

APPENDIX: NATIONAL DATA AND TRENDS

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Comparison of notifiable disease cases and rates for 2010 and 2011

Table 40. Numbers of cases and rates per 100 000 population for common (10 or more cases reported per year) notifiable diseases in New Zealand, 2010–2011

Disease	2010		2011		Change ^{d,e}
	Cases	Rate	Cases	Rate	
AIDS ^a	39	0.9	24	0.5	←
Campylobacteriosis	7 346	168.2	6 692	151.9	←
Cryptosporidiosis	954	21.8	610	13.8	←
Dengue fever	50	1.1	42	1.0	←
Gastroenteritis ^b	491	11.2	630	14.3	→
Giardiasis	1 985	45.4	1 935	43.9	←
Hepatitis A	46	1.1	26	0.6	←
Hepatitis B ^c	51	1.2	49	1.1	←
Hepatitis C ^c	17	0.4	27	0.6	→
Invasive pneumococcal disease	535	12.2	552	12.5	→
Lead absorption	232	5.3	230	5.2	←
Legionellosis	173	4.0	159	3.6	←
Leptospirosis	80	1.8	70	1.6	←
Listeriosis	23	0.5	26	0.6	→
Malaria	44	1.0	52	1.2	→
Measles	48	1.1	597	13.6	→
Meningococcal disease	97	2.2	119	2.7	→
Mumps	41	0.9	51	1.2	→
Paratyphoid fever	19	0.4	12	0.3	←
Pertussis	872	20.0	1 998	45.4	→
Rheumatic fever	167	3.8	164	3.7	←
Salmonellosis	1 146	26.2	1 056	24.0	←
Shigellosis	104	2.4	101	2.3	←
Tuberculosis disease	304	7.0	312	7.1	→
Typhoid fever	31	0.7	45	1.0	→
VTEC/STEC infection	138	3.2	154	3.5	→
Yersiniosis	406	9.3	514	11.7	→

^a Data source [35]

^b Cases of acute gastroenteritis from a common source or foodborne intoxication eg, staphylococcal intoxication.

^c Only acute cases of this disease are notifiable.

^d ← = significant decrease, → = significant increase, -- = no change, ← = not significant decrease, → = not significant increase

^e Fisher's exact tests were used to determine statistical significance. P-values less than 0.05 are considered to be significant at the 95% level of confidence.

Comparison of notifiable disease cases and rates for 2010 and 2011

Table 41. Numbers of cases for rare (less than 10 cases reported per year) notifiable diseases in New Zealand, 2010–2011

Disease ^a	2010	2011
Brucellosis	1	0
Chemical poisoning from the environment	3	3
Chikungunya fever	0	1
Cholera	2	0
<i>Enterobacter sakazakii</i> invasive disease	2	0
<i>Haemophilus influenzae</i> type b disease	8	8
Hepatitis NOS	3	7
Hydatid disease	4	6
Leprosy	3	1
Non-seasonal influenza ^b	1 826	0
Rickettsial disease	14	6
Ross River virus infection	5	3
Rubella	4	23
Taeniasis	3	10
Tetanus	7	0
Toxic shellfish poisoning	9	3

^a No cases of the following notifiable diseases were reported in 2010 and 2011: anthrax, Barmah Forest virus infection, congenital rubella, cysticercosis, decompression sickness, HPAI, plague, poliomyelitis, primary amoebic meningo-encephalitis, rabies, SARS, trichinosis, viral haemorrhagic fever and yellow fever.

^b Non-seasonal influenza became notifiable on 26 April 2009. Influenza A(H1N1)pdm09 virus was classified as seasonal influenza from 1 January 2011.

