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## 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 7 October 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

- *Gastroenteritis*: 135 cases of gastroenteritis were notified in September 2009 compared to 45 notified cases in the same month of the previous year. The highest numbers of cases were reported from West Coast DHB (59) followed by Waitemata DHB (14). The highest number of cases was recorded by those in the over 70 years age group (44). Seven completed gastroenteritis outbreaks were reported involving 122 cases and 23 interim gastroenteritis outbreaks were reported involving 83 cases.
- *Leprosy*: One laboratory confirmed case of leprosy was notified in September 2009. The case was 15-19 year old who had been to Samoa during the disease incubation period.
- *Listeriosis*: Six listeriosis cases were notified during September 2009, one of which was later made not a case. Of the five of the remaining cases, all were laboratory confirmed and all were hospitalised. Four cases were perinatal listeriosis, all were from Waikato DHB. One infant died after being delivered at 20 weeks gestation, one infant was delivered at 37 weeks and survived, and one infant presented with bloody diarrhoea in their first week of life and survived. The remaining perinatal case was a mother who presented with symptoms at 33 weeks gestation. The infection did not result in either pre-term delivery or intrauterine death. The non-perinatal case occurred in a 20-29 year old from Waitemata DHB who had an underlying illness and was receiving immunosuppressive medication. No common source of infection has been found between the cases.
- *Measles*: 53 cases of measles (19 confirmed, 24 probable, and 10 under investigation) were notified in September 2009 compared to 75 notifications in the preceding month and zero notifications in the same month of the previous year (Figure 1). There were 14 laboratory confirmed cases. The highest number of cases was reported by Canterbury DHB (38 cases). Four cases were hospitalised. For more information on the measles situation in New Zealand, including the age, ethnicity, and vaccination status of cases, please refer to

- *Meningococcal disease*: Based on the earliest date available<sup>1</sup>, 13 cases (5 laboratory-confirmed) of meningococcal disease were notified during September 2009. In comparison, 26 cases were notified the previous month, August 2009, and 13 cases were notified during the same month last year, September 2008. For the 12 month period ending 30 September 2009, Tairāwhiti DHB recorded the highest incidence rate (10.9 per 100 000 population, 5 cases), followed by Wairarapa DHB (7.5 per 100 000, 3 cases) and Hawke's Bay DHB (7.2 per 100 000, 11 cases). The highest age-specific incidence rate was in infants aged less than one year (42.1 per 100 000 population, 27 cases), followed by those in the 1–4 years age group (14.8 per 100 000, 35 cases) and those in the 15–19 years age group (7.1 per 100 000, 23 cases).
- *Mumps*: 10 cases of mumps (6 probable, and 4 under investigation) were notified in September 2009 compared to five notified cases in the same month of the previous year. The cases were reported from Wairarapa (3), Capital and Coast (2), Auckland (1), Taranaki (1), Whanganui (1), Canterbury (1) and West Coast (1) DHBs. The highest number of cases was recorded by those in the 5–9 years and 30–39 years age groups (3 cases each). Of the 6 probable cases, one had received one dose of vaccine (as appropriate for their age), one had received two doses of vaccine, one was reported as being vaccinated but no dose information was available, one was reported to be unvaccinated, and the immunisation status of the two remaining cases is unknown.
- *Non-seasonal influenza*: In New Zealand, non seasonal influenza became notifiable on 29 April 2009. Twenty-two cases of non seasonal influenza A (H1N1) were notified in September 2009 (20 confirmed and 2 under investigation) compared with 299 cases in the preceding month. There were 10 hospitalised cases. The highest number of cases was reported by Waitemata DHB (6 cases), followed by Bay of Plenty DHB (4 cases). 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*: 129 cases of pertussis were notified in September 2009, compared to 111 notifications in the preceding month and 41 notifications in same month of the previous year (Figure 2). There were 45 (34.9%) laboratory-confirmed cases. The highest numbers of cases were reported by Canterbury DHB (36 cases), followed by Waikato (27 cases) and Waitemata (20 cases) DHBs. For the 12 month period ending 30 September 2009, the highest incidence rates were reported from West Coast (86.5 per 100 000 population, 28 cases) and Nelson Marlborough (70.7 per 100 000, 96 cases) DHBs compared to a national rate of 27.7 per 100 000 population. The current 12-month rate by age group was highest amongst infants aged less than one year (156.1 per 100 000 population, 100 cases), followed by children in the 1–4 years age group (50.0 per 100 000, 118 cases).
- *Yersiniosis*: 39 yersiniosis cases were notified in September 2009 compared to 27 notifications in the preceding month and 33 cases in the same month of the previous year. Four cases were hospitalised. Canterbury DHB had the highest numbers of cases (8 cases) followed by Auckland (6) and Waitemata (5) DHBs. The highest number of cases was in the 40–49 years age group (8 cases) followed by the 50–59 years age group (6).

<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:* 23 outbreak reports were entered into EpiSurv and completed during September 2009 (Table 1).

