

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 December 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

- *Cryptosporidiosis*: 87 cases of cryptosporidiosis were notified in November 2011, compared to 76 cases notified in the same month of the previous year. For the 12-month period ending 30 November 2011 the national rate was 14.4 per 100 000 population compared to 22.1 for the same 12-month period last year. Cases were distributed throughout New Zealand, with the highest number of cases reported in Southern DHB (19). The highest numbers of cases reported occurred in the 1-4 years (27) and 30-39 years (16) age groups. One hospitalisation was reported. Among the cases where risk factor information was recorded, 68.3% (28/41) had contact with farm animals, 48.7% (19/39) had consumed untreated water, and 39.1% (18/46) had attended school, preschool or childcare.
- *Hydatid disease*: One case of hydatid disease was notified in November 2011. This case has since been made “not a case” after further investigation.
- *Hepatitis A*: Five cases of hepatitis A were notified in November 2011 (3 confirmed, 1 probable, 1 under investigation), compared with one case notified in the same month of the previous year. Ethnicity was reported as Asian (2), Māori (1), European (1), and is unknown for the remaining case. Of the three confirmed cases, two reported overseas travel history during the incubation period. The remaining confirmed case reported household contact with a confirmed case in previous two months.
- *Leptospirosis*: 11 cases of leptospirosis (4 confirmed, 2 probable, and 5 under investigation) were notified in November 2011 compared to five cases in the same month of the previous year. The cases were from Canterbury (4), Northland (2), Hawke’s Bay (2), Capital and Coast, West Coast and Southern (1 each) DHBs. High risk occupations were recorded for seven cases: farmer (5), earthmoving labourer (1), and freezing worker (1). Of the four remaining cases, one reported exposure to pet pigs, one was overseas during the incubation period, and risk factor information was unknown for two cases. The *Leptospira* serovar was identified for five cases: *L. Pomona* (2), *L. Ballum*, *L. Hardjo*, and *L. Tarassovi* (1 each).

- *Measles*: 140 cases of measles were notified in November 2011 (120 confirmed, 10 probable, 10 under investigation), compared to 100 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 120 confirmed and 10 probable cases only. The highest number of cases was reported in Auckland DHB (52), followed by Waitemata (31), Southern (16) and Counties Manukau (12) DHBs. Cases were distributed by age group as follows: less than 15 months (18), 15 months-3 years (12), 4-9 years (17), 10-19 years (34), 20-29 years (21), 30-39 years (20) and 40+ years (8). There were 17 hospitalisations reported. Of the 90 cases where vaccination status was recorded, 64 cases were not vaccinated, including 17 cases aged less than 15 months and therefore not eligible for vaccination. Twenty-six cases had been vaccinated against measles with eight cases reporting having received two doses of vaccine, 17 cases having received one dose (including 6 cases aged less than 4 years so only eligible for one dose), and no dose information was available for the remaining case.
- *Pertussis*: 494 cases of pertussis were notified in November 2011, compared with 237 cases notified the previous month and 67 cases in the same month of the previous year. There were 108 (21.9%) cases laboratory-confirmed by isolation of *Bordetella pertussis* from the nasopharynx. A further 82 (16.6%) cases were laboratory-confirmed by PCR. The highest number of cases was reported in Nelson Marlborough DHB (111), followed by Canterbury (90), Hutt Valley (76) and Capital and Coast (73) DHBs. Cases occurred in all age groups, with the highest numbers in the 5-9 years (97), 1-4 years (75) and 10-14 years (68) age groups. The vaccination status was recorded for 335 (67.8%) of the cases. Of these, 85 were reported as not vaccinated (including six cases aged less than 6 weeks and therefore not eligible for vaccination), 17 received one dose of vaccine, six received two doses, 175 received three or more doses, and 52 reported as having been vaccinated but no dose information was available. Of the cases where relevant information was recorded, 55.5% (121/218) had contact with a laboratory-confirmed pertussis case and 60.3% (216/358) attended school, pre-school or childcare.
- *Rickettsial disease*: One laboratory-confirmed case of murine typhus was notified in November 2011. The case was a female in the 50-59 years age group from Waitemata DHB. Overseas travel to Canada during the incubation period was reported.
- *Shigellosis*: 11 cases of shigellosis were notified in November 2011 compared with eight cases notified in the previous month and one case in the same month of the previous year (Figure 1). Cases occurred in the following DHBs: Auckland (5), Waitemata, Counties Manukau, Bay of Plenty, Tairāwhiti, Whanganui and Canterbury (1 each). The serotype involved was identified for 10 cases: *Shigella sonnei* biotype g (3), *S. flexneri* 1, *S. flexneri* 2a, *S. flexneri* 3a, *S. flexneri* 4a, *S. flexneri* 6 biotype Boyd 88, *S. flexneri* x variant, and *S. sonnei* biotype a (1 each). Overseas travel during the incubation period was recorded for seven cases. Countries visited or lived in were India (4 cases), Fiji, Morocco and Vietnam (1 case each).
- *Yersiniosis*: 63 cases of yersiniosis were notified in November 2011, compared to 31 cases notified in the previous month and 49 cases in the same month of the previous year (Figure 2). Canterbury DHB had the highest numbers of cases recorded (11 cases), followed by Capital and Coast (9) and Auckland (8) DHBs. Cases occurred in all age groups, with the highest numbers reported in the 1-4 years (15) and 50-59 years (14) age groups. Two cases were hospitalised. The biotype involved was identified in 53 (84.1%) of the cases, and the dominant biotypes were *Yersinia enterocolitica* biotype 4 (18), *Y. enterocolitica* biotype 2 (17), and *Y. enterocolitica* biotype 1A (12). Among the cases for which risk factor information was recorded, 53.3% (8/15) consumed untreated water, 50.0% (9/18) had contact with farm animals, 35.3% (6/17) consumed food from a food premise, 22.2% (4/18) had contact with faecal material, and 21.1% (4/19) had contact with recreational water during the incubation period.

