

MONTHLY NOTIFIABLE DISEASE SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by public health service (PHS) staff as at 7 June 2011. Changes made to EpiSurv data after this date will not be reflected in this report. The results presented may be updated and should be regarded as provisional.

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1. Key notifiable disease trends

- Campylobacteriosis:*** 482 cases of campylobacteriosis were notified in May 2011 compared to 450 cases notified in the same month of the previous year. There were 399 (82.8%) cases that were laboratory-confirmed. For the 12-month period ending 31 May 2011, the highest rates were reported in South Canterbury (218.4 per 100 000 population, 122 cases), Southern (203.5 per 100 000, 617 cases), and Hawke's Bay (194.5 per 100 000, 302 cases) DHBs compared to a national rate of 152.1 per 100 000.
- Gastroenteritis:*** 76 cases of gastroenteritis were notified in May 2011, compared to 34 cases notified in the same month of the previous year. A causal agent was confirmed for 24 (31.6%) cases and the pathogens reported were norovirus (23 cases) and rotavirus (1 case). In addition, there was one case with probable staphylococcal food intoxication. The highest number of cases was reported in MidCentral DHB (36 cases). Cases ranged in age between less than 1 year and 70+ years, with the highest number of cases in the 70+ years (29 cases) and 20-29 years (12 cases) age groups. Of the 76 cases reported, 31 were associated with 11 different outbreaks.
- Legionellosis:*** 19 cases of legionellosis were notified in May 2011 (6 confirmed, 3 probable and 10 under investigation), compared to 7 cases notified in the same month of the previous year. The following section relates to the nine confirmed and probable cases only. The highest number of cases was reported in Northland DHB (6 cases). Cases were distributed by age group as follows: 30-39 years (1), 40-49 years (1), 50-59 years (2), 60-69 years (1), and 70+ years (4). Seven hospitalisations were reported. Among the cases where risk information was recorded, three reported exposure to environmental sources of infection (2 cases reported exposure to compost/potting mix and one to a spa pool), one was a smoker and one reported no obvious risk factors. The *Legionella* species was identified in four cases: *Legionella longbeachae* serogroup 1 or 2 (2 cases), *L. longbeachae* serogroup 1 and *L. longbeachae* serogroup 2 (1 case each).
- Measles:*** 7 cases of measles were notified in May 2011 (3 confirmed, 1 probable, 3 under investigation), compared to 15 cases notified in the previous month and no cases in the same month of the previous year. The remainder of this section relates to the four confirmed and probable cases only. The cases were reported in Hawke's Bay (2 cases), Waitemata, and Canterbury (1 case each) DHBs. Cases were distributed as follows: 1-4 years, 5-9 years, 20-29 years, and 30-39 years (1 case each) age groups. One hospitalisation was reported. Two cases

were not immunised (including one case aged 15 months and therefore just eligible for immunisation) and the vaccination status was unknown for the remaining two cases.

- *Rickettsial disease*: One case of rickettsial disease was notified in May 2011. The case was subsequently reclassified as leptospirosis following a high *L. borgpetersenii* serovar Ballum titre. The case was a male in the 50-59 years age group from Waitemata DHB who had occupational contact with deer and rat urine.
- *Salmonellosis*: 90 cases of salmonellosis were notified in May 2011, compared to 113 cases notified in the preceding month and 76 cases the same month of the previous year. The highest number of cases were reported in Canterbury (21 cases), Southern (12 cases), and Auckland (11 cases) DHBs. Cases occurred in all age groups, with the highest number of cases in 1-4 years age group (20 cases). Six cases were hospitalised. The serotype involved was identified in 32 (35.6%) of the cases. The most common serotypes were: *Salmonella* Infantis (7 cases), *S. Typhimurium* phage type 1 and *S. Typhimurium* phage type 101 (6 cases each). Among the cases for which risk factor information was recorded, 37.5% (15/40) had contact with farm animals, 34.2% (13/38) had consumed food from a food premise, 23.1% (9/39) had recreational contact with water, 22.7% (10/44) had travelled overseas and 20.0% (7/35) had consumed untreated water during the incubation period.
- *Tuberculosis disease*: 35 cases of tuberculosis disease were notified in May 2011 (33 new cases and 2 reactivations), compared to 25 cases notified in the same month of the previous year (Figure 1). The highest number of cases was reported from Auckland DHB (10 cases), followed by Counties Manukau DHB (6 cases). Cases ranged in age between less than 1 year to 70+ years, with the highest numbers of cases in the 40-49 years (11 cases) and 60-69 years (7 cases) age groups. Of the 25 (71.4%) cases for which place of birth was recorded, 20 (80.0%) were born outside New Zealand. Twenty (57.1%) cases were laboratory confirmed. Of these, 16 cases had *Mycobacterium tuberculosis* isolated and the organism was unknown for the remaining four cases.
- *VTEC/STEC infection*: 21 cases of VTEC/STEC infection were notified in May 2011, compared with 18 cases notified in the preceding month and 11 cases in the same month of the previous year (Figure 2). The highest numbers of cases were reported in Canterbury (5 cases) and Waitemata (4 cases) DHBs. Cases were distributed by as follows: less than 1 year (2 cases), 1-4 years (6), 5-9 years (4), 15-19 years (1), 40-49 years (1), 60-69 years (2), and 70+ years (5) age groups. Six cases were hospitalised. *Escherichia coli* O157:H7 was isolated in 10 cases and *E. coli* O128:H2 in one case. Among the cases for which risk factor information was recorded, 87.5% (7/8) had contact with pets, 81.8% (9/11) had contact with animals, 75.0% (6/8) had consumed water from a non-habitual water supply, 33.3% (3/9) had contact with farm animals, and 20.0% (2/10) had attended school during the incubation period.

