

## MONTHLY NOTIFIABLE DISEASE SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by public health service staff up until 6 August 2009. As this information may be updated over time, the results should be regarded as provisional only.

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### 1. Key notifiable disease trends

- *Cryptosporidiosis*: 55 cryptosporidiosis cases (41 laboratory-confirmed cases) were notified in July 2009 compared 16 notified cases during the same month of the previous year. For the 12 month period ending 31 July 2009 the national rate was 21.7 per 100 000 population compared to 15.3 for the same 12 month period last year. The cases had varied ages, ranging from less than 1 year to 70+ years, with the highest number of cases in the 1–4 years age group (17 cases). One case was hospitalised. Among the cases where risk factor information was recorded, 53.8% (7/13) had faecal contact, 50.0% (9/18) had recreational water contact, 43.8% (7/16) attended school, 15.4% (2/13) had contact with farm animals and 14.3% (2/14) had consumed food from a food premise. One case had been to Fiji during the incubation period.
- *Hepatitis B*: 14 cases of Hepatitis B (6 laboratory-confirmed cases) were notified in July 2009 compared to seven notifications in the preceding month and four notifications in same month of the previous year (Figure 1). The cases were aged between 28 and 71 years and had the following prioritised ethnicities: European (7 cases), Asian (3 cases), Maori (2 cases), Pacific Peoples (1 case), Unknown (1 case). The cases were reported from Capital and Coast (3), Auckland (2), Counties Manukau (2), Bay of Plenty (2), West Coast (2), Waitemata (1), Wairarapa (1) and Nelson Marlborough (1) DHBs. Three cases were hospitalised. Sexual contact with a confirmed case (or carrier) was reported for three cases (including one case with both household and sexual contact with a confirmed case (or carrier)). Household contact with a confirmed case (or carrier) was reported for one additional case who was also overseas during their incubation period.
- *Hydatid disease*: One laboratory-confirmed case of hydatid disease was notified in July 2009. The notification relates to a historical infection in a symptomatic 70+ year old male from Counties Manukau DHB. He had occupational exposure as digger contractor working in rural areas.

- *Measles*: 93 cases of measles (64 confirmed, 13 probable, and 16 under investigation) were notified in July 2009 compared to five notifications in the preceding month and zero notifications in the same month of the previous year (Figure 2). 45 cases were laboratory confirmed. The 93 cases were reported from Canterbury (80), Waitemata (5), Auckland (2), Counties Manukau (2), Otago (2), Northland (1) and South Canterbury (1) DHBs. Eleven cases were hospitalised. One outbreak (still ongoing) involving over 70 cases (as at 6 August 2009) was reported from Canterbury DHB. For more information on the measles situation in New Zealand, including the age, ethnicity, and vaccination status of cases, please refer to the Measles Weekly Report available from <http://www.surv.esr.cri.nz/surveillance/WeeklyMeaslesRpt.php>.
- *Meningococcal disease*: Based on the earliest date available<sup>1</sup>, 24 cases (21 laboratory-confirmed) of meningococcal disease were notified during July 2009. In comparison, 12 cases were notified the previous month, July 2009, and 16 cases were notified during the same month last year, July 2008. For the 12 month period ending 31 July 2009, Tairāwhiti DHB recorded the highest incidence rate (8.7 per 100 000 population, 4 cases), followed by Hawke's Bay DHB (7.2 per 100 000, 11 cases) and Northland DHB (6.5 per 100 000, 10 cases). The highest age-specific incidence rate was in infants aged less than one year (35.9 per 100 000 population, 23 cases), followed by those in the 1–4 years age group (13.1 per 100 000, 31 cases) and those in the 15–19 years age group (5.6 per 100 000, 18 cases).
- *Non-seasonal influenza*: In New Zealand, non seasonal influenza A (H1N1) became notifiable on 29 April 2009 and 2097 cases of influenza A (H1N1) were notified in July 2009 (2062 confirmed, 29 probable and 6 under investigation). The preceding month reported 1175 cases. There were 527 hospitalised cases. The highest number of cases was recorded from Canterbury (367 cases) followed by Capital and Coast (219 cases) and Auckland (215 cases) DHBs. For the latest information on the non seasonal influenza A (H1N1) situation in New Zealand see <http://www.moh.govt.nz/influenza-a-h1n1>.
- *Pertussis*: 110 cases of pertussis were notified in July 2009, compared to 115 notifications in the preceding month and 24 notifications in same month of the previous year. There were 22 (20.0%) laboratory-confirmed cases. The highest numbers of cases were reported from Waikato (24 cases), Canterbury (21 cases) and Capital and Coast (14 cases) DHBs. For the 12 month period ending 31 July 2009, the highest incidence rates were reported from West Coast (77.2 per 100 000 population, 25 cases) and Nelson Marlborough (73.0 per 100 000, 99 cases) DHBs compared to a national rate of 23.9 per 100 000 population. The current 12 month rate by age group was highest amongst infants aged less than one year (138.9 per 100 000 population, 89 cases), followed by children in the 1–4 years age group (41.1 per 100 000, 97 cases).
- *Taeniasis*: One laboratory-confirmed case was notified with taeniasis in July 2009. The case was male in the 20-29 years age group from Auckland DHB. The case had been to India and then Thailand during the incubation period.

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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.

## 2. Outbreaks

*Completed outbreak reports:* 21 outbreak reports were entered into EpiSurv and completed during July 2009 (Table 1).

