
MONTHLY NOTIFIABLE DISEASE SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by public health service staff up until 7 December 2009. As this information may be updated over time, the results should be regarded as provisional only.

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1. Key notifiable disease trends

- *Arboviral disease:* One case of Barmah Forest virus infection was notified. The case was a 40-49 male from Bay of Plenty DHB and had been in Australia during the incubation period. A 40-49 year old female from Waitemata DHB was notified with Chikungunya fever in November 2009. The case was laboratory-confirmed and had travelled overseas to Thailand during the incubation period. A 30-39 year old female from Waitemata DHB was notified with Ross River virus infection. The laboratory-confirmed case was in Fiji during the incubation period.
- *Campylobacteriosis:* 973 campylobacteriosis cases were notified in November 2009 compared to 786 cases notified in the same month of the previous year (Figure 1). There were 795 (81.7%) laboratory-confirmed cases. For the 12 month period ending 30 November 2009, the highest incidence rates were reported from Capital and Coast (250.3 per 100 000 population, 712 cases) and Hutt Valley (250.2 per 100 000 population, 355 cases) DHBs compared to a national rate of 169.0 per 100 000 population. One interim *campylobacter* outbreak from Waikato DHB was notified including three cases.
- *Cholera:* The cholera case reported in November 2009 was found to be infected with a non O1 non O139 serogroup strain of *Vibrio cholerae*. Only cholera due to O1 or O139 serogroup strains are notifiable and the case has since been de-notified.
- *Measles:* 15 cases of measles (2 confirmed, 1 probable, and 12 under investigation) were notified in November 2009 compared to five notifications in the preceding month and three in the same month of the previous year. There were two laboratory-confirmed cases. The highest number of cases was reported by Auckland, Counties Manukau, Lakes, Hawke's Bay and West Coast (2 cases each) DHBs. No cases were hospitalised. For more information on the measles situation in New Zealand, including the age, ethnicity, and vaccination status of cases, please refer to the Measles Report available from <http://www.surv.esr.cri.nz/surveillance/WeeklyMeaslesRpt.php>.

- *Meningococcal disease*: Based on the earliest date available¹, five cases (3 laboratory-confirmed) of meningococcal disease were notified during November 2009. In comparison, 11 cases were notified in the previous month, October 2009, and 15 cases were notified during the same month last year, November 2008. For the 12 month period ending 30 November 2009, Tairāwhiti DHB recorded the highest incidence rate (15.3 per 100 000 population, 7 cases), followed by MidCentral DHB (6.1 per 100 000 population, 10 cases) and Hawke's Bay DHB (5.2 per 100 000 population, 8 cases). The age-specific incidence rate was highest in the <1 years age group (45.3 per 100 000 population, 29 cases), followed by those in the 1-4 years age group (14.0 per 100 000 population, 33 cases).
- *Non-seasonal influenza*: In New Zealand, non seasonal influenza became notifiable on 29 April 2009. Eight cases of non-seasonal influenza A (H1N1) were notified in November 2009 (seven confirmed cases) compared with 22 cases in the preceding month. One case was hospitalised. The highest number of cases was reported by Bay of Plenty and Capital and Coast (2 cases each) DHBs. For the latest information on the non seasonal influenza A (H1N1) situation in New Zealand see <http://www.moh.govt.nz/influenza-a-h1n1>.
- *Pertussis*: 144 cases of pertussis were notified in November 2009, compared to 119 notifications in the preceding month and 55 notifications in the same month of the previous year (Figure 2). There were 44 (30.6%) laboratory-confirmed cases. The highest numbers of cases were reported by Waikato DHB (34), followed by Waitemata (18) and Canterbury (17) DHBs. For the 12 month period ending 30 November 2009, the highest incidence rates were reported from West Coast (89.6 per 100 000 population, 29 cases) and Nelson Marlborough (67.1 per 100 000 population, 91 cases) DHBs compared to a national rate of 31.0 per 100 000 population. The current 12-month rate by age group was highest among infants aged less than one year (177.9 per 100 000 population, 114 cases), followed by children in the 1-4 years age group (58.5 per 100 000 population, 138 cases). Further analysis of pertussis notifications is available in the Pertussis Report which is updated fortnightly and available from <http://www.surv.esr.cri.nz/surveillance/PertussisRpt.php>.
- *Taeniasis*: One laboratory-confirmed case of taeniasis was notified in November 2009. The case was male in the 30-39 years age group from South Canterbury DHB. The case is from Romania and is considered to have acquired the infection there. Laboratory tests confirmed *taenia saginata* as the tapeworm.
- *VTEC/STEC infection*: 12 cases of VTEC/STEC infection were notified in November 2009, compared to 17 in the preceding month and seven notifications in the same month of the previous year. The highest numbers of cases were reported from Counties Manukau (3), Waitemata, Auckland and Taranaki (2 cases each) DHBs. The cases were aged between less than 1 year and 50-59 years, with the highest number of cases in the 30-39 years age group (3). *Escherichia coli* O157:H7 was isolated for four cases, with one case each of *E. coli* O103:H2 and *E. coli* O26:H11. Risk factors recorded include: 100.0% had contact with animals (3/3), 66.7% (2/3) had attended school, 33.3% (1/3) had contact with another person with similar symptoms, 33.3% (1/3) had contact with children in nappies, 33.3% (1/3) had recreational contact with water, and 33.3% (1/3) had contact with manure.

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 November 2009 (Table 1).

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

| Organism/Toxin/Illness | Health District(s) where exposure occurred | Number of outbreaks | Total number of cases |
|------------------------|---|---------------------|-----------------------|
| <i>Cryptosporidium</i> | Auckland | 1 | 3 |
| Gastroenteritis | Auckland, Wellington, South Canterbury | 3 | 41 |
| Norovirus | Auckland, Manawatu, Canterbury, South Canterbury, Otago | 15 | 376 |
| Sapovirus | Canterbury | 1 | 29 |
| Total | | 20 | 449 |

Interim outbreak reports: 46 interim outbreaks have been reported in November 2009. The status of the outbreak and cases involved are subject to change, as more data becomes available.

Table 2: Summary of interim outbreaks reported to ESR during November 2009

| Organism/Toxin/Illness | Health District(s) where exposure occurred | Number of outbreaks | Total number of cases |
|-----------------------------|--|---------------------|-----------------------|
| <i>Bordetella pertussis</i> | Wellington | 2 | 2 |
| <i>Campylobacter</i> | Waikato | 1 | 3 |
| <i>Cryptosporidium</i> | West Coast | 1 | 2 |
| Gastroenteritis | Northland, Auckland, Waikato, Tauranga, Manawatu, Wellington, Otago, Southland | 30 | 246 |
| <i>Giardia</i> | Auckland, Waikato | 2 | 2 |
| Influenza | Tauranga | 1 | 11 |
| Norovirus | Auckland, Waikato, Rotorua, West Coast, Otago | 8 | 137 |
| Rotavirus | Auckland | 1 | 8 |
| Total | | 46 | 411 |

3. Deaths from notifiable diseases

Five deaths were reported for the month of November from invasive pneumococcal disease, and one legionellosis (Table 3).

