



## HURON COUNTY HEALTH UNIT



## BEACH WATER MONITORING REPORT 2008

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# Huron County Health Unit 2008 Seasonal Beach Water Monitoring Program



Safe to Swim



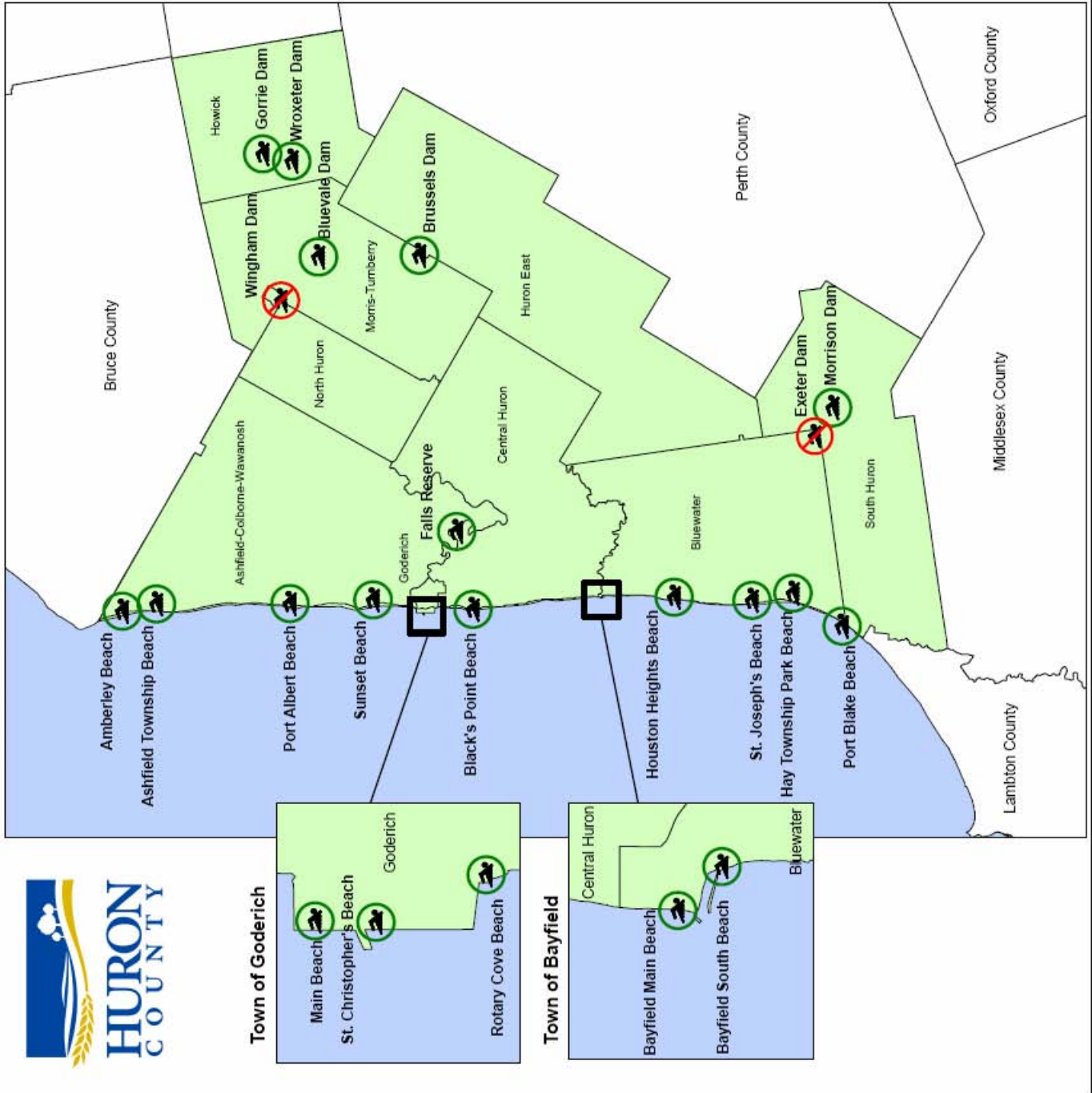
Unsafe to Swim

Look for these Signs:



For Additional Information:

**HURON COUNTY HEALTH UNIT**  
**Beach Water Quality Infoline :**  
**482-5119 or toll free 1-877-837-6143 Ext. 2501**  
Website : [www.huroncounty.ca/healthunit](http://www.huroncounty.ca/healthunit)



## Huron County Health Unit *Beach Water Quality Report 2008*

### Introduction:

Beach water and inland sampling began on June 3, 2008 and continued until August 28, 2008. The Huron County Health Unit's Beach Water Monitoring students sampled the beaches.

Different forms of sampling were conducted in the 2008 season. On Tuesdays the shoreline locations were sampled, and on Thursdays the shoreline locations with adverse results from Tuesday, along with beaches with public washrooms, were re-sampled. The inland dams were sampled once a month. Bayfield Main Beach and Goderich Rotary Cove Beach were sampled everyday (Monday-Friday). The London Public Health Lab was responsible for all inland and lakeshore samples for the entire summer.

Lakeshore and inland locations were posted either red (unsafe for swimming) or blue (safe for swimming) sign based on historical five year geometric means. These signs remained the same for the entire 2008 swimming season.

The 2008 Beach Water Quality Report includes the following information:

- Posted lakeshore and inland swimming location map
- 1-3-5 year lakeshore and inland swimming location geometric mean beach water result summaries;
- Beach Water Monitoring Program promotional materials;
- 2004-2008 (5 year shoreline *E.coli* Geometric Mean) chart;
- 2004-2008 (5 year inland *E.coli* Geometric Mean) chart;
- Number of days swimming locations sampled in 2008;
- Individual swimming location sampling data; and
- Seasonal 10 year *E.coli* geometric mean trend.

**Note:** the provincial recreational beach water standard for *E.coli* is 100 C.F.U./100mL.

Based on a 5 year geometric mean average the following locations will be posted as being unsafe for the 2009 swimming season:

Lakeshore: no posted beaches

Inland: Exeter and Wingham Dams

The sampling schedule for the 2009 summer season will include sampling the lakeshore locations on Tuesdays, with second samples being taken on Thursday at those locations which have public washrooms or an *E.coli* count greater than 100 C.F.U./100mL from Tuesday's samples. The inland dam locations will not be tested this summer, but the usual blue and white or red and white signs will still be posted for the summer.

If you have any questions please contact Acting Public Health Manager – Safe Water, Bob Worsell directly at 519-482-5119 Ext. 2328 or toll-free at 1-877-6143 Ext. 2328.

## 2008 Lakeshore and Inland Geometric Mean (GM) Beach Water Result Summaries

Lakeshore Public Beach Locations	5 Year 2004 to 2008 <i>E. coli</i> GM	3 Year 2006 to 2008 <i>E.</i> <i>coli</i> GM	1 Year 2008 <i>E. coli</i> GM
Amberley Beach	52	40	50
Ashfield Township Park Beach	62*	49	83
Bayfield Main Beach	40	37	49
Bayfield South Beach	38	37	59
Black's Point Beach	60	59	96
Goderich - Main Beach	74	68	75
Goderich - Rotary Cove Beach	53	45	77
Goderich - St. Christopher's Beach	58	61	100
Hay Township Park Beach	53	46	55
Houston Heights Beach	44	44	75
Port Albert Beach	58	59	70
Port Blake Beach	41	33	37
St. Joseph's Beach	57*	60	103
Sunset Beach	26	24	37

Inland Public Dam Locations	5 Year 2004 to 2008 <i>E. coli</i> GM	3 Year 2006 to 2008 <i>E.</i> <i>coli</i> GM	1 Year 2008 <i>E. coli</i> GM
Bluevale Dam	63*	57	40
Brussels Dam	60*	50	69
Exeter Dam	85*	86	109
Falls Reserve	75*	63	53
Gorrie Dam	65*	57	53
Morrison Dam	24	30	38
Wingham Dam	156*	145	170
Wroxeter Dam	73	63	96

### Notes:

\* Site included at least one annual geometric mean greater than 100 *E. coli* per 100 mL water in the last 5 years

- 5 Year *E. coli* Geometric Mean of 81 or greater
- 5 Year *E. coli* Geometric Mean between 61 and 80
- 5 Year *E. coli* Geometric Mean of 60 or lower



## Sampling Protocol

Two sampling procedures were performed for the 2008 season:

1. **Lakeshore samples** – Lake Huron samples were taken at the sampler's waist depth (approx. 3 feet). Reaching poles were used to obtain a sample in water that had not been disturbed by the sampler's movements. Five samples were taken per location approximately 50 to 100 feet apart depending on the length of the shoreline.
2. **Inland Samples** – samplers conducted inland samples from the shore or pier with reaching poles. Five samples were taken per location. Since most inland locations did not allow for a 50 to 100 foot length between sites, the site was divided into 5.

At each sampling site, samplers recorded the following information: water temperature, water clarity, wind direction, number of waterfowl, precipitation in the last 24 and 48 hours, number of birds, sunlight intensity, and air temperature.

### Sampling Schedule:

For the 2008 summer the following schedule was applied:

- Monday, Wednesday, and Friday – Bayfield Main Beach and Goderich Rotary Cove Beach
- Tuesday – all shoreline locations (including Bogies) plus Exeter and Morrison Dams inland locations (excluding Exeter and Morrison Dams)
- Thursday – high risk beaches or beaches with public washrooms (Amberley, Ashfield, Port Albert, Goderich Main, St. Christopher's Beach, Rotary Cove, Bayfield Main, Houston Heights, and Port Blake) and any adverse shoreline results from Tuesday's samples (For example, a result of 100 C.F.U./100mL or greater).

### Notes:

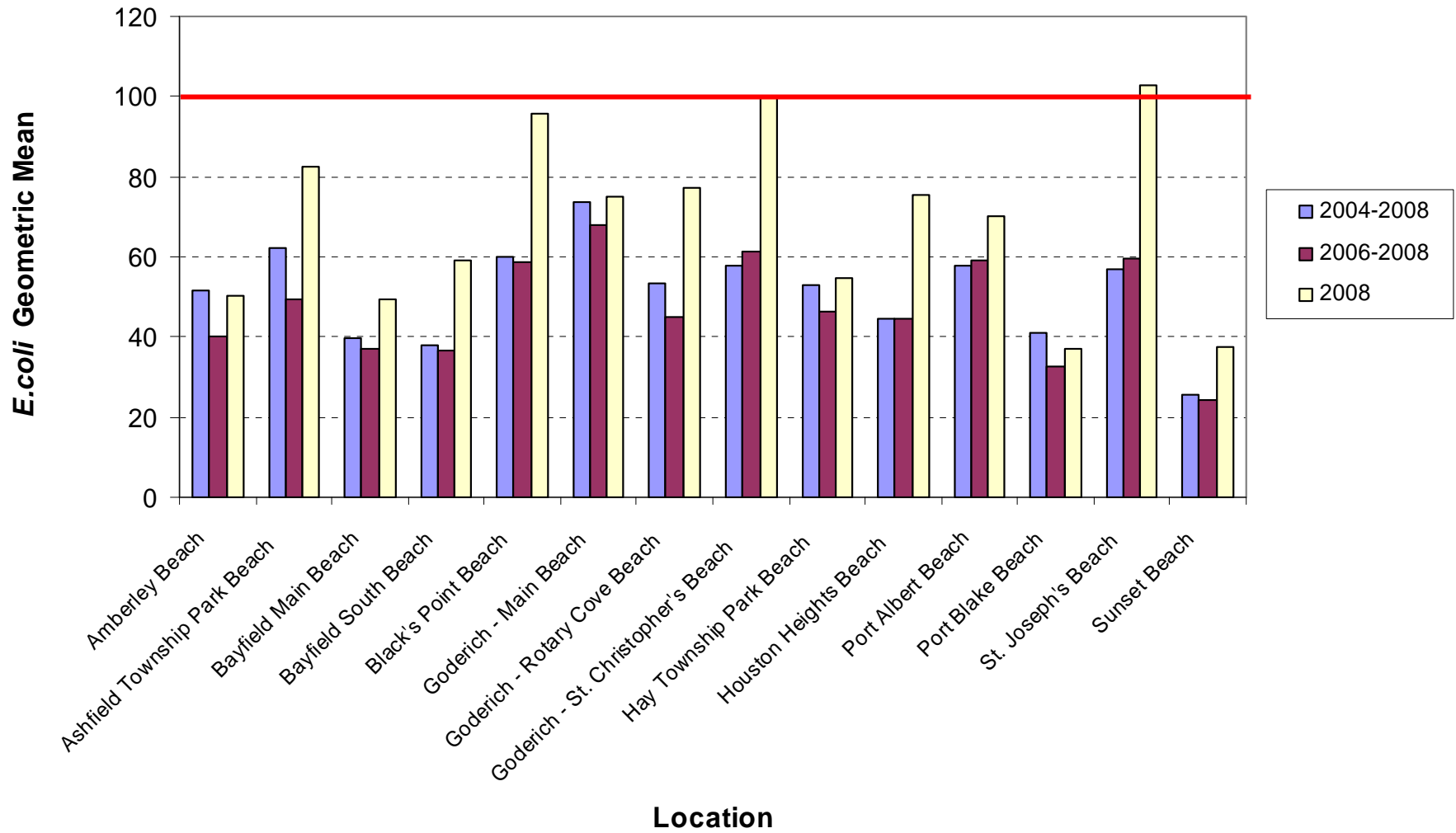
On Mondays, Wednesdays, and Fridays, the samplers left the health unit at 8:00 am.

On Tuesdays and Thursdays the samplers left the health unit at 6:00 am.

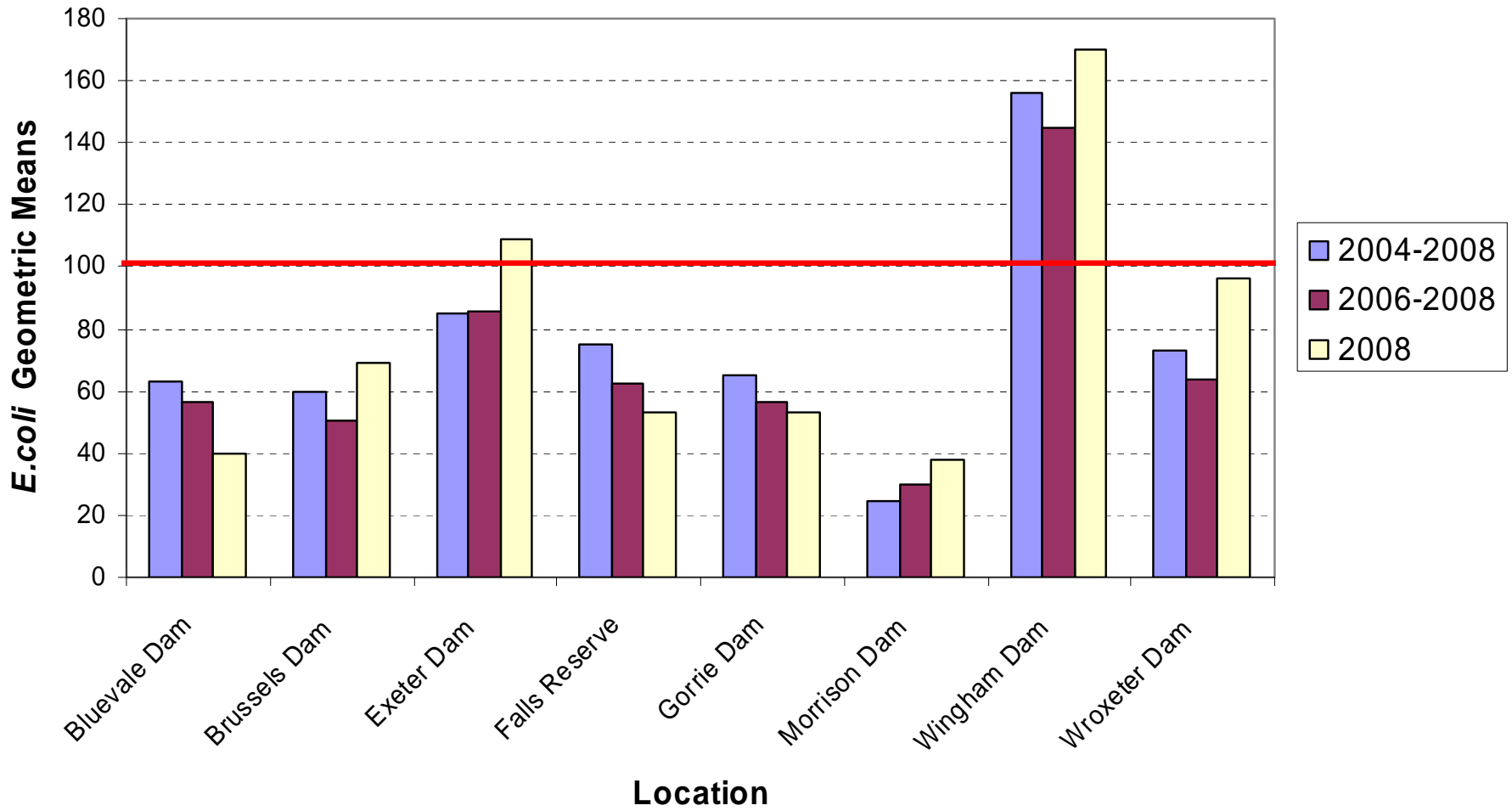
Tuesday and Thursday samples were to be at the Ausable Bayfield Conservation Authority by 2 pm to meet the courier (Helix) to be at the Public Health Lab in London by 3 pm.

Monday, Wednesday, and Friday samples were brought back to the health unit by 10:00 to be sent to the Public Health Lab in London.

## 2004-2008 Shoreline *E.coli* Geometric Means



### 2004-2008 Inland *E.coli* Geometric Means



## Number Of Days Sampled - 2008

Location	June	July	August	Total
<b><i>SHORELINE LOCATIONS</i></b>				
Amberley Beach	9	9	7	25
Ashfield Twp. Park	9	8	7	24
Bayfield Main	9	22	19	50
Bayfield South	8	7	5	20
Black's Point	7	6	5	18
Goderich - Main	9	9	7	25
Goderich - Rotary Cove	9	22	16	47
Goderich- St. Christopher's	9	9	7	25
Hay Township Park	7	8	5	20
Houston Heights	9	9	7	25
Port Albert	9	9	7	25
Port Blake	9	9	7	25
St. Joseph's	8	8	6	22
Sunset Beach	6	5	4	15
<b><i>INLAND LOCATIONS</i></b>				
Bluevale Dam	1	1	1	3
Brussels Dam	1	1	1	3
Exeter Dam	1	1	1	3
Falls Reserve/Benmiller	1	1	1	3
Gorrie Dam	1	1	1	3
Morrison Dam	1	1	1	3
Wingham Dam	1	1	1	3
Wroxeter Dam	1	1	1	3

# **SHORELINE LOCATIONS**

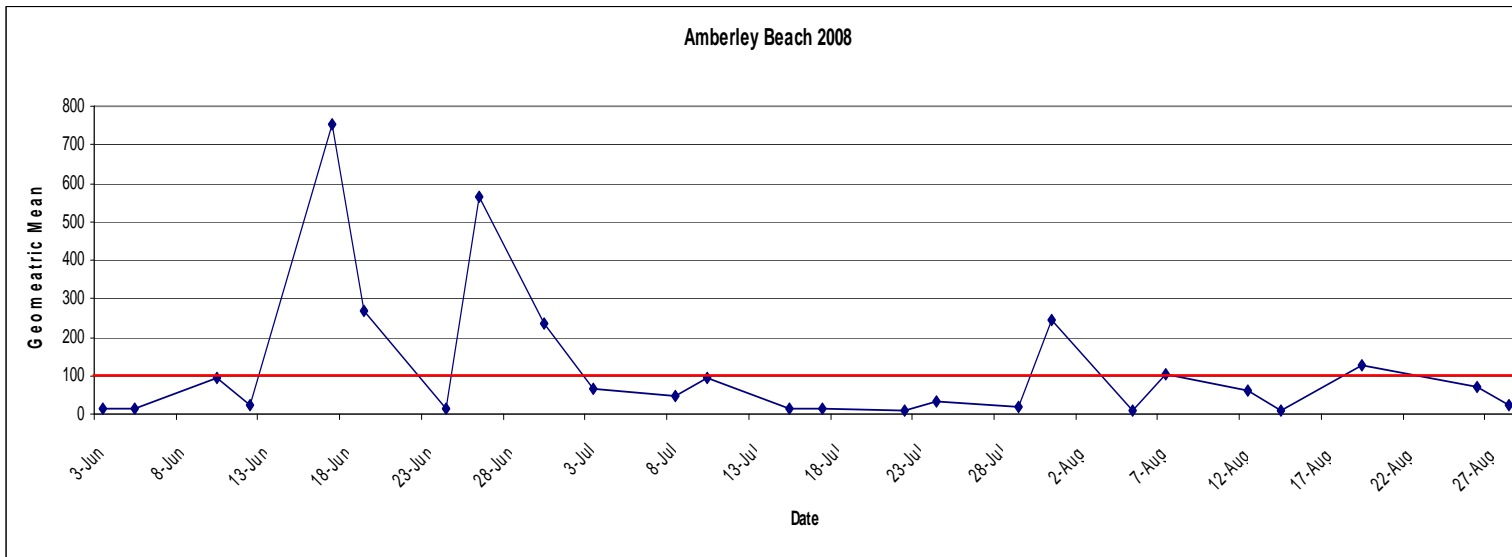
## Amberley Beach 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
3-Jun-08	10	30	10	10	10	12	16.8	Opaque	Ripples	NE	Overcast	18	YES		L	425+	Very large numbers of geese found at right of the beach
5-Jun-08	10	30	10	30	10	16	14.0	Turbid	Ripples	SE	Overcast	20	YES		H	300+	Geese to the right of the beach
10-Jun-08	20	50	80	20	4300	93	19.2	Opaque	Ripples	SW	Overcast	18	YES	YES	H	0	
12-Jun-08	10	10	10	50	110	22	18.7	Turbid	Ripples	SE	Clear	23				0	
17-Jun-08	800	700	900	650	750	755	14.7	Opaque	Rough	NW	Overcast	11	YES		H	0	
19-Jun-08	270	260	350	280	210	270	14.4	Turbid	Ripples	SW	Overcast	14	YES		L	0	
24-Jun-08	10	30	40	10	10	16	18.0	Opaque	Ripples	NE	Partly Cloudy	18				0	
26-Jun-08	760	450	490	550	620	564	20.4	Opaque	Ripples	SW	Clear	20	yes		L	0	
30-Jun-08	210	220	290	210	250	234	18.0	Opaque	Ripples	N	Overcast	17	YES	YES	H	0	
3-Jul-08	120	100	90	30	40	66	18.0	Opaque	Calm	NNW	Clear	18		YES	L	0	
8-Jul-08	40	60	20	90	60	48	21.0	Turbid	Ripples	SSW	Overcast	22		YES	M	0	
10-Jul-08	180	40	120	70	110	92	19.0	Turbid	Calm	SW	Clear	16	YES		M	50	
15-Jul-08	20	10	10	40	10	15	20.0	Opaque	Calm	SE	Clear	20				0	
17-Jul-08	10	20	50	10	10	16	22.6	Turbid	Calm	SE	Clear	21		YES	L	0	
22-Jul-08	10	10	10	10	10	10	24.0	Clear	Calm	SE	Overcast	21	YES	YES	H	0	
24-Jul-08	30	60	50	30	20	35	18.0	Opaque	Calm	NE	Clear	18		YES	L	0	
29-Jul-08	20	40	10	10	30	19	19.7	Slightly Turbid	Calm	SE	Clear	20		YES	M	2	
31-Jul-08	220	170	280	280	310	246		Opaque	Calm	SW	Clear	19				1	
5-Aug-08	20	10	10	10	10	11	20.0	Turbid	Calm	SE	Clear	20				0	
7-Aug-08	110	70	130	100	120	104	20.2	Opaque	Calm	SE	Clear	20				0	
12-Aug-08	70	50	70	50	60	59	18.0	Opaque	Calm	NW	Clear	17		YES		0	
14-Aug-08	10	10	10	10	10	10	19.6	Slightly Turbid	Calm	E	Clear	16				0	
19-Aug-08	130	220	150	120	60	125	19	Opaque	Calm	NE	Clear	17	YES			0	
26-Aug-08	70	80	40	90	100	73	16	Opaque	Calm	SE	Clear	10				1	
28-Aug-08	30	30	20	20	30	26	19	Opaque	Calm	NE	Partly Cloudy	18				0	

### Legend

Rainfall Values Determined by Environment Canada

Heavy H >0.75 cm/hour  
 Moderate M 0.26-0.75 cm/hour  
 Light L 0.0-0.25 cm/hour



Date	Geo Mean
3-Jun-08	10
5-Jun-08	10
10-Jun-08	30
12-Jun-08	52
17-Jun-08	89
19-Jun-08	10
24-Jun-08	10
26-Jun-08	12
30-Jun-08	<b>5578</b>
2-Jul-08	37
3-Jul-08	80
4-Jul-08	11
7-Jul-08	21
8-Jul-08	<b>655</b>
9-Jul-08	<b>193</b>
10-Jul-08	18
11-Jul-08	<b>217</b>
14-Jul-08	<b>171</b>
15-Jul-08	75
16-Jul-08	40
17-Jul-08	22
18-Jul-08	<b>753</b>
21-Jul-08	27
22-Jul-08	18
23-Jul-08	20
24-Jul-08	<b>269</b>
25-Jul-08	78
28-Jul-08	37
29-Jul-08	15
30-Jul-08	<b>274</b>
31-Jul-08	37
1-Aug-08	<b>478</b>
5-Aug-08	10
6-Aug-08	<b>378</b>
7-Aug-08	15
8-Aug-08	<b>210</b>
11-Aug-08	21
12-Aug-08	12
13-Aug-08	33
14-Aug-08	20
15-Aug-08	16
18-Aug-08	<b>435</b>
19-Aug-08	76
20-Aug-08	98
21-Aug-08	14
22-Aug-08	18
25-Aug-08	<b>236</b>
26-Aug-08	23
27-Aug-08	14
28-Aug-08	11