Table 1: Summary of completed outbreaks reported to ESR during July 2009

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Cryptosporidium</i>	Auckland	1	6
Gastroenteritis	Auckland, Wellington, Canterbury	5	81
Influenza A virus	Taranaki, Manawatu	2	30
Influenza-like Illness	Manawatu	1	56
Norovirus	Auckland, Manawatu, Wellington, Canterbury, South Canterbury	8	376
Rotavirus	Taranaki, Canterbury	2	66
<i>Salmonella</i>	Auckland	2	14
<b>Total</b>		21	629

*Interim outbreak reports:* 53 interim outbreaks have been reported in July 2009. 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 July 2009

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Bordetella</i>	Hutt	1	4
<i>Campylobacter</i>	Wellington	1	3
<i>Cryptosporidium</i>	Auckland	1	8
Gastroenteritis	Auckland, Waikato, Eastern Bay of Plenty, Tauranga, Hawke's Bay, Taranaki, Wellington, Otago, Southland	35	178
Influenza A virus	Auckland, Manawatu	2	59
Influenza-like Illness	Manawatu	2	78
Measles	Canterbury	1	73
Norovirus	Waikato, Hawke's Bay, Taranaki, Wellington	5	66
Rotavirus	Auckland, Waikato	2	38
<i>Salmonella</i>	Auckland, Hawke's Bay	2	4
Upper Respiratory Illness	Rotorua	1	8
<b>Total</b>		53	519

### 3. Deaths from notifiable diseases

Fifteen deaths were reported for the month of July from invasive pneumococcal disease, meningococcal disease and non seasonal influenza A (H1N1) (Table 3).

Table 3: Summary of deaths from notifiable diseases reported to ESR during July 2009

<b>Disease</b>	<b>District Health Board</b>	<b>Age group</b>
Invasive pneumococcal disease	Auckland	70+
Invasive pneumococcal disease	Counties Manukau	50 to 59
Invasive pneumococcal disease	Otago	30 to 39
Invasive pneumococcal disease	Otago	60 to 69
Meningococcal disease	Auckland	20 to 29
Non seasonal influenza A(H1N1)	Auckland	20 to 29
Non seasonal influenza A(H1N1)	Auckland	30 to 39
Non seasonal influenza A(H1N1)	Waitemata	40 to 49
Non seasonal influenza A(H1N1)	Counties Manukau	30 to 39
Non seasonal influenza A(H1N1)	Counties Manukau	40 to 49
Non seasonal influenza A(H1N1)	Counties Manukau	50 to 59
Non seasonal influenza A(H1N1)	MidCentral	1 to 4
Non seasonal influenza A(H1N1)	Hutt Valley	70+
Non seasonal influenza A(H1N1)	Capital and Coast	30 to 39
Non seasonal influenza A(H1N1)	Canterbury	50 to 59

