

## MONTHLY SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by public health service staff up until 2 October 2008. As this information may be updated over time, the results should be regarded as provisional only.

### Table of contents

1. Key notifiable disease trends	1
2. Outbreaks	3
3. Deaths from notifiable diseases	3
4. Trends in selected diseases to September 2008	3
5. Data Tables	3

### 1. Key notifiable disease trends

- *Brucellosis*: Two cases of brucellosis were notified in September 2008. Both were subsequently de-notified as under further investigation they were found not be brucellosis cases.
- *Cholera*: Under further investigation, the cholera case reported in the August 2008 Monthly Surveillance Report was found not be a case of cholera and has been de-notified.
- *Cryptosporidiosis*: 208 cryptosporidiosis cases were notified in September 2008 compared to 122 cases notified in the same month of the previous year. For the 12 month period ending 30 September 2008 the national rate was 17.1 per 100 000 population compared to 23.1 for the same 12 month period last year. Waikato DHB reported the highest number of cases (38) in September 2008 followed by Canterbury DHB (37). Among the cases for whom this information was recorded, 87.0% (80/92) had contact with farm animals, 60.6% (40/66) had consumed untreated water, 25.4% had consumed food from a food premise, 20.9% (14/67) had faecal contact, 16.4% (11/67) had recreational water contact, 13.8% (9/65) had contact with another confirmed case, and 9.0% (8/89) had travelled overseas. 13 cases were hospitalised. There were two outbreaks reported in Auckland involving 10 cases.
- *Giardiasis*: 152 giardiasis cases were notified in September 2008 compared to 88 cases notified at the same time last year. Auckland DHB reported the highest number of cases (32) followed by Counties Manukau DHB (24). Among the cases for whom this information was recorded, 64.7% (11/17) had consumed untreated water, 47.8% (11/23) had contact with farm animals. 40.9% (9/22) had consumed food from a food premise, 37.9% (11/29) had travelled overseas, 37.5% (9/24) had

contact with another case, 28.6% (6/21) had faecal contact and 19.0% (4/21) had recreational water contact during the incubation period. One case was hospitalised. Three giardiasis outbreaks from Auckland were reported involving nine cases.

- *Hydatid disease*: One confirmed case of hydatid disease was notified in September 2008. The case, a 66 year old male from Bay of Plenty DHB, was notified following an incidental finding of an old cyst in 2006. No risk factor information is currently recorded.
- *Legionellosis*: Eight cases of legionellosis were notified in September 2008 compared to one case in the same month of the previous year. The cases were from Counties Manukau (4), Waitemata, Auckland, Whanganui and Waikato DHBs (1 case each). Three cases were hospitalised. The cases were in the following age groups: 30-39 years (2), 40-49 years (2), 60-69 years (2) and 70+ years (2). The species involved was identified for five of the cases: *Legionella longbeachae* serogroup 1 (3), *L. pneumophila* serogroup 1 (1) and *L. bozemanii* serogroup 1 (1).
- *Leptospirosis*: Sixteen cases of leptospirosis were notified in September 2008 compared to three notified case at the same month in the previous year. Ten cases were confirmed and five cases were hospitalised. Five of the cases had risk factor information with exposure to farm animals.
- *Meningococcal disease*: Based on the earliest date available<sup>1</sup>, 13 cases of meningococcal disease were notified during September 2008, 10 (76.9%) of which were laboratory-confirmed. In comparison, 18 cases were notified the previous month, August 2008, and 10 cases were notified during the same month last year, September 2007. For the 12 month period ending 30 September 2008, West Coast DHB recorded the highest incidence rate of 6.2 per 100 000 population (2 cases), followed by Hawke's Bay DHB (5.2 per 100 000, 8 cases), and Northland (5.2 per 100 000, 8 cases). The highest age-specific incidence rate was in infants aged less than one year (25.9 per 100 000 population, 16 cases), followed by those in the 1-4 years age group (13.0 per 100 000 population, 30 cases), and those in the 5-9 years age group (5.2 per 100 000 population, 15 cases).
- *Pertussis*: 55 cases of pertussis were notified in September 2008 bringing the year to date total to 249. There were 11 (20%) laboratory-confirmed cases. The highest numbers of cases were reported from Capital and Coast (26) and Canterbury (12) DHBs. Capital and Coast DHB has notified an outbreak of pertussis (interim report). For the previous 12 months, Southland DHB had the highest incidence rate of 21.7 per 100 000 population (3 cases) compared to a national rate of 7.6 per 100 000 population. The current 12 month rate by age group was highest amongst infants aged less than one year (53.4 per 100 000 population, 33 cases), followed by children in the 1-4 years age group (9.5 per 100 000 population, 22 cases), and children in the 10-14 years age group (9.1 per 100 000 population, 28 cases).

