

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 6 October 2010. As this information may be updated over time, the results should be regarded as provisional only.

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1. Key notifiable disease trends

- *Brucellosis*: One case of confirmed brucellosis was notified in September 2010. The case had travelled to United States of America where the disease was acquired.
- *Cholera*: One probable case of cholera was notified in September 2010. The case has since been de-notified after laboratory tests indicated that the case was infected with a non O1 non O139 serogroup strain of *Vibrio cholerae*.
- *Campylobacteriosis*: 665 cases of campylobacteriosis were notified in September 2010 compared to 574 cases notified in the same month of the previous year. Five hundred and seventy-seven cases were laboratory-confirmed. For the 12-month period ending 30 September 2010, the highest incidence rates were reported in Taranaki (273.5 per 100 000 population, 296 cases), Hutt Valley (259.3 per 100 000, 370 cases), and Capital and Coast (232.2 per 100 000, 669 cases) DHBs compared to a national rate of 179.7 per 100 000.
- *Cryptosporidiosis*: 182 cases of cryptosporidiosis were notified in September 2010 compared to 130 cases notified during the same month of the previous year (Figure 1). The highest number of cases was reported in Waikato DHB (58 cases), followed by Canterbury and South Canterbury DHBs (21 cases each). The highest number of cases was reported in the 1-4 years age group (68 cases). Two cases were hospitalised. *Cryptosporidium parvum* oocysts were detected in faecal specimens for 95.6% (174/182) of the cases. Among the cases where risk information was recorded, 84.5% (71/84) had contact with farm animals, 45.2% (19/42) had contact with sick animals, 38.8% (33/85) had attended school, 34.0% (16/47) had consumed food from a food premise, 34.0% (17/50) had contact with other symptomatic people, and 13.5% (7/52) had recreational contact with water.
- *Dengue fever*: Nine cases of dengue fever were notified in September 2010 compared to two notified cases during the same month of the previous year. Cases were reported in the following DHBs: Auckland (3 cases), Otago (2 cases), Northland, Waitemata, Waikato, and Bay of Plenty (1 case each). The highest numbers of cases was in the 40-49 years (3 cases) and 60-69 years (2 cases) age groups. Three hospitalisations were reported. Overseas travel during the incubation period was reported for all cases. The countries visited were India (2), American Samoa, Australia, East Timor, Guatemala, Indonesia, Philippines, Singapore, Thailand, and Vanuatu (1 each).
- *Giardiasis*: 176 cases of giardiasis were notified in September 2010 compared to 135 cases notified in the same month of the previous year. The highest number of cases was reported in Counties Manukau DHB (31 cases), followed by Auckland (29 cases) and Canterbury (28 cases) DHBs. Among the cases where risk information was recorded, 39.5% (15/38) had recreational contact with

water, 35.4% (17/48) had attended school, and 32.5% (13/40) had contact with faecal matter, 31.7% (13/41) had contact with farm animals, 22.9% (11/48) had been overseas during the incubation period, and 16.1% (5/31) had consumed untreated water. Six *Giardia* outbreaks (4 completed, 2 interim) involving 13 cases were reported in September.

- *Hepatitis A*: Seven cases of hepatitis A were notified in September 2010 (five confirmed, two under investigation). Ethnicity was reported as Pacific Peoples (2 cases), Asian (2 cases), Maori (1 case), and is unknown for the remaining two cases. Of the five confirmed cases, four reported overseas travel history during the incubation period. The remaining confirmed case most likely contracted the disease from an overseas visitor from Samoa.
- *Lead absorption*: 17 cases of lead absorption were notified in September 2010 compared to 24 notified cases during the same month of the previous year. The highest number of cases was reported in Otago DHB. The cases were aged between 20-29 years and 60-69 years, with the highest number in the 50-59 years age group (6 cases). Occupation information was recorded for ten cases: painter/decorator (4 cases), miner (2 cases), builder, metal casting trades worker, sickness beneficiary, and retired (1 case each). Of these, two cases had reported occupational exposure to lead. Of the remaining seven cases, two reported exposure to lead through hobbies (small bore shooting).
- *Meningococcal disease*: Based on the earliest date available¹, four cases of meningococcal disease were notified during September 2010, all of which were laboratory-confirmed. In comparison, 11 cases (10 laboratory-confirmed) were notified in the previous month and 13 (all laboratory-confirmed) during the same month last year. For the 12-month period ending 30 September 2010, the highest incidence rate was reported in Tairāwhiti DHB (6.5 per 100 000 population, 3 cases), followed by Northland (4.5 per 100 000, 7 cases), MidCentral (4.2 per 100 000, 7 cases) and Hutt Valley (4.2 per 100 000, 6 cases) DHBs. The highest age-specific rate was in infants aged less than one year (34.9 per 100 000 population, 22 cases), followed by those in the 1-4 years age group (9.9 per 100 000, 24 cases).
- *Salmonellosis*: 120 cases of salmonellosis were notified in September 2010 compared to 71 cases notified in the same month of the previous year (Figure 2). There were 108 (90.0%) laboratory-confirmed cases. The highest numbers of cases were reported from Canterbury (21 cases), Otago (13 cases) and Southland (10 cases) DHBs. The cases were aged between less than one year and over 70 years, with the highest numbers of cases in the 1-4 years (25 cases), 30-39 years (21 cases), 5-9 years and over 70 years (12 cases each) age groups. Twenty-four of the reported cases were hospitalised. The serotype involved was identified in 92 of the cases, and the dominant serotypes were *Salmonella* Typhimurium phage type RDNC-May 06 (21 cases), *S. Typhimurium* phage type 155 and *S. Typhimurium* phage type 160 (9 cases each). Ten of the cases were linked to a *S. Typhimurium* phage type 155 outbreak from a made to order chocolate mousse cake with uncooked egg white.
- *Toxic shellfish poisoning – unspecified*: One probable case of toxic shellfish poisoning was reported in September 2010. The case had consumed crabs, scallops and fish from a restaurant meal using imported products. The case was hospitalised.
- *Tuberculosis disease*: 43 cases of tuberculosis disease were notified in September 2010, compared to 26 cases notified in the same month of the previous year. Twenty-three (53.5%) of the cases were laboratory confirmed. The highest number of cases was reported in Counties Manukau DHB (9 cases), followed by Auckland, Bay of Plenty, and Capital and Coast DHBs (6 cases each). Cases were aged between less than one year and 70+ years, with the highest number of cases in the 20-29 years age group (14 cases). Ethnicity was recorded for 36 cases (83.7%): Asian (19 cases), Pacific Peoples (5 cases), European (5 cases) and Maori (3 cases). Twenty-three cases were born outside of New Zealand, of which ten had been born in India.

