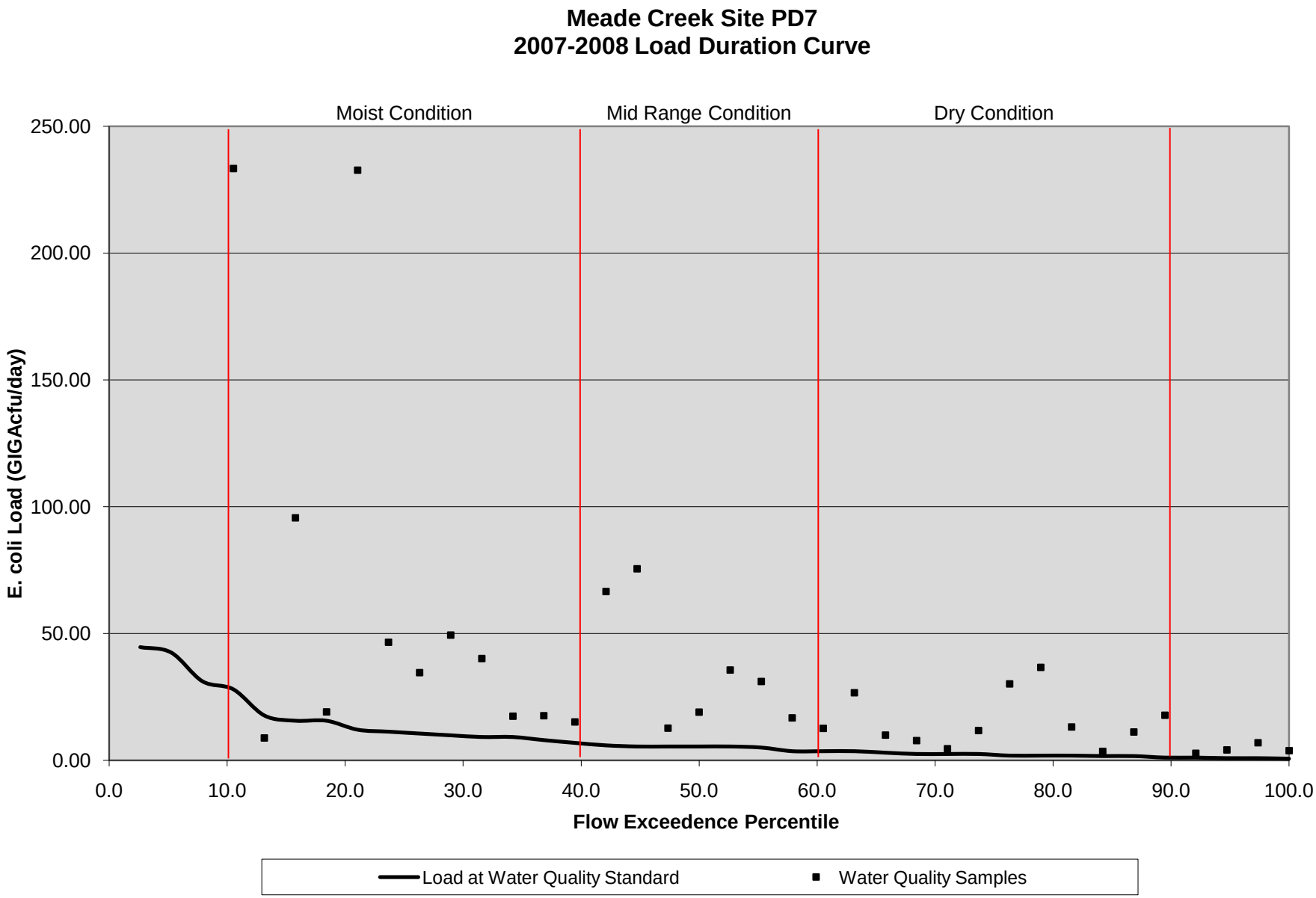
Meade Creek Site PD7
Load Duration Curve Calculations for *E. coli* bacteria

Primary Contact Standard Daily Load Capacity (GIGAcfu/day) =
[126 (cfu/100 ml)* measured flow (cfs) * 24465525 mL*s/ft^3*day]/1,000,000,000
Sampled Load (GIGAcfu/day) =
[Sampled E.Coli (cfu/100ml) * measured flow (cfs) * 24465525 mL*s/ft3*day]/1,000,000,000

