

STATE BIOSOLIDS SURVEY

Nevada

	2004 Data	2018 Data		
Total Number of WWTPs:	11 (survey), 57 CWNS	14 (NBDP), 52 (CWNS)		
WWTP & Biosolic	s Infrastructure Totals			
Number of Separate Preparers (in- or out-of-state, receiving solids from your state):	1	1		
Total number of your state's WWTPs sending to those Separate Preparers:	2	3		
Number of operating sludge incinerators in your state (total):	C	0		
Fluidized bed:	C	0		
Multiple hearth:	C	0		The data here are mainly from 14 WRRFs in Nevada for which EPA Region 9 received biosolids reports for 2018. Those 14 WRRFs
Number of Part 258 landfills in your state accepting sewage sludge:	data not requested for 2004	several		represent approximately 85% of the state's total wastewater flow. They generated 64,600 dry metric tons of biosolids in 2018.
Number of WWTPs in your state with industrial pre-treatment programs:	data not requested for 2004	several, including Clark County		Additional solids were generated by other small WRRFs treating 15% of Nevada's wastewater flow; those solids were likely stored
Number of WWTPs in your state with <i>sludge</i> lagoons:	data not requested for 2004	<u>≥</u> 1		lagoons or went to other, larger WRRFs, meaning that they did not significantly increase the tonnage of solids used or disposed in 2018. They are not included in the data presented here. • The one separate preparer is a composter: Bently Ranch, in Minden.
Wastewa	er Flow Totals			They treat biosolids from Douglas County Lake Tahoe Sewer Authority (which serves communities in NV & CA), Minden-
Total statewide average daily wastewater flow (MGD):	data not requested for 2004	no data		Gardenerville Sanitation District, and Incline Village WRF. • The one identified sludge lagoon is in Boulder City; there are several
Total statewide WWTP design capacity for wastewater flow (MGD):	data not requested for 2004	no data		more in rural communities around the state.
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):	5%	no data		

Biosolids Use and Disposal

	UNITS:	Dry metric tons	Dry metric tons							
BIOSOLIDS USED OR DISPOSED, 2018 (adjusted total): 64,600										
Summary										
	Number of Entities (WWTPs & Sep. Preparers) Going To	Quantity of Biosolids	Number of Entities (WWTPs & Sep. Preparers) Going To	-	NOTE: Quantity of sewage sludge or biosolids used or disposed means the quantity that goes out the gate of the WWTPs. Use the units (the form of measurement) you chose above.					
Beneficial Use (applied to soils, not including ADC)	4	10,552	4	1,776						
Disposal & Alternative Dispositions	7	45,926	8	62,766]					
Other	0	0	1	100]					
TOTAL	11	56.478	13	64.642						
				cial 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)	2	9,614	4	1,776						
Forestland (EQ, Class A, & Class B)	0	0								
Reclamation (EQ, Class A, & Class B)	0	0								
Class A EQ Distribution (bagged or bulk, public distribution,					These four entities include Bently Ranch and the three WRRFs that send their solids there for treatment. Bently Ranch has 2,700+					
or unsure where it went)	2	938			acres of crop land and range land, some of which receive biosolids compose each year.					
Beneficial Use Subtotal	4	10,552	4	1,776						
Long-term storage	0	0	1	100	4					
					4					
Number of acres to which biosolids were applied:		no data	no data							
			Disposal & Altern	ative 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)	7	45,926	8	62,766
Burial	data not requested for 2004	data not requested for 2004	5	22,006
Alternative daily (ADC), intermediate, or final cover	data not requested for 2004	data not requested for 2004	3	40,760
Surface Disposal	0	0	0	0
Incineration	0	0	0	0
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	7	45,926	8	62,766
TOTAL	11	56,478	13	64,642

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	2	938	1	1,776	
Other Class A	0	0			
Class B	2	25,344	2		The one Class A EQ producer is Bently Ranch (compost). Two facilities reported Class B biosolids that went to landfill burial. • All other biosolids went to landfill; their quality was not tracked.
Other (no data, etc.)	7	30,196	11	59,176	uner biosonius went to randim, men quanty was not tracked.
TOTAL	11	56,478	14	64,642	