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

Table 1: Summary of completed outbreaks reported during September 2010

Organism/Toxin/Illness	Health District(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Wellington	1	6
<i>Cryptosporidium</i>	Auckland, Waikato	4	11
Gastroenteritis	Auckland, Tauranga, Wellington, Canterbury	8	81
<i>Giardia</i>	Auckland, Waikato	4	11
Norovirus	Wellington, Canterbury	3	68
Rotavirus	Otago, Southland	2	33
Total		22	210

Interim outbreak reports: 33 interim outbreaks have been reported in September 2010 (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 reported during September 2010

Organism/Toxin/Illness	Health District(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Waikato, Canterbury, West Coast	4	5
<i>Cryptosporidium</i>	Waikato	3	2
Gastroenteritis	Auckland, Waikato, Canterbury	19	138
<i>Giardia</i>	Auckland, Waikato	2	2
Norovirus	West Coast	1	6
Rotavirus	Auckland	3	10
<i>Salmonella</i> Typhimurium phage type 155	South Canterbury	1	21
Total		33	184

3. Deaths from notifiable diseases

Three deaths were reported in September 2010 from invasive pneumococcal disease and non seasonal influenza A (H1N1) (Table 3).

Table 3: Summary of deaths from notifiable diseases reported during September 2010

Disease	District Health Board	Age group (years)
Invasive pneumococcal disease	Auckland	70+
Invasive pneumococcal disease	Otago	40-49
Non seasonal influenza A (H1N1)	Counties Manukau	70+

4. Trends in selected diseases to September 2010

Figure 1: Cryptosporidiosis notifications by month by year, January 2005 – September 2010

