

Jamestown Wastewater Treatment Plant

BioSolids Land Applied

2021 Monthly Totals

Month	Total Loads	Gallons	Average % Solids	Total Metric Tons-Actual	YTD Gallons	YTD Tons
January						
February						
March						
April	55	104,850	2.29	9.09	104,850	9.09
May	84	151,750	2.11	12.27	256,600	21.36
June	12	15,000	2.01	1.14	271,600	22.50
July	61	105,000	2.70	10.64	376,600	33.14
August					376,600	33.14
September					376,600	33.14
October	42	80,050	3.45	10.58	456,650	43.72
November					456,650	43.72
December	10	19,150	3.34	2.43	475,800	46.15

2021 Total Gallons: 475,800

2021 Total Loads: 266

2021 Total Metric Tons: 46.15

2021 Average % Solids: 2.65%

*Total Mercury Applied
per Field*

Wright #1 - .0348 kg/ha (-17) = 16.9652
 Wright #2 - .0004 kg/ha (-17) = 16.9996
 Choate #1 - .0228 kg/ha (-17) = 16.9772
 Choate #2 - .0165 kg/ha (-17) = 16.9835
 Choate #3 - .0237 kg/ha (-17) = 16.9763

Jamestown Wastewater Treatment Plant BioSolids Land Applied

DATE	Field	# of Loads	Total Gallons	% Solids	Metric Tons	Driver
7/28/21	Wright Farm	6 ✓	13200	2.65	1.32	JB
				Ave %	Actual M.T.	
	July Totals	61	105,000	2.70%	10.64 Metric Ton	
			376,600 - YTD gals		33.14 - YTD M.T.	
<u>October 2021</u>						
10/1/21	Wright Farm	4	5,000	3.66	.69	JB MB
10/1/21	Wright Farm	5	11,000	3.66	1.52	AM MB JB
10/2/21	Wright Farm	6	13,200	4.05	2.02	JB
10/15/21	Wright Farm	6	13,200	3.22	1.61	JB
10/15/21	Wright Farm	4	5,000	3.22	.61	MB
10/19/21	Wright Farm	6	13,200	3.14	1.57	JB
10/19/21	Wright Farm	1	1,250	3.14	.15	MB
10/20/21	Wright	4	5,000	3.50	.66	MB/AM
10/20/21	Wright	6	13,200	3.50	1.75	JB
				Ave. %	Actual MT	
	Oct. Totals -	42 Loads	80,050 gal	3.45%	10.58 - MT	
			+ 376,600		+ 33.14	
		YTD =	456,650 gal		43.72 - MT	
<u>Nov. 2021</u>						
<u>Dec. 2021</u>						
12/3/21	Wright Farm	7	15,400	3.34	1.95	JB
12/3/21	Wright Farm	3	3750	3.34	0.48	MB/gd
December Totals :		10	19150	Ave. 3.34	- 2.43 MT	

2021 Totals: Loads Gallons Ave. Metric Tons Actual Metric Tons
 2166 475,800 2.65% 41.15

Jamestown Wastewater Treatment Plant BioSolids Land Applied

DATE	Field	# of Loads	Total Gallons	% Solids	Metric Tons	Driver
5/18/21	Wright#2	3 ✓	3,750	2.02%	.29	AM
5/25/21	Wright#2	5 ✓	11,000	2.41%	1.00	JB
5/25/21	Wright#2	5 ✓	6,250	2.41%	.57	MB
5/27/21	Choate#2	14 ✓	30,800	2.23%	2.60	JB
5/27/21	Choate#2	13 ✓	16,250	2.23%	1.37	MB/AM
	May 2021	Totals		Ave %	Actual M.T.	
		86 =	151,750 gal	2.11%	12.27 - Metric Tons	
			YTD - 256,600		YTD - 2636 MT	
6/1/21	Choate#2	12 ✓	15,000	2.01%	1.14	MB
	June Totals	12	15,000	2.01%	1.14%	MB
			YTD - 271,600		YTD - 22.5	
July 2021						
7/6/21	Wright Farm	6 ✓	13,200	3.34 %	1.67	JB
7/6/21	Wright Farm	2 ✓	2,500	3.34 %	.32	MB/JD
7/7/21	Wright Farm	5 ✓	6,500	2.58 %	.63	MB/JD
7/8/21	Wright Farm	5 ✓	11,000	1.91 %	.79	JB
7/8/21	Wright Farm	9	11,250	1.91 %	.81	MB/JD
7/16/21	Wright Farm	4 ✓	5,000	2.60%	.49	MB
7/16/21	Wright Farm	5 ✓	11,000	2.60%	1.08	JB
7/23/21	Wright Farm	8 ✓	17,600	3.05%	2.03	JB
7/23/21	Wright Farm	6 ✓	7,500	3.05%	.87	MB
7/28/21	Wright Farm	5 ✓	6,250	2.65%	.63	MB