Table 3: Summary of deaths from notifiable diseases reported to ESR during November 2009

| Disease | District Health Board | Age group |
|-------------------------------|-----------------------|-----------|
| Invasive pneumococcal disease | Waitemata | 70+ |
| Invasive pneumococcal disease | Lakes | 70+ |
| Invasive pneumococcal disease | Lakes | 70+ |
| Invasive pneumococcal disease | Bay of Plenty | 70+ |
| Legionellosis | Canterbury | 60-69 |

4. Trends in selected diseases to November 2009

Figure 1: Campylobacteriosis notifications by month by year, January 2004 – November 2009

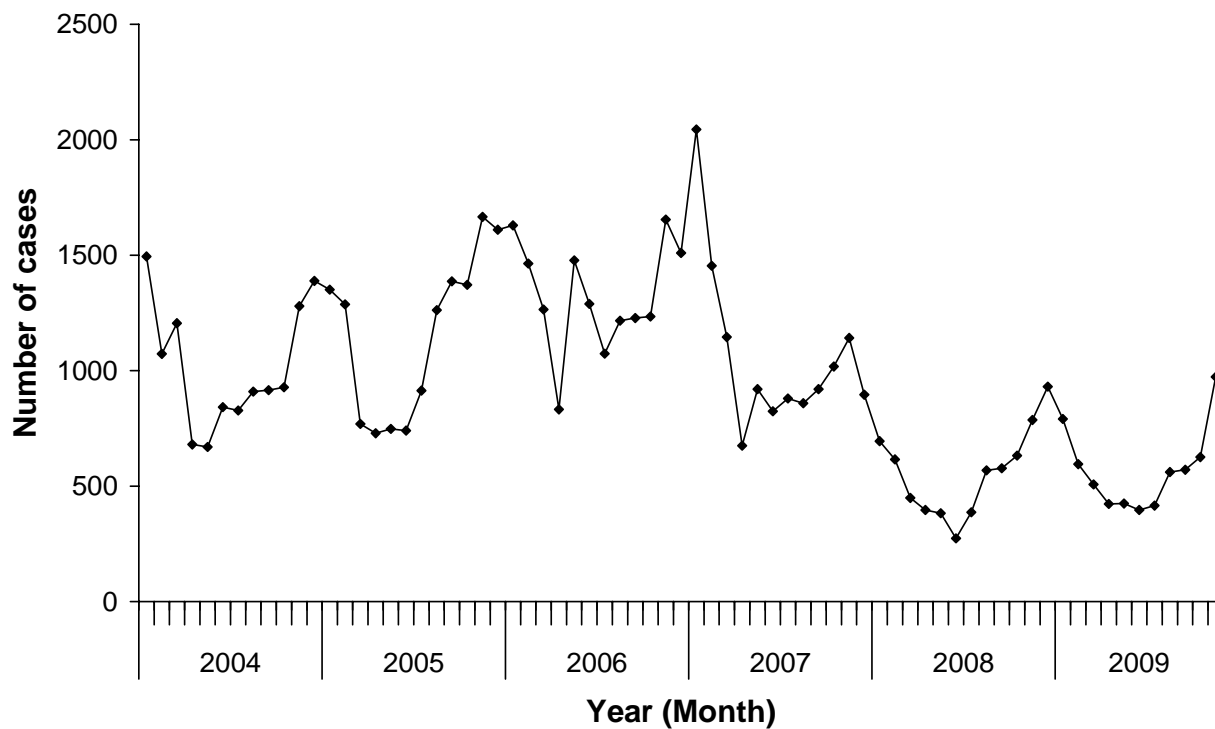
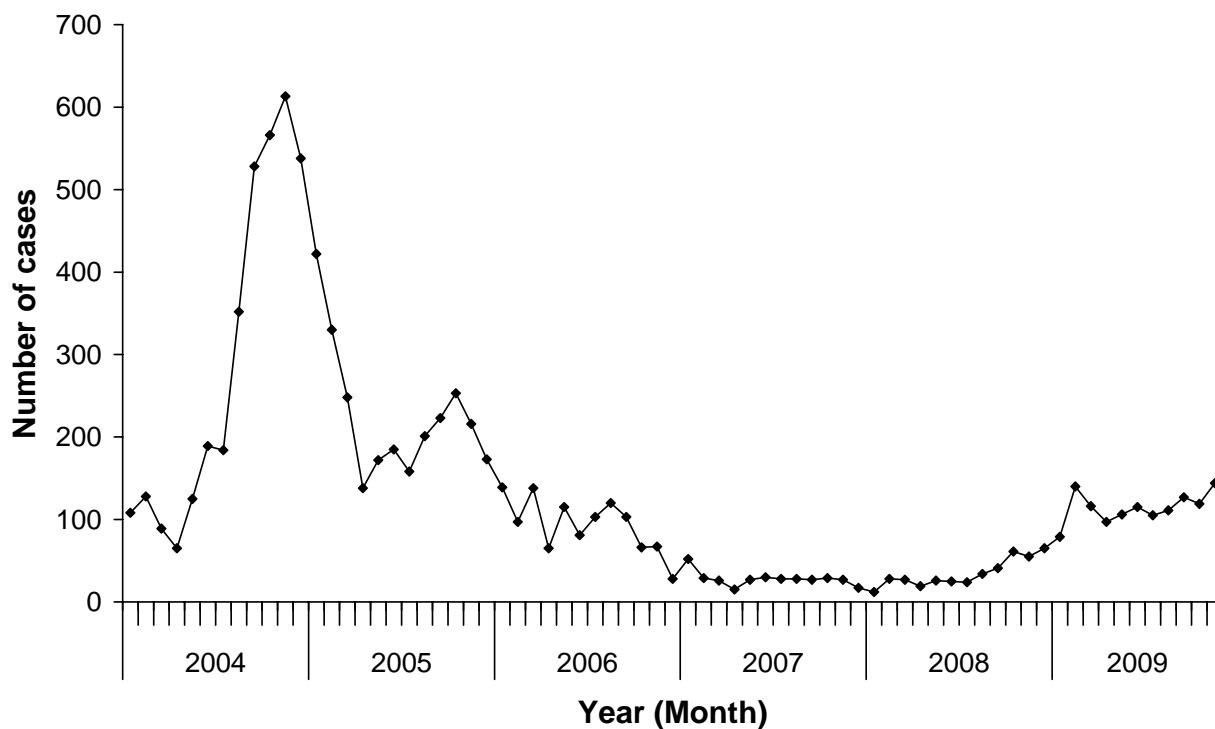


