

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 3 June 2010. 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

- *Campylobacteriosis*: 449 cases of campylobacteriosis were notified in May 2010 compared to 425 cases notified in the same month of the previous year. Three hundred and sixty-eight cases were laboratory-confirmed. For the 12-month period ending 31 May 2010, the highest incidence rates were reported in Hutt Valley (278.9 per 100 000 population, 398 cases), Taranaki (253.1 per 100 000, 274 cases), and Capital and Coast (247.5 per 100 000, 713 cases) DHBs compared to a national rate of 174.1 per 100 000.
- *Cryptosporidiosis*: 56 cases of cryptosporidiosis were notified in May 2010 compared to 45 cases notified during the same month of the previous year. The highest number of cases was reported in the 1-4 years age group (19 cases). One case was hospitalised. The highest number of cases was reported in Canterbury DHB (18 cases), followed by Auckland (8 cases) and Waikato (8 cases) DHBs. *Cryptosporidium parvum* oocysts were detected in faecal specimens for 96.4% (54/56) of the cases. Two *Cryptosporidium* outbreaks (one completed and one interim) involving seven cases were reported in May.
- *Giardiasis*: 186 cases of giardiasis were notified in May 2010 compared to 148 cases notified in the same month the previous year. The highest number of cases was reported in Auckland DHB (31 cases), followed by Hawke's Bay (23 cases), Waikato (21 cases) and Canterbury (20 cases) DHBs. Among the cases where risk information was recorded, 58.5% (31/53) had faecal contact, 48.1% (26/54) had contact with other symptomatic people, 36.7% (18/31) had consumed food from a food premise, 30.8% (16/52) had recreational contact with water, 28.6% (12/42) had consumed untreated water and 25.0% (13/52) had contact with farm animals,. Ten *Giardia* outbreaks (eight final and two interim) involving 40 cases were reported in May.
- *Hepatitis A*: Eight cases of hepatitis A were notified in May 2010 compared to four cases in the same month of the previous year. Ethnicity was reported as Asian (2 cases), Maori (1 case), Pacific Peoples (1 case), European (3 cases) and is unknown for the remaining case. One case reported overseas travel during the incubation period and the country visited was India. Two cases did not report overseas travel during the incubation period. Of these two cases, one was possibly exposed through eating shellfish from various Northland locations and the other case had no obvious risk factors.

- *Invasive pneumococcal disease*: 44 cases of invasive pneumococcal disease (39 confirmed, 5 under investigation) were notified in May 2010 compared to 34 cases notified in the same month the previous year. The highest number of cases were reported in Counties Manukau (8 cases) followed by Waitemata and Waikato (5 cases each) DHBs. Of the 44 cases, 38 (86.4%) were aged 25 years or older. There were 38 (86.4%) hospitalisations and two deaths reported during May.
- *Legionellosis*: 18 cases of legionellosis were notified in May 2010 (4 confirmed, 2 probable and 12 under investigation) compared to six cases notified in the same month of the previous year. The highest number of cases were from Counties Manukau (5 cases), Auckland (4 cases), Waitemata and Canterbury (3 cases each) DHBs. The cases were distributed by age as follows: 5-9 years, 10-14 years, 15-19 years (1 case each), 20-29 years (2 cases), 30-39 years (1 case), 40-49 years (2 case), 50-59 years (4 cases), 60-69 years (2 cases) and 70+ years (4 cases). Eleven cases were hospitalised. The species involved was identified in six cases; *Legionella pneumophila* serogroup 1 (3 cases), *L. longbeachae* serogroup 1 (1 case), *L. longbeachae* serogroup 1 or 2 (1 case), *L. micdadei* (1 case).
- *Meningococcal disease*: Based on the earliest date available¹, seven cases of meningococcal disease were notified during May 2010, all of which were laboratory-confirmed. In comparison, eight cases were notified in the previous month and five during the same month last year. For the 12-month period ending 31 May 2010, the highest incidence rate was reported in Tairāwhiti DHB (10.8 per 100 000 population, 5 cases), followed by MidCentral (6.0 per 100 000, 10 cases) and Hutt Valley (4.9 per 100 000, 7 cases) DHBs. The highest age-specific rate was in infants aged less than one year (50.7 per 100 000 population, 32 cases), followed by those in the 1-4 years age group (14.8 per 100 000, 36 cases).
- *Mumps*: Ten cases of mumps (2 probable, 8 under investigation) were notified in May 2010 compared to three cases in the same month of the previous year. The highest number of cases was reported in Auckland DHB (3 cases), followed by Capital and Coast, and Counties Manukau DHBs (2 cases each). Three of the 10 cases were aged 18 years or older. Of the 10 cases reported, five cases were of Pacific Peoples ethnicity.
- *VTEC/STEC infection*: 11 cases of VTEC/STEC infection were notified in May 2010, compared to five cases notified in the same month of the previous year. The highest numbers of cases were reported in Canterbury (4 cases) and Waikato (3 cases) DHBs. The cases were aged between less than 1 year and 60-69 years, with the highest number of cases in the 1-4 years age group (7 cases). Three cases were hospitalised. *Escherichia coli* O157:H7 was isolated in six cases. Among the cases for which risk factor information was recorded, four cases had contact with children in nappies, three had contact with animals, two had contact with another person with similar symptoms, and two had recreational contact with water.
- *Yersiniosis*: 32 cases of yersiniosis were notified in May 2010 compared to 20 cases notified in the previous month and 28 cases in the same month of the previous year. One case was hospitalised. The highest number of notifications was reported in Capital and Coast DHB (6 cases), followed by Waikato DHB (4 cases). Cases were aged between less than 1 year and 70+ years, with the highest number of notifications in the 1-4 years age group (9 cases). The serotype involved was identified for 17 of the cases: *Yersinia enterocolitica* biotype 4 (10), *Y. enterocolitica* biotype 3 (5), and *Y. enterocolitica* biotype 1A (2).