Measured Flow (cfs)	E. coli Sampled (cfu/100ml)	Percent of Time Flows Exceed Measured Flow (%)	Load Capacity at Primary Contact Standard (GIGAcfu/day)	E. coli Load Sampled (GIGAcfu/day)	
14.48	770	2.6	44.64	***272.78***	*
13.78	980	5.3	42.48	***330.42***	*
10.12	2420	7.9	31.20	***599.16***	*
9.09	1050	10.5	28.01	233.38	
5.74	63	13.2	17.69	8.84	
5.08	770	15.8	15.65	95.62	
5.08	154	18.4	15.65	19.12	
3.93	2420	21.1	12.12	232.69	
3.68	517	23.7	11.34	46.52	
3.44	411	26.3	10.60	34.58	
3.21	629	28.9	9.90	49.42	
3.00	548	31.6	9.24	40.17	
3.00	238	34.2	9.24	17.45	
2.60	276	36.8	8.01	17.55	
2.24	276	39.5	6.92	15.16	
1.93	1410	42.1	5.94	66.52	
1.78	1730	44.7	5.50	75.51	
1.78	291	47.4	5.50	12.70	
1.78	435	50.0	5.50	18.99	
1.78	816	52.6	5.50	35.62	
1.65	770	55.3	5.08	31.05	
1.18	579	57.9	3.65	16.76	
1.18	435	60.5	3.65	12.59	
1.18	921	63.2	3.65	26.65	
0.99	411	65.8	3.06	9.98	
0.83	387	68.4	2.55	7.83	
0.83	228	71.1	2.55	4.61	
0.83	579	73.7	2.55	11.71	
0.62	1990	76.3	1.91	30.15	
0.62	2420	78.9	1.91	36.66	
0.62	866	81.6	1.91	13.12	
0.56	261	84.2	1.73	3.58	
0.56	816	86.8	1.73	11.18	
0.37	1990	89.5	1.13	17.80	
0.37	308	92.1	1.13	2.75	
0.29	579	94.7	0.90	4.12	
0.29	980	97.4	0.90	6.97	
0.23	687	100.0	0.70	3.83	

*Instantaneous *E. coli* loads not displayed on curve.