Figure 2: Pertussis notifications by month by year, January 2004 – November 2009



5. Data Tables

National Notifiable Disease Surveillance Data November 2009

| Disease | Current Year - 2009 ¹ | | | Previous Year - 2008 | | |
|--|----------------------------------|----------------------------------|------------------------------------|----------------------|----------------------------------|------------------------------------|
| | November 2009 Cases | Cumulative total since 1 January | Current 12 Month Rate ² | November 2008 Cases | Cumulative total since 1 January | Current 12 Month Rate ² |
| Campylobacteriosis | 973 | 6285 | 169.0 | 786 | 5763 | 156.0 |
| Cryptosporidiosis | 105 | 806 | 19.7 | 81 | 728 | 17.7 |
| Dengue fever | 7 | 138 | 3.4 | 17 | 105 | 2.6 |
| Gastroenteritis ³ | 62 | 673 | 17.6 | 96 | 610 | 15.2 |
| Giardiasis | 146 | 1511 | 38.9 | 120 | 1512 | 37.7 |
| Haemophilus influenzae type b | 1 | 9 | 0.2 | 0 | 9 | 0.2 |
| Hazardous substances injury | 6 | 10 | 0.2 | 4 | 7 | 0.2 |
| Hepatitis A | 5 | 46 | 1.2 | 5 | 84 | 2.0 |
| Hepatitis B ⁴ | 7 | 57 | 1.4 | 2 | 36 | 1.0 |
| Hepatitis C ⁴ | 2 | 35 | 0.9 | 2 | 21 | 0.5 |
| Invasive pneumococcal disease ⁵ | 50 | 667 | 16.8 | 52 | 78 | 1.8 |
| Lead absorption | 17 | 348 | 9.1 | 27 | 275 | 6.7 |
| Legionellosis | 16 | 76 | 2.0 | 14 | 64 | 1.6 |
| Leptospirosis | 7 | 64 | 1.8 | 12 | 105 | 2.6 |
| Listeriosis | 2 | 27 | 0.7 | 1 | 24 | 0.6 |
| Malaria | 3 | 48 | 1.2 | 2 | 37 | 0.9 |
| Measles | 15 | 259 | 6.1 | 3 | 12 | 0.4 |
| Meningococcal disease ⁶ | 7 | 125 | 3.1 | 14 | 115 | 2.9 |
| Mumps | 5 | 59 | 1.5 | 5 | 72 | 1.9 |
| Non seasonal influenza A (H1N1) ⁷ | 8 | 3654 | 85.6 | 0 | 0 | 0.0 |
| Paratyphoid fever | 1 | 23 | 0.6 | 1 | 23 | 0.6 |
| Pertussis | 144 | 1259 | 31.0 | 55 | 352 | 8.6 |
| Rheumatic fever | 5 | 133 | 3.3 | 7 | 144 | 3.5 |
| Rickettsial disease | 0 | 7 | 0.2 | 0 | 10 | 0.2 |
| Rubella | 0 | 6 | 0.2 | 1 | 8 | 0.2 |
| Salmonellosis | 75 | 1040 | 27.4 | 110 | 1216 | 31.2 |
| Shigellosis | 7 | 116 | 3.0 | 7 | 102 | 2.5 |
| Tuberculosis disease | 25 | 281 | 7.0 | 28 | 279 | 7.0 |
| Typhoid fever | 1 | 34 | 0.8 | 1 | 27 | 0.7 |
| VTEC/STEC infection | 12 | 147 | 3.7 | 7 | 114 | 2.8 |
| Yersiniosis | 33 | 395 | 10.3 | 29 | 466 | 11.9 |

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including November 2009) or the previous year (12 months up to and including November 2008), 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 November: Barmah Forest virus infection (1) , Chikungunya fever (1) , Cholera (1) , Hepatitis NOS (1) , Ross River virus infection (1) , Taeniasis (1)