49.242607

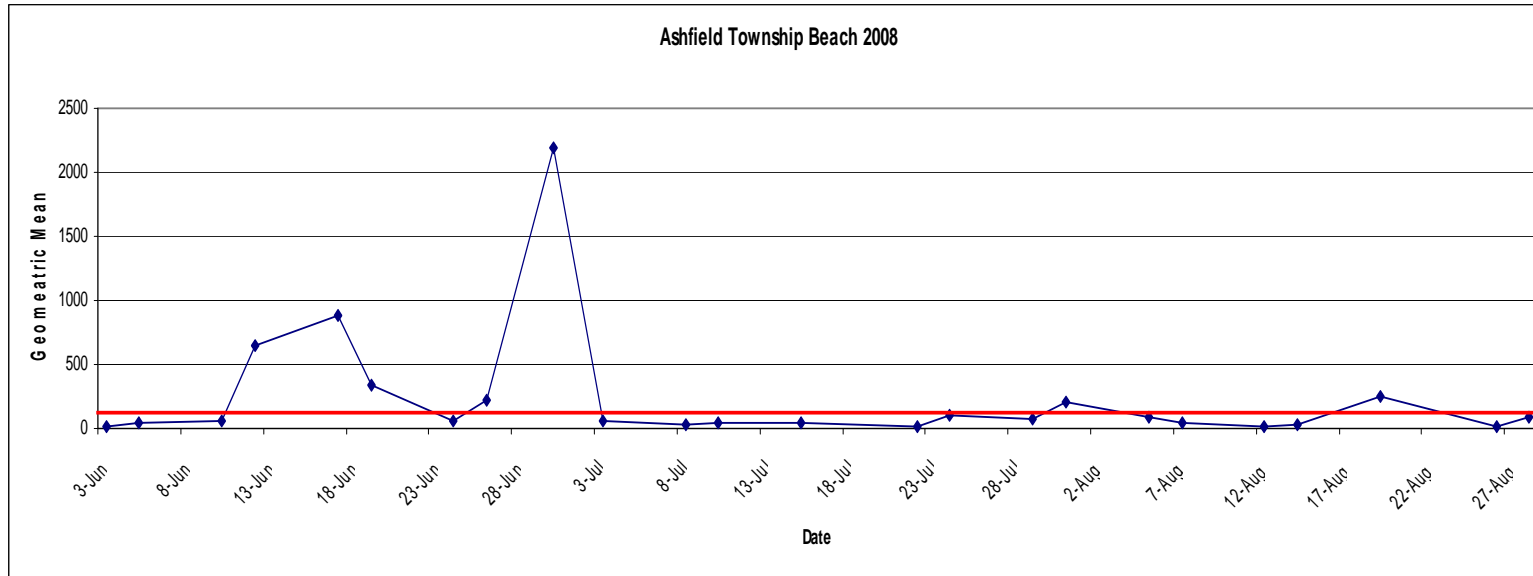
## Ashfield Township Beach 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
3-Jun-08	20	10	10	10	10	40	14	14.2	Opaque	Ripples	NE	Overcast	16				85-100	Lots of geese just to the left of sample points
5-Jun-08	50	20	50	20	30	130	40	13.9	Turbid	Ripples	SE	Partly Cloudy	20				0	Large amounts of algae near and adjacent to stream
10-Jun-08	100	20	30	100	40	200	60	19.1	Opaque	Ripples	SW	Overcast	18				0	River outflow in to lake is very brown
12-Jun-08	530	630	700	510	800	810	653	18.0	Turbid	Calm	SE	Clear	23				0	
17-Jun-08	850	800	1100	860	660	1100	881	17.0	Opaque	Rough	NW	Overcast	11				0	
19-Jun-08	260	310	210	260	340	970	336	14.9	Turbid	Ripples	SW	Overcast	13				60	Algae on little river going onto beach
24-Jun-08	10	40	60	110	120	200	63	18.0	Opaque	Ripples	NE	Partly Cloudy	18				65	
26-Jun-08	160	360	250	170	90	490	218	20.1	Turbid	Ripples	SW	Clear	20				10	
30-Jun-08	2100	2000	1300	2400	1200	7000	2189	18.0	Opaque	>1m	N	Overcast	17				1	
3-Jul-08	50	70	50	60	80	60	61	19.0	Opaque	Ripples	NNW	Clear	18				0	
8-Jul-08	20	20	50	10	60	40	28	22.0	Turbid	Ripples	SSW	Overcast	22				0	
10-Jul-08	40	10	80	50	50	230	51	20.0	Opaque	Ripples	SW	Clear	16				0	
15-Jul-08	60	30	60	20	20	90	40	20.1	Opaque	Ripples	SE	Clear	20				0	
22-Jul-08	30	10	10	10	20	20	15	24.0	Clear	Calm	SE	Overcast	21				0	
24-Jul-08	60	50	60	20	90	4300	106	18.0	Opaque	Ripples	SE	Clear	18		YES	H	0	
29-Jul-08	60	50	60	130	60	160	78	21.0	Turbid	Calm	SE	Clear	20	YES		M	0	
31-Jul-08	440	170	180	90	160	400	207		Opaque	Calm	SW	Clear	19				6	
5-Aug-08	140	180	40	60	30	230	86	20.4	Turbid	Ripples	SE	Clear	20				28	birds are gulls
7-Aug-08	40	50	50	10	50	80	40	20.8	Opaque	Rough	SE	Clear	20				25	
12-Aug-08	20	20	10	30	10		16	18.0	Opaque	Ripples	NW	Clear	17				10	
14-Aug-08	20	30	30	10	10	210	27	19.1	Slightly turbid	Calm	E	Clear	16				0	
19-Aug-08	230	160	170	180	1000	220	251	19.3	Opaque	Ripples	NE	Clear	17	YES			40	
26-Aug-08	10	10	40	10	10	60	17	16.4	Turbid	Calm	E	Clear	10				0	
28-Aug-08	100	40	230	170	170	20	90	19.1	Turbid	Ripples	NE	Partly Cloudy	18				0	

### Legend

Rainfall Values Determined by Environment Canada

Heavy H >0.75 cm/hour  
 Moderate M 0.26-0.75 cm/hour  
 Light L 0.0-0.25 cm/hour



Date	Geo Mean
3-Jun-08	14
5-Jun-08	40
10-Jun-08	60
12-Jun-08	653
17-Jun-08	881
19-Jun-08	336
23-Jun-08	63
26-Jun-08	218
1-Jul-08	2189
3-Jul-08	61
8-Jul-08	28
10-Jul-08	51
15-Jul-08	40
22-Jul-08	15
24-Jul-08	106
29-Jul-08	78
31-Jul-08	207
5-Aug-08	86
7-Aug-08	40
12-Aug-08	16
14-Aug-08	27
19-Aug-08	251
26-Aug-08	17
28-Aug-08	90

82.630959

## Bayfield Main 2008

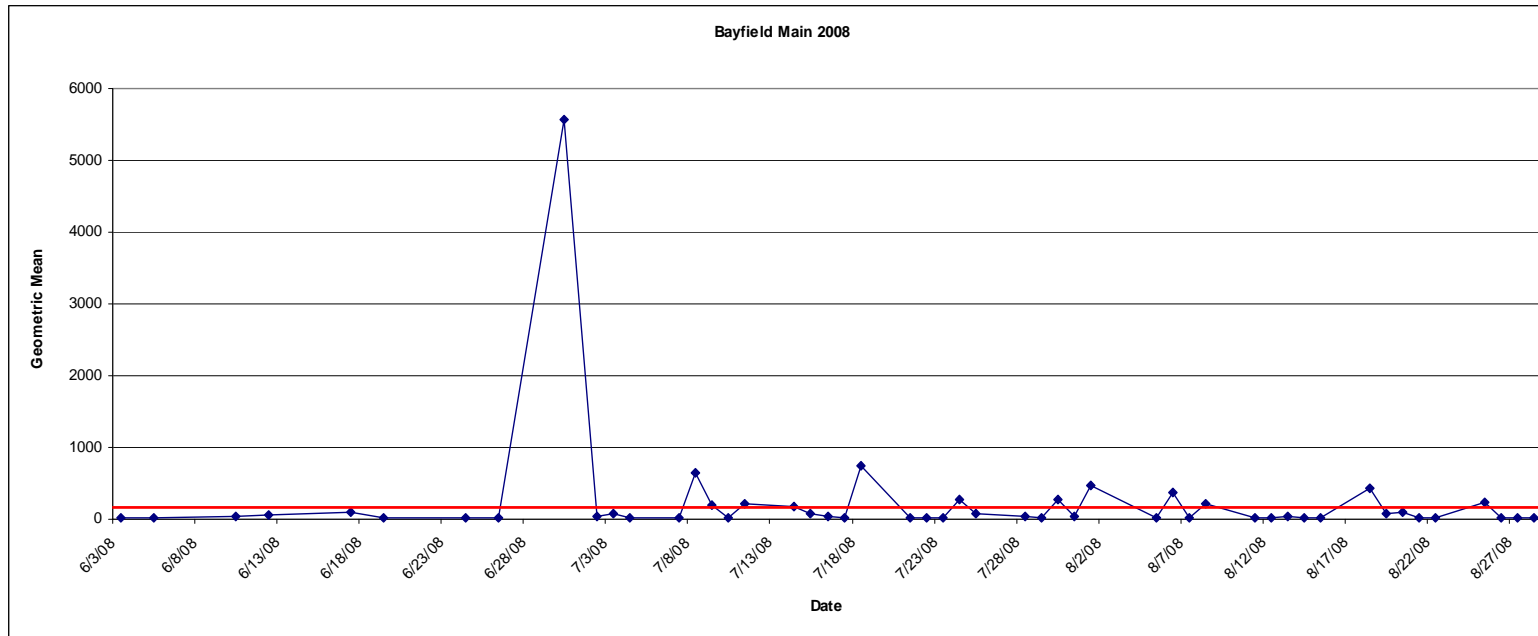
Date	Site 1	Site 2	Site 3	Site 4	Site 5	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
3-Jun-08	10	10	10	10	10	10	15.2	Slightly Turbid	Ripples	NE	Overcast	16	YES	YES	L	0	
5-Jun-08	10	10	10	10	10	10	14.8	Clear	Calm	SE	Partly Cloudy	17				0	Small birds flying overhead
10-Jun-08	20	20	40	40	40	30	18.8	Opaque	Ripples	SW	Overcast	18				0	
12-Jun-08	30	90	90	30	50	52	17.6	Clear	calm	SE	Overcast	18				0	
17-Jun-08	70	140	90	80	80	89	18.0	Opaque	Ripples	NW	Partly Cloudy	11	YES	YES	H	4	
19-Jun-08	10	10	10	10	10	10	13.0	Slightly Turbid	Ripples	SW	Overcast	12				0	
24-Jun-08	10	10	10	10	10	10	17.6	Slightly Turbid	Ripples	NE	Overcast	14				0	
26-Jun-08	10	10	10	30	10	12	19.9	Turbid	Ripples	SW	Overcast	22	YES		M	4	
30-Jun-08	6000	6000	5000	5000	6000	5578	18.0	Opaque	>1m	N	Overcast	17		YES	L	0	
2-Jul-08	50	60	20	30	40	37	20.0	Opaque	Rough	SW	Partly Cloudy	17				1	
3-Jul-08	160	90	60	130	30	80	21.0	Opaque	Rough	NW	Clear	18				0	
4-Jul-08	10	10	10	10	20	11	20.2	Opaque	Ripples	NE	Clear	11				0	
7-Jul-08	10	50	90	10	10	21	20.0	Turbid	Ripples	S	Partly Cloudy	20				35	
8-Jul-08	830	530	560	800	610	655	22.0	Turbid	Ripples	SW	Overcast	22				0	
9-Jul-08	240	170	150	220	200	193	20.7	Turbid	Roipples	SW	Overcast	20		YES	L	25	Birds are gulls
10-Jul-08	10	20	30	30	10	18	22.0	Clear	Ripples	SW	Clear	24				7	
11-Jul-08	170	280	400	170	150	217	20.7	Clear	calm	SE	Partly Cloudy	20	Yes	YES	L	4	
14-Jul-08	150	160	180	170	200	171	20.2	Slightly Turbid	Rough	SW	Clear					0	
15-Jul-08	40	110	110	50	100	75	22.0	Opaque	Ripples	SE	Clear	25				0	
16-Jul-08	80	10	40	30	110	40	22.0	Opaque	Rough	SW	Partly Cloudy	23				80	
17-Jul-08	40	10	20	30	20	22	23.0	Slightly Turbid	Ripples	SE	Clear	22		YES	L	0	
18-Jul-08	500	760	760	840	1000	753	23.2	Opaque	Rough	SE	Overcast	23		Yes	L	40	Birds are gulls
21-Jul-08	30	20	50	10	50	27	21.9	Clear	Ripples	S	Overcast	18	Yes	Yes	M	1	
22-Jul-08	30	20	10	30	10	18	22.5	Clear	Ripples	SE	Clear	22	YES	YES	H	0	
23-Jul-08	10	10	80	40	10	20	21.4	Clear	Calm	Ne	Overcast	17	YES	YES		41	
24-Jul-08	340	300	240	240	240	269	17.0	Slightly Turbid	Ripples	SE	Clear	20				0	
25-Jul-08	50	110	110	60	80	78	16.6	Clear	Rough	NE	Clear	20	YES	YES		0	
28-Jul-08	40	30	40	30	50	37	20.6	Turbid	Ripples		Clear	21				80	
29-Jul-08	80	10	10	10	10	15	22.0	Slightly Turbid	Ripples	SE	Clear	27				45	
30-Jul-08	120	220	240	530	460	274	21.8	Turbid	Ripples	SE	Overcast	20	YES	YES	L	3	
31-Jul-08	20	50	70	50	20	37		Clear	Ripples	SW	Clear	22	YES	YES		0	water thermometer broken
1-Aug-08	450	500	560	420	470	478		Clear	Calm	SE	Clear	20		Yes	L	35	
5-Aug-08	10	10	10	10	10	10	21.0	Clear	Ripples	SE	Clear	24				8	
6-Aug-08	330	400	480	330	370	378	21.6	Opaque	Rough	NW	Clear	18				8	
7-Aug-08	10	10	10	20	40	15	21.0	Slightly Turbid	Ripples	SE	Clear	21				12	

8-Aug-08	290	170	210	220	180	210	22.7	Opaque	>1m	NW	Clear	20				60	Birds are gulls
11-Aug-08	10	50	20	20	20	21	19.1	Slightly Turbid	Rough	NE	Clear	12	YES	YES	M	40	
12-Aug-08	10	10	10	10	30	12	18.4	Turbid	Ripples	NW	Clear	20		YES		20	
13-Aug-08	60	10	40	20	80	33	18.4	Turbid	Ripples	SW	Clear	19				30	
14-Aug-08	20	10	50	10	30	20	20.6	Clear	Calm	E	Clear	21				0	
15-Aug-08	10	10	10	30	40	16	19.3	Turbid	Calm	E	Clear	18				0	
18-Aug-08	660	620	390	490	200	435	21.7	Turbid	Rough		Clear	20				27	Birds are gulls
19-Aug-08	150	110	50	60	50	76	19.8	Opaque	Calm	NE	Clear	17	YES	YES		10	
20-Aug-08	90	70	100	100	140	98	18.3	Slightly Turbid	Ripples	SE	Clear	15		YES	L	11	Birds are gulls
21-Aug-08	30	10	10	20	10	14	19.7	Clear	Calm	SE	Clear	18				10	Gulls
22-Aug-08	10	100	10	10	20	18	20.2	Clear	Calm	SE	Clear					17	
25-Aug-08	260	280	420	140	170	236	19.2	Opaque	Rough	NE	Clear					17	
26-Aug-08	40	40	20	10	20	23	17.9	Slightly Turbid	Ripples	E	Clear	20				0	
27-Aug-08	10	20	10	10	30	14	17.9	Clear	Calm	SE	Clear					22	
28-Aug-08	20	10	10	10	10	11	18.6	Clear	Calm	NE	Cloudy	18				0	

**Legend**

Rainfall Values Determined by Environment Canada

Heavy H >0.75 cm/hour  
Moderate M 0.26-0.75 cm/hour  
Light L 0.0-0.25 cm/hour



Date	Geo Mean
3-Jun-08	10
5-Jun-08	10
10-Jun-08	30
12-Jun-08	52
17-Jun-08	89
19-Jun-08	10
24-Jun-08	10
26-Jun-08	12
30-Jun-08	<b>5578</b>
2-Jul-08	37
3-Jul-08	80
4-Jul-08	11
7-Jul-08	21
8-Jul-08	<b>655</b>
9-Jul-08	<b>193</b>
10-Jul-08	18
11-Jul-08	<b>217</b>
14-Jul-08	<b>171</b>
15-Jul-08	75
16-Jul-08	40
17-Jul-08	22
18-Jul-08	<b>753</b>
21-Jul-08	27
22-Jul-08	18
23-Jul-08	20
24-Jul-08	<b>269</b>
25-Jul-08	78
28-Jul-08	37
29-Jul-08	15
30-Jul-08	<b>274</b>
31-Jul-08	37
1-Aug-08	<b>478</b>
5-Aug-08	10
6-Aug-08	<b>378</b>
7-Aug-08	15
8-Aug-08	<b>210</b>
11-Aug-08	21
12-Aug-08	12
13-Aug-08	33
14-Aug-08	20
15-Aug-08	16
18-Aug-08	<b>435</b>
19-Aug-08	76
20-Aug-08	98
21-Aug-08	14
22-Aug-08	18
25-Aug-08	<b>236</b>
26-Aug-08	23
27-Aug-08	14
28-Aug-08	11

49.242607

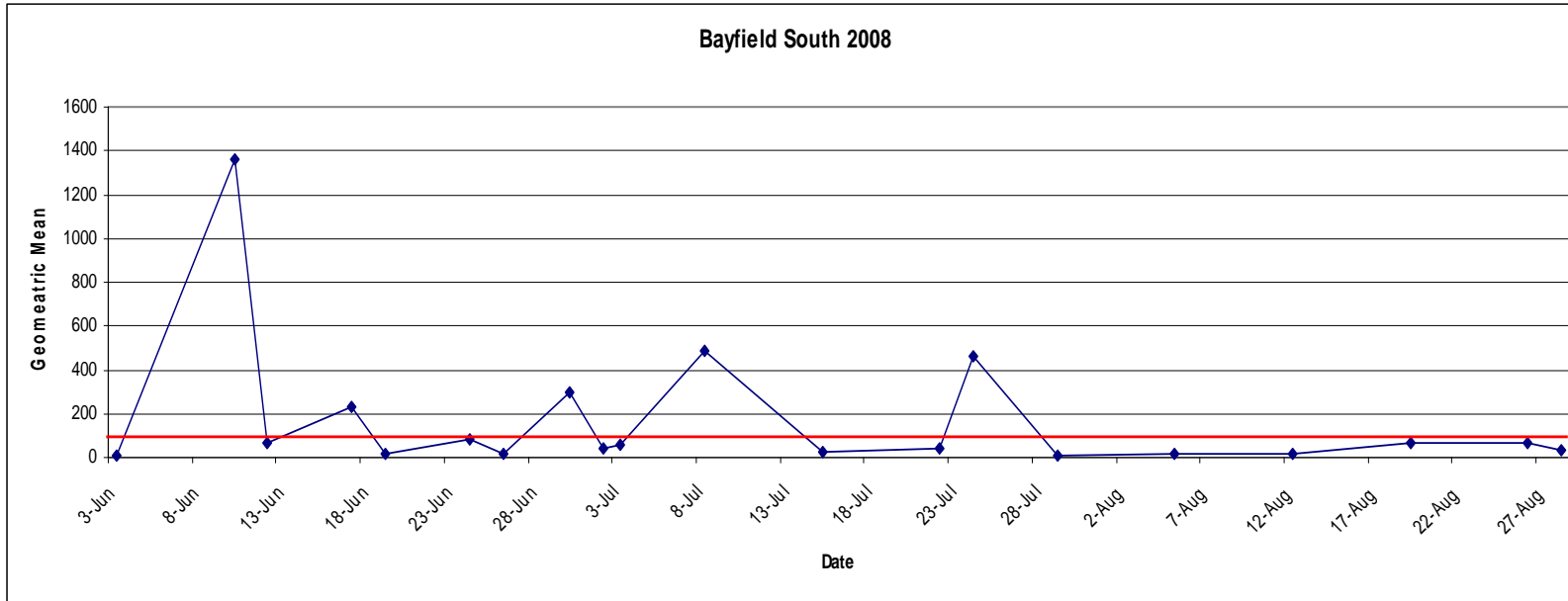
## Bayfield South 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
3-Jun-08	10	10	10	10	10	10	15	Opaque	Ripples	NE	Overcast	16	YES		L	15	Geese on shoreline and in water
10-Jun-08	2100	1600	3000	700	660	1360	19	Opaque	Rough	SW	Overcast	18				0	
12-Jun-08	10	30	80	190	280	66	18	Turbid	Calm	SE	Overcast	18				0	
17-Jun-08	240	230	250	250	180	228	18	Opaque	Rough	NW	Overcast	11	YES	YES	H	6	
19-Jun-08	20	10	10	10	30	14	13	Turbid	Ripples	SW	Overcast	12				20	
24-Jun-08	70	60	90	80	110	80	18	Turbid	Ripples	NE	Overcast	14				0	
26-Jun-08	10	10	30	40	30	20	20	Opaque	Ripples	SW	Overcast	22	YES		M	0	
30-Jun-08	420	670	220	130	270	293	17	Opaque	Rough	N	Overcast	18		YES	L	0	
3-Jul-08	50	100	40	30	80	54	20	Opaque	Rough	NW	Clear	18				20	
2-Jul-08	50	60	20	30	40	37	20	Opaque	Rough	SW	Partly Sunny	17				0	
8-Jul-08	540	630	530	400	390	490	22	Opaque	Ripples	SW	Overcast	22				0	
15-Jul-08	10	20	60	50	20	26	22	Turbid	Calm	SE	Clear	25				0	
22-Jul-08	90	40	110	20	20	44	23	Turbid	Ripples	SE	Clear	22	YES		H	0	
24-Jul-08	610	660	550	330	300	466	16	Opaque	Rough	SE	Clear	20	YES	YES	H	0	
29-Jul-08	20	10	10	10	10	11	22	Slightly Turbid	Calm	SE	Clear	27				0	
5-Aug-08	20	30	10	10	10	14	22	Clear	Ripples	SE	Clear	24				0	
12-Aug-08	20	10	20	30	10	16	19	Turbid	Rough	NW	Clear	20		YES	L	0	
19-Aug-08	150	50	60	30	80	64	20	Opaque	Ripples	NE	Clear	17	YES			2	
26-Aug-08	80	100	50	30	100	65	18	Slightly Turbid	Ripples	E	Clear	20				9	9 Gulls
28-Aug-08	10	10	30	160	90	34	19	Clear	Calm	NE	Overcast	18				0	

### Legend

Rainfall Values Determined by Environment Canada

Heavy	H	>0.75 cm/hour
Moderate	M	0.26-0.75 cm/hour
Light	L	0.0-0.25 cm/hour



Date	Geo Mean
3-Jun-08	10
10-Jun-08	1360
12-Jun-08	66
17-Jun-08	228
19-Jun-08	14
23-Jun-08	80
26-Jun-08	20
1-Jul-08	293
3-Jul-08	54
2-Jul-08	37
8-Jul-08	490
15-Jul-08	26
22-Jul-08	44
24-Jul-08	466
29-Jul-08	11
5-Aug-08	14
12-Aug-08	16
19-Aug-08	64
26-Aug-08	65
28-Aug-08	34

59.258093

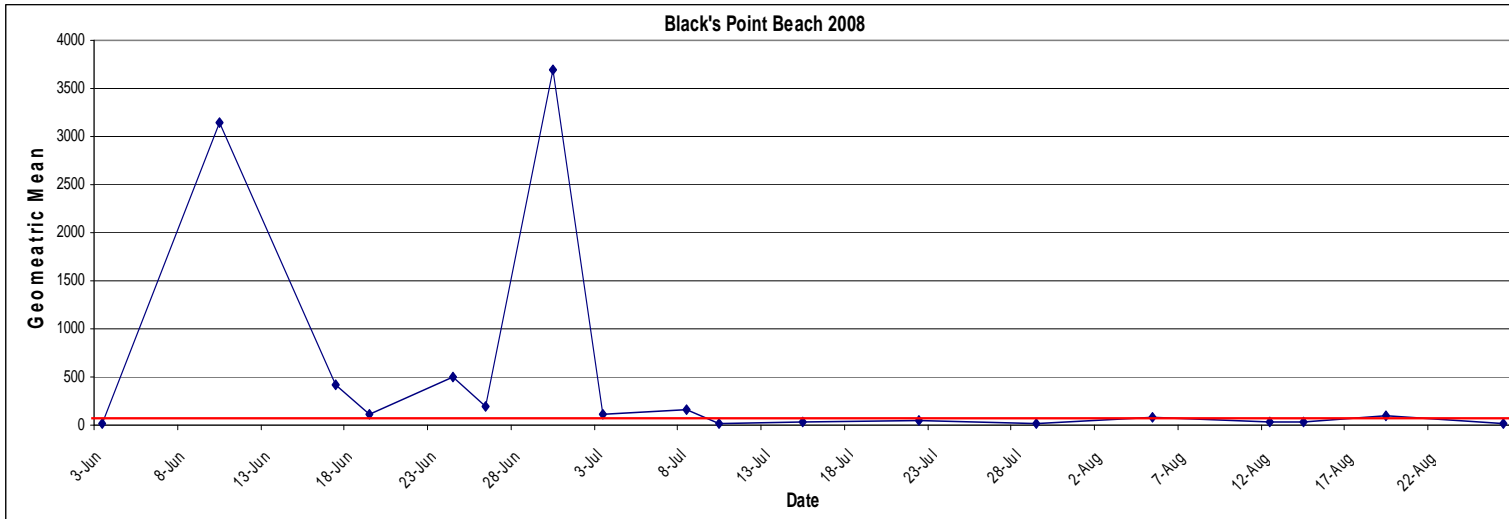
## Black's Point Beach 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
3-Jun-08	10	20	20	10	10	13	15.1	Opaque	Ripples	NE	Overcast	14	YES		M	4	
10-Jun-08	2900	3000	2200	4000	4000	3142	18.1	Opaque	Ripples	SW	Overcast	18	YES		H	0	Two outflows reached lake, water brown
17-Jun-08	400	680	110	200	2000	413	18.0	Opaque	Ripples	NW	Partly Cloudy	11	YES	YES	H	0	
19-Jun-08	90	120	80	270	80	113	9.9	Slightly Turbid	Ripples	SW	Partly Cloudy	12	YES		M	25	
24-Jun-08	230	760	750	650	350	495	18.4	Opaque	Ripples	NE	Overcast	15				0	
26-Jun-08	180	270	140	270	130	189	19.1	Opaque	Ripples	SW	Partly Cloudy	20	YES	YES	H	0	
30-Jun-08	2400	4500	3200	5000	4000	3698	18.0	Opaque	>1m	N	Overcast	17	YES	YES	H	0	
3-Jul-08	70	140	70	80	250	107	20.0	Opaque	Rough	NNW	Sunny	19	YES	YES	H	15	
8-Jul-08	160	160	200	130	130	154	22.0	Opaque	Ripples	SW	Overcast	22		YES	L	0	
10-Jul-08	20	10	20	10	10	13	21.0	Turbid	Ripples	SW	Clear	24	YES		H	0	
15-Jul-08	60	80	50	10	20	34	21.0	Turbid	Calm	SE	Clear	21				0	
22-Jul-08	70	50	40	40	30	44	23.0	Turbid	Ripples	SE	Clear	22	YES		H	0	
29-Jul-08	30	10	20	20	30	20	22.0	Slightly Turbid	Calm	SE	Clear	26				0	
5-Aug-08	40	50	80	140	130	78	21.0	Slightly Turbid	Calm	SE	Partly Cloudy	23				0	
12-Aug-08	10	200	30	50	30	39	17.0	Opaque	Rough	SW	Clear	20				16	
14-Aug-08	40	10	40	40	20	26	19.8	Clear	Ripples	E	Clear	20				10	Birds are gulls
19-Aug-08	30	190	100	120	140	99	20.1	Opaque	Ripples	NE	Clear	17	YES			2	
26-Aug-08	10	10	20	20	10	13	17.1	Clear	Ripples	E	Clear	20				15	Birds are gulls

### Legend

Rainfall Values Determined by Environment Canada

Heavy        H        >0.75 cm/hour  
 Moderate    M        0.26-0.75 cm/hour  
 Light        L        0.0-0.25 cm/hour



Date	Geo Mean
3-Jun-08	13
10-Jun-08	3142
17-Jun-08	413
19-Jun-08	113
23-Jun-08	495
26-Jun-08	189
1-Jul-08	3698
3-Jul-08	107
8-Jul-08	154
10-Jul-08	13
15-Jul-08	34
22-Jul-08	44
29-Jul-08	20
5-Aug-08	78
12-Aug-08	39
14-Aug-08	26
19-Aug-08	99
26-Aug-08	13