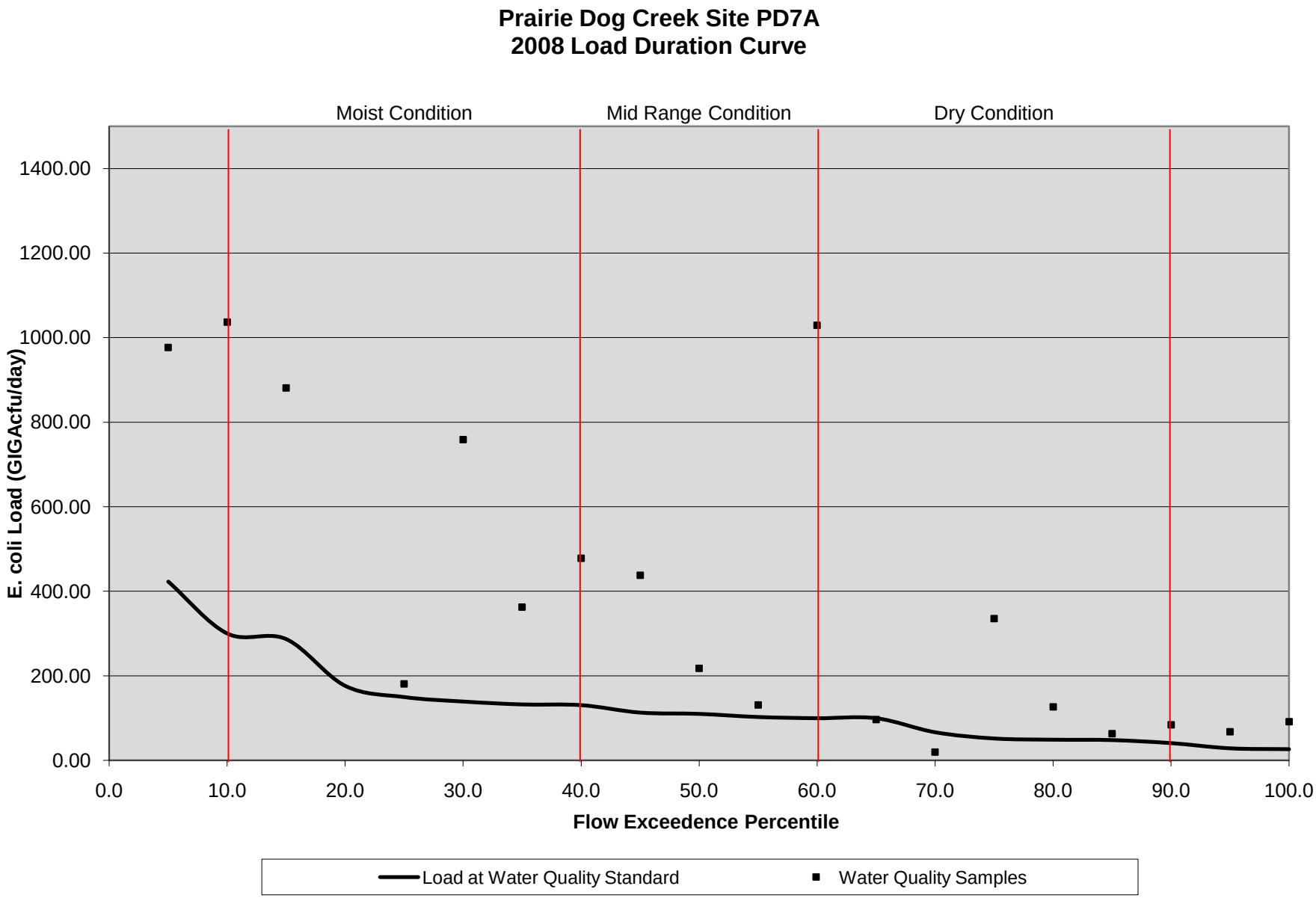

Meade Creek Site PD7
2007-2008 Load Duration Curve
Moist Condition
Mid Range Condition
Dry Condition
250.00
200.00
150.00
100.00
50.00
0.00
E. coli Load (GIGAcfu/day)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
Flow Exceedence Percentile
Load at Water Quality Standard
Water Quality Samples

Prairie Dog Creek Site PD7A
Load Duration Curve Calculations for *E. coli* bacteria

Primary Contact Standard Daily Load Capacity (GIGAcfu/day) =
[126 (cfu/100 ml)* measured flow (cfs) * 24465525 mL*s/ft^3*day]/1,000,000,000
Sampled Load (GIGAcfu/day) =
[Sampled E.Coli (cfu/100ml) * measured flow (cfs) * 24465525 mL*s/ft3*day]/1,000,000,000

Measured Flow (cfs)	E. coli Sampled (cfu/100ml)	Percent of Time Flows Exceed Measured Flow (%)	Load Capacity at Primary Contact Standard (GIGAcfu/day)	E. coli Load Sampled (GIGAcfu/day)	