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

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Manawatu	1	2
<i>Cryptosporidium</i>	Auckland	3	7
Gastroenteritis	Auckland, Waikato, Tauranga, Taranaki, Wellington, Canterbury, Southland	7	132
<i>Giardia</i>	Auckland	1	2
<i>Neisseria meningitidis</i>	Wellington	1	2
Norovirus	Auckland, Wellington, Canterbury, West Coast	9	194
<i>Yersinia</i>	West Coast	1	2
<b>Total</b>		23	338

*Interim outbreak reports:* 34 interim outbreaks have been reported in September 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 September 2009

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
Gastroenteritis	Auckland, Waikato, Hawke's Bay, Taranaki, Manawatu, Wellington, Nelson Marlborough, West Coast, Otago, Southland,	23	164
<i>Giardia</i>	Auckland	1	2
Norovirus	Auckland, Eastern Bay of Plenty, Tauranga, Gisborne, Southland	9	68
Rotavirus	Auckland	1	18
<b>Total</b>		34	252

## 3. Deaths from notifiable diseases

Four deaths were reported for the month of September 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 September 2009

Disease	District Health Board	Age group
Invasive pneumococcal disease	Auckland	50 to 59
Invasive pneumococcal disease	Counties Manukau	70+
Non seasonal influenza A (H1N1)	Waitemata	60 to 69
Non seasonal influenza A (H1N1)	Tairāwhiti	30 to 39

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

Figure 1: Measles notifications by month by year, January 2004 – September 2009

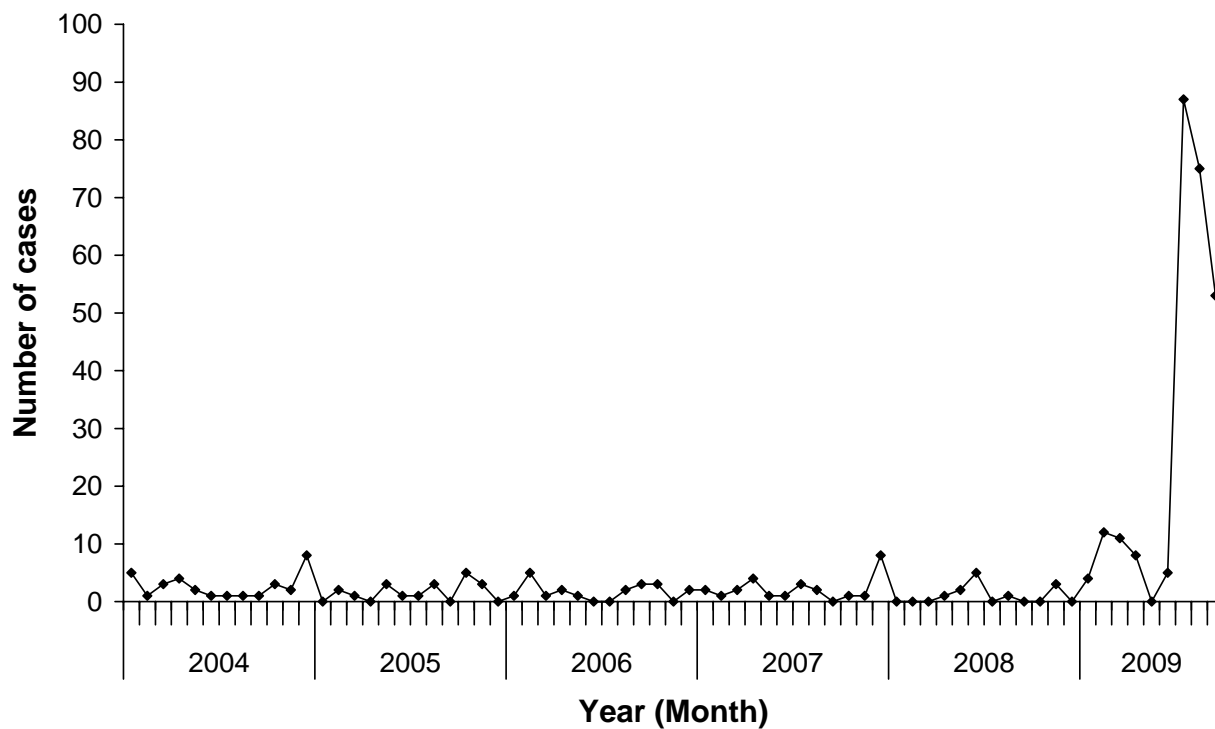
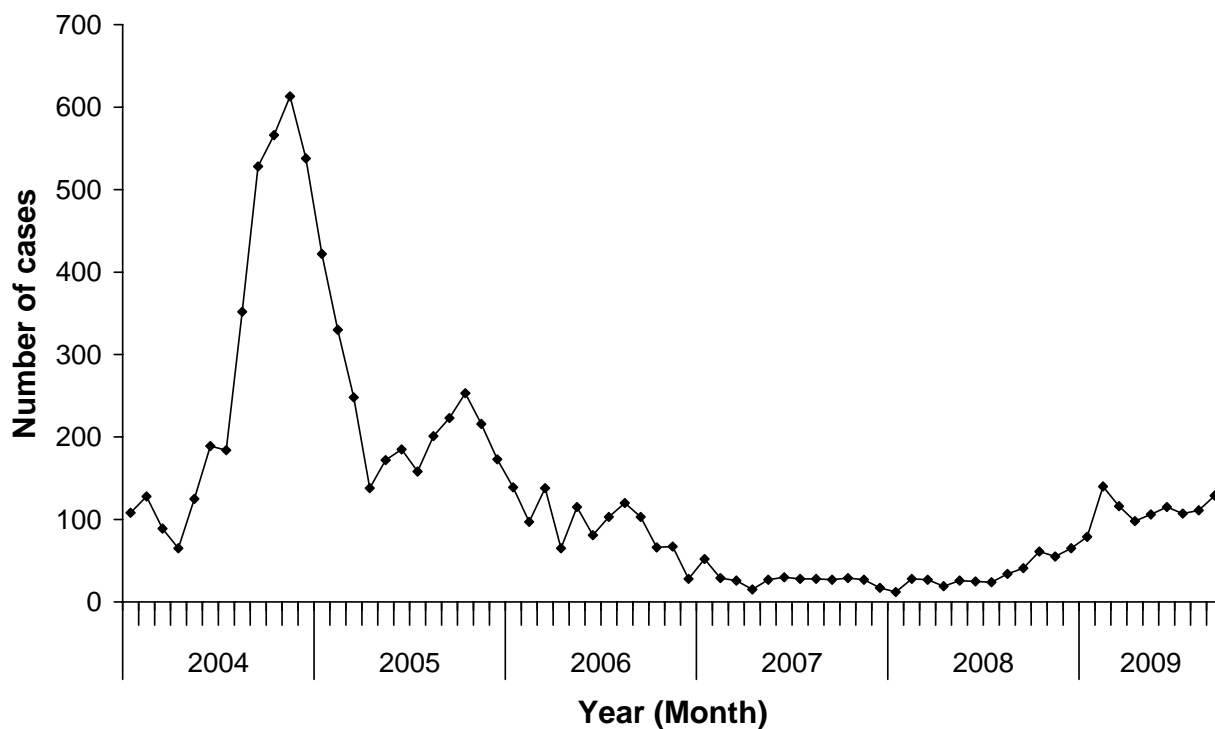