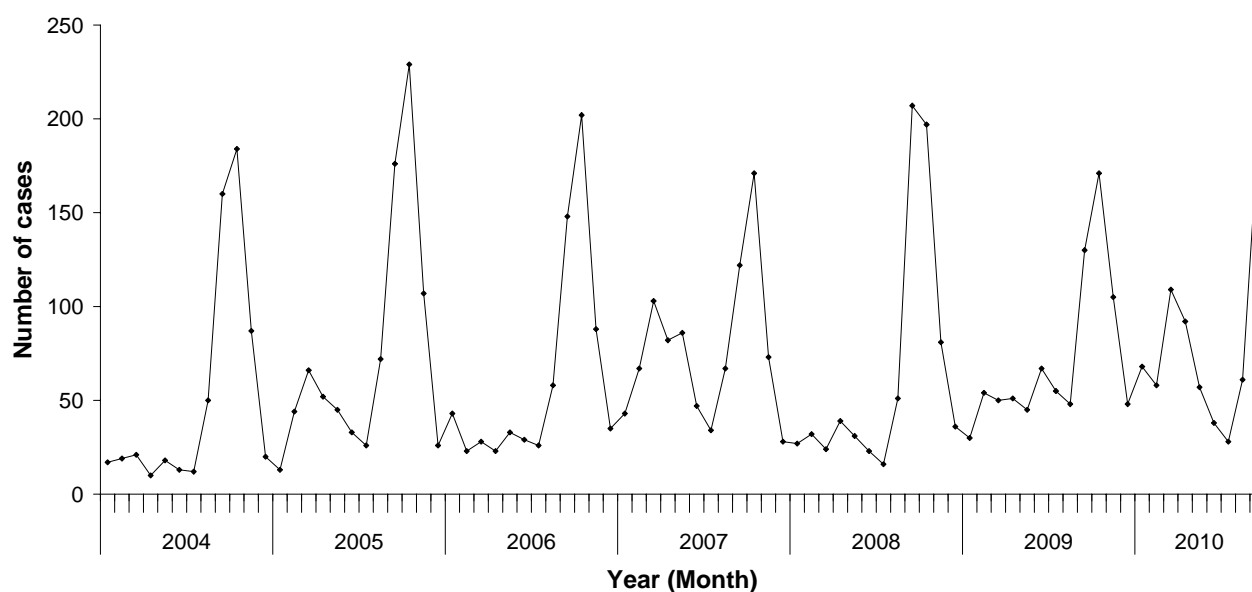
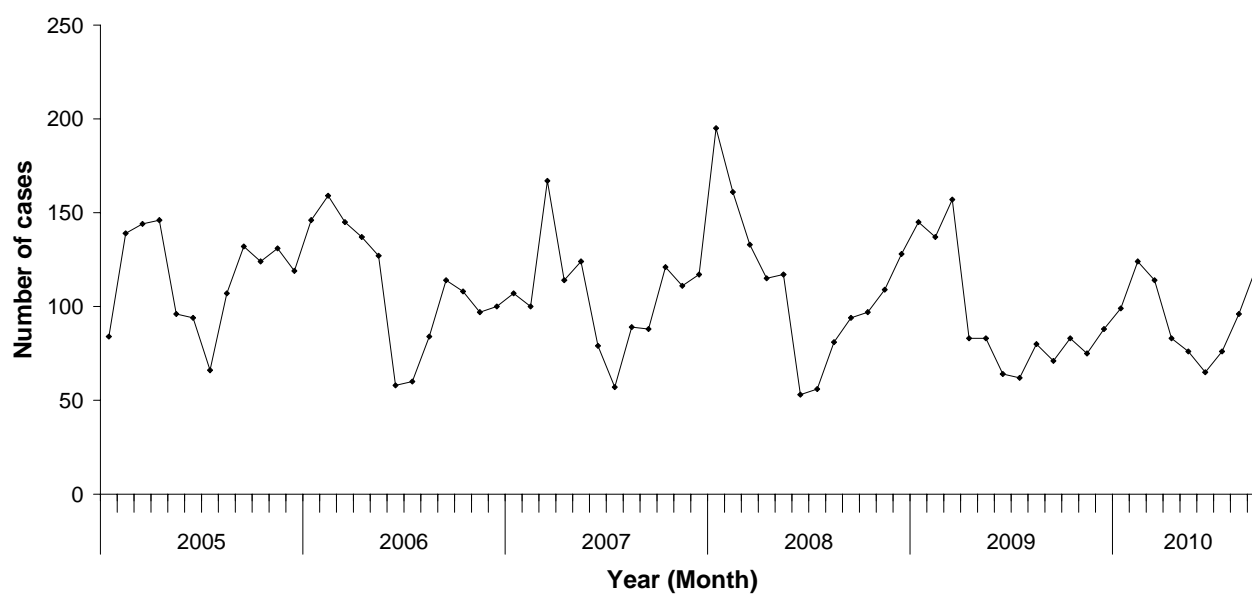


Figure 2: Salmonellosis notifications by month by year, January 2005 – September 2010



5. Data tables

National Notifiable Disease Surveillance Data September 2010

Disease	Current Year - 2010 ¹			Previous Year - 2009		
	September 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	September 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	665	5268	179.7	574	4688	163.1
Cryptosporidiosis	182	693	23.6	130	530	19.6
Dengue fever	9	38	1.2	2	126	3.7
Gastroenteritis ³	48	349	12.0	145	545	18.4
Giardiasis	176	1565	45.0	135	1263	38.3
Haemophilus influenzae type b	0	7	0.3	0	5	0.2
Hazardous substances injury	0	8	0.4	1	3	0.2
Hepatitis A	7	43	1.3	0	30	1.1
Hepatitis B ⁴	11	44	1.3	5	44	1.2
Hepatitis C ⁴	3	13	0.4	1	26	0.7
Invasive pneumococcal disease ⁵	61	438	13.9	83	536	15.4
Lead absorption	17	138	4.5	24	217	6.4
Legionellosis	27	132	3.6	6	52	1.9
Leptospirosis	9	70	2.3	4	41	1.8
Listeriosis	1	21	0.6	5	23	0.7
Malaria	4	40	1.2	4	40	1.2
Measles	4	49	1.5	39	234	5.5
Meningococcal disease ⁶	5	78	2.4	15	107	3.2
Mumps	2	37	1.3	6	45	1.3
Non seasonal influenza A (H1N1) ⁷	239	1810	43.0	22	3626	84.0
Paratyphoid fever	1	16	0.5	1	20	0.6
Pertussis	69	687	25.3	126	993	27.2
Rheumatic fever	15	128	3.4	12	122	3.5
Rickettsial disease	2	17	0.4	1	4	0.1
Rubella	0	2	0.0	0	4	0.1
Salmonellosis	120	853	25.5	71	882	28.2
Shigellosis	7	97	2.8	7	97	2.8
Tuberculosis disease	43	252	7.3	26	234	7.1
Typhoid fever	0	26	0.7	1	31	0.8
VTEC/STEC infection	12	120	3.5	14	113	3.1
Yersiniosis	37	288	9.2	38	320	9.8