137.22	291	5.0	423.00	976.94	
97.39	435	10.0	300.23	1036.49	
93.07	387	15.0	286.90	881.18	
57.20	1990	20.0	176.33	***2784.85***	*
48.59	152	25.0	149.80	180.71	
45.15	687	30.0	139.19	758.91	
42.94	345	35.0	132.37	362.43	
42.40	461	40.0	130.69	478.16	
36.68	488	45.0	113.08	437.95	
35.69	249	50.0	110.03	217.44	
33.29	161	55.0	102.63	131.14	
32.36	1300	60.0	99.75	1029.17	
32.36	122	65.0	99.75	96.58	
21.59	37	70.0	66.56	19.55	
16.81	816	75.0	51.83	335.64	
15.88	326	80.0	48.94	126.63	
15.57	166	85.0	48.00	63.24	
13.26	260	90.0	40.86	84.32	
9.26	299	95.0	28.53	67.71	
8.60	435	100.0	26.50	91.49	

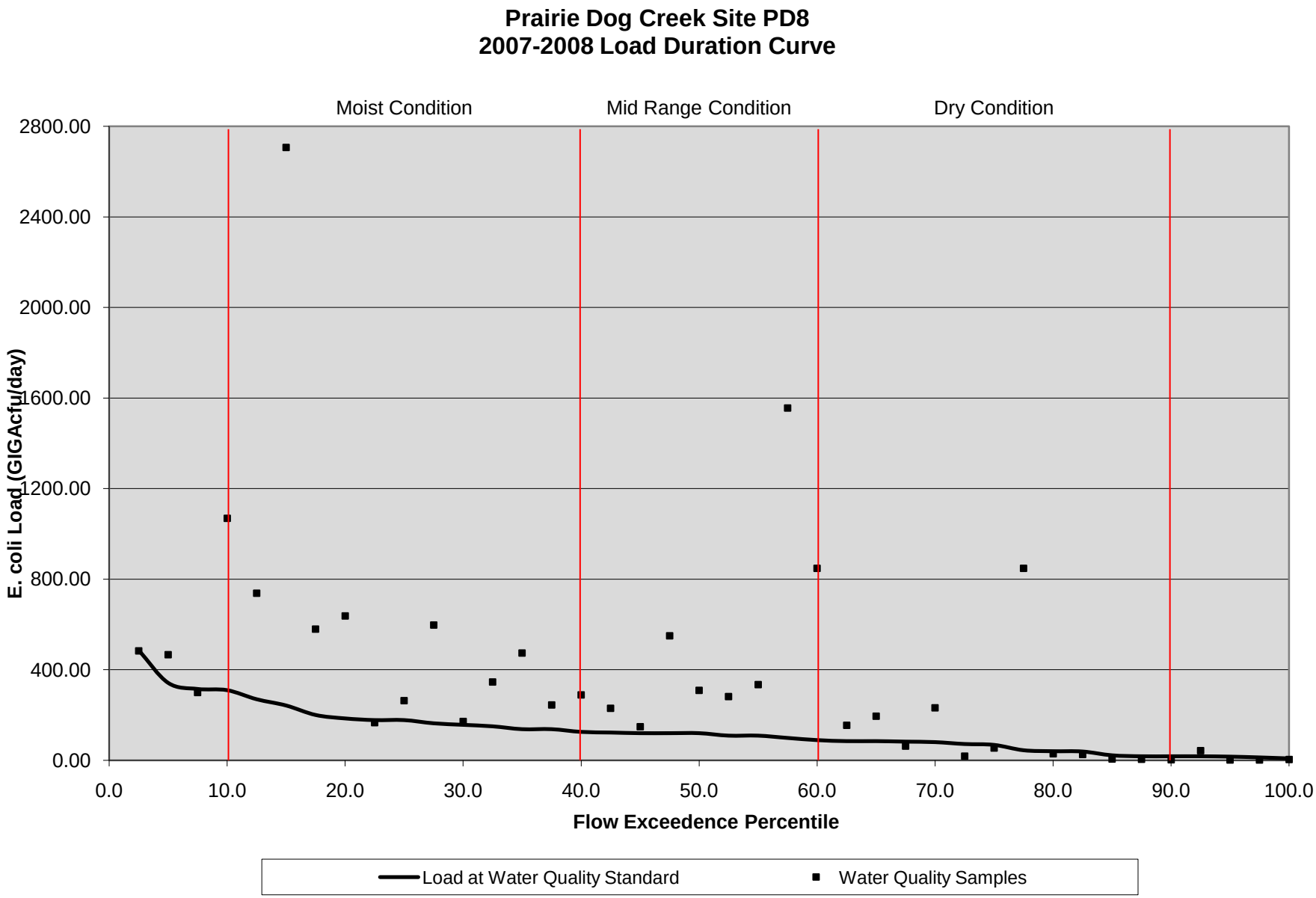
*Instantaneous *E. coli* loads not displayed on curve.


