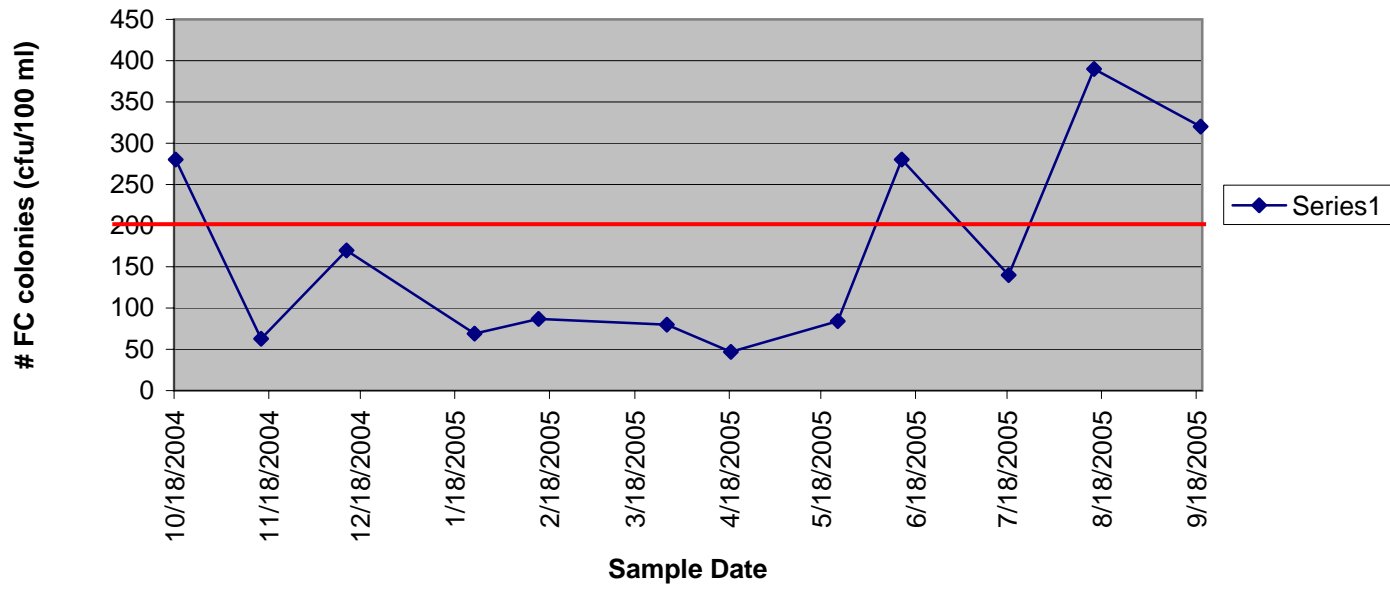


WY 2005: Fauntleroy Creek Fecal Coliform Data



Application of the lognormal probability model to Fauntleroy Creek fecal coliform data

Date	Site	Original fecal coliform data cfu/100 mL	log10 (fc)	Rolled back fecal coliform values	log of rolled back values
10/18/2004	Faunt @ mouth	280	2.447158031	167.1073668	2.222995596
11/15/2004	Faunt @ mouth	63	1.799340549	37.59915754	1.575178114
12/13/2004	Faunt @ mouth	170	2.230448921	101.4580442	2.006286486
1/24/2005	Faunt @ mouth	69	1.838849091	41.18002969	1.614686655
2/14/2005	Faunt @ mouth	87	1.939519253	51.92264613	1.715356817
3/28/2005	Faunt @ mouth	80	1.903089987	47.74496196	1.678927552
4/18/2005	Faunt @ mouth	47	1.672097858	28.05016515	1.447935423
5/23/2005	Faunt @ mouth	84	1.924279286	50.13221005	1.700116851
6/13/2005	Faunt @ mouth	280	2.447158031	167.1073668	2.222995596
7/18/2005	Faunt @ mouth	140	2.146128036	83.55368342	1.9219656
8/15/2005	Faunt @ mouth	390	2.591064607	232.7566895	2.366902172
9/19/2005	Faunt @ mouth	320	2.505149978	190.9798478	2.280987543
arithmetic mean		168		100	
arithmetic std dev		118.7		70.9	
arithmetic CV		0.7		0.7	
mean of logs			2.12036		1.896194534
std.dev. Of logs			0.31588		0.315882851
90%tile of logs			2.52519		2.301029996
CV of logs			0.14898		0.166587787
<b>Reduction to meet geometric mean standard</b>					
geo mean of samples			132		79
target geometric mean (standard)			100		100
reduction in geometric mean to meet target			24.20%		0.00%
<b>Reduction to meet 90%tile standard</b>					
90%tile of samples			335		200
target 90%tile (standard)			200		200
reduction in log 90%tile to meet target			40.32%		0.0%
<b>Most limiting rollback (geometric mean or 90%tile)</b>					
greatest percent reduction			40.32%		0.0%
<b>r = limiting rollback (100% - %reduction)</b>			<b>59.68%</b>		<b>100.0%</b>