Figure 2: Pertussis notifications by month by year, January 2004 – September 2009



## 5. Data Tables

### National Notifiable Disease Surveillance Data September 2009

Disease	Current Year - 2009 <sup>1</sup>			Previous Year - 2008		
	September 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	September 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	571	4687	164.8	577	4345	173.4
Cryptosporidiosis	131	532	19.8	207	450	16.9
Dengue fever	4	129	3.8	8	80	2.2
Gastroenteritis	135	543	18.6	45	436	14.4
Giardiasis	135	1264	38.7	150	1272	37.2
Haemophilus influenzae type b	0	7	0.2	0	7	0.2
Hazardous substances injury	1	3	0.2	3	3	0.1
Hepatitis A	2	34	1.2	7	71	1.9
Hepatitis B <sup>4</sup>	7	52	1.4	3	32	1.2
Hepatitis C <sup>4</sup>	3	34	0.9	2	17	0.5
Invasive pneumococcal disease <sup>5</sup>	83	547	15.8	0	0	0.0
Lead absorption	30	297	9.1	26	226	6.0
Legionellosis	9	59	2.1	5	43	1.5
Leptospirosis	6	52	2.0	15	83	2.3
Listeriosis	6	24	0.7	2	21	0.7
Malaria	4	40	1.2	5	28	0.9
Measles	53	255	6.0	0	9	0.4
Meningococcal disease <sup>6</sup>	16	108	3.2	13	93	2.8
Mumps	10	53	1.5	5	67	2.1
Non seasonal influenza A (H1N1) <sup>7</sup>	22	3636	85.2	0	0	0.0
Paratyphoid fever	1	20	0.6	2	21	0.7
Pertussis	129	1001	27.7	41	236	7.2
Rheumatic fever	11	120	3.4	19	126	3.2
Rickettsial disease	2	6	0.1	3	10	0.2
Rubella	0	7	0.2	0	7	0.3
Salmonellosis	72	884	28.6	94	1009	31.8
Shigellosis	7	98	2.8	15	90	2.6
Tuberculosis disease	29	245	7.4	28	224	6.9
Typhoid fever	1	31	0.8	1	24	0.7
VTEC/STEC infection	16	119	3.3	10	103	3.0
Yersiniosis	39	329	10.2	33	404	12.6

<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 2009) or the previous year (12 months up to and including September 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>7</sup> Non-seasonal influenza (capable of transmission between human beings) became an infectious notifiable disease on 29 April 2009.