2. Outbreaks

Finalised outbreak reports: 20 outbreak reports were created and finalised in EpiSurv during November 2011 (Table 1).

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

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Waikato	1	7
<i>Cryptosporidium</i>	Auckland, Waikato	4	10
Gastroenteritis ¹	MidCentral, Wairarapa, Nelson Marlborough, Canterbury	7	100
<i>Giardia</i>	Waikato	2	5
Rotavirus	Waikato, Hutt Valley, Capital and Coast, Southern	5	70
<i>Salmonella</i>	Waikato	1	2
Total		20	194

¹ Includes one outbreak reported to PHS prior to November 2011: gastroenteritis reported in October 2011

Interim outbreak reports: 30 interim outbreaks were created in EpiSurv during November 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 November 2011

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i> ¹	Hutt Valley	1	6
<i>Campylobacter</i> ²	Waikato	2	2
Gastroenteritis	Waitemata, Auckland, Capital and Coast, Southern	14	69
Lead poisoning	Auckland	1	3
Measles virus	Lakes, MidCentral, Southern	3	27
Norovirus	Lakes	1	6
Rotavirus ²	Waikato, Hutt Valley, Capital and Coast, Southern	7	7
<i>Shigella</i> ³	Bay of Plenty	1	14
Total		30	134

¹ Includes one outbreak reported to PHS prior to November 2011: *B. pertussis* reported in October 2011.

² Includes interim outbreaks with no cases entered to date.

³ One *Shigella* outbreak reported in Bay of Plenty DHB had an overseas exposure location (North-West Europe).

3. Deaths from notifiable diseases

Five deaths where the primary cause of death was a notifiable disease were reported in November 2011. The deaths were from invasive pneumococcal disease (3), meningococcal disease and tuberculosis disease (1 each) (Table 3).

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

Disease	District Health Board	Age group (years)
Invasive pneumococcal disease	Capital and Coast	70+
Invasive pneumococcal disease	Capital and Coast	70+
Invasive pneumococcal disease	Hawke's Bay	40-49
Meningococcal disease	Waikato	<1
Tuberculosis disease – new case	Counties Manukau	70+