95.934374

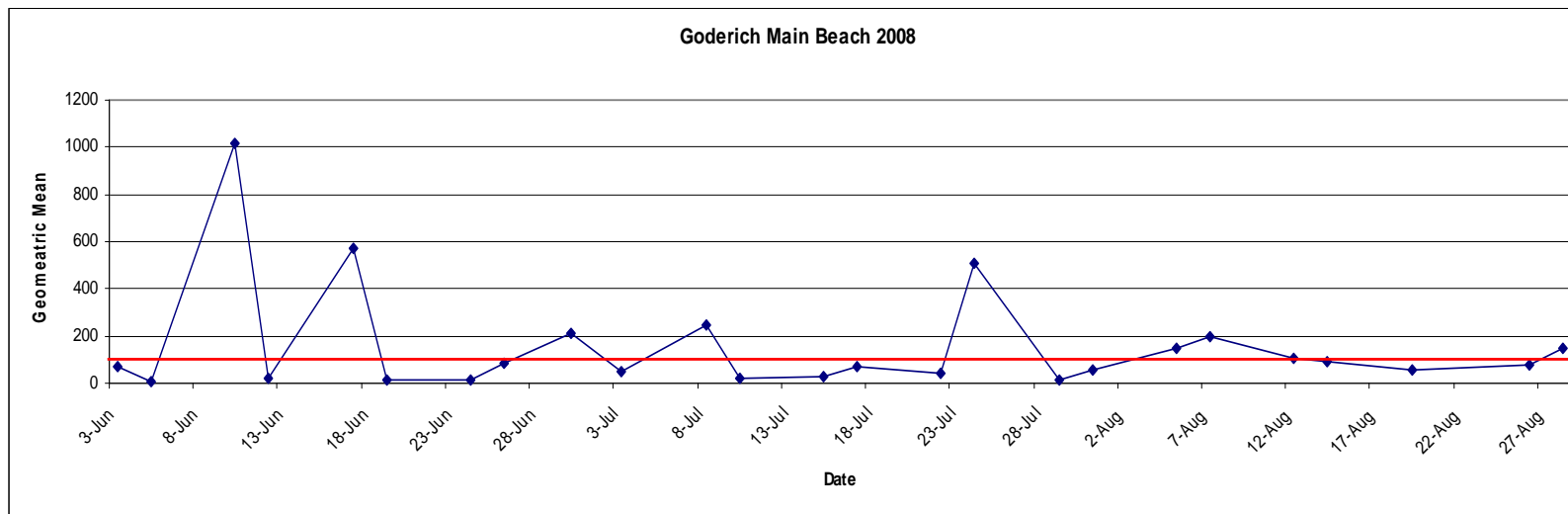
## Goderich Main Beach 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
3-Jun-08	10	80	90	120	190	70	14.3	Slightly Turbid	Ripples	NE	Overcast	16		YES	L	13	
5-Jun-08	10	10	10	10	10	10	14.1	Clear	Ripples	SE	Partly Cloudy	17		YES	L	7	
10-Jun-08	800	1000	1500	900	1000	1016	18.7	Opaque	Ripples	SW	Overcast	18	YES		M	0	Water is very dark, almost black
12-Jun-08	10	30	20	40	10	19	16.0	Clear	Calm	SE	Partly Cloudy	20				0	
17-Jun-08	30	2500	2100	570	680	572	17.0	Clear	Rough	NW	Overcast	11		YES	L	9	
19-Jun-08	20	10	10	40	20	17	13.9	Slightly Turbid	Ripples	SW	Overcast	14	YES		L	11	
24-Jun-08	10	10	10	30	20	14	17.6	Clear	Ripples	NE	Partly Cloudy	15				0	
26-Jun-08	90	70	190	70	60	87	16.6	Slightly Turbid	Ripples	SW	Clear	20	YES		L	29	Very Foggy
30-Jun-08	210	200	270	110	360	214	17.0	Opaque	Ripples	N	Overcast	17		YES	L	80	
3-Jul-08	10	30	60	150	100	49	21.0	Turbid	Ripples	NNW	Clear	18		YES	M	40	
8-Jul-08	410	330	440	150	100	246	21.0	Turbid	Ripples	SSW	Overcast	22				2	
10-Jul-08	60	10	10	60	20	24	20.0	Clear	Calm	SW	Clear	20		YES	H	40	
15-Jul-08	70	30	10	30	40	30	21.0	Slightly Turbid	Ripples	SE	Clear	20				35	
17-Jul-08	90	70	70	80	60	73	21.0	Clear	Ripples	SE	Clear	21		YES	M	65	
22-Jul-08	160	70	10	50	30	44	22.6	Clear	Calm	SE	Clear	22	YES		H	0	
24-Jul-08	60	1200	1100	670	660	512	16.0	Slightly Turbid	Calm	SE	Clear	18		YES	H	0	
29-Jul-08	10	10	10	30	30	16	22.0	Clear	Calm	SE	Clear	26				55	
31-Jul-08	100	30	40	50	90	56		Clear	Calm	SW	Clear	21		YES	H	55	
5-Aug-08	120	210	220	180	80	152	21.6	Clear	Rough	SE	Partly Cloudy	22				11	gulls
7-Aug-08	540	190	290	130	80	199	20.8	Clear	Calm	SE	Clear	21				160	60 geese, 100 gulls
12-Aug-08	80	120	100	140	90	104	19.0	Slightly Turbid	Ripples	NW	Clear	20		YES	L	35	
14-Aug-08	110	50	210	180	30	91	18.8	Clear	Calm	E	Clear	18				40	28 gulls, 12 geese
19-Aug-08	40	40	50	80	80	55	19.9	Clear	Calm	NE	Clear	17	YES		M	4	
26-Aug-08	120	150	40	20	200	78	18.2	Clear	Calm	E	Clear					41	36 gulls and 5 geese
28-Aug-08	50	80	190	370	270	150	18.9	Clear	Calm	NE	Overcast	18				0	

### Legend

Rainfall Values Determined by Environment Canada

Heavy        H    >0.75 cm/hour  
 Moderate    M    0.26-0.75 cm/hour  
 Light        L    0.0-0.25 cm/hour



Date	Geo Mean
3-Jun-08	70
5-Jun-08	10
10-Jun-08	<b>1016</b>
12-Jun-08	19
17-Jun-08	<b>572</b>
19-Jun-08	17
23-Jun-08	14
26-Jun-08	87
1-Jul-08	<b>214</b>
3-Jul-08	49
8-Jul-08	<b>246</b>
10-Jul-08	24
15-Jul-08	30
17-Jul-08	73
22-Jul-08	44
24-Jul-08	<b>512</b>
29-Jul-08	16
31-Jul-08	56
5-Aug-08	<b>152</b>
7-Aug-08	<b>199</b>
12-Aug-08	<b>104</b>
14-Aug-08	91
19-Aug-08	55
26-Aug-08	78
28-Aug-08	<b>150</b>

75.15235

## Goderich Rotary Cove 2008

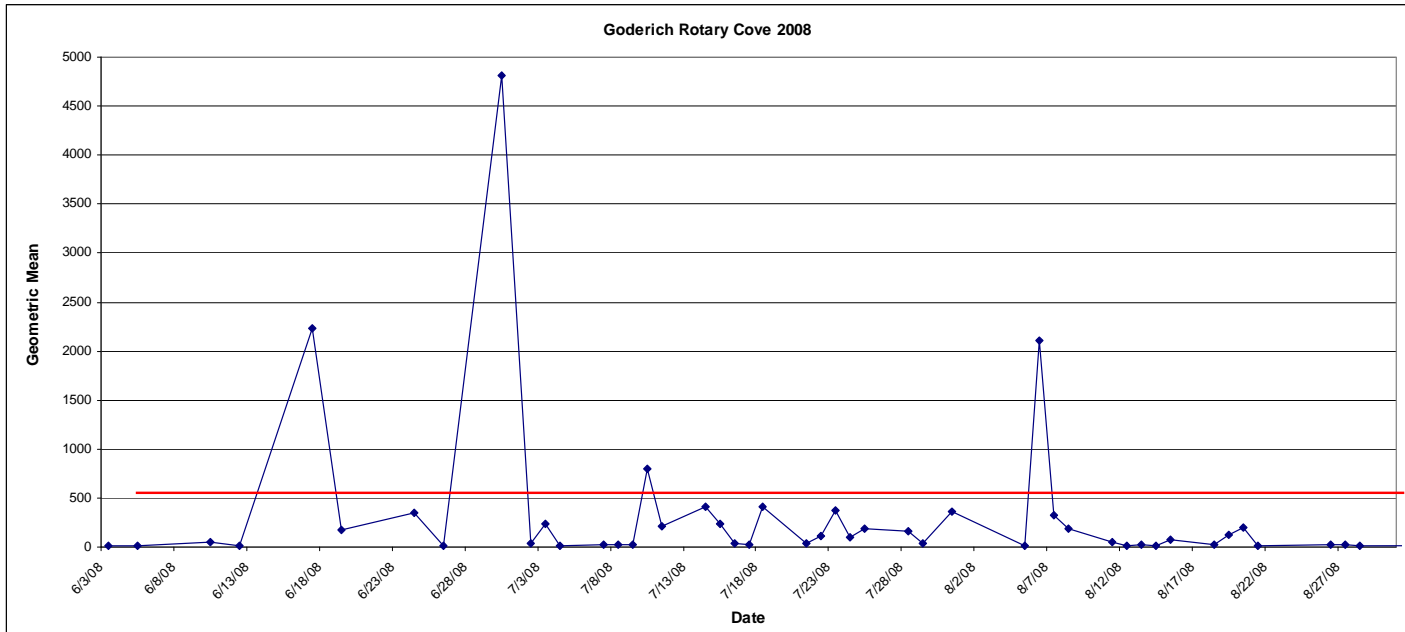
Date	Site 1	Site 2	Site 3	Site 4	Site 5	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
3-Jun-08	10	10	10	20	30	14	14.3	Slightly Turbid	Ripples	NE	Overcast	14		YES	L	0	
5-Jun-08	10	10	10	10	10	10	13.8	Clear	Ripples	SE	Partly Cloudy	17		YES	L	6	
10-Jun-08	410	40	70	20	10	47	19.0	Slightly Turbid	Ripples	SW	Overcast	18	YES		M	23	
12-Jun-08	10	10	10	10	10	10	16.2	Clear	Calm	SE	Partly Cloudy	20				35	Geese are located off the main beach to the right
17-Jun-08	1400	2800	2200	2500	2600	2237	16.5	Opaque	Rough	NW	Overcast	11		YES	L	95	Lots of debris floating in water
19-Jun-08	670	570	250	90	20	177	12.9	Turbid	Ripples	SW	Overcast	16	YES		L	25	One bat found on beach
24-Jun-08	100	440	480	360	630	344	18.3	Turbid	Ripples	NE	Overcast	15				56	
26-Jun-08	10	20	10	10	10	11	18.7	Clear	Calm	SW	Partly Cloudy	20	YES		L	100	
30-Jun-08	5000	4500	4500	5000	5100	4813	17.0	Opaque	Rough	N	Overcast	18		yes	L	6	
2-Jul-08	100	120	20	20	20	39	20.0	Turbid	Ripples	SW	Partly Cloudy	17				44	
3-Jul-08	180	210	270	250	300	238	20.0	Opaque	Rough	NW	Clear	18		YES	M	12	Gulls
4-Jul-08	10	10	10	20	10	11	20.0	Turbid	Calm	NE	Clear	11				16	Straw floating in water, Gulls
7-Jul-08	10	10	40	50	20	21	19.7	Clear	Calm	S	Partly Cloudy	20				103	
8-Jul-08	90	40	20	10	40	31	22.0	Clear	Calm	SW	Overcast	22	YES			30	
9-Jul-08	60	20	30	20	20	27	20.0	Slightly Turbid	Ripples	SW	Overcast	22				10	Gulls
10-Jul-08	4000	800	840	610	190	792	20.0	Slightly Turbid	Ripples	SW	Clear	20		YES	H	112	
11-Jul-08	170	280	400	170	150	217	20.7	Clear	Calm	SE	Partly Cloudy	20	YES		L	4	
14-Jul-08	390	520	380	370	420	413	20.4	Opaque	Rough		Clear	18				20	
15-Jul-08	270	340	220	190	220	243	21.0	Turbid	Calm	SE	Clear	20				15	
16-Jul-08	50	40	20	20	80	36	21.7	Turbid	Calm	SW	Clear	23				15	
17-Jul-08	20	20	60	10	10	19	22.0	Clear	Calm	SE	Clear	21		YES	L	120	
18-Jul-08	1200	3000	300	170	60	406	22.6	Clear	Calm	SE	Overcast	23		YES	H	22	
21-Jul-08	20	30	60	80	20	36	21.9	Clear	Calm	S	Cloudy	18	YES			70	Gulls & Geese,; bird feathers floating on water
22-Jul-08	80	110	470	70	50	108	22.9	Turbid	Ripples	SE	Clear	22	YES	yes	H	1	
23-Jul-08	480	270	380	280	540	375	20.7	Clear	Ripples		Overcast	16	YES		M	1	
24-Jul-08	50	320	80	120	70	101	16.0	Opaque	Rough	NE	Clear	18		YES	H	2	
25-Jul-08	920	110	290	60	120	184	15.6	Turbid	Calm	NE	Clear	20		YES	M	2	
28-Jul-08	150	160	190	100	230	160	20.4	Turbid	Calm		Clear	21				40	
29-Jul-08	20	40	20	70	40	34	21.0	Clear	Calm	SE	Clear	20				55	
30-Jul-09	260	90	100	70	60	100	21.2	Clear	Calm		Partly Cloudy	20	YES		M	30	Geese

31-Jul-08	390	410	370	330	330	365		Turbid	Ripples	SW	Clear	21		yes	H	2	
5-Aug-08	10	10	30	10	10	12	22.3	Clear	Calm	SE	Partly Cloudy	23				23	Birds are gulls/ Large amounts of straw and algae on shore
6-Aug-08	2300	1600	2000	2800	2000	2104	22.6	Opaque	>1m	NW	Clear	20				3	Gulls
7-Aug-08	420	500	290	260	210	319	20.6	Opaque	Rough	SE	Clear	21				42	
8-Aug-08	300	180	150	170	190	192	21.2	Opaque	>1m	NW	Clear	20				70	30 geese, 40 gulls
11-Aug-08	90	40	50	40	60	53	17.2	Opaque	Rough	NE	Clear	11	YES		L	12	
12-Aug-08	30	40	10	10	10	16	18.0	Slightly Turbid	Ripples	NW	Clear	20		YES		12	
13-Aug-08	40	20	10	10	30	19	18.8	Slightly Turbid	Calm	SW	Clear	19				5	
14-Aug-08	10	10	20	30	30	18	18.8	Slightly Turbid	Calm	SW	Clear	19				5	
15-Aug-08	170	40	60	70	70	72	18.3	Slightly Turbid	Calm	E	Clear	18				0	
18-Aug-08	70	20	50	10	10	23	20.7	Clear	Ripples		Partly Cloudy	20				30	Birds are gulls
19-Aug-08	140	110	160	80	140	123	20.1	Slightly Turbid	Rough	NE	Clear	17	YES			2	
20-Aug-08	260	130	240	220	200	204	17.9	Turbid	Ripples	SE	Clear	14		YES	H	27	23 gulls, 4 geese
21-Aug-08	20	10	10	10	20	13	19.1	Clear	Calm	SE	Clear	14				2	
26-Aug-08	30	20	30	40	40	31	18.9	Clear	Calm	E	Clear	13				0	Large amounts of straw on entire beach
27-Aug-08	30	10	20	40	10	19	18.1	Slightly Turbid	Calm	SE	Clear	12				20	
28-Aug-08	10	10	10	10	50	14	18.6	Clear	Calm	NE	Overcast	18				0	

### Legend

Rainfall Values Determined by Environment Canada

Heavy      H      >0.75 cm/hour  
Moderate   M      0.26-0.75 cm/hour  
Light        L      0.0-0.25 cm/hour



Date	Geo Mean
3-Jun-08	14
5-Jun-08	10
10-Jun-08	47
12-Jun-08	10
17-Jun-08	<b>2237</b>
19-Jun-08	<b>177</b>
24-Jun-08	<b>344</b>
26-Jun-08	11
30-Jun-08	<b>4813</b>
2-Jul-08	39
3-Jul-08	<b>238</b>
4-Jul-08	11
7-Jul-08	21
8-Jul-08	31
10-Jul-08	27
10-Jul-08	<b>792</b>
11-Jul-08	<b>217</b>
14-Jul-08	<b>413</b>
15-Jul-08	<b>243</b>
16-Jul-08	36
17-Jul-08	19
18-Jul-08	<b>406</b>
21-Jul-08	36
22-Jul-08	<b>108</b>
23-Jul-08	<b>375</b>
24-Jul-08	<b>101</b>
25-Jul-08	<b>184</b>
28-Jul-08	<b>160</b>
29-Jul-08	34
30-Jul-08	<b>100</b>
31-Jul-08	<b>365</b>
5-Aug-08	12
6-Aug-08	<b>2104</b>
7-Aug-08	<b>319</b>
8-Aug-08	<b>192</b>
11-Aug-08	53
12-Aug-08	16
13-Aug-08	19
14-Aug-08	18
15-Aug-08	72
18-Aug-08	23
19-Aug-08	<b>123</b>
20-Aug-08	<b>204</b>
21-Aug-08	13
26-Aug-08	31
27-Aug-08	19
28-Aug-08	14

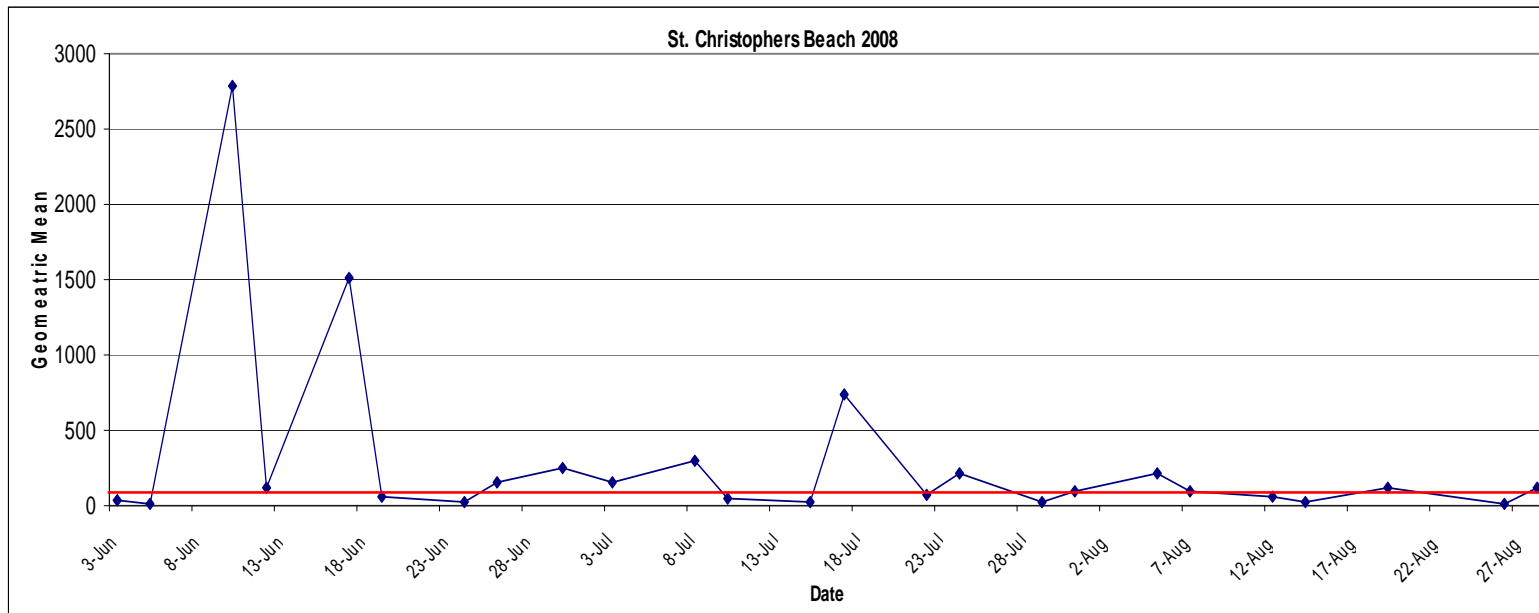
## St. Christopher's Beach 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
3-Jun-08	10	10	10	20	2800	35	14.3	Slightly Turbid	Ripples	NE	Overcast	16		YES	L	0	Lots of Algae on rocks
5-Jun-08	10	10	10	10	70	15	14.2	Clear	Calm	SE	Partly Cloudy	17		YES	L	2	Water near storm drain is darker blackish
10-Jun-08	1800	2300	3500	2800	4100	2781	19.0	Opaque	Ripples	SW	Overcast	18	YES		M	3	All water very black
12-Jun-08	10	50	220	320	550	114	16.0	Slightly Turbid	Calm	SE	Partly Cloudy	20				0	
17-Jun-08	10000	10000	450	510	350	1517	17.0	Opaque	Rough	NW	Overcast	11		YES	L	0	
19-Jun-08	60	70	80	50	40	58	12.9	Slightly Turbid	Ripples	SW	Overcast	16	YES		L	32	
24-Jun-08	10	10	40	30	80	25	18.0	Clear	Ripples	NE	Partly Cloudy	15				0	
26-Jun-08	200	150	150	80	220	151	18.9	Clear	Ripples	SW	Partly Cloudy	20	YES		L	0	
30-Jun-08	630	200	190	220	200	254	17.0	Opaque	Rough	N	Overcast	18		YES	L	0	
3-Jul-08	110	180	160	120	280	160	20.2	Opaque	Ripples	NNW	Clear	18		YES	M	60	
8-Jul-08	290	450	270	190	340	296	22.0	Turbid	Ripples	SSW	Overcast	22				0	
10-Jul-08	40	30	60	30	110	47	21.0	Clear	Calm	SW	Clear	20		YES	H	20	
15-Jul-08	10	20	20	20	80	23	21.0	Slightly Turbid	Calm	SE	Clear	20				0	
17-Jul-08	630	1100	1100	350	830	740	22.0	Clear	Calm	SE	Clear	21		YES	M	0	
22-Jul-08	20	60	100	120	100	68	22.9	Clear	Ripples	SE	Clear	22	YES		H	0	
24-Jul-08	270	330	80	170	350	212	16.0	Slightly Turbid	Calm	NE	Clear	18		YES	H	0	
29-Jul-08	10	20	20	30	50	23	20.0	Clear	Calm	SE	Clear	22				0	
31-Jul-08	70	90	90	100	150	97		Clear	Calm	SW	Clear	21		YES	H	0	
5-Aug-08	120	250	280	150	330	211	21.7	Clear	Ripples	SE	Partly Cloudy	23				0	
7-Aug-08	90	70	110	90	120	94	21.1	Clear	Ripples	SE	Clear	21				60	birds are geese
12-Aug-08	300	660	10	20	20	60	18.6	Slightly Turbid	Ripples	NW	Clear	20		YES		0	
14-Aug-08	30	20	20	10	40	22	19.1	Clear	Calm	E	Clear	20				3	Birds are geese
19-Aug-08	110	110	70	140	180	116	20.0	Slightly Turbid	Calm	NE	Clear	17	YES			20	
26-Aug-08	10	40	10	30	10	16	18.9	Clear	Calm	E	Clear	18				8	
28-Aug-08	30	70	120	280	310	117	18.7	Slightly Turbid	Calm	NE	Overcast	18				0	

### Legend

Rainfall Values Determined by Environment Canada

Heavy H >0.75 cm/hour  
 Moderate M 0.26-0.75 cm/hour  
 Light L 0.0-0.25 cm/hour



Date	Geo Mean
3-Jun-08	35
5-Jun-08	15
10-Jun-08	2781
12-Jun-08	114
17-Jun-08	1517
19-Jun-08	58
23-Jun-08	25
26-Jun-08	151
1-Jul-08	254
3-Jul-08	160
8-Jul-08	296
10-Jul-08	47
15-Jul-08	23
17-Jul-08	740
22-Jul-08	68
24-Jul-08	212
29-Jul-08	23
31-Jul-08	97
5-Aug-08	211
7-Aug-08	94
12-Aug-08	60
14-Aug-08	22
19-Aug-08	116
26-Aug-08	16
28-Aug-08	117

99.933138

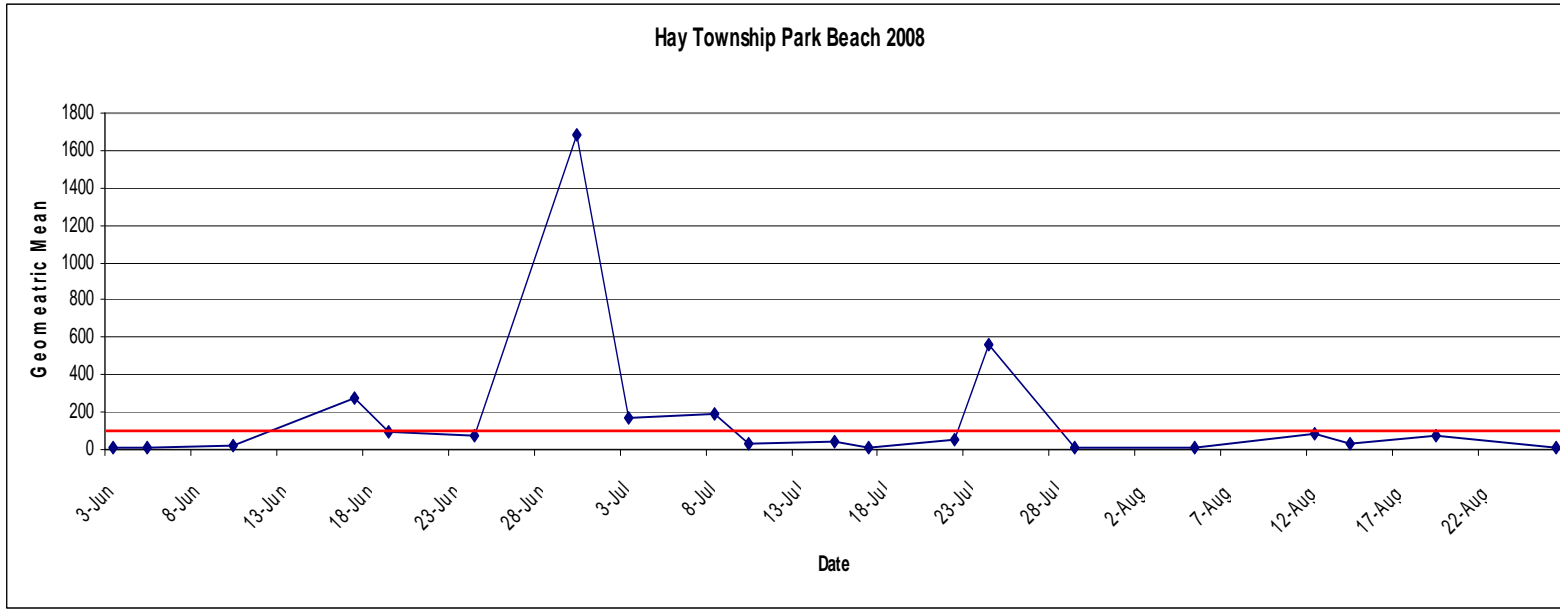
## Hay Township Park Beach 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
3-Jun-08	10	10	10	10	10	160	16	16	Opaque	Ripples	NE	Overcast	16	YES		M	0	
5-Jun-08	10	10	10	10	10	150	16	15	Clear	Calm	SE	Partly Cloudy	16				0	
10-Jun-08	10	10	20	10	10	160	18	19	Turbid	Ripples	SW	Overcast	18	YES	YES	H	0	
17-Jun-08	370	250	330	220	250	290	280	17	Opaque	Rough	NW	Overcast	11		YES	H	0	
19-Jun-08	50	70	70	90	150	170	91	16	Opaque	Ripples	SW	Partly Cloudy	12	YES	YES	H	0	
24-Jun-08	80	100	70	40	70	80	71	19	Slightly Turbid	Ripples	NE	Overcast	14		YES	L	0	
30-Jun-08	1400	2000	1600	1000	1700	3000	1685	18	Turbid	>1m	N	Overcast	18	YES	YES	H	0	
3-Jul-08	140	190	210	240	120	140	168	21	Opaque	Rough	NW	Clear	18	YES		H	0	
8-Jul-08	1600	1500	60	50	70	90	189	22	Turbid	Ripples	SW	Overcast	22				0	
10-Jul-08	10	20	20	10	50	730	34	22	Slightly Turbid	Ripples	SW	Clear	25				0	
15-Jul-08	30	40	20	10	10	1500	39	23	Opaque	Calm	SE	Clear	25				0	
17-Jul-08	10	10	10	20	30		14	23	Slightly Turbid	Calm	SE	Clear	26	YES		M	0	
22-Jul-08	10	100	50	80	80		50	23	Opaque	Ripples	SE	Clear	22	YES			0	
24-Jul-08	480	480	640	550	680		560	17	Opaque	Ripples	NE	Clear	21	YES			0	
29-Jul-08	10	10	10	10	10		10	22	Slightly Turbid	Calm	SE	Clear	27				0	
5-Aug-08	10	10	10	40	10		13	21	Clear	Calm	SE	Overcast	21				0	
12-Aug-08	70	100	100	80	70		83	19	Opaque	Ripples	NW	Clear	20		YES		2	
14-Aug-08	40	40	20	70	20		34	21	Opaque	Ripples	E	Clear	22				0	
19-Aug-08	60	50	130	70	60		70	20	Opaque	Rough	NE	Clear	18	YES			2	
26-Aug-08	10	10	10	10	10		10	18	Turbid	Ripples	E	Clear	22				0	