Other notifiable infectious disease reported in September: Leprosy (1) , Lyme Disease (1)

Notifiable Disease Surveillance Data by District Health Board September 2009

		Cases <sup>1</sup> and current rate <sup>2</sup> for September 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	19	58	51	43	57	24	33	4	24	28	10	25	28	69	6	15	5	38	7	19	8
	Rate	145.4	179.0	181.5	139.6	176.9	183.3	135.8	54.5	208.0	204.1	211.6	132.3	243.8	246.8	140.9	145.2	132.8	110.3	215.2	129.2	146.2
Cryptosporidiosis	Cases	8	6	3	14	39	0	2	0	5	4	3	7	1	10	1	0	4	10	6	5	3
	Rate	18.7	11.1	10.0	9.9	30.6	16.7	12.7	13.1	16.7	22.2	19.0	21.9	14.1	38.7	27.7	16.9	49.4	21.6	66.9	20.3	43.3
Dengue fever	Cases	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.9	3.8	7.3	9.9	2.0	2.0	2.4	4.4	0.9	2.6	3.2	2.4	1.4	4.6	2.5	0.7	3.1	2.6	0.0	0.5	0.9
Gastroenteritis	Cases	0	14	9	2	2	0	0	0	0	5	0	11	10	13	0	7	59	1	1	1	0
	Rate	1.9	22.7	26.0	14.2	9.3	7.9	3.4	4.4	0.0	7.2	26.8	69.8	36.6	31.6	5.0	7.4	188.4	13.5	18.1	3.2	0.9
Giardiasis	Cases	10	18	21	8	13	5	1	0	1	3	5	3	5	14	0	4	0	16	1	6	1
	Rate	36.2	31.5	47.0	40.3	42.1	62.1	29.7	26.1	39.0	51.5	30.0	10.9	28.9	63.6	30.2	36.8	43.2	34.7	27.1	31.0	43.3
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	0.6	0.4	0.0	0.2	0.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Hazardous substances injury	Cases	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis A	Cases	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
	Rate	1.9	0.8	1.8	1.3	0.6	1.0	1.5	0.0	1.9	2.0	7.9	1.8	2.1	1.4	0.0	0.0	0.0	1.0	0.0	0.0	0.0
Hepatitis B	Cases	1	0	0	1	0	1	0	0	0	1	1	0	0	1	0	0	0	1	0	0	0
	Rate	1.9	1.2	2.5	1.5	0.0	1.0	1.9	0.0	1.9	0.7	1.6	1.2	0.0	1.4	5.0	2.2	6.2	1.4	0.0	0.5	0.9
Hepatitis C	Cases	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0.6	0.2	0.9	0.8	0.0	3.0	1.0	0.0	6.5	0.0	0.0	1.2	0.0	0.7	5.0	0.0	0.0	2.2	0.0	0.5	0.0
HbSgYUgY dbYi a cVtVWU' X]gYUgY	Cases	3	5	7	8	6	6	7	1	5	1	2	3	6	5	1	5	0	5	0	5	2
	Rate	12.9	11.7	13.2	19.6	23.0	27.6	19.0	19.6	22.3	20.9	12.6	10.3	19.7	9.8	27.7	16.9	0.0	11.9	12.7	16.0	15.3
Lead absorption	Cases	2	4	2	3	2	0	1	1	1	0	0	1	3	4	0	1	0	4	0	0	1
	Rate	3.2	8.3	24.2	12.5	8.1	4.9	4.4	10.9	5.6	2.0	14.2	9.1	10.6	4.9	7.5	3.7	0.0	6.0	1.8	9.1	8.1
Legionellosis	Cases	1	2	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0	1	0
	Rate	1.9	2.7	2.1	1.9	1.1	1.0	4.4	0.0	1.9	2.6	0.0	0.6	1.4	1.1	5.0	1.5	6.2	2.8	5.4	2.1	0.9
Leptospirosis	Cases	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0
	Rate	5.2	0.0	0.2	0.0	4.8	3.0	3.9	2.2	6.5	5.9	6.3	3.0	0.0	0.4	2.5	1.5	9.3	1.6	1.8	2.7	2.7
Listeriosis	Cases	0	1	0	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	0.6	0.8	1.1	0.8	1.1	0.0	0.5	2.2	0.9	0.0	1.6	1.2	0.7	0.4	0.0	0.0	0.0	0.4	0.0	1.1	0.0
Malaria	Cases	0	1	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	0.6	1.5	1.6	4.4	0.8	0.0	0.5	0.0	0.0	0.7	0.0	0.0	0.7	1.1	0.0	0.7	6.2	0.6	0.0	0.0	0.0
Measles	Cases	2	2	0	3	0	0	1	0	0	0	0	0	0	3	3	0	1	38	0	0	0
	Rate	1.9	3.3	1.6	1.3	0.3	0.0	1.0	0.0	0.0	0.0	1.6	0.0	0.7	1.4	7.5	0.7	3.1	34.7	1.8	18.7	2.7
A Yb]b[ cVtVWU' X]gYUgY	Cases	0	0	0	2	2	0	2	0	0	1	0	4	1	0	0	0	1	1	0	2	0
	Rate	5.2	1.2	2.3	4.0	2.2	4.9	3.4	10.9	1.9	7.2	3.2	4.2	4.9	3.5	7.5	1.5	3.1	2.6	1.8	3.7	2.7
Mumps	Cases	0	0	1	0	0	0	0	0	1	0	1	0	0	2	3	0	1	1	0	0	0
	Rate	2.6	0.8	0.9	0.6	1.7	1.0	2.4	0.0	0.9	0.7	3.2	0.0	2.8	2.1	10.1	0.7	3.1	2.4	3.6	0.5	0.0
Bcb'gYUgcbU' ]bZi YbnU'5'fk%B%t	Cases	0	6	2	2	1	0	4	2	1	0	0	0	0	0	1	0	0	0	2	1	0
	Rate	115.1	63.8	84.2	64.0	49.4	49.3	53.6	108.9	30.6	113.5	112.1	48.0	150.8	178.3	133.3	58.2	197.7	119.4	137.4	42.7	41.5
Paratyphoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	0.0	1.2	0.7	0.8	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.1	2.5	0.0	0.0	0.6	0.0	0.0	0.0
Pertussis	Cases	2	20	6	5	27	5	3	0	2	1	1	0	3	8	0	3	1	36	3	2	1
	Rate	9.7	17.5	10.7	13.1	49.4	29.6	25.3	15.3	18.6	17.0	12.6	14.6	33.8	28.1	12.6	70.7	86.5	58.7	50.6	11.7	23.5
Rheumatic fever	Cases	0	1	1	2	3	0	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	8.4	1.3	2.7	8.7	7.9	3.0	2.4	21.8	0.9	2.6	0.0	2.4	5.6	3.2	0.0	0.7	0.0	0.2	0.0	0.0	0.0
Rickettsial disease	Cases	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.4	0.0	0.2	0.3	0.0	0.0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.8	0.0	0.0	0.0
Salmonellosis	Cases	2	9	5	3	5	1	1	3	1	3	0	2	2	3	4	3	1	6	2	9	7
	Rate	26.5	19.2	24.7	21.8	29.8	27.6	23.4	67.5	22.3	38.5	22.1	20.0	28.2	23.2	52.8	33.2	30.9	32.9	59.7	51.8	46.0
Shigellosis	Cases	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0
	Rate	1.9	4.6	4.3	4.6	2.2	2.0	1.9	2.2	0.0	0.7	0.0	0.6	2.1	2.8	2.5	2.9	3.1	2.2	3.6	1.6	2.7
Tuberculosis disease	Cases	0	6	8	6	1	0	2	0	0	1	0	1	1	0	0	1	0	1	0	1	0
	Rate	5.2	8.6	14.8	13.3	5.3	5.9	4.9	0.0	1.9	5.9	0.0	4.9	9.9	9.5	0.0	5.2	0.0	6.0	3.6	1.1	0.9
Typhoid fever	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	1.0	2.1	2.7	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	1	3	1	0	0	0	4	1	0	0	0	0	0	1	0	3	0	1	0
	Rate	5.2	1.7	4.6	2.3	7.3	3.0	2.9	15.3	9.3	2.6	0.0	1.2	2.1	1.4	5.0	0.7	3.1	3.4	1.8	2.1	0.9
Yersiniosis	Cases	1	5	6	2	4	1	0	0	0	0	1	1	2	3	0	0	3	8	0	2	0
	Rate	7.8	7.7	15.5	4.9	7.3	10.8	5.4	4.4	17.6	10.4	4.7	1.8	18.3	20.7	5.0	2.9	40.1	14.7	12.7	5.9	4.5