4. Trends in selected diseases to November 2011

Figure 1: Shigellosis notifications by month, January 2006 – November 2011

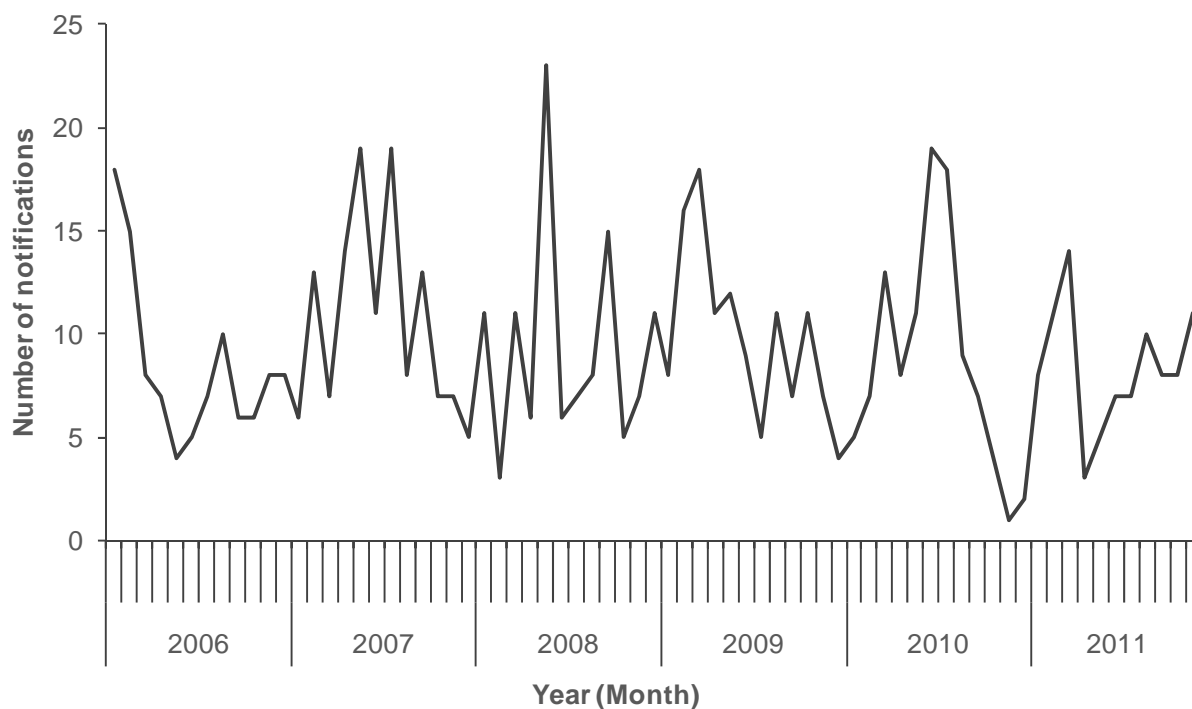
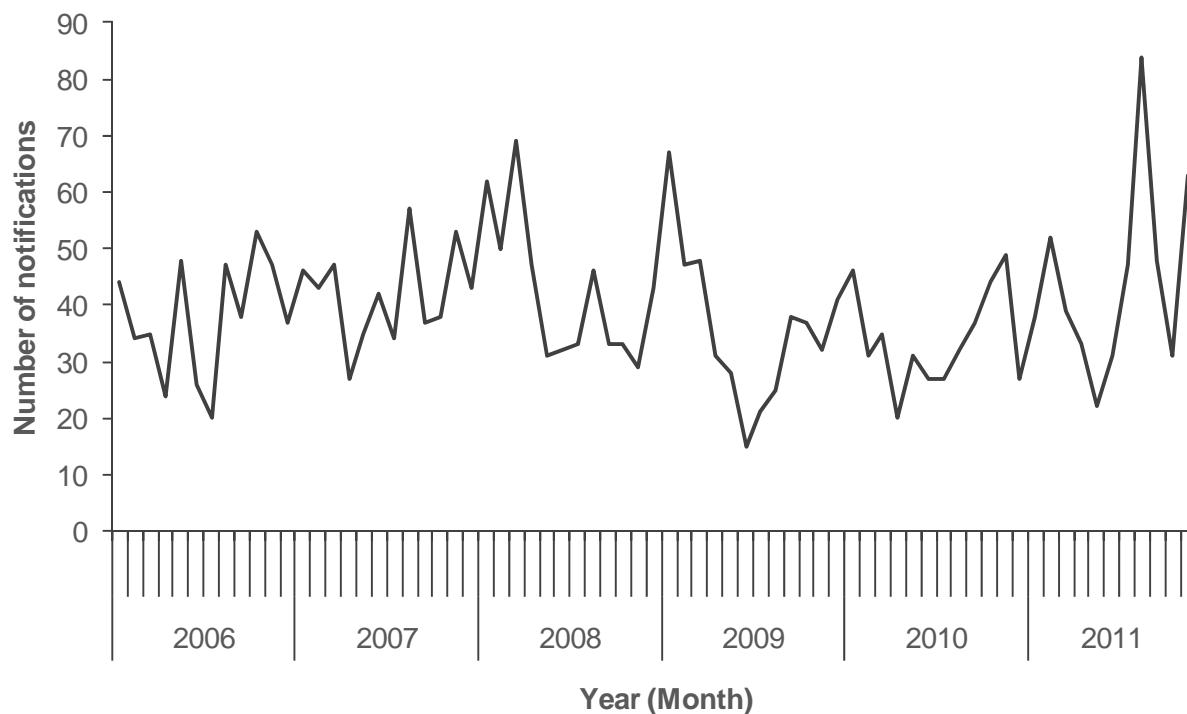