### Legend

Rainfall Values Determined by Environment Canada

Heavy	H	>0.75 cm/hour
Moderate	M	0.26-0.75 cm/hour
Light	L	0.0-0.25 cm/hour



Date	Geo Mean
3-Jun-08	16
5-Jun-08	16
10-Jun-08	18
17-Jun-08	280
19-Jun-08	91
23-Jun-08	71
1-Jul-08	1685
3-Jul-08	168
8-Jul-08	189
10-Jul-08	34
15-Jul-08	39
17-Jul-08	14
22-Jul-08	50
24-Jul-08	560
29-Jul-08	10
5-Aug-08	13
12-Aug-08	83
14-Aug-08	34
19-Aug-08	70
26-Aug-08	10

54.757137

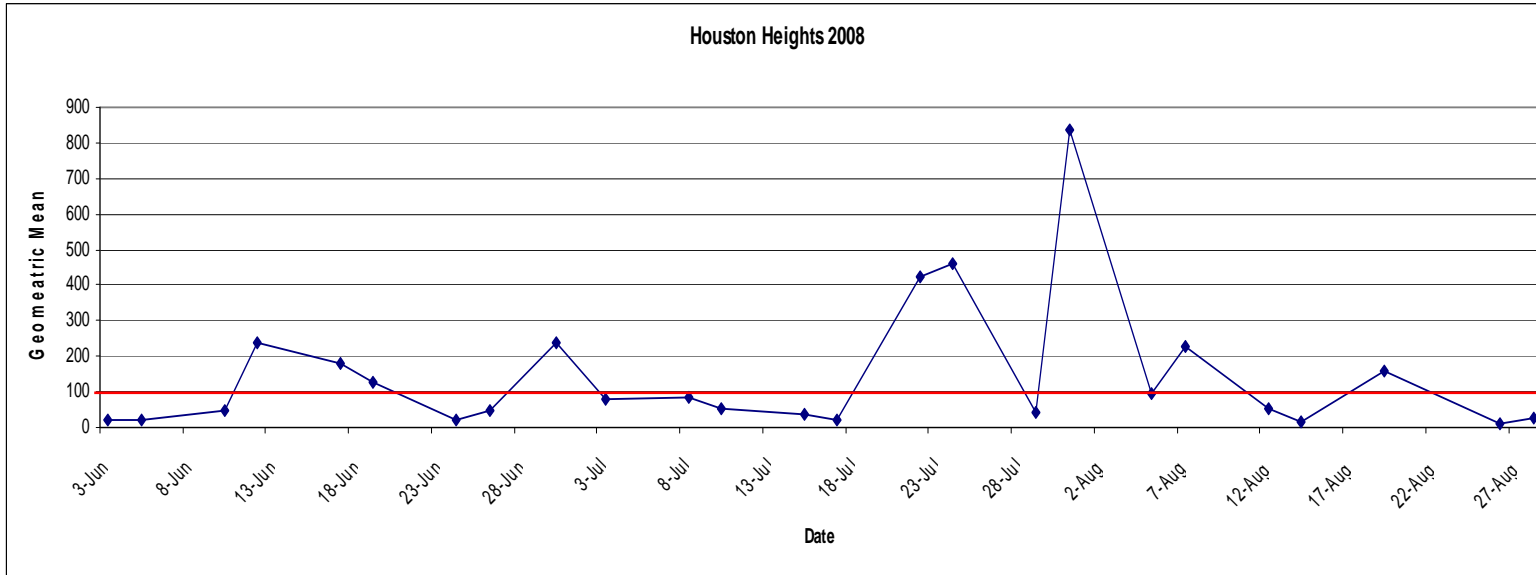
## Houston Heights 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
3-Jun-08	20	10	10	10	10	760	23	15	Opaque	Ripples	NE	Overcast	16		YES	L	0	
5-Jun-08	40	10	10	10	10	130	19	15	Clear	Calm	SE	Partly Cloudy	17				0	
10-Jun-08	40	10	20	70	20	810	46	19	Turbid	Rough	SW	Overcast	18	YES	YES	H	0	Water has a musty smell
12-Jun-08	220	250	220	150	220	430	236	18	Opaque	Calm	SE	Overcast	17	YES		H	0	
17-Jun-08	70	170	190	240	230	290	182	17	Opaque	Rough	NW	Partly Cloudy	11	YES		H	0	
19-Jun-08	100	80	150	140	130	190	127	14	Turbid	Ripples	SW	Overcast	12				0	
24-Jun-08	20	10	10	10	10	550	22	19	Turbid	Ripples	NE	Overcast	16				0	
26-Jun-08	40	50	30	20	60	180	48	20	Opaque	Ripples	SW	Clear	23	YES		L	0	
30-Jun-08	170	300	220	230	190	350	236	18	Opaque	>1m	N	Overcast	18				0	
3-Jul-08	30	70	110	60	50	340	79	20	Opaque	>1m	NW	Clear	18				3	
8-Jul-08	190	110	130	10	130	100	84	22	Turbid	Ripples	SW	Overcast	22				0	
10-Jul-08	50	10	30	60	210	100	52	21	Turbid	Ripples	SW	Clear	25				25	
15-Jul-08	30	40	50	10	10	490	38	22	Turbid	Ripples	SE	Clear	25				0	
17-Jul-08	10	20	10	10	10	450	21	23	Turbid	Ripples	SE	Clear	26				0	
22-Jul-08	240	280	700	610	360	550	422	23	Turbid	Ripples	SE	Clear	22	YES		H	0	
24-Jul-08	260	550	480	420	700		458	17	Opaque	Ripples	NE	Clear	21		YES	H	0	
29-Jul-08	10	20	410	20	10	360	43	23	Slightly Turbid	Ripples	SE	Clear	27				0	
31-Jul-08	3100	1100	570	540	670	480	834		Opaque	Rough	SW	Clear	24		YES	H	0	
5-Aug-08	60	130	120	40	30	710	96	22	Clear	Calm	SE	Clear	24				200	Gulls in and out of the water
7-Aug-08	160	130	100	240	250	1100	227	21	Turbid	Rough	SE	Clear	22					
12-Aug-08	30	80	40	80	60		54	19	Opaque	Ripples	NW	Clear	20		YES	L	0	
14-Aug-08	10	10	10	10	10	310	18	20	Turbid	Ripples	E	Clear	21				0	
19-Aug-08	110	90	150	190	140	400	158	20	Opaque	Ripples	NE	Clear	17	YES		L	2	
26-Aug-08	10	10	10	10	20	10	11	19	Slightly Turbid	Ripples	E	Clear	22				65	Gulls off main beach
28-Aug-08	10	10	30	40	10	180	24	19	Clear	Calm	NE	Overcast	18				0	

### Legend

Rainfall Values Determined by Environment Canada

Heavy H >0.75 cm/hour  
 Moderate M 0.26-0.75 cm/hour  
 Light L 0.0-0.25 cm/hour



Date	Geo Mean
3-Jun-08	23
5-Jun-08	19
10-Jun-08	46
12-Jun-08	236
17-Jun-08	182
19-Jun-08	127
23-Jun-08	22
26-Jun-08	48
1-Jul-08	236
3-Jul-08	79
8-Jul-08	84
10-Jul-08	52
15-Jul-08	38
17-Jul-08	39
22-Jul-08	422
24-Jul-08	458
29-Jul-08	43
31-Jul-08	834
5-Aug-08	96
7-Aug-08	227
12-Aug-08	54
14-Aug-08	18
19-Aug-08	158
26-Aug-08	11
28-Aug-08	24

75.460286

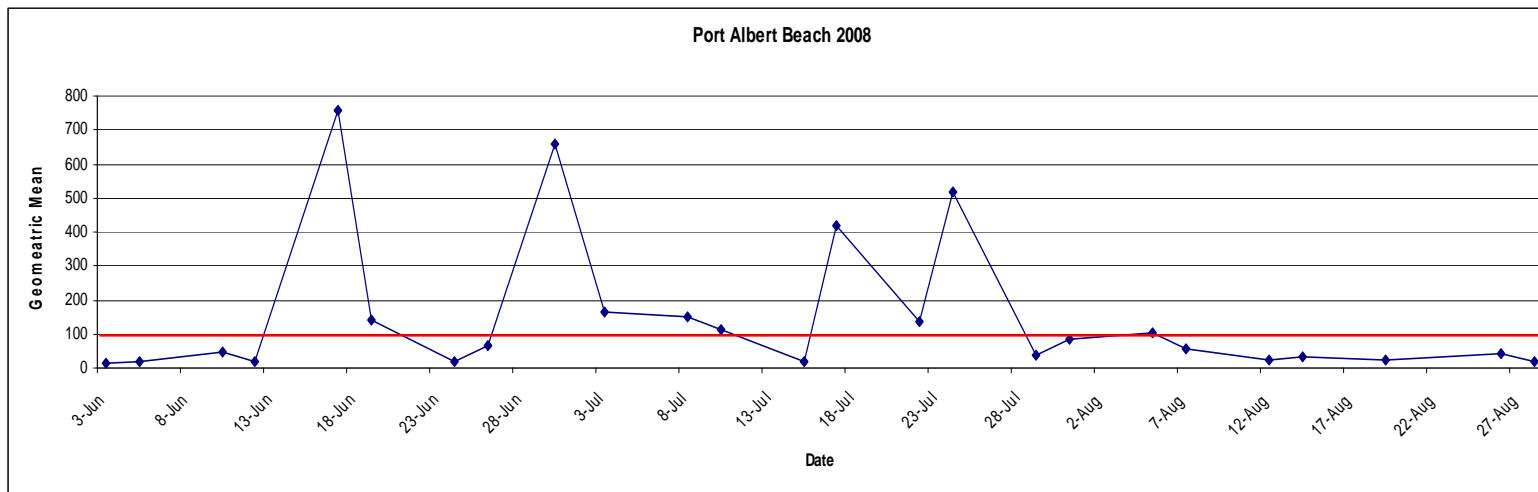
## Port Albert Beach 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
3-Jun-08	10	10	10	10	10	160	16	14	Turbid	Ripples	NE	Overcast	16				35	Some geese on beach and some in water
5-Jun-08	10	10	20	20	10	220	21	14	Turbid	Ripples	SE	Partly Cloudy	20				22	Geese in stream adjacent to beach area
10-Jun-08	30	10	20	40	30	1900	49	19	Opaque	Ripples	SW	Overcast	18	YES		H	0	River outflow into water making water very brown
12-Jun-08	10	10	10	10	10	550	20	16	Clear	Ripples	SE	Clear	21				2	
17-Jun-08	610	800	700	680	820	1000	759	16	Opaque	Rough	NW	Overcast	11		YES	H	0	
19-Jun-08	100	120	130	170	190	170	143	15	Opaque	Ripples	SW	Overcast	14				2	
24-Jun-08	20	10	10	10	30	100	20	18	Opaque	Ripples	NE	Partly Cloudy	18				0	
26-Jun-08	90	100	40	80	40		65	19	Slightly Turbid	Ripples	SW	Clear	20				0	
30-Jun-08	400	430	900	2300	630	370	660	18	Opaque	>1m	N	Overcast	18				0	
3-Jul-08	120	230	130	160	210	170	165	19	Opaque	Rough	NNW	Clear	18				0	
8-Jul-08	90	190	130	260	70	290	151	21	Turbid	Ripples	SSW	Overcast	22				20	
10-Jul-08	20	80	120	100	220	520	114	20	Turbid	Rough	SW	Clear	16				7	
15-Jul-08	10	20	10	10	10	410	21	20	Turbid	Ripples	SE	Clear	20				0	
17-Jul-08	300	620	410	410	410		418	22	Turbid	Ripples	SE	Clear	21	YES		H	0	
22-Jul-08	120	110	130	170	30	770	137	22	Clear	Ripples	SE	Overcast	21		YES	H	0	
24-Jul-08	450	540	550	580	480		518	18	Opaque	Ripples	NE	Clear	18		YES	H	8	
29-Jul-08	30	30	30	30	20	240	40	20	Clear	Calm	SE	Clear	20				0	
31-Jul-08	40	160	100	60	30	350	86		Opaque	Ripples	SW	Clear	19				1	
5-Aug-08	120	70	70	30	60	1100	103	21	Clear	Ripples	SE	Clear	20				30	birds are geese
7-Aug-08	10	30	40	70	70	460	55	21	Opaque	Rough	SE	Clear	20				0	
12-Aug-08	10	50	10	10	10	600	26	17	Opaque	Ripples	NW	Clear	17				0	
14-Aug-08	10	10	10	10	280	350	32	18	Clear	Ripples	E	Clear	18				0	
19-Aug-08	10	10	10	20	20	360	23	19	Slightly Turbid	Ripples	NE	Clear	17	YES			20	
26-Aug-08	30	30	10	50	60	250	43	18	Slightly Turbid	Calm	E	Clear	12				11	
28-Aug-08	10	10	10	10	10	260	17	19	Clear	Ripples	NE	Partly Cloudy	18				0	

### Legend

Rainfall Values Determined by Environment Canada

Heavy H >0.75 cm/hour  
 Moderate M 0.26-0.75 cm/hour  
 Light L 0.0-0.25 cm/hour



Date	Geo Mean
3-Jun-08	16
5-Jun-08	21
10-Jun-08	49
12-Jun-08	20
17-Jun-08	759
19-Jun-08	143
23-Jun-08	20
26-Jun-08	65
1-Jul-08	660
3-Jul-08	165
8-Jul-08	151
10-Jul-08	114
15-Jul-08	21
17-Jul-08	418
22-Jul-08	137
24-Jul-08	518
29-Jul-08	40
31-Jul-08	86
5-Aug-08	103
7-Aug-08	55
12-Aug-08	26
14-Aug-08	32
19-Aug-08	23
26-Aug-08	43
28-Aug-08	17

70.09428

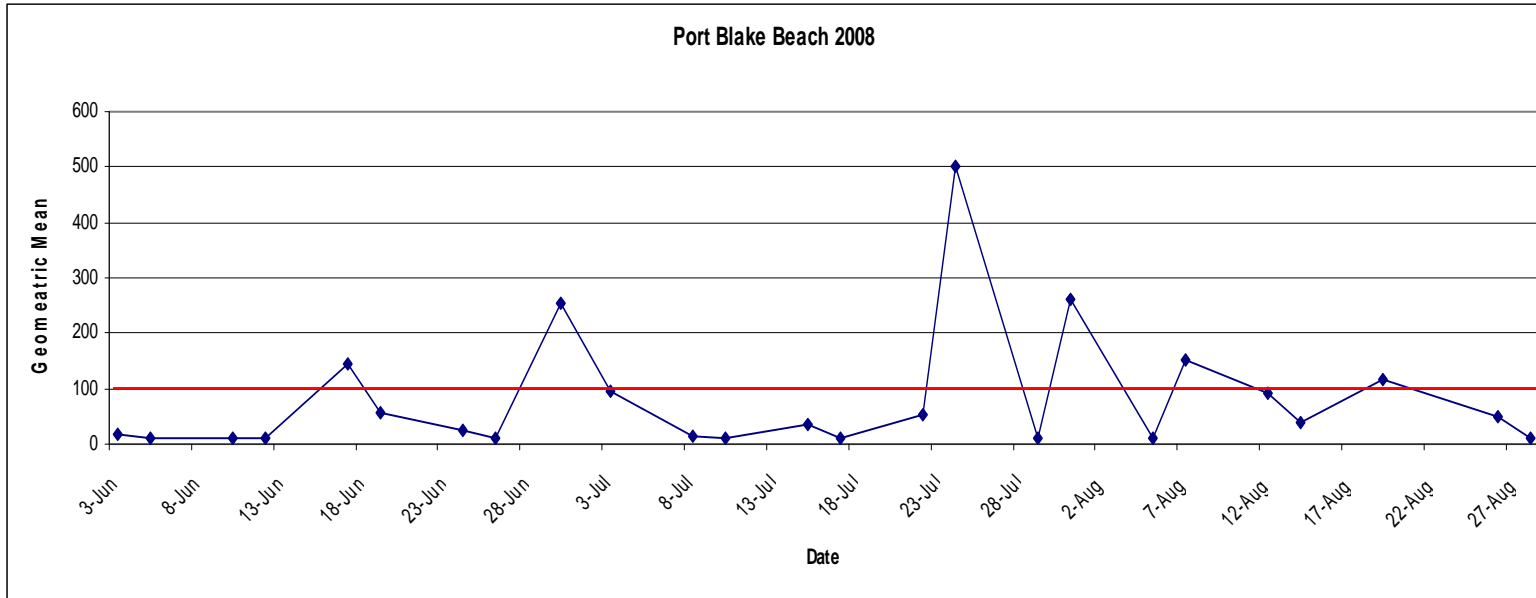
## Port Blake Beach 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
3-Jun-08	40	10	10	10	40	17	15	Opaque	Ripples	NE	Overcast	16	YES	YES	M	0	
5-Jun-08	10	10	10	10	10	10	14	Clear	Calm	SE	Partly Cloudy	16				0	
10-Jun-08	10	10	10	10	10	10	18	Clear	Ripples	SW	Overcast	18	YES	YES	H	8	
12-Jun-08	10	10	10	10	20	11	18	Clear	Calm	SE	Partly Cloudy	16				0	
17-Jun-08	110	130	160	130	210	144	18	Opaque	Ripples	NW	Overcast	11	YES	YES	M	0	
19-Jun-08	50	50	70	50	70	57	16	Turbid	Ripples	SW	Partly Cloudy	12	YES	YES	M	0	
24-Jun-08	10	360	10	20	10	24	19	Clear	Ripples	NE	Overcast	14				0	
26-Jun-08	10	10	10	10	10	10	20	Slightly Turbid	Ripples	SW	Overcast	23	YES	YES	H	0	
30-Jun-08	250	250	200	310	280	255	18	Turbid	>1m	N	Overcast	18	YES	YES	L	0	
3-Jul-08	120	80	110	90	80	95	20	Opaque	>1m	NW	Clear	19	YES	YES	L	3	
8-Jul-08	10	40	20	10	10	15	2	Clear	Ripples	SW	Overcast	22		YES	L	0	
10-Jul-08	10	10	10	10	10	10	22	Clear	Ripples	SW	Clear	25				0	
15-Jul-08	60	80	50	10	20	34	23	Slightly Turbid	Calm	SE	Clear	25				0	
17-Jul-08	10	10	10	10	10	10	23	Clear	Calm	SE	Clear	26		YES	L	0	
22-Jul-08	70	30	90	40	50	52	23	Turbid	Ripples	SE	Clear	25	YES	YES	H	0	
24-Jul-08	470	560	480	440	570	501	17	Opaque	Rough	NE	Clear	21		YES	H	2	
29-Jul-08	10	20	10	10	10	11	23	Slightly Turbid	Calm	SE	Clear	28				0	
31-Jul-08	290	310	330	300	140	262		Slightly Turbid	Rough	SW	Clear	25		YES	H	0	
5-Aug-08	10	10	10	10	20	11	20	Clear	Calm	SE	Clear	25				0	
7-Aug-08	210	100	110	150	220	150	21	Turbid	Rough	SE	Clear	22				0	
12-Aug-08	150	90	90	70	80	93	20	Turbid	Rough	NW	Clear	20		YES		0	
14-Aug-08	50	10	50	110	30	38	21	Turbid	Ripples	E	Clear	22				0	
19-Aug-08	80	140	150	110	110	115	20	Opaque	Rough	NE	Clear	18	YES			0	
26-Aug-08	70	30	60	50	50	50	18	Turbid	Ripples	E	Clear	22				6	Birds are gulls
28-Aug-08	10	10	20	10	10	11	19	Clear	Calm	NE	Overcast	18				0	

### Legend

Rainfall Values Determined by Environment Canada

Heavy	H	>0.75 cm/hour
Moderate	M	0.26-0.75 cm/hour
Light	L	0.0-0.25 cm/hour



Date	Geo Mean
3-Jun-08	17
5-Jun-08	10
10-Jun-08	10
12-Jun-08	11
17-Jun-08	144
19-Jun-08	57
23-Jun-08	24
26-Jun-08	10
1-Jul-08	255
3-Jul-08	95
8-Jul-08	15
10-Jul-08	10
15-Jul-08	34
17-Jul-08	10
22-Jul-08	52
24-Jul-08	501
29-Jul-08	11
31-Jul-08	262
5-Aug-08	11
7-Aug-08	150
12-Aug-08	93
14-Aug-08	38
19-Aug-08	115
26-Aug-08	50
28-Aug-08	11

36.956036

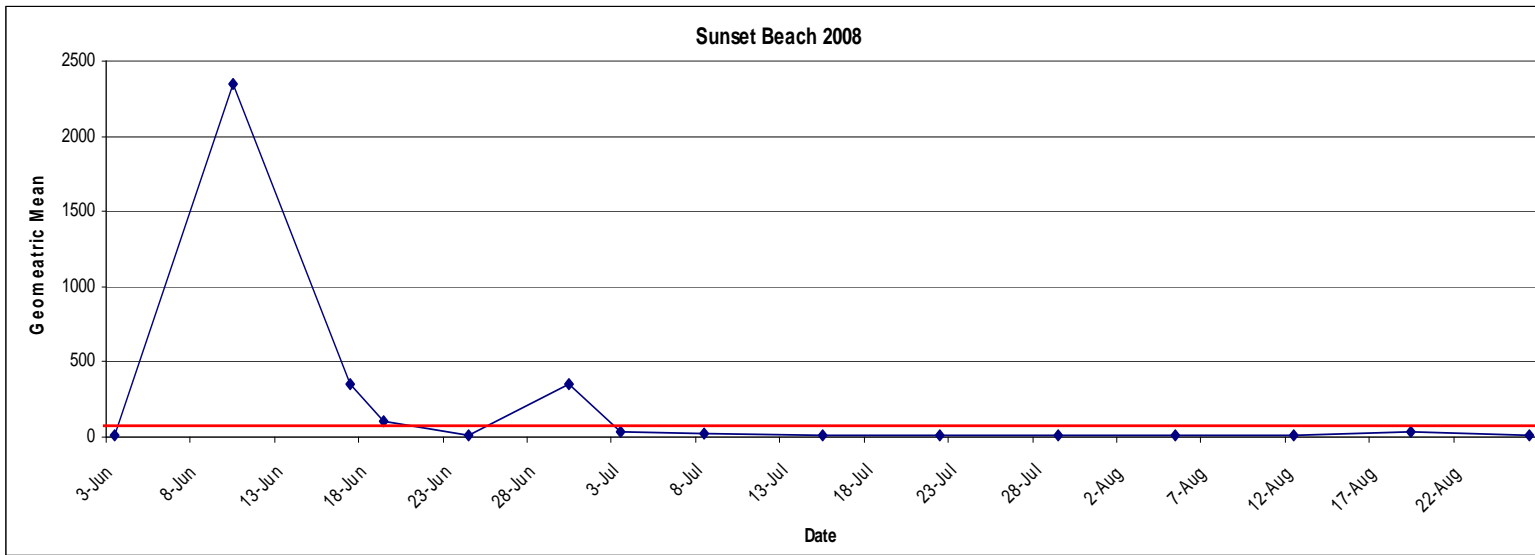
## Sunset Beach 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
3-Jun-08	10	10	10	10	10	10	14	Turbid	Ripples	NE	Overcast	14		yes	M	0	
10-Jun-08	1700	2400	2700	2500	2600	2350	18	Opaque	Ripples	SW	Overcast	18	YES		H	0	Water very black near outfall
17-Jun-08	430	350	340	330	310	350	17	Opaque	Rough	NW	Overcast	11	Yes	YES	H	0	
19-Jun-08	120	80	100	120	140	110	16	Opaque	Ripples	SW	Overcast	14	yes	YES	H	2	
24-Jun-08	10	10	10	10	10	10	18	Clear	Ripples	NE	Partly Cloudy	15				0	
30-Jun-08	280	630	340	360	260	355	18	Opaque	>1m	N	Overcast	17				0	
3-Jul-08	90	30	30	60	20	40	20	Opaque	Rough	NNW	Clear	18		yes	H	0	
8-Jul-08	20	30	40	20	10	22	21	Slightly Turbid	Ripples	SSW	Overcast	22	YES		M	0	
15-Jul-08	20	10	10	10	10	11	21	Turbid	Ripples	SE	Clear	20				0	
22-Jul-08	40	40	10	10	10	17	23	Slightly Turbid	Ripples	SE	Clear	22	YES		H	0	
29-Jul-08	10	10	10	10	10	10	21	Clear	Calm	SE	Clear	20				0	
5-Aug-08	40	30	10	10	10	16	21	Slightly Turbid	Ripples	SE	Partly Cloudy	22				0	
12-Aug-08	10	20	10	10	10	11	18	Opaque	Rough	NW	Clear	20		YES		0	
19-Aug-08	70	30	50	20	30	36	19	Opaque	Rough	NE	Clear	17	YES			0	
26-Aug-08	10	10	10	10	10	10	18	Clear	Ripples	E	Clear	14				6	

### Legend

Rainfall Values Determined by Environment Canada

Heavy	H	>0.75 cm/hour
Moderate	M	0.26-0.75 cm/hour
Light	L	0.0-0.25 cm/hour



Date	Geo Mean
3-Jun-08	10
10-Jun-08	2350
17-Jun-08	350
19-Jun-08	110
23-Jun-08	10
1-Jul-08	355
3-Jul-08	40
8-Jul-08	22
15-Jul-08	11
22-Jul-08	17
29-Jul-08	10
5-Aug-08	16
12-Aug-08	11
19-Aug-08	36
26-Aug-08	10