<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 2009 expressed as cases per 100 000

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

‘b] Ugj] Y`dbYi a cVtVWU' X]gYUgY`VYWUa Y`U`bch]ZUV`Y`X]gYUgY`cb`h`Y`%+h`cVtVcVYf`&\$\$,  
`H`YgY`hcH`U`g`UbX`fUH`g`UFY`XYfj] YX`Zfca`h`Y`9d]Gi`fj`fYdcfhXUH`Y`Ug`cddcgYX`hc`h`Y`YUf`Y]gh`Uj`Uj]UV`Y`XUH`i`gYX`]b`h`Y`a`Yb]b[ cVtVWU' X]gYUgY`gYVW]cb`cZH`jg`fYdcfh  
`Bcb] gYUgcbU` ]bZi YbnU`fWUdUV`Y`cZH`fUbga` ]gg]cb`VYhk`YYb`i`i`a`Ub`VY]b[ gk`VYWUa`Y`Ub`]bZYVW]ci`g`bch]ZUV`Y`X]gYUgY`cb`&-`5dfj`'&\$-\$`-`"

Notifiable Disease Surveillance Data by District Health Board September 2009

		Cases <sup>1</sup> and current rate <sup>2</sup> for September 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	19	58	51	43	57	24	33	4	24	28	10	25	28	69	6	15	5	38	7	19	8
	Rate	145.4	179.0	181.5	139.6	176.9	183.3	135.8	54.5	208.0	204.1	211.6	132.3	243.8	246.8	140.9	145.2	132.8	110.3	215.2	129.2	146.2
Cryptosporidiosis	Cases	8	6	3	14	39	0	2	0	5	4	3	7	1	10	1	0	4	10	6	5	3
	Rate	18.7	11.1	10.0	9.9	30.6	16.7	12.7	13.1	16.7	22.2	19.0	21.9	14.1	38.7	27.7	16.9	49.4	21.6	66.9	20.3	43.3
Dengue fever	Cases	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.9	3.8	7.3	9.9	2.0	2.0	2.4	4.4	0.9	2.6	3.2	2.4	1.4	4.6	2.5	0.7	3.1	2.6	0.0	0.5	0.9
Gastroenteritis	Cases	0	14	9	2	2	0	0	0	0	5	0	11	10	13	0	7	59	1	1	1	0
	Rate	1.9	22.7	26.0	14.2	9.3	7.9	3.4	4.4	0.0	7.2	26.8	69.8	36.6	31.6	5.0	7.4	188.4	13.5	18.1	3.2	0.9
Giardiasis	Cases	10	18	21	8	13	5	1	0	1	3	5	3	5	14	0	4	0	16	1	6	1
	Rate	36.2	31.5	47.0	40.3	42.1	62.1	29.7	26.1	39.0	51.5	30.0	10.9	28.9	63.6	30.2	36.8	43.2	34.7	27.1	31.0	43.3
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	0.6	0.4	0.0	0.2	0.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Hazardous substances injury	Cases	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis A	Cases	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
	Rate	1.9	0.8	1.8	1.3	0.6	1.0	1.5	0.0	1.9	2.0	7.9	1.8	2.1	1.4	0.0	0.0	0.0	1.0	0.0	0.0	0.0
Hepatitis B	Cases	1	0	0	1	0	1	0	0	0	1	1	0	0	1	0	0	0	1	0	0	0
	Rate	1.9	1.2	2.5	1.5	0.0	1.0	1.9	0.0	1.9	0.7	1.6	1.2	0.0	1.4	5.0	2.2	6.2	1.4	0.0	0.5	0.9
Hepatitis C	Cases	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0.6	0.2	0.9	0.8	0.0	3.0	1.0	0.0	6.5	0.0	0.0	1.2	0.0	0.7	5.0	0.0	0.0	2.2	0.0	0.5	0.0
ꞡb] Uglj Y dbYi a cV&VWU' X]gYUgY	Cases	3	5	7	8	6	6	7	1	5	1	2	3	6	5	1	5	0	5	0	5	2
	Rate	12.9	11.7	13.2	19.6	23.0	27.6	19.0	19.6	22.3	20.9	12.6	10.3	19.7	9.8	27.7	16.9	0.0	11.9	12.7	16.0	15.3
Lead absorption	Cases	2	4	2	3	2	0	1	1	1	0	0	1	3	4	0	1	0	4	0	0	1
	Rate	3.2	8.3	24.2	12.5	8.1	4.9	4.4	10.9	5.6	2.0	14.2	9.1	10.6	4.9	7.5	3.7	0.0	6.0	1.8	9.1	8.1
Legionellosis	Cases	1	2	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0	1	0
	Rate	1.9	2.7	2.1	1.9	1.1	1.0	4.4	0.0	1.9	2.6	0.0	0.6	1.4	1.1	5.0	1.5	6.2	2.8	5.4	2.1	0.9