#### 4. Trends in selected diseases to July 2009

Figure 1: Hepatitis B notifications by month by year, January 2004 – July 2009

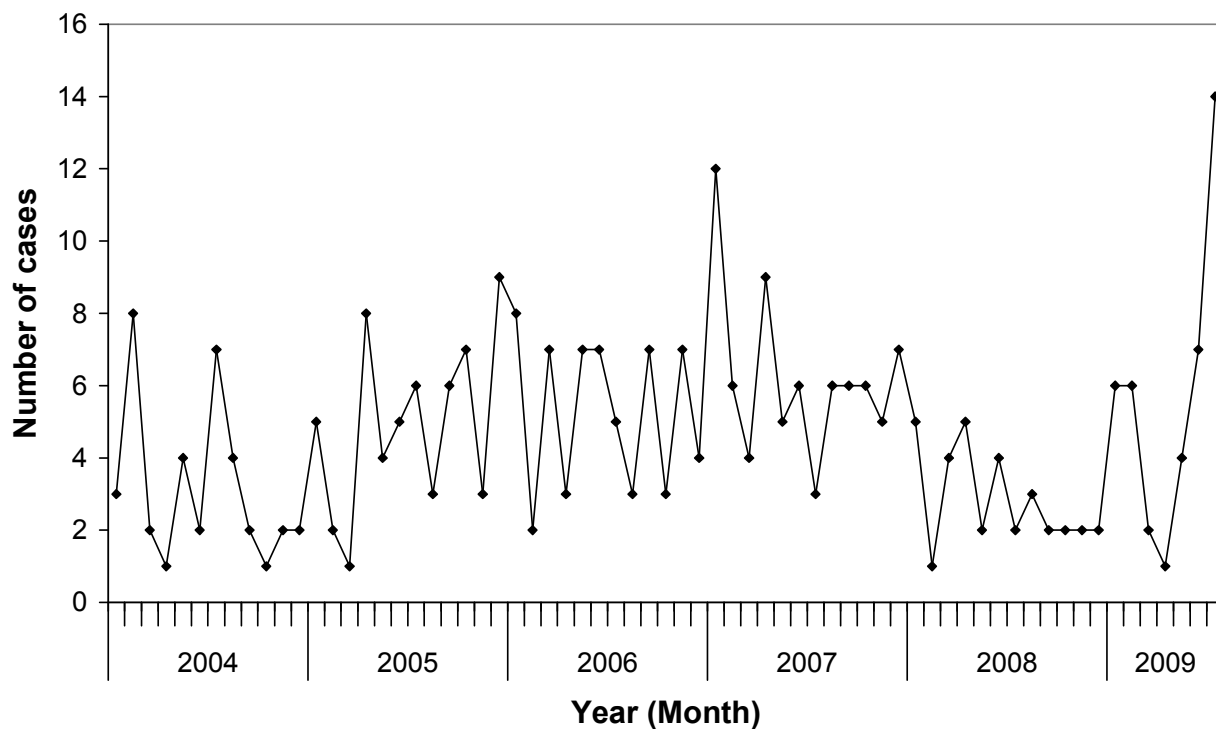
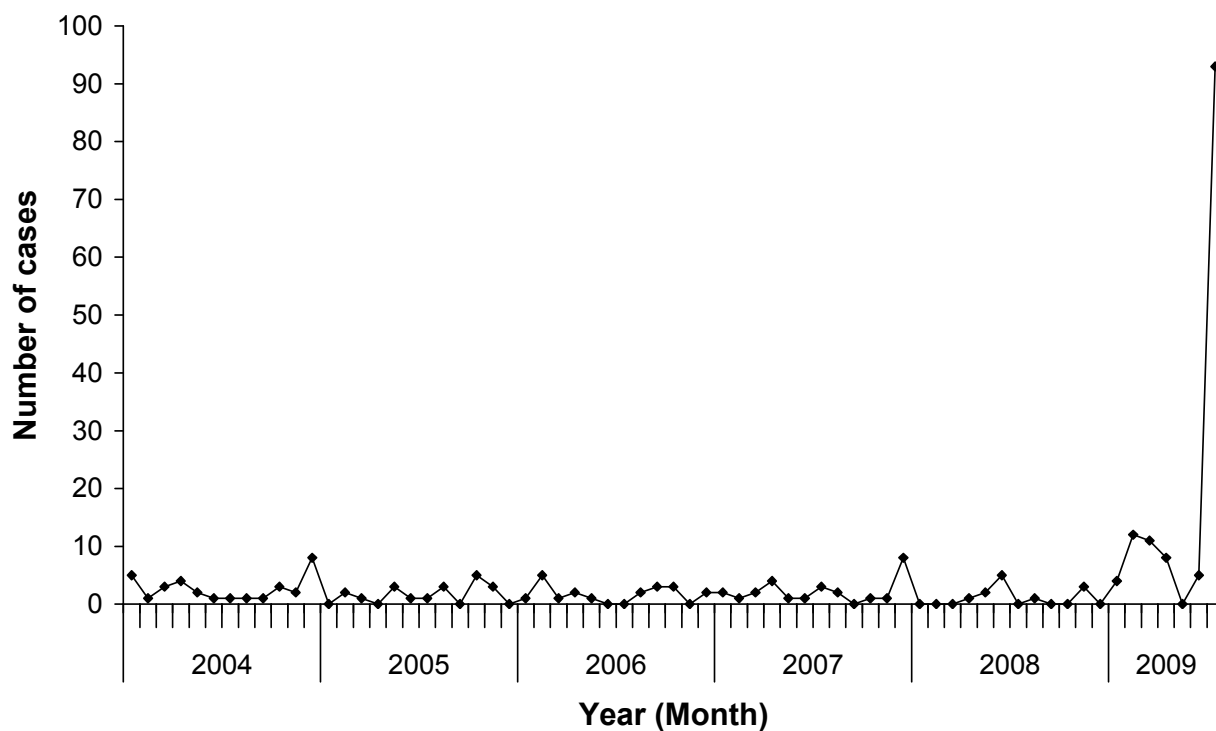


Figure 2: Measles notifications by month by year, January 2004 – July 2009



## 5. Data Tables

**National Notifiable Disease Surveillance Data July 2009**

Disease	Current Year - 2009 <sup>1</sup>			Previous Year - 2008		
	July 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	July 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	416	3558	165.2	387	3199	188.2
Cryptosporidiosis	55	353	21.7	16	192	15.3
Dengue fever	6	121	4.0	14	64	1.9
Gastroenteritis	60	353	16.0	62	357	14.7
Giardiasis	118	1002	39.4	133	980	35.7
Haemophilus influenzae type b	1	7	0.2	0	7	0.2
Hazardous substances injury	0	3	0.2	0	1	0.1
Hepatitis A	5	27	1.5	21	54	1.7
Hepatitis B <sup>4</sup>	14	40	1.2	4	27	1.3
Hepatitis C <sup>4</sup>	8	28	0.9	4	14	0.6
Invasive pneumococcal disease <sup>5</sup>	114	404	12.4	0	0	0.0
Lead absorption	36	247	9.7	22	150	4.4
Legionellosis	1	45	1.9	2	35	1.3
Leptospirosis	6	40	2.2	13	62	1.9
Listeriosis	3	15	0.7	3	14	0.6
Malaria	5	30	1.2	0	19	0.8
Measles	93	133	3.2	0	8	0.4
Meningococcal disease <sup>6</sup>	23	68	3.0	17	64	2.5
Mumps	8	35	1.3	7	57	2.3
Non seasonal influenza A (H1N1) <sup>7</sup>	2097	3310	77.5	0	0	0.0
Paratyphoid fever	2	15	0.6	0	14	0.6
Pertussis	110	764	23.9	24	161	6.7
Rheumatic fever	10	90	3.5	26	94	3.0
Rickettsial disease	0	2	0.2	3	4	0.1
Rubella	1	6	0.2	1	6	0.3
Salmonellosis	61	731	29.1	56	834	31.9
Shigellosis	6	80	3.0	7	67	2.5
Tuberculosis disease	28	177	7.0	27	176	6.9
Typhoid fever	1	29	0.9	6	20	0.7
VTEC/STEC infection	6	99	3.3	2	84	3.0
Yersiniosis	23	263	10.5	33	324	12.9

<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 July 2009) or the previous year (12 months up to and including July 2008), 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> Invasive pneumococcal disease became a notifiable disease on the 17th October 2008

<sup>6</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 July: Hydatid disease (1), Poliomyelitis (1), Taeniasis (1)

<sup>7</sup> Non-seasonal influenza (capable of transmission between human beings) became an infectious notifiable disease on 29 April 2009.