Jamestown Wastewater Treatment Plant BioSolids Land Applied

DATE	Field	# of Loads	Total Gallons	% Solids	Metric Tons	Driver
4/6/21	Choate #3	5 ✓	11,000	2.26	.94	JB
4/6/21	Choate #3	4 ✓	5,000	2.26	.43	MB
4/7/21	Choate #3	6 ✓	13,200	2.04	1.02	JB
4/7/21	Choate #3	5 ✓	6,250	2.04	.48	MB
4/15/21	Choate #1	12 ✓	26,400	2.51	2.51	JB
4/15/21	Choate #1	5 ✓	6,250	2.51	.59	Am/MB
4/16/21	Choate #1	7 ✓	15,400	2.05	1.19	JB
4/16/21	Choate #1	3 ✓	3,750	2.05	.29	Am/MB
4/19/21	Wright Farm #1	2 ✓	4,400	2.61	.43	JB
4/20/21	Wright Farm #1	3 ✓	6,600	2.28	.57	JB
4/27/21	Wright Farm #1	3 ✓	6,600	2.55	.64	JB
April 2021 Totals				Ave %	Actual M.F.	
		55 =	104,850 gal	2.29%	9.09 - Metric Tons	
5/10/21	Wright #2	5 ✓	11,000	2.13%	.89	JB
5/10/21	Wright #2	5 ✓	6,250	2.13%	.50	Am/MB
5/12/21	Wright #2	8 ✓	17,200	2.01%	1.31	JB
5/12/21	Wright #2	6 ✓	7,500	2.01%	.57	Am/MB
5/13/21	Wright #2	4 ✓	5,000	1.66%	.31	Am/MB
5/14/21	Wright #2	5 ✓	11,000	1.96%	.82	JB
5/15/21	Wright #2	7 ✓	15,400	2.13%	1.24	JB
5/15/21	Wright #2	3 ✓	3,750	2.13%	.30	Am
5/18/21	Wright #2	3 ✓	6,600	2.02	.50	JB

Jamestown Wastewater Treatment Plant

2021

BioSolids Land Application Log

Field Identification: Wright Farm #1

Land Owner: Gary Wright

Address: 601 Joe Barnett Road
Jamestown, TN 38556

County: Fentress

Loading Rate: 2 Tons/Acre
Nitrogen

Total Acres: 47
Ha: 19.02

Max Tons: 94 (Nitrogen)

Date	Loads	Gallons	% Solids	Dry Metric Tons	YTD Metric Tons	YTD Gallon
4/19/21	2	4400	2.61	.43	.43	4400
4/20/21	3	6600	2.28	.57	1.00	11,000
4/27/21	3	6600	2.55	.64	1.64	17600
7/6/21	6	13,200	3.34	1.67	3.31	36,800
7/6/21	2	2500	3.34	.32	3.63	33,300
7/7/21	5	6500	2.58	.63	4.26	39,800
7/8/21	5	11,000	1.91	.79	5.05	50,800
7/8/21	9	11,250	1.91	.81	5.86	62050
7/16/21	4	5000	2.60	.49	6.35	67050
7/16/21	5	11,000	2.60	1.08	7.43	78050
7/23/21	8	17,600	3.05	2.03	9.46	95650
7/23/21	6	7500	3.05	.87	10.33	103,150
7/28/21	5	6250	2.65	.63	10.96	109,400
7/28/21	6	13,200	2.65	1.32	12.28	122,600
10/1/21	4	5,000	3.66	.69	12.97	127,600
10/1/21	5	11,000	3.66	1.52	14.49	138,600
10/2/21	6	13,200	4.05	2.02	16.51	151,800
10/15/21	6	13,200	3.22	1.61	18.12	165,000
10/15/21	4	5,000	3.22	.61	18.73	170,000

Jamestown Wastewater Treatment Plant

2021

BioSolids Land Application Log

Field Identification: Wright Farm #2

Land Owner: Gary Wright

Address: 1090 Darrow Ridge Rd
Jamestown, TN 38556

County: Fentress

Loading Rate: 2 Tons/Acre
(Nitrogen)

