

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 5 October 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

- Gastroenteritis:** 71 cases of gastroenteritis were notified in September 2011, compared to 46 cases notified in the same month of the previous year. A causal agent was confirmed for 23 (32.4%) cases and the pathogens reported were rotavirus (20), norovirus (2 cases), and *Aeromonas spp.* (1 case). The highest number of cases was reported in Capital and Coast (16 cases) and Bay of Plenty (13 cases) DHBs. Cases ranged in age between less than 1 year and 70+ years, with the highest number of cases in the 1-4 years (22 cases) and 40-49 years (10 cases) age groups. Of the 71 cases reported, 18 were associated with 4 different outbreaks.
- Hepatitis C:** Six cases of hepatitis C were notified in September 2011 (four confirmed, two under investigation), compared to one in the same month of the previous year. Ethnicity was reported as European (3 cases), Māori (2 cases), and was unknown for the remaining case. Of the four confirmed cases, three reported a history of injecting drug use, risk factors were unknown or not reported for the remaining case. None of the four confirmed cases were overseas during the incubation period.
- Hydatid disease:** One laboratory confirmed case of hydatid disease was notified in September 2011. The case was a female of European ethnicity in the 70+ years age group, from Hawke's Bay DHB. The cysts were discovered incidentally and investigation of the case indicated that this is most likely a historical infection.
- Legionellosis:** 43 cases of legionellosis were notified in September 2011 (9 confirmed, 1 probable and 33 under investigation), compared to 13 cases notified in the same month of the previous year. It is likely that, following reference laboratory testing, many of the under investigation cases will not meet the case definition. The following section relates to the 10 confirmed and probable cases only. The highest number of cases was reported in Canterbury DHB (6 cases). Cases were distributed by age group as follows: 60-69 years (3), 70+ years (3), 30-39 years (2), 20-29 years (1), and 40-49 years (1). Five hospitalisations were reported. Among the cases where risk information was recorded, six reported exposure to environmental sources of infection, five cases reported exposure to compost/potting mix, and one reported staying at an overseas resort where there were other cases. The *Legionella* species was identified in six cases: *Legionella longbeachae* serogroup 1 or 2 (2 cases), *L. dumoffii* (2 cases), *L. pneumophila* serogroup 12 and *L. saintelensis* (1 case each).

- *Measles*: 90 cases of measles were notified in September 2011 (83 confirmed, 1 probable and 6 under investigation), compared to 40 cases notified in the previous month and two cases in the same month of the previous year. The remainder of this section relates to the 83 confirmed cases only. The cases were reported in Auckland (58), Waitemata (17), Counties Manukau (4) Northland, Waikato, Capital, and Coast and Canterbury (1 case each) DHBs. Cases age groups were distributed as follows: less than 1 year (6), 1-4 years (22), 5-9 years (4), 10-14 years and 15-19 years (5 cases each), 20-29 years (16), 30-39 years (20), 40-49 years (4), and 60-69 years (1). Twenty-three hospitalisations were reported in the 1-4 years (1), 10-14 years (1), 15-19 years (3), 20-29 years (8), and 30-39 years (10) age groups. Of the 56 cases for whom immunisation information was available, 30 (53.6%) had not been immunised, including 14 cases aged less than 15 months and not eligible. Of the 26 immunised cases, 18 had received one dose of vaccine (including nine cases aged less than 4 years and therefore only eligible for one dose of vaccine), four cases had received two doses of vaccine. Dose information was not recorded for four cases.
- *Meningococcal disease*: 19 cases of invasive meningococcal disease were notified during September 2011 (18 were laboratory confirmed), compared to 23 cases notified in the previous month and five during the same month last year (Figure 1). Cases were distributed by DHB as follows: Counties Manukau (4), Capital and Coast, Hutt Valley and Northland (3 cases each), Auckland (2), Waitemata, Waikato, West Coast and Canterbury (1 case each). The highest numbers of cases were in the 1-4 years (6), 15-19 years (5), and less than 1 year (4) age groups. The cases were of European (8), Pacific Peoples (6), and Māori (5) ethnicities. Of the 18 laboratory confirmed cases the strain type was determined for 16 cases: epidemic strain (6), C (6), and B other (i.e. non-epidemic strain) (4). There were two deaths reported.
- *Paralytic shellfish poisoning*: One suspect case of paralytic shellfish poisoning was notified from Bay of Plenty DHB in September 2011. The case had consumed seafood fritters made from tuatua harvested recreationally in the region.
- *Pertussis*: 225 cases of pertussis were notified in September 2011, compared to 118 cases notified in the previous month and 66 cases in September the previous year. There were 88 (39.1%) laboratory confirmed cases. The majority of the cases were reported in West Coast (59), Nelson Marlborough (45), Canterbury (28), Hawke's Bay (26), Capital and Coast (12), and Southern (11) DHBs. The highest numbers of cases were in the 5-9 years (54), 1-4 years (44), 40-49 years (22), and 30-39 years (21) age groups. The immunisation status was recorded for 158 (70.2%) of the cases, with 114 cases reported as having been immunised. Of those 114 cases, dose information was recorded for 23 (20.2%) cases: 17 cases received five doses, two cases each received three doses, two doses and one dose. Of the cases where the relevant information was recorded, 55.7% (93/167) attended school, pre-school or childcare, and 47.3% (52/110) had contact with a laboratory confirmed pertussis case.
- *Rickettsial disease*: Three cases of rickettsial disease were notified in September 2011. However, on further investigation, these cases were found not to meet the case definition.
- *Yersiniosis*: 49 yersiniosis cases were notified in September 2011, compared to 87 cases notified in the preceding month and 37 in September 2010 (Figure 2). The highest numbers of cases were reported in Waikato (11), Auckland (8), Waitemata (6), Counties Manukau (5), and Hutt Valley (4) DHBs. The cases were aged from 10 months to 80 years with the highest number of cases in the 1-4 years (13), 40-49 years (8), 50-59 years and 60-69 years (5 cases each) age groups. Two cases were hospitalised. Biotyping results were available for 39 (79.6%) of cases. The most commonly identified biotypes were: *Yersinia enterocolitica* Biotype 2 (14 cases), *Y. enterocolitica* Biotype 4 (14 cases) and *Y. enterocolitica* Biotype 1A (6 cases). Among the cases for which risk factor information was recorded, 37.5% (6/16) had contact with farm animals, 11.8% (2/17) had consumed untreated water during the incubation period, 12.5% (2/16) had contact with faecal matter, and 8.3% (1/12) had contact with a sick animal.