Deaths from notifiable diseases in EpiSurv, 1997–2011

Table 42. Deaths due to notifiable diseases recorded in EpiSurv, 1997–2011

Disease	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
AIDS ^a	34	19	18	19	14	11	10	13	15	14	5	2	2	8	1
Campylobacteriosis	2	2	1	3	1	1	0	0	1	1	1	0	0	0	0
Chemical poisoning from the environment	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Creutzfeldt-Jakob disease ^b	3	0	2	3	1	3	4	3	0	5	0	0	0	0	0
Gastroenteritis ^c	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Giardiasis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Haemophilus influenzae</i> type b disease	1	0	0	0	1	1	2	0	0	0	0	0	0	1	0
Hepatitis B	2	0	0	0	1	0	0	0	1	0	1	0	0	0	0
Hydatid disease	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Invasive pneumococcal disease ^c												8	35	27	32
Legionellosis ^d	4	1	1	5	2	3	1	1	4	3	1	4	2	5	4
Listeriosis - non perinatal	2	0	1	2	1	0	2	3	1	0	2	3	2	3	1
Listeriosis - perinatal	6	0	2	4	1	3	2	2	0	1	2	2	2	4	0
Malaria	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meningococcal disease	24	23	23	17	26	18	13	8	14	7	7	8	5	6	13
Non seasonal influenza ^f													35	16	0
Pertussis	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1
Primary amoebic meningoencephalitis	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmonellosis	2	2	1	7	2	1	0	0	1	1	1	1	1	0	0
Shigellosis	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Tetanus	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0
Tuberculosis disease	15	8	14	8	2	6	6	6	4	5	3	4	4	9	2
VTEC/STEC infection	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0
Yersiniosis	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0

^a Data source [35]^b Data source [17]^c Cases of acute gastroenteritis from a common source or foodborne intoxication eg, staphylococcal intoxication.^d Invasive pneumococcal disease became notifiable on 17 October 2008.^e One further legionellosis death occurred in a laboratory-reported but non-notified case in 2002.^f Non-seasonal influenza became notifiable on 26 April 2009. Deaths recorded in 2009 and 2010 were due to influenza A(H1N1)pdm09. Influenza A(H1N1)pdm09 virus was re-classified as seasonal influenza from 1 January 2011.

Note: The numbers in this table are those recorded in EpiSurv where the notifiable disease was the primary cause of death. Information on deaths is most likely to be reported by public health services when it occurs close to the time of notification and investigation.

Mortality data for selected notifiable diseases, 2007–2009 (Ministry of Health, NMDS)

Table 43. Reported deaths from selected notifiable diseases, 2007–2009

Disease	ICD 10 codes	2007		2008		2009	
		Und ^b	Cont ^c	Und ^b	Cont ^c	Und ^b	Cont ^c
AIDS	B20-B24	10	8	7	3	10	8
Campylobacteriosis	A04.5	1			4	1	
Creutzfeldt-Jakob disease	A81.0	7		2		7	1
Dengue fever	A90, A91			1			
Hepatitis A	B15		2		1		
Hepatitis B	B16	2	3	1	3	1	1
Hepatitis C	B17.1				5	1	2
Hydatid disease	B67				1		
Legionellosis	A48.1	1		3	2	3	
Listeriosis	A32	2		1	1	3	3
Meningococcal disease	A39	7		8		4	
Rheumatic fever	I00, I01, I02					1	
Salmonellosis	A02			1	2	1	4
Shigellosis	A03			1			
Tetanus	A33-A35	1					
Tuberculosis	A15-A19, P37.0	7	8	8	11	8	24
Yersiniosis	A04.6			1	1	1	

^a Latest year that data are available

^b Underlying – main cause of death

^c Contributory – selected contributory cause of death (not main cause of death)

Morbidity data for selected notifiable diseases, 2009–2011 (Ministry of Health, NMDS)