37.306996

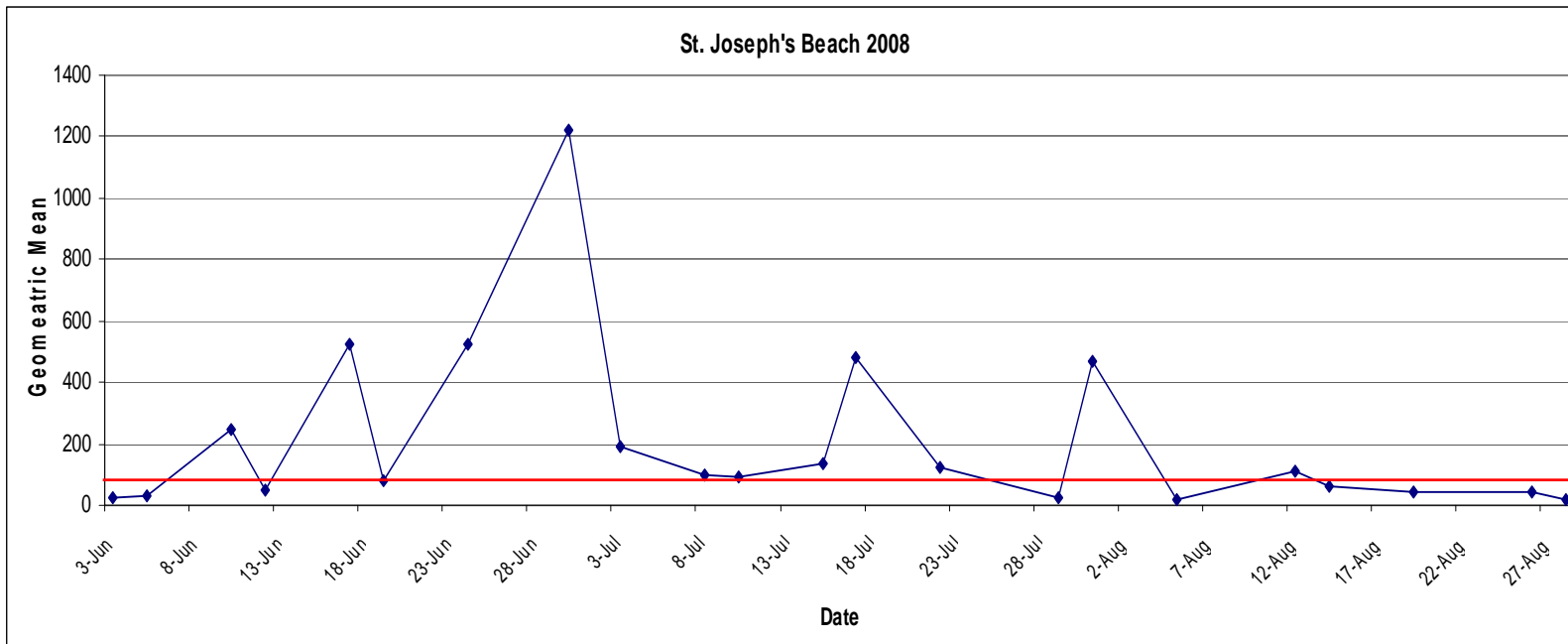
## St. Joseph's Beach 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
3-Jun-08	10	10	10	10	10	1800	24	15.2	Slightly Turbid	Ripples	NE	Overcast	16	YES	YES	H	0	Raining while sampling
5-Jun-08	30	20	40	10	10	360	31	15.2	Clear	Calm	SE	Partly cloudy	17				0	
10-Jun-08	110	240	160	70	400	2000	249	18.0	Opaque	Ripples	SW	Overcast	18	YES	YES	H	0	
12-Jun-08	10	10	20	90	140	540	49	17.9	Slightly Turbid	Ripples	SE	Overcast	16				2	
17-Jun-08	900	940	540	380	340	350	524	17.0	Opaque	Ripples	NW	Overcast	11	YES		M	0	
19-Jun-08	40	100	30	60	90	420	81	16.0	Turbid	Ripples	SW	Overcast	12	YES		M	0	
24-Jun-08	850	810	440	380	450	400	524	19.0	Turbid	Ripples	NE	Overcast	14				0	
30-Jun-08	760	910	940	880	960	6000	1220	18.0	Opaque	Rough	N	Overcast	18				0	
3-Jul-08	240	130	140	120	170	550	191	21.0	Opaque	Rough	NW	Clear	18				0	
8-Jul-08	110	20	60	70	70	1700	102	22.0	Turbid	Ripples	SW	Overcast	22				0	
10-Jul-08	150	180	50	10	10	5000	94	22.0	Clear	Ripples	SW	Clear	25				150	
15-Jul-08	60	130	200	70	60	850	133	22.0	Opaque	Calm	SE	Clear	25	YES		L	0	
17-Jul-08	80	80	250	540	220 0	6300	478	23.0	Clear	Calm	SE	Clear	26				0	
22-Jul-08	60	70	100	150	110	580	126	23.0	Opaque	Ripples	SE	Clear	24	YES		H	0	
29-Jul-08	10	10	60	10	20	300	27	22.0	Slightly Turbid	Calm	SE	Clear	27	YES		H	0	
31-Jul-08	460	370	540	390	320	930	469		Opaque	Rough	SW	Clear	24				0	
5-Aug-08	10	10	10	10	10	280	17	21.7	Clear	Calm	SE	Clear	24				0	
12-Aug-08	80	60	110	70	110	420	109	18.0	Opaque	Ripples	NW	Clear	20		YES		0	
14-Aug-08	80	70	60	80	80	20	59	21.0	Turbid	Ripples	E	Clear	21				3	Birds are gulls
19-Aug-08	60	40	80	90	40	10	44	20.3	Opaque	Ripples	NE	Clear	18	YES			0	
26-Aug-08	20	20	30	40	30	420	43	17.3	Turbid	Ripples	E	Clear	21				29	Birds are gulls
28-Aug-08	10	10	10	30	10	240	20	19.2	Clear	Calm	NE	Overcast	18				0	

### Legend

Rainfall Values Determined by Environment Canada

Heavy        H    >0.75 cm/hour  
 Moderate    M    0.26-0.75 cm/hour  
 Light        L    0.0-0.25 cm/hour



Date	Geo Mean
3-Jun-08	24
5-Jun-08	31
10-Jun-08	249
12-Jun-08	49
17-Jun-08	524
19-Jun-08	81
23-Jun-08	524
1-Jul-08	1220
3-Jul-08	191
8-Jul-08	102
10-Jul-08	94
15-Jul-08	133
17-Jul-08	478
22-Jul-08	126
29-Jul-08	27
31-Jul-08	469
5-Aug-08	17
12-Aug-08	109
14-Aug-08	59
19-Aug-08	44
26-Aug-08	43
28-Aug-08	20

102.91776

# **INLAND LOCATIONS**

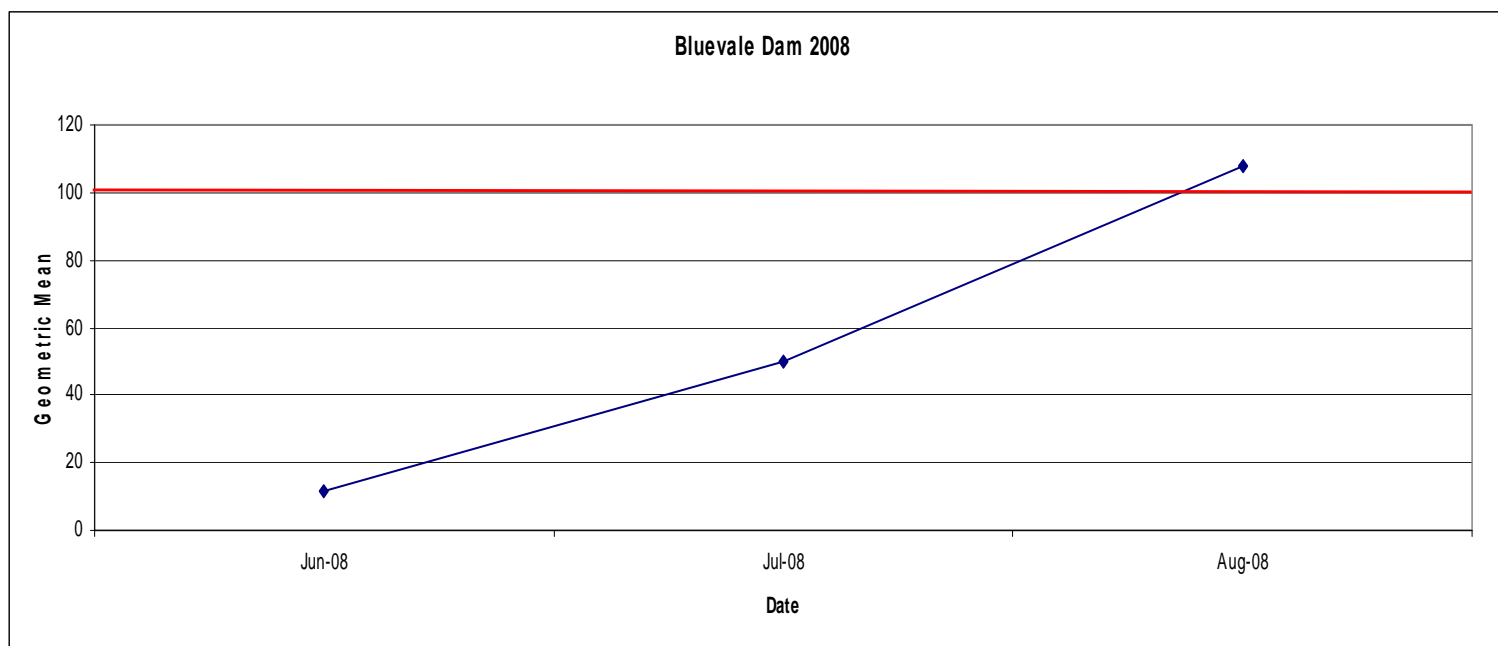
## Bluevale Dam 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
25-Jun-08	10	10	20	10	10	11	23	<1m	Calm		Sunny	28				0	
30-Jul-08	220	30	40	40	30	50	25	Clear	Calm	SE	Sunny	24	YES		H	0	
27-Aug-08	140	130	90	90	100	108	21	Clear	Calm	SE	Clear	22				0	

### Legend

Rainfall Values Determined by Environment Canada

Heavy H >0.75 cm/hour  
 Moderate M 0.26-0.75 cm/hour  
 Light L 0.0-0.25 cm/hour



Date	Geo Mean
25-Jun-08	11
30-Jul-08	50
27-Aug-08	108

40

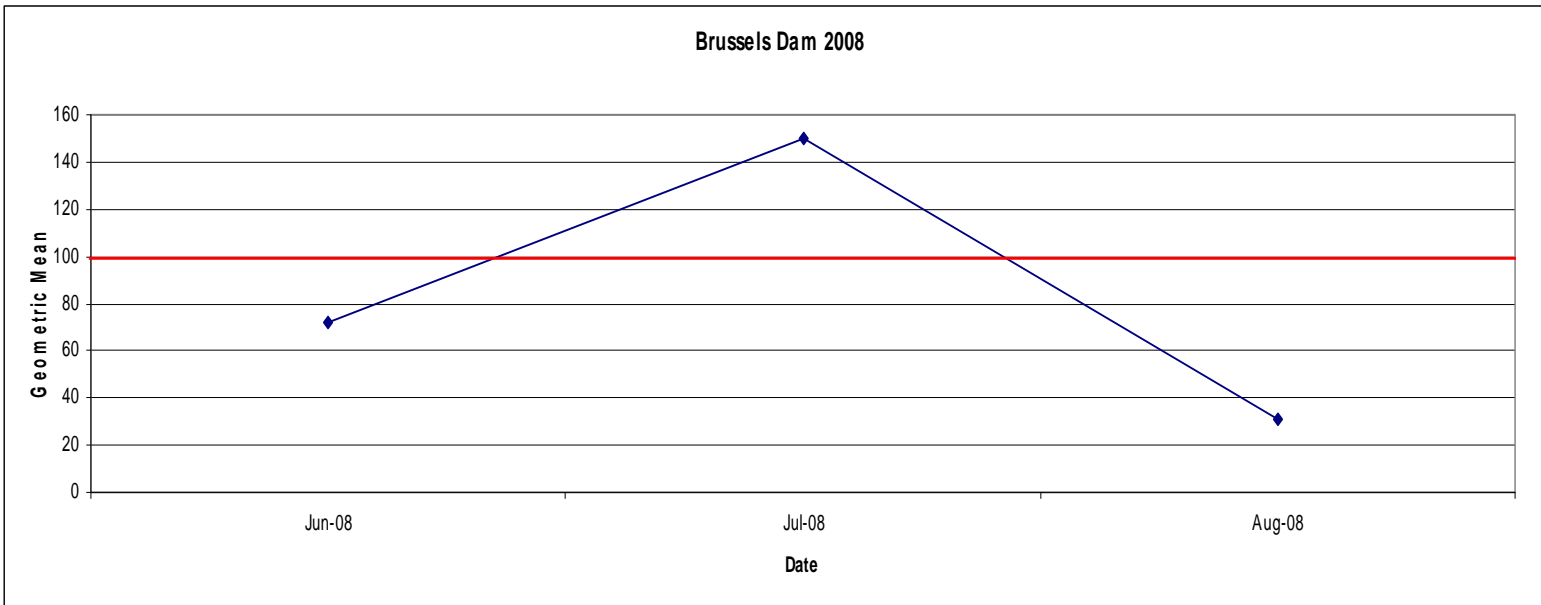
## Brussels Dam 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
25-Jun-08	910	30	30	60	40	72	25	<1m	Calm		Sunny	28				0	
30-Jul-08	100	140	100	200	270	150	24	Slightly Turbid	Calm	SE	Sunny	24	YES		H	0	
27-Aug-08	50	20	30	30	30	31	21	Turbid	Calm	SE	Clear	26				0	

### Legend

Rainfall Values Determined by Environment Canada

Heavy H >0.75 cm/hour  
 Moderate M 0.26-0.75 cm/hour  
 Light L 0.0-0.25 cm/hour



Date	Geo Mean
25-Jun-08	72
30-Jul-08	150
27-Aug-08	31

69

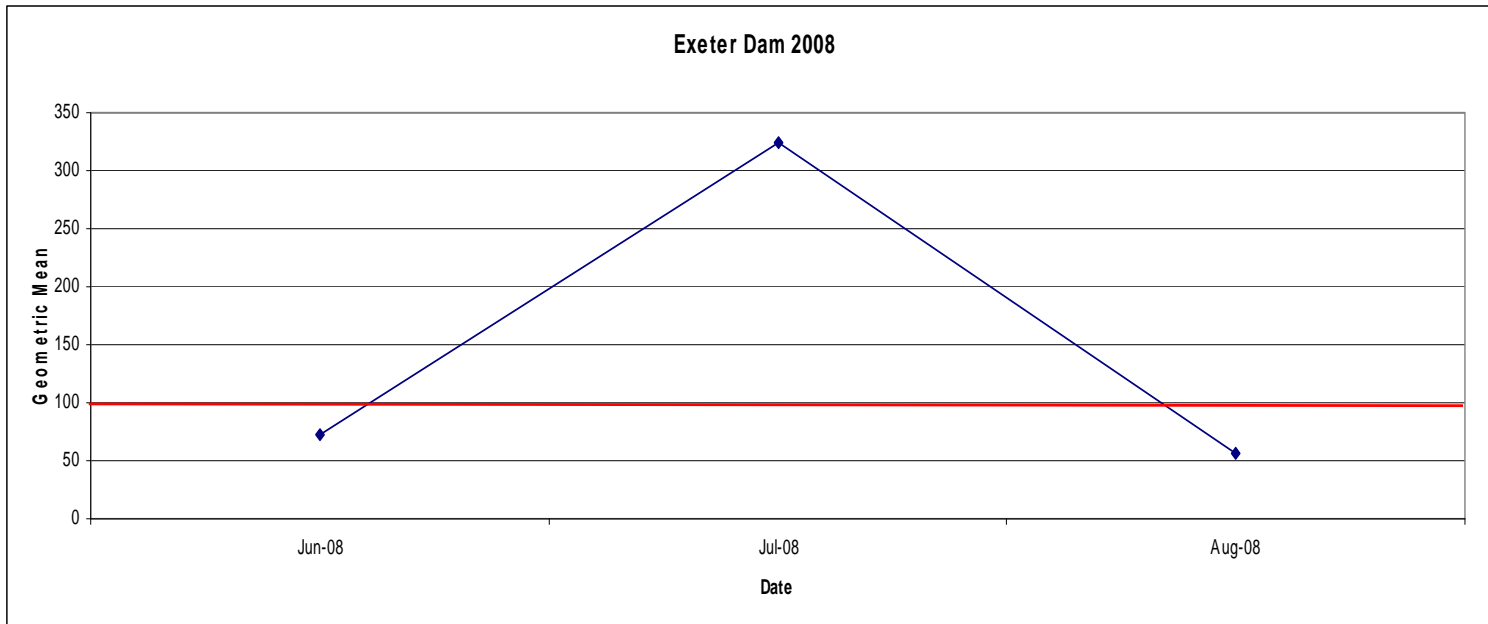
## Exeter Dam 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
25-Jun-08	90	530	40	10	100	72	21	<1m	Calm		Sunny	23				0	water is opaque and murky
30-Jul-08	380	450	500	150	280	324	25	Slightly Turbid	Calm	SE	Sunny	27	YES		H	0	
27-Aug-08	50	30	50	130		56	20	Turbid	Calm	SE	Clear	26				0	

### Legend

Rainfall Values Determined by Environment Canada

Heavy H >0.75 cm/hour  
 Moderate M 0.26-0.75 cm/hour  
 Light L 0.0-0.25 cm/hour



Date	Geo Mean
25-Jun-08	72
30-Jul-08	324
27-Aug-08	56

109

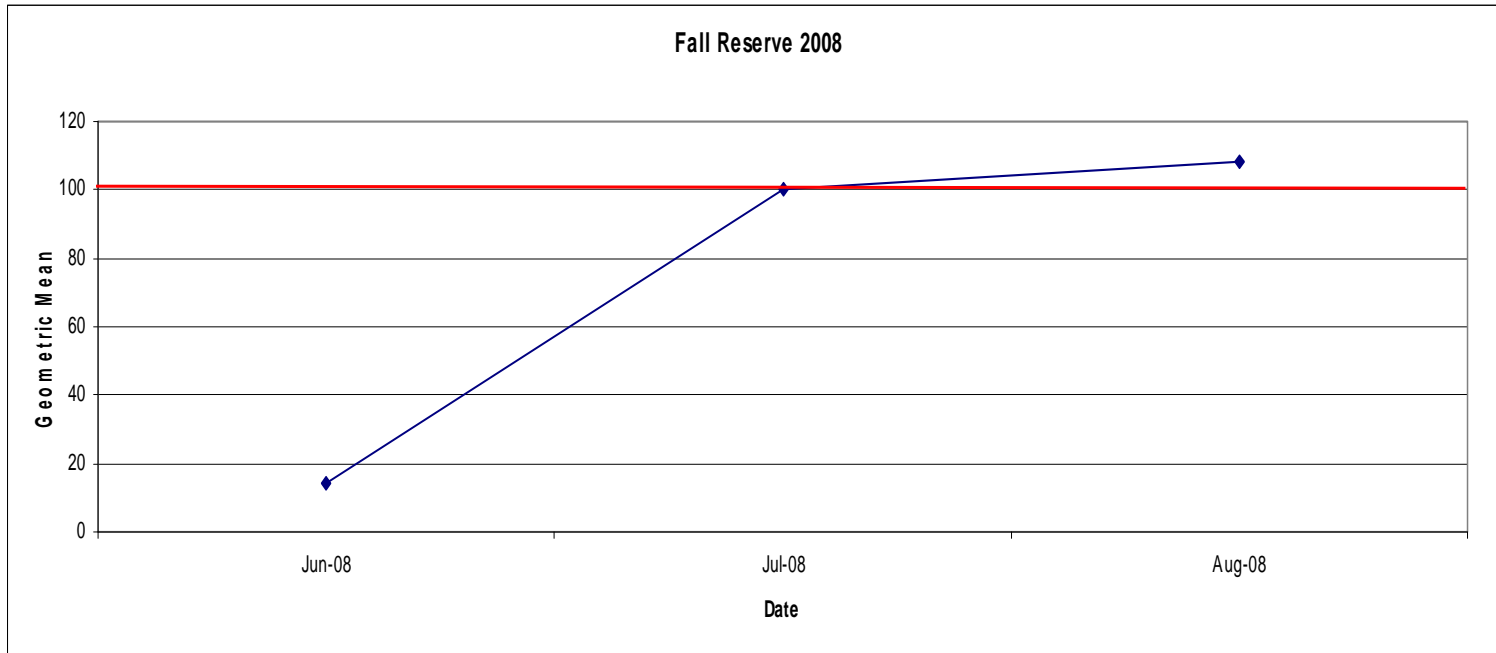
## Fall Reserve 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
25-Jun-08	20	10	10	10	30	14	23	<1m	Calm		Sunny	26.3				0	
30-Jul-08	90	50	80	190	150	101	24	Clear	Calm	SE	Sunny	21	YES		L	0	
27-Aug-08	130	140	90	60	150	108	21	Clear	Calm	SE	Clear	21				0	

### Legend

Rainfall Values Determined by Environment Canada

Heavy H >0.75 cm/hour  
 Moderate M 0.26-0.75 cm/hour  
 Light L 0.0-0.25 cm/hour



Date	Geo Mean
25-Jun-08	14
30-Jul-08	101
27-Aug-08	108

53

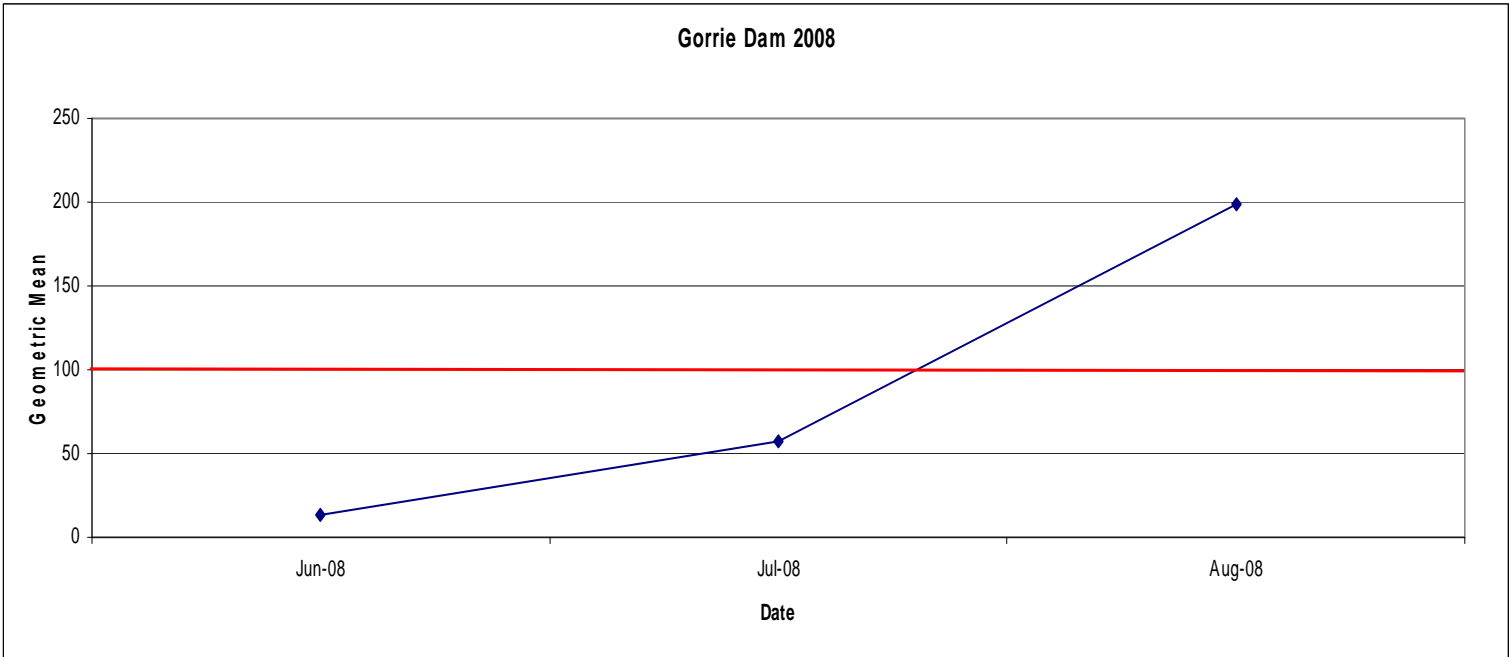
# Gorrie Dam 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
25-Jun-08	10	20	10	10	20	13	25	<1m	Calm		Sunny	28				0	
30-Jul-08	130	50	70	70	20	58	24	Clear	Calm	SE	Sunny	24	YES			0	
27-Aug-08	210	180	310	120	220	199	20	Clear	Calm	SE	Clear	22				0	

**Legend**

Rainfall Values Determined by Environment Canada

- Heavy H >0.75 cm/hour
- Moderate M 0.26-0.75 cm/hour
- Light L 0.0-0.25 cm/hour



Date	Geo Mean
25-Jun-08	13
30-Jul-08	58
27-Aug-08	199

53

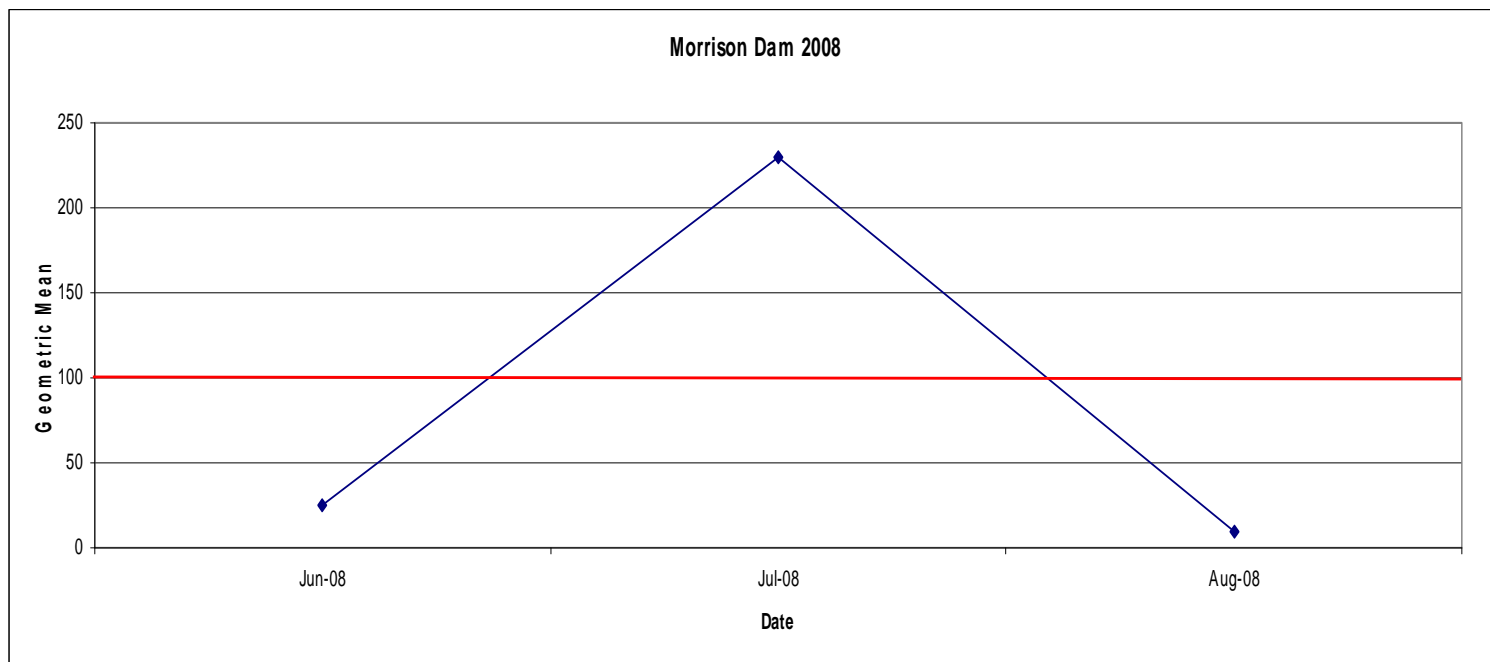
## Morrison Dam 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
25-Jun-08	10	30	20	30	50	25	24	<1m	Calm		Clear	23				9	
30-Jul-08	410	60	160	310	530	230	24	Slightly Turbid	Calm	SE	Clear	27	YES			10	
27-Aug-08	10	10	10	10	10	10	22	Turbid	Calm	SE	Clear	26				0	

### Legend

Rainfall Values Determined by Environment Canada

Heavy H >0.75 cm/hour  
 Moderate M 0.26-0.75 cm/hour  
 Light L 0.0-0.25 cm/hour