2. Outbreaks

Finalised outbreak reports: 18 outbreak reports were created and finalised in EpiSurv during September 2011 (Table 1).

Table 1: Summary of final outbreaks created in EpiSurv during September 2011

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Southern	1	5
<i>Campylobacter</i> ¹	Waikato, Capital and Coast	2	4
<i>Cryptosporidium</i>	Waikato	1	2
<i>Gastroenteritis</i> ¹	Auckland, Taranaki, MidCentral	3	19
<i>Giardia</i> ^{1,2}	Auckland, Waikato	4	6
Norovirus	Hawke's Bay, Canterbury, Southern	5	131
<i>Salmonella</i> ³	Auckland, Southern	2	4
Total		18	171

¹Includes outbreaks reported to PHSs prior to September 2011: *Campylobacter* (1) reported in July 2011, gastroenteritis (1), *Giardia* (1) and *Salmonella* (1) all reported in August 2011.

²One *Giardia* outbreak reported in Waikato DHB had an overseas exposure location (Australia).

³One *Salmonella* outbreak reported in Auckland DHB had an overseas exposure location (Fiji).

Four cases were hospitalised: *B. pertussis* (2), norovirus (1) and *Salmonella* (1). No deaths were reported.

Interim outbreak reports: 39 interim outbreaks were created in EpiSurv during September 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 September 2011

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	West Coast	1	-
<i>Campylobacter</i>	Waikato	2	4
<i>Cryptosporidium</i>	Auckland, Waikato	4	8
Gastroenteritis	Waitemata, Auckland, Waikato, Bay of Plenty, Hawke's Bay, Whanganui, MidCentral, Hutt Valley, Capital and Coast, Southern	27	113
<i>Giardia</i>	Waikato	1	-
Measles virus	Waikato	1	-
Norovirus	Waikato, Lakes	2	70
Rotavirus ¹	Northland	1	-
Total		39	195

¹Includes one outbreak reported to PHSs prior to September 2011: rotavirus (1) reported to PHS in August 2011.

No hospitalisations or deaths were reported.

3. Deaths from notifiable diseases

Three deaths were reported in September 2011, two from meningococcal disease, and one from invasive pneumococcal disease (Table 3).

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

Disease	District Health Board	Age group (years)
Invasive pneumococcal disease	Canterbury	60 to 69
Meningococcal disease	Hutt Valley	15 to 19
Meningococcal disease	Northland	70 +