Figure 2: Yersiniosis notifications by month, January 2006 – November 2011



5. Data tables

National Notifiable Disease Surveillance Data November 2011

Disease	Current Year - 2011 ¹			Previous Year - 2010		
	November 2011 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	November 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	748	5719	146.4	753	6671	173.1
Cryptosporidiosis	87	590	14.4	76	916	22.1
Dengue fever	4	39	1.0	4	46	1.1
Gastroenteritis ³	50	576	14.1	51	451	11.3
Giardiasis	139	1808	44.3	153	1858	45.5
Haemophilus influenzae type b	1	10	0.3	0	7	0.2
Hepatitis A	5	25	0.6	1	43	1.0
Hepatitis B ⁴	7	61	1.5	4	46	1.1
Hepatitis C ⁴	0	24	0.6	4	15	0.4
Invasive pneumococcal disease	43	524	12.6	36	508	12.5
Lead absorption	12	205	5.2	26	209	5.2
Legionellosis	21	158	4.5	20	135	3.3
Leptospirosis	11	79	1.9	5	74	2.0
Listeriosis	1	22	0.5	1	23	0.5
Malaria	1	50	1.2	1	43	1.0
Measles	140	527	12.1	0	47	1.2
Meningococcal disease	6	114	2.7	9	91	2.3
Mumps	6	53	1.3	3	39	1.1
Paratyphoid fever	1	12	0.3	0	19	0.5
Pertussis	494	1500	36.0	67	798	21.5
Rheumatic fever	8	148	3.7	17	152	3.6
Rickettsial disease	1	6	0.1	0	14	0.3
Rubella	3	25	0.6	1	3	0.1
Salmonellosis	71	979	24.3	101	1062	26.3
Shigellosis	11	92	2.2	1	102	2.4
Tuberculosis disease	27	290	7.4	27	272	7.0
Typhoid fever	3	39	0.9	1	29	0.7
VTEC/STEC infection	9	152	3.6	8	134	3.2
Yersiniosis	63	488	11.8	49	379	9.6

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including November 2011) or the previous year (12 months up to and including November 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 November: Hepatitis NOS (1) , Hydatid disease (1)