¹ These data are provisional

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

³ Cases of gastroenteritis from a common source or foodborne intoxication

⁴ Only acute cases of this disease are currently notifiable

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

⁶ These totals and rates are derived from the EpiSurv report date as opposed to the earliest available date used in the meningococcal disease section of this report

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

Other notifiable infectious disease reported in September: Brucellosis (1) , Cholera (1) , Hepatitis NOS (1) , Toxic shellfish poisoning (1)

Notifiable Disease Surveillance Data by District Health Board September 2010

		Cases ¹ and current rate ² for September 2010 by District Health Board ³																				
Disease		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Otago	Southland
Campylobacteriosis	Cases	19	57	52	38	96	26	30	3	42	34	11	18	19	41	4	17	9	92	12	25	20
	Rate	116.9	178.7	170.0	138.7	200.3	198.4	164.6	108.2	273.5	228.7	202.7	156.7	259.3	232.2	230.2	152.8	187.2	164.0	216.0	165.0	180.6
Cryptosporidiosis	Cases	14	9	5	6	58	2	4	4	9	7	1	5	2	3	1	4	1	21	21	3	2
	Rate	30.2	16.5	15.8	8.5	41.7	10.8	8.7	21.6	27.7	26.0	11.1	10.8	8.4	19.1	25.0	30.0	64.4	46.4	82.8	22.3	25.0
Dengue fever	Cases	1	1	3	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0
	Rate	1.3	1.1	2.7	0.8	1.9	0.0	1.9	2.2	0.0	0.0	1.6	0.6	0.7	2.4	0.0	0.0	0.0	0.6	0.0	1.1	0.0
Gastroenteritis	Cases	0	0	1	1	6	0	1	0	1	0	0	1	5	16	0	1	6	7	0	1	1
	Rate	2.6	9.3	18.2	6.0	7.2	6.9	3.4	0.0	6.5	4.5	22.2	35.0	32.2	25.7	5.0	2.2	79.8	11.0	0.0	8.5	4.5
Giardiasis	Cases	7	18	29	31	8	4	8	0	1	5	0	0	5	14	1	5	1	28	1	4	6
	Rate	33.4	44.3	65.5	43.8	44.7	47.2	32.3	32.5	33.3	59.8	42.8	18.1	32.9	53.5	47.5	38.0	33.8	55.6	30.6	31.8	34.0
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	0
	Rate	0.0	0.4	0.0	0.6	1.1	0.0	0.0	0.0	0.0	0.0	1.6	0.6	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Hazardous substances injury	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis A	Cases	0	1	0	1	1	0	0	1	0	1	1	0	0	0	0	0	0	1	0	0	0
	Rate	0.6	0.6	2.5	2.1	1.4	1.0	1.0	2.2	0.0	1.9	1.6	1.8	1.4	0.3	0.0	0.0	0.0	1.8	0.0	1.6	0.9
Hepatitis B	Cases	0	0	0	1	0	4	3	0	0	1	1	0	0	0	0	0	0	1	0	0	0
	Rate	1.3	0.4	2.0	1.9	0.6	4.9	2.4	6.5	0.0	1.3	1.6	0.6	0.7	0.7	5.0	0.7	0.0	1.2	0.0	1.1	0.0
Hepatitis C	Cases	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	0.6	0.2	0.7	0.4	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	1.4	1.0	0.0	0.0	0.0	0.0	1.8	0.5	0.9
Invasive pneumococcal disease ⁴	Cases	2	8	6	7	11	2	4	0	0	1	0	1	6	3	0	1	0	1	0	4	4
	Rate	15.4	12.7	10.1	22.4	15.6	23.6	22.1	4.3	10.2	16.9	14.3	9.6	16.1	9.0	20.0	3.7	3.1	9.6	1.8	16.4	19.7
Lead absorption	Cases	2	2	1	1	1	0	0	0	0	1	0	0	0	2	0	0	0	1	1	5	0
	Rate	3.2	2.8	2.9	2.3	4.4	5.9	3.4	8.7	0.9	5.2	9.5	6.0	9.8	3.1	2.5	6.6	0.0	5.2	18.0	11.1	0.9
Legionellosis	Cases	3	6	4	3	1	0	0	0	0	0	0	1	0	0	0	0	0	5	1	3	0
	Rate	9.6	4.7	5.2	4.4	0.8	0.0	2.9	2.2	1.8	2.6	0.0	1.8	2.8	1.0	0.0	0.0	12.3	5.8	5.4	1.6	4.5
Leptospirosis	Cases	1	0	0	1	1	0	0	0	0	1	1	0	0	0	2	1	1	0	0	0	0