4. Trends in selected diseases to September 2011

Figure 1: Meningococcal notifications by month, January 2006 – September 2011

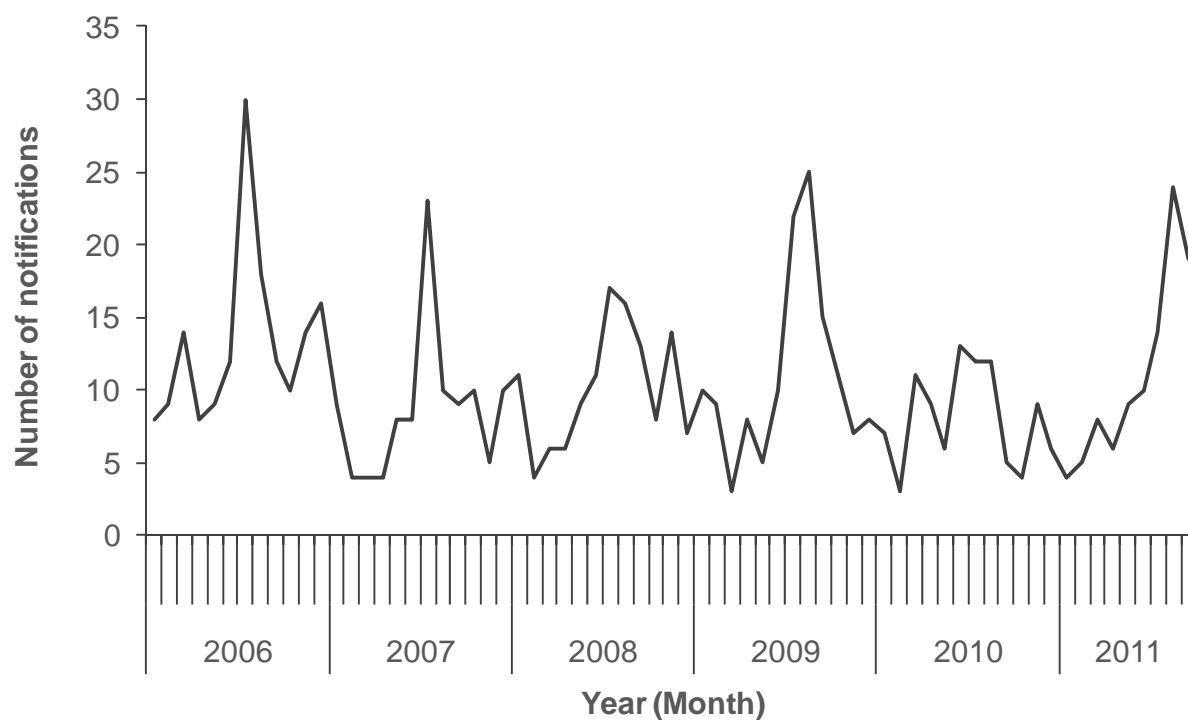
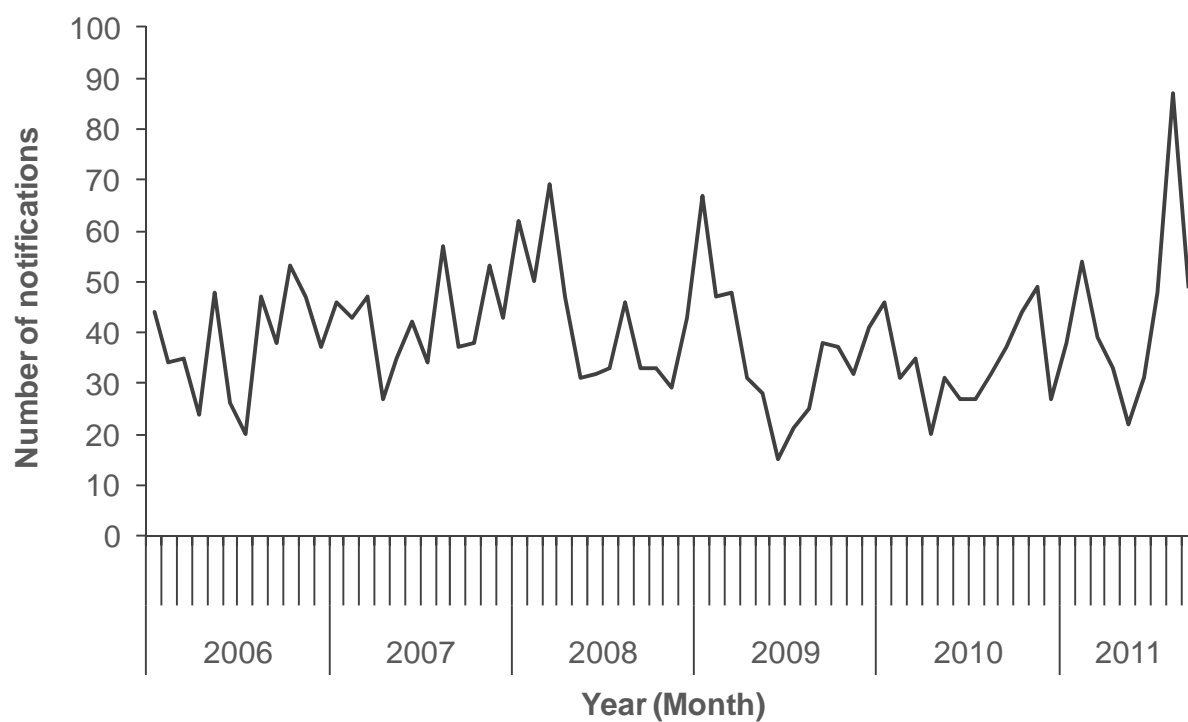