¹ 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: 20 outbreak reports were entered into EpiSurv and completed during May 2010 (Table 1).

Table 1: Summary of completed outbreaks reported to ESR during May 2010

Organism/Toxin/Illness	Health District(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Cryptosporidium</i>	Waikato	1	5
<i>Escherichia coli</i> O157:H7	Waikato	1	3
Gastroenteritis	Auckland, Wellington, Canterbury	5	13
<i>Giardia</i>	Auckland, Waikato	8	21
<i>Leptospira</i> Tarassovi	Waikato	1	2
Norovirus	Canterbury	3	27
Unknown	Wellington	1	7
Total		20	78

Interim outbreak reports: 33 interim outbreaks have been reported in May 2010. 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 May 2010

Organism/Toxin/Illness	Health District(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Wellington, Canterbury	2	2
<i>Campylobacter</i>	Auckland	1	2
<i>Cryptosporidium</i>	Auckland	1	2
<i>Escherichia coli</i> O157:H7	Auckland, Waikato	2	3
Gastroenteritis	Auckland, Waikato, Rotorua, Hawke's Bay, Manawatu, Wellington	18	63
<i>Giardia</i>	Waikato, Hawke's Bay	2	19
Hepatitis A	Otago	1	2
Norovirus	Northland, Southland	2	16
<i>Salmonella</i>	Auckland, Hawke's Bay	2	9
<i>Shigella</i>	Auckland	1	3
<i>Yersinia</i>	Wellington	1	-
Total		33	121

3. Deaths from notifiable diseases

Three deaths were reported for the month of May from invasive pneumococcal disease and listeriosis-perinatal (Table 3).

Table 3: Summary of deaths from notifiable diseases reported to ESR during May 2010

Disease	District Health Board	Age group
Invasive pneumococcal disease	MidCentral	70+
Invasive pneumococcal disease	Otago	70+
Listeriosis - perinatal	MidCentral	20-29