2. Outbreaks

Finalised outbreak reports: 23 outbreak reports were created and finalised in EpiSurv during May 2011 (Table 1).

Table 1: Summary of finalised outbreaks created in EpiSurv during May 2011

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Hawke's Bay	1	5
Gastroenteritis ¹	Waikato, MidCentral, Hutt Valley, Capital and Coast, Wairarapa	6	89
<i>Giardia</i> ¹	Auckland, Waikato, Southern	4	13
Norovirus	MidCentral, Wairarapa, Nelson Marlborough, Canterbury, South Canterbury, West Coast	8	189
Norovirus/rotavirus	Canterbury	1	37
<i>Salmonella</i> ^{1,2}	Counties Manukau, Waikato	2	5
Sapovirus	Hutt Valley	1	19
Total		23	357

¹Includes outbreaks of gastroenteritis, *Giardia* and *Salmonella* (1 each) reported to PHS in March and April 2011.

²*Salmonella* outbreak reported in Waikato DHB had overseas exposure location (Cambodia).

Interim outbreak reports: 43 interim outbreaks were created in EpiSurv during May 2011 (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 created in EpiSurv during May 2011

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Canterbury	1	5
<i>Campylobacter</i>	Northland, Waikato, Southern	3	15
Gastroenteritis ¹	Northland, Waitemata, Auckland, Counties Manukau, Taranaki, MidCentral, Hutt Valley, Capital and Coast, Southern	28	100
<i>Giardia</i>	Waikato	1	3
<i>Legionella</i> ¹	Nelson Marlborough	1	6
Norovirus	Northland, Waitemata, MidCentral, Hutt Valley	5	11
<i>Salmonella</i> Paratyphi ^{1,2}	Auckland	1	2
<i>Salmonella</i> Typhi ^{1,3}	Waitemata	1	2
Sapovirus	Southern	1	28
<i>Yersinia</i>	Waikato	1	2
Total		43	174

¹Includes outbreaks of gastroenteritis (2), *Legionella*, *Salmonella* Paratyphi, and *Salmonella* Typhi (1 each) reported to PHS in March and April 2011.

²*Salmonella* Paratyphi outbreak reported in Auckland DHB had overseas exposure location (India).

³*Salmonella* Typhi outbreak reported in Waitemata DHB had overseas exposure location (Indonesia).

3. Deaths from notifiable diseases

Four deaths were reported in May 2011 from invasive pneumococcal disease and legionellosis (Table 3).

Table 3: Summary of deaths from notifiable diseases reported during May 2011

Disease	District Health Board	Age group (years)
Invasive pneumococcal disease	Lakes	70+
Invasive pneumococcal disease	MidCentral	70+
Invasive pneumococcal disease	Hutt Valley	70+
Legionellosis	Bay of Plenty	70+