	Rate	1.9	0.2	0.2	0.4	6.7	1.0	1.9	0.0	2.8	6.5	7.9	7.8	0.0	0.0	7.5	2.9	24.5	2.0	1.8	0.5	3.6
Listeriosis	Cases	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	1.1	0.8	0.3	0.0	1.0	4.3	0.9	0.0	0.0	1.8	0.7	0.3	0.0	0.0	3.1	0.0	0.0	1.6	0.0
Malaria	Cases	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	Rate	0.0	1.1	2.7	2.1	0.3	0.0	1.9	0.0	1.8	0.6	0.0	0.0	0.0	0.7	2.5	1.5	0.0	1.4	0.0	0.5	0.9
Measles	Cases	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
	Rate	21.2	0.4	1.6	0.4	0.0	1.0	0.5	2.2	0.0	0.6	0.0	1.8	0.0	0.7	0.0	0.7	18.4	0.4	0.0	0.5	0.0
Meningococcal disease ⁵	Cases	0	2	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0
	Rate	4.5	1.5	1.6	3.9	1.7	2.0	3.9	6.5	2.8	3.9	1.6	5.4	4.2	1.7	0.0	0.7	0.0	1.4	0.0	1.6	2.7
Mumps	Cases	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.9	1.7	0.5	1.5	0.6	1.0	0.5	0.0	3.7	0.0	0.0	0.0	2.8	1.7	5.0	1.5	0.0	1.8	1.8	1.6	0.0
Non seasonal influenza A (H1N1) ⁶	Cases	3	5	9	11	35	29	19	3	1	8	4	4	6	14	1	8	4	61	7	4	3
	Rate	40.4	23.1	32.4	38.8	73.6	120.8	93.4	28.1	46.2	35.1	52.3	36.2	14.7	39.9	30.0	22.7	55.2	55.2	77.4	10.6	8.0
Paratyphoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	0.0	0.0	1.6	0.4	0.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Pertussis	Cases	0	8	12	4	2	3	3	0	0	2	0	3	2	9	0	2	0	8	1	4	6
	Rate	7.1	15.3	14.9	17.0	45.6	9.8	25.0	30.3	44.3	11.7	7.9	22.3	30.1	44.8	35.0	27.0	46.0	41.8	30.6	8.0	21.5
Rheumatic fever	Cases	2	2	1	1	1	0	1	0	1	2	0	1	2	0	1	0	0	0	0	0	0
	Rate	9.6	1.7	2.3	10.2	5.8	2.9	2.9	13.0	1.8	5.2	1.6	1.8	2.8	2.1	5.0	0.0	0.0	0.2	0.0	0.0	0.0
Rickettsial disease	Cases	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.9	0.5	0.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmonellosis	Cases	1	8	7	6	9	2	8	1	3	7	1	2	3	7	3	1	2	21	5	13	10
	Rate	24.4	18.7	21.6	16.6	25.0	16.7	24.6	32.5	23.1	24.7	11.1	17.5	22.4	18.7	32.5	32.9	36.8	32.9	68.4	57.8	41.1
Shigellosis	Cases	0	1	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	Rate	4.5	3.8	3.4	4.2	3.3	0.0	3.4	0.0	0.0	3.2	0.0	0.0	2.1	1.7	0.0	2.2	3.1	2.6	3.6	2.7	0.9
Tuberculosis disease	Cases	1	1	6	9	3	1	6	0	0	1	0	1	2	6	0	1	0	3	1	1	0
	Rate	4.5	7.0	13.5	13.9	5.8	2.9	6.3	19.5	0.9	5.8	3.2	5.4	7.0	8.0	2.5	4.4	9.2	4.8	5.4	3.2	2.7
Typhoid fever	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	0.8	1.8	1.5	0.6	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.4	0.0	0.0	0.0
VTEC/STEC infection	Cases	2	1	1	1	2	2	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0
	Rate	2.6	2.6	1.8	1.5	7.2	6.9	7.7	6.5	8.3	3.9	3.2	1.2	0.0	1.0	7.5	1.5	3.1	5.8	1.8	2.1	2.7
Yersiniosis	Cases	0	3	5	6	4	2	2	0	3	1	0	1	3	2	0	0	0	3	1	0	1
	Rate	4.5	9.8	10.8	7.9	6.4	9.8	5.3	8.7	10.2	13.6	4.8	4.8	16.1	19.4	2.5	3.7	24.5	8.8	18.0	5.3	4.5

¹ These data are provisional

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

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

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

⁵ These totals and rates are derived from the EpiSurv report date as opposed to the earliest available date used in the meningococcal disease section of this report