Notifiable Disease Surveillance Data by District Health Board November 2009

| | | Cases ¹ and current rate ² for November 2009 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 | 15 | 154 | 127 | 106 | 82 | 30 | 48 | 8 | 29 | 48 | 19 | 25 | 48 | 84 | 9 | 21 | 6 | 66 | 12 | 20 | 16 |
| | Rate | 143.5 | 181.1 | 191.5 | 148.1 | 183.9 | 183.3 | 157.7 | 61.0 | 206.1 | 216.5 | 218.0 | 136.0 | 250.2 | 250.3 | 145.9 | 137.8 | 120.4 | 107.7 | 208.0 | 123.9 | 153.4 |
| Cryptosporidiosis | Cases | 3 | 7 | 7 | 2 | 15 | 1 | 0 | 0 | 1 | 4 | 1 | 3 | 1 | 11 | 3 | 5 | 7 | 18 | 5 | 9 | 2 |
| | Rate | 23.3 | 13.4 | 11.2 | 10.4 | 30.6 | 12.8 | 12.7 | 17.4 | 20.4 | 22.8 | 14.2 | 18.2 | 12.7 | 46.4 | 32.7 | 18.4 | 52.5 | 20.2 | 52.4 | 15.0 | 21.7 |
| Dengue fever | Cases | 0 | 0 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 1.9 | 2.7 | 7.3 | 8.9 | 2.0 | 2.0 | 1.9 | 4.4 | 0.9 | 2.6 | 3.2 | 3.0 | 2.1 | 4.9 | 2.5 | 0.0 | 3.1 | 1.4 | 0.0 | 0.5 | 0.9 |
| Gastroenteritis | Cases | 2 | 3 | 23 | 0 | 1 | 2 | 0 | 0 | 0 | 3 | 2 | 4 | 1 | 7 | 0 | 2 | 4 | 5 | 0 | 1 | 2 |
| | Rate | 3.2 | 18.1 | 24.4 | 10.6 | 7.0 | 11.8 | 2.4 | 4.4 | 0.0 | 8.5 | 22.1 | 68.0 | 35.9 | 31.3 | 5.0 | 8.8 | 277.9 | 10.7 | 7.2 | 3.7 | 2.7 |
| Giardiasis | Cases | 13 | 14 | 18 | 23 | 9 | 4 | 4 | 0 | 2 | 7 | 4 | 2 | 3 | 14 | 1 | 3 | 1 | 17 | 0 | 6 | 1 |
| | Rate | 41.4 | 30.5 | 47.2 | 42.0 | 43.2 | 62.1 | 29.2 | 24.0 | 43.6 | 48.9 | 34.7 | 10.9 | 26.1 | 64.0 | 27.7 | 35.4 | 40.1 | 36.1 | 18.1 | 30.4 | 38.8 |
| Haemophilus influenzae type b | Cases | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 0.6 | 0.2 | 0.0 | 0.2 | 0.8 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hazardous substances injury | Cases | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 0.6 | 0.4 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hepatitis A | Cases | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| | Rate | 1.3 | 1.0 | 2.3 | 1.5 | 0.8 | 1.0 | 1.5 | 0.0 | 0.9 | 2.6 | 0.0 | 1.2 | 2.8 | 0.7 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 |
| Hepatitis B | Cases | 0 | 0 | 3 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | Rate | 1.9 | 1.2 | 3.2 | 1.5 | 0.3 | 1.0 | 2.4 | 2.2 | 2.8 | 0.7 | 1.6 | 1.2 | 0.0 | 0.7 | 2.5 | 1.5 | 6.2 | 1.0 | 0.0 | 0.5 | 0.9 |
| Hepatitis C | Cases | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 0.6 | 0.2 | 0.9 | 0.8 | 0.0 | 1.0 | 0.5 | 0.0 | 5.6 | 0.0 | 0.0 | 1.2 | 1.4 | 0.7 | 5.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.5 | 0.0 |
| HbS antigen positive individuals | Cases | 3 | 7 | 2 | 7 | 7 | 4 | 6 | 0 | 1 | 4 | 1 | 0 | 2 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 2 |
| | Rate | 18.1 | 12.1 | 12.8 | 20.5 | 25.0 | 29.6 | 22.4 | 19.6 | 21.4 | 23.5 | 17.4 | 10.9 | 21.1 | 10.2 | 27.7 | 16.9 | 0.0 | 11.5 | 12.7 | 17.6 | 18.0 |
| Lead absorption | Cases | 0 | 2 | 5 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 1 | 0 |
| | Rate | 2.6 | 8.5 | 22.8 | 12.9 | 6.5 | 8.9 | 4.4 | 13.1 | 5.6 | 3.9 | 11.1 | 8.5 | 10.6 | 4.9 | 7.5 | 6.6 | 0.0 | 5.2 | 9.0 | 10.7 | 8.1 |
| Legionellosis | Cases | 0 | 4 | 1 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 3 | 0 | 0 | 0 |
| | Rate | 0.0 | 2.9 | 2.5 | 2.7 | 0.6 | 1.0 | 3.9 | 0.0 | 1.9 | 2.6 | 0.0 | 0.6 | 0.7 | 0.7 | 5.0 | 2.2 | 9.3 | 2.2 | 3.6 | 1.6 | 0.9 |
| Leptospirosis | Cases | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | Rate | 4.5 | 0.2 | 0.5 | 0.2 | 3.4 | 2.0 | 4.4 | 0.0 | 5.6 | 5.9 | 4.7 | 3.0 | 0.0 | 0.4 | 2.5 | 1.5 | 6.2 | 1.6 | 1.8 | 0.5 | 3.6 |
| Listeriosis | Cases | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 0.6 | 0.8 | 0.9 | 0.6 | 1.1 | 0.0 | 0.5 | 4.4 | 0.9 | 0.0 | 1.6 | 1.2 | 0.7 | 0.4 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 1.6 | 0.0 |
| Malaria | Cases | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 0.0 | 1.3 | 1.8 | 4.0 | 0.8 | 0.0 | 0.5 | 0.0 | 0.9 | 0.7 | 0.0 | 0.0 | 0.0 | 1.1 | 2.5 | 1.5 | 6.2 | 0.6 | 0.0 | 0.0 | 0.0 |
| Measles | Cases | 1 | 0 | 2 | 2 | 0 | 2 | 1 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 |
| | Rate | 3.2 | 2.9 | 1.8 | 1.1 | 0.3 | 2.0 | 1.0 | 0.0 | 0.0 | 2.0 | 1.6 | 0.6 | 0.0 | 0.4 | 0.0 | 0.7 | 15.4 | 34.3 | 3.6 | 18.7 | 1.8 |
| Meningococcal infection | Cases | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 3.9 | 1.2 | 2.5 | 4.4 | 2.5 | 4.9 | 3.4 | 15.3 | 0.9 | 5.2 | 1.6 | 6.1 | 4.2 | 3.9 | 5.0 | 0.0 | 3.1 | 2.2 | 0.0 | 3.2 | 2.7 |
| Mumps | Cases | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| | Rate | 1.9 | 1.0 | 0.9 | 1.1 | 1.7 | 1.0 | 2.4 | 0.0 | 0.9 | 0.7 | 0.0 | 0.0 | 3.5 | 2.5 | 5.0 | 1.5 | 3.1 | 2.6 | 3.6 | 0.0 | 0.0 |
| Non-typhoid shigellosis | Cases | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | Rate | 115.7 | 64.0 | 84.7 | 65.5 | 50.3 | 49.3 | 51.1 | 108.9 | 30.6 | 113.5 | 112.1 | 48.0 | 150.1 | 179.0 | 135.8 | 58.2 | 200.7 | 120.6 | 137.4 | 42.7 | 41.5 |
| Paratyphoid fever | Cases | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 0.0 | 1.2 | 0.7 | 0.4 | 0.6 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.1 | 2.5 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 |
| Pertussis | Cases | 1 | 18 | 8 | 8 | 34 | 0 | 11 | 5 | 9 | 2 | 0 | 6 | 5 | 8 | 5 | 5 | 1 | 17 | 0 | 0 | 1 |
| | Rate | 10.3 | 21.3 | 14.2 | 15.2 | 61.2 | 31.5 | 28.2 | 24.0 | 32.5 | 17.0 | 12.6 | 15.2 | 36.6 | 32.3 | 17.6 | 67.1 | 89.6 | 61.7 | 45.2 | 10.7 | 25.3 |
| Rheumatic fever | Cases | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 9.0 | 1.5 | 3.0 | 9.3 | 6.2 | 3.0 | 2.4 | 21.8 | 0.9 | 2.6 | 0.0 | 1.2 | 4.9 | 2.5 | 0.0 | 0.7 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 |
| Rickettsial disease | Cases | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 0.6 | 0.4 | 0.0 | 0.0 | 0.6 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Rubella | Cases | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 |
| Salmonellosis | Cases | 1 | 4 | 7 | 5 | 5 | 0 | 2 | 1 | 0 | 7 | 0 | 3 | 5 | 1 | 1 | 1 | 3 | 15 | 3 | 6 | 5 |
| | Rate | 20.0 | 17.5 | 24.7 | 21.5 | 28.4 | 26.6 | 21.9 | 71.9 | 19.5 | 41.7 | 19.0 | 20.6 | 26.8 | 22.5 | 45.3 | 32.4 | 34.0 | 30.6 | 57.9 | 45.9 | 50.5 |
| Shigellosis | Cases | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 |
| | Rate | 2.6 | 4.4 | 4.8 | 5.3 | 2.2 | 2.0 | 1.9 | 2.2 | 0.0 | 0.7 | 0.0 | 0.6 | 2.8 | 2.5 | 2.5 | 2.9 | 6.2 | 2.2 | 1.8 | 2.1 | 2.7 |
| Tuberculosis disease | Cases | 1 | 1 | 6 | 5 | 2 | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| | Rate | 4.5 | 8.6 | 13.9 | 12.5 | 5.3 | 5.9 | 5.4 | 2.2 | 0.9 | 5.9 | 1.6 | 3.0 | 9.2 | 8.1 | 0.0 | 6.6 | 3.1 | 4.4 | 3.6 | 1.1 | 1.8 |
| Typhoid fever | Cases | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 0.0 | 1.0 | 2.1 | 2.7 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 |
| VTEC/STEC infection | Cases | 1 | 2 | 2 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | Rate | 5.8 | 2.1 | 4.8 | 2.7 | 7.9 | 3.9 | 3.4 | 15.3 | 12.1 | 2.6 | 0.0 | 1.8 | 2.1 | 1.8 | 2.5 | 1.5 | 3.1 | 3.4 | 3.6 | 2.7 | 0.9 |
| Yersiniosis | Cases | 2 | 8 | 4 | 1 | 2 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 2 | 1 | 0 | 0 | 2 | 3 | 0 | 4 | 0 |
| | Rate | 6.5 | 9.8 | 16.4 | 5.7 | 7.0 | 9.9 | 3.4 | 4.4 | 16.7 | 11.1 | 6.3 | 2.4 | 18.3 | 18.3 | 2.5 | 2.9 | 37.1 | 13.3 | 14.5 | 8.5 | 5.4 |