4. Trends in selected diseases to May 2011

Figure 1: Tuberculosis disease notifications by month, January 2006 – May 2011

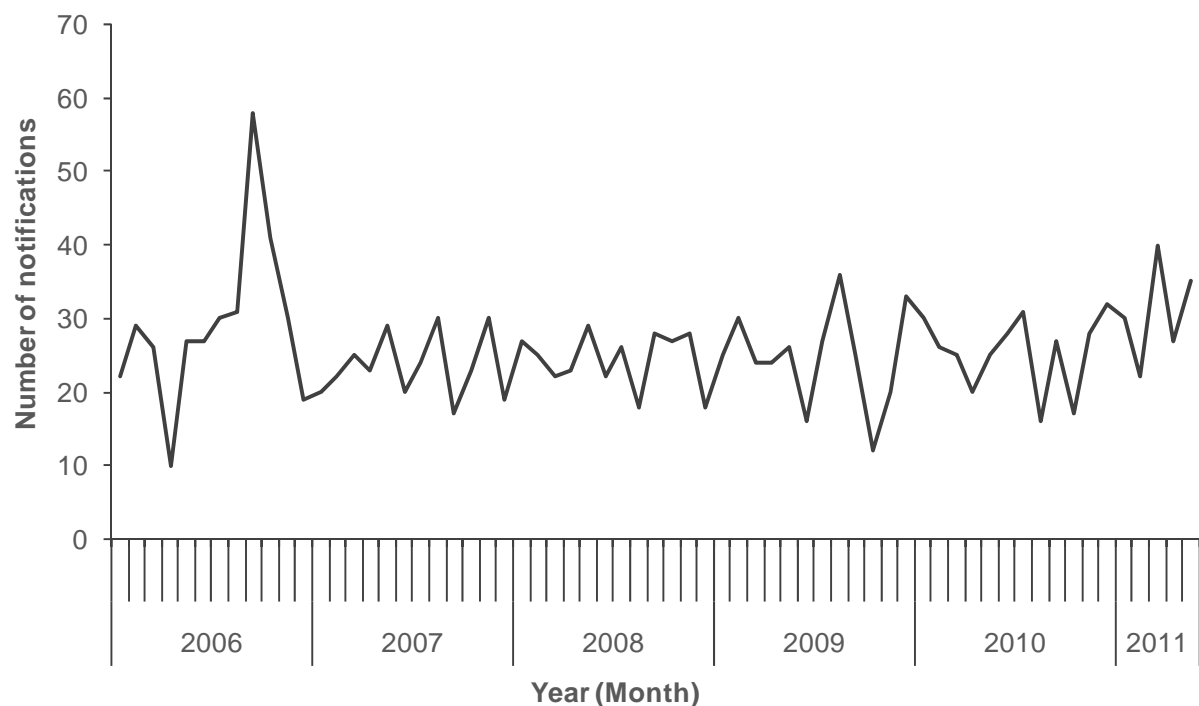
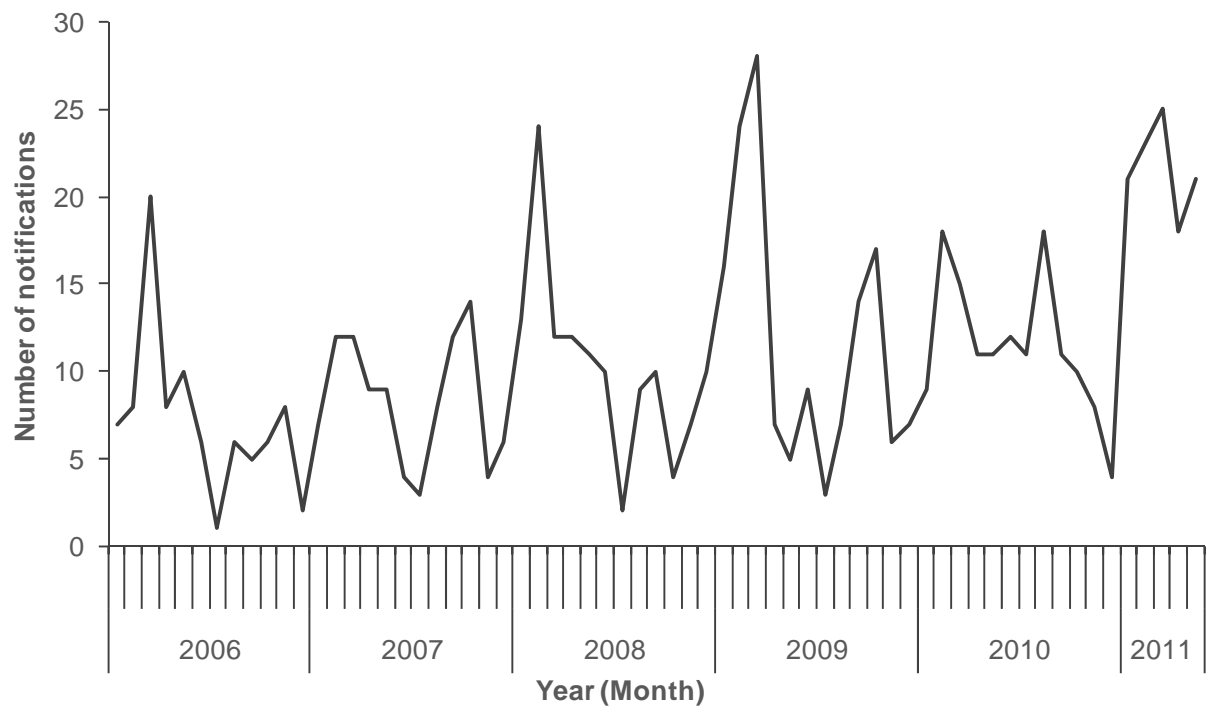