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

Notifiable Disease Surveillance Data by District Health Board September 2010

		Cases ¹ and current rate ² for September 2010 by District Health Board ³																				
Disease		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Otago	Southland
Campylobacteriosis	Cases	19	57	52	38	96	26	30	3	42	34	11	18	19	41	4	17	9	92	12	25	20
	Rate	116.9	178.7	170.0	138.7	200.3	198.4	164.6	108.2	273.5	228.7	202.7	156.7	259.3	232.2	230.2	152.8	187.2	164.0	216.0	165.0	180.6
Cryptosporidiosis	Cases	14	9	5	6	58	2	4	4	9	7	1	5	2	3	1	4	1	21	21	3	2
	Rate	30.2	16.5	15.8	8.5	41.7	10.8	8.7	21.6	27.7	26.0	11.1	10.8	8.4	19.1	25.0	30.0	64.4	46.4	82.8	22.3	25.0
Dengue fever	Cases	1	1	3	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0
	Rate	1.3	1.1	2.7	0.8	1.9	0.0	1.9	2.2	0.0	0.0	1.6	0.6	0.7	2.4	0.0	0.0	0.0	0.6	0.0	1.1	0.0
Gastroenteritis	Cases	0	0	1	1	6	0	1	0	1	0	0	1	5	16	0	1	6	7	0	1	1
	Rate	2.6	9.3	18.2	6.0	7.2	6.9	3.4	0.0	6.5	4.5	22.2	35.0	32.2	25.7	5.0	2.2	79.8	11.0	0.0	8.5	4.5
Giardiasis	Cases	7	18	29	31	8	4	8	0	1	5	0	0	5	14	1	5	1	28	1	4	6
	Rate	33.4	44.3	65.5	43.8	44.7	47.2	32.3	32.5	33.3	59.8	42.8	18.1	32.9	53.5	47.5	38.0	33.8	55.6	30.6	31.8	34.0
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	0
	Rate	0.0	0.4	0.0	0.6	1.1	0.0	0.0	0.0	0.0	0.0	1.6	0.6	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Hazardous substances injury	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis A	Cases	0	1	0	1	1	0	0	1	0	1	1	0	0	0	0	0	0	1	0	0	0
	Rate	0.6	0.6	2.5	2.1	1.4	1.0	1.0	2.2	0.0	1.9	1.6	1.8	1.4	0.3	0.0	0.0	0.0	1.8	0.0	1.6	0.9
Hepatitis B	Cases	0	0	0	1	0	4	3	0	0	1	1	0	0	0	0	0	0	1	0	0	0
	Rate	1.3	0.4	2.0	1.9	0.6	4.9	2.4	6.5	0.0	1.3	1.6	0.6	0.7	0.7	5.0	0.7	0.0	1.2	0.0	1.1	0.0
Hepatitis C	Cases	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	0.6	0.2	0.7	0.4	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	1.4	1.0	0.0	0.0	0.0	0.0	1.8	0.5	0.9
Invasive pneumococcal disease ⁴	Cases	2	8	6	7	11	2	4	0	0	1	0	1	6	3	0	1	0	1	0	4	4
	Rate	15.4	12.7	10.1	22.4	15.6	23.6	22.1	4.3	10.2	16.9	14.3	9.6	16.1	9.0	20.0	3.7	3.1	9.6	1.8	16.4	19.7
Lead absorption	Cases	2	2	1	1	1	0	0	0	0	1	0	0	0	2	0	0	0	1	1	5	0
	Rate	3.2	2.8	2.9	2.3	4.4	5.9	3.4	8.7	0.9	5.2	9.5	6.0	9.8	3.1	2.5	6.6	0.0	5.2	18.0	11.1	0.9
Legionellosis	Cases	3	6	4	3	1	0	0	0	0	0	0	1	0	0	0	0	0	5	1	3	0
	Rate	9.6	4.7	5.2	4.4	0.8	0.0	2.9	2.2	1.8	2.6	0.0	1.8	2.8	1.0	0.0	0.0	12.3	5.8	5.4	1.6	4.5