Table 44. Hospital admissions for selected notifiable diseases, 2009–2011

Disease	ICD 10 codes	2009		2010		2011	
		Prin ^a	Oth ^b	Prin ^a	Oth ^b	Prin ^a	Oth ^b
AIDS	B20-B24	16	285	16	297	13	242
Arboviral diseases	A83, A84, A85.2, A92, A93, A94, B33.1	1	0	1	0	0	0
Brucellosis	A23	0	0	0	0	0	0
Campylobacteriosis	A04.5	473	101	518	106	443	131
Cholera	A00	0	0	1	0	1	0
Creutzfeldt-Jakob disease	A81.0	4	0	5	2	4	4
Cryptosporidiosis	A07.2	19	4	16	14	16	2
Cysticercosis	B69	1	2	4	1	0	0
Decompression sickness	T70.3	24	3	18	2	33	4
Dengue fever	A90, A91	22	3	15	2	15	0
Diphtheria	A36	0	0	2	0	0	0
Giardiasis	A07.1	21	13	18	15	35	25
Hepatitis A	B15	17	7	20	10	7	11
Hepatitis B	B16	27	27	25	23	27	33
Hepatitis C	B17.1	15	29	13	10	9	31
Hydatid disease	B67	2	1	1	0	1	0
Lead absorption	T56.0	5	0	6	0	5	1
Legionellosis	A48.1	33	9	68	11	61	21
Leprosy	A30	0	1	1	3	1	1
Leptospirosis	A27	46	3	57	3	49	5
Listeriosis	A32	11	17	13	18	11	18
Malaria	B50-B54	34	2	40	2	42	1
Measles	B05	29	1	5	0	132	10
Meningococcal disease	A39	167	23	112	22	122	21
Mumps	B26	9	3	10	3	13	1
Paratyphoid	A01.1-A01.4	3	0	6	1	5	0
Pertussis	A37	124	19	132	23	143	17
Poliomyelitis	A80	0	0	0	0	0	0
Rheumatic fever	I00, I01, I02	230	35	254	55	257	43
Rickettsial diseases	A75, A77, A78, A79	6	3	7	1	8	1
Rubella	B06	0	1	1	1	1	2
Salmonellosis	A02	130	28	120	49	106	29
Shigellosis	A03	14	5	21	4	22	6
Taeniasis	B689	0	0	0	1	0	1
Tetanus	A33-A35	1	0	7	1	3	2
Tuberculosis	A15-A19, P37.0	237	146	255	159	223	106
Typhoid	A01.0	25	1	34	1	34	5
VTEC/STEC infection	A04.0-A04.4	24	11	35	24	50	23
Yersiniosis	A04.6	24	22	13	14	16	23

^a Principal diagnosis^b Other relevant diagnosis

Note: Hospital admission data may include multiple admissions (to the same or different hospitals) for the same case and admissions may relate to cases first diagnosed in previous years.

Notifiable disease cases and rates by District Health Board, 2011

Table 45a. Number of cases and rate per 100 000 population of notifiable diseases by DHB, 2011