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including November 2009 expressed as cases per 100 000

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

‘b] Uglj`Y`dbYi a cVt`VVU`X]gYUgY`VYWUa`Y`U`bch]Z]UV`Y`X]gYUgY`cb`h`Y`%+h`c`Vt`c`VYf`&\$\$,
`H`YgY`h`U`g`UbX`f`UH`g`UFY`XYf]j`YX`Zfca`h`Y`9d]Gi`fj`fYdcfhXUH`Ug`cddcgYX`h`h`Y`YUf`Y]gh`Uj`Uj`UV`Y`XUH`i`gYX`]b`h`Y`a`Yb]b[`c`Vt`VVU`X]gYUgY`gYVU]cb`c`ZH`jg`fYdcfh
`Bcb]`gYUgcbU`]bZi`YbnU`fVUdUV`Y`c`ZH`fUbg`a`]gg]cb`VYh`YYb`i`a`Ub`VY]b[`gk`VYWUa`Y`Ub`]bZYVU]ci`g`bch]Z]UV`Y`X]gYUgY`cb`&-`5dfj`i`&\$-\$-`"

Notifiable Disease Surveillance Data by District Health Board November 2009

| | | Cases ¹ and current rate ² for November 2009 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 | 15 | 154 | 127 | 106 | 82 | 30 | 48 | 8 | 29 | 48 | 19 | 25 | 48 | 84 | 9 | 21 | 6 | 66 | 12 | 20 | 16 |
| | Rate | 143.5 | 181.1 | 191.5 | 148.1 | 183.9 | 183.3 | 157.7 | 61.0 | 206.1 | 216.5 | 218.0 | 136.0 | 250.2 | 250.3 | 145.9 | 137.8 | 120.4 | 107.7 | 208.0 | 123.9 | 153.4 |
| Cryptosporidiosis | Cases | 3 | 7 | 7 | 2 | 15 | 1 | 0 | 0 | 1 | 4 | 1 | 3 | 1 | 11 | 3 | 5 | 7 | 18 | 5 | 9 | 2 |
| | Rate | 23.3 | 13.4 | 11.2 | 10.4 | 30.6 | 12.8 | 12.7 | 17.4 | 20.4 | 22.8 | 14.2 | 18.2 | 12.7 | 46.4 | 32.7 | 18.4 | 52.5 | 20.2 | 52.4 | 15.0 | 21.7 |
| Dengue fever | Cases | 0 | 0 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 1.9 | 2.7 | 7.3 | 8.9 | 2.0 | 2.0 | 1.9 | 4.4 | 0.9 | 2.6 | 3.2 | 3.0 | 2.1 | 4.9 | 2.5 | 0.0 | 3.1 | 1.4 | 0.0 | 0.5 | 0.9 |
| Gastroenteritis | Cases | 2 | 3 | 23 | 0 | 1 | 2 | 0 | 0 | 0 | 3 | 2 | 4 | 1 | 7 | 0 | 2 | 4 | 5 | 0 | 1 | 2 |
| | Rate | 3.2 | 18.1 | 24.4 | 10.6 | 7.0 | 11.8 | 2.4 | 4.4 | 0.0 | 8.5 | 22.1 | 68.0 | 35.9 | 31.3 | 5.0 | 8.8 | 277.9 | 10.7 | 7.2 | 3.7 | 2.7 |
| Giardiasis | Cases | 13 | 14 | 18 | 23 | 9 | 4 | 4 | 0 | 2 | 7 | 4 | 2 | 3 | 14 | 1 | 3 | 1 | 17 | 0 | 6 | 1 |
| | Rate | 41.4 | 30.5 | 47.2 | 42.0 | 43.2 | 62.1 | 29.2 | 24.0 | 43.6 | 48.9 | 34.7 | 10.9 | 26.1 | 64.0 | 27.7 | 35.4 | 40.1 | 36.1 | 18.1 | 30.4 | 38.8 |
| Haemophilus influenzae type b | Cases | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 0.6 | 0.2 | 0.0 | 0.2 | 0.8 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hazardous substances injury | Cases | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 0.6 | 0.4 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hepatitis A | Cases | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| | Rate | 1.3 | 1.0 | 2.3 | 1.5 | 0.8 | 1.0 | 1.5 | 0.0 | 0.9 | 2.6 | 0.0 | 1.2 | 2.8 | 0.7 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 |
| Hepatitis B | Cases | 0 | 0 | 3 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | Rate | 1.9 | 1.2 | 3.2 | 1.5 | 0.3 | 1.0 | 2.4 | 2.2 | 2.8 | 0.7 | 1.6 | 1.2 | 0.0 | 0.7 | 2.5 | 1.5 | 6.2 | 1.0 | 0.0 | 0.5 | 0.9 |
| Hepatitis C | Cases | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 0.6 | 0.2 | 0.9 | 0.8 | 0.0 | 1.0 | 0.5 | 0.0 | 5.6 | 0.0 | 0.0 | 1.2 | 1.4 | 0.7 | 5.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.5 | 0.0 |
| ᑭᑭ ᑭᑭ ᑭᑭ ᑭᑭᑭᑭ ᑭᑭᑭᑭᑭᑭ ᑭᑭᑭᑭᑭᑭ | Cases | 3 | 7 | 2 | 7 | 7 | 4 | 6 | 0 | 1 | 4 | 1 | 0 | 2 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 2 |
| | Rate | 18.1 | 12.1 | 12.8 | 20.5 | 25.0 | 29.6 | 22.4 | 19.6 | 21.4 | 23.5 | 17.4 | 10.9 | 21.1 | 10.2 | 27.7 | 16.9 | 0.0 | 11.5 | 12.7 | 17.6 | 18.0 |
| Lead absorption | Cases | 0 | 2 | 5 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 1 | 0 |
| | Rate | 2.6 | 8.5 | 22.8 | 12.9 | 6.5 | 8.9 | 4.4 | 13.1 | 5.6 | 3.9 | 11.1 | 8.5 | 10.6 | 4.9 | 7.5 | 6.6 | 0.0 | 5.2 | 9.0 | 10.7 | 8.1 |
| Legionellosis | Cases | 0 | 4 | 1 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 3 | 0 | 0 | 0 |
| | Rate | 0.0 | 2.9 | 2.5 | 2.7 | 0.6 | 1.0 | 3.9 | 0.0 | 1.9 | 2.6 | 0.0 | 0.6 | 0.7 | 0.7 | 5.0 | 2.2 | 9.3 | 2.2 | 3.6 | 1.6 | 0.9 |