Leptospirosis	Cases	1	0	0	1	1	0	0	0	0	1	1	0	0	0	2	1	1	0	0	0	0
	Rate	1.9	0.2	0.2	0.4	6.7	1.0	1.9	0.0	2.8	6.5	7.9	7.8	0.0	0.0	7.5	2.9	24.5	2.0	1.8	0.5	3.6
Listeriosis	Cases	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	1.1	0.8	0.3	0.0	1.0	4.3	0.9	0.0	0.0	1.8	0.7	0.3	0.0	0.0	3.1	0.0	0.0	1.6	0.0
Malaria	Cases	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	Rate	0.0	1.1	2.7	2.1	0.3	0.0	1.9	0.0	1.8	0.6	0.0	0.0	0.0	0.7	2.5	1.5	0.0	1.4	0.0	0.5	0.9
Measles	Cases	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
	Rate	21.2	0.4	1.6	0.4	0.0	1.0	0.5	2.2	0.0	0.6	0.0	1.8	0.0	0.7	0.0	0.7	18.4	0.4	0.0	0.5	0.0
Meningococcal disease ⁵	Cases	0	2	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0
	Rate	4.5	1.5	1.6	3.9	1.7	2.0	3.9	6.5	2.8	3.9	1.6	5.4	4.2	1.7	0.0	0.7	0.0	1.4	0.0	1.6	2.7
Mumps	Cases	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.9	1.7	0.5	1.5	0.6	1.0	0.5	0.0	3.7	0.0	0.0	0.0	2.8	1.7	5.0	1.5	0.0	1.8	1.8	1.6	0.0
Non seasonal influenza A (H1N1) ⁶	Cases	3	5	9	11	35	29	19	3	1	8	4	4	6	14	1	8	4	61	7	4	3
	Rate	40.4	23.1	32.4	38.8	73.6	120.8	93.4	28.1	46.2	35.1	52.3	36.2	14.7	39.9	30.0	22.7	55.2	55.2	77.4	10.6	8.0
Paratyphoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	0.0	0.0	1.6	0.4	0.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Pertussis	Cases	0	8	12	4	2	3	3	0	0	2	0	3	2	9	0	2	0	8	1	4	6
	Rate	7.1	15.3	14.9	17.0	45.6	9.8	25.0	30.3	44.3	11.7	7.9	22.3	30.1	44.8	35.0	27.0	46.0	41.8	30.6	8.0	21.5
Rheumatic fever	Cases	2	2	1	1	1	0	1	0	1	2	0	1	2	0	1	0	0	0	0	0	0
	Rate	9.6	1.7	2.3	10.2	5.8	2.9	2.9	13.0	1.8	5.2	1.6	1.8	2.8	2.1	5.0	0.0	0.0	0.2	0.0	0.0	0.0
Rickettsial disease	Cases	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.9	0.5	0.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmonellosis	Cases	1	8	7	6	9	2	8	1	3	7	1	2	3	7	3	1	2	21	5	13	10
	Rate	24.4	18.7	21.6	16.6	25.0	16.7	24.6	32.5	23.1	24.7	11.1	17.5	22.4	18.7	32.5	32.9	36.8	32.9	68.4	57.8	41.1
Shigellosis	Cases	0	1	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0
	Rate	4.5	3.8	3.4	4.2	3.3	0.0	3.4	0.0	0.0	3.2	0.0	0.0	2.1	1.7	0.0	2.2	3.1	2.6	3.6	2.7	0.9
Tuberculosis disease	Cases	1	1	6	9	3	1	6	0	0	1	0	1	2	6	0	1	0	3	1	1	0
	Rate	4.5	7.0	13.5	13.9	5.8	2.9	6.3	19.5	0.9	5.8	3.2	5.4	7.0	8.0	2.5	4.4	9.2	4.8	5.4	3.2	2.7
Typhoid fever	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	0.8	1.8	1.5	0.6	0.0	1.4	0.0	0.0	0.0	0.0	0									