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<sup>1</sup> The 'earliest' date refers to the earliest recorded date for the case (onset or hospitalisation date rather than report date, if available). 'Earliest' date, as opposed to 'report date' alone, is used throughout the analysis of meningococcal disease notification data.

- *Rickettsial disease:* Two cases of rickettsial disease were notified in September 2008. Both cases were from Waitemata DHB. One case has been de-notified as not a case and the remaining case, a 41 year old male, is still under investigation. No risk factor information is currently recorded.

## 2. Outbreaks

*Completed outbreak reports:* Twelve outbreak reports were entered into EpiSurv and completed during September 2008 (Table 1).

Table 1: Summary of completed outbreaks reported to ESR during September 2008

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Auckland	1	2
<i>Cryptosporidium</i> spp.	Auckland	1	4
<i>Escherichia coli</i> O157	Tauranga	1	3
Gastroenteritis	Waikato, Manawatu, Hutt	3	28
<i>Giardia</i>	Auckland	3	9
Influenza-like illness	Wellington	1	9
Norovirus	Tauranga	1	18
Rotavirus	Auckland	1	13
<b>Total</b>		<b>12</b>	<b>86</b>

*Interim outbreak reports:* Thirteen interim outbreaks have been reported in September 2008 (Table 2). The status of the outbreak and cases involved are subject to change, as more data becomes available.

Table 2: Summary of interim outbreaks reported to ESR during September 2008

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Wellington	1	-
<i>Cryptosporidium</i> spp.	Auckland	1	6
Gastroenteritis	Auckland, Waikato, Tauranga, Hawke's Bay, Manawatu, Wellington, Southland	8	20
Norovirus	Hutt	1	-
<i>Salmonella</i>	Auckland	1	2
<i>Shigella</i>	Auckland	1	4
<b>Total</b>		<b>13</b>	<b>32</b>

## 3. Deaths from notifiable diseases

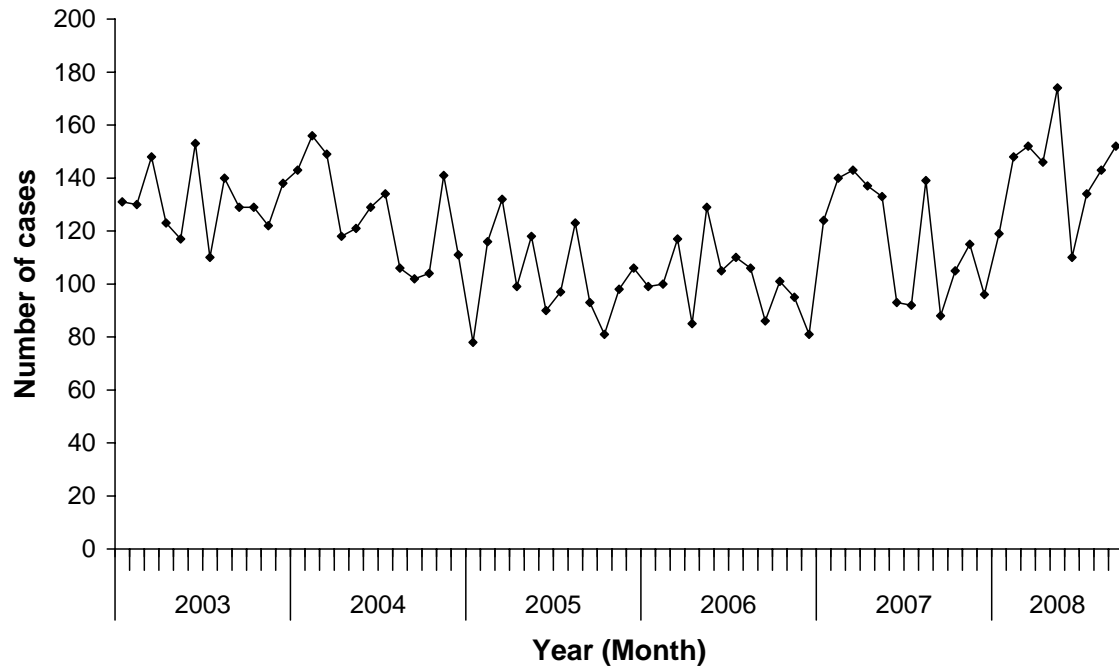
Two deaths were reported for the month of September from Tuberculosis - new case and Meningococcal disease (Table 3).