Figure 2: VTEC/STEC infection notifications by month, January 2006 – May 2011



5. Data tables

National Notifiable Disease Surveillance Data May 2011

Disease	Current Year - 2011 ¹			Previous Year - 2010		
	May 2011 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	May 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	482	2374	152.1	450	3078	174.1
Cryptosporidiosis	36	140	16.3	57	384	23.4
Dengue fever	6	18	1.2	4	17	1.5
Gastroenteritis ³	76	302	13.8	34	190	15.2
Giardiasis	167	937	45.7	185	928	42.6
<i>Haemophilus influenzae</i> type b	2	3	0.1	0	5	0.2
Hepatitis A	1	11	0.7	6	26	1.3
Hepatitis B ⁴	6	29	1.4	2	17	1.3
Hepatitis C ⁴	5	12	0.5	1	5	0.5
Invasive pneumococcal disease	39	144	11.7	44	169	15.4
Lead absorption	20	124	5.9	29	100	7.1
Legionellosis	19	82	4.7	7	50	2.0
Leptospirosis	9	36	1.7	6	41	2.0
Listeriosis	3	13	0.5	3	16	0.8
Malaria	6	19	1.0	1	21	1.1
Measles	7	57	1.6	0	37	5.8
Meningococcal disease	9	32	2.1	6	36	3.1
Mumps	3	20	1.0	4	19	1.4
Paratyphoid fever	0	8	0.4	2	8	0.5
Pertussis	68	290	17.4	61	404	29.3
Rheumatic fever	14	62	3.8	16	62	3.3
Rickettsial disease	1	2	0.3	1	3	0.2
Rubella	1	6	0.2	0	1	0.0
Salmonellosis	90	572	28.0	76	496	23.6
Shigellosis	5	41	2.3	11	44	2.3
Tuberculosis disease	35	154	7.6	25	126	6.8
Typhoid fever	1	21	0.8	2	19	0.7
VTEC/STEC infection	21	108	4.2	11	64	2.9
Yersiniosis	24	186	9.8	31	163	8.6

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including May 2011) or the previous year (12 months up to and including May 2010), 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

Other notifiable infectious disease reported in May: Hepatitis NOS (2)