4. Trends in selected diseases to May 2010

Figure 1: Giardiasis notifications by month by year, January 2004 – May 2010

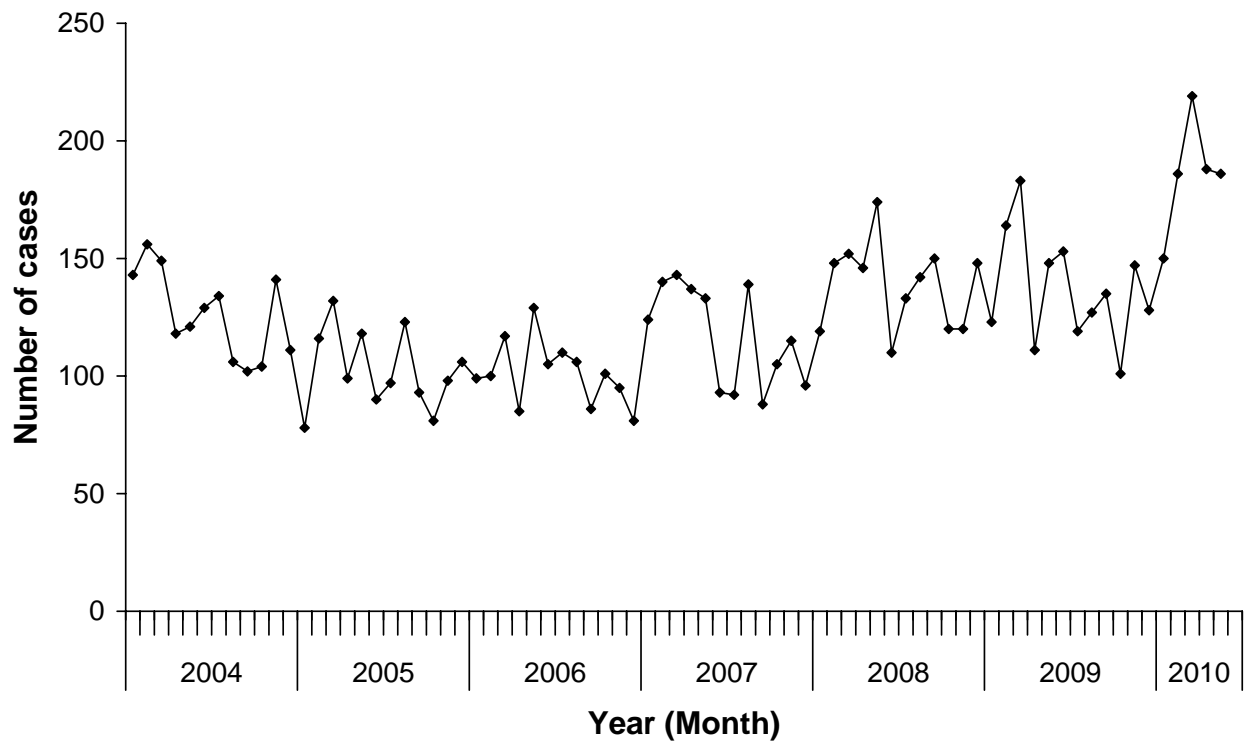
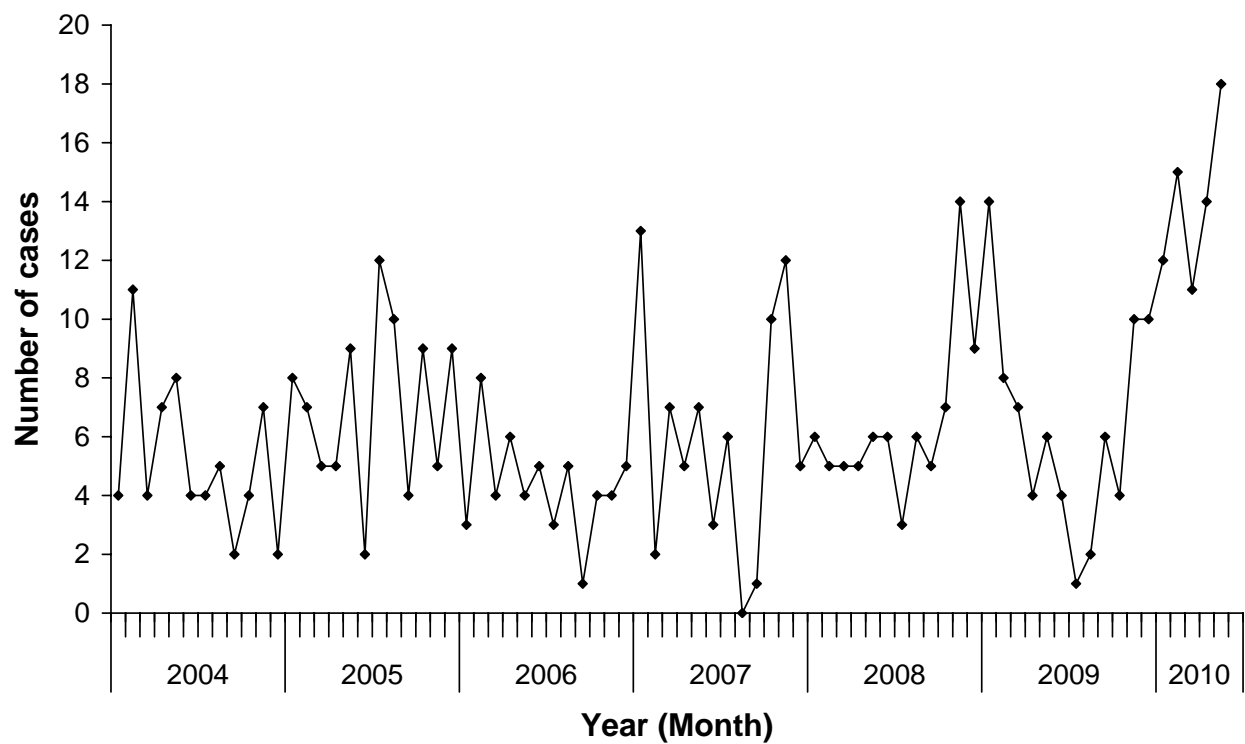


Figure 2: Legionellosis notifications by month by year, January 2004 – May 2010



5. Data Tables

National Notifiable Disease Surveillance Data May 2010

Disease	Current Year - 2010 ¹			Previous Year - 2009		
	May 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	May 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	449	3078	174.1	425	2740	161.5
Cryptosporidiosis	56	382	23.3	45	230	19.7
Dengue fever	4	17	1.5	14	92	3.7
Gastroenteritis ³	33	193	15.3	45	244	15.8
Giardiasis	186	929	42.6	148	729	38.7
Haemophilus influenzae type b	1	6	0.3	1	5	0.2
Hazardous substances injury	1	5	0.3	0	1	0.2
Hepatitis A	8	28	1.3	4	15	1.8