Leptospirosis	Cases	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0
	Rate	5.2	0.0	0.2	0.0	4.8	3.0	3.9	2.2	6.5	5.9	6.3	3.0	0.0	0.4	2.5	1.5	9.3	1.6	1.8	2.7	2.7
Listeriosis	Cases	0	1	0	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	0.6	0.8	1.1	0.8	1.1	0.0	0.5	2.2	0.9	0.0	1.6	1.2	0.7	0.4	0.0	0.0	0.0	0.4	0.0	1.1	0.0
Malaria	Cases	0	1	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	0.6	1.5	1.6	4.4	0.8	0.0	0.5	0.0	0.0	0.7	0.0	0.0	0.7	1.1	0.0	0.7	6.2	0.6	0.0	0.0	0.0
Measles	Cases	2	2	0	3	0	0	1	0	0	0	0	0	0	3	3	0	1	38	0	0	0
	Rate	1.9	3.3	1.6	1.3	0.3	0.0	1.0	0.0	0.0	0.0	1.6	0.0	0.7	1.4	7.5	0.7	3.1	34.7	1.8	18.7	2.7
A Yb]b[ cV&VWU' X]gYUgY	Cases	0	0	0	2	2	0	2	0	0	1	0	4	1	0	0	0	1	1	0	2	0
	Rate	5.2	1.2	2.3	4.0	2.2	4.9	3.4	10.9	1.9	7.2	3.2	4.2	4.9	3.5	7.5	1.5	3.1	2.6	1.8	3.7	2.7
Mumps	Cases	0	0	1	0	0	0	0	0	1	0	1	0	0	2	3	0	1	1	0	0	0
	Rate	2.6	0.8	0.9	0.6	1.7	1.0	2.4	0.0	0.9	0.7	3.2	0.0	2.8	2.1	10.1	0.7	3.1	2.4	3.6	0.5	0.0
Bcb'gYUgcbU' ]bZi YbnU'5'fk%B%&	Cases	0	6	2	2	1	0	4	2	1	0	0	0	0	0	1	0	0	0	2	1	0
	Rate	115.1	63.8	84.2	64.0	49.4	49.3	53.6	108.9	30.6	113.5	112.1	48.0	150.8	178.3	133.3	58.2	197.7	119.4	137.4	42.7	41.5
Paratyphoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	0.0	1.2	0.7	0.8	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.1	2.5	0.0	0.0	0.6	0.0	0.0	0.0
Pertussis	Cases	2	20	6	5	27	5	3	0	2	1	1	0	3	8	0	3	1	36	3	2	1
	Rate	9.7	17.5	10.7	13.1	49.4	29.6	25.3	15.3	18.6	17.0	12.6	14.6	33.8	28.1	12.6	70.7	86.5	58.7	50.6	11.7	23.5
Rheumatic fever	Cases	0	1	1	2	3	0	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	8.4	1.3	2.7	8.7	7.9	3.0	2.4	21.8	0.9	2.6	0.0	2.4	5.6	3.2	0.0	0.7	0.0	0.2	0.0	0.0	0.0
Rickettsial disease	Cases	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.4	0.0	0.2	0.3	0.0	0.0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.8	0.0	0.0	0.0
Salmonellosis	Cases	2	9	5	3	5	1	1	3	1	3	0	2	2	3	4	3	1	6	2	9	7
	Rate	26.5	19.2	24.7	21.8	29.8	27.6	23.4	67.5	22.3	38.5	22.1	20.0	28.2	23.2	52.8	33.2	30.9	32.9	59.7	51.8	46.0
Shigellosis	Cases	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0
	Rate	1.9	4.6	4.3	4.6	2.2	2.0	1.9	2.2	0.0	0.7	0.0	0.6	2.1	2.8	2.5	2.9	3.1	2.2	3.6	1.6	2.7
Tuberculosis disease	Cases	0	6	8	6	1	0	2	0	0	1	0	1	1	0	0	1	0	1	0	1	0
	Rate	5.2	8.6	14.8	13.3	5.3	5.9	4.9	0.0	1.9	5.9	0.0	4.9	9.9	9.5	0.0	5.2	0.0	6.0	3.6	1.1	0.9
Typhoid fever	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	1.0	2.1	2.7	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	1	3	1	0	0	0	4	1	0	0	0	0	0	1	0	3	0	1	0
	Rate	5.2	1.7	4.6	2.3	7.3	3.0	2.9	15.3	9.3	2.6	0.0	1.2	2.1	1.4	5.0	0.7	3.1	3.4	1.8	2.1	0.9
Yersiniosis	Cases	1	5	6	2	4	1	0	0	0	0	1	1	2	3	0	0	3	8	0	2	0
	Rate	7.8	7.7	15.5	4.9	7.3	10.8	5.4	4.4	17.6	10.4	4.7	1.8	18.3	20.7	5.0	2.9	40.1	14.7	12.7	5.9	4.5