Prairie Dog Creek Site PD7A
2008 Load Duration Curve
Moist Condition
Mid Range Condition
Dry Condition
E. coli Load (GIGAcfu/day)
1400.00
1200.00
1000.00
800.00
600.00
400.00
200.00
0.00
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
Flow Exceedence Percentile
Load at Water Quality Standard
Water Quality Samples

Prairie Dog Creek Site PD8
Load Duration Curve Calculations for *E. coli* bacteria

Primary Contact Standard Daily Load Capacity (GIGAcfu/day) =
[126 (cfu/100 ml)* measured flow (cfs) * 24465525 mL*s/ft^3*day]/1,000,000,000
Sampled Load (GIGAcfu/day) =
[Sampled E.Coli (cfu/100ml) * measured flow (cfs) * 24465525 mL*s/ft3*day]/1,000,000,000

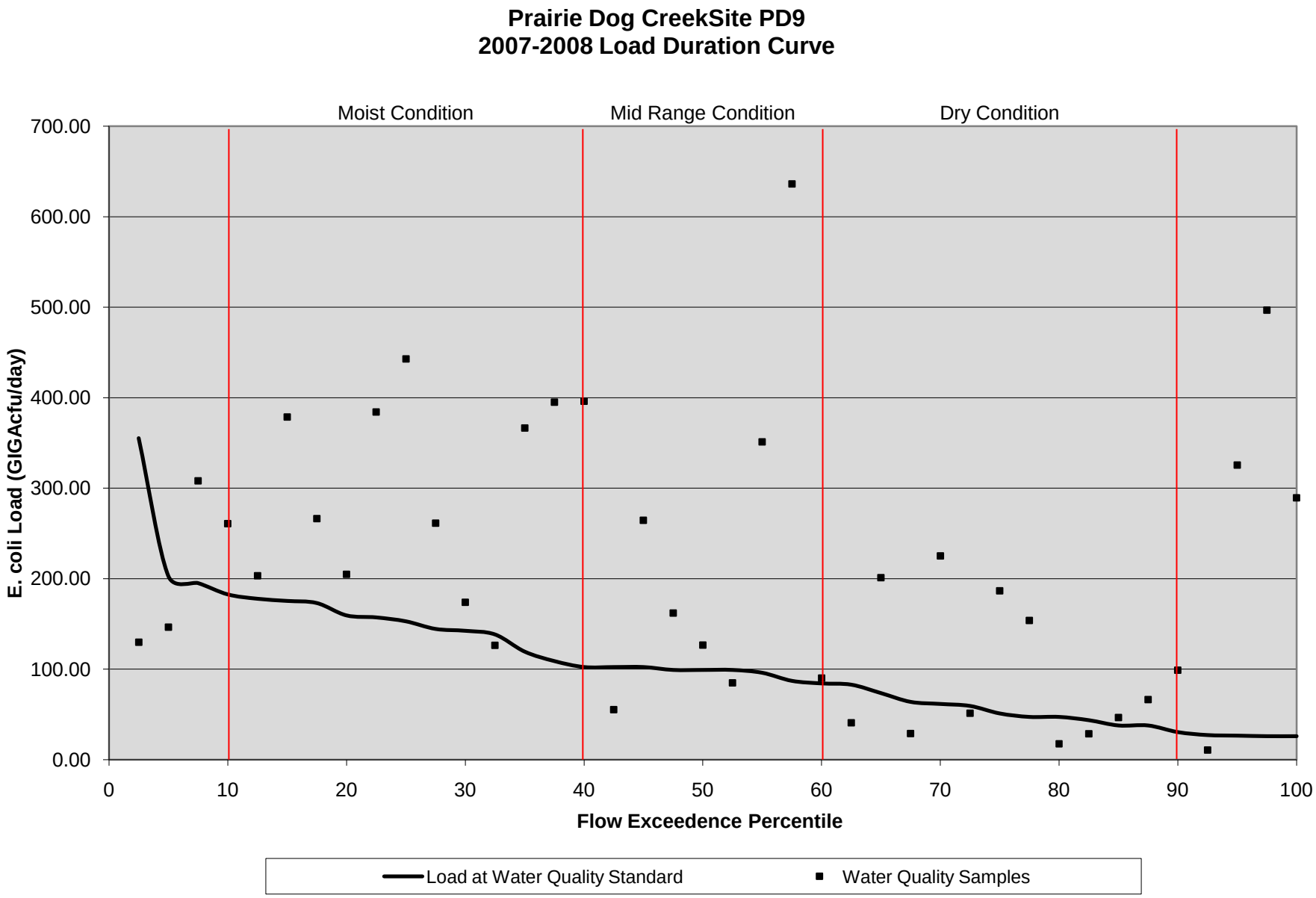
Measured Flow (cfs)	E. coli Sampled (cfu/100ml)	Percent of Time Flows Exceed Measured Flow (%)	Load Capacity at Primary Contact Standard (GIGAcfu/day)	E. coli Load Sampled (GIGAcfu/day)
157.90	125	2.5	486.74	482.88
110.92	172	5.0	341.94	466.77
102.11	120	7.5	314.77	299.78
100.40	435	10.0	309.51	1068.54
87.43	345	12.5	269.51	737.94
78.45	1410	15.0	241.84	2706.36
64.88	365	17.5	200.00	579.36
59.91	435	20.0	184.69	637.63
57.53	118	22.5	177.34	166.08
57.53	187	25.0	177.34	263.19
52.94	461	27.5	163.21	597.14
50.75	138	30.0	156.43	171.33
48.61	291	32.5	149.84	346.06
44.51	435	35.0	137.21	473.70
44.51	225	37.5	137.21	245.02
40.65	291	40.0	125.30	289.38
39.72	236	42.5	122.43	229.31
38.80	156	45.0	119.61	148.08
38.80	579	47.5	119.61	549.62
38.80	326	50.0	119.61	309.46
35.27	326	52.5	108.74	281.33
35.27	387	55.0	108.74	333.98
31.96	1990	57.5	98.54	1556.24
28.87	1200	60.0	88.98	847.47
27.39	231	62.5	84.44	154.82
27.39	291	65.0	84.44	195.03
26.68	96	67.5	82.23	62.65
25.97	365	70.0	80.06	231.92
23.27	32	72.5	71.75	18.22
22.00	102	75.0	67.81	54.89
14.32	2420	77.5	44.16	848.06
12.95	93	80.0	39.92	29.47
12.51	84	82.5	38.57	25.71
7.07	32	85.0	21.78	5.53
5.68	32	87.5	17.50	4.45
5.68	16	90.0	17.50	2.22
5.68	308	92.5	17.50	42.79
5.18	16	95.0	15.96	2.03
4.06	20	97.5	12.50	1.98
2.61	62	100.0	8.06	3.96


Prairie Dog Creek Site PD8
2007-2008 Load Duration Curve
Moist Condition
Mid Range Condition
Dry Condition
2800.00
2400.00
2000.00
1600.00
1200.00
800.00
400.00
0.00
E. coli Load (GIGAcfu/day)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
Flow Exceedence Percentile
Load at Water Quality Standard
Water Quality Samples

Prairie Dog Creek Site PD9
Load Duration Curve Calculations for *E. coli* bacteria

Primary Contact Standard Daily Load Capacity (GIGAcfu/day) =
[126 (cfu/100 ml)* measured flow (cfs) * 24465525 mL*s/ft^3*day]/1,000,000,000
Sampled Load (GIGAcfu/day) =
[Sampled E.Coli (cfu/100ml) * measured flow (cfs) * 24465525 mL*s/ft3*day]/1,000,000,000