Date	Geo Mean
25-Jun-08	25
30-Jul-08	230
27-Aug-08	10

38

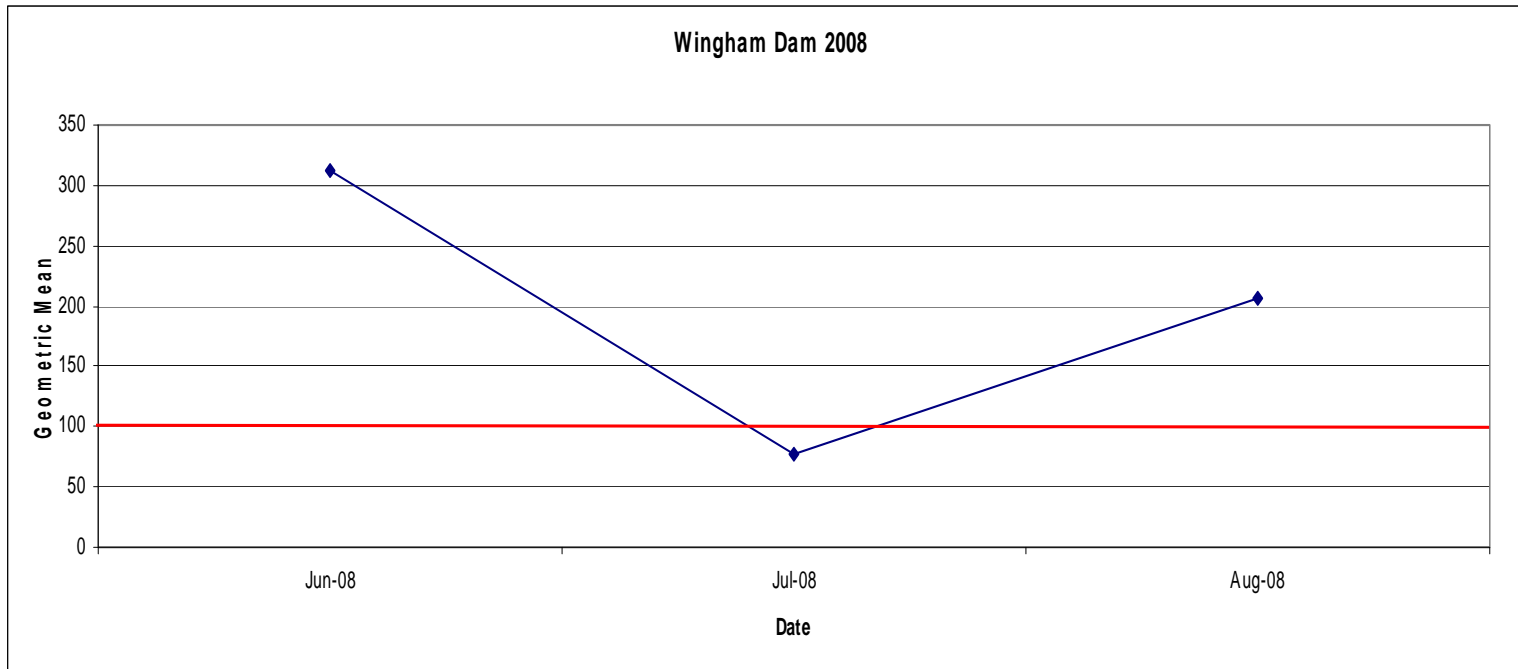
## Wingham Dam 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
25-Jun-08	420	310	390	140	420	313	22	<1m	Calm		Sunny	23				0	
30-Jul-08	100	60	90	80	60	76	24	Clear	Calm	SE	Sunny	24	YES		L	0	
27-Aug-08	160	130	300	200	300	206	20	Clear	Calm	SE	Clear	20				0	

### Legend

Rainfall Values Determined by Environment Canada

Heavy H >0.75 cm/hour  
 Moderate M 0.26-0.75 cm/hour  
 Light L 0.0-0.25 cm/hour



Date	Geo Mean
25-Jun-08	313
30-Jul-08	76
27-Aug-08	206
	170

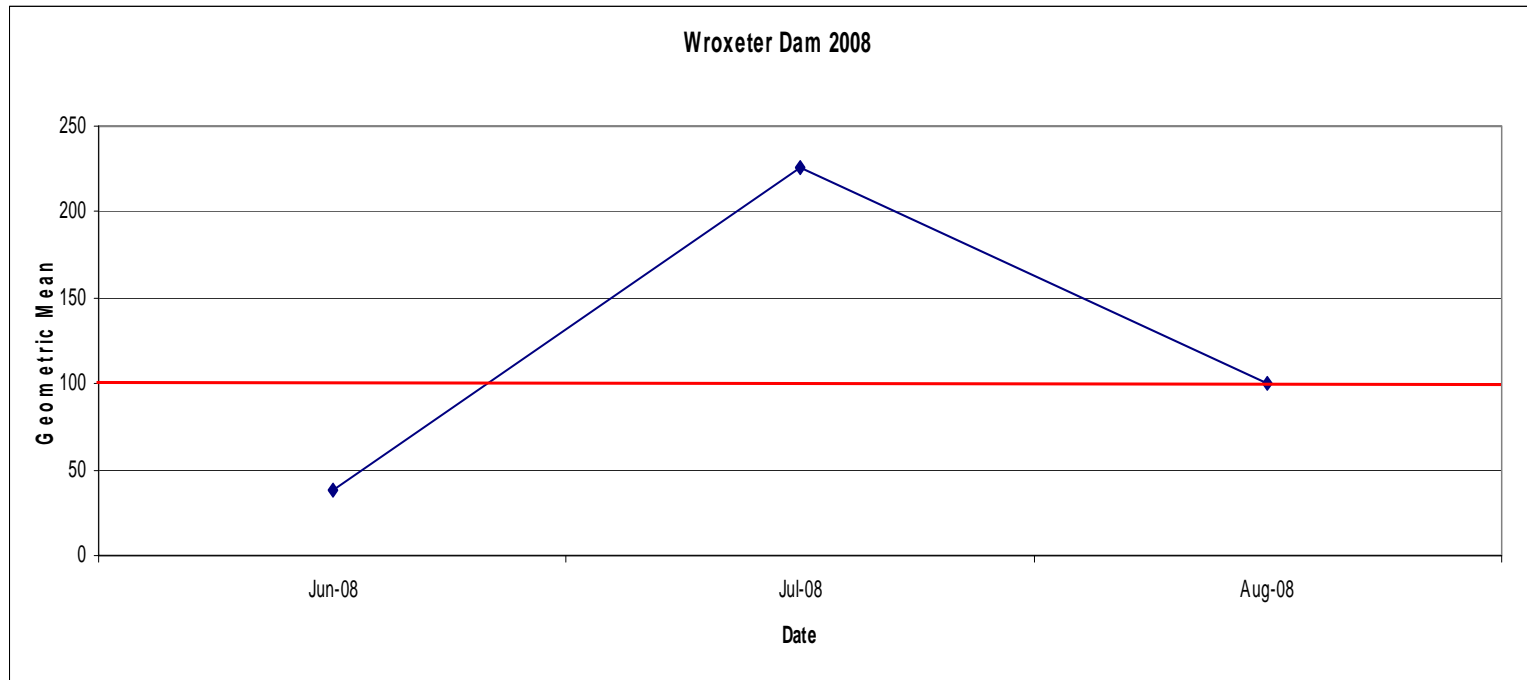
## Wroxeter Dam 2008

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Geo Mean	Water Temp	Water Clarity	Wave Height	Wind	Sunlight	Air Temp	Rainfall 24Hrs	Rainfall 48Hrs	Rain Level	Bird Count	Notes
25-Jun-08	40	60	20	20	90	39	25	<1m	Calm		Sunny	28				0	
30-Jul-08	360	420	30	360	360	226	25	Clear	Calm	SE	Sunny	24	YES		M	0	
27-Aug-08	10	30	10	50	50	100	20	Clear	Calm	SE	Clear	22				0	

### Legend

Rainfall Values Determined by Environment Canada

Heavy H >0.75 cm/hour  
 Moderate M 0.26-0.75 cm/hour  
 Light L 0.0-0.25 cm/hour

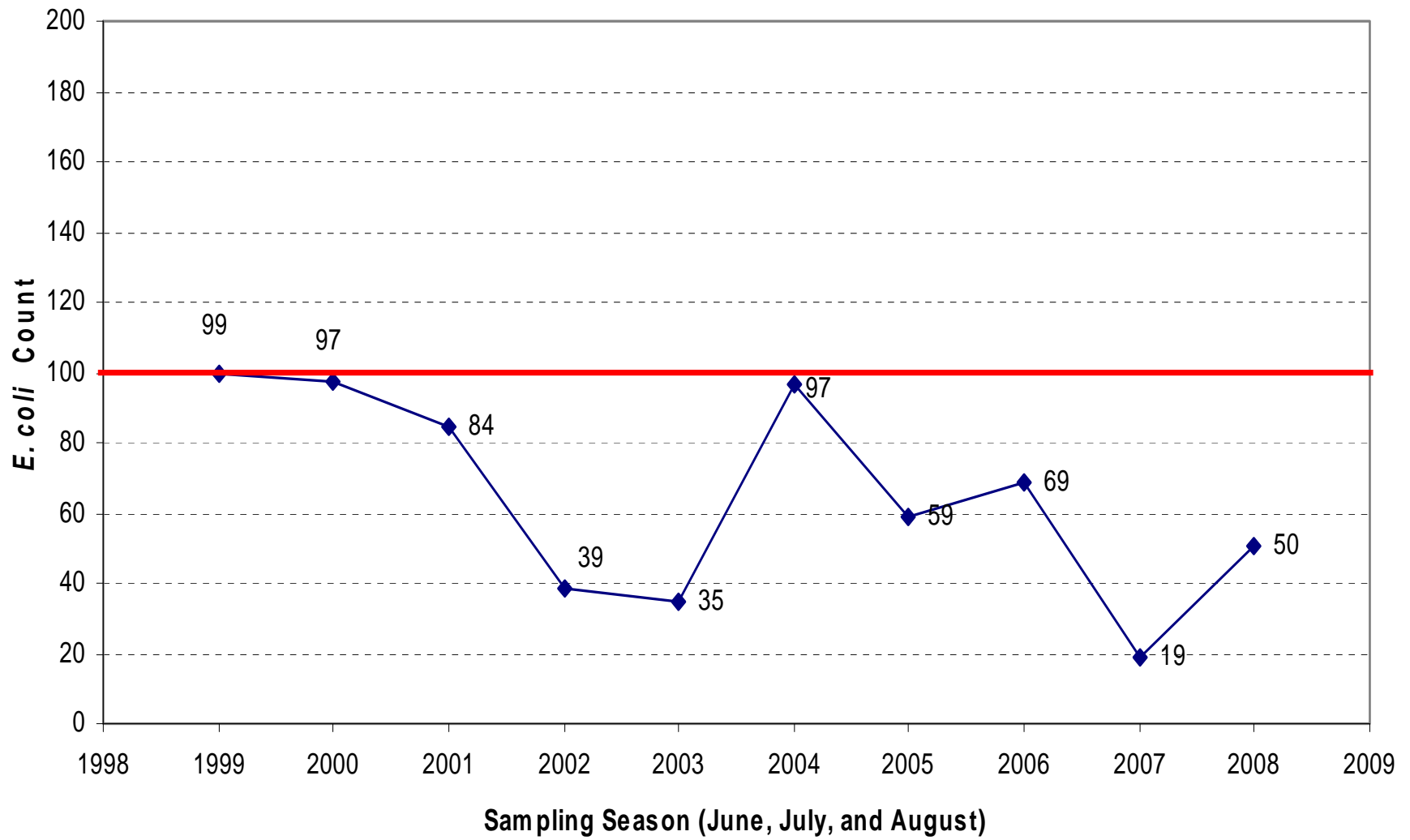


Date	Geo Mean
25-Jun-08	39
30-Jul-08	226
27-Aug-08	100

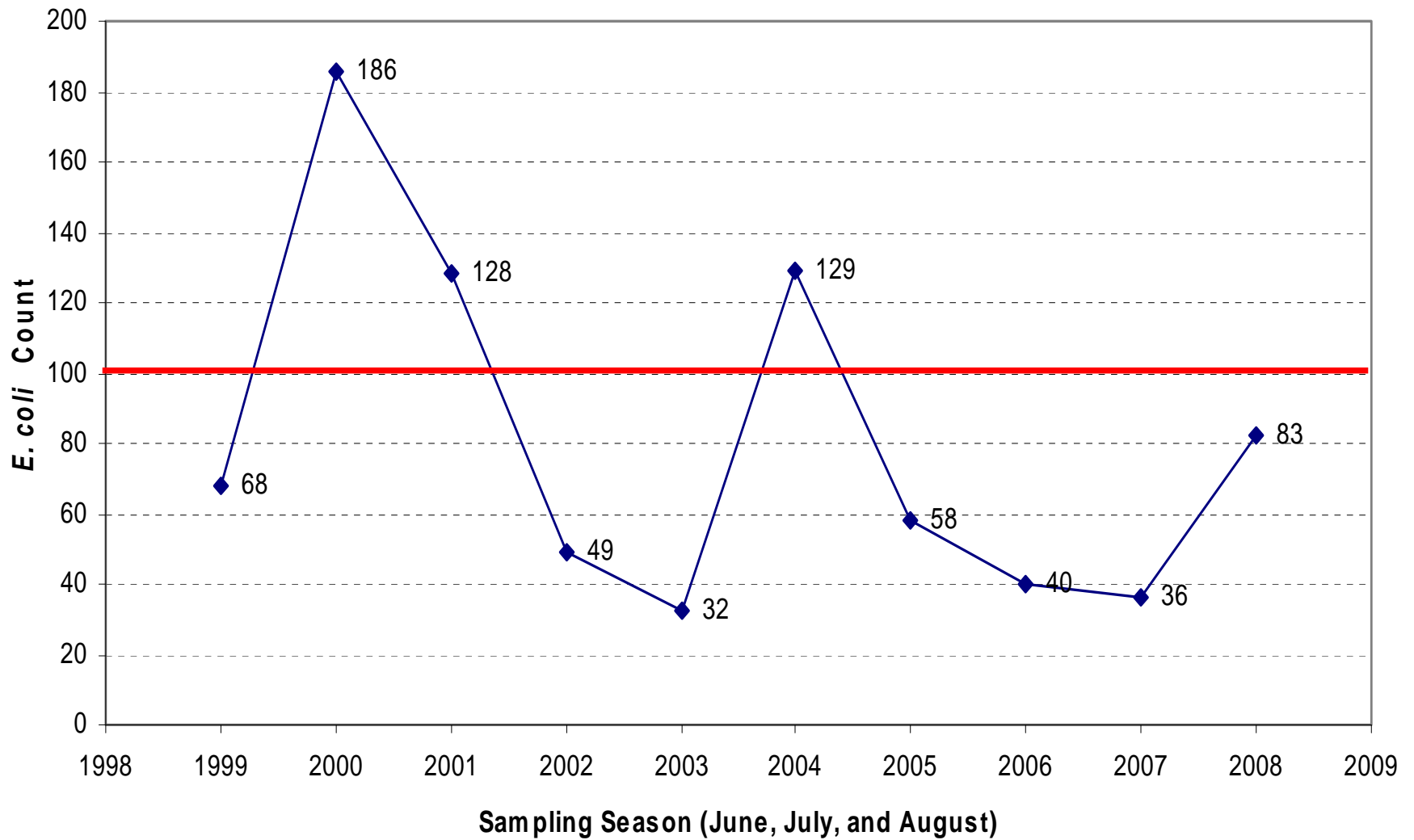
96

# **SEASONAL 10 YEAR E.COLI GEOMETRIC TREND**

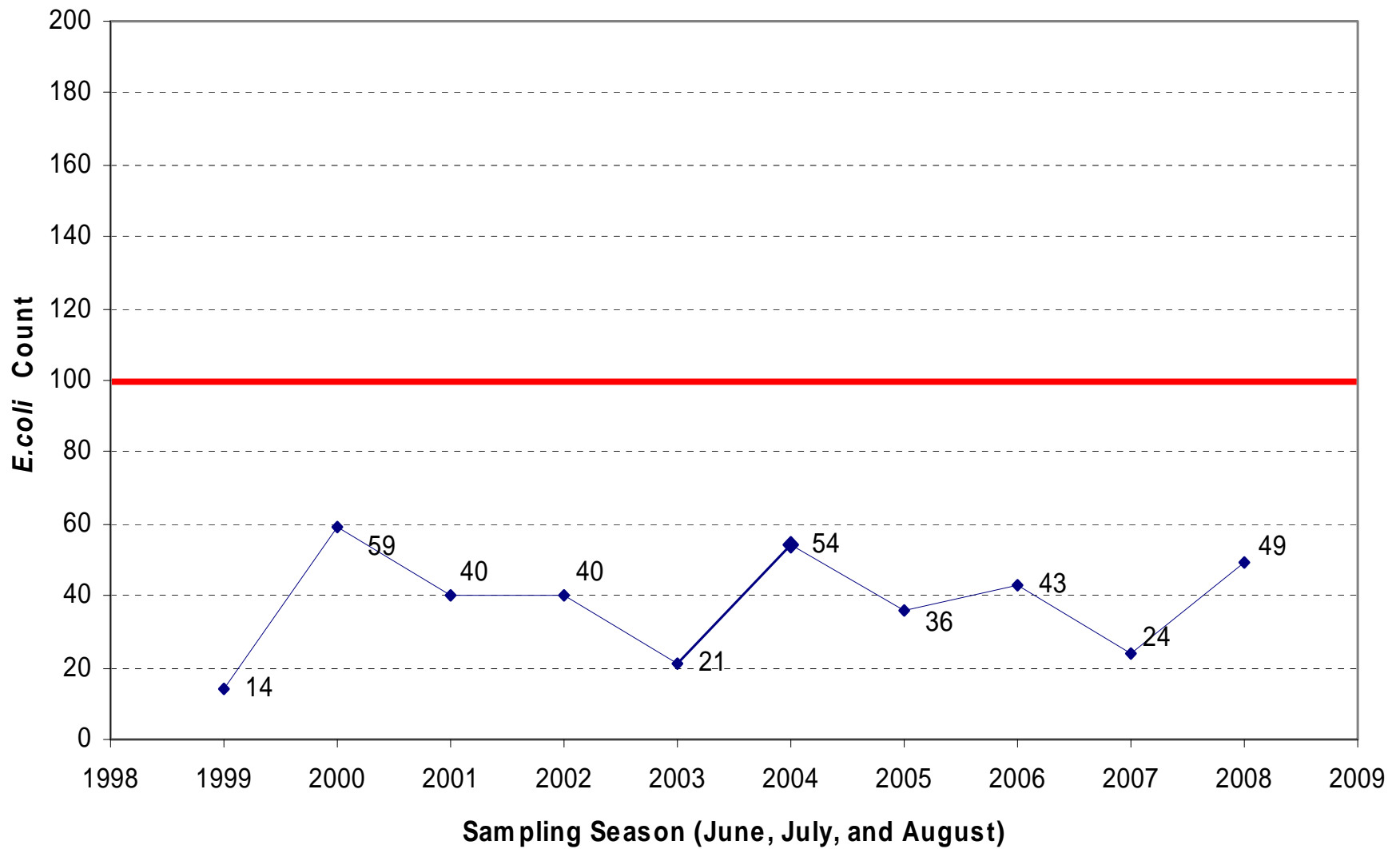
### AMBERLEY BEACH 10 YEAR *E. COLI* GEOMETRIC TREND



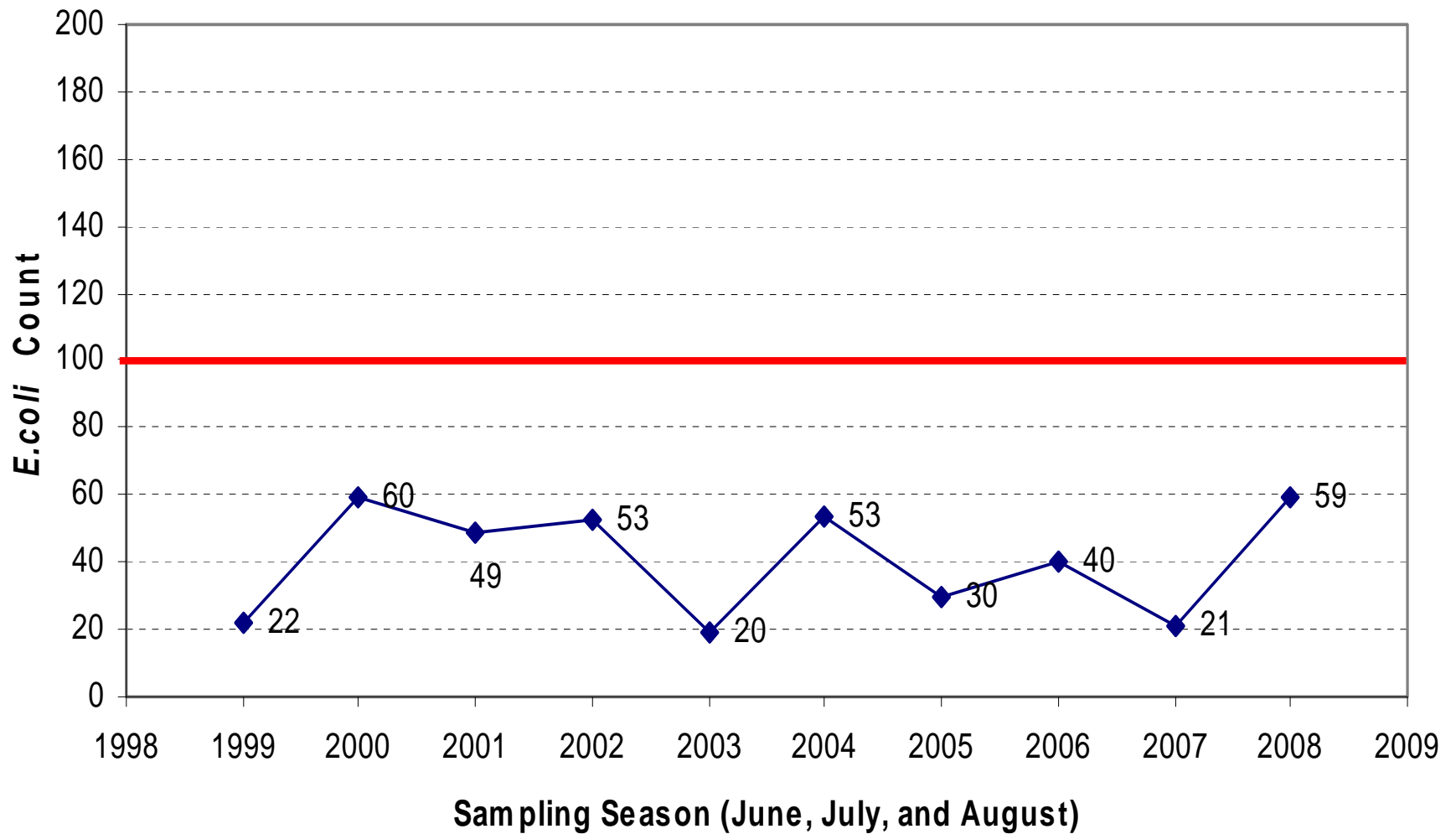
### ASHFIELD TOWNSHIP PARK BEACH 10 YEAR *E. COLI* GEOMETRIC TREND



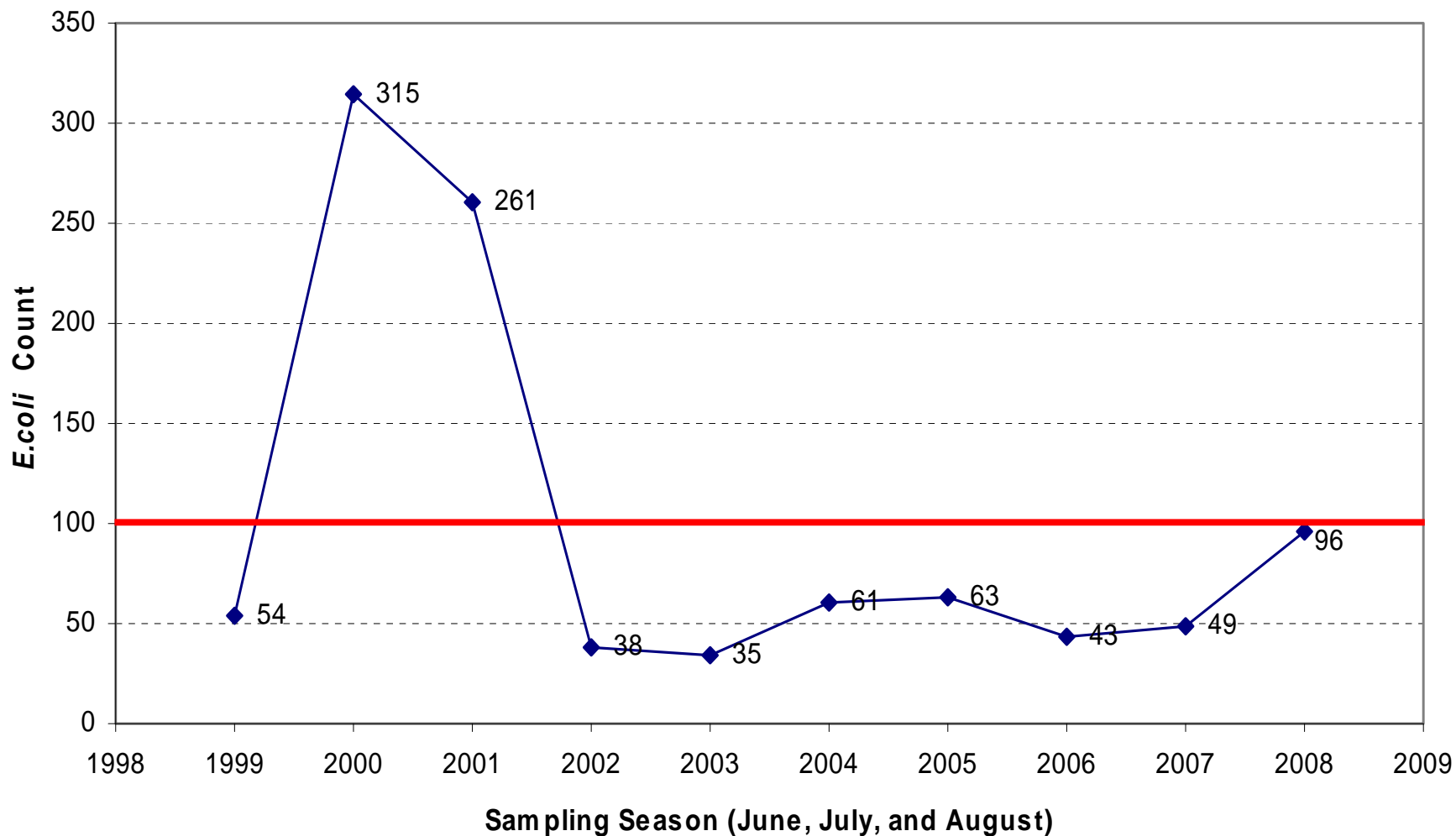
### BAYFIELD MAIN BEACH 10 YEAR *E. COLI* GEOMETRIC TREND



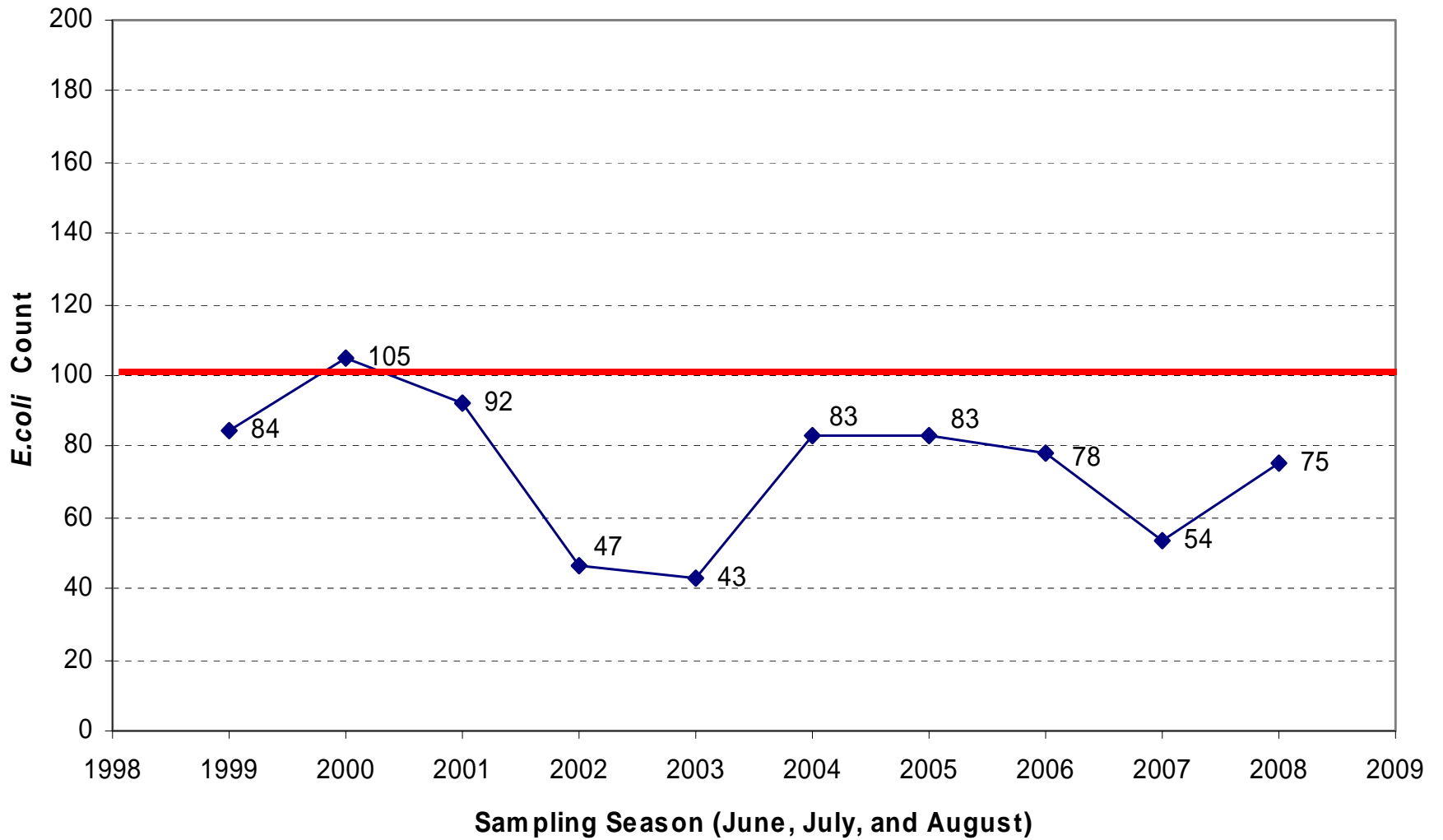
## BAYFIELD SOUTH BEACH 10 YEAR *E.COLI* GEOMETRIC TREND