Disease	District Health Board ^a																			
	Northland		Waitemata		Auckland		Counties Manukau		Waikato		Lakes		Bay of Plenty		Tairāwhiti		Taranaki		Hawke's Bay	
	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate
Campylobacteriosis	225	142.3	764	140.0	543	118.9	503	100.6	687	186.8	140	135.9	292	137.8	56	120.2	179	162.9	325	208.6
Cryptosporidiosis	28	17.7	41	7.5	30	6.6	35	7.0	141	38.3	16	15.5	23	10.9	4		21	19.1	16	10.3
Dengue fever	0		3		10	2.2	7	1.4	3		3		1		1		0		0	
Gastroenteritis ^b	0		61	11.2	60	13.1	47	9.4	15	4.1	12	11.7	24	11.3	3		11	10.0	1	
Giardiasis	64	40.5	201	36.8	269	58.9	195	39.0	179	48.7	46	44.7	121	57.1	8	17.2	21	19.1	70	44.9
Hepatitis A	0		3		8	1.8	5	1.0	3		0		1		0		0		2	
Hepatitis B	2		6	1.1	10	2.2	5	1.0	2		4		3		4		0		1	
Invasive pneumococcal disease	21	13.3	60	11.0	52	11.4	75	15.0	46	12.5	29	28.2	29	13.7	5	10.7	11	10.0	26	16.7
Lead absorption	1		31	5.7	47	10.3	38	7.6	12	3.3	2		3		3		5	4.6	10	6.4
Legionellosis	6	3.8	19	3.5	10	2.2	12	2.4	6	1.6	0		4		0		3		3	
Leptospirosis	8	5.1	2		2		4		4		0		2		3		2		11	7.1
Malaria	1		7	1.3	16	3.5	7	1.4	3		0		4		0		2		1	
Measles	4		179	32.8	211	46.2	78	15.6	30	8.2	5	4.9	7	3.3	3		2		26	16.7
Meningococcal disease	13	8.2	9	1.6	7	1.5	17	3.4	13	3.5	7	6.8	4		1		3		4	
Mumps	1		2		10	2.2	6	1.2	1		0		3		0		1		2	
Pertussis	10	6.3	75	13.7	55	12.0	50	10.0	87	23.7	13	12.6	34	16.0	38	81.5	30	27.3	121	77.7
Rheumatic fever	19	12.0	5	0.9	14	3.1	49	9.8	13	3.5	8	7.8	8	3.8	7	15.0	0		5	3.2
Salmonellosis	36	22.8	97	17.8	99	21.7	65	13	108	29.4	31	30.1	32	15.1	16	34.3	17	15.5	24	15.4
Shigellosis	1		26	4.8	21	4.6	24	4.8	5	1.4	2		3		1		1		1	
Tuberculosis disease	6	3.8	37	6.8	80	17.5	50	10	19	5.2	2		14	6.6	3		1		17	10.9
Typhoid fever	0		15	2.7	11	2.4	10	2			1		2		0		0		1	
VTEC/STEC infection	8	5.1	9	1.6	10	2.2	16	3.2	30	8.2	5	4.9	8	3.8	2		9	8.2	4	
Yersiniosis	8	5.1	77	14.1	67	14.7	53	10.6	84	22.8	17	16.5	17	8	3		14	12.7	7	4.5

^a Table is continued on following page

^b Cases of acute gastroenteritis from a common source or foodborne intoxication eg, staphylococcal intoxication.

Note: Where fewer than five cases have been notified a rate has not been calculated and the cell has been left blank.

Notifiable disease cases and rates by District Health Board, 2011

Table 45b. Number of cases and rate per 100 000 population of notifiable diseases by DHB, 2011 (continued)