Table 3: Summary of deaths from notifiable diseases reported to ESR during September 2008

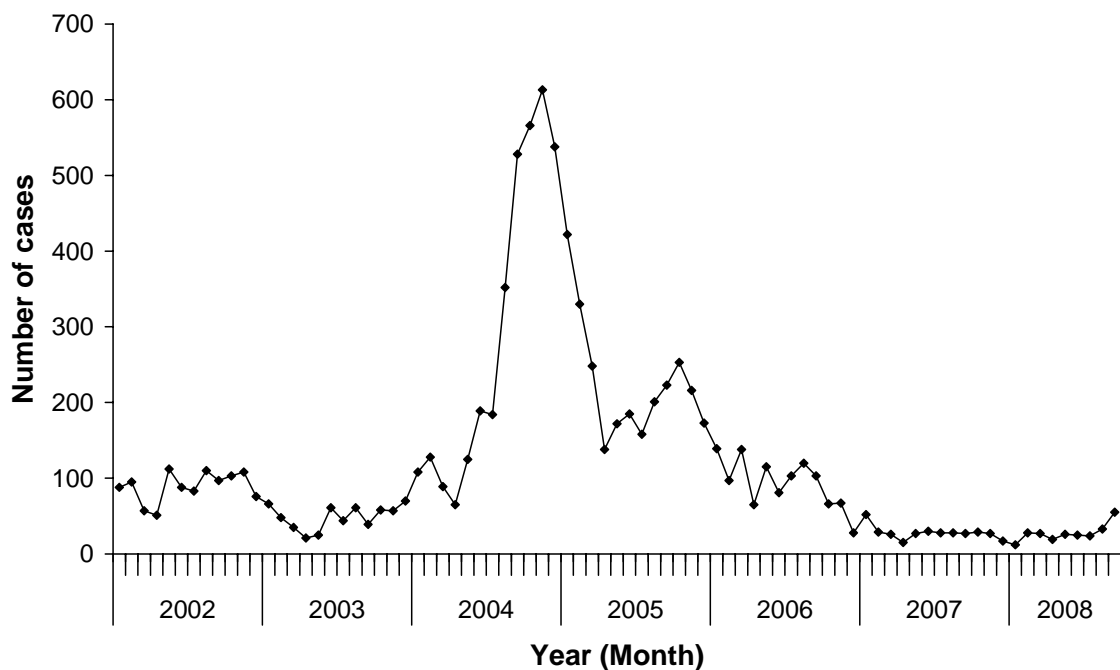
Disease	District Health Board	Age group
Meningococcal disease	Counties Manukau	1 to 4
Tuberculosis disease - new case	Auckland	20 to 29

#### 4. Trends in selected diseases to September 2008

**Figure 1: Giardiasis notifications by month by year, January 2003 – September 2008**



**Figure 2: Pertussis notifications by month by year, January 2003 – September 2008**



## 5. Data Tables

### National Surveillance Data September 2008

Disease	Current Year - 2008 <sup>1</sup>			Previous Year - 2007		
	September 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	September 2007 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	573	4340	174.9	920	9722	333.9
Cryptosporidiosis	208	451	17.1	122	652	23.1
Dengue fever	10	82	2.3	3	100	2.6
Gastroenteritis	38	430	14.4	40	443	14.5
Giardiasis	152	1278	37.7	88	1086	32.2
Haemophilus influenzae type b	0	7	0.2	1	15	0.4
Hazardous substances injury	1	2	0.1	1	2	0.0
Hepatitis A	8	72	2.0	1	31	1.0
Hepatitis B <sup>4</sup>	4	38	1.3	6	55	1.6
Hepatitis C <sup>4</sup>	2	18	0.6	2	25	0.8
Lead absorption	28	231	6.2	3	47	1.4
Legionellosis	8	57	1.8	1	44	1.3
Leptospirosis	16	86	2.4	3	52	1.6
Listeriosis	2	21	0.7	2	17	0.6
Malaria	5	28	0.9	2	15	0.5
Measles	0	9	0.4	0	15	0.5
Meningococcal disease <sup>5</sup>	14	95	2.8	9	79	2.8
Mumps	5	67	2.1	14	51	1.7
Paratyphoid fever	0	19	0.7	1	14	0.5
Pertussis	55	249	7.6	27	259	9.9
Rheumatic fever	18	217	5.4	5	128	3.5
Rickettsial disease	4	11	0.3	0	2	0.1
Rubella	0	8	0.3	0	6	0.2
Salmonellosis	98	1015	32.3	88	925	29.1
Shigellosis	15	90	2.6	13	110	3.1
Tuberculosis disease	27	230	7.1	17	213	7.2
Typhoid fever	2	25	0.7	3	42	1.5
VTEC/STEC infection	12	105	3.1	12	76	2.2
Yersiniosis	41	433	13.5	39	389	12.8

<sup>1</sup> These data are provisional

<sup>2</sup> Rate is based on the cumulative total for the current year (12 months up to and including September 2008) or the previous year (12 months up to and including September 2007), expressed as cases per 100 000

<sup>3</sup> Cases of gastroenteritis from a common source or foodborne intoxication

<sup>4</sup> Only acute cases of this disease are currently notifiable

<sup>5</sup> These totals and rates are derived from the EpiSurv report date as opposed to the earliest available date used in the meningococcal disease section of this report