Notifiable Disease Surveillance Data by District Health Board May 2011

		Cases ¹ and current rate ² for May 2011 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	Southern
Campylobacteriosis	Cases	25	43	36	40	45	7	18	7	8	31	3	24	18	46	9	11	3	60	13	35
	Rate	123.9	137.8	126.6	98.4	185.0	168.6	137.6	79.6	177.6	194.5	107.6	129.2	163.4	173.4	166.3	162.9	149.7	173.4	218.4	203.5
Cryptosporidiosis	Cases	1	6	4	2	10	0	0	1	0	0	0	2	0	2	1	0	0	3	2	2
	Rate	24.8	9.1	8.9	5.9	37.9	13.6	8.1	12.9	27.5	25.1	6.3	10.8	14.6	9.6	19.9	9.4	18.3	19.3	85.9	21.4
Dengue fever	Cases	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1
	Rate	1.3	1.3	1.6	1.2	1.9	1.9	1.4	2.2	0.9	0.0	1.6	0.0	0.0	1.7	0.0	0.0	0.0	0.6	1.8	1.6
Gastroenteritis	Cases	0	5	5	8	1	2	1	0	0	0	2	36	1	5	2	1	0	6	0	1
	Rate	1.3	10.6	14.7	8.2	4.7	9.7	4.3	0.0	12.8	0.6	26.9	46.0	36.2	30.6	14.9	6.5	39.7	21.8	7.2	3.0
Giardiasis	Cases	8	14	24	17	20	4	9	1	1	5	0	5	6	17	2	7	2	15	4	6
	Rate	30.5	41.0	68.4	44.0	47.5	38.0	45.7	28.0	20.1	61.2	7.9	18.5	45.9	64.2	22.3	34.0	24.4	50.6	51.9	41.2
<i>Haemophilus influenzae</i> type b	Cases	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.9	1.3	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	0.0	0.2	0.9	1.4	0.8	0.0	0.0	4.3	0.0	1.9	1.6	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.7
Hepatitis B	Cases	2	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	2.5	0.6	2.4	1.8	0.8	3.9	1.4	12.9	0.0	1.9	1.6	0.6	1.4	0.0	0.0	0.0	0.0	1.6	1.8	1.3
Hepatitis C	Cases	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	2
	Rate	0.0	0.6	0.2	0.4	0.0	0.0	0.0	0.0	0.0	1.9	0.0	1.2	0.7	1.4	0.0	0.0	0.0	0.8	1.8	1.0
Invasive pneumococcal disease	Cases	1	3	4	4	2	5	1	2	3	0	1	2	2	0	0	2	0	4	1	2
	Rate	11.4	10.4	9.1	17.7	12.1	19.5	12.9	6.5	11.0	16.7	14.2	7.2	15.3	5.8	9.9	5.8	3.1	10.0	7.2	15.8
Lead absorption	Cases	0	0	7	4	1	0	0	0	1	2	0	2	2	1	0	0	0	0	0	0
	Rate	2.5	7.1	10.4	6.3	3.3	0.0	2.4	0.0	6.4	7.7	11.1	4.8	13.9	3.4	5.0	3.6	6.1	3.7	9.0	7.3
Legionellosis	Cases	5	1	3	5	1	0	1	0	0	0	0	0	0	0	0	2	0	0	0	1
	Rate	7.6	4.7	3.3	3.9	1.9	1.0	4.3	0.0	0.9	1.3	1.6	0.6	2.1	1.4	2.5	3.6	6.1	14.4	0.0	7.9
Leptospirosis	Cases	0	0	0	1	1	0	0	0	0	1	1	1	1	0	0	0	0	2	0	2
	Rate	3.8	0.2	0.2	0.8	1.4	0.0	1.9	6.5	0.9	8.4	19.0	4.2	0.0	0.0	5.0	1.4	12.2	0.8	1.8	1.6
Listeriosis	Cases	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	0.6	0.6	0.7	0.2	0.3	1.0	1.0	0.0	0.9	0.0	1.6	0.0	2.1	0.3	0.0	0.0	3.1	0.2	0.0	0.0