<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 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 cV&VYf' &\$ \$,

h Y YgY h cH U' g UbX' fUHYg UfY XYf]j YX Zfca h Y Y' 9d]Gi fj fYdcfhXUH Y Ug' cddcgYX h c h Y YUf Y]gh Uj U] UV Y XUH i gYX ]b h Y a Yb]b[ cV&VWU' X]gYUgY gYVW]cb c Z h ]g fYdcfh Bcb] gYUgcbU' ]bZi YbnU' fWUdUV Y c Z h fUbga ]gg]cb VYh Y Yb \i a Ub VY]b[ gk VYWUa Y Ub ]bZYVW]ci g bch]ZUV Y X]gYUgY cb &- '5df]' &\$ \$- "

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

Disease	Cases for the 12 months ending September 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	7036	225	932	795	661	630	186	279	25	224	313	134	218	346	702	56	197	43	547	119	242	162
Cryptosporidiosis	846	29	58	44	47	109	17	26	6	18	34	12	36	20	110	11	23	16	107	37	38	48
Dengue fever	162	3	20	32	47	7	2	5	2	1	4	2	4	2	13	1	1	1	13	0	1	1
Gastroenteritis	794	3	118	114	67	33	8	7	2	0	11	17	115	52	90	2	10	61	67	10	6	1
Giardiasis	1652	56	164	206	191	150	63	61	12	42	79	19	18	41	181	12	50	14	172	15	58	48
Haemophilus influenzae type b	9	1	2	0	1	1	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0
Hazardous substances injury	7	1	3	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Hepatitis A	52	3	4	8	6	2	1	3	0	2	3	5	3	3	4	0	0	0	5	0	0	0
Hepatitis B	58	3	6	11	7	0	1	4	0	2	1	1	2	0	4	2	3	2	7	0	1	1
Hepatitis C	40	1	1	4	4	0	3	2	0	7	0	0	2	0	2	2	0	0	11	0	1	0
Ischaemic heart disease	674	20	61	58	93	82	28	39	9	24	32	8	17	28	28	11	23	0	59	7	30	17
Lead absorption	388	5	43	106	59	29	5	9	5	6	3	9	15	15	14	3	5	0	30	1	17	9
Legionellosis	89	3	14	9	9	4	1	9	0	2	4	0	1	2	3	2	2	2	14	3	4	1
Leptospirosis	87	8	0	1	0	17	3	8	1	7	9	4	5	0	1	1	2	3	8	1	5	3
Listeriosis	30	1	4	5	4	4	0	1	1	1	0	1	2	1	1	0	0	0	2	0	2	0
Malaria	52	1	8	7	21	3	0	1	0	0	1	0	0	1	3	0	1	2	3	0	0	0
Measles	258	3	17	7	6	1	0	2	0	0	0	1	0	1	4	3	1	1	172	1	35	3
Non-infectious diseases	137	8	6	10	19	8	5	7	5	2	11	2	7	7	10	3	2	1	13	1	7	3
Mumps	62	4	4	4	3	6	1	5	0	1	1	2	0	4	6	4	1	1	12	2	1	0
Non-infectious diseases	3636	178	332	369	303	176	50	110	50	33	174	71	79	214	507	53	79	64	592	76	80	46
Paratyphoid fever	24	0	6	3	4	2	1	0	0	0	0	0	0	1	3	1	0	0	3	0	0	0
Pertussis	1182	15	91	47	62	176	30	52	7	20	26	8	24	48	80	5	96	28	291	28	22	26
Rheumatic fever	147	13	7	12	41	28	3	5	10	1	4	0	4	8	9	0	1	0	1	0	0	0
Rickettsial disease	6	1	2	0	1	1	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	0	0	0	0	2	0	0	0	4	0	0	0
Salmonellosis	1221	41	100	108	103	106	28	48	31	24	59	14	33	40	66	21	45	10	163	33	97	51
Shigellosis	121	3	24	19	22	8	2	4	1	0	1	0	1	3	8	1	4	1	11	2	3	3
Tuberculosis disease	318	8	45	65	63	19	6	10	0	2	9	0	8	14	27	0	7	0	30	2	2	1
Typhoid fever	36	0	5	9	13	1	0	0	0	0	0	0	0	0	7	0	0	0	1	0	0	0
VTEC/STEC infection	140	8	9	20	11	26	3	6	7	10	4	0	2	3	4	2	1	1	17	1	4	1
Yersiniosis	434	12	40	68	23	26	11	11	2	19	16	3	3	26	59	2	4	13	73	7	11	5
Total	19707	657	2126	2145	1891	1655	458	716	176	448	799	313	600	881	1949	198	558	264	2430	346	667	430