Notifiable Disease Surveillance Data by District Health Board November 2011

		Cases ¹ and current rate ² for November 2011 by District Health Board ³																			
Disease		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāhiti	Taranaki	Hawke's Bay	Wairarapa	Midcentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Southern
Campylobacteriosis	Cases	20	92	64	69	79	15	35	7	23	37	6	25	21	53	16	22	10	83	15	56
	Rate	125.2	132.2	114.8	97.2	176.7	134.5	136.1	103.2	163.8	203.5	102.9	139.3	152.3	181.9	196.1	141.9	131.4	165.9	213.0	183.0
Cryptosporidiosis	Cases	4	5	5	1	8	4	3	0	1	4	1	4	2	4	5	2	1	7	7	19
	Rate	17.8	7.4	6.9	7.3	39.2	18.5	11.4	8.6	18.3	11.6	7.9	13.8	17.4	10.0	32.3	7.2	15.3	10.8	60.9	21.8
Dengue fever	Cases	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.9	2.2	1.4	0.5	2.9	0.5	0.0	0.0	0.0	0.0	1.8	0.0	2.4	0.0	0.0	0.0	0.4	1.8	0.7
Gastroenteritis	Cases	0	9	3	3	0	2	1	0	0	0	1	4	7	9	0	1	1	8	0	1
	Rate	1.9	11.7	12.2	8.6	2.7	11.7	10.9	6.5	9.2	0.6	25.3	53.8	27.8	31.9	9.9	3.6	18.3	23.6	7.2	5.3
Giardiasis	Cases	8	13	12	17	11	1	9	0	2	5	0	11	0	12	3	13	0	17	1	4
	Rate	42.6	36.7	56.9	40.1	50.5	47.8	56.6	19.4	18.3	48.9	14.2	23.3	48.0	73.5	19.9	46.3	42.8	35.8	64.4	41.5
Haemophilus influenzae type b	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	0.2	0.0	0.0	1.0	1.0	0.0	1.8	1.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	1.8	0.0
Hepatitis A	Cases	0	0	2	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0
	Rate	0.0	0.6	1.6	1.0	0.5	0.0	0.5	2.2	0.0	1.3	0.0	0.0	0.0	1.4	0.0	0.7	0.0	0.4	0.0	0.0
Hepatitis B	Cases	0	0	0	0	0	0	4	0	0	1	0	0	1	0	0	0	0	1	0	0
	Rate	1.3	1.1	2.2	1.0	0.5	4.9	3.8	17.2	0.0	1.3	0.0	0.6	2.1	0.3	0.0	0.7	0.0	1.6	1.8	1.0
Hepatitis C	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.2	0.0	0.0	0.0	0.0	0.0	1.2	3.6	2.6
Invasive pneumococcal disease	Cases	1	9	4	2	2	2	3	0	0	2	0	0	3	6	0	2	0	3	1	3
	Rate	11.4	10.8	11.8	16.1	12.1	28.3	14.8	8.6	11.0	17.4	9.5	12.0	12.5	5.1	14.9	13.0	0.0	13.4	16.1	11.9
Lead absorption	Cases	0	0	0	2	3	1	0	0	1	1	0	0	3	0	0	1	0	0	0	0
	Rate	0.6	6.1	10.4	7.3	3.8	1.9	1.9	4.3	6.4	5.8	7.9	3.6	7.0	4.1	0.0	5.1	9.2	2.2	14.3	3.6
Legionellosis	Cases	2	0	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	12	0	0
	Rate	6.4	5.0	4.0	2.6	1.4	0.0	2.4	0.0	1.8	1.9	1.6	0.6	0.0	1.0	2.5	6.5	6.1	15.0	1.8	6.3
Leptospirosis	Cases	2	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	1	4	0	1
	Rate	5.1	0.4	0.4	0.8	1.1	0.0	2.4	6.5	2.7	8.4	12.7	2.4	0.0	0.3	0.0	3.6	9.2	2.6	5.4	1.3