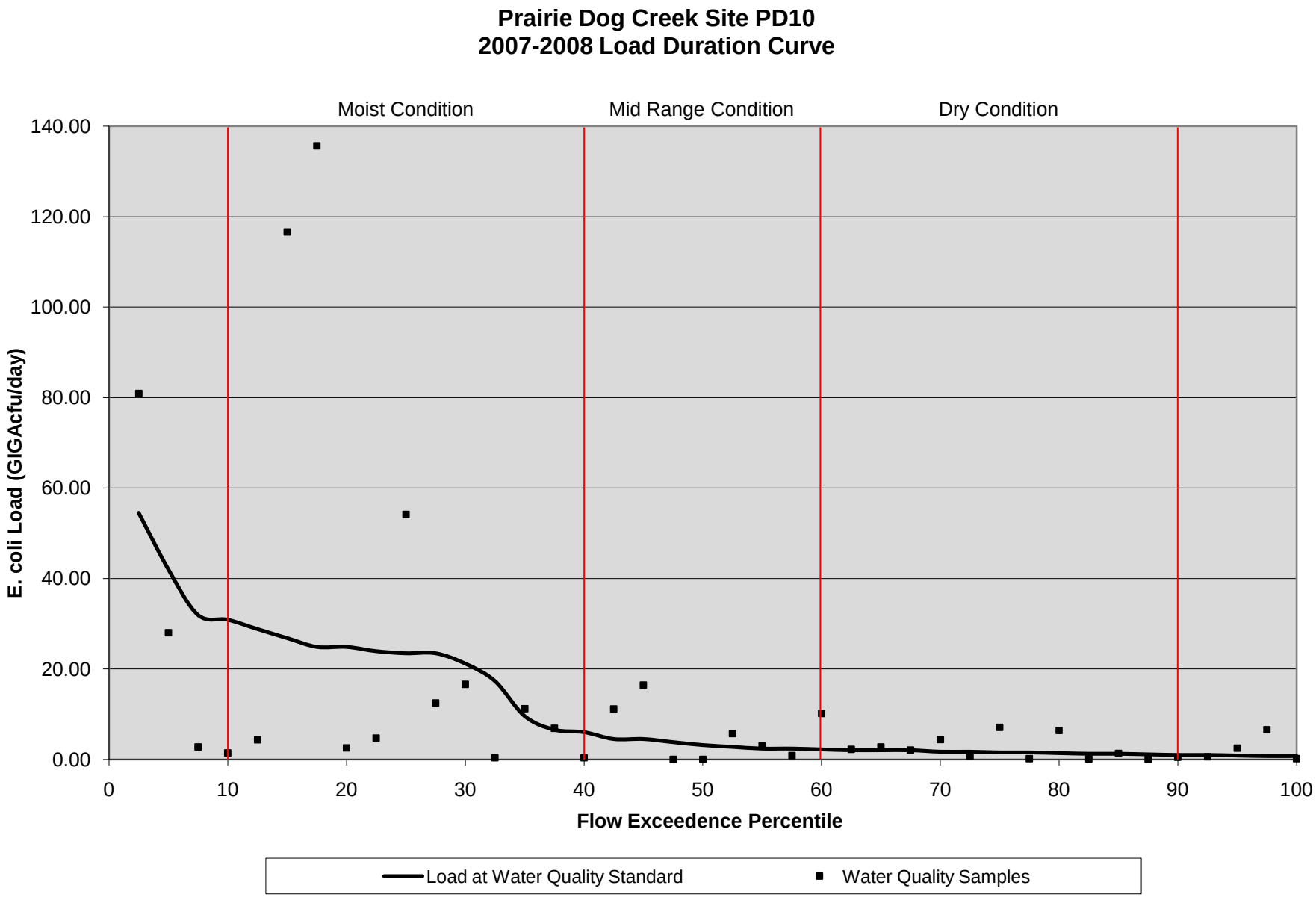
Measured Flow (cfs)	E. coli Sampled (cfu/100ml)	Percent of Time Flows Exceed Measured Flow (%)	Load Capacity at Primary Contact Standard (GIGAcfu/day)	E. coli Load Sampled (GIGAcfu/day)
115.28	46	2.5	355.36	129.73
65.81	91	5	202.87	146.52
63.29	199	7.5	195.10	308.13
59.24	180	10	182.62	260.89
57.68	144	12.5	177.80	203.19
56.90	272	15	175.42	378.68
56.14	194	17.5	173.06	266.46
51.71	162	20	159.39	204.93
50.99	308	22.5	157.19	384.24
49.58	365	25	152.85	442.79
46.85	228	27.5	144.44	261.36
46.19	154	30	142.38	174.02
44.88	115	32.5	138.34	126.27
38.72	387	35	119.35	366.59
35.33	457	37.5	108.90	394.96
33.18	488	40	102.30	396.20
33.18	68	42.5	102.30	55.21
33.18	326	45	102.30	264.67
32.15	206	47.5	99.11	162.03
32.15	161	50	99.11	126.64
32.15	108	52.5	99.11	84.95
31.14	461	55	95.99	351.19
28.24	921	57.5	87.05	636.30
27.32	135	60	84.21	90.22
26.86	62	62.5	82.81	40.75
23.84	345	65	73.50	201.24
20.69	57	67.5	63.79	28.86
19.96	461	70	61.51	225.07
19.24	109	72.5	59.30	51.30
16.54	461	75	50.99	186.57
15.30	411	77.5	47.17	153.86
15.30	47	80	47.17	17.59
14.13	83	82.5	43.55	28.69
12.23	156	85	37.71	46.69
12.23	222	87.5	37.71	66.44
9.85	411	90	30.35	99.01
8.79	50	92.5	27.09	10.75
8.59	1550	95	26.47	325.62
8.39	2420	97.5	25.86	496.64
8.39	1410	100	25.86	289.37