<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`HJ`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`fUbg`a`Jgg]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 September 2009

Disease	Current Year - 2009 <sup>1</sup>			Previous Year - 2008		
	September 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	September 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	571	4687	164.8	577	4345	173.4
Cryptosporidiosis	131	532	19.8	207	450	16.9
Dengue fever	4	129	3.8	8	80	2.2
Gastroenteritis	135	543	18.6	45	436	14.4
Giardiasis	135	1264	38.7	150	1272	37.2
Haemophilus influenzae type b	0	7	0.2	0	7	0.2
Hazardous substances injury	1	3	0.2	3	3	0.1
Hepatitis A	2	34	1.2	7	71	1.9
<YdUh]hg`6	7	52	1.4	3	32	1.2
<YdUh]hg`7	3	34	0.9	2	17	0.5
⊕j Ug]j Y`dbYi a cVŁVWU`X]gYUgY	83	547	15.8	0	0	0.0
Lead absorption	30	297	9.1	26	226	6.0
Legionellosis	9	59	2.1	5	43	1.5
Leptospirosis	6	52	2.0	15	83	2.3
Listeriosis	6	24	0.7	2	21	0.7
Malaria	4	40	1.2	5	28	0.9
Measles	53	255	6.0	0	9	0.4
A Yb]b[ cVŁVWU`X]gYUgY	16	108	3.2	13	93	2.8
Mumps	10	53	1.5	5	67	2.1
Bcb`gYUgcbU`]bZi YbnU`5`fk`%B`%Ł`	22	3636	85.2	0	0	0.0
Paratyphoid fever	1	20	0.6	2	21	0.7
Pertussis	129	1001	27.7	41	236	7.2
Rheumatic fever	11	120	3.4	19	126	3.2
Rickettsial disease	2	6	0.1	3	10	0.2
Rubella	0	7	0.2	0	7	0.3
Salmonellosis	72	884	28.6	94	1009	31.8
Shigellosis	7	98	2.8	15	90	2.6
Tuberculosis disease	29	245	7.4	28	224	6.9
Typhoid fever	1	31	0.8	1	24	0.7
VTEC/STEC infection	16	119	3.3	10	103	3.0
Yersiniosis	39	329	10.2	33	404	12.6

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

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

Cb`mUW`hY`WUgYg`cZ`h\]g`X]gYUgY`UfY`W`ffYbhmbch]Z]UV`Y`  
⊕j Ug]j Y`dbYi a cVŁVWU`X]gYUgY`VYVWla Y`U`bch]Z]UV`Y`X]gYUgY`cb`h`Y`%+`h`C`VŁVYf`&\$\$,  
`h`Y`gY`hc`HJ`g`UbX`fUH`g`UfY`XYf]j`YX`Zfca`h`Y`9d]Gi`fj`fYdcfhXUHY`Ug`cddcgYX`hc`h`Y`YUf`]YghUj`Uj`UV`Y`XUHY`i`gYX`]b`h`Y`  
a`Yb]b[`cVŁVWU`X]gYUgY`gYVW]cb`cZ`h\]g`fYdcfh  
`Bcb!`gYUgcbU`]bZi`YbnU`fVWdUV`Y`cZ`fUbg` ]gg]cb`VYhk`YYb`\\i`a`Ub`VY]b[`gŁ`VYVWla`Y`Ub`]bZYVW]ci`g`bch]Z]UV`Y`X]gYUgY`cb`  
&-`5df]`&\$\$\_`-

Other notifiable infectious disease reported in September: Leprosy (1) , Lyme Disease (1)