Listeriosis	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.6	0.7	0.8	0.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.4	0.3	0.0	0.0	3.1	0.4	0.0	0.3
Malaria	Cases	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	1.1	3.6	1.6	0.5	0.0	1.9	0.0	1.8	0.6	0.0	0.0	0.0	0.3	0.0	2.9	0.0	0.6	1.8	0.7
Measles	Cases	0	32	52	12	3	4	0	2	0	2	0	3	0	6	0	0	0	5	3	16
	Rate	2.5	31.5	42.9	8.2	7.4	3.9	3.3	4.3	1.8	17.4	0.0	1.8	0.7	4.1	0.0	0.0	0.0	3.0	7.2	5.9
Meningococcal disease	Cases	1	1	0	0	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	8.3	1.5	1.6	3.5	3.8	6.8	1.9	2.2	2.7	2.6	4.7	1.8	3.5	2.4	2.5	1.4	6.1	2.0	1.8	2.6
Mumps	Cases	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	2	0	1	0	0
	Rate	1.9	0.4	2.2	1.2	0.3	0.0	1.4	0.0	0.0	1.3	1.6	0.6	1.4	0.3	0.0	8.0	0.0	1.8	1.8	0.7
Paratyphoid fever	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	1.1	0.2	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	0.3
Pertussis	Cases	2	13	6	10	18	3	5	8	5	18	3	2	76	73	0	111	43	90	2	6
	Rate	5.1	10.4	15.1	9.4	23.9	10.7	16.7	53.8	27.5	74.1	20.6	18.5	90.4	64.9	0.0	167.3	592.7	45.7	23.3	19.8
Rheumatic fever	Cases	0	0	2	2	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	12.1	0.9	3.1	10.0	3.3	5.8	3.8	12.9	0.0	3.2	4.7	5.4	6.3	4.5	0.0	1.4	0.0	0.6	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	0.4	0.2	0.0	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	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	1.3	0.7	1.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.3	0.0	0.7	0.0	0.8	1.8	0.7
Salmonellosis	Cases	3	8	5	6	12	1	4	0	0	1	0	2	1	5	0	2	0	10	2	9
	Rate	24.1	18.4	22.2	13.7	28.8	26.3	15.2	32.3	14.6	19.3	17.4	18.5	22.3	23.7	27.3	31.9	15.3	28.3	66.2	49.5
Shigellosis	Cases	0	1	5	1	0	0	1	1	0	0	1	0	0	0	0	0	0	1	0	0
	Rate	0.6	4.5	4.7	4.5	1.1	1.9	1.4	2.2	0.9	0.6	1.6	0.0	0.0	2.1	0.0	0.0	0.0	0.6	0.0	1.3
Tuberculosis disease	Cases	0	5	5	7	1	0	0	1	0	1	0	2	1	1	0	1	0	2	0	0
	Rate	3.2	6.9	18.4	10.0	6.9	2.9	5.2	6.5	0.9	9.7	0.0	7.8	7.6	12.7	0.0	5.1	3.1	3.0	3.6	1.3
Typhoid fever	Cases	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	2.6	1.8	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	0.4	0.0	0.0
VTEC/STEC infection	Cases	0	2	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	2
	Rate	5.1	1.9	2.2	3.5	8.0	5.8	3.3	6.5	7.3	3.2	0.0	1.8	2.8	1.7	2.5	2.2	9.2	4.7	7.2	2.0
Yersiniosis	Cases	2	6	8	6	4	2	1	0	6	1	0	1	1	9	1	1	2	11	0	1
	Rate	5.7	13.8	14.4	10.2	22.8	15.6	9.0	6.5	13.7	5.2	6.3	4.8	18.1	17.2	7.4	5.1	21.4	10.2	7.2	4.0