Figure 2: Yersiniosis notifications by month, January 2006 – September 2011



5. Data tables

National Notifiable Disease Surveillance Data September 2011

Disease	Current Year - 2011 ¹			Previous Year - 2010		
	September 2011 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	September 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	561	4423	148.8	667	5269	177.6
Cryptosporidiosis	136	376	14.7	179	689	23.2
Dengue fever	4	33	1.1	9	37	1.1
Gastroenteritis ³	71	475	14.3	46	340	11.6
Giardiasis	146	1541	44.9	177	1566	44.5
Haemophilus influenzae type b	0	8	0.2	0	6	0.3
Hazardous substances injury	0	7	0.2	0	8	0.4
Hepatitis A	3	20	0.6	7	41	1.3
Hepatitis B ⁴	9	53	1.5	5	38	1.1
Hepatitis C ⁴	6	23	0.7	1	10	0.4
Invasive pneumococcal disease	71	430	12.1	61	438	13.7
Lead absorption	23	184	5.6	18	170	5.6
Legionellosis	43	160	5.4	13	98	2.7
Leptospirosis	6	63	1.9	6	62	2.1
Listeriosis	0	18	0.5	1	21	0.6
Malaria	7	41	1.1	3	39	1.1
Measles	90	298	6.9	2	45	1.4
Meningococcal disease	19	97	2.7	5	78	2.4
Mumps	5	52	1.4	1	32	1.1
Paratyphoid fever	1	10	0.3	3	18	0.5
Pertussis	225	783	22.3	66	679	24.8
Rheumatic fever	16	128	3.8	14	128	3.3
Rickettsial disease	3	8	0.2	1	13	0.3
Rubella	2	21	0.5	0	2	0.0
Salmonellosis	76	844	26.1	117	850	25.1
Shigellosis	9	74	1.9	7	97	2.7
Tuberculosis disease	28	249	7.4	27	228	6.7
Typhoid fever	1	33	0.9	0	26	0.7
VTEC/STEC infection	7	135	3.6	11	116	3.3
Yersiniosis	49	399	11.9	37	286	9.1

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including September 2011) or the previous year (12 months up to and including September 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 September: Hydatid disease (1) , Paralytic shellfish poisoning (1)