Malaria	Cases	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0
	Rate	0.0	0.9	2.7	1.6	0.0	0.0	1.9	0.0	0.9	0.0	0.0	0.0	0.0	0.3	0.0	3.6	0.0	0.6	1.8	0.7
Measles	Cases	1	1	1	0	0	0	0	0	0	2	0	0	0	0	0	1	0	1	0	0
	Rate	0.6	2.4	2.9	2.4	0.0	0.0	0.0	2.2	0.0	10.3	0.0	0.0	0.7	0.3	2.5	0.7	3.1	1.4	0.0	0.0
Meningococcal disease	Cases	0	0	0	2	1	0	1	0	0	0	0	0	1	1	0	0	0	1	0	2
	Rate	3.2	1.5	1.1	2.6	2.2	5.8	2.4	2.2	0.0	3.2	3.2	2.4	4.9	2.1	2.5	0.7	3.1	1.2	1.8	2.6
Mumps	Cases	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1
	Rate	1.3	1.1	1.3	0.8	0.5	0.0	1.0	0.0	1.8	0.6	0.0	0.6	2.1	0.3	5.0	1.4	0.0	1.2	0.0	0.7
Paratyphoid fever	Cases	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	2.0	0.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.0	0.0	0.0	3.1	0.0	0.0	0.0
Pertussis	Cases	0	2	6	6	2	1	0	3	2	5	7	1	4	3	0	5	6	11	0	4
	Rate	2.5	10.6	22.2	12.4	16.7	6.8	16.7	23.7	22.9	17.4	11.1	15.5	21.6	27.8	9.9	26.8	55.0	21.3	3.6	18.5
Rheumatic fever	Cases	0	0	0	6	3	1	1	0	0	1	0	1	0	0	0	0	0	1	0	0
	Rate	8.9	1.7	1.1	12.8	4.4	4.9	3.3	15.1	1.8	5.2	4.7	2.4	7.0	3.1	5.0	0.0	0.0	0.8	0.0	0.0
Rickettsial disease	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.7	0.2	0.2	1.6	0.0	0.0	0.0	0.9	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	1	0
	Rate	0.6	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	1.8	0.3
Salmonellosis	Cases	2	8	11	3	4	0	4	3	2	1	0	2	2	5	3	6	0	21	1	12
	Rate	23.5	21.6	26.9	14.7	26.1	22.4	19.0	32.3	21.1	25.8	19.0	17.3	22.9	21.6	39.7	35.5	30.6	34.4	57.3	72.9
Shigellosis	Cases	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	3.2	5.0	3.3	4.1	2.7	0.0	2.4	0.0	0.0	1.9	0.0	0.0	0.0	1.7	0.0	1.4	0.0	1.2	1.8	1.0
Tuberculosis disease	Cases	0	3	10	6	3	0	0	1	0	0	0	4	1	3	0	1	0	2	1	0
	Rate	4.4	5.6	17.1	11.4	7.7	1.0	5.2	4.3	1.8	12.2	3.2	6.0	11.1	12.4	2.5	2.9	3.1	4.1	1.8	2.6
Typhoid fever	Cases	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.9	1.3	2.4	0.0	1.0	1.4	0.0	0.0	0.6	0.0	0.6	0.0	0.7	0.0	0.0	0.0	0.2	0.0	0.0
VTEC/STEC infection	Cases	2	4	1	1	2	0	0	1	0	1	0	0	0	1	0	1	0	5	1	1
	Rate	5.7	3.5	2.2	3.7	9.3	10.7	4.3	19.4	5.5	5.2	1.6	1.8	2.8	1.7	7.4	0.7	6.1	4.3	5.4	1.6
Yersiniosis	Cases	1	5	3	3	3	0	1	0	0	0	0	0	1	3	0	0	2	2	0	0
	Rate	3.2	12.5	9.8	7.5	10.4	7.8	7.6	12.9	20.1	7.7	6.3	6.6	12.5	18.5	7.4	7.2	12.2	9.2	16.1	4.6

