds, etc.)	14	6,554		N/A	
Oxidation ditch / extended aeration	data not requested for 2004	data not requested for 2004		N/A	
Other stabilization technology	0	0			Misiral data and data
	Dew	atering			Minimal data provided or available. • Central Valley compost (Oquirrh Mountain Compost) sells in 1.5 cu. ft. bags for \$5 e
Belt Filter Press	13	no data			
Plate & Frame Press	0	no data	0		
Screw Press	3	no data			
Centrifuge	3	no data			
Vaccuum Filter	1	no data			
Drying beds (open-air)	7	no data			
Solar drying (e.g. in greenhouse)	data not requested for 2004	data not requested for 2004	1		
Other dewatering technology	0	no data			
Thickening					
Gravity thickener	data not requested for 2004	data not requested for 2004			
Gravity belt thickener (GBT)	data not requested for 2004	data not requested for 2004			
Centrifuge	data not requested for 2004	data not requested for 2004			
Dissolved air flotation (DAF)	data not requested for 2004	data not requested for 2004			
Other thickening technology	data not requested for 2004	data not requested for 2004			
	Other				
Biosolids sold in bags (explain at right what size bags)	data not requested for 2004	data not requested for 2004	1		