Notifiable Disease Surveillance Data by District Health Board September 2011

		Cases ¹ and current rate ² for September 2011 by District Health Board ³																			
		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Southern
Disease																					
Campylobacteriosis	Cases	21	56	49	39	81	17	24	7	23	30	8	13	17	37	6	8	3	65	9	48
	Rate	122.7	129.6	117.7	93.3	174.8	149.1	135.7	94.6	155.6	199.0	96.5	139.3	171.1	183.6	168.8	148.4	143.6	175.9	211.2	203.8
Cryptosporidiosis	Cases	6	5	2	13	45	3	7	1	7	3	3	9	0	1	1	1	0	8	8	13
	Rate	19.1	6.5	6.2	7.9	39.2	15.6	9.5	6.5	25.6	18.7	12.7	13.8	13.2	9.6	19.9	8.0	12.2	14.8	53.7	21.1
Dengue fever	Cases	0	0	2	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
	Rate	0.6	1.1	2.0	1.2	1.4	1.9	0.5	0.0	0.9	0.0	0.0	1.2	0.0	2.4	0.0	0.0	0.0	0.4	1.8	1.0
Gastroenteritis	Cases	1	4	4	4	1	2	13	0	2	0	0	8	3	16	0	0	0	6	0	7
	Rate	1.9	12.7	13.5	9.0	4.1	10.7	11.4	6.5	11.9	0.6	25.3	49.6	25.7	30.9	9.9	5.1	18.3	22.8	7.2	6.6
Giardiasis	Cases	2	19	16	23	13	2	17	3	2	3	1	0	2	14	0	4	1	14	7	3
	Rate	36.9	38.9	61.5	41.8	51.0	49.7	54.7	21.5	22.0	52.8	7.9	16.7	51.5	70.0	14.9	36.2	42.8	37.8	68.0	43.5
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
	Rate	0.6	0.2	0.2	0.0	0.0	0.0	1.0	0.0	1.8	1.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	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
	Rate	0.0	0.2	0.2	0.0	0.0	0.0	1.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis A	Cases	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.6	1.1	1.2	0.5	0.0	0.0	2.2	0.0	1.3	0.0	0.0	0.0	1.0	0.0	0.7	0.0	0.4	0.0	0.0
Hepatitis B	Cases	0	0	0	1	0	2	1	1	0	1	0	0	1	1	0	0	0	1	0	0
	Rate	1.3	0.9	2.2	1.4	0.5	5.8	1.9	19.4	0.0	1.3	0.0	0.6	2.8	0.3	0.0	0.7	0.0	1.6	1.8	1.0
Hepatitis C	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3
	Rate	0.0	0.4	0.4	0.4	0.3	0.0	0.0	0.0	0.0	1.3	0.0	1.2	0.7	0.3	0.0	0.0	0.0	1.4	3.6	2.6
Invasive pneumococcal	Cases	3	10	9	16	4	6	4	0	0	3	0	3	3	0	0	0	0	5	2	3
	Rate	12.1	9.9	10.9	16.7	11.8	26.3	13.8	8.6	10.1	17.4	14.2	10.8	11.8	3.8	12.4	9.4	0.0	12.8	16.1	11.9
Lead absorption	Cases	1	4	6	3	2	0	1	0	0	0	1	0	0	3	0	0	0	0	1	1
	Rate	1.3	6.9	11.1	6.9	3.6	0.0	1.9	4.3	6.4	6.4	9.5	4.8	10.4	4.1	5.0	5.1	6.1	2.8	12.5	4.6
Legionellosis	Cases	4	13	7	9	1	0	0	0	1	1	0	0	0	0	0	0	0	7	0	0
	Rate	8.9	8.2	5.1	5.1	1.9	1.0	3.3	0.0	1.8	1.9	1.6	0.0	0.7	1.0	2.5	6.5	6.1	14.4	1.8	5.9
Leptospirosis	Cases	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	2	0	0