<sup>6</sup> Other notifiable infectious disease reported in September: Brucellosis (2) , Hydatid disease (1)

Surveillance Data by District Health Board September 2008

		Cases <sup>1</sup> and current rate <sup>2</sup> for September 2008 by District Health Board <sup>3</sup>																				
Disease		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Otago	Southland
Campylobacteriosis	Cases	35	61	46	46	64	11	20	0	28	22	5	16	30	39	9	29	4	58	12	23	15
	Rate	184.5	196.8	186.7	137.1	181.3	167.5	146.6	104.6	214.4	205.3	160.4	148.0	209.9	202.9	118.9	153.2	161.2	159.1	260.7	172.7	174.9
Cryptosporidiosis	Cases	13	3	4	3	38	5	3	0	13	7	4	9	2	4	8	5	4	37	24	8	14
	Rate	21.4	4.9	3.9	4.3	31.2	10.8	13.3	13.1	28.0	16.3	11.0	20.7	12.7	10.3	37.9	29.0	34.1	22.0	101.4	22.1	55.3
Dengue fever	Cases	0	3	0	2	0	0	3	0	0	1	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.6	3.9	6.7	5.4	0.3	3.0	1.5	0.0	0.0	2.0	0.0	0.6	0.0	0.7	0.0	0.0	0.0	1.6	0.0	0.0	0.0
Gastroenteritis	Cases	0	11	4	2	0	0	1	0	0	0	1	2	3	2	0	0	2	10	0	0	0
	Rate	3.9	18.9	18.9	8.2	7.4	10.8	14.3	0.0	3.7	9.8	29.9	11.6	21.2	21.3	10.1	4.5	43.4	27.3	1.8	7.5	0.0
Giardiasis	Cases	5	16	32	24	13	3	3	0	1	3	0	0	5	12	1	4	1	14	3	5	7
	Rate	32.5	34.1	58.6	37.7	32.3	40.4	31.5	24.0	15.8	30.1	18.9	20.7	22.6	73.9	30.3	39.4	55.8	35.9	23.5	31.2	28.1
Haemophilus influenzae type b	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.4	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Hazardous substances injury	Cases	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.0	0.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis A	Cases	0	0	0	1	0	1	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
	Rate	1.9	1.4	2.8	3.0	1.1	2.0	0.5	0.0	0.0	0.7	6.3	11.6	2.1	1.1	5.1	1.5	0.0	0.8	0.0	0.5	0.9
Hepatitis B	Cases	0	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	1.6	3.5	0.9	0.6	3.9	0.0	2.2	1.9	0.0	1.6	0.6	2.1	1.8	2.5	1.5	0.0	1.2	0.0	0.0	0.0
Hepatitis C	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0.0	0.4	0.7	0.4	0.3	1.0	0.5	0.0	2.8	0.0	0.0	0.0	1.4	1.1	5.1	0.0	3.1	0.8	0.0	0.0	0.0
Lead absorption	Cases	0	6	15	1	1	0	0	0	1	0	0	2	0	1	0	0	0	1	0	0	0
	Rate	2.6	9.4	16.9	5.6	4.2	4.9	1.5	2.2	1.9	3.9	12.6	4.3	2.8	2.5	10.1	3.0	0.0	5.7	5.4	4.8	4.5
Legionellosis	Cases	0	1	1	4	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	Rate	1.3	1.9	3.0	2.8	0.8	2.0	2.5	0.0	0.9	3.3	1.6	0.6	1.4	1.1	0.0	0.7	0.0	2.4	1.8	0.5	0.9
Leptospirosis	Cases	2	0	0	0	4	2	3	1	0	0	1	0	0	0	0	0	1	2	0	0	0
	Rate	3.9	0.6	0.0	0.6	2.8	3.9	2.5	32.7	2.8	5.9	11.0	2.4	0.0	0.4	2.5	3.0	12.4	3.3	0.0	1.1	2.7
Listeriosis	Cases	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.6	0.2	1.3	1.4	0.0	1.5	0.0	0.0	0.0	1.6	0.6	0.7	0.4	2.5	0.0	0.0	0.8	1.8	1.1	0.0
Malaria	Cases	0	0	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.6	0.6	3.2	0.6	0.3	0.0	1.5	2.2	0.9	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	1.4	0.0	1.1	0.9
Measles	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.9	1.3	0.0	0.0	0.0	0.4	0.0	0.0	6.2	1.2	0.0	0.0	0.0
A Yb]b[ cV&VWU' X]gYUgY	Cases	0	1	1	5	0	0	0	0	1	0	0	1	0	1	0	0	1	2	0	1	0
	Rate	5.2	1.2	2.8	3.4	3.4	1.0	2.5	4.4	4.7	5.2	4.7	1.2	2.1	3.2	0.0	3.7	6.2	1.8	3.6	2.7	4.5
Mumps	Cases	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
	Rate	1.9	1.9	2.3	3.0	3.1	3.0	2.0	0.0	0.0	3.9	1.6	1.2	0.7	2.5	2.5	0.0	0.0	2.7	1.8	1.1	0.0
Paratyphoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.8	0.7	1.7	0.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.6	0.0	0.0	1.8
Pertussis	Cases	0	0	0	0	3	0	0	0	0	2	0	1	1	26	0	6	1	12	0	0	3
	Rate	7.1	3.9	2.8	4.3	19.3	3.9	4.9	4.4	1.9	5.2	0.0	4.9	2.1	13.2	5.1	17.1	9.3	9.8	9.1	6.5	21.7
Rheumatic fever	Cases	0	0	0	5	3	2	1	0	0	3	1	1	1	0	0	0	0	1	0	0	0
	Rate	8.4	2.3	2.1	4.3	6.5	43.3	33.4	4.4	0.9	7.2	1.6	3.0	2.1	4.6	2.5	0.0	0.0	0.6	0.0	0.0	0.0
Rickettsial disease	Cases	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.6	0.5	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rubella	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.0	0.4	0.0	0.0	1.0	0.0	0.0	1.3	0.0	1.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1.1	0.0
Salmonellosis	Cases	3	10	7	6	16	1	2	0	1	5	0	5	2	3	0	5	0	15	6	7	4
	Rate	24.0	21.6	22.6	20.4	37.1	27.6	48.2	24.0	39.1	28.8	20.4	31.1	36.7	34.8	53.1	47.6	18.6	34.1	61.5	60.3	46.2
Shigellosis	Cases	0	2	2	7	0	0	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0
	Rate	0.6	3.1	5.3	5.2	0.8	1.0	2.0	0.0	1.9	1.3	0.0	0.6	4.2	3.2	0.0	3.0	0.0	1.8	0.0	1.6	0.9
Tuberculosis disease	Cases	2	6	4	9	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	2
	Rate	5.2	11.1	13.4	10.5	5.7	3.9	5.4	2.2	1.9	2.6	7.9	4.3	11.3	7.1	0.0	3.7	0.0	5.7	7.2	0.5	1.8
Typhoid fever	Cases	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.4	1.6	3.0	0.3	0.0	0.0	0.0	0.0	0.7	1.6	0.6	1.4	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0
VTEC/STEC infection	Cases	2	0	5	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0
	Rate	6.5	2.1	2.3	2.2	5.4	4.9	3.0	0.0	6.5	2.0	1.6	1.2	0.7	2.5	0.0	4.5	9.3	3.9	5.4	2.2	1.8
Yersiniosis	Cases	3	2	2	2	4	0	2	0	0	1	0	1	2	1	0	2	1	12	6	0	0
	Rate	9.1	8.2	9.5	6.9	11.0	16.7	8.4	15.3	11.2	21.6	11.0	6.7	16.3	19.5	0.0	12.6	58.9	30.2	27.2	5.9	10.0