Notifiable Disease Surveillance Data by District Health Board July 2009

		Cases <sup>1</sup> and current rate <sup>2</sup> for July 2009 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	13	52	61	42	32	12	18	0	8	42	14	8	21	44	5	8	2	21	7	5	1
	Rate	148.0	176.7	176.2	143.9	175.2	166.5	138.7	50.1	198.7	206.1	195.8	142.0	237.5	230.7	158.5	162.9	135.9	118.4	247.7	131.4	153.4
Cryptosporidiosis	Cases	0	8	5	0	5	1	3	0	0	0	0	1	2	23	0	3	0	3	0	0	1
	Rate	20.0	10.0	10.3	7.4	32.8	20.7	13.6	13.1	26.0	24.8	22.1	21.9	13.4	33.4	47.8	20.6	52.5	28.6	97.6	23.0	51.4
Dengue fever	Cases	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	1.9	3.8	6.8	11.4	1.7	1.0	3.4	4.4	0.9	2.6	3.2	2.4	1.4	4.6	2.5	0.7	3.1	3.2	0.0	0.5	0.9
Gastroenteritis	Cases	0	9	21	2	3	0	4	0	1	0	0	2	1	14	0	0	0	1	1	1	0
	Rate	2.6	21.5	24.7	13.3	7.9	6.9	5.8	4.4	0.9	3.3	28.4	64.9	29.6	27.1	2.5	2.2	15.4	15.3	16.3	2.1	0.9
Giardiasis	Cases	4	10	11	10	16	5	4	0	10	9	0	3	5	15	1	2	1	9	1	2	0
	Rate	32.3	32.1	55.7	41.8	41.3	65.0	26.3	24.0	37.1	48.3	20.5	9.7	31.0	60.1	32.7	36.1	49.4	35.7	30.7	32.0	49.6
Haemophilus influenzae type b	Cases	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.4	0.0	0.2	0.3	0.0	0.5	0.0	0.0	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Hazardous substances injury	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	0.6	0.5	0.0	0.8	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	1.1	0.0
Hepatitis A	Cases	0	1	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	Rate	1.9	1.0	2.3	1.3	0.3	1.0	1.5	0.0	1.9	2.6	14.2	5.5	2.1	1.1	0.0	0.0	0.0	0.6	0.0	0.0	0.0
Hepatitis B	Cases	0	1	2	2	0	0	2	0	0	0	0	0	0	3	1	1	2	0	0	0	0
	Rate	0.0	1.3	3.2	1.1	0.0	0.0	1.9	0.0	1.9	0.0	0.0	1.2	0.0	1.1	5.0	1.5	6.2	1.4	0.0	0.0	0.9
Hepatitis C	Cases	1	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	4	0	0	0
	Rate	0.6	0.2	0.9	0.8	0.3	3.0	0.5	0.0	5.6	0.0	0.0	1.2	0.0	0.7	2.5	0.0	0.0	2.0	0.0	0.5	0.0
ꞡb] Uglj Y dbYi a cV&VWU' X]gYUgY	Cases	3	4	11	17	11	2	6	4	2	11	1	6	7	5	3	2	0	11	1	6	1
	Rate	8.4	8.6	10.5	15.8	19.7	18.7	15.6	13.1	14.9	18.9	7.9	7.3	14.1	7.4	25.2	12.5	3.1	9.9	12.7	12.8	12.6
Lead absorption	Cases	1	7	2	3	0	1	1	0	0	0	1	2	2	0	1	2	0	6	0	4	3
	Rate	1.9	11.3	29.0	12.5	8.4	5.9	4.4	10.9	4.6	2.6	15.8	10.3	7.8	3.9	7.5	2.9	0.0	5.4	1.8	8.0	7.2
Legionellosis	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	2.5	1.8	1.9	1.4	1.0	3.9	0.0	1.9	2.6	1.6	0.0	1.4	1.1	5.0	1.5	6.2	2.4	5.4	2.1	0.9
Leptospirosis	Cases	1	0	0	0	0	0	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	7.1	0.0	0.2	0.0	4.5	3.9	5.4	8.7	6.5	5.9	7.9	1.8	0.0	0.0	2.5	2.2	12.4	1.6	1.8	3.2	1.8
Listeriosis	Cases	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	1.0	1.1	1.3	0.3	0.0	0.5	2.2	0.0	0.0	1.6	0.6	0.0	0.4	0.0	0.0	0.0	0.4	0.0	1.6	0.0
Malaria	Cases	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	1.3	2.1	3.6	0.6	0.0	1.5	0.0	0.9	0.7	0.0	0.0	0.7	0.7	0.0	0.0	6.2	0.8	0.0	0.5	0.0
Measles	Cases	1	5	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	80	1	2	0
	Rate	0.6	1.3	0.7	0.4	0.3	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.4	0.0	0.0	0.0	17.5	1.8	17.6	0.0
A Yb]b[ cV&VWU' X]gYUgY	Cases	3	3	2	2	2	0	2	2	0	3	0	0	2	2	0	0	0	0	0	0	0
	Rate	6.5	1.5	1.6	4.2	2.2	4.9	2.4	8.7	2.8	6.5	4.7	1.8	4.2	3.2	5.0	2.9	3.1	1.6	1.8	3.2	2.7
Mumps	Cases	1	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	4	0	0	0
	Rate	2.6	0.8	0.9	0.6	2.2	1.0	1.9	0.0	0.0	2.0	1.6	0.0	2.8	1.1	2.5	0.7	0.0	2.0	3.6	0.5	0.0
Bcb'gYUgcbU' ]bZi YbnU'5'f'k%B%&	Cases	111	178	215	146	120	23	58	20	26	134	61	63	96	219	24	64	51	367	43	45	33
	Rate	107.3	59.2	78.5	60.0	42.4	44.3	45.3	45.8	26.9	109.6	104.2	44.9	162.8	170.5	80.5	56.0	182.2	110.1	90.4	25.6	30.7
Paratyphoid fever	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	0.8	1.1	1.1	0.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	2.5	0.0	0.0	1.0	0.0	0.0	0.9
Pertussis	Cases	0	6	8	3	24	3	6	1	3	1	0	2	6	14	0	5	1	21	2	0	4
	Rate	9.0	11.3	9.1	10.1	38.5	23.6	21.9	13.1	16.7	15.7	9.5	14.6	31.0	29.2	17.6	73.0	77.2	49.4	47.0	8.5	27.1
Rheumatic fever	Cases	2	0	1	3	2	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
	Rate	9.0	1.9	2.1	8.7	7.6	4.9	1.9	6.5	0.9	3.9	1.6	3.6	5.6	3.2	2.5	0.7	0.0	0.4	0.0	0.0	0.0
Rickettsial disease	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	0.2	0.2	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rubella	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.7	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.8	0.0	0.0	0.0
Salmonellosis	Cases	3	2	4	9	7	3	0	0	0	12	0	3	1	2	1	3	1	5	0	4	1
	Rate	28.4	19.2	24.7	22.8	32.6	31.5	26.8	58.8	21.4	36.5	20.5	20.6	28.9	22.9	45.3	36.1	30.9	33.1	66.9	49.7	45.1
Shigellosis	Cases	0	0	2	1	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	1.9	4.8	4.8	5.5	1.7	2.0	2.9	2.2	0.0	0.7	0.0	0.0	2.1	2.8	2.5	5.2	3.1	1.4	3.6	1.6	2.7
Tuberculosis disease	Cases	1	4	6	5	1	0	2	0	0	0	0	1	0	3	0	0	0	3	2	0	0
	Rate	7.1	8.6	13.2	13.1	5.9	3.9	3.4	0.0	1.9	5.2	0.0	4.2	7.8	9.1	0.0	3.7	0.0	5.2	3.6	0.5	1.8
Typhoid fever	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	1.2	2.1	3.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0
VTEC/STEC infection	Cases	1	0	2	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0
	Rate	5.8	1.7	6.2	1.7	6.7	3.9	2.9	13.1	6.5	2.0	0.0	1.2	2.1	1.8	5.0	0.0	3.1	3.6	5.4	1.6	0.9
Yersiniosis	Cases	0	3	9	1	2	1	1	0	1	0	1	0	0	1	0	0	0	2	0	1	0
	Rate	9.0	8.5	15.3	5.5	7.0	7.9	8.3	4.4	18.6	11.1	1.6	1.2	20.4	20.0	5.0	5.2	34.0	15.1	21.7	3.2	5.4