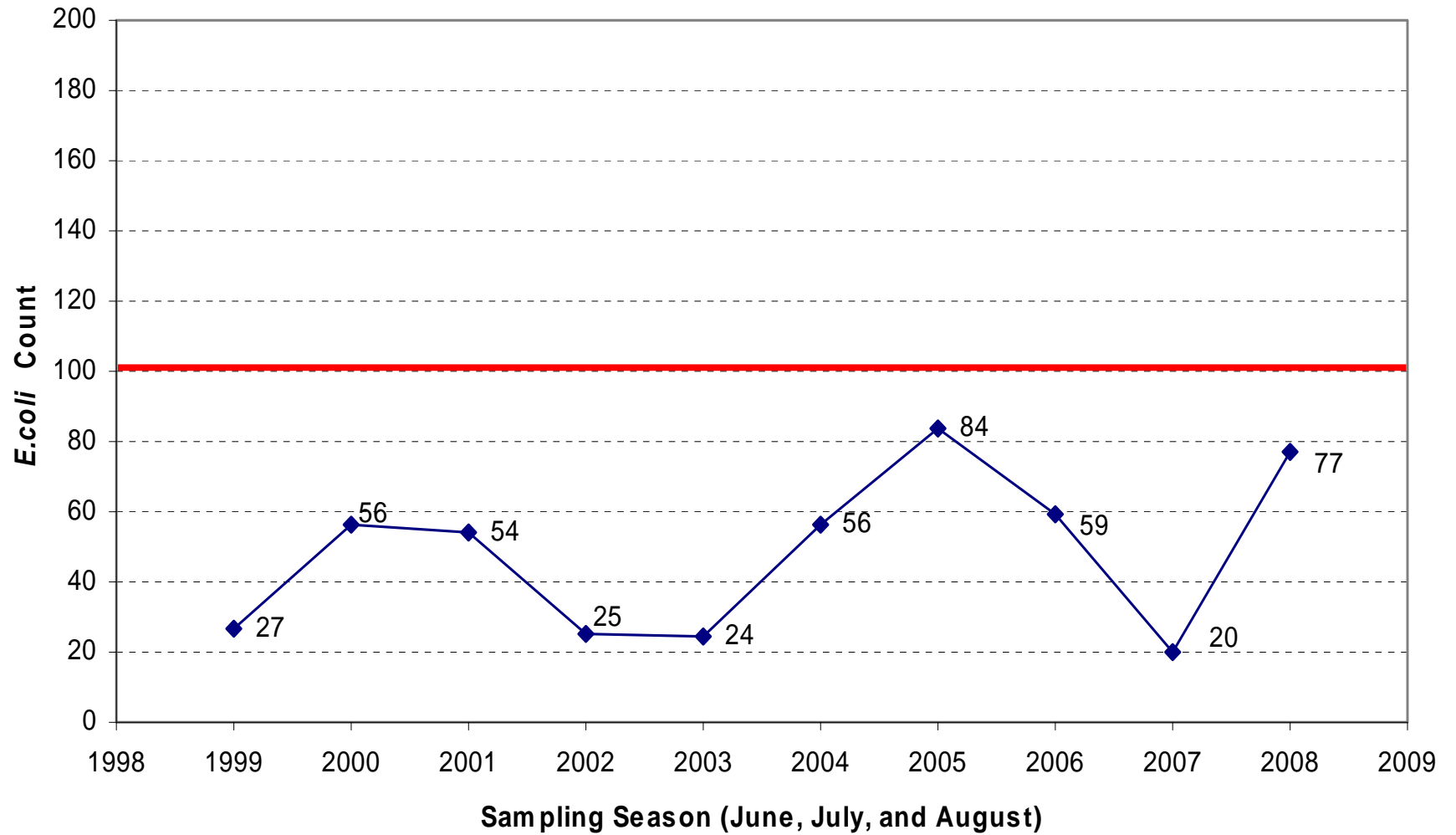
### BLACK'S POINT BEACH 10 YEAR *E. COLI* GEOMETRIC TREND



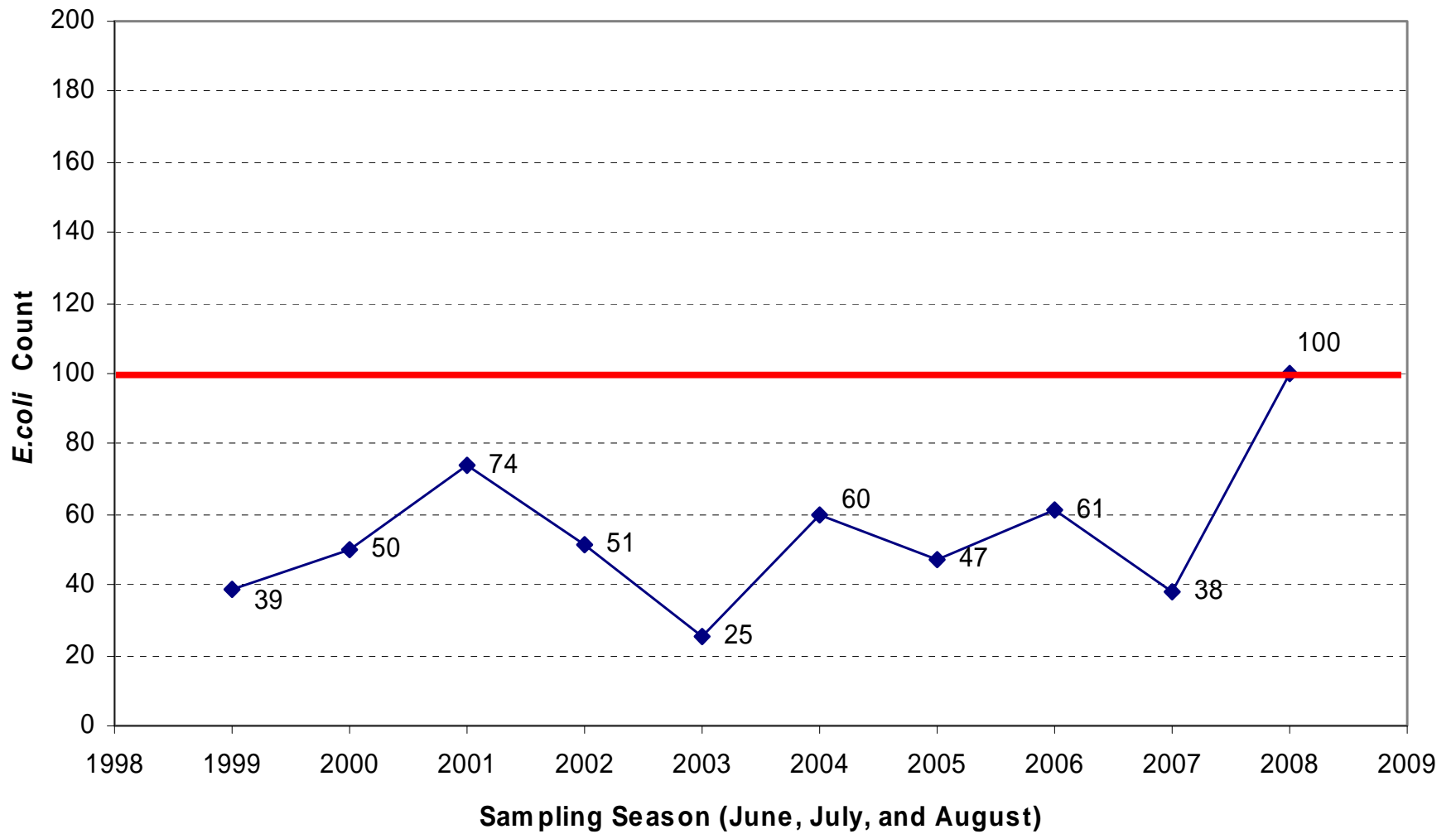
### GODERICH MAIN 10 YEAR *E. COLI* GEOMETRIC TREND



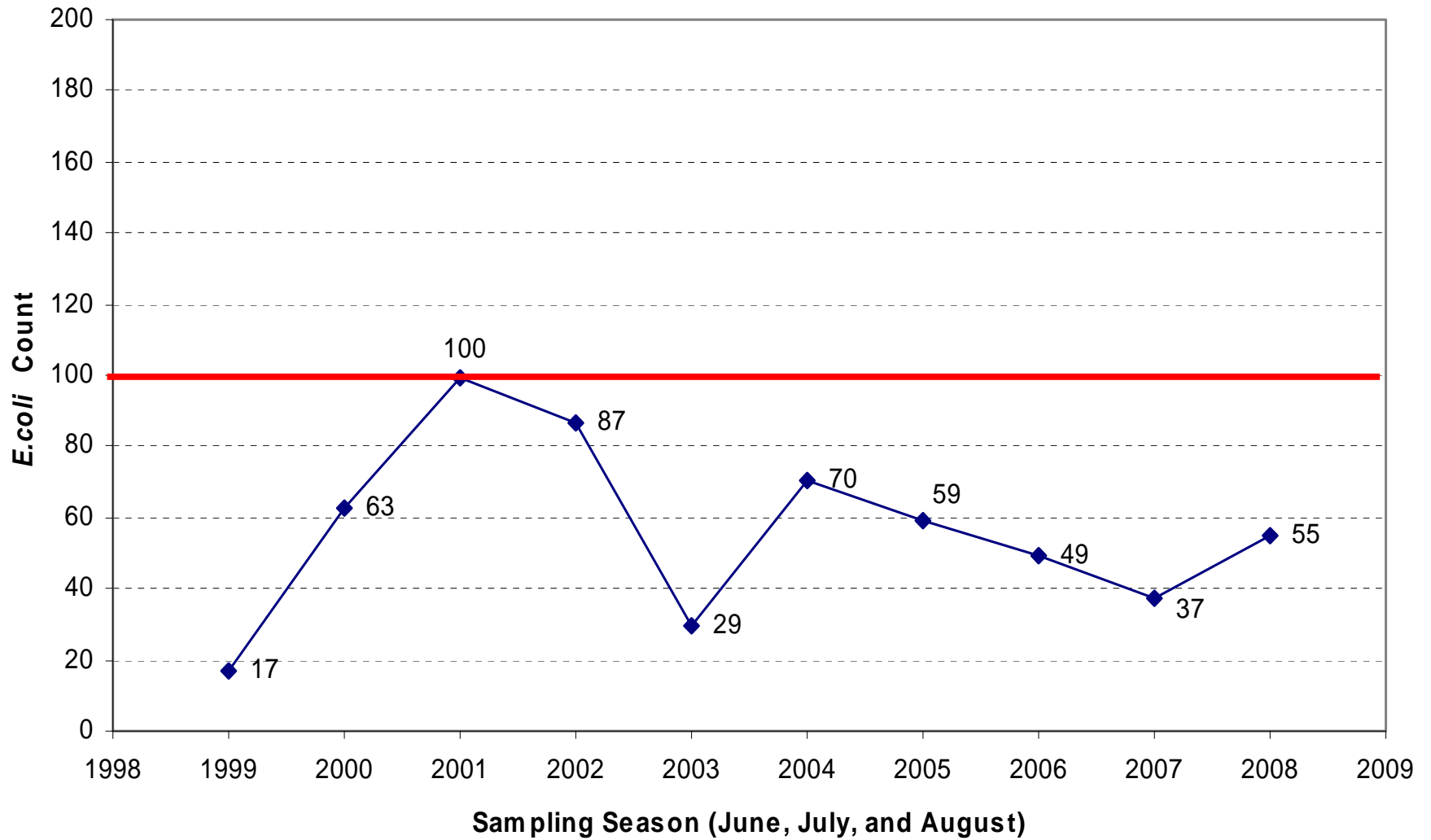
### GODERICH ROTARY COVE BEACH 10 YEAR *E. COLI* GEOMETRIC TREND



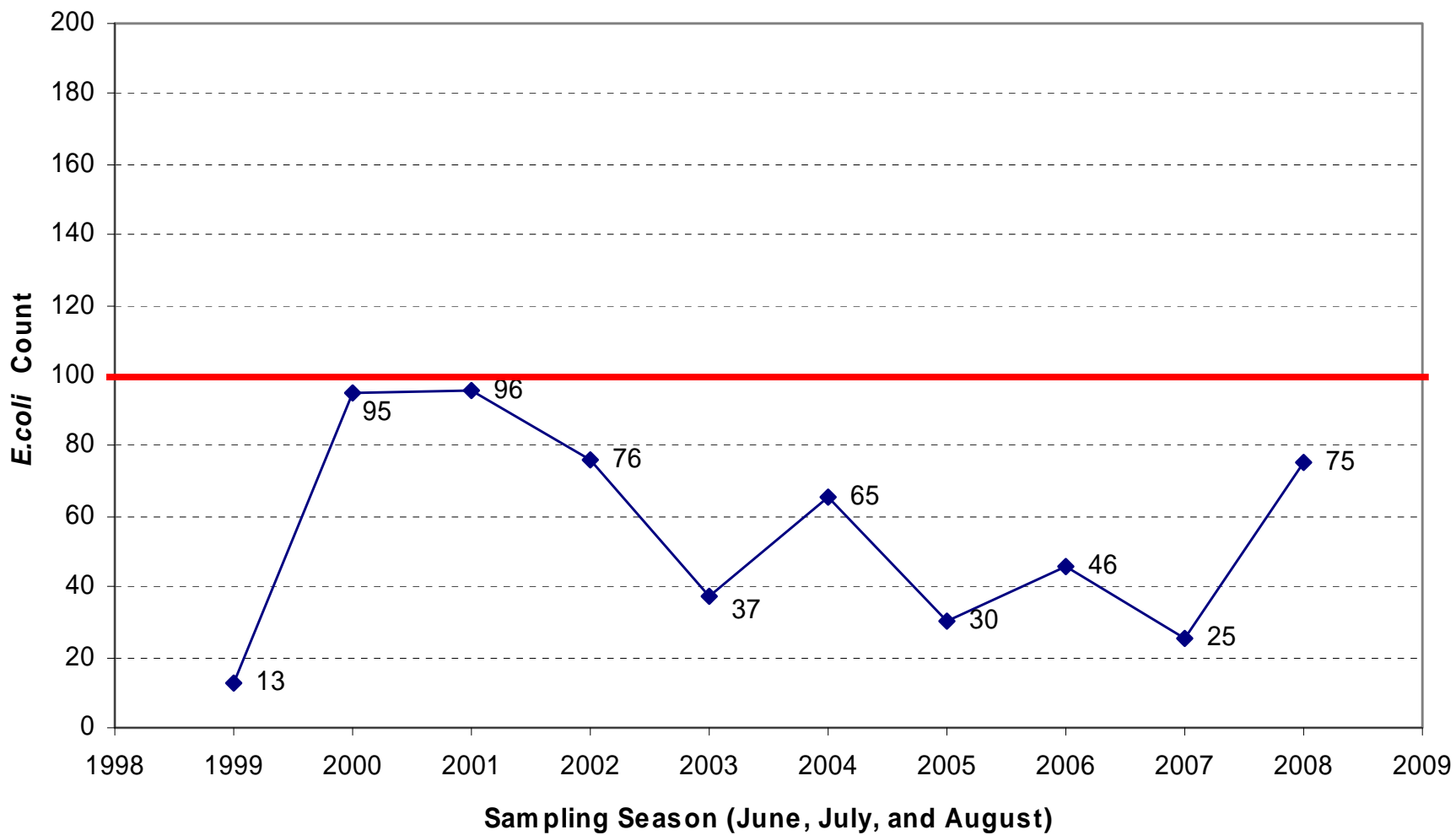
### GODERICH ST. CHRISTOPHER'S BEACH 10 YEAR *E.COLI* GEOMETRIC TREND



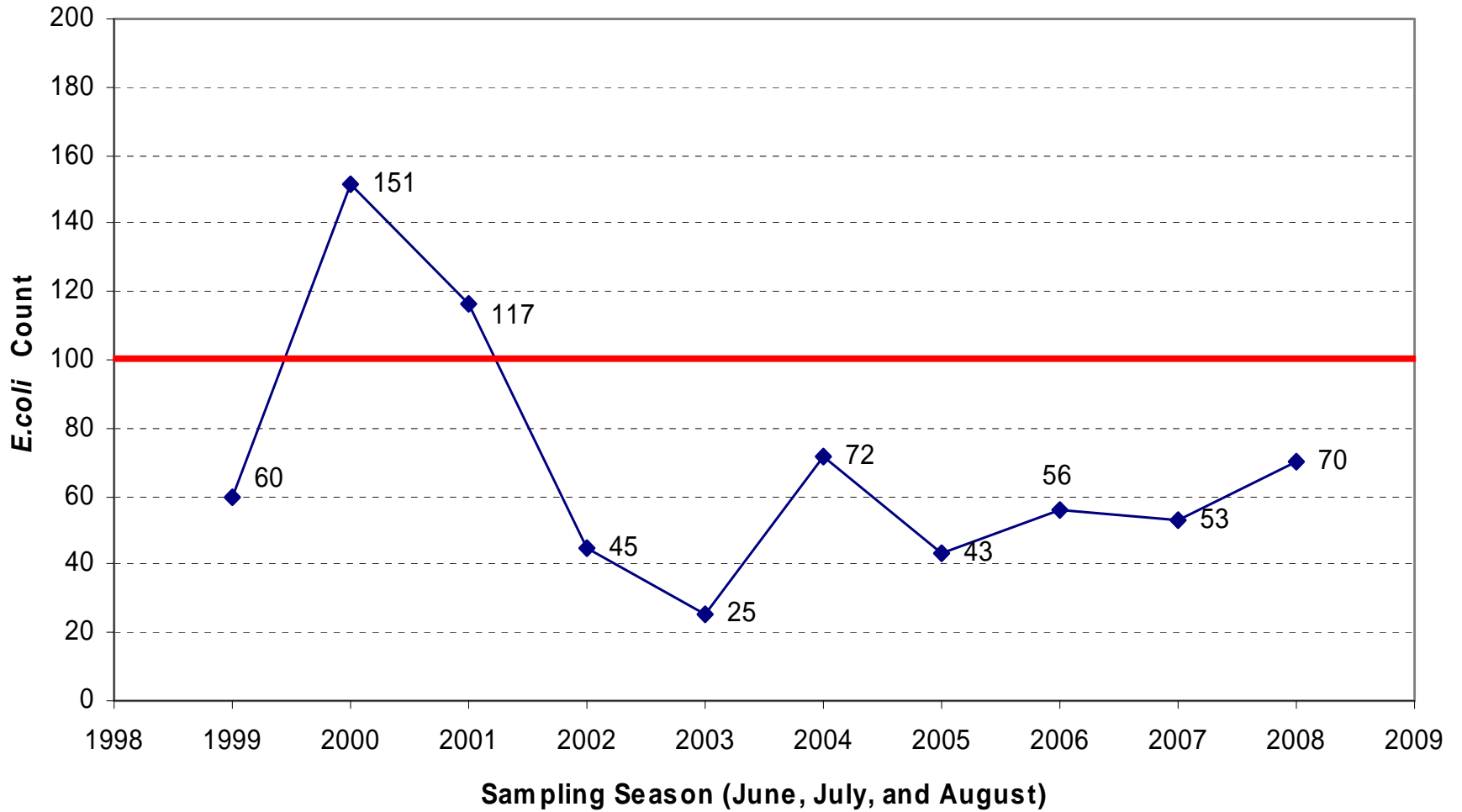
### HAY TOWNSHIP PARK BEACH 10 YEAR *E. COLI* GEOMETRIC TREND



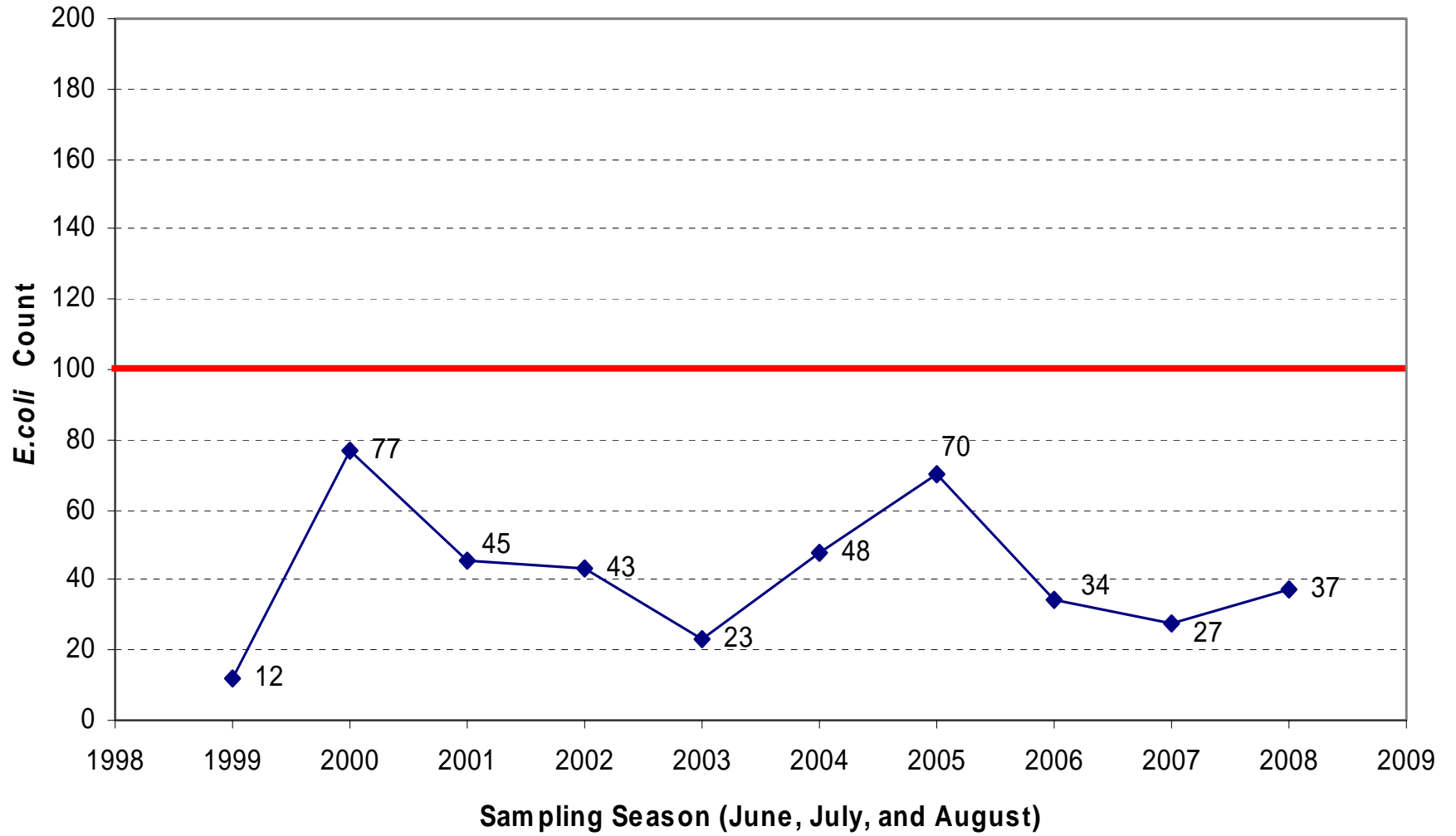
### HOUSTON HEIGHTS BEACH 10 YEAR *E. COLI* GEOMETRIC TREND



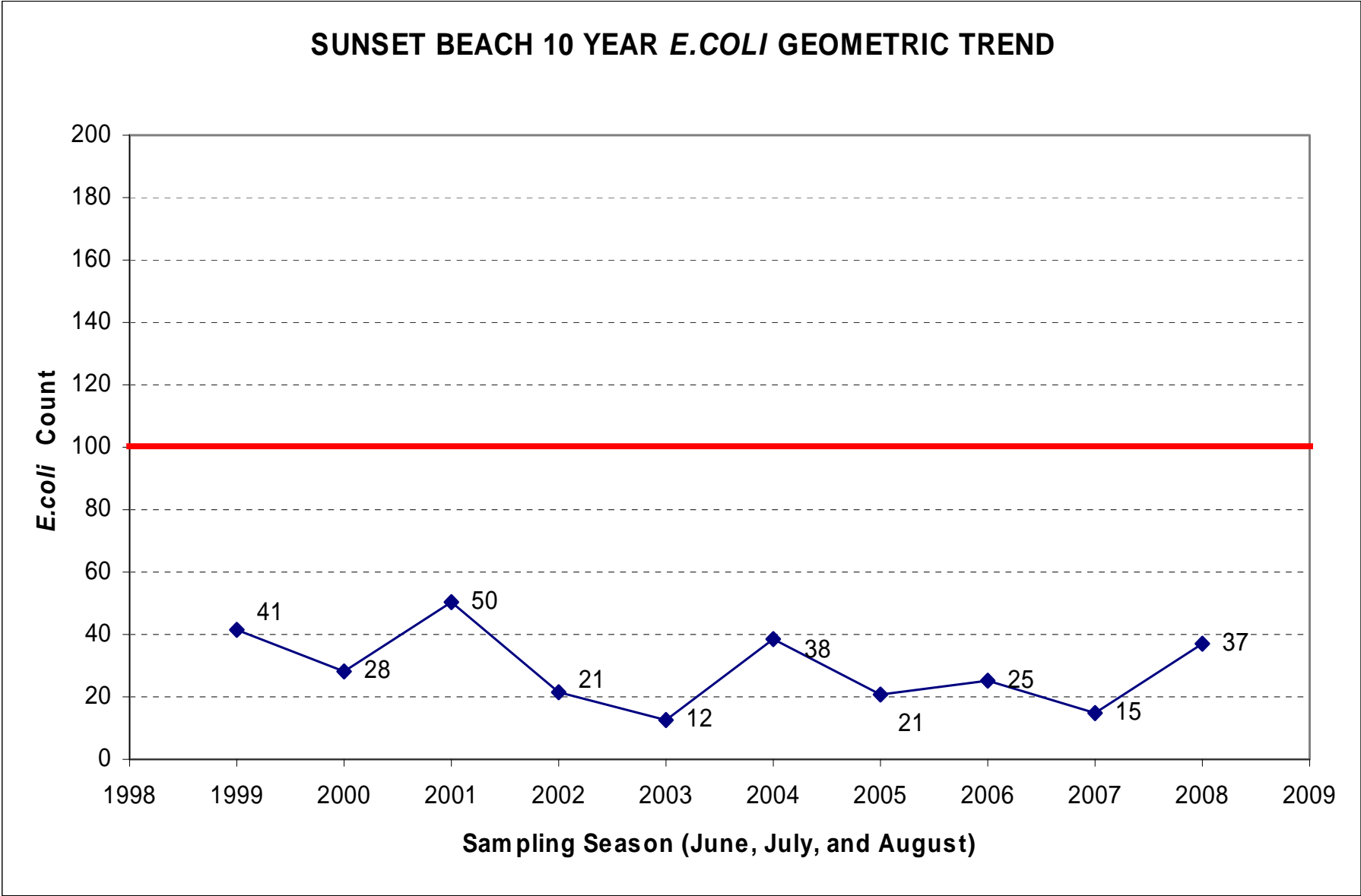
### PORT ALBERT BEACH 10 YEAR *E. COLI* GEOMETRIC TREND