<sup>1</sup> These data are provisional

<sup>2</sup> Current rate is based on the cumulative total for the 12 months up to and including September 2008 expressed as cases per 100 000

<sup>3</sup> Further data are available from the local Medical Officer of Health

‘H\YgY’hc‘HJ’g‘UbX’f‘UH’g‘UFY’XYf]]YX’Zfca’‘h\Y’9d]Gi’fj’fYdcfhXUH’Ug’cddcgYX’hc’‘h\Y’YUf’]Ygh‘Uj‘U]’UV’Y’XUH’i’gYX’]b’‘h\Y’a‘Yb]b[‘cV&VWU’‘X]gYUgY’gYV]]cb’cZ‘h\Jg’fYdcfh

National Surveillance Data September 2008

Disease	Current Year - 2008 <sup>1</sup>			Previous Year - 2007		
	September 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	September 2007 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	573	4340	174.9	920	9722	333.9
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Dengue fever	10	82	2.3	3	100	2.6
Gastroenteritis	38	430	14.4	40	443	14.5
Giardiasis	152	1278	37.7	88	1086	32.2
Haemophilus influenzae type b	0	7	0.2	1	15	0.4
Hazardous substances injury	1	2	0.1	1	2	0.0
Hepatitis A	8	72	2.0	1	31	1.0
<YdUhhjg'6	4	38	1.3	6	55	1.6
<YdUhhjg'7	2	18	0.6	2	25	0.8
Lead absorption	28	231	6.2	3	47	1.4
Legionellosis	8	57	1.8	1	44	1.3
Leptospirosis	16	86	2.4	3	52	1.6
Listeriosis	2	21	0.7	2	17	0.6
Malaria	5	28	0.9	2	15	0.5
Measles	0	9	0.4	0	15	0.5
A Yb]b[ cWcWVW'X]gYUgy	14	95	2.8	9	79	2.8
Mumps	5	67	2.1	14	51	1.7
Paratyphoid fever	0	19	0.7	1	14	0.5
Pertussis	55	249	7.6	27	259	9.9
Rheumatic fever	18	217	5.4	5	128	3.5
Rickettsial disease	4	11	0.3	0	2	0.1
Rubella	0	8	0.3	0	6	0.2
Salmonellosis	98	1015	32.3	88	925	29.1
Shigellosis	15	90	2.6	13	110	3.1
Tuberculosis disease	27	230	7.1	17	213	7.2
Typhoid fever	2	25	0.7	3	42	1.5
VTEC/STEC infection	12	105	3.1	12	76	2.2
Yersiniosis	41	433	13.5	39	389	12.8