Disease	District Health Board ^a																			
	Whanganui		MidCentral		Hutt Valley		Capital and Coast		Wairarapa		Nelson Marlborough		West Coast		Canterbury		South Canterbury		Southern	
	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate
Campylobacteriosis	75	118.9	239	142.0	223	154.3	529	179.5	89	219.3	199	142.2	56	169.9	881	175.3	126	223.5	561	183.1
Cryptosporidiosis	6	9.5	25	14.9	26	18.0	26	8.8	11	27.1	11	7.9	4		53	10.5	29	51.4	64	20.9
Dengue fever	0		3		0		6	2.0	0		0		1		2		1		1	
Gastroenteritis ^b	10	15.9	98	58.2	44	30.4	91	30.9	3		4		6	18.2	119	23.7	4		17	5.5
Giardiasis	8	12.7	40	23.8	66	45.7	218	74.0	10	24.6	70	50.0	16	48.5	175	34.8	36	63.9	122	39.8
Hepatitis A	0		0		0		1		0		1		0		2		0		0	
Hepatitis B	0		1		3		0		0		1		0		5	1.0	1		1	
Invasive pneumococcal disease	6	9.5	19	11.3	17	11.8	19	6.4	7	17.2	18	12.9	0		67	13.3	8	14.2	37	12.1
Lead absorption	7	11.1	7	4.2	12	8.3	11	3.7	0		7	5.0	3		14	2.8	8	14.2	9	2.9
Legionellosis	1		0		1		2		1		9	6.4	2		65	12.9	1		14	4.6
Leptospirosis	9	14.3	5	3.0	0		1		0		3		2		8	1.6	1		3	
Malaria	0		0		0		1		0		4		0		3		1		2	
Measles	0		1		2		12	4.1	0		1		0		17	3.4	1		18	5.9
Meningococcal disease	3		3		5	3.5	7	2.4	2		2		1		9	1.8	1		8	2.6
Mumps	1		1		2		1		0		10	7.1	0		8	1.6	0		2	
Pertussis	13	20.6	20	11.9	171	118.3	228	77.4	2		444	317.4	237	719.1	292	58.1	17	30.2	61	19.9
Rheumatic fever	3		8	4.8	8	5.5	12	4.1	0		3		0		2		0		0	
Salmonellosis	10	15.9	33	19.6	32	22.1	69	23.4	12	29.6	45	32.2	4		143	28.4	33	58.5	150	48.9
Shigellosis	1		0		0		7	2.4	0		0		0		4		1		3	
Tuberculosis disease	1		12	7.1	10	6.9	37	12.6	0		4		0		14	2.8	1		4	
Typhoid fever	0		2		0		1		0		0		0		2		0		0	
VTEC/STEC infection	0		3		4		5	1.7	1		3		3		24	4.8	4		6	2
Yersiniosis	4		5	3	25	17.3	52	17.6	3		7	5	6	18.2	48	9.5	4		13	4.2

^a Table is continued from previous page

^b Cases of acute gastroenteritis from a common source or foodborne intoxication eg, staphylococcal intoxication.

Note: Where fewer than five cases have been notified a rate has not been calculated and the cell has been left blank.

Notifiable disease cases and rates by sex, 2011

Table 46. Number of cases and rate per 100 000 population of notifiable diseases by sex, 2011

Disease	Sex					
	Male		Female		Total ^a	
	Cases	Rate	Cases	Rate	Cases	Rate
Campylobacteriosis	3 748	173.2	2 876	128.4	6 692	151.9
Cryptosporidiosis	290	13.4	315	14.1	610	13.8
Dengue fever	22	1.0	20	0.9	42	1.0
Gastroenteritis ^b	270	12.5	328	14.6	630	14.3
Giardiasis	933	43.1	984	43.9	1 935	43.9
<i>Haemophilus influenzae</i> type b	4		4		8	0.2
Hepatitis A	16	0.7	9	0.4	26	0.6
Hepatitis B	34	1.6	15	0.7	49	1.1
Hepatitis C	18	0.8	9	0.4	27	0.6
Hepatitis NOS	6	0.3	1		7	0.2
Invasive pneumococcal disease	285	13.2	267	11.9	552	12.5
Lead absorption	202	9.3	28	1.2	230	5.2
Legionellosis	102	4.7	56	2.5	159	3.6
Leptospirosis	63	2.9	7	0.3	70	1.6
Listeriosis - non perinatal	0		4		4	
Malaria	39	1.8	13	0.6	52	1.2
Measles	335	15.5	257	11.5	597	13.6
Meningococcal disease	65	3.0	54	2.4	119	2.7
Mumps	27	1.2	24	1.1	51	1.2
Paratyphoid fever	6	0.3	6	0.3	12	0.3
Pertussis	841	38.9	1 146	51.1	1 998	45.4
Rheumatic fever	91	4.2	71	3.2	164	3.7
Rickettsial disease	4		2		6	0.1
Rubella	16	0.7	7	0.3	23	0.5
Salmonellosis	560	25.9	488	21.8	1 056	24.0
Shigellosis	49	2.3	50	2.2	101	2.3
Taeniasis	6	0.3	4		10	0.2
Tuberculosis disease	159	7.3	151	6.7	312	7.1
Typhoid fever	23	1.1	22	1.0	45	1.0
VTEC/STEC infection	68	3.1	85	3.8	154	3.5
Yersiniosis	261	12.1	248	11.1	514	11.7

^a Total includes cases where sex was unknown.