<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 July 2009 expressed as cases per 100 000

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

ꞡb] Uglj Y dbYi a cV&VWU' X]gYUgY VYWUa Y U' bch]ZUV Y X]gYUgY cb h Y %+h c V&VWU' VYf' &\$ \$,

h Y Yg Y h c H U g Ub X f U H Y g U F Y X Y f j Y X Z f c a h Y Y 9 d j G i f j f Y d c f h X U H Y U g c d d c g Y X h c h Y Y U f Y g h U j U j U V Y X U H i g Y X j b h Y a Y b j b[ c V&VWU' X]gYUgY g Y W U c b c Z h j g f Y d c f h B c b j g Y U g c b U j b Z i Y b n U f W U d U V Y c Z h f U b g a j g g j c b V Y h Y Y b i a U b V Y j b[ g k V Y W U a Y U b j b Z Y W i c i g b c h j Z U V Y X j g Y U g Y c b &- 5 d f j ' &\$ \$- "

Notifiable Disease Surveillance Data by District Health Board July 2009

		Cases <sup>1</sup> and current rate <sup>2</sup> for July 2009 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	13	52	61	42	32	12	18	0	8	42	14	8	21	44	5	8	2	21	7	5	1
	Rate	148.0	176.7	176.2	143.9	175.2	166.5	138.7	50.1	198.7	206.1	195.8	142.0	237.5	230.7	158.5	162.9	135.9	118.4	247.7	131.4	153.4
Cryptosporidiosis	Cases	0	8	5	0	5	1	3	0	0	0	0	1	2	23	0	3	0	3	0	0	1
	Rate	20.0	10.0	10.3	7.4	32.8	20.7	13.6	13.1	26.0	24.8	22.1	21.9	13.4	33.4	47.8	20.6	52.5	28.6	97.6	23.0	51.4
Dengue fever	Cases	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	1.9	3.8	6.8	11.4	1.7	1.0	3.4	4.4	0.9	2.6	3.2	2.4	1.4	4.6	2.5	0.7	3.1	3.2	0.0	0.5	0.9
Gastroenteritis	Cases	0	9	21	2	3	0	4	0	1	0	0	2	1	14	0	0	0	1	1	1	0
	Rate	2.6	21.5	24.7	13.3	7.9	6.9	5.8	4.4	0.9	3.3	28.4	64.9	29.6	27.1	2.5	2.2	15.4	15.3	16.3	2.1	0.9
Giardiasis	Cases	4	10	11	10	16	5	4	0	10	9	0	3	5	15	1	2	1	9	1	2	0
	Rate	32.3	32.1	55.7	41.8	41.3	65.0	26.3	24.0	37.1	48.3	20.5	9.7	31.0	60.1	32.7	36.1	49.4	35.7	30.7	32.0	49.6
Haemophilus influenzae type b	Cases	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.4	0.0	0.2	0.3	0.0	0.5	0.0	0.0	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Hazardous substances injury	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	0.6	0.5	0.0	0.8	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	1.1	0.0
Hepatitis A	Cases	0	1	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	Rate	1.9	1.0	2.3	1.3	0.3	1.0	1.5	0.0	1.9	2.6	14.2	5.5	2.1	1.1	0.0	0.0	0.0	0.6	0.0	0.0	0.0
Hepatitis B	Cases	0	1	2	2	0	0	2	0	0	0	0	0	0	3	1	1	2	0	0	0	0
	Rate	0.0	1.3	3.2	1.1	0.0	0.0	1.9	0.0	1.9	0.0	0.0	1.2	0.0	1.1	5.0	1.5	6.2	1.4	0.0	0.0	0.9
Hepatitis C	Cases	1	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	4	0	0	0
	Rate	0.6	0.2	0.9	0.8	0.3	3.0	0.5	0.0	5.6	0.0	0.0	1.2	0.0	0.7	2.5	0.0	0.0	2.0	0.0	0.5	0.0
HbA1c ≥ 6.5% diabetes	Cases	3	4	11	17	11	2	6	4	2	11	1	6	7	5	3	2	0	11	1	6	1
	Rate	8.4	8.6	10.5	15.8	19.7	18.7	15.6	13.1	14.9	18.9	7.9	7.3	14.1	7.4	25.2	12.5	3.1	9.9	12.7	12.8	12.6
Lead absorption	Cases	1	7	2	3	0	1	1	0	0	0	1	2	2	0	1	2	0	6	0	4	3
	Rate	1.9	11.3	29.0	12.5	8.4	5.9	4.4	10.9	4.6	2.6	15.8	10.3	7.8	3.9	7.5	2.9	0.0	5.4	1.8	8.0	7.2
Legionellosis	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	2.5	1.8	1.9	1.4	1.0	3.9	0.0	1.9	2.6	1.6	0.0	1.4	1.1	5.0	1.5	6.2	2.4	5.4	2.1	0.9