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including May 2011 expressed as cases per 100 000

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

Notifiable Disease Surveillance Data by District Health Board May 2011

		Cases ¹ and current rate ² for May 2011 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	Southern
Campylobacteriosis	Cases	25	43	36	40	45	7	18	7	8	31	3	24	18	46	9	11	3	60	13	35
	Rate	123.9	137.8	126.6	98.4	185.0	168.6	137.6	79.6	177.6	194.5	107.6	129.2	163.4	173.4	166.3	162.9	149.7	173.4	218.4	203.5
Cryptosporidiosis	Cases	1	6	4	2	10	0	0	1	0	0	0	2	0	2	1	0	0	3	2	2
	Rate	24.8	9.1	8.9	5.9	37.9	13.6	8.1	12.9	27.5	25.1	6.3	10.8	14.6	9.6	19.9	9.4	18.3	19.3	85.9	21.4
Dengue fever	Cases	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1
	Rate	1.3	1.3	1.6	1.2	1.9	1.9	1.4	2.2	0.9	0.0	1.6	0.0	0.0	1.7	0.0	0.0	0.0	0.6	1.8	1.6
Gastroenteritis	Cases	0	5	5	8	1	2	1	0	0	0	2	36	1	5	2	1	0	6	0	1
	Rate	1.3	10.6	14.7	8.2	4.7	9.7	4.3	0.0	12.8	0.6	26.9	46.0	36.2	30.6	14.9	6.5	39.7	21.8	7.2	3.0
Giardiasis	Cases	8	14	24	17	20	4	9	1	1	5	0	5	6	17	2	7	2	15	4	6
	Rate	30.5	41.0	68.4	44.0	47.5	38.0	45.7	28.0	20.1	61.2	7.9	18.5	45.9	64.2	22.3	34.0	24.4	50.6	51.9	41.2
<i>Haemophilus influenzae</i> type b	Cases	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.9	1.3	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	0.0	0.2	0.9	1.4	0.8	0.0	0.0	4.3	0.0	1.9	1.6	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.7
Hepatitis B	Cases	2	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	2.5	0.6	2.4	1.8	0.8	3.9	1.4	12.9	0.0	1.9	1.6	0.6	1.4	0.0	0.0	0.0	0.0	1.6	1.8	1.3
Hepatitis C	Cases	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	2
	Rate	0.0	0.6	0.2	0.4	0.0	0.0	0.0	0.0	0.0	1.9	0.0	1.2	0.7	1.4	0.0	0.0	0.0	0.8	1.8	1.0
Invasive pneumococcal disease	Cases	1	3	4	4	2	5	1	2	3	0	1	2	2	0	0	2	0	4	1	2
	Rate	11.4	10.4	9.1	17.7	12.1	19.5	12.9	6.5	11.0	16.7	14.2	7.2	15.3	5.8	9.9	5.8	3.1	10.0	7.2	15.8
Lead absorption	Cases	0	0	7	4	1	0	0	0	1	2	0	2	2	1	0	0	0	0	0	0
	Rate	2.5	7.1	10.4	6.3	3.3	0.0	2.4	0.0	6.4	7.7	11.1	4.8	13.9	3.4	5.0	3.6	6.1	3.7	9.0	7.3
Legionellosis	Cases	5	1	3	5	1	0	1	0	0	0	0	0	0	0	0	2	0	0	0	1
	Rate	7.6	4.7	3.3	3.9	1.9	1.0	4.3	0.0	0.9	1.3	1.6	0.6	2.1	1.4	2.5	3.6	6.1	14.4	0.0	7.9
Leptospirosis	Cases	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	0	0	2	0	2
	Rate	3.8	0.2	0.2	0.8	1.4	0.0	1.9	6.5	0.9	8.4	19.0	4.2	0.0	0.0	5.0	1.4	12.2	0.8	1.8	1.6
Listeriosis	Cases	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	0.6	0.6	0.7	0.2	0.3	1.0	1.0	0.0	0.9	0.0	1.6	0.0	2.1	0.3	0.0	0.0	3.1	0.2	0.0	0.0
Malaria	Cases	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0
	Rate	0.0	0.9	2.7	1.6	0.0	0.0	1.9	0.0	0.9	0.0	0.0	0.0	0.0	0.3	0.0	3.6	0.0	0.6	1.8	0.7
Measles	Cases	1	1	1	0	0	0	0	0	0	2	0	0	0	0	0	1	0	1	0	0
	Rate	0.6	2.4	2.9	2.4	0.0	0.0	0.0	2.2	0.0	10.3	0.0	0.0	0.7	0.3	2.5	0.7	3.1	1.4	0.0	0.0
Meningococcal disease	Cases	0	0	0	2	1	0	1	0	0	0	0	0	1	1	0	0	0	1	0	2
	Rate	3.2	1.5	1.1	2.6	2.2	5.8	2.4	2.2	0.0	3.2	3.2	2.4	4.9	2.1	2.5	0.7	3.1	1.2	1.8	2.6
Mumps	Cases	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1
	Rate	1.3	1.1	1.3	0.8	0.5	0.0	1.0	0.0	1.8	0.6	0.0	0.6	2.1	0.3	5.0	1.4	0.0	1.2	0.0	0.7
Paratyphoid fever	Cases	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	2.0	0.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.0	0.0	0.0	3.1	0.0	0.0	0.0
Pertussis	Cases	0	2	6	6	2	1	0	3	2	5	7	1	4	3	0	5	6	11	0	4
	Rate	2.5	10.6	22.2	12.4	16.7	6.8	16.7	23.7	22.9	17.4	11.1	15.5	21.6	27.8	9.9	26.8	55.0	21.3	3.6	18.5
Rheumatic fever	Cases	0	0	0	6	3	1	1	0	0	1	0	1	0	0	0	0	0	1	0	0
	Rate	8.9	1.7	1.1	12.8	4.4	4.9	3.3	15.1	1.8	5.2	4.7	2.4	7.0	3.1	5.0	0.0	0.0	0.8	0.0	0.0
Rickettsial disease	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.7	0.2	0.2	1.6	0.0	0.0	0.0	0.9	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	1	0
	Rate	0.6	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	1.8	0.3
Salmonellosis	Cases	2	8	11	3	4	0	4	3	2	1	0	2	2	5	3	6	0	21	1	12
	Rate	23.5	21.6	26.9	14.7	26.1	22.4	19.0	32.3	21.1	25.8	19.0	17.3	22.9	21.6	39.7	35.5	30.6	34.4	57.3	72.9
Shigellosis	Cases	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	3.2	5.0	3.3	4.1	2.7	0.0	2.4	0.0	0.0	1.9	0.0	0.0	0.0	1.7	0.0	1.4	0.0	1.2	1.8	1.0
Tuberculosis disease	Cases	0	3	10	6	3	0	0	1	0	0	0	4	1	3	0	1	0	2	1	0
	Rate	4.4	5.6	17.1	11.4	7.7	1.0	5.2	4.3	1.8	12.2	3.2	6.0	11.1	12.4	2.5	2.9	3.1	4.1	1.8	2.6
Typhoid fever	Cases	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.9	1.3	2.4	0.0	1.0	1.4	0.0	0.0	0.6	0.0	0.6	0.0	0.7	0.0	0.0	0.0	0.2	0.0	0.0
VTEC/STEC infection	Cases	2	4	1	1	2	0	0	1	0	1	0	0	0	1	0	1	0	5	1	1
	Rate	5.7	3.5	2.2	3.7	9.3	10.7	4.3	19.4	5.5	5.2	1.6	1.8	2.8	1.7	7.4	0.7	6.1	4.3	5.4	1.6
Yersiniosis	Cases	1	5	3	3	3	0	1	0	0	0	0	0	1	3	0	0	2	2	0	0
	Rate	3.2	12.5	9.8	7.5	10.4	7.8	7.6	12.9	20.1	7.7	6.3	6.6	12.5	18.5	7.4	7.2	12.2	9.2	16.1	4.6