^b Cases of acute gastroenteritis from a common source or foodborne intoxication eg, staphylococcal intoxication.

Note: Where fewer than five cases have been notified a rate has not been calculated and the cell has been left blank.

Notifiable disease cases and rates by age group, 2011

Table 47. Number of cases and rate per 100 000 population of notifiable diseases by age group, 2011

Disease	Age group (years)																							
	<1		1–4		5–9		10–14		15–19		20–29		30–39		40–49		50–59		60–69		70+		Total ^a	
	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate
Campylobacteriosis	155	248.5	729	289.4	339	118.0	251	85.7	452	142.4	1 076	173.9	724	128.6	821	130.0	761	136.9	683	163.7	689	169.4	6 692	151.9
Cryptosporidiosis	15	24.1	188	74.6	78	27.2	56	19.1	40	12.6	84	13.6	55	9.8	46	7.3	26	4.7	15	3.6	5	1.2	610	13.8
Dengue fever	0		1		1		0		0		7	1.1	11	2.0	7	1.1	7	1.3	6	1.4	2		42	1.0
Gastroenteritis ^b	25	40.1	87	34.5	21	7.3	8	2.7	14	4.4	77	12.4	76	13.5	72	11.4	58	10.4	59	14.1	108	26.5	630	14.3
Giardiasis	38	60.9	408	162.0	139	48.4	48	16.4	26	8.2	175	28.3	443	78.7	287	45.4	168	30.2	149	35.7	52	12.8	1 935	43.9
<i>Haemophilus influenzae</i> type b	2		1		0		0		0		0		0		2		0		0		3		8	0.2
Hepatitis A	0		4		6	2.1	1		0		6	1.0	2		3		0		1		3		26	0.6
Hepatitis B	0		1		0		0		3		15	2.4	8	1.4	11	1.7	8	1.4	3		0		49	1.1
Hepatitis C	1		0		0		0		2		6	1.0	5	0.9	6	0.9	5	0.9	2		0		27	0.6
Invasive pneumococcal disease	23	36.9	25	9.9	16	5.6	13	4.4	11	3.5	33	5.3	38	6.8	42	6.6	78	14.0	84	20.1	189	46.5	552	12.5
Lead absorption	0		6	2.4	1		2		7	2.2	25	4.0	33	5.9	54	8.5	56	10.1	37	8.9	9	2.2	230	5.2
Legionellosis	0		0		0		1		1		4		10	1.8	16	2.5	28	5.0	48	11.5	51	12.5	159	3.6
Leptospirosis	0		0		0		0		1		10	1.6	15	2.7	18	2.8	17	3.1	8	1.9	1		70	1.6
Listeriosis	1		0		0		0		0		2		3		2		3		5	1.2	10	2.5	26	0.6
Malaria	0		0		0		3		7	2.2	26	4.2	7	1.2	5	0.8	3		1		0		52	1.2
Measles	54	86.6	125	49.6	81	28.2	95	32.4	66	20.8	70	11.3	83	14.7	18	2.8	4		1		0		597	13.6
Meningococcal disease	24	38.5	32	12.7	10	3.5	5	1.7	15	4.7	5	0.8	7	1.2	6	0.9	5	0.9	3		7	1.7	119	2.7
Mumps	2		10	4.0	15	5.2	4		1		6	1.0	7	1.2	3		1		1		1		51	1.2
Paratyphoid fever	0		1		0		0		0		7	1.1	1		2		0		1		0		12	0.3
Pertussis	127	203.6	272	108.0	302	105.1	231	78.9	95	29.9	132	21.3	227	40.3	247	39.1	171	30.8	101	24.2	93	22.9	1 998	45.4
Rheumatic fever	0		0		46	16.0	81	27.7	14	4.4	14	2.3	7	1.2	2		0		0		0		164	3.7
Rubella	4		3		2		1		1		8	1.3	2		0		1		1		0		23	0.5
Salmonellosis	72	115.4	175	69.5	55	19.1	34	11.6	61	19.2	162	26.2	90	16.0	122	19.3	116	20.9	90	21.6	77	18.9	1 056	24.0
Shigellosis	0		17	6.7	9	3.1	3		3		22	3.6	17	3.0	7	1.1	11	2.0	9	2.2	3		101	2.3
Tuberculosis disease	3		5	2.0	3		9	3.1	19	6.0	82	13.3	44	7.8	46	7.3	28	5.0	37	8.9	36	8.8	312	7.1
Typhoid fever	0		3		7	2.4	3		2		13	2.1	8	1.4	5	0.8	2		1		1		45	1.0
VTEC/STEC infection	9	14.4	60	23.8	13	4.5	10	3.4	5	1.6	14	2.3	11	2.0	8	1.3	2		7	1.7	15	3.7	154	3.5
Yersiniosis	41	65.7	134	53.2	18	6.3	24	8.2	20	6.3	50	8.1	60	10.7	46	7.3	49	8.8	40	9.6	31	7.6	514	11.7