Leptospirosis	Cases	1	0	0	0	0	0	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	Rate	7.1	0.0	0.2	0.0	4.5	3.9	5.4	8.7	6.5	5.9	7.9	1.8	0.0	0.0	2.5	2.2	12.4	1.6	1.8	3.2	1.8
Listeriosis	Cases	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	1.0	1.1	1.3	0.3	0.0	0.5	2.2	0.0	0.0	1.6	0.6	0.0	0.4	0.0	0.0	0.0	0.4	0.0	1.6	0.0
Malaria	Cases	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	1.3	2.1	3.6	0.6	0.0	1.5	0.0	0.9	0.7	0.0	0.0	0.7	0.7	0.0	0.0	6.2	0.8	0.0	0.5	0.0
Measles	Cases	1	5	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	80	1	2	0
	Rate	0.6	1.3	0.7	0.4	0.3	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.4	0.0	0.0	0.0	17.5	1.8	17.6	0.0
Meningitis (bacterial)	Cases	3	3	2	2	2	0	2	2	0	3	0	0	2	2	0	0	0	0	0	0	0
	Rate	6.5	1.5	1.6	4.2	2.2	4.9	2.4	8.7	2.8	6.5	4.7	1.8	4.2	3.2	5.0	2.9	3.1	1.6	1.8	3.2	2.7
Mumps	Cases	1	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	4	0	0	0
	Rate	2.6	0.8	0.9	0.6	2.2	1.0	1.9	0.0	0.0	2.0	1.6	0.0	2.8	1.1	2.5	0.7	0.0	2.0	3.6	0.5	0.0
Non-communicable diseases (all)	Cases	111	178	215	146	120	23	58	20	26	134	61	63	96	219	24	64	51	367	43	45	33
	Rate	107.3	59.2	78.5	60.0	42.4	44.3	45.3	45.8	26.9	109.6	104.2	44.9	162.8	170.5	80.5	56.0	182.2	110.1	90.4	25.6	30.7
Paratyphoid fever	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	0.8	1.1	1.1	0.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	2.5	0.0	0.0	1.0	0.0	0.0	0.9
Pertussis	Cases	0	6	8	3	24	3	6	1	3	1	0	2	6	14	0	5	1	21	2	0	4
	Rate	9.0	11.3	9.1	10.1	38.5	23.6	21.9	13.1	16.7	15.7	9.5	14.6	31.0	29.2	17.6	73.0	77.2	49.4	47.0	8.5	27.1
Rheumatic fever	Cases	2	0	1	3	2	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
	Rate	9.0	1.9	2.1	8.7	7.6	4.9	1.9	6.5	0.9	3.9	1.6	3.6	5.6	3.2	2.5	0.7	0.0	0.4	0.0	0.0	0.0
Rickettsial disease	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	0.2	0.2	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rubella	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.7	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.8	0.0	0.0	0.0
Salmonellosis	Cases	3	2	4	9	7	3	0	0	0	12	0	3	1	2	1	3	1	5	0	4	1
	Rate	28.4	19.2	24.7	22.8	32.6	31.5	26.8	58.8	21.4	36.5	20.5	20.6	28.9	22.9	45.3	36.1	30.9	33.1	66.9	49.7	45.1
Shigellosis	Cases	0	0	2	1	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	1.9	4.8	4.8	5.5	1.7	2.0	2.9	2.2	0.0	0.7	0.0	0.0	2.1	2.8	2.5	5.2	3.1	1.4	3.6	1.6	2.7
Tuberculosis disease	Cases	1	4	6	5	1	0	2	0	0	0	0	1	0	3	0	0	0	3	2	0	0
	Rate	7.1	8.6	13.2	13.1	5.9	3.9	3.4	0.0	1.9	5.2	0.0	4.2	7.8	9.1	0.0	3.7	0.0	5.2	3.6	0.5	1.8
Typhoid fever	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	1.2	2.1	3.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0
VTEC/STEC infection	Cases	1	0	2	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0
	Rate	5.8	1.7	6.2	1.7	6.7	3.9	2.9	13.1	6.5	2.0	0.0	1.2	2.1	1.8	5.0	0.0	3.1	3.6	5.4	1.6	0.9
Yersiniosis	Cases	0	3	9	1	2	1	1	0	1	0	1	0	0	1	0	0	0	2	0	1	0
	Rate	9.0	8.5	15.3	5.5	7.0	7.9	8.3	4.4	18.6	11.1	1.6	1.2	20.4	20.0	5.0	5.2	34.0	15.1	21.7	3.2	5.4