<sup>1</sup> These data are provisional

<sup>2</sup> Rate is based on the cumulative total for the current year (12 months up to and including September 2008) or the previous year (12 months up to and including September 2007), expressed as cases per 100 000

<sup>3</sup> Cases of gastroenteritis from a common source or foodborne intoxication

'Cb'mUW'hY'WUgY'cZ'h.]g'X]gYUgY'UFY'W'ffYbhmbch]Z]UV'Y  
'H\YgY'hcHU'g'UbX'fUH'g'UFY'XYf]j YX'Zfca' 'h'Y'9d]Gi'fj'fYdcfhXUH'Ug'cddcgYX'hc'h'Y'YUF'jYghUj U]'UV'Y'XUH'i'gYX'j'b'h'Y  
a Yb]b[ cWcWVW'X]gYUgY'gYVW]cb'cZ'h.]g'fYdcfh  
'CH'Yf'bch]Z]UV'Y'j'bZYVW]ci'g'X]gYUgY'fYdcfh'X'j'b'GYdh'a'VYf.'6fi'W'c]g]f&E'Z'<nXUH]X'X]gYUgY'fWc



Surveillance Data by District Health Board September 2008

		Cases <sup>1</sup> and current rate <sup>2</sup> for September 2008 by District Health Board <sup>3</sup>																				
Disease		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Otago	Southland
Campylobacteriosis	Cases	35	61	46	46	64	11	20	0	28	22	5	16	30	39	9	29	4	58	12	23	15
	Rate	184.5	196.8	186.7	137.1	181.3	167.5	146.6	104.6	214.4	205.3	160.4	148.0	209.9	202.9	118.9	153.2	161.2	159.1	260.7	172.7	174.9
Cryptosporidiosis	Cases	13	3	4	3	38	5	3	0	13	7	4	9	2	4	8	5	4	37	24	8	14
	Rate	21.4	4.9	3.9	4.3	31.2	10.8	13.3	13.1	28.0	16.3	11.0	20.7	12.7	10.3	37.9	29.0	34.1	22.0	101.4	22.1	55.3
Dengue fever	Cases	0	3	0	2	0	0	3	0	0	1	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.6	3.9	6.7	5.4	0.3	3.0	1.5	0.0	0.0	2.0	0.0	0.6	0.0	0.7	0.0	0.0	0.0	1.6	0.0	0.0	0.0
Gastroenteritis	Cases	0	11	4	2	0	0	1	0	0	0	1	2	3	2	0	0	2	10	0	0	0
	Rate	3.9	18.9	18.9	8.2	7.4	10.8	14.3	0.0	3.7	9.8	29.9	11.6	21.2	21.3	10.1	4.5	43.4	27.3	1.8	7.5	0.0
Giardiasis	Cases	5	16	32	24	13	3	3	0	1	3	0	0	5	12	1	4	1	14	3	5	7
	Rate	32.5	34.1	58.6	37.7	32.3	40.4	31.5	24.0	15.8	30.1	18.9	20.7	22.6	73.9	30.3	39.4	55.8	35.9	23.5	31.2	28.1
Haemophilus influenzae type b	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.4	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Hazardous substances injury	Cases	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.0	0.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis A	Cases	0	0	0	1	0	1	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
	Rate	1.9	1.4	2.8	3.0	1.1	2.0	0.5	0.0	0.0	0.7	6.3	11.6	2.1	1.1	5.1	1.5	0.0	0.8	0.0	0.5	0.9
Hepatitis B	Cases	0	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	1.6	3.5	0.9	0.6	3.9	0.0	2.2	1.9	0.0	1.6	0.6	2.1	1.8	2.5	1.5	0.0	1.2	0.0	0.0	0.0
Hepatitis C	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0.0	0.4	0.7	0.4	0.3	1.0	0.5	0.0	2.8	0.0	0.0	0.0	1.4	1.1	5.1	0.0	3.1	0.8	0.0	0.0	0.0
Lead absorption	Cases	0	6	15	1	1	0	0	0	1	0	0	2	0	1	0	0	0	1	0	0	0
	Rate	2.6	9.4	16.9	5.6	4.2	4.9	1.5	2.2	1.9	3.9	12.6	4.3	2.8	2.5	10.1	3.0	0.0	5.7	5.4	4.8	4.5