^a Total includes cases where age was unknown.

^b Cases of acute gastroenteritis from a common source or foodborne intoxication eg, staphylococcal intoxication.

Note: Where fewer than five cases have been notified a rate has not been calculated and the cell has been left blank.

Notifiable disease cases and rates by ethnic group, 2011

Table 48. Number of cases and rate per 100 000 population of notifiable diseases by ethnic group, 2011

Disease	Ethnic group											
	Māori		Pacific Peoples		Asian		MELAA ^a		European or Other		Total ^b	
	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate
Campylobacteriosis	465	71.9	139	52.2	289	71.1	37	98.2	5 350	175.5	6 692	151.9
Cryptosporidiosis	59	9.1	5	1.9	17	4.2	3		509	16.7	610	13.8
Dengue fever	1		3		9	2.2	1		20	0.7	42	1.0
Gastroenteritis ^c	49	7.6	21	7.9	25	6.2	3		488	16.0	630	14.3
Giardiasis	110	17.0	22	8.3	76	18.7	33	87.6	1 548	50.8	1 935	43.9
<i>Haemophilus influenzae</i> type b	2		1		0		0		5	0.2	8	0.2
Hepatitis A	2		3		12	3.0	2		6	0.2	26	0.6
Hepatitis B	10	1.5	7	2.6	7	1.7	0		22	0.7	49	1.1
Hepatitis C	4		0		0		0		23	0.8	27	0.6
Invasive pneumococcal disease	114	17.6	62	23.3	15	3.7	3		344	11.3	552	12.5
Lead absorption	19	2.9	21	7.9	13	3.2	1		153	5.0	230	5.2
Legionellosis	6	0.9	8	3.0	3		3		133	4.4	159	3.6
Leptospirosis	10	1.5	2		0		0		55	1.8	70	1.6
Listeriosis	3		3		5	1.2	0		15	0.5	26	0.6
Malaria	1		2		29	7.1	4		13	0.4	52	1.2
Measles	113	17.5	62	23.3	35	8.6	6	15.9	374	12.3	597	13.6
Meningococcal disease	41	6.3	19	7.1	2		1		55	1.8	119	2.7
Mumps	9	1.4	5	1.9	12	3.0	0		24	0.8	51	1.2
Paratyphoid fever	1		0		4		0		6	0.2	12	0.3
Pertussis	261	40.4	63	23.7	49	12.1	10	26.5	1 582	51.9	1 998	45.4
Rheumatic fever	92	14.2	66	24.8	0		0		6	0.2	164	3.7
Rickettsial disease	0		0		0		0		5	0.2	6	0.1
Rubella	3		1		6	1.5	0		12	0.4	23	0.5
Salmonellosis	84	13.0	41	15.4	60	14.8	10	26.5	801	26.3	1 056	24.0
Shigellosis	11	1.7	23	8.6	14	3.4	3		38	1.2	101	2.3
Tuberculosis disease	39	6.0	50	18.8	165	40.6	16	42.5	33	1.1	312	7.1
Typhoid fever	0		18	6.8	21	5.2	0		5	0.2	45	1.0
VTEC/STEC infection	13	2.0	2	-	4		1		131	4.3	154	3.5
Yersiniosis	31	4.8	23	8.6	127	31.2	5	13.3	300	9.8	514	11.7