<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 July 2009 expressed as cases per 100 000

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

‘b] Uglj`Y`dbYi a cVt`VVU`X]gYUgY`VYWUa`Y`U`bch]Z]UV`Y`X]gYUgY`cb`h`Y`%+h`C`Vt`c`VYf`&\$\$,

`H`YgY`h`hU`g`UbX`f`UH`g`UFY`XYfj]`YX`Zfca`h`Y`9d]Gi`fj`fYdcfhXUH`Ug`cddcgYX`h`h`Y`YUf`Y]ghUj`Uj]`UV`Y`XUH`i`gYX`]b`h`Y`a`Yb]b[`c`Vt`VVU`X]gYUgY`gYVU]cb`c`ZH`jg`fYdcfh

`Bcb]`gYUgcbU`]bZi`YbnU`f`WUdUV`Y`c`Zh`f`Ubga`]gg]cb`VYh`YYb`i`a`Ub`VY]b[`gk`VYWUa`Y`Ub`]bZYVU]ci`g`bch]Z]UV`Y`X]gYUgY`cb`&-`5df)``&\$-\$`-`"



Notifiable Disease Surveillance Data for the 12 months ending July-2009 by District Health Board

Disease	Cases for the 12 months ending July 2009 <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	7052	229	920	772	681	624	169	285	23	214	316	124	234	337	656	63	221	44	587	137	246	170
Cryptosporidiosis	925	31	52	45	35	117	21	28	6	28	38	14	36	19	95	19	28	17	142	54	43	57
Dengue fever	170	3	20	30	54	6	1	7	2	1	4	2	4	2	13	1	1	1	16	0	1	1
Gastroenteritis	685	4	112	108	63	28	7	12	2	1	5	18	107	42	77	1	3	5	76	9	4	1
Giardiasis	1682	50	167	244	198	147	66	54	11	40	74	13	16	44	171	13	49	16	177	17	60	55
Haemophilus influenzae type b	9	1	2	0	1	1	0	1	0	0	1	0	0	1	0	0	0	0	1	0	0	0
Hazardous substances injury	10	0	3	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Hepatitis A	62	3	5	10	6	1	1	3	0	2	4	9	9	3	3	0	0	0	3	0	0	0
Hepatitis B	51	0	7	14	5	0	0	4	0	2	0	0	2	0	3	2	2	2	7	0	0	1
Hepatitis C	37	1	1	4	4	1	3	1	0	6	0	0	2	0	2	1	0	0	10	0	1	0
Ischaemic heart disease	531	13	45	46	75	70	19	32	6	16	29	5	12	20	21	10	17	1	49	7	24	14
Lead absorption	414	3	59	127	59	30	6	9	5	5	4	10	17	11	11	3	4	0	27	1	15	8
Legionellosis	83	1	13	8	9	5	1	8	0	2	4	1	0	2	3	2	2	2	12	3	4	1
Leptospirosis	96	11	0	1	0	16	4	11	4	7	9	5	3	0	0	1	3	4	8	1	6	2
Listeriosis	28	1	5	5	6	1	0	1	1	0	0	1	1	0	1	0	0	0	2	0	3	0
Malaria	51	1	7	9	17	2	0	3	0	1	1	0	0	1	2	0	0	2	4	0	1	0
Measles	137	1	7	3	2	1	0	0	0	0	0	1	0	0	1	0	0	0	87	1	33	0
Non-infectious diseases	126	10	8	7	20	8	5	5	4	3	10	3	3	6	9	2	4	1	8	1	6	3
Mumps	54	4	4	4	3	8	1	4	0	0	3	1	0	4	3	1	1	0	10	2	1	0
Non-infectious diseases	3310	166	308	344	284	151	45	93	21	29	168	66	74	231	485	32	76	59	546	50	48	34
Paratyphoid fever	26	0	4	5	5	1	1	0	0	0	0	0	0	1	2	1	0	0	5	0	0	1
Pertussis	1020	14	59	40	48	137	24	45	6	18	24	6	24	44	83	7	99	25	245	26	16	30
Rheumatic fever	148	14	10	9	41	27	5	4	3	1	6	1	6	8	9	1	1	0	2	0	0	0
Rickettsial disease	8	0	1	1	0	5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Rubella	9	0	0	2	0	0	0	1	0	0	1	0	0	0	1	0	0	0	4	0	0	0
Salmonellosis	1243	44	100	108	108	116	32	55	27	23	56	13	34	41	65	18	49	10	164	37	93	50
Shigellosis	126	3	25	21	26	6	2	6	1	0	1	0	0	3	8	1	7	1	7	2	3	3
Tuberculosis disease	298	11	45	58	62	21	4	7	0	2	8	0	7	11	26	0	5	0	26	2	1	2
Typhoid fever	38	0	6	9	14	1	0	0	0	0	0	0	0	0	7	0	0	0	1	0	0	0
VTEC/STEC infection	141	9	9	27	8	24	4	6	6	7	3	0	2	3	5	2	0	1	18	3	3	1
Yersiniosis	448	14	44	67	26	25	8	17	2	20	17	1	2	29	57	2	7	11	75	12	6	6
Total	19018	642	2048	2130	1860	1583	429	702	130	428	786	294	595	863	1820	183	579	202	2319	365	620	440