| Leptospirosis | Cases | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | Rate | 4.5 | 0.2 | 0.5 | 0.2 | 3.4 | 2.0 | 4.4 | 0.0 | 5.6 | 5.9 | 4.7 | 3.0 | 0.0 | 0.4 | 2.5 | 1.5 | 6.2 | 1.6 | 1.8 | 0.5 | 3.6 |
| Listeriosis | Cases | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 0.6 | 0.8 | 0.9 | 0.6 | 1.1 | 0.0 | 0.5 | 4.4 | 0.9 | 0.0 | 1.6 | 1.2 | 0.7 | 0.4 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 1.6 | 0.0 |
| Malaria | Cases | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 0.0 | 1.3 | 1.8 | 4.0 | 0.8 | 0.0 | 0.5 | 0.0 | 0.9 | 0.7 | 0.0 | 0.0 | 0.0 | 1.1 | 2.5 | 1.5 | 6.2 | 0.6 | 0.0 | 0.0 | 0.0 |
| Measles | Cases | 1 | 0 | 2 | 2 | 0 | 2 | 1 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 |
| | Rate | 3.2 | 2.9 | 1.8 | 1.1 | 0.3 | 2.0 | 1.0 | 0.0 | 0.0 | 2.0 | 1.6 | 0.6 | 0.0 | 0.4 | 0.0 | 0.7 | 15.4 | 34.3 | 3.6 | 18.7 | 1.8 |
| A ᑭᑭᑭᑭᑭᑭ ᑭᑭᑭᑭᑭᑭ ᑭᑭᑭᑭᑭᑭ | Cases | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 3.9 | 1.2 | 2.5 | 4.4 | 2.5 | 4.9 | 3.4 | 15.3 | 0.9 | 5.2 | 1.6 | 6.1 | 4.2 | 3.9 | 5.0 | 0.0 | 3.1 | 2.2 | 0.0 | 3.2 | 2.7 |
| Mumps | Cases | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| | Rate | 1.9 | 1.0 | 0.9 | 1.1 | 1.7 | 1.0 | 2.4 | 0.0 | 0.9 | 0.7 | 0.0 | 0.0 | 3.5 | 2.5 | 5.0 | 1.5 | 3.1 | 2.6 | 3.6 | 0.0 | 0.0 |
| Bcb ᑭᑭᑭᑭᑭᑭ ᑭᑭᑭᑭ ᑭᑭᑭᑭᑭᑭ ᑭᑭᑭᑭᑭᑭ | Cases | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | Rate | 115.7 | 64.0 | 84.7 | 65.5 | 50.3 | 49.3 | 51.1 | 108.9 | 30.6 | 113.5 | 112.1 | 48.0 | 150.1 | 179.0 | 135.8 | 58.2 | 200.7 | 120.6 | 137.4 | 42.7 | 41.5 |
| Paratyphoid fever | Cases | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 0.0 | 1.2 | 0.7 | 0.4 | 0.6 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.1 | 2.5 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 |
| Pertussis | Cases | 1 | 18 | 8 | 8 | 34 | 0 | 11 | 5 | 9 | 2 | 0 | 6 | 5 | 8 | 5 | 5 | 1 | 17 | 0 | 0 | 1 |
| | Rate | 10.3 | 21.3 | 14.2 | 15.2 | 61.2 | 31.5 | 28.2 | 24.0 | 32.5 | 17.0 | 12.6 | 15.2 | 36.6 | 32.3 | 17.6 | 67.1 | 89.6 | 61.7 | 45.2 | 10.7 | 25.3 |
| Rheumatic fever | Cases | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 9.0 | 1.5 | 3.0 | 9.3 | 6.2 | 3.0 | 2.4 | 21.8 | 0.9 | 2.6 | 0.0 | 1.2 | 4.9 | 2.5 | 0.0 | 0.7 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 |
| Rickettsial disease | Cases | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 0.6 | 0.4 | 0.0 | 0.0 | 0.6 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Rubella | Cases | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 |
| Salmonellosis | Cases | 1 | 4 | 7 | 5 | 5 | 0 | 2 | 1 | 0 | 7 | 0 | 3 | 5 | 1 | 1 | 1 | 3 | 15 | 3 | 6 | 5 |
| | Rate | 20.0 | 17.5 | 24.7 | 21.5 | 28.4 | 26.6 | 21.9 | 71.9 | 19.5 | 41.7 | 19.0 | 20.6 | 26.8 | 22.5 | 45.3 | 32.4 | 34.0 | 30.6 | 57.9 | 45.9 | 50.5 |
| Shigellosis | Cases | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 |
| | Rate | 2.6 | 4.4 | 4.8 | 5.3 | 2.2 | 2.0 | 1.9 | 2.2 | 0.0 | 0.7 | 0.0 | 0.6 | 2.8 | 2.5 | 2.5 | 2.9 | 6.2 | 2.2 | 1.8 | 2.1 | 2.7 |
| Tuberculosis disease | Cases | 1 | 1 | 6 | 5 | 2 | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| | Rate | 4.5 | 8.6 | 13.9 | 12.5 | 5.3 | 5.9 | 5.4 | 2.2 | 0.9 | 5.9 | 1.6 | 3.0 | 9.2 | 8.1 | 0.0 | 6.6 | 3.1 | 4.4 | 3.6 | 1.1 | 1.8 |
| Typhoid fever | Cases | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rate | 0.0 | 1.0 | 2.1 | 2.7 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 |
| VTEC/STEC infection | Cases | 1 | 2 | 2 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | Rate | 5.8 | 2.1 | 4.8 | 2.7 | 7.9 | 3.9 | 3.4 | 15.3 | 12.1 | 2.6 | 0.0 | 1.8 | 2.1 | 1.8 | 2.5 | 1.5 | 3.1 | 3.4 | 3.6 | 2.7 | 0.9 |
| Yersiniosis | Cases | 2 | 8 | 4 | 1 | 2 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 2 | 1 | 0 | 0 | 2 | 3 | 0 | 4 | 0 |
| | Rate | 6.5 | 9.8 | 16.4 | 5.7 | 7.0 | 9.9 | 3.4 | 4.4 | 16.7 | 11.1 | 6.3 | 2.4 | 18.3 | 18.3 | 2.5 | 2.9 | 37.1 | 13.3 | 14.5 | 8.5 | 5.4 |