Hepatitis B ⁴	3	19	1.3	4	17	0.8
Hepatitis C ⁴	2	6	0.5	2	15	0.6
Invasive pneumococcal disease ⁵	44	169	15.4	34	202	7.7
Lead absorption	20	81	5.4	33	136	7.9
Legionellosis	18	70	2.5	6	39	2.0
Leptospirosis	7	47	2.1	8	25	2.5
Listeriosis	3	16	0.8	2	10	0.6
Malaria	1	21	1.1	4	25	1.2
Measles	1	41	5.9	0	35	1.0
Meningococcal disease ⁶	7	38	3.2	5	35	2.8
Mumps	10	30	1.7	3	21	1.3
Non seasonal influenza A (H1N1) ⁷	3	9	84.4	18	35	0.8
Paratyphoid fever	2	8	0.5	1	13	0.6
Pertussis	68	413	29.5	106	538	19.7
Rheumatic fever	16	60	3.3	13	59	3.7
Rickettsial disease	2	4	0.2	0	0	0.2
Rubella	1	2	0.0	2	4	0.2
Salmonellosis	76	496	23.6	83	605	28.6
Shigellosis	12	45	2.3	12	65	2.9
Tuberculosis disease	30	138	7.2	26	129	7.0
Typhoid fever	2	19	0.7	2	24	1.0
VTEC/STEC infection	11	65	3.0	5	80	3.1
Yersiniosis	32	164	8.6	28	221	11.0