Prairie Dog CreekSite PD9
2007-2008 Load Duration Curve
Moist Condition
Mid Range Condition
Dry Condition
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
E. coli Load (GIGAcfu/day)
0
10
20
30
40
50
60
70
80
90
100
Flow Exceedence Percentile
Load at Water Quality Standard
Water Quality Samples

Prairie Dog Creek Site PD10
Load Duration Curve Calculations for *E. coli* bacteria

Primary Contact Standard Daily Load Capacity (GIGAcfu/day) =
[126 (cfu/100 ml)* measured flow (cfs) * 24465525 mL*s/ft^3*day]/1,000,000,000
Sampled Load (GIGAcfu/day) =
[Sampled E.Coli (cfu/100ml) * measured flow (cfs) * 24465525 mL*s/ft3*day]/1,000,000,000

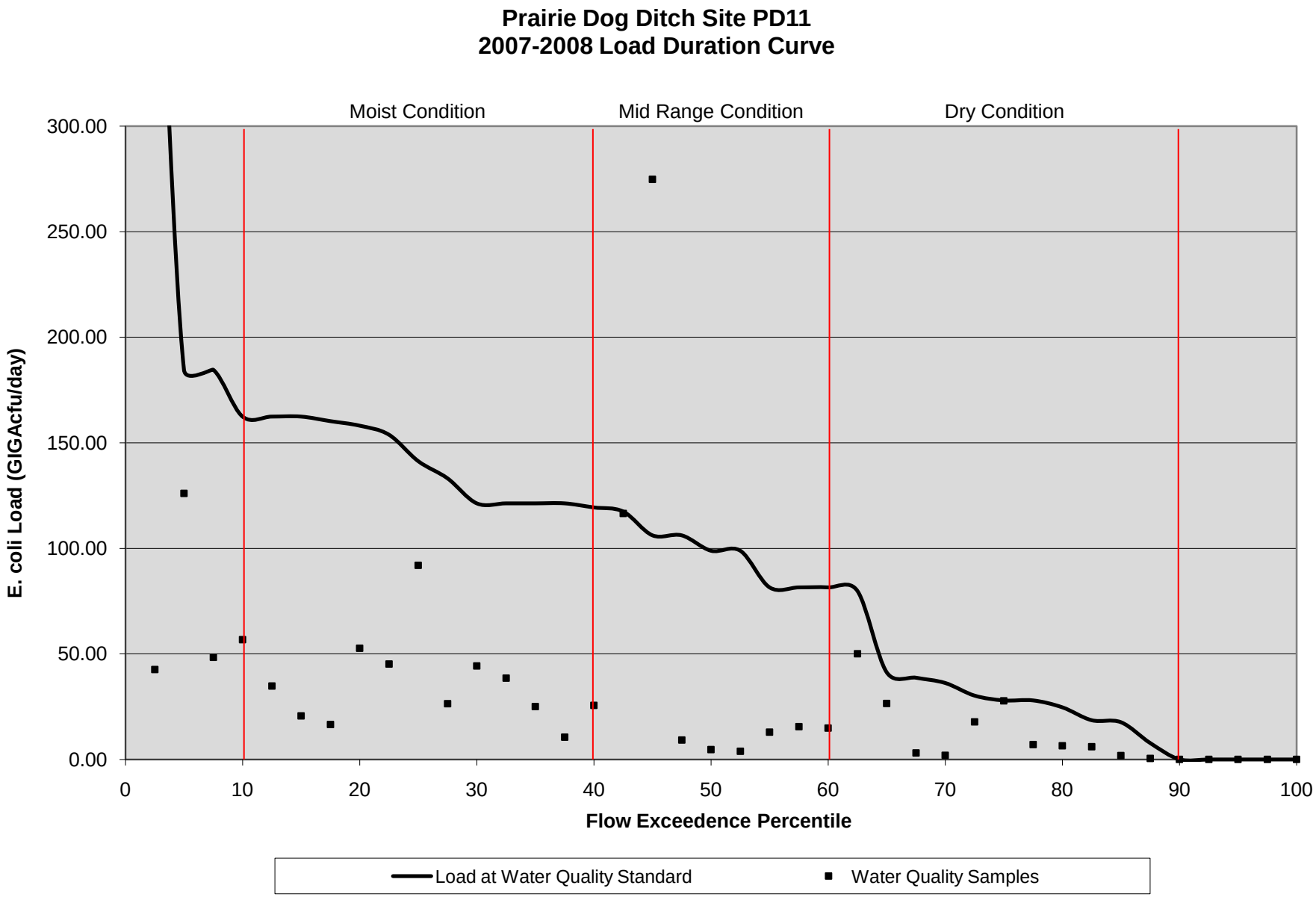
Measured Flow (cfs)	E. coli Sampled (cfu/100ml)	Percent of Time Flows Exceed Measured Flow (%)	Load Capacity at Primary Contact Standard (GIGAcfu/day)	E. coli Load Sampled (GIGAcfu/day)
17.68	187	2.5	54.50	80.88
13.63	84	5	42.00	28.00
10.35	11	7.5	31.92	2.79
10.01	6	10	30.87	1.47
9.35	19	12.5	28.81	4.34
8.70	548	15	26.81	116.62
8.07	687	17.5	24.87	135.62
8.07	13	20	24.87	2.57
7.76	25	22.5	23.93	4.75
7.61	291	25	23.46	54.18
7.61	67	27.5	23.46	12.47
6.87	99	30	21.17	16.64
5.61	3	32.5	17.31	0.41
3.11	148	35	9.57	11.24
2.13	132	37.5	6.57	6.88
1.95	8	40	6.02	0.38
1.46	313	42.5	4.50	11.19
1.46	461	45	4.50	16.48
1.24	0.5	47.5	3.81	0.02
1.03	0.5	50	3.17	0.01
0.90	260	52.5	2.77	5.72
0.78	161	55	2.39	3.06
0.78	46	57.5	2.39	0.87
0.72	579	60	2.21	10.16
0.66	140	62.5	2.04	2.26
0.66	172	65	2.04	2.78
0.66	130	67.5	2.04	2.10
0.55	326	70	1.70	4.41
0.55	52	72.5	1.70	0.70
0.50	579	75	1.55	7.11
0.50	13	77.5	1.55	0.16
0.45	579	80	1.40	6.42
0.41	15	82.5	1.25	0.15
0.41	133	85	1.25	1.32
0.36	7	87.5	1.11	0.06
0.32	67	90	0.98	0.52
0.32	75	92.5	0.98	0.59
0.28	365	95	0.86	2.49
0.24	1120	97.5	0.74	6.59
0.24	28	100	0.74	0.16