	Rate	3.8	0.4	0.4	1.0	0.8	0.0	2.4	8.6	2.7	9.0	15.8	3.6	0.0	0.0	0.0	2.9	6.1	1.8	5.4	1.0
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.4	0.4	0.8	0.5	1.0	1.0	0.0	0.0	0.0	1.6	0.0	2.1	0.3	0.0	0.0	0.0	0.4	0.0	0.0
Malaria	Cases	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
	Rate	0.6	1.1	3.3	1.4	0.3	0.0	1.9	0.0	1.8	0.0	0.0	0.0	0.0	0.3	0.0	2.9	0.0	0.4	1.8	0.7
Measles	Cases	2	17	60	4	1	0	0	0	0	0	0	0	0	1	0	0	0	3	0	2
	Rate	1.9	23.1	18.0	4.3	7.7	0.0	0.0	0.0	0.0	16.1	0.0	0.0	0.7	1.0	2.5	0.0	6.1	2.0	0.0	0.7
Meningococcal disease	Cases	3	1	2	4	1	0	0	0	0	0	0	0	3	3	0	0	1	1	0	0
	Rate	5.7	1.3	2.0	3.5	3.6	5.8	1.0	0.0	0.9	3.2	4.7	1.8	4.2	2.4	2.5	1.4	6.1	2.2	1.8	3.6
Mumps	Cases	0	0	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0
	Rate	1.9	1.1	2.9	1.0	0.5	0.0	1.4	0.0	0.9	1.3	0.0	0.6	1.4	1.0	0.0	7.2	0.0	1.4	1.8	0.7
Paratyphoid fever	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	1.3	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Pertussis	Cases	0	3	4	8	9	3	1	2	6	26	0	1	4	12	0	45	59	28	3	11
	Rate	3.2	8.9	18.4	7.9	20.6	8.8	13.3	32.3	26.5	59.9	14.2	17.3	29.9	34.0	2.5	60.1	311.6	22.8	16.1	20.1
Rheumatic fever	Cases	4	1	1	3	1	1	1	1	0	1	0	0	0	2	0	0	0	0	0	0
	Rate	12.7	0.9	2.7	10.4	4.1	4.9	3.8	12.9	0.0	3.9	6.3	4.2	5.6	4.8	0.0	1.4	0.0	0.8	0.0	0.0
Rickettsial disease	Cases	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.6	0.2	0.4	0.5	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	Rate	1.9	0.6	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.3	0.0	0.7	0.0	0.8	1.8	0.7
Salmonellosis	Cases	3	6	2	5	7	9	1	1	0	3	0	7	0	7	0	2	0	9	2	12
	Rate	22.2	19.5	24.4	13.5	28.0	28.3	12.4	36.6	17.4	23.2	19.0	20.9	22.9	22.7	27.3	36.2	21.4	30.3	60.9	63.6
Shigellosis	Cases	0	0	1	4	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
	Rate	0.0	4.3	3.6	4.3	1.1	1.0	1.0	0.0	0.0	0.6	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.4	0.0	1.3
Tuberculosis disease	Cases	1	4	9	3	0	0	1	0	0	1	0	1	1	5	0	2	0	0	0	0
	Rate	3.8	6.1	17.8	10.8	6.0	1.0	5.7	4.3	0.9	10.3	0.0	7.2	9.0	14.1	0.0	5.1	3.1	3.1	3.6	2.3
Typhoid fever	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	2.4	1.6	1.8	0.0	1.0	1.4	0.0	0.0	0.6	0.0	1.2	0.0	0.3	0.0	0.0	0.0	0.2	0.0	0.0
VTEC/STEC infection	Cases	0	0	0	1	1	0	0	0	3	0	0	0	0	0	0	0	0	2	0	0
	Rate	5.1	1.9	2.2	3.5	8.0	6.8	2.9	15.1	6.4	3.9	0.0	1.2	2.8	1.7	2.5	2.2	6.1	4.7	5.4	2.0
Yersiniosis	Cases	1	6	8	5	11	1	3	0	2	0	0	0	4	2	1	1	1	3	0	0
	Rate	4.4	14.9	12.9	9.2	25.0	13.6	9.5	12.9	17.4	5.8	7.9	5.4	16.7	15.1	9.9	6.5	21.4	9.4	12.5	4.3