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including May 2010) or the previous year (12 months up to and including May 2009), expressed as cases per 100 000

³ Cases of gastroenteritis from a common source or foodborne intoxication

⁴ Only acute cases of this disease are currently notifiable

⁵ Invasive pneumococcal disease became a notifiable disease on the 17th October 2008

⁶ 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

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

Other notifiable infectious disease reported in May: Tetanus (1)

Notifiable Disease Surveillance Data by District Health Board May 2010

		Cases ¹ and current rate ² for May 2010 by District Health Board ³																				
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	8	60	41	31	29	16	20	1	14	10	3	27	33	42	4	9	3	59	7	15	17
	Rate	124.6	176.6	172.7	138.1	186.1	198.4	159.3	95.2	253.1	233.3	221.7	153.7	278.9	247.5	207.7	131.6	178.0	139.4	194.4	144.3	149.3
Cryptosporidiosis	Cases	2	7	8	0	8	0	1	0	0	1	0	2	1	2	0	2	0	18	1	3	0
	Rate	25.7	17.4	15.1	9.1	34.2	11.8	8.2	15.2	22.2	20.8	14.3	15.1	10.5	40.6	25.0	28.5	67.5	43.4	52.2	19.1	25.0
Dengue fever	Cases	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.3	2.1	3.6	1.7	1.7	1.0	1.0	0.0	0.9	0.6	0.0	0.6	0.7	3.1	0.0	0.0	0.0	1.0	0.0	0.0	0.0
Gastroenteritis	Cases	0	1	7	1	6	0	0	0	0	0	0	4	1	3	0	0	0	7	0	3	0
	Rate	1.9	16.3	24.5	7.7	7.5	5.9	3.9	0.0	2.8	7.8	20.6	40.4	29.4	27.8	2.5	5.8	276.2	9.6	3.6	9.6	1.8
Giardiasis	Cases	9	15	31	13	21	4	5	1	1	23	3	1	4	10	5	10	0	20	4	5	1
	Rate	37.9	39.7	57.4	39.9	50.0	58.0	31.8	17.3	45.3	57.2	49.1	16.3	32.9	55.9	50.0	36.5	39.9	44.2	25.2	30.8	26.8
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	0.0	0.4	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.6	1.6	0.6	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Hazardous substances injury	Cases	0	0	1	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	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.6	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis A	Cases	1	1	0	2	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2	0
	Rate	0.6	0.9	2.5	1.5	1.7	1.0	1.0	0.0	0.0	1.9	0.0	3.0	2.1	1.0	0.0	0.0	0.0	1.4	0.0	1.1	0.9
Hepatitis B	Cases	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	1.9	1.1	2.0	1.7	0.3	2.0	1.9	4.3	0.0	0.6	1.6	0.6	0.0	1.4	7.5	2.2	6.1	1.0	0.0	1.1	0.0
Hepatitis C	Cases	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0.6	0.0	0.2	0.6	0.0	0.0	0.0	0.0	4.6	0.0	0.0	0.6	1.4	0.7	7.5	0.0	0.0	0.6	1.8	0.5	0.0
Invasive pneumococcal disease ⁴	Cases	0	5	2	8	5	0	2	0	2	3	1	2	0	3	0	1	0	4	0	3	3
	Rate	18.0	11.9	11.5	20.3	20.0	26.5	23.1	19.5	18.5	22.7	22.2	13.3	17.5	10.8	22.5	11.0	0.0	9.2	7.2	15.4	16.1
Lead absorption	Cases	2	0	2	0	4	0	1	0	0	2	1	1	0	0	0	1	0	4	0	2	0
	Rate	3.9	3.0	3.4	6.0	5.0	6.9	1.9	10.8	1.8	3.2	9.5	8.4	10.5	3.8	5.0	8.0	0.0	6.4	16.2	10.6	4.5
Legionellosis	Cases	1	3	4	5	0	0	0	0	1	0	0	1	0	0	0	0	0	3	0	0	0
	Rate	8.3	3.2	2.7	2.5	0.6	0.0	2.9	2.2	1.8	3.2	0.0	1.8	1.4	0.3	0.0	0.7	12.3	4.4	3.6	0.5	0.9
Leptospirosis	Cases	0	0	0	0	2	0	0	0	1	1	0	1	0	0	0	0	2	0	0	0	0