Prairie Dog Creek Site PD10
2007-2008 Load Duration Curve
Moist Condition
Mid Range Condition
Dry Condition
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
E. coli Load (GIGAcfu/day)
0
10
20
30
40
50
60
70
80
90
100
Flow Exceedence Percentile
Load at Water Quality Standard
Water Quality Samples

Prairie Dog Ditch Site PD11
Load Duration Curve Calculations for *E. coli* bacteria

Primary Contact Standard Daily Load Capacity (GIGAcfu/day) =
[126 (cfu/100 ml)* measured flow (cfs) * 24465525 mL*s/ft^3*day]/1,000,000,000
Sampled Load (GIGAcfu/day) =
[Sampled E.Coli (cfu/100ml) * measured flow (cfs) * 24465525 mL*s/ft3*day]/1,000,000,000

Measured Flow (cfs)	E. coli Sampled (cfu/100ml)	Percent of Time Flows Exceed Measured Flow (%)	Load Capacity at Primary Contact Standard (GIGAcfu/day)	E. coli Load Sampled (GIGAcfu/day)
145.14	12	2.5	447.42	42.61
59.91	86	5	184.69	126.06
59.91	33	7.5	184.69	48.37
52.71	44	10	162.49	56.74
52.71	27	12.5	162.49	34.82
52.71	16	15	162.49	20.63
52.01	13	17.5	160.33	16.54
51.31	42	20	158.18	52.73
49.93	37	22.5	153.91	45.20
45.86	82	25	141.38	92.01
43.22	25	27.5	133.24	26.44
39.38	46	30	121.38	44.31
39.38	40	32.5	121.38	38.53
39.38	26	35	121.38	25.05
39.38	11	37.5	121.38	10.60
38.75	27	40	119.44	25.60
38.12	125	42.5	117.52	116.59
34.46	326	45	106.22	274.82
34.46	11	47.5	106.22	9.27
32.09	6	50	98.93	4.71
32.09	5	52.5	98.93	3.93
26.46	20	55	81.56	12.95
26.46	24	57.5	81.56	15.54
26.46	23	60	81.56	14.89
25.92	79	62.5	79.90	50.09
13.41	81	65	41.33	26.57
12.58	10	67.5	38.77	3.08
11.76	7	70	36.27	2.01
9.83	74	72.5	30.29	17.79
9.09	125	75	28.02	27.80
9.09	32	77.5	28.02	7.12
8.02	33	80	24.73	6.48
6.05	41	82.5	18.63	6.06
5.74	13	85	17.68	1.82
2.53	9	87.5	7.81	0.56
0.02	11	90	0.08	0.01
0.01	6	92.5	0.03	0.00
0.01	2	95	0.03	0.00
0.01	0.5	97.5	0.03	0.00
0.01	3	100	0.03	0.00


Prairie Dog Ditch Site PD11
2007-2008 Load Duration Curve
Moist Condition
Mid Range Condition
Dry Condition
300.00
250.00
200.00
150.00
100.00
50.00
0.00
E. coli Load (GIGAcfu/day)
0
10
20
30
40
50
60
70
80
90
100
Flow Exceedence Percentile
Load at Water Quality Standard
Water Quality Samples