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including September 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 September 2011

		Cases ¹ and current rate ² for September 2011 by District Health Board ³																			
Disease		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawkes Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Southern
Campylobacteriosis	Cases	21	56	49	39	81	17	24	7	23	30	8	13	17	37	6	8	3	65	9	48
	Rate	122.7	129.6	117.7	93.3	174.8	149.1	135.7	94.6	155.6	199.0	96.5	139.3	171.1	183.6	168.8	148.4	143.6	175.9	211.2	203.8
Cryptosporidiosis	Cases	6	5	2	13	45	3	7	1	7	3	3	9	0	1	1	1	0	8	8	13
	Rate	19.1	6.5	6.2	7.9	39.2	15.6	9.5	6.5	25.6	18.7	12.7	13.8	13.2	9.6	19.9	8.0	12.2	14.8	53.7	21.1
Dengue fever	Cases	0	0	2	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
	Rate	0.6	1.1	2.0	1.2	1.4	1.9	0.5	0.0	0.9	0.0	0.0	1.2	0.0	2.4	0.0	0.0	0.0	0.4	1.8	1.0
Gastroenteritis	Cases	1	4	4	4	1	2	13	0	2	0	0	8	3	16	0	0	0	6	0	7
	Rate	1.9	12.7	13.5	9.0	4.1	10.7	11.4	6.5	11.9	0.6	25.3	49.6	25.7	30.9	9.9	5.1	18.3	22.8	7.2	6.6
Giardiasis	Cases	2	19	16	23	13	2	17	3	2	3	1	0	2	14	0	4	1	14	7	3
	Rate	36.9	38.9	61.5	41.8	51.0	49.7	54.7	21.5	22.0	52.8	7.9	16.7	51.5	70.0	14.9	36.2	42.8	37.8	68.0	43.5
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
	Rate	0.6	0.2	0.2	0.0	0.0	0.0	1.0	0.0	1.8	1.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	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
	Rate	0.0	0.2	0.2	0.0	0.0	0.0	1.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis A	Cases	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.6	1.1	1.2	0.5	0.0	0.0	2.2	0.0	1.3	0.0	0.0	0.0	1.0	0.0	0.7	0.0	0.4	0.0	0.0
Hepatitis B	Cases	0	0	0	1	0	2	1	1	0	1	0	0	1	1	0	0	0	1	0	0
	Rate	1.3	0.9	2.2	1.4	0.5	5.8	1.9	19.4	0.0	1.3	0.0	0.6	2.8	0.3	0.0	0.7	0.0	1.6	1.8	1.0
Hepatitis C	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3
	Rate	0.0	0.4	0.4	0.4	0.3	0.0	0.0	0.0	0.0	1.3	0.0	1.2	0.7	0.3	0.0	0.0	0.0	1.4	3.6	2.6
Invasive pneumococcal disease ⁴	Cases	3	10	9	16	4	6	4	0	0	3	0	3	3	0	0	0	0	5	2	3
	Rate	12.1	9.9	10.9	16.7	11.8	26.3	13.8	8.6	10.1	17.4	14.2	10.8	11.8	3.8	12.4	9.4	0.0	12.8	16.1	11.9
Lead absorption	Cases	1	4	6	3	2	0	1	0	0	0	1	0	0	3	0	0	0	0	1	1
	Rate	1.3	6.9	11.1	6.9	3.6	0.0	1.9	4.3	6.4	6.4	9.5	4.8	10.4	4.1	5.0	5.1	6.1	2.8	12.5	4.6
Legionellosis	Cases	4	13	7	9	1	0	0	0	1	1	0	0	0	0	0	0	0	7	0	0
	Rate	8.9	8.2	5.1	5.1	1.9	1.0	3.3	0.0	1.8	1.9	1.6	0.0	0.7	1.0	2.5	6.5	6.1	14.4	1.8	5.9
Leptospirosis	Cases	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	2	0	0
	Rate	3.8	0.4	0.4	1.0	0.8	0.0	2.4	8.6	2.7	9.0	15.8	3.6	0.0	0.0	0.0	2.9	6.1	1.8	5.4	1.0
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.4	0.4	0.8	0.5	1.0	1.0	0.0	0.0	0.0	1.6	0.0	2.1	0.3	0.0	0.0	0.0	0.4	0.0	0.0
Malaria	Cases	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
	Rate	0.6	1.1	3.3	1.4	0.3	0.0	1.9	0.0	1.8	0.0	0.0	0.0	0.0	0.3	0.0	2.9	0.0	0.4	1.8	0.7
Measles	Cases	2	17	60	4	1	0	0	0	0	0	0	0	0	1	0	0	0	3	0	2
	Rate	1.9	23.1	18.0	4.3	7.7	0.0	0.0	0.0	0.0	16.1	0.0	0.0	0.7	1.0	2.5	0.0	6.1	2.0	0.0	0.7
Meningococcal disease	Cases	3	1	2	4	1	0	0	0	0	0	0	0	3	3	0	0	1	1	0	0
	Rate	5.7	1.3	2.0	3.5	3.6	5.8	1.0	0.0	0.9	3.2	4.7	1.8	4.2	2.4	2.5	1.4	6.1	2.2	1.8	3.6
Mumps	Cases	0	0	2	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0
	Rate	1.9	1.1	2.9	1.0	0.5	0.0	1.4	0.0	0.9	1.3	0.0	0.6	1.4	1.0	0.0	7.2	0.0	1.4	1.8	0.7
Paratyphoid fever	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	1.3	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Pertussis	Cases	0	3	4	8	9	3	1	2	6	26	0	1	4	12	0	45	59	28	3	11
	Rate	3.2	8.9	18.4	7.9	20.6	8.8	13.3	32.3	26.5	59.9	14.2	17.3	29.9	34.0	2.5	60.1	311.6	22.8	16.1	20.1
Rheumatic fever	Cases	4	1	1	3	1	1	1	1	0	1	0	0	0	2	0	0	0	0	0	0
	Rate	12.7	0.9	2.7	10.4	4.1	4.9	3.8	12.9	0.0	3.9	6.3	4.2	5.6	4.8	0.0	1.4	0.0	0.8	0.0	0.0
Rickettsial disease	Cases	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.6	0.2	0.4	0.5	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	Rate	1.9	0.6	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.3	0.0	0.7	0.0	0.8	1.8	0.7
Salmonellosis	Cases	3	6	2	5	7	9	1	1	0	3	0	7	0	7	0	2	0	9	2	12
	Rate	22.2	19.5	24.4	13.5	28.0	28.3	12.4	36.6	17.4	23.2	19.0	20.9	22.9	22.7	27.3	36.2	21.4	30.3	60.9	63.6
Shigellosis	Cases	0	0	1	4	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
	Rate	0.0	4.3	3.6	4.3	1.1	1.0	1.0	0.0	0.0	0.6	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.4	0.0	1.3
Tuberculosis disease	Cases	1	4	9	3	0	0	1	0	0	1	0	1	1	5	0	2	0	0	0	0
	Rate	3.8	6.1	17.8	10.8	6.0	1.0	5.7	4.3	0.9	10.3	0.0	7.2	9.0	14.1	0.0	5.1	3.1	3.1	3.6	2.3
Typhoid fever	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	2.4	1.6	1.8	0.0	1.0	1.4	0.0	0.0	0.6	0.0	1.2	0.0	0.3	0.0	0.0	0.0	0.2	0.0	0.0
VTEC/STEC infection	Cases	0	0	0	1	1	0	0	0	3	0	0	0	0	0	0	0	0	2	0	0
	Rate	5.1	1.9	2.2	3.5	8.0	6.8	2.9	15.1	6.4	3.9	0.0	1.2	2.8	1.7	2.5	2.2	6.1	4.7	5.4	2.0
Yersiniosis	Cases	1	6	8	5	11	1	3	0	2	0	0	0	4	2	1	1	1	3	0	0
	Rate	4.4	14.9	12.9	9.2	25.0	13.6	9.5	12.9	17.4	5.8	7.9	5.4	16.7	15.1	9.9	6.5	21.4	9.4	12.5	4.3