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including November 2009 expressed as cases per 100 000

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

-bJ Uglj Y dbyI a cVtWwU'X]gYUgY VYVWa Y U'bchjZUV'Y'X]gYUgY'cb h'Y'%'&h' C'VtWwVYF'&\$\$,
 'H'YgY'hcHJ'g'UbX'fUH'g'UfY'XYfj]YX'Z'ca' h'Y'9d]G' f] 'fYdcfhXUhr'Ug'cddcgYX'hc' h'Y'Yuf'Y]ghUj U]UV'Y'XUhr'i gYX'j'b' h'Y'a Yb]b[cVtWwU'X]gYUgY'gYVW]cb'cZH'jg'fYdcfh
 'Bcb] gYUgcB U'j]bZi YbnU'fWdUV'Y'cZH'fUbg a jgg]cb VYHk Yyb' \i a Ub'VY]b[gL'VYVWa Y'Ub j]bZVW]ci g'b'chZUV'Y'X]gYUgY'cb'&- '5df]'&\$-\$- "

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

| Disease | Cases for the 12 months ending November 2009 ^{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 | 7216 | 222 | 943 | 839 | 701 | 655 | 186 | 324 | 28 | 222 | 332 | 138 | 224 | 355 | 712 | 58 | 187 | 39 | 534 | 115 | 232 | 170 |
| Cryptosporidiosis | 842 | 36 | 70 | 49 | 49 | 109 | 13 | 26 | 8 | 22 | 35 | 9 | 30 | 18 | 132 | 13 | 25 | 17 | 100 | 29 | 28 | 24 |
| Dengue fever | 146 | 3 | 14 | 32 | 42 | 7 | 2 | 4 | 2 | 1 | 4 | 2 | 5 | 3 | 14 | 1 | 0 | 1 | 7 | 0 | 1 | 1 |
| Gastroenteritis | 750 | 5 | 94 | 107 | 50 | 25 | 12 | 5 | 2 | 0 | 13 | 14 | 112 | 51 | 89 | 2 | 12 | 90 | 53 | 4 | 7 | 3 |
| Giardiasis | 1659 | 64 | 159 | 207 | 199 | 154 | 63 | 60 | 11 | 47 | 75 | 22 | 18 | 37 | 182 | 11 | 48 | 13 | 179 | 10 | 57 | 43 |
| Haemophilus influenzae type b | 9 | 1 | 1 | 0 | 1 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hazardous substances injury | 10 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hepatitis A | 51 | 2 | 5 | 10 | 7 | 3 | 1 | 3 | 0 | 1 | 4 | 0 | 2 | 4 | 2 | 0 | 0 | 0 | 7 | 0 | 0 | 0 |
| Hepatitis B | 59 | 3 | 6 | 14 | 7 | 1 | 1 | 5 | 1 | 3 | 1 | 1 | 2 | 0 | 2 | 1 | 2 | 2 | 5 | 0 | 1 | 1 |
| Hepatitis C | 37 | 1 | 1 | 4 | 4 | 0 | 1 | 1 | 0 | 6 | 0 | 0 | 2 | 2 | 2 | 2 | 0 | 0 | 10 | 0 | 1 | 0 |
| Ischaemic heart disease | 716 | 28 | 63 | 56 | 97 | 89 | 30 | 46 | 9 | 23 | 36 | 11 | 18 | 30 | 29 | 11 | 23 | 0 | 57 | 7 | 33 | 20 |
| Lead absorption | 390 | 4 | 44 | 100 | 61 | 23 | 9 | 9 | 6 | 6 | 6 | 7 | 14 | 15 | 14 | 3 | 9 | 0 | 26 | 5 | 20 | 9 |
| Legionellosis | 85 | 0 | 15 | 11 | 13 | 2 | 1 | 8 | 0 | 2 | 4 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 11 | 2 | 3 | 1 |
| Leptospirosis | 77 | 7 | 1 | 2 | 1 | 12 | 2 | 9 | 0 | 6 | 9 | 3 | 5 | 0 | 1 | 1 | 2 | 2 | 8 | 1 | 1 | 4 |
| Listeriosis | 30 | 1 | 4 | 4 | 3 | 4 | 0 | 1 | 2 | 1 | 0 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 2 | 0 | 3 | 0 |
| Malaria | 51 | 0 | 7 | 8 | 19 | 3 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 3 | 1 | 2 | 2 | 3 | 0 | 0 | 0 |
| Measles | 259 | 5 | 15 | 8 | 5 | 1 | 2 | 2 | 0 | 0 | 3 | 1 | 1 | 0 | 1 | 0 | 1 | 5 | 170 | 2 | 35 | 2 |
| Non-infectious diseases | 132 | 6 | 6 | 11 | 21 | 9 | 5 | 7 | 7 | 1 | 8 | 1 | 10 | 6 | 11 | 2 | 0 | 1 | 11 | 0 | 6 | 3 |
| Mumps | 63 | 3 | 5 | 4 | 5 | 6 | 1 | 5 | 0 | 1 | 1 | 0 | 0 | 5 | 7 | 2 | 2 | 1 | 13 | 2 | 0 | 0 |
| Non-infectious diseases | 3654 | 179 | 333 | 371 | 310 | 179 | 50 | 105 | 50 | 33 | 174 | 71 | 79 | 213 | 509 | 54 | 79 | 65 | 598 | 76 | 80 | 46 |
| Paratyphoid fever | 25 | 0 | 6 | 3 | 2 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 1 | 0 | 0 | 3 | 0 | 0 | 0 |
| Pertussis | 1324 | 16 | 111 | 62 | 72 | 218 | 32 | 58 | 11 | 35 | 26 | 8 | 25 | 52 | 92 | 7 | 91 | 29 | 306 | 25 | 20 | 28 |
| Rheumatic fever | 142 | 14 | 8 | 13 | 44 | 22 | 3 | 5 | 10 | 1 | 4 | 0 | 2 | 7 | 7 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| Rickettsial disease | 7 | 1 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rubella | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| Salmonellosis | 1170 | 31 | 91 | 108 | 102 | 101 | 27 | 45 | 33 | 21 | 64 | 12 | 34 | 38 | 64 | 18 | 44 | 11 | 152 | 32 | 86 | 56 |
| Shigellosis | 127 | 4 | 23 | 21 | 25 | 8 | 2 | 4 | 1 | 0 | 1 | 0 | 1 | 4 | 7 | 1 | 4 | 2 | 11 | 1 | 4 | 3 |
| Tuberculosis disease | 299 | 7 | 45 | 61 | 59 | 19 | 6 | 11 | 1 | 1 | 9 | 1 | 5 | 13 | 23 | 0 | 9 | 1 | 22 | 2 | 2 | 2 |
| Typhoid fever | 36 | 0 | 5 | 9 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| VTEC/STEC infection | 157 | 9 | 11 | 21 | 13 | 28 | 4 | 7 | 7 | 13 | 4 | 0 | 3 | 3 | 5 | 1 | 2 | 1 | 17 | 2 | 5 | 1 |
| Yersiniosis | 438 | 10 | 51 | 72 | 27 | 25 | 10 | 7 | 2 | 18 | 17 | 4 | 4 | 26 | 52 | 1 | 4 | 12 | 66 | 8 | 16 | 6 |
| Total | 19968 | 663 | 2141 | 2209 | 1952 | 1711 | 466 | 761 | 191 | 465 | 836 | 306 | 601 | 887 | 1976 | 193 | 550 | 297 | 2376 | 323 | 641 | 423 |