¹ These data are provisional

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

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

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

⁵ These totals and rates are derived from the EpiSurv report date as opposed to the earliest available date used in the meningococcal disease section of this report

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

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

Disease	Cases for the 12 months ending September 2010 ^{1 2} by District Health Board ³																					
	Total	Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Otago	Southland
Campylobacteriosis	7757	182	944	755	668	721	202	342	50	296	352	128	260	370	669	92	209	61	823	120	311	202
Cryptosporidiosis	1017	47	87	70	41	150	11	18	10	30	40	7	18	12	55	10	41	21	233	46	42	28
Dengue fever	51	2	6	12	4	7	0	4	1	0	0	1	1	1	7	0	0	0	3	0	2	0
Gastroenteritis	516	4	49	81	29	26	7	7	0	7	7	14	58	46	74	2	3	26	55	0	16	5
Giardiasis	1941	52	234	291	211	161	48	67	15	36	92	27	30	47	154	19	52	11	279	17	60	38
Haemophilus influenzae type b	12	0	2	0	3	4	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0
Hazardous substances injury	16	0	5	3	0	0	0	0	0	0	5	0	0	0	3	0	0	0	0	0	0	0
Hepatitis A	57	1	3	11	10	5	1	2	1	0	3	1	3	2	1	0	0	0	9	0	3	1
Hepatitis B	55	2	2	9	9	2	5	5	3	0	2	1	1	1	2	2	1	0	6	0	2	0
Hepatitis C	19	1	1	3	2	0	0	0	0	4	0	0	0	2	3	0	0	0	0	1	1	1
Invasive pneumococcal disease ⁴	599	24	67	45	108	56	24	46	2	11	26	9	16	23	26	8	5	1	48	1	31	22
Lead absorption	193	5	15	13	11	16	6	7	4	1	8	6	10	14	9	1	9	0	26	10	21	1
Legionellosis	154	15	25	23	21	3	0	6	1	2	4	0	3	4	3	0	0	4	29	3	3	5
Leptospirosis	98	3	1	1	2	24	1	4	0	3	10	5	13	0	0	3	4	8	10	1	1	4
Listeriosis	26	1	1	5	4	1	0	2	2	1	0	0	3	1	1	0	0	1	0	0	3	0
Malaria	50	0	6	12	10	1	0	4	0	2	1	0	0	0	2	1	2	0	7	0	1	1
Measles	63	33	2	7	2	0	1	1	1	0	1	0	3	0	2	0	1	6	2	0	1	0
Meningococcal disease ⁵	104	7	8	7	19	6	2	8	3	3	6	1	9	6	5	0	1	0	7	0	3	3
Mumps	55	3	9	2	7	2	1	1	0	4	0	0	0	4	5	2	2	0	9	1	3	0
Non seasonal influenza A (H1N1) ⁶	1854	63	122	144	187	265	123	194	13	50	54	33	60	21	115	12	31	18	277	43	20	9
Paratyphoid fever	21	0	0	7	2	1	3	0	0	0	0	0	0	1	6	0	0	0	1	0	0	0
Pertussis	1092	11	81	66	82	164	10	52	14	48	18	5	37	43	129	14	37	15	210	17	15	24
Rheumatic fever	146	15	9	10	49	21	3	6	6	2	8	1	3	4	6	2	0	0	1	0	0	0
Rickettsial disease	18	1	5	2	1	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Salmonellosis	1099	38	99	96	80	90	17	51	15	25	38	7	29	32	54	13	45	12	165	38	109	46
Shigellosis	119	7	20	15	20	12	0	7	0	0	5	0	0	3	5	0	3	1	13	2	5	1
Tuberculosis disease	317	7	37	60	67	21	3	13	9	1	9	2	9	10	23	1	6	3	24	3	6	3
Typhoid fever	29	1	4	8	7	2	0	3	0	0	0	0	0	0	2	0	0	0	2	0	0	0
VTEC/STEC infection	150	4	14	8	7	26	7	16	3	9	6	2	2	0	3	3	2	1	29	1	4	3
Yersiniosis	398	7	52	48	38	23	10	11	4	11	21	3	8	23	56	1	5	8	44	10	10	5
Total	18028	536	1911	1814	1701	1819	485	877	157	546	716	254	577	670	1421	186	459	197	2313	314	673	402

¹ These data are provisional

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

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

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

⁵ These totals and rates are derived from the EpiSurv report date as opposed to the earliest available date used in the meningococcal disease section of this report

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

National Notifiable Disease Surveillance Data September 2010

Disease	Current Year - 2010 ¹			Previous Year - 2009		
	September 2010 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	September 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	665	5268	179.7	574	4688	163.1
Cryptosporidiosis	182	693	23.6	130	530	19.6
Dengue fever	9	38	1.2	2	126	3.7
Gastroenteritis ³	48	349	12.0	145	545	18.4
Giardiasis	176	1565	45.0	135	1263	38.3
Haemophilus influenzae type b	0	7	0.3	0	5	0.2
Hazardous substances injury	0	8	0.4	1	3	0.2
Hepatitis A	7	43	1.3	0	30	1.1
Hepatitis B ⁴	11	44	1.3	5	44	1.2
Hepatitis C ⁴	3	13	0.4	1	26	0.7
Invasive pneumococcal disease ⁵	61	438	13.9	83	536	15.4
Lead absorption	17	138	4.5	24	217	6.4
Legionellosis	27	132	3.6	6	52	1.9
Leptospirosis	9	70	2.3	4	41	1.8
Listeriosis	1	21	0.6	5	23	0.7
Malaria	4	40	1.2	4	40	1.2
Measles	4	49	1.5	39	234	5.5
Meningococcal disease ⁶	5	78	2.4	15	107	3.2
Mumps	2	37	1.3	6	45	1.3
Non seasonal influenza A (H1N1) ⁷	239	1810	43.0	22	3626	84.0
Paratyphoid fever	1	16	0.5	1	20	0.6
Pertussis	69	687	25.3	126	993	27.2
Rheumatic fever	15	128	3.4	12	122	3.5
Rickettsial disease	2	17	0.4	1	4	0.1
Rubella	0	2	0.0	0	4	0.1
Salmonellosis	120	853	25.5	71	882	28.2
Shigellosis	7	97	2.8	7	97	2.8
Tuberculosis disease	43	252	7.3	26	234	7.1
Typhoid fever	0	26	0.7	1	31	0.8
VTEC/STEC infection	12	120	3.5	14	113	3.1
Yersiniosis	37	288	9.2	38	320	9.8

¹ These data are provisional

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

³ Cases of gastroenteritis from a common source or foodborne intoxication

⁴ Only acute cases of this disease are currently notifiable

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

⁶ These totals and rates are derived from the EpiSurv report date as opposed to the earliest available date used in the meningococcal disease section of this report

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

Other notifiable infectious disease reported in September: Brucellosis (1) , Cholera (1) , Hepatitis NOS (1) , Toxic shellfish poisoning (1)