Biosolids Treatment Practices

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Clicks (ne. nemochilic) disk not requested for 2004 disk not requested for 2004 number of the probability of the proprobability of the probability of the proprobabilit	Anaerobic digestion (AD) (total)	2	> 30%	1		
With to digesting (FOG. bod. give). etc.) data or diquastite 2004 NA Bioga used heading, ledicity, luel, ice, acdivani data or diquastite 2004 NA Class A limestaliante data or diquastite 2004 NA Class A limestaliante data or diquastite 2004 data or diquastite 2004 Class A limestaliante data or diquastite 2004 data or diquastite 2004 Class A limestaliante data or diquastite 2004 data or diquastite 2004 Class A limestaliante data or diquastite 2004 data or diquastite 2004 Gatification data or diquastite 2004 data or diquastite 2004 data or diquastite 2004 Myrdrysis data or diquastite 2004 NA data or diquastite 2004 NA Myrdrysis data or diquastite 2004 NA maximum or data or diquastite 2004 NA Class A limetical, etc.) data or diquastite 2004 NA maximum or data or diquastite 2004 NA Class A limetical, etc.) data or diquastite 2004 NA NA Class A limetical, etc.) data or diquastite 2004 NA NA Class A limetical, etc.) data or diquastite	Class A (e.g. thermophilic)	data not requested for 2004	data not requested for 2004	0	0	
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Class A line alta intergenetion to 2004 data ont regenetion to 2004 one of the add o	Biogas used (heating, electicity, fuel, etc.;scf/year)	data not requested for 2004	data not requested for 2004		N/A	
Class Bimonialization data not requested for 2004 MA Updrokylis (Hormal, chemical, etc.) data not requested for 2004 data not requested for 2004 NA Object stabilization technology 0 NA NA Object stabilization technology 0 NA NA Object stabilization technology 0 NA NA Vaccuum Filter 2 <1	Lime/Alkaline (total)	0	0	1	34,143	
Compositing 11 <1	Class A lime/alkaline	data not requested for 2004	data not requested for 2004			
Thermal (s g, heat drying, not incineration/gasifican/pyrol) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Class B lime/alkaline	data not requested for 2004	data not requested for 2004			
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hydrogysis (thermal, chemical, etc.) data not requested for 2004 N/A Long-term (tisgoons, reed beds, etc.) 20 <1	Gasification	data not requested for 2004	data not requested for 2004			
Long-term (tagoons, reed beds, etc.) 20 <1	Pyrolysis	data not requested for 2004	data not requested for 2004			
Didation ditch / extended seration data not requested for 2004 data not requested for 2004 N/A The City of Las Vegas has an aerobic digesters. Notably, Clark County Flamingo WRRF, the largest WRRF in the state, only minimally teats its solids with lime, not reaching Class B standards, and then the solids are landfilled. In 2018, it landfilled 34 dry metric tons. Beit Filter Press 2 <1 <1 CerrwPress 0 0 0 CerrwPress 0 0 0 0 Drying beds (open-air) 20 <1 <1 <1 Other everying lecking data not requested for 2004 data not requested for 2004 <thd< td=""><td>Hydrolysis (thermal, chemical, etc.)</td><td>data not requested for 2004</td><td>data not requested for 2004</td><td></td><td>N/A</td><td></td></thd<>	Hydrolysis (thermal, chemical, etc.)	data not requested for 2004	data not requested for 2004		N/A	
Other stabilization technology O The City of Las Vegas has an aerobic digesters. Notably, Clark County Flamingo WRRF, the largest WRRF in the state, only miningity treats its solids with line, not reaching Class B standards, and then the solids are landfilled. In 2018, it landfilled 34 dry metric tons. Belt Filter Press O O Belt Filter Press 0 0 Screw Press 1 <1	Long-term (lagoons, reed beds, etc.)	20	<1		N/A	
Dewatering minimally treats its solids with line, not reaching Class B standards, and then the solids are landfilled. In 2018, it landfilled 34 dry metric tons. Beit Filter Press 2 <1 minimally treats its solids with line, not reaching Class B standards, and then the solids are landfilled. In 2018, it landfilled 34 dry metric tons. Beit Filter Press 2 <1 <1 Centrifuge 2 >30% Origo Bds (open-sir) 20 <1 Solar drying (e.g. in greenhouse) data not requested for 2004 data not requested for 2004 data not requested for 2004 Gravity thickener data not requested for 2004 Other thickening technology data not requested for 2004 Other thickening technology data not requested for 2004 data not requested	Oxidation ditch / extended aeration	data not requested for 2004	data not requested for 2004		N/A	
Dewatering dry metric tons. Bett Filter Press 2 <1 Date & Frame Press 0 0 Screw Press 1 <1 Centrifuge 2 >30% Dyrug beds (open-air) 20 <1 Vacuum Filter 0 0 Solar drying (e.g. in greenhouse) data not requested for 2004 data not requested for 2004 Other dewatering technology 0 0 Gravity thickener data not requested for 2004 data not requested for 2004 Centrifuge data not requested for 2004 data not requested for 2004 Desolved air flotation (DAF) data not requested for 2004 data not requested for 2004 Other Centrifuge data not requested for 2004 data not requested for 2004	Other stabilization technology	0	0			
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Screw Press 1 <1	Belt Filter Press	2	<1			
Centrifuge 2 >30% Vaccum Filter 0 0 Drying beds (open-air) 20 <1	Plate & Frame Press	0	0			
Vacuum Filter 0 0 Drying beds (open-air) 20 <1	Screw Press	1	<1			
Drying beds (open-air) 20 <1	Centrifuge	2	> 30%			
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Other						1
				-		
	Biosolids sold in bags (explain at right what size bags)	data not requested for 2004	data not requested for 2004			

State Pollutant (trace metal, etc.) Concentration Limits in Biosolids Applied to Land, 2018

Enter numbers only where state limits differed in 2018 from U.S. EPA limits.