Total Acres: 50
Ha: 20.234

Max Tons: 100 (Nitrogen)

Date	Loads	Gallons	% Solids	Dry Metric Tons	YTD Metric Tons	YTD Gallons
5/10/21	5	11000	2.13	.89	.89	11000
5/10/21	5	6,250	2.13	.50	1.39	17250
5/12/21	8	17200	2.01	1.31	2.70	34,450
5/12/21	6	7,500	2.01	.57	3.27	41,950
5/13/21	4	5,000	1.66	.31	3.58	46,950
5/14/21	5	11,000	1.96	.82	4.40	57,950
5/15/21	7	15400	2.13	1.24	5.64	73,350
5/15/21	3	3,750	2.13	.30	5.94	77,100
5/18/21	3	6600	2.02	.50	6.44	83,700
5/18/21	3	3,750	2.02	.29	6.73	87,450
5/25/21	5	11,000	2.41	1.00	7.73	98,450
5/25/21	5	6,250	2.41	.57	8.30	104,700
	2021	Total	Ave	Actual		
	Loads	Gallon	% Solids	Metric Tons	MT/ha	
	59	104,700	2.09%	8.30	0.4102	
	Total Mercury Applied - 2021					

$$(26.2 \text{ mg/kg})(0.4102 \text{ MT/ha})(.001) = 0.0064 \text{ kg/ha}$$

Jamestown Wastewater Treatment Plant

2021

BioSolids Land Application Log

Field Identification: Choate #1

Land Owner: Ronnie Choate

Address: 199 State Garage Road
Jamestown, TN 38556

County: Fentress

Loading Rate: 2 Tons/Acre

Total Acres: 13

Max Tons: 26 (Nitrogen)

Hectares: 5.26

Date	Loads	Gallons	% Solids	Dry Metric Tons	YTD Metric Tons
4/15/21	12	26,400	2.51	2.51	2.51
4/15/21	5	6,250	2.51	.59	3.10
4/16/21	7	15,400	2.05	1.19	4.29
4/16/21	3	3,750	2.05	.29	4.58
	2021	Totals	Ave.	Actual	
	Loads	Gallows.	% Solids	Metric Tons	
	27	51,800	2.28%	4.58	
	Total Mercury Applied - 2021				
	$(26.2 \text{ mg/kg})(0.87 \text{ MT/ha})(.001) = 0.0228 \text{ kg/ha}$				

32,650
48,050
51,800

Jamestown Wastewater Treatment Plant

2021

BioSolids Land Application Log

Field Identification: Choate #2

Land Owner: Ronnie Choate

Address: Stanford Street
Jamestown, TN 38556

County: Fentress

Loading Rate: 2.0 Tons/Acre

Total Acres: 20

Max Tons: 40 (Nitrogen)

Hectares: 8.094

Date	Loads	Gallons	% Solids	Dry Metric Tons	YTD Metric Tons
5/27/21	14	30,800	2.23	2.60	2.60
5/27/21	13	16,250	2.23	1.37	1.37
6/1/21	12	15,000	2.01	1.14	5.11
	2021 Totals		Ave.	Actual	
	Loads	Gallons	% Solids	Metric Tons	MT/ha
	39	62,050	2.16%	5.11	0.63
	Total Mercury Applied - 2021				
	$(26.2 \text{ mg/kg}) (0.63 \text{ MT/ha}) (0.001) = 0.0165 \text{ kg/ha}$				

47,050
62,050

Jamestown Wastewater Treatment Plant

2021

BioSolids Land Application Log

Field Identification: Choate #3

Land Owner: Ronnie Choate

Address: 2315 S. York Highway
Jamestown, TN 38556

County: Fentress

Loading Rate: 2.0 Tons/Acre

Total Acres: 7.84

Max Tons: 15.68 (Nitrogen)

Hectares: 3.173

Date	Loads	Gallons	% Solids	Dry Metric Tons	YTD Metric Tons
4/6/21	5	11,000	2.26	.94	.94
4/6/21	4	5,000	2.26	.43	1.37
4/7/21	6	13,200	2.04	1.02	2.39
4/7/21	5	6,250	2.04	.48	2.87
	2021	Totals	Ave.	Actual	
	Loads	Gallons	% Solids	Metric Tons	MT/ha
	20	35,450	2.15%	2.87	.90
	Total Mercury Applied - 2021				
	$(26.2 \text{ mg/kg}) (.90 \text{ MT/ha}) (.001) = 0.0236 \text{ kg/ha}$				

16,000
29,200
35,450