	Rate	1.9	0.2	0.2	0.2	6.4	2.9	2.4	0.0	4.6	3.2	6.3	7.8	0.0	0.3	0.0	2.2	18.4	2.0	1.8	0.0	5.4
Listeriosis	Cases	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.8	1.4	0.8	1.4	0.0	1.4	6.5	0.9	0.0	0.0	2.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0
Malaria	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	1.1	2.0	2.5	0.8	0.0	1.4	0.0	0.9	0.6	0.0	0.0	0.0	1.0	2.5	1.5	0.0	0.8	0.0	0.0	0.9
Measles	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	23.8	2.5	1.8	0.6	0.3	1.0	1.0	0.0	0.0	0.6	1.6	1.2	0.0	0.7	0.0	1.5	21.5	33.3	1.8	2.1	1.8
Meningococcal disease ⁵	Cases	0	0	1	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	2
	Rate	3.9	1.3	2.9	3.9	2.8	2.0	4.8	10.8	3.7	5.2	1.6	6.0	4.9	3.1	2.5	0.0	3.1	2.6	0.0	2.7	4.5
Mumps	Cases	0	0	3	2	0	0	0	0	0	0	0	0	1	2	0	1	0	1	0	0	0
	Rate	1.9	0.9	1.8	1.9	0.8	1.0	1.0	0.0	3.7	0.6	0.0	0.0	1.4	3.5	5.0	2.2	3.1	2.8	1.8	1.6	0.0
Non seasonal influenza A (H1N1) ⁶	Cases	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	115.6	59.8	82.6	65.0	50.3	49.1	50.5	108.2	30.5	109.2	112.4	47.6	149.3	179.1	135.1	58.5	199.4	119.3	138.6	42.4	41.1
Paratyphoid fever	Cases	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.8	0.7	0.4	0.6	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.7	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Pertussis	Cases	1	4	3	6	7	0	3	0	2	1	0	0	0	14	0	1	3	18	0	3	2
	Rate	8.3	20.6	14.2	14.3	63.6	16.7	26.0	28.1	52.7	16.2	14.3	24.1	39.9	45.8	27.5	27.0	36.8	51.8	45.0	9.0	21.5
Rheumatic fever	Cases	1	1	2	4	3	1	1	0	0	0	0	0	0	2	0	0	0	1	0	0	0
	Rate	10.9	1.7	2.7	9.1	6.4	2.9	1.9	23.8	0.9	3.2	0.0	0.6	1.4	2.8	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Rickettsial disease	Cases	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.4	0.2	0.2	1.1	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	0.0	0.0	0.0	0.0	0.5	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
Salmonellosis	Cases	4	9	3	8	4	1	4	2	3	4	1	4	1	2	0	6	0	11	2	6	1
	Rate	23.1	15.0	19.8	16.0	26.1	17.7	18.3	41.1	16.6	31.8	14.3	21.7	18.9	18.7	32.5	32.2	30.7	29.3	55.8	49.3	34.9
Shigellosis	Cases	0	3	1	0	2	0	0	0	0	2	0	0	0	0	0	0	0	4	0	0	0
	Rate	1.9	3.2	2.9	4.2	2.5	0.0	1.9	0.0	0.0	1.3	0.0	0.6	2.1	1.7	0.0	0.7	3.1	2.4	1.8	3.2	0.9
Tuberculosis disease	Cases	1	1	8	4	3	1	1	2	1	0	0	1	0	2	0	0	1	2	0	2	0
	Rate	4.5	8.9	13.3	13.9	3.9	4.9	6.3	19.5	1.8	7.1	3.2	4.2	7.0	6.6	0.0	3.7	9.2	4.4	7.2	1.6	0.9
Typhoid fever	Cases	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.9	2.0	1.2	0.8	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.4	0.0	0.0	0.0
VTEC/STEC infection	Cases	0	0	0	1	3	1	0	1	0	1	0	0	0	0	0	0	0	4	0	0	0
	Rate	1.9	1.5	1.8	1.7	6.1	3.9	5.8	4.3	10.2	3.2	1.6	1.2	0.0	1.4	2.5	2.2	0.0	5.0	3.6	2.1	2.7
Yersiniosis	Cases	2	3	3	3	4	1	0	0	0	1	1	2	1	6	0	1	1	2	0	1	0
	Rate	5.8	9.3	12.6	6.2	6.7	9.8	2.9	6.5	5.5	10.4	7.9	4.2	15.4	15.6	2.5	2.2	33.8	8.8	12.6	9.0	1.8

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including May 2010 expressed as cases per 100 000

³ Further data are available from the local Medical Officer of Health

⁴ Invasive pneumococcal disease became a notifiable disease on the 17th October 2008