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including May 2011 expressed as cases per 100 000

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

Notifiable Disease Surveillance Data for the 12 months ending May-2011 by District Health Board

Disease	Cases for the 12 months ending May 2011 ^{1 2} by District Health Board																				
	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	Southern
Campylobacteriosis	6642	195	740	570	483	674	173	289	37	194	302	68	216	235	505	67	225	49	881	122	617
Cryptosporidiosis	710	39	49	40	29	138	14	17	6	30	39	4	18	21	28	8	13	6	98	48	65
Dengue fever	51	2	7	7	6	7	2	3	1	1	0	1	0	0	5	0	0	0	3	1	5
Gastroenteritis	603	2	57	66	40	17	10	9	0	14	1	17	77	52	89	6	9	13	111	4	9
Giardiasis	1994	48	220	308	216	173	39	96	13	22	95	5	31	66	187	9	47	8	257	29	125
<i>Haemophilus influenzae</i> type b	6	0	1	1	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0
Hepatitis A	31	0	1	4	7	3	0	0	2	0	3	1	0	0	3	0	0	0	5	0	2
Hepatitis B	63	4	3	11	9	3	4	3	6	0	3	1	1	2	0	0	0	0	8	1	4
Hepatitis C	24	0	3	1	2	0	0	0	0	0	3	0	2	1	4	0	0	0	4	1	3
Invasive pneumococcal disease	510	18	56	41	87	44	20	27	3	12	26	9	12	22	17	4	8	1	51	4	48
Lead absorption	256	4	38	47	31	12	0	5	0	7	12	7	8	20	10	2	5	2	19	5	22
Legionellosis	205	12	25	15	19	7	1	9	0	1	2	1	1	3	4	1	5	2	73	0	24
Leptospirosis	75	6	1	1	4	5	0	4	3	1	13	12	7	0	0	2	2	4	4	1	5
Listeriosis	20	1	3	3	1	1	1	2	0	1	0	1	0	3	1	0	0	1	1	0	0
Malaria	42	0	5	12	8	0	0	4	0	1	0	0	0	0	1	0	5	0	3	1	2
Measles	68	1	13	13	12	0	0	0	1	0	16	0	0	1	1	1	1	1	7	0	0
Meningococcal disease	93	5	8	5	13	8	6	5	1	0	5	2	4	7	6	1	1	1	6	1	8
Mumps	42	2	6	6	4	2	0	2	0	2	1	0	1	3	1	2	2	0	6	0	2
Paratyphoid fever	19	0	0	9	0	1	4	0	0	0	0	0	1	0	3	0	0	1	0	0	0
Pertussis	758	4	57	100	61	61	7	35	11	25	27	7	26	31	81	4	37	18	108	2	56
Rheumatic fever	168	14	9	5	63	16	5	7	7	2	8	3	4	10	9	2	0	0	4	0	0
Rickettsial disease	13	0	4	1	1	6	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Rubella	9	1	0	2	1	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	1
Salmonellosis	1222	37	116	121	72	95	23	40	15	23	40	12	29	33	63	16	49	10	175	32	221
Shigellosis	102	5	27	15	20	10	0	5	0	0	3	0	0	0	5	0	2	0	6	1	3
Tuberculosis disease	333	7	30	77	56	28	1	11	2	2	19	2	10	16	36	1	4	1	21	1	8
Typhoid fever	33	1	5	6	12	0	1	3	0	0	1	0	1	0	2	0	0	0	1	0	0
VTEC/STEC infection	182	9	19	10	18	34	11	9	9	6	8	1	3	4	5	3	1	2	22	3	5
Yersiniosis	429	5	67	44	37	38	8	16	6	22	12	4	11	18	54	3	10	4	47	9	14
Total	14703	422	1570	1541	1313	1383	330	601	123	368	641	158	463	549	1122	132	426	124	1921	267	1249

¹ These data are provisional

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

National Notifiable Disease Surveillance Data May 2011

Disease	Current Year - 2011 ¹			Previous Year - 2010		
	May 2011 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	May 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	482	2374	152.1	450	3078	174.1
Cryptosporidiosis	36	140	16.3	57	384	23.4
Dengue fever	6	18	1.2	4	17	1.5
Gastroenteritis ³	76	302	13.8	34	190	15.2
Giardiasis	167	937	45.7	185	928	42.6
<i>Haemophilus influenzae</i> type b	2	3	0.1	0	5	0.2
Hepatitis A	1	11	0.7	6	26	1.3
Hepatitis B ⁴	6	29	1.4	2	17	1.3
Hepatitis C ⁴	5	12	0.5	1	5	0.5
Invasive pneumococcal disease	39	144	11.7	44	169	15.4
Lead absorption	20	124	5.9	29	100	7.1
Legionellosis	19	82	4.7	7	50	2.0
Leptospirosis	9	36	1.7	6	41	2.0
Listeriosis	3	13	0.5	3	16	0.8
Malaria	6	19	1.0	1	21	1.1
Measles	7	57	1.6	0	37	5.8
Meningococcal disease	9	32	2.1	6	36	3.1
Mumps	3	20	1.0	4	19	1.4
Paratyphoid fever	0	8	0.4	2	8	0.5
Pertussis	68	290	17.4	61	404	29.3
Rheumatic fever	14	62	3.8	16	62	3.3
Rickettsial disease	1	2	0.3	1	3	0.2
Rubella	1	6	0.2	0	1	0.0
Salmonellosis	90	572	28.0	76	496	23.6
Shigellosis	5	41	2.3	11	44	2.3
Tuberculosis disease	35	154	7.6	25	126	6.8
Typhoid fever	1	21	0.8	2	19	0.7
VTEC/STEC infection	21	108	4.2	11	64	2.9
Yersiniosis	24	186	9.8	31	163	8.6

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including May 2011) or the previous year (12 months up to and including May 2010), 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

Other notifiable infectious disease reported in May: Hepatitis NOS (2)