Legionellosis	Cases	0	1	1	4	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	Rate	1.3	1.9	3.0	2.8	0.8	2.0	2.5	0.0	0.9	3.3	1.6	0.6	1.4	1.1	0.0	0.7	0.0	2.4	1.8	0.5	0.9
Leptospirosis	Cases	2	0	0	0	4	2	3	1	0	0	1	0	0	0	0	0	1	2	0	0	0
	Rate	3.9	0.6	0.0	0.6	2.8	3.9	2.5	32.7	2.8	5.9	11.0	2.4	0.0	0.4	2.5	3.0	12.4	3.3	0.0	1.1	2.7
Listeriosis	Cases	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.6	0.2	1.3	1.4	0.0	1.5	0.0	0.0	0.0	1.6	0.6	0.7	0.4	2.5	0.0	0.0	0.8	1.8	1.1	0.0
Malaria	Cases	0	0	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.6	0.6	3.2	0.6	0.3	0.0	1.5	2.2	0.9	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	1.4	0.0	1.1	0.9
Measles	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.9	1.3	0.0	0.0	0.0	0.4	0.0	0.0	6.2	1.2	0.0	0.0	0.0
A Yb]b[ cV&VWU' X]gYUgY	Cases	0	1	1	5	0	0	0	0	1	0	0	1	0	1	0	0	1	2	0	1	0
	Rate	5.2	1.2	2.8	3.4	3.4	1.0	2.5	4.4	4.7	5.2	4.7	1.2	2.1	3.2	0.0	3.7	6.2	1.8	3.6	2.7	4.5
Mumps	Cases	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
	Rate	1.9	1.9	2.3	3.0	3.1	3.0	2.0	0.0	0.0	3.9	1.6	1.2	0.7	2.5	2.5	0.0	0.0	2.7	1.8	1.1	0.0
Paratyphoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.8	0.7	1.7	0.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.6	0.0	0.0	1.8
Pertussis	Cases	0	0	0	0	3	0	0	0	0	2	0	1	1	26	0	6	1	12	0	0	3
	Rate	7.1	3.9	2.8	4.3	19.3	3.9	4.9	4.4	1.9	5.2	0.0	4.9	2.1	13.2	5.1	17.1	9.3	9.8	9.1	6.5	21.7
Rheumatic fever	Cases	0	0	0	5	3	2	1	0	0	3	1	1	1	0	0	0	0	1	0	0	0
	Rate	8.4	2.3	2.1	4.3	6.5	43.3	33.4	4.4	0.9	7.2	1.6	3.0	2.1	4.6	2.5	0.0	0.0	0.6	0.0	0.0	0.0
Rickettsial disease	Cases	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.6	0.5	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rubella	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.0	0.4	0.0	0.0	1.0	0.0	0.0	1.3	0.0	1.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1.1	0.0
Salmonellosis	Cases	3	10	7	6	16	1	2	0	1	5	0	5	2	3	0	5	0	15	6	7	4
	Rate	24.0	21.6	22.6	20.4	37.1	27.6	48.2	24.0	39.1	28.8	20.4	31.1	36.7	34.8	53.1	47.6	18.6	34.1	61.5	60.3	46.2
Shigellosis	Cases	0	2	2	7	0	0	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0
	Rate	0.6	3.1	5.3	5.2	0.8	1.0	2.0	0.0	1.9	1.3	0.0	0.6	4.2	3.2	0.0	3.0	0.0	1.8	0.0	1.6	0.9
Tuberculosis disease	Cases	2	6	4	9	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	2
	Rate	5.2	11.1	13.4	10.5	5.7	3.9	5.4	2.2	1.9	2.6	7.9	4.3	11.3	7.1	0.0	3.7	0.0	5.7	7.2	0.5	1.8
Typhoid fever	Cases	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.4	1.6	3.0	0.3	0.0	0.0	0.0	0.0	0.7	1.6	0.6	1.4	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0
VTEC/STEC infection	Cases	2	0	5	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0
	Rate	6.5	2.1	2.3	2.2	5.4	4.9	3.0	0.0	6.5	2.0	1.6	1.2	0.7	2.5	0.0	4.5	9.3	3.9	5.4	2.2	1.8
Yersiniosis	Cases	3	2	2	2	4	0	2	0	0	1	0	1	2	1	0	2	1	12	6	0	0
	Rate	9.1	8.2	9.5	6.9	11.0	16.7	8.4	15.3	11.2	21.6	11.0	6.7	16.3	19.5	0.0	12.6	58.9	30.2	27.2	5.9	10.0