¹ These data are provisional

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

		Cases ¹ and current rate ² for November 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	20	92	64	69	79	15	35	7	23	37	6	25	21	53	16	22	10	83	15	56
	Rate	125.2	132.2	114.8	97.2	176.7	134.5	136.1	103.2	163.8	203.5	102.9	139.3	152.3	181.9	196.1	141.9	131.4	165.9	213.0	183.0
Cryptosporidiosis	Cases	4	5	5	1	8	4	3	0	1	4	1	4	2	4	5	2	1	7	7	19
	Rate	17.8	7.4	6.9	7.3	39.2	18.5	11.4	8.6	18.3	11.6	7.9	13.8	17.4	10.0	32.3	7.2	15.3	10.8	60.9	21.8
Dengue fever	Cases	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.9	2.2	1.4	0.5	2.9	0.5	0.0	0.0	0.0	0.0	1.8	0.0	2.4	0.0	0.0	0.0	0.4	1.8	0.7
Gastroenteritis	Cases	0	9	3	3	0	2	1	0	0	0	1	4	7	9	0	1	1	8	0	1
	Rate	1.9	11.7	12.2	8.6	2.7	11.7	10.9	6.5	9.2	0.6	25.3	53.8	27.8	31.9	9.9	3.6	18.3	23.6	7.2	5.3
Giardiasis	Cases	8	13	12	17	11	1	9	0	2	5	0	11	0	12	3	13	0	17	1	4
	Rate	42.6	36.7	56.9	40.1	50.5	47.8	56.6	19.4	18.3	48.9	14.2	23.3	48.0	73.5	19.9	46.3	42.8	35.8	64.4	41.5
Haemophilus influenzae type b	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	0.2	0.0	0.0	1.0	1.0	0.0	1.8	1.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	1.8	0.0
Hepatitis A	Cases	0	0	2	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0
	Rate	0.0	0.6	1.6	1.0	0.5	0.0	0.5	2.2	0.0	1.3	0.0	0.0	0.0	1.4	0.0	0.7	0.0	0.4	0.0	0.0
Hepatitis B	Cases	0	0	0	0	0	0	4	0	0	1	0	0	1	0	0	0	0	1	0	0
	Rate	1.3	1.1	2.2	1.0	0.5	4.9	3.8	17.2	0.0	1.3	0.0	0.6	2.1	0.3	0.0	0.7	0.0	1.6	1.8	1.0
Hepatitis C	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.2	0.0	0.0	0.0	0.0	0.0	1.2	3.6	2.6
Invasive pneumococcal disease	Cases	1	9	4	2	2	2	3	0	0	2	0	0	3	6	0	2	0	3	1	3
	Rate	11.4	10.8	11.8	16.1	12.1	28.3	14.8	8.6	11.0	17.4	9.5	12.0	12.5	5.1	14.9	13.0	0.0	13.4	16.1	11.9
Lead absorption	Cases	0	0	0	2	3	1	0	0	1	1	0	0	3	0	0	1	0	0	0	0
	Rate	0.6	6.1	10.4	7.3	3.8	1.9	1.9	4.3	6.4	5.8	7.9	3.6	7.0	4.1	0.0	5.1	9.2	2.2	14.3	3.6
Legionellosis	Cases	2	0	4	1	0	0	0	0	0	1	0	0	0	0	0	1	0	12	0	0
	Rate	6.4	5.0	4.0	2.6	1.4	0.0	2.4	0.0	1.8	1.9	1.6	0.6	0.0	1.0	2.5	6.5	6.1	15.0	1.8	6.3
Leptospirosis	Cases	2	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	1	4	0	1
	Rate	5.1	0.4	0.4	0.8	1.1	0.0	2.4	6.5	2.7	8.4	12.7	2.4	0.0	0.3	0.0	3.6	9.2	2.6	5.4	1.3
Listeriosis	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.6	0.7	0.8	0.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.4	0.3	0.0	0.0	3.1	0.4	0.0	0.3
Malaria	Cases	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	1.1	3.6	1.6	0.5	0.0	1.9	0.0	1.8	0.6	0.0	0.0	0.0	0.3	0.0	2.9	0.0	0.6	1.8	0.7
Measles	Cases	0	32	52	12	3	4	0	2	0	2	0	3	0	6	0	0	0	5	3	16
	Rate	2.5	31.5	42.9	8.2	7.4	3.9	3.3	4.3	1.8	17.4	0.0	1.8	0.7	4.1	0.0	0.0	0.0	3.0	7.2	5.9
Meningococcal disease	Cases	1	1	0	0	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	8.3	1.5	1.6	3.5	3.8	6.8	1.9	2.2	2.7	2.6	4.7	1.8	3.5	2.4	2.5	1.4	6.1	2.0	1.8	2.6
Mumps	Cases	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	2	0	1	0	0
	Rate	1.9	0.4	2.2	1.2	0.3	0.0	1.4	0.0	0.0	1.3	1.6	0.6	1.4	0.3	0.0	8.0	0.0	1.8	1.8	0.7
Paratyphoid fever	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	1.1	0.2	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	0.3
Pertussis	Cases	2	13	6	10	18	3	5	8	5	18	3	2	76	73	0	111	43	90	2	6
	Rate	5.1	10.4	15.1	9.4	23.9	10.7	16.7	53.8	27.5	74.1	20.6	18.5	90.4	64.9	0.0	167.3	592.7	45.7	23.3	19.8
Rheumatic fever	Cases	0	0	2	2	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	12.1	0.9	3.1	10.0	3.3	5.8	3.8	12.9	0.0	3.2	4.7	5.4	6.3	4.5	0.0	1.4	0.0	0.6	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	0.4	0.2	0.0	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	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	1.3	0.7	1.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.3	0.0	0.7	0.0	0.8	1.8	0.7
Salmonellosis	Cases	3	8	5	6	12	1	4	0	0	1	0	2	1	5	0	2	0	10	2	9
	Rate	24.1	18.4	22.2	13.7	28.8	26.3	15.2	32.3	14.6	19.3	17.4	18.5	22.3	23.7	27.3	31.9	15.3	28.3	66.2	49.5
Shigellosis	Cases	0	1	5	1	0	0	1	1	0	0	1	0	0	0	0	0	0	1	0	0
	Rate	0.6	4.5	4.7	4.5	1.1	1.9	1.4	2.2	0.9	0.6	1.6	0.0	0.0	2.1	0.0	0.0	0.0	0.6	0.0	1.3
Tuberculosis disease	Cases	0	5	5	7	1	0	0	1	0	1	0	2	1	1	0	1	0	2	0	0
	Rate	3.2	6.9	18.4	10.0	6.9	2.9	5.2	6.5	0.9	9.7	0.0	7.8	7.6	12.7	0.0	5.1	3.1	3.0	3.6	1.3
Typhoid fever	Cases	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	2.6	1.8	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	0.4	0.0	0.0
VTEC/STEC infection	Cases	0	2	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	2
	Rate	5.1	1.9	2.2	3.5	8.0	5.8	3.3	6.5	7.3	3.2	0.0	1.8	2.8	1.7	2.5	2.2	9.2	4.7	7.2	2.0
Yersiniosis	Cases	2	6	8	6	4	2	1	0	6	1	0	1	1	9	1	1	2	11	0	1
	Rate	5.7	13.8	14.4	10.2	22.8	15.6	9.0	6.5	13.7	5.2	6.3	4.8	18.1	17.2	7.4	5.1	21.4	10.2	7.2	4.0