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

“b] Uglj Y`dbYi a cVtVWU`X]gYUgY`VYVWla Y`U`bch]Z]UV`Y`X]gYUgY`cb`h`Y`%+h`C`WtVYf`&\$\$,`h`Y`gY`hc`HJ`g`UbX`fUH`g`UFY`XYf]j`YX`Zfca`h`Y`9d]Gi`fj`fYdcfhXUH`Ug`cddcgYX`hc`h`Y`YUf`Y]ghUj`U]`UV`Y`XUH`i`gYX`]b`h`Y`a`Yb]b[`cVtVWU`X]gYUgY`gYVW]cb`cZ`h`Jg`fYdcfh`Bcb]`gYUgcbU`]bZi`YbnU`fWdUV`Y`cZ`fUbg`a`Jgg]cb`VYhk`YYb`\\i`a`Ub`VY]b[`gE`VYWla`Y`Ub`]bZ`VW]ci`g`bch]Z]UV`Y`X]gYUgY`cb`&-`5df]`&\$\$-`”

National Notifiable Disease Surveillance Data November 2009

| Disease | Current Year - 2009 ¹ | | | Previous Year - 2008 | | |
|-----------------------------------|----------------------------------|----------------------------------|------------------------------------|----------------------|----------------------------------|------------------------------------|
| | November 2009 Cases | Cumulative total since 1 January | Current 12 Month Rate ² | November 2008 Cases | Cumulative total since 1 January | Current 12 Month Rate ² |
| Campylobacteriosis | 973 | 6285 | 169.0 | 786 | 5763 | 156.0 |
| Cryptosporidiosis | 105 | 806 | 19.7 | 81 | 728 | 17.7 |
| Dengue fever | 7 | 138 | 3.4 | 17 | 105 | 2.6 |
| Gastroenteritis ³ | 62 | 673 | 17.6 | 96 | 610 | 15.2 |
| Giardiasis | 146 | 1511 | 38.9 | 120 | 1512 | 37.7 |
| Haemophilus influenzae type b | 1 | 9 | 0.2 | 0 | 9 | 0.2 |
| Hazardous substances injury | 6 | 10 | 0.2 | 4 | 7 | 0.2 |
| Hepatitis A | 5 | 46 | 1.2 | 5 | 84 | 2.0 |
| <YdUh]hg`6 | 7 | 57 | 1.4 | 2 | 36 | 1.0 |
| <YdUh]hg`7 | 2 | 35 | 0.9 | 2 | 21 | 0.5 |
| ⊕j Ug]j Y`dbYi a cWŁVWU`X]gYUgY | 50 | 667 | 16.8 | 52 | 78 | 1.8 |
| Lead absorption | 17 | 348 | 9.1 | 27 | 275 | 6.7 |
| Legionellosis | 16 | 76 | 2.0 | 14 | 64 | 1.6 |
| Leptospirosis | 7 | 64 | 1.8 | 12 | 105 | 2.6 |
| Listeriosis | 2 | 27 | 0.7 | 1 | 24 | 0.6 |
| Malaria | 3 | 48 | 1.2 | 2 | 37 | 0.9 |
| Measles | 15 | 259 | 6.1 | 3 | 12 | 0.4 |
| A Yb]b[cWŁVWU`X]gYUgY | 7 | 125 | 3.1 | 14 | 115 | 2.9 |
| Mumps | 5 | 59 | 1.5 | 5 | 72 | 1.9 |
| Bcb`gYUgcbU`]bZi YbnU`5`fk`%B`%Ł` | 8 | 3654 | 85.6 | 0 | 0 | 0.0 |
| Paratyphoid fever | 1 | 23 | 0.6 | 1 | 23 | 0.6 |
| Pertussis | 144 | 1259 | 31.0 | 55 | 352 | 8.6 |
| Rheumatic fever | 5 | 133 | 3.3 | 7 | 144 | 3.5 |
| Rickettsial disease | 0 | 7 | 0.2 | 0 | 10 | 0.2 |
| Rubella | 0 | 6 | 0.2 | 1 | 8 | 0.2 |
| Salmonellosis | 75 | 1040 | 27.4 | 110 | 1216 | 31.2 |
| Shigellosis | 7 | 116 | 3.0 | 7 | 102 | 2.5 |
| Tuberculosis disease | 25 | 281 | 7.0 | 28 | 279 | 7.0 |
| Typhoid fever | 1 | 34 | 0.8 | 1 | 27 | 0.7 |
| VTEC/STEC infection | 12 | 147 | 3.7 | 7 | 114 | 2.8 |
| Yersiniosis | 33 | 395 | 10.3 | 29 | 466 | 11.9 |

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including November 2009) or the previous year (12 months up to and including November 2008), expressed as cases per 100 000

³ Cases of gastroenteritis from a common source or foodborne intoxication

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

Other notifiable infectious disease reported in November: Barmah Forest virus infection (1) , Chikungunya fever (1) , Cholera (1) , Hepatitis NOS (1) , Ross River virus infection (1) , Taeniasis (1)