⁵ 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

⁶ 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 May 2010

		Cases ¹ and current rate ² for May 2010 by District Health Board ³																				
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	8	60	41	31	29	16	20	1	14	10	3	27	33	42	4	9	3	59	7	15	17
	Rate	124.6	176.6	172.7	138.1	186.1	198.4	159.3	95.2	253.1	233.3	221.7	153.7	278.9	247.5	207.7	131.6	178.0	139.4	194.4	144.3	149.3
Cryptosporidiosis	Cases	2	7	8	0	8	0	1	0	0	1	0	2	1	2	0	2	0	18	1	3	0
	Rate	25.7	17.4	15.1	9.1	34.2	11.8	8.2	15.2	22.2	20.8	14.3	15.1	10.5	40.6	25.0	28.5	67.5	43.4	52.2	19.1	25.0
Dengue fever	Cases	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.3	2.1	3.6	1.7	1.7	1.0	1.0	0.0	0.9	0.6	0.0	0.6	0.7	3.1	0.0	0.0	0.0	1.0	0.0	0.0	0.0
Gastroenteritis	Cases	0	1	7	1	6	0	0	0	0	0	0	4	1	3	0	0	0	7	0	3	0
	Rate	1.9	16.3	24.5	7.7	7.5	5.9	3.9	0.0	2.8	7.8	20.6	40.4	29.4	27.8	2.5	5.8	276.2	9.6	3.6	9.6	1.8
Giardiasis	Cases	9	15	31	13	21	4	5	1	1	23	3	1	4	10	5	10	0	20	4	5	1
	Rate	37.9	39.7	57.4	39.9	50.0	58.0	31.8	17.3	45.3	57.2	49.1	16.3	32.9	55.9	50.0	36.5	39.9	44.2	25.2	30.8	26.8
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	0.0	0.4	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.6	1.6	0.6	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Hazardous substances injury	Cases	0	0	1	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	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.6	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis A	Cases	1	1	0	2	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2	0
	Rate	0.6	0.9	2.5	1.5	1.7	1.0	1.0	0.0	0.0	1.9	0.0	3.0	2.1	1.0	0.0	0.0	0.0	1.4	0.0	1.1	0.9
Hepatitis B	Cases	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	1.9	1.1	2.0	1.7	0.3	2.0	1.9	4.3	0.0	0.6	1.6	0.6	0.0	1.4	7.5	2.2	6.1	1.0	0.0	1.1	0.0
Hepatitis C	Cases	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0.6	0.0	0.2	0.6	0.0	0.0	0.0	0.0	4.6	0.0	0.0	0.6	1.4	0.7	7.5	0.0	0.0	0.6	1.8	0.5	0.0
Invasive pneumococcal disease ⁴	Cases	0	5	2	8	5	0	2	0	2	3	1	2	0	3	0	1	0	4	0	3	3
	Rate	18.0	11.9	11.5	20.3	20.0	26.5	23.1	19.5	18.5	22.7	22.2	13.3	17.5	10.8	22.5	11.0	0.0	9.2	7.2	15.4	16.1
Lead absorption	Cases	2	0	2	0	4	0	1	0	0	2	1	1	0	0	0	1	0	4	0	2	0
	Rate	3.9	3.0	3.4	6.0	5.0	6.9	1.9	10.8	1.8	3.2	9.5	8.4	10.5	3.8	5.0	8.0	0.0	6.4	16.2	10.6	4.5
Legionellosis	Cases	1	3	4	5	0	0	0	0	1	0	0	1	0	0	0	0	0	3	0	0	0
	Rate	8.3	3.2	2.7	2.5	0.6	0.0	2.9	2.2	1.8	3.2	0.0	1.8	1.4	0.3	0.0	0.7	12.3	4.4	3.6	0.5	0.9
Leptospirosis	Cases	0	0	0	0	2	0	0	0	1	1	0	1	0	0	0	0	2	0	0	0	0
	Rate	1.9	0.2	0.2	0.2	6.4	2.9	2.4	0.0	4.6	3.2	6.3	7.8	0.0	0.3	0.0	2.2	18.4	2.0	1.8	0.0	5.4
Listeriosis	Cases	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.8	1.4	0.8	1.4	0.0	1.4	6.5	0.9	0.0	0.0	2.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0
Malaria	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	1.1	2.0	2.5	0.8	0.0	1.4	0.0	0.9	0.6	0.0	0.0	0.0	1.0	2.5	1.5	0.0	0.8	0.0	0.0	0.9
Measles	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	23.8	2.5	1.8	0.6	0.3	1.0	1.0	0.0	0.0	0.6	1.6	1.2	0.0	0.7	0.0	1.5	21.5	33.3	1.8	2.1	1.8
Meningococcal disease ⁵	Cases	0	0	1	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	2
	Rate	3.9	1.3	2.9	3.9	2.8	2.0	4.8	10.8	3.7	5.2	1.6	6.0	4.9	3.1	2.5	0.0	3.1	2.6	0.0	2.7	4.5
Mumps	Cases	0	0	3	2	0	0	0	0	0	0	0	0	1	2	0	1	0	1	0	0	0
	Rate	1.9	0.9	1.8	1.9	0.8	1.0	1.0	0.0	3.7	0.6	0.0	0.0	1.4	3.5	5.0	2.2	3.1	2.8	1.8	1.6	0.0
Non seasonal influenza A (H1N1) ⁶	Cases	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	115.6	59.8	82.6	65.0	50.3	49.1	50.5	108.2	30.5	109.2	112.4	47.6	149.3	179.1	135.1	58.5	199.4	119.3	138.6	42.4	41.1
Paratyphoid fever	Cases	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.8	0.7	0.4	0.6	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.7	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Pertussis	Cases	1	4	3	6	7	0	3	0	2	1	0	0	0	14	0	1	3	18	0	3	2
	Rate	8.3	20.6	14.2	14.3	63.6	16.7	26.0	28.1	52.7	16.2	14.3	24.1	39.9	45.8	27.5	27.0	36.8	51.8	45.0	9.0	21.5
Rheumatic fever	Cases	1	1	2	4	3	1	1	0	0	0	0	0	0	2	0	0	0	1	0	0	0
	Rate	10.9	1.7	2.7	9.1	6.4	2.9	1.9	23.8	0.9	3.2	0.0	0.6	1.4	2.8	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Rickettsial disease	Cases	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.4	0.2	0.2	1.1	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	0.0	0.0	0.0	0.0	0.5	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
Salmonellosis	Cases	4	9	3	8	4	1	4	2	3	4	1	4	1	2	0	6	0	11	2	6	1
	Rate	23.1	15.0	19.8	16.0	26.1	17.7	18.3	41.1	16.6	31.8	14.3	21.7	18.9	18.7	32.5	32.2	30.7	29.3	55.8	49.3	34.9
Shigellosis	Cases	0	3	1	0	2	0	0	0	0	2	0	0	0	0	0	0	0	4	0	0	0
	Rate	1.9	3.2	2.9	4.2	2.5	0.0	1.9	0.0	0.0	1.3	0.0	0.6	2.1	1.7	0.0	0.7	3.1	2.4	1.8	3.2	0.9
Tuberculosis disease	Cases	1	1	8	4	3	1	1	2	1	0	0	1	0	2	0	0	1	2	0	2	0
	Rate	4.5	8.9	13.3	13.9	3.9	4.9	6.3	19.5	1.8	7.1	3.2	4.2	7.0	6.6	0.0	3.7	9.2	4.4	7.2	1.6	0.9
Typhoid fever	Cases	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.9	2.0	1.2	0.8	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.4	0.0	0.0	0.0
VTEC/STEC infection	Cases	0	0	0	1	3	1	0	1	0	1	0	0	0	0	0	0	0	4	0	0	0
	Rate	1.9	1.5	1.8	1.7	6.1	3.9	5.8	4.3	10.2	3.2	1.6	1.2	0.0	1.4	2.5	2.2	0.0	5.0	3.6	2.1	2.7
Yersiniosis	Cases	2	3	3	3	4	1	0	0	0	1	1	2	1	6	0	1	1	2	0	1	0
	Rate	5.8	9.3	12.6	6.2	6.7	9.8	2.9	6.5	5.5	10.4	7.9	4.2	15.4	15.6	2.5	2.2	33.8	8.8	12.6	9.0	1.8