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including September 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 September-2011 by District Health Board

Disease	Cases for the 12 months ending September 2011 ^{1 2} by District Health Board ³																				
	Total	Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawkes Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Southern
Campylobacteriosis	6500	193	696	530	458	637	153	285	44	170	309	61	233	246	535	68	205	47	894	118	618
Cryptosporidiosis	641	30	35	28	39	143	16	20	3	28	29	8	23	19	28	8	11	4	75	30	64
Dengue fever	46	1	6	9	6	5	2	1	0	1	0	0	2	0	7	0	0	0	2	1	3
Gastroenteritis	626	3	68	61	44	15	11	24	3	13	1	16	83	37	90	4	7	6	116	4	20
Giardiasis	1960	58	209	277	205	186	51	115	10	24	82	5	28	74	204	6	50	14	192	38	132
Haemophilus influenzae type b	10	1	1	1	0	0	0	2	0	2	2	0	0	0	1	0	0	0	0	0	0
Hepatitis A	25	0	3	5	6	2	0	0	1	0	2	0	0	0	3	0	1	0	2	0	0
Hepatitis B	66	2	5	10	7	2	6	4	9	0	2	0	1	4	1	0	1	0	8	1	3
Hepatitis C	30	0	2	2	2	1	0	0	0	0	2	0	2	1	1	0	0	0	7	2	8
Invasive pneumococcal disease	527	19	53	49	82	43	27	29	4	11	27	9	18	17	11	5	13	0	65	9	36
Lead absorption	246	2	37	50	34	13	0	4	2	7	10	6	8	15	12	2	7	2	14	7	14
Legionellosis	235	14	44	23	25	7	1	7	0	2	3	1	0	1	3	1	9	2	73	1	18
Leptospirosis	81	6	2	2	5	3	0	5	4	3	14	10	6	0	0	0	4	2	9	3	3
Listeriosis	20	0	2	2	4	2	1	2	0	0	0	1	0	3	1	0	0	0	2	0	0
Malaria	46	1	6	15	7	1	0	4	0	2	0	0	0	0	1	0	4	0	2	1	2
Measles	301	3	124	81	21	28	0	0	0	0	25	0	0	1	3	1	0	2	10	0	2
Meningococcal disease	116	9	7	9	17	13	6	2	0	1	5	3	3	6	7	1	2	2	11	1	11
Mumps	61	3	6	13	5	2	0	3	0	1	2	0	1	2	3	0	10	0	7	1	2
Paratyphoid fever	11	0	0	6	0	0	3	0	0	0	0	0	1	0	1	0	0	0	0	0	0
Pertussis	976	5	48	83	39	75	9	28	15	29	93	9	29	43	99	1	83	102	116	9	61
Rheumatic fever	167	20	5	12	51	15	5	8	6	0	6	4	7	8	14	0	2	0	4	0	0
Rickettsial disease	9	0	3	1	2	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Rubella	23	3	3	6	1	0	0	0	0	0	0	0	0	1	1	0	1	0	4	1	2
Salmonellosis	1140	35	105	110	66	102	29	26	17	19	36	12	35	33	66	11	50	7	154	34	193
Shigellosis	81	0	23	16	21	4	1	2	0	0	1	0	0	0	7	0	0	0	2	0	4
Tuberculosis disease	325	6	33	80	53	22	1	12	2	1	16	0	12	13	41	0	7	1	16	2	7
Typhoid fever	38	0	13	7	9	0	1	3	0	0	1	0	2	0	1	0	0	0	1	0	0
VTEC/STEC infection	157	8	10	10	17	29	7	6	7	7	6	0	2	4	5	1	3	2	24	3	6
Yersiniosis	519	7	80	58	45	91	14	20	6	19	9	5	9	24	44	4	9	7	48	7	13

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

National Notifiable Disease Surveillance Data September 2011

Disease	Current Year - 2011 ¹			Previous Year - 2010		
	September 2011 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	September 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	561	4423	148.8	667	5269	177.6
Cryptosporidiosis	136	376	14.7	179	689	23.2
Dengue fever	4	33	1.1	9	37	1.1
Gastroenteritis ³	71	475	14.3	46	340	11.6
Giardiasis	146	1541	44.9	177	1566	44.5
Haemophilus influenzae type b	0	8	0.2	0	6	0.3
Hazardous substances injury	0	7	0.2	0	8	0.4
Hepatitis A	3	20	0.6	7	41	1.3
Hepatitis B ⁴	9	53	1.5	5	38	1.1
Hepatitis C ⁴	6	23	0.7	1	10	0.4
Invasive pneumococcal disease	71	430	12.1	61	438	13.7
Lead absorption	23	184	5.6	18	170	5.6
Legionellosis	43	160	5.4	13	98	2.7
Leptospirosis	6	63	1.9	6	62	2.1
Listeriosis	0	18	0.5	1	21	0.6
Malaria	7	41	1.1	3	39	1.1
Measles	90	298	6.9	2	45	1.4
Meningococcal disease	19	97	2.7	5	78	2.4
Mumps	5	52	1.4	1	32	1.1
Paratyphoid fever	1	10	0.3	3	18	0.5
Pertussis	225	783	22.3	66	679	24.8
Rheumatic fever	16	128	3.8	14	128	3.3
Rickettsial disease	3	8	0.2	1	13	0.3
Rubella	2	21	0.5	0	2	0.0
Salmonellosis	76	844	26.1	117	850	25.1
Shigellosis	9	74	1.9	7	97	2.7
Tuberculosis disease	28	249	7.4	27	228	6.7
Typhoid fever	1	33	0.9	0	26	0.7
VTEC/STEC infection	7	135	3.6	11	116	3.3
Yersiniosis	49	399	11.9	37	286	9.1

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including September 2011) or the previous year (12 months up to and including September 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 September: Hydatid disease (1) , Paralytic shellfish poisoning (1)