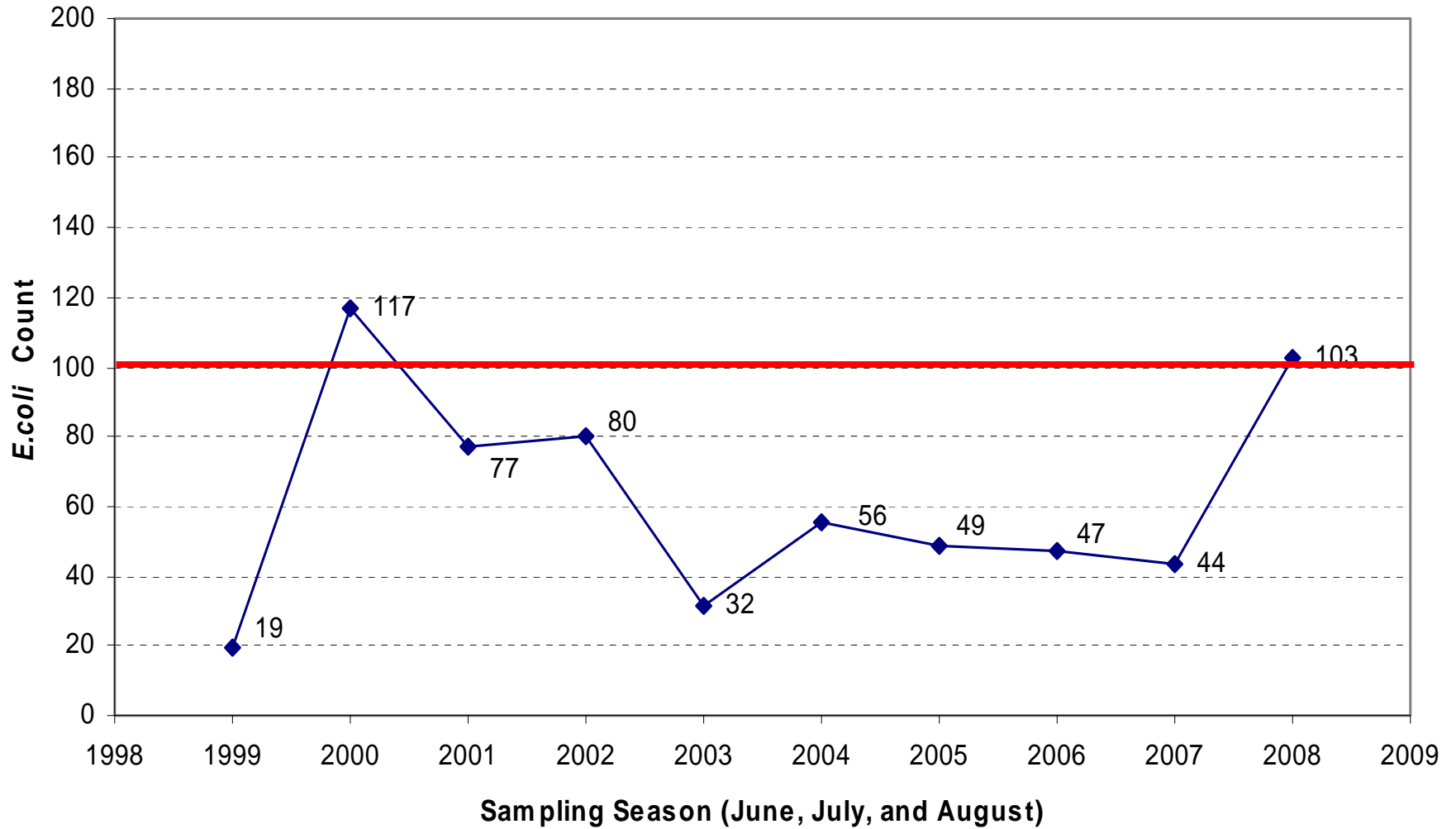
### PORT BLAKE BEACH 10 YEAR *E.COLI* GEOMETRIC TREND



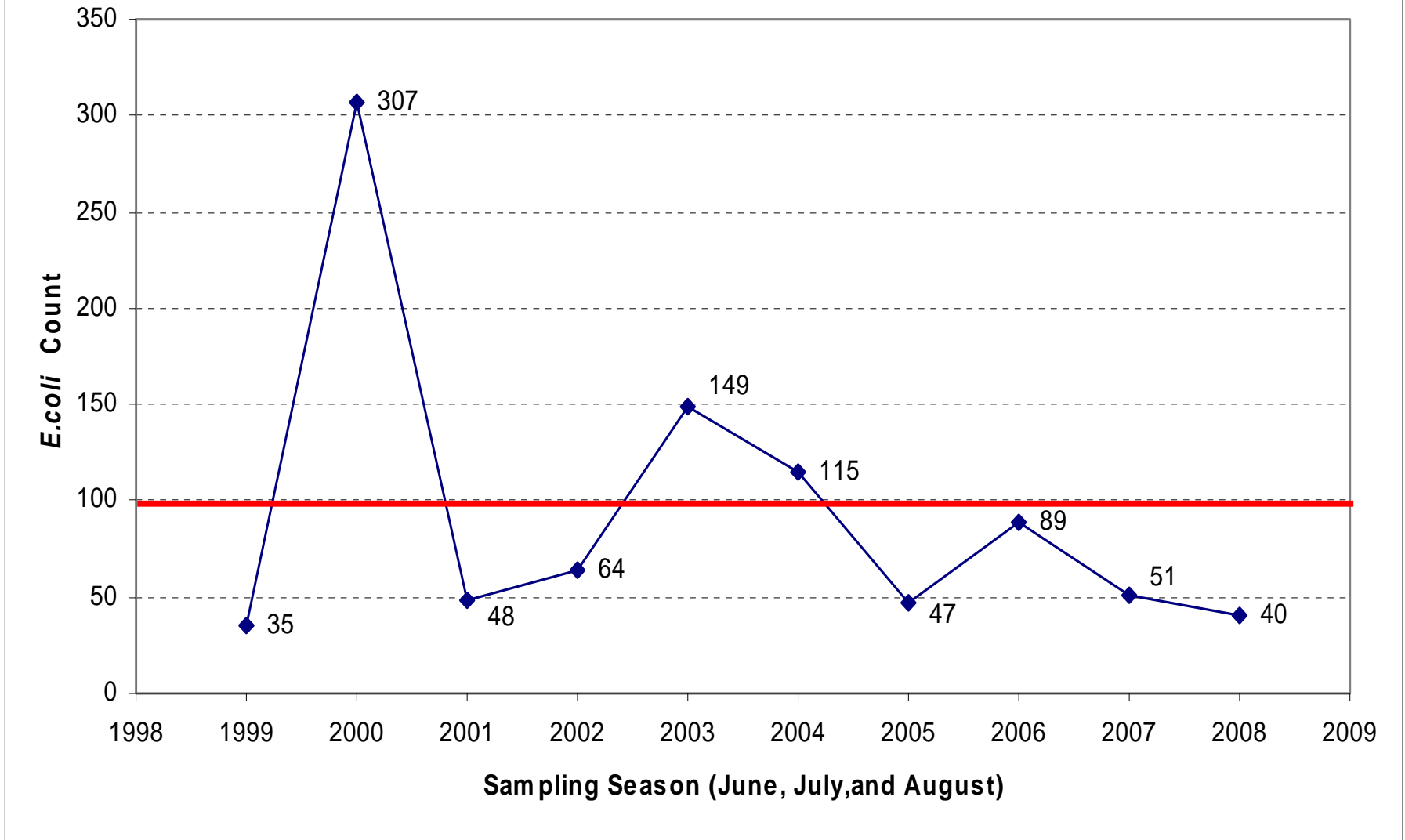
### SUNSET BEACH 10 YEAR *E.COLI* GEOMETRIC TREND



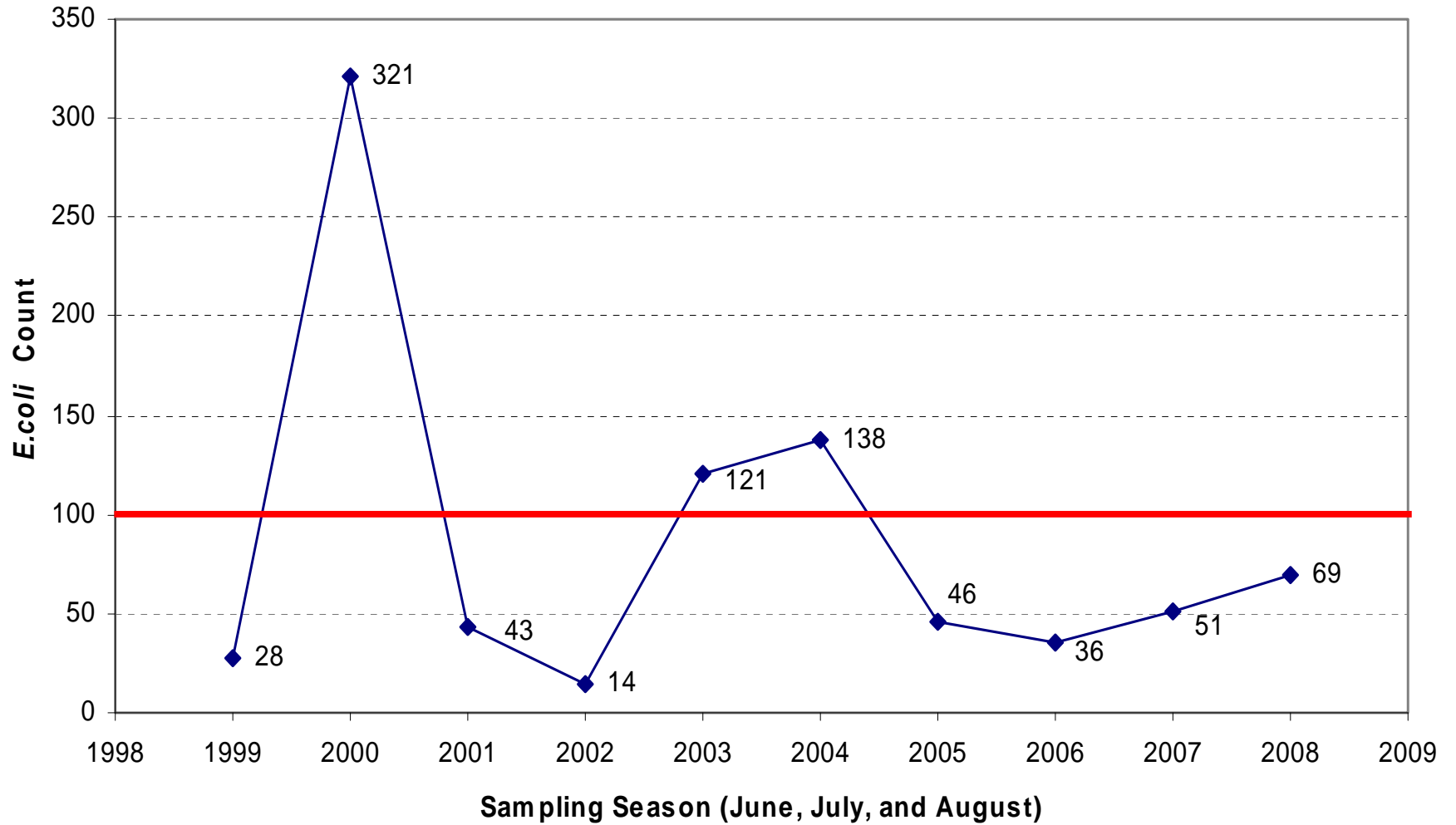
### ST. JOSEPH'S BEACH 10 YEAR *E.COLI* GEOMETRIC TREND



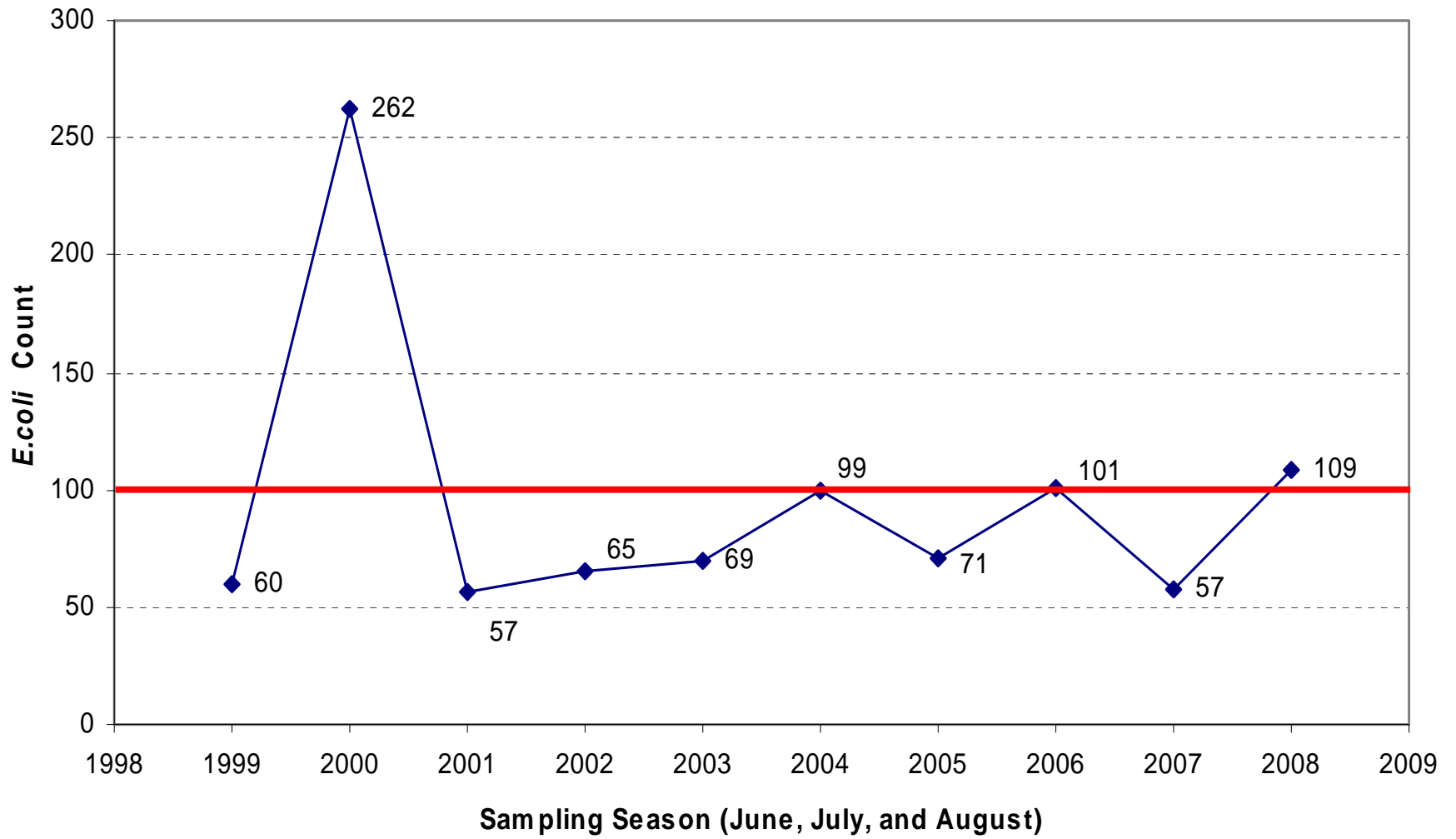
### BLUEVALE DAM 10 YEAR *E. COLI* GEOMETRIC TREND



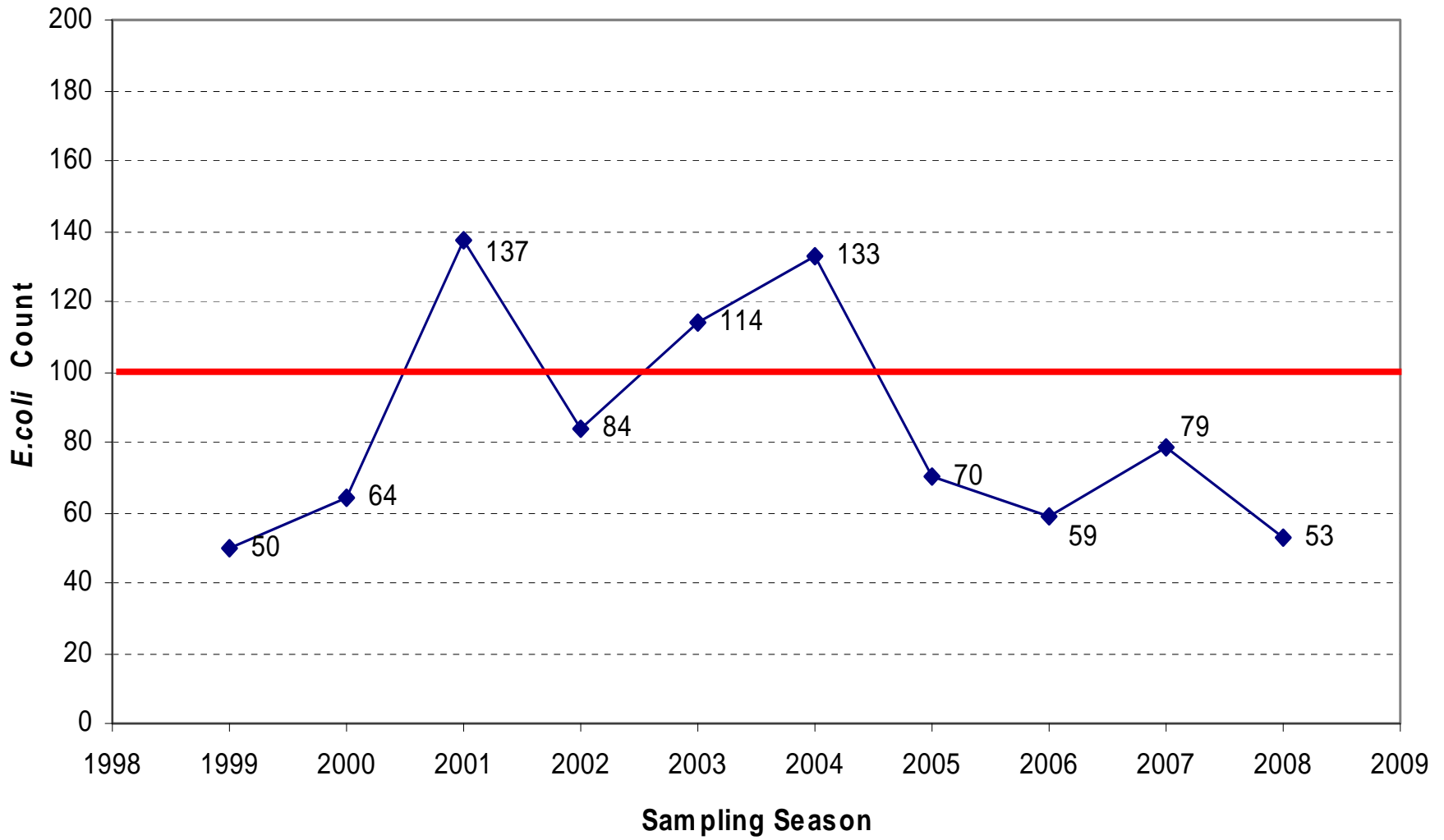
### BRUSSELS DAM 10 YEAR *E. COLI* GEOMETRIC TREND



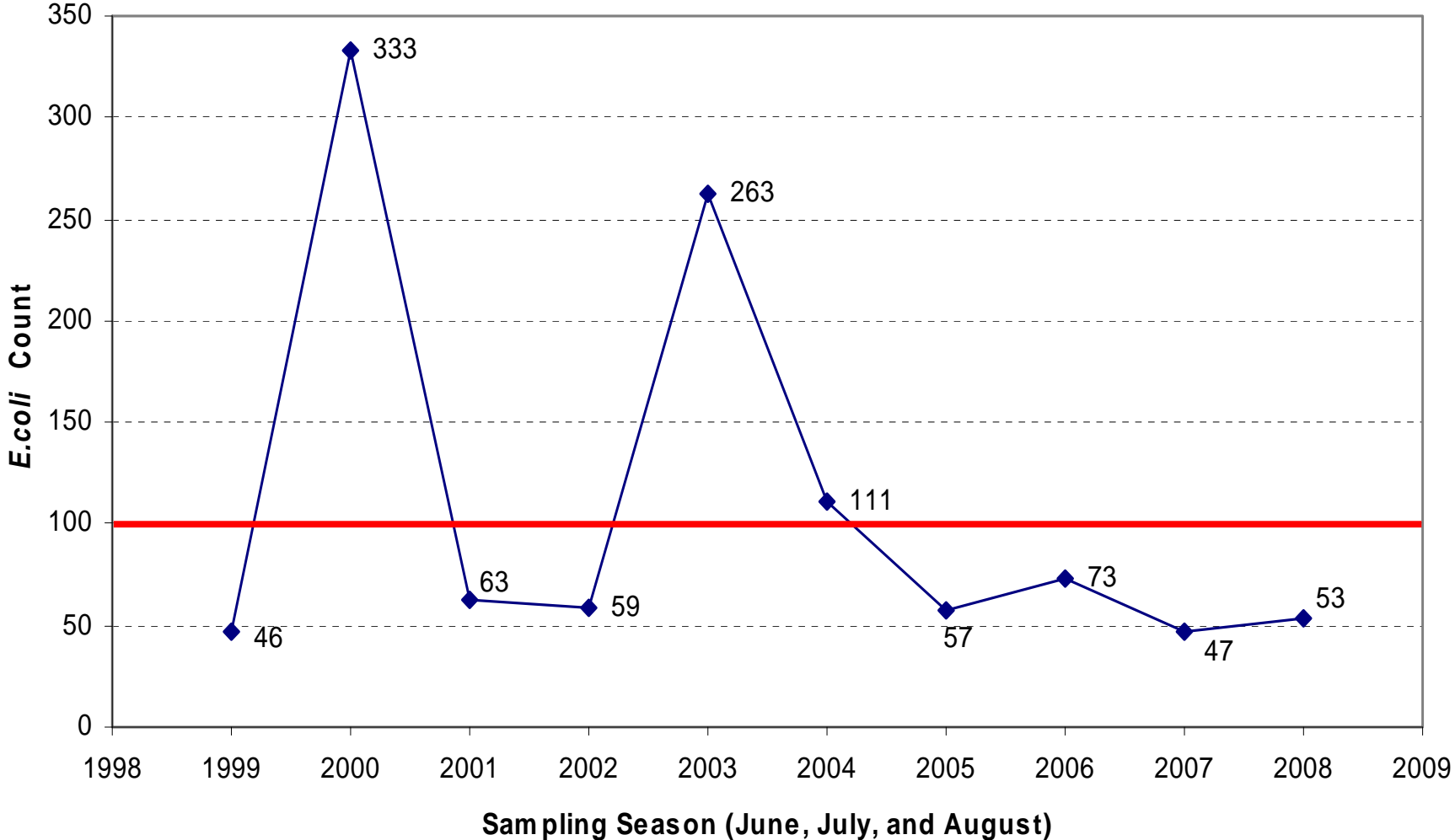
### EXETER DAM 10 YEAR *E.COLI* GEOMETRIC TREND



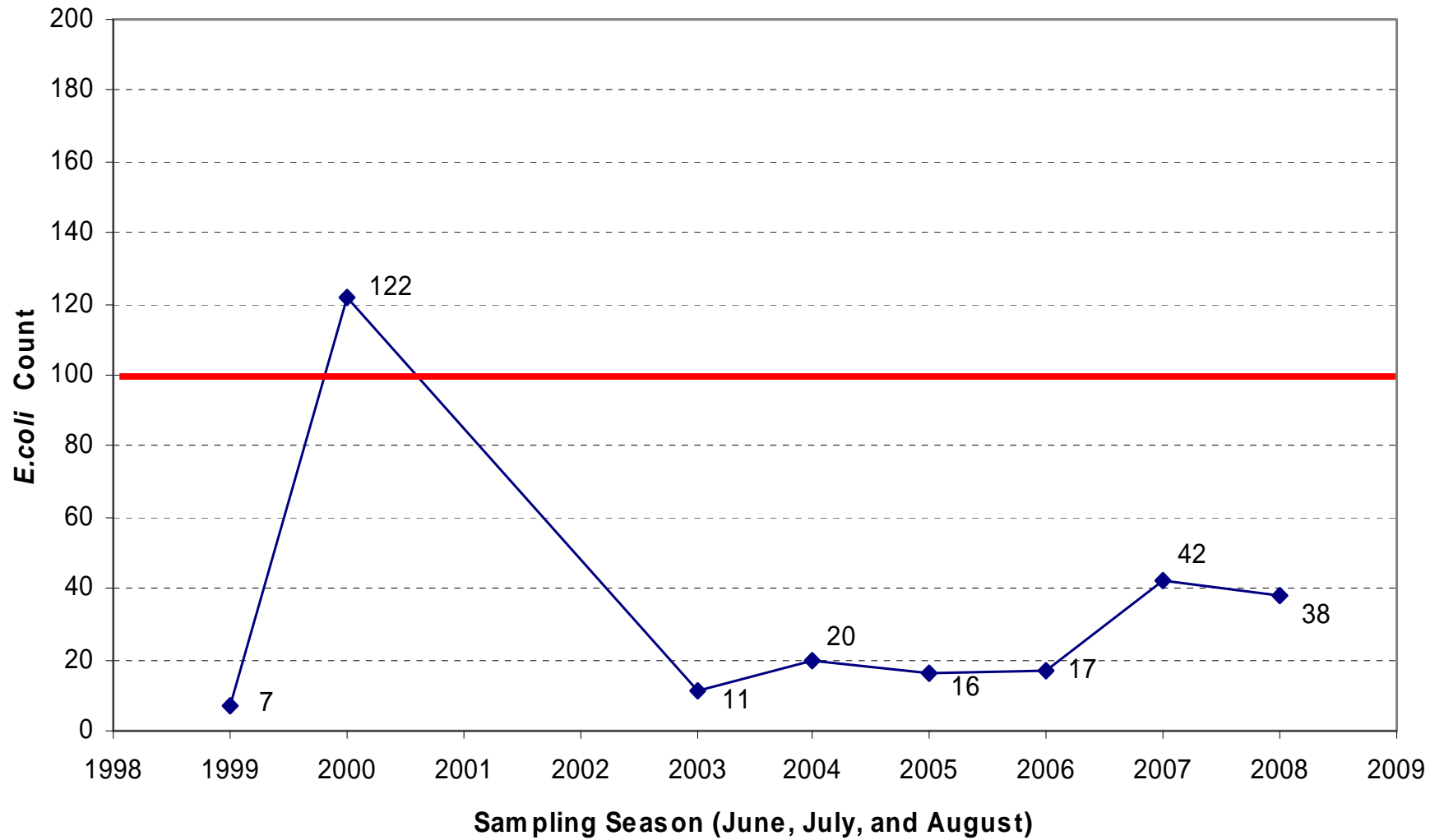
### FALLS RESERVE 10 YEAR *E.COLI* GEOMETRIC TREND



### GORRIE DAM 10 YEAR *E.COLI* GEOMETRIC TREND



### MORRISON DAM 10 YEAR *E.COLI* GEOMETRIC TREND



### WINGHAM DAM 10 YEAR *E. COLI* GEOMETRIC TREND



### WROXETER DAM 10 YEAR *E.COLI* GEOMETRIC TREND