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including May 2010 expressed as cases per 100 000

³ Further data are available from the local Medical Officer of Health

⁴ Invasive pneumococcal disease became a notifiable disease on the 17th October 2008

⁵ 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

⁶ Non–seasonal influenza (capable of transmission between human beings) became an infectious notifiable disease on 29 April 2009.

Notifiable Disease Surveillance Data for the 12 months ending May-2010 by District Health Board

Disease	Cases for the 12 months ending May 2010 ^{1 2} by District Health Board ³																					
	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	7513	194	933	767	665	670	202	331	44	274	359	140	255	398	713	83	180	58	700	108	272	167
Cryptosporidiosis	1006	40	92	67	44	123	12	17	7	24	32	9	25	15	117	10	39	22	218	29	36	28
Dengue fever	64	2	11	16	8	6	1	2	0	1	1	0	1	1	9	0	0	0	5	0	0	0
Gastroenteritis	662	3	86	109	37	27	6	8	0	3	12	13	67	42	80	1	8	90	48	2	18	2
Giardiasis	1839	59	210	255	192	180	59	66	8	49	88	31	27	47	161	20	50	13	222	14	58	30
Haemophilus influenzae type b	11	0	2	0	2	3	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0
Hazardous substances injury	15	1	4	3	0	0	0	0	0	0	5	0	1	0	1	0	0	0	0	0	0	0
Hepatitis A	57	1	5	11	7	6	1	2	0	0	3	0	5	3	3	0	0	0	7	0	2	1
Hepatitis B	57	3	6	9	8	1	2	4	2	0	1	1	1	0	4	3	3	2	5	0	2	0
Hepatitis C	23	1	0	1	3	0	0	0	0	5	0	0	1	2	2	3	0	0	3	1	1	0
Invasive pneumococcal disease ⁴	664	28	63	51	98	72	27	48	9	20	35	14	22	25	31	9	15	0	46	4	29	18
Lead absorption	232	6	16	15	29	18	7	4	5	2	5	6	14	15	11	2	11	0	32	9	20	5
Legionellosis	107	13	17	12	12	2	0	6	1	2	5	0	3	2	1	0	1	4	22	2	1	1
Leptospirosis	91	3	1	1	1	23	3	5	0	5	5	4	13	0	1	0	3	6	10	1	0	6
Listeriosis	34	0	4	6	4	5	0	3	3	1	0	0	4	1	0	0	0	0	0	0	3	0
Malaria	46	0	6	9	12	3	0	3	0	1	1	0	0	0	3	1	2	0	4	0	0	1
Measles	254	37	13	8	3	1	1	2	0	0	1	1	2	0	2	0	2	7	167	1	4	2
Meningococcal disease ⁵	136	6	7	13	19	10	2	10	5	4	8	1	10	7	9	1	0	1	13	0	5	5
Mumps	72	3	5	8	9	3	1	2	0	4	1	0	0	2	10	2	3	1	14	1	3	0
Non seasonal influenza A (H1N1) ⁶	3643	180	316	367	313	181	50	105	50	33	168	71	79	213	516	54	80	65	599	77	80	46
Paratyphoid fever	20	0	4	3	2	2	2	0	0	0	0	0	0	1	5	0	0	0	1	0	0	0
Pertussis	1273	13	109	63	69	229	17	54	13	57	25	9	40	57	132	11	37	12	260	25	17	24
Rheumatic fever	141	17	9	12	44	23	3	4	11	1	5	0	1	2	8	0	0	0	1	0	0	0
Rickettsial disease	9	1	2	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmonellosis	1019	36	79	88	77	94	18	38	19	18	49	9	36	27	54	13	44	10	147	31	93	39
Shigellosis	99	3	17	13	20	9	0	4	0	0	2	0	1	3	5	0	1	1	12	1	6	1
Tuberculosis disease	310	7	47	59	67	14	5	13	9	2	11	2	7	10	19	0	5	3	22	4	3	1
Typhoid fever	29	0	5	9	6	3	0	3	0	0	0	0	0	0	1	0	0	0	2	0	0	0
VTEC/STEC infection	128	3	8	8	8	22	4	12	2	11	5	1	2	0	4	1	3	0	25	2	4	3
Yersiniosis	373	9	49	56	30	24	10	6	3	6	16	5	7	22	45	1	3	11	44	7	17	2
Total	19929	669	2127	2040	1790	1758	433	753	191	523	844	318	625	895	1947	215	490	306	2630	319	674	382

¹ These data are provisional

² Further data are available from the local Medical Officer of Health

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

⁴ Invasive pneumococcal disease became a notifiable disease on the 17th October 2008

⁵ 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

⁶ Non-seasonal influenza (capable of transmission between human beings) became an infectious notifiable disease on 29 April 2009.

National Notifiable Disease Surveillance Data May 2010

Disease	Current Year - 2010 ¹			Previous Year - 2009		
	May 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	May 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	449	3078	174.1	425	2740	161.5
Cryptosporidiosis	56	382	23.3	45	230	19.7
Dengue fever	4	17	1.5	14	92	3.7
Gastroenteritis ³	33	193	15.3	45	244	15.8
Giardiasis	186	929	42.6	148	729	38.7
Haemophilus influenzae type b	1	6	0.3	1	5	0.2
Hazardous substances injury	1	5	0.3	0	1	0.2
Hepatitis A	8	28	1.3	4	15	1.8
Hepatitis B ⁴	3	19	1.3	4	17	0.8
Hepatitis C ⁴	2	6	0.5	2	15	0.6
Invasive pneumococcal disease ⁵	44	169	15.4	34	202	7.7
Lead absorption	20	81	5.4	33	136	7.9
Legionellosis	18	70	2.5	6	39	2.0
Leptospirosis	7	47	2.1	8	25	2.5
Listeriosis	3	16	0.8	2	10	0.6
Malaria	1	21	1.1	4	25	1.2
Measles	1	41	5.9	0	35	1.0
Meningococcal disease ⁶	7	38	3.2	5	35	2.8
Mumps	10	30	1.7	3	21	1.3
Non seasonal influenza A (H1N1) ⁷	3	9	84.4	18	35	0.8
Paratyphoid fever	2	8	0.5	1	13	0.6
Pertussis	68	413	29.5	106	538	19.7
Rheumatic fever	16	60	3.3	13	59	3.7
Rickettsial disease	2	4	0.2	0	0	0.2
Rubella	1	2	0.0	2	4	0.2
Salmonellosis	76	496	23.6	83	605	28.6
Shigellosis	12	45	2.3	12	65	2.9
Tuberculosis disease	30	138	7.2	26	129	7.0
Typhoid fever	2	19	0.7	2	24	1.0
VTEC/STEC infection	11	65	3.0	5	80	3.1
Yersiniosis	32	164	8.6	28	221	11.0

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including May 2010) or the previous year (12 months up to and including May 2009), expressed as cases per 100 000

³ Cases of gastroenteritis from a common source or foodborne intoxication

⁴ Only acute cases of this disease are currently notifiable

⁵ Invasive pneumococcal disease became a notifiable disease on the 17th October 2008

⁶ 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

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

Other notifiable infectious disease reported in May: Tetanus (1)