<sup>1</sup> These data are provisional

<sup>2</sup> Current rate is based on the cumulative total for the 12 months up to and including September 2008 expressed as cases per 100 000

<sup>3</sup> Further data are available from the local Medical Officer of Health

‘H\YgY’hc‘HJ’g‘UbX’f‘UH’g‘UFY’XYf]]YX’Zfca’‘h\Y’9d]Gi’fj’fYdcfhXUH’Ug’cddcgYX’hc’‘h\Y’YUf’]Ygh‘Uj‘U]’UV’Y’XUH’i’gYX’]b’‘h\Y’a‘Yb]b[‘cV&VWU’‘X]gYUgY’gYV]]cb’cZ‘h\Jg’fYdcfh

Surveillance Data for the 12 months ending September-2008 by District Health Board

Disease	Cases for the 12 months ending September 2008 <sup>1 2</sup> by District Health Board <sup>3</sup>																					
	Total	Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Otago	Southland
Campylobacteriosis	7396	284	1010	809	637	640	170	298	48	230	314	102	243	297	571	47	206	52	780	144	321	193
Cryptosporidiosis	723	33	25	17	20	110	11	27	6	30	25	7	34	18	29	15	39	11	108	56	41	61
Dengue fever	96	1	20	29	25	1	3	3	0	0	3	0	1	0	2	0	0	0	8	0	0	0
Gastroenteritis	609	6	97	82	38	26	11	29	0	4	15	19	19	30	60	4	6	14	134	1	14	0
Giardiasis	1594	50	175	254	175	114	41	64	11	17	46	12	34	32	208	12	53	18	176	13	58	31
Haemophilus influenzae type b	7	0	0	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	1	0	0	0
Hazardous substances injury	3	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hepatitis A	83	3	7	12	14	4	2	1	0	0	1	4	19	3	3	2	2	0	4	0	1	1
Hepatitis B	56	1	8	15	4	2	4	0	1	2	0	1	1	3	5	1	2	0	6	0	0	0
Hepatitis C	25	0	2	3	2	1	1	1	0	3	0	0	0	2	3	2	0	1	4	0	0	0
Lead absorption	262	4	48	73	26	15	5	3	1	2	6	8	7	4	7	4	4	0	28	3	9	5
Legionellosis	77	2	10	13	13	3	2	5	0	1	5	1	1	2	3	0	1	0	12	1	1	1
Leptospirosis	100	6	3	0	3	10	4	5	15	3	9	7	4	0	1	1	4	4	16	0	2	3
Listeriosis	30	0	3	1	6	5	0	3	0	0	0	1	1	1	1	1	0	0	4	1	2	0
Malaria	38	1	3	14	3	1	0	3	1	1	0	0	0	0	1	0	0	0	7	0	2	1
Measles	18	0	5	1	0	0	0	0	0	1	2	0	0	0	1	0	0	2	6	0	0	0
Meningococcal disease	120	8	6	12	16	12	1	5	2	5	8	3	2	3	9	0	5	2	9	2	5	5
Mumps	89	3	10	10	14	11	3	4	0	0	6	1	2	1	7	1	0	0	13	1	2	0
Paratyphoid fever	28	1	4	3	8	3	1	0	0	0	0	0	0	1	2	0	0	0	3	0	0	2
Pertussis	322	11	20	12	20	68	4	10	2	2	8	0	8	3	37	2	23	3	48	5	12	24
Rheumatic fever	229	13	12	9	20	23	44	68	2	1	11	1	5	3	13	1	0	0	3	0	0	0
Rickettsial disease	11	0	3	2	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	13	1	1	0	2	0	0	2	0	0	2	0	2	0	1	0	0	0	0	0	2	0
Salmonellosis	1364	37	111	98	95	131	28	98	11	42	44	13	51	52	98	21	64	6	167	34	112	51
Shigellosis	109	1	16	23	24	3	1	4	0	2	2	0	1	6	9	0	4	0	9	0	3	1
Tuberculosis disease	302	8	57	58	49	20	4	11	1	2	4	5	7	16	20	0	5	0	28	4	1	2
Typhoid fever	31	0	2	7	14	1	0	0	0	0	1	1	1	2	1	0	0	0	1	0	0	0
VTEC/STEC infection	129	10	11	10	10	19	5	6	0	7	3	1	2	1	7	0	6	3	19	3	4	2
Yersiniosis	571	14	42	41	32	39	17	17	7	12	33	7	11	23	55	0	17	19	148	15	11	11
Total	14450	498	1712	1608	1279	1270	362	670	110	367	550	194	456	503	1156	114	441	135	1744	283	604	394

<sup>1</sup> These data are provisional

<sup>2</sup> Further data are available from the local Medical Officer of Health

<sup>3</sup> These totals are derived from the EpiSurv report date as opposed to the earliest available date used in the meningococcal disease section