<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

“b] Uglj Y`dbYi a cVtVWU`X]gYUgY`VYVWla Y`U`bch]Z]UV`Y`X]gYUgY`cb`h`Y`%+h`C`WtVYf`&\$\$,`h`Y`gY`hc`H]g`UbX`fUH`g`UFY`XYf]j`YX`Zfca`h`Y`9d]Gi`fj`fYdcfhXUH`Ug`cddcgYX`hc`h`Y`YUf`Y]ghUj`U]`UV`Y`XUH`i`gYX`]b`h`Y`a`Yb]b[`cVtVWU`X]gYUgY`gYVW]cb`cZ`h`jg`fYdcfh`Bcb!`gYUgcbU`]bZi`YbnU`fWdUV`Y`cZ`fU`bga`]gg]cb`VYhk`YYb`\\i`a`Ub`VY]b[`gE`VYVWla`Y`Ub`]bZYVW]ci`g`bch]Z]UV`Y`X]gYUgY`cb`&-`5df)``&\$\$-`”

National Notifiable Disease Surveillance Data July 2009

Disease	Current Year - 2009 <sup>1</sup>			Previous Year - 2008		
	July 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	July 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	416	3558	165.2	387	3199	188.2
Cryptosporidiosis	55	353	21.7	16	192	15.3
Dengue fever	6	121	4.0	14	64	1.9
Gastroenteritis	60	353	16.0	62	357	14.7
Giardiasis	118	1002	39.4	133	980	35.7
Haemophilus influenzae type b	1	7	0.2	0	7	0.2
Hazardous substances injury	0	3	0.2	0	1	0.1
Hepatitis A	5	27	1.5	21	54	1.7
<YdUh]hg`6	14	40	1.2	4	27	1.3
<YdUh]hg`7	8	28	0.9	4	14	0.6
⊕j Ugjj Y`dbYi a cWŁWWW`X]gYUgY	114	404	12.4	0	0	0.0
Lead absorption	36	247	9.7	22	150	4.4
Legionellosis	1	45	1.9	2	35	1.3
Leptospirosis	6	40	2.2	13	62	1.9
Listeriosis	3	15	0.7	3	14	0.6
Malaria	5	30	1.2	0	19	0.8
Measles	93	133	3.2	0	8	0.4
A Yb]b[ cWŁWWW`X]gYUgY	23	68	3.0	17	64	2.5
Mumps	8	35	1.3	7	57	2.3
Bcb`gYUgcbU`]bZi YbnU`5`fk`%B`%Ł`	2097	3310	77.5	0	0	0.0
Paratyphoid fever	2	15	0.6	0	14	0.6
Pertussis	110	764	23.9	24	161	6.7
Rheumatic fever	10	90	3.5	26	94	3.0
Rickettsial disease	0	2	0.2	3	4	0.1
Rubella	1	6	0.2	1	6	0.3
Salmonellosis	61	731	29.1	56	834	31.9
Shigellosis	6	80	3.0	7	67	2.5
Tuberculosis disease	28	177	7.0	27	176	6.9
Typhoid fever	1	29	0.9	6	20	0.7
VTEC/STEC infection	6	99	3.3	2	84	3.0
Yersiniosis	23	263	10.5	33	324	12.9

<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 July 2009) or the previous year (12 months up to and including July 2008), expressed as cases per 100 000

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

`C b`mUW`H`WUgYg`cZ`h`jg`X]gYUgY`UFY`W`ffYbhmbch]Z]UV`Y`  
`⊕j Ugjj Y`dbYi a cWŁWWW`X]gYUgY`VYWŁa`Y`U`bch]Z]UV`Y`X]gYUgY`cb`h`Y`%+`h`C`WŁ`VYf`&\$\$,`  
`h`Y`Yg`h`c`H`g`UbX`fUH`g`UFY`XYf]j`YX`Zfca`h`Y`9d]Gi`fj`fYdcfhXUHY`Ug`cddcgYX`h`c`h`Y`YUf`]YghUj`Uj`UV`Y`XUHY`i`gYX`]b`h`Y`  
a`Yb]b[ cWŁWWW`X]gYUgY`gYVW]cb`cZ`h`jg`fYdcfh`  
`C`h`Yf`bch]Z]UV`Y`]bZYVW]ci`g`X]gYUgY`fYdcfhYX`]b`đ`m`c`nXUhX`X]gYUgY`fWŁ`Z`Dc`]ca`mY`]hg`fWŁ`Z`HUYb]Ug]g`fWŁ`  
`Bcb!`gYUgcbU`]bZi`YbnU`fWŁdUV`Y`cZ`fUbg`a`]gg]cb`VYrk`YYb`\\i`a`Ub`VY]b[`gŁ`VYWŁa`Y`Ub`]bZYVW]ci`g`bch]Z]UV`Y`X]gYUgY`cb`  
&-`5dfj`&\$-\$`-`"