¹ These data are provisional

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

Disease	Cases for the 12 months ending November 2011 ^{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 Marborough	West Coast	Canterbury	South Canterbury	Southern
Campylobacteriosis	6394	197	710	517	477	644	138	286	48	179	316	65	233	219	530	79	196	43	843	119	555
Cryptosporidiosis	628	28	40	31	36	143	19	24	4	20	18	5	23	25	29	13	10	5	55	34	66
Dengue fever	43	0	5	10	7	2	3	1	0	0	0	0	3	0	7	0	0	0	2	1	2
Gastroenteritis	616	3	63	55	42	10	12	23	3	10	1	16	90	40	93	4	5	6	120	4	16
Giardiasis	1935	67	197	256	197	184	49	119	9	20	76	9	39	69	214	8	64	14	182	36	126
Haemophilus influenzae type b	11	1	0	1	0	0	1	2	0	2	2	0	0	0	1	0	0	0	0	1	0
Hepatitis A	28	0	3	7	5	2	0	1	1	0	2	0	0	0	4	0	1	0	2	0	0
Hepatitis B	66	2	6	10	5	2	5	8	8	0	2	0	1	3	1	0	1	0	8	1	3
Hepatitis C	26	0	3	2	1	0	0	0	0	0	2	0	2	0	0	0	0	0	6	2	8
Invasive pneumococcal disease	551	18	58	53	79	44	29	31	4	12	27	6	20	18	15	6	18	0	68	9	36
Lead absorption	228	1	33	47	36	14	2	4	2	7	9	5	6	10	12	0	7	3	11	8	11
Legionellosis	196	10	27	18	13	5	0	5	0	2	3	1	1	0	3	1	9	2	76	1	19
Leptospirosis	85	8	2	2	4	4	0	5	3	3	13	8	4	0	1	0	5	3	13	3	4
Listeriosis	22	0	3	3	4	2	1	2	0	0	0	0	0	2	1	0	0	1	2	0	1
Malaria	51	1	6	16	8	2	0	4	0	2	1	0	0	0	1	0	4	0	3	1	2
Measles	528	4	169	193	40	27	4	7	2	2	27	0	3	1	12	0	0	0	15	4	18
Meningococcal disease	120	13	8	7	17	14	7	4	1	3	4	3	3	5	7	1	2	2	10	1	8
Mumps	55	3	2	10	6	1	0	3	0	0	2	1	1	2	1	0	11	0	9	1	2
Paratyphoid fever	12	0	0	5	1	0	3	0	0	0	0	0	1	0	1	0	0	0	0	0	1
Pertussis	1574	8	56	68	46	87	11	35	25	30	115	13	31	130	189	0	231	194	232	13	60
Rheumatic fever	163	19	5	14	49	12	6	8	6	0	5	3	9	9	13	0	2	0	3	0	0
Rickettsial disease	6	0	2	1	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Rubella	26	2	4	8	1	0	0	0	0	0	0	0	1	1	1	0	1	0	4	1	2
Salmonellosis	1063	38	99	100	67	105	27	32	15	16	30	11	31	32	69	11	44	5	144	37	150
Shigellosis	94	1	24	21	22	4	2	3	1	1	1	1	0	0	6	0	0	0	3	0	4
Tuberculosis disease	322	5	37	83	49	25	3	11	3	1	15	0	13	11	37	0	7	1	15	2	4
Typhoid fever	41	0	14	8	9	0	1	3	0	0	1	0	2	0	1	0	0	0	2	0	0
VTEC/STEC infection	156	8	10	10	17	29	6	7	3	8	5	0	3	4	5	1	3	3	24	4	6
Yersiniosis	515	9	74	65	50	83	16	19	3	15	8	4	8	26	50	3	7	7	52	4	12

¹ These data are provisional

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

National Notifiable Disease Surveillance Data November 2011

Disease	Current Year - 2011 ¹			Previous Year - 2010		
	November 2011 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	November 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	748	5719	146.4	753	6671	173.1
Cryptosporidiosis	87	590	14.4	76	916	22.1
Dengue fever	4	39	1.0	4	46	1.1
Gastroenteritis ³	50	576	14.1	51	451	11.3
Giardiasis	139	1808	44.3	153	1858	45.5
Haemophilus influenzae type b	1	10	0.3	0	7	0.2
Hepatitis A	5	25	0.6	1	43	1.0
Hepatitis B ⁴	7	61	1.5	4	46	1.1
Hepatitis C ⁴	0	24	0.6	4	15	0.4
Invasive pneumococcal disease	43	524	12.6	36	508	12.5
Lead absorption	12	205	5.2	26	209	5.2
Legionellosis	21	158	4.5	20	135	3.3
Leptospirosis	11	79	1.9	5	74	2.0
Listeriosis	1	22	0.5	1	23	0.5
Malaria	1	50	1.2	1	43	1.0
Measles	140	527	12.1	0	47	1.2
Meningococcal disease	6	114	2.7	9	91	2.3
Mumps	6	53	1.3	3	39	1.1
Paratyphoid fever	1	12	0.3	0	19	0.5
Pertussis	494	1500	36.0	67	798	21.5
Rheumatic fever	8	148	3.7	17	152	3.6
Rickettsial disease	1	6	0.1	0	14	0.3
Rubella	3	25	0.6	1	3	0.1
Salmonellosis	71	979	24.3	101	1062	26.3
Shigellosis	11	92	2.2	1	102	2.4
Tuberculosis disease	27	290	7.4	27	272	7.0
Typhoid fever	3	39	0.9	1	29	0.7
VTEC/STEC infection	9	152	3.6	8	134	3.2
Yersiniosis	63	488	11.8	49	379	9.6

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including November 2011) or the previous year (12 months up to and including November 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 November: Hepatitis NOS (1) , Hydatid disease (1)