	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Lead (Pb)	Mercury (Hg)	Molybdenum (Mo)	Nickel (Ni)	Selenium (Se)	Zinc (Zn)
EPA Table 1 (mg/kg)	75	85		4300	840	57	75	420	100	7500
EPA Table 3 (mg/kg) & CPLR (kg/ha)	41	39		1500	300	17		420	100	2800
State ceiling limit (higher limit) (mg/kg)										
State high quality (lower number) limit (mg/kg)										
State CPLR (kg/ha)										
State APLR (kg/ha/365days)										

TESTING

For each of the following constituents, indicate if testing is required by your state, as of 2018.	Is testing required for <i>all</i> sewage sludge or biosolids?	Or is testing required only for biosolids being beneficially used as fertilizers and soil amendments?			If frequency depends on wastewater flow or	
			In accordance with Part 503 requirements	In accordance with other frequency required by state (if applicable, please specify)	amount of biosolids used or disposed of, please explain:	
Part 503 metals (As, Cu, Hg, etc.)	no	yes	yes			
Other metals (boron, silver)	no	no	not applicable (N/A)			
Dioxins/furans	no	no	not applicable (N/A)			Nevada has no state biosolids beneficial use regulations. Biosolids use or disposal is specified in
PCBs	no	yes	yes			wastewater permits overseen by the Bureau of Water Pollution Control in the Nevada Department of
Priority pollutants (https://www.epa.gov/sites/production/files/2015- 09/documents/priority-pollutant-list-epa.pdf))	no	no	not applicable (N/A)			Environmental Protection (NDEP). U.S. EPA oversees beneficial use under the 40 CFR Part 503 regulations. NDEP has a solids waste program that oversees landfill disposal. Most landfilling requires TCLP and paint filter tests for disposal of wastewater solids.
Other organic compounds (e.g. PDBEs, pharmaceutical)	no	no	not applicable (N/A)			
Radioactive isotopes (alpha, beta, Ra 226, etc.)	no	no	not applicable (N/A)			
Nutrients (NPK)	no	yes	yes			
Pathogen reduction (Class A or B)	no	yes	yes			
Vector attraction reduction (VAR)	no	yes	yes			
PFAS (as of 2018)	no	no	not applicable (N/A)			
Microplastics (as of 2018)	no	no	not applicable (N/A)			
TCLP (toxicity characteristic leaching procedure)	no	no	not applicable (N/A)			
Paint Filter Liquids Test	no	no	not applicable (N/A)			

REPORTING

For each of the following, indicate what WWTPs and/or biosolids preparers must report to the state:	Is reporting to the state	Frequency of reporting (indicate how often testing must be done for each parameter):		How are these data	Are data compiled by				
	required for these parameters?	In accordance with Part 503 requirements	In accordance with other frequency required (if applicable, please specify)	How are these data stored by the state?	the state in reports or summaries? Is so, please attach.				
The amounts of biosolids/ sewage sludge used or disposed	no	not applicable (N/A)		not applicable (N/A)	no				
Part 503 metals (As, Cu, Hg, etc.)	no	not applicable (N/A)		not applicable (N/A)	no				
Other metals (boron, silver)	no	not applicable (N/A)		not applicable (N/A)	no				
Dioxins/furans	no	not applicable (N/A)		not applicable (N/A)	no				
PCBs	no	not applicable (N/A)		not applicable (N/A)	no				
Priority pollutants (https://www.epa.gov/sites/production/files/2015- 09/documents/priority-pollutant-list-epa.pdf)	no	not applicable (N/A)		not applicable (N/A)	no	WRRFs and biosolids programs are not required to report to the state. Those meeting certain criteria under the EPA 40 CFR Part 503 regulations submit annual reports electronically each February; those radata are available on the EPA ECHO database website.			
Other organic compounds (e.g. PDBEs, pharmaceutical)	no	not applicable (N/A)		not applicable (N/A)	no	data are available on the EFA ECHO database website.			
Radioactive isotopes (alpha, beta, Ra 226, etc.)	no	not applicable (N/A)		not applicable (N/A)	no				
Nutrients (NPK)	no	not applicable (N/A)		not applicable (N/A)	no				
Cumulative Pollutant Loading Rates (CPLR)	no	not applicable (N/A)		not applicable (N/A)	no				
How biosolids achieve Class A or Class B	no	not applicable (N/A)		not applicable (N/A)	no				
How biosolids achieve vector attraction reduction (VAR)	no	not applicable (N/A)		not applicable (N/A)	no				
Solids stabilization process(es) used	no	not applicable (N/A)		not applicable (N/A)	no				
Other biosolids treatments	no	not applicable (N/A)		not applicable (N/A)	no				
End use or disposal practice	no	not applicable (N/A)		not applicable (N/A)	no				
PFAS (as of 2018)	no	not applicable (N/A)		not applicable (N/A)	no				
Microplastics (as of 2018)	no	not applicable (N/A)		not applicable (N/A)	no				
TCLP (toxicity characteristic leaching procedure)	no	not applicable (N/A)		not applicable (N/A)	no				
Paint Filter Liquids Test	no	not applicable (N/A)		not applicable (N/A)	no				