^aTotal includes cases where ethnicity was unknown

^bMiddle Eastern/Latin American/African

^cCases of acute gastroenteritis from a common source or foodborne intoxication eg, staphylococcal intoxication.

Note: Denominator data used to determine disease rates for ethnic groups is based on the proportion of people in each ethnic group from the estimated resident 2006 census population applied to the 2011 mid year population estimates from Statistics New Zealand. Ethnicity is prioritised in the following order: Māori, Pacific Peoples, Asian, MELAA and European or Other Ethnicity (including New Zealander). Where fewer than five cases have been notified, a rate has not been calculated and the cell has been left blank.

Notifiable disease cases by year and source, 1988–2011

Table 49. Number of notifiable disease cases by year and source, 1988–1999

Disease	Source ^a	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
AIDS	N	38	59	73	78	50	70	44	49	76	43	29	33
Campylobacteriosis	N	2 796	4 187	3 850	4 148	5 144	8 101	7 714	7 442	7 635	8 924	11 572	8 161
Cholera	N	0	0	5	0	0	0	2	2	0	0	1	1
Creutzfeldt-Jakob disease	N									2	1	0	2
Cryptosporidiosis	N									119	357	866	977
Dengue fever	N	1	3	2	3	1	1	0	6	23	14	26	9
Gastroenteritis ^b	N									555	310	492	601
Giardiasis	N									1 235	2 127	2 183	1 793
<i>Haemophilus influenzae</i> type b	N									26	9	11	10
	L	107	121	143	148	166	118	75	14	24	8	10	9
Hepatitis A	N	176	134	150	224	288	257	179	338	311	347	145	119
Hepatitis B	N	370	309	242	227	221	145	133	125	104	138	88	94
Hepatitis C	N	20	13	11	25	89	91	79	88	59	92	102	96
Hydatid disease	N	2	0	4	0	4	4	1	5	3	2	2	8
Influenza	S	136	119	343	183	317	423	441	521	673	743	127	425
Legionellosis	N	62	17	20	14	11	24	66	33	36	63	43	51
	L			21	42	60	76	121	76	60	109	107	65
Leprosy	N	2	4	1	4	5	3	1	1	10	3	3	10
Leptospirosis	N	99	90	117	106	70	116	70	65	56	52	75	59
	L	192	182	229	176	218	234	168	183	140	84	117	76
Listeriosis	N	7	10	16	26	16	11	8	13	10	35	17	19
Malaria	N	25	27	32	39	29	58	34	41	107	65	73	46
Measles	N									68	1984	164	107
Meningococcal disease	N	83	49	53	71	153	202	208	394	473	609	439	507
Mumps	N									76	90	85	56
Paratyphoid fever	N	2	0	1	1	2	10	7	24	20	25	18	17
Pertussis	N									1 022	284	153	1 046
Rheumatic fever - initial attack	N	153	148	90	97	70	81	98	88	110	93	66	97
Rubella	N									306	80	53	35
Salmonellosis	N	1 128	1 860	1 619	1 244	1 239	1 340	1 522	1 334	1 141	1 177	2 069	2 077
Shigellosis	N	145	137	197	152	124	128	185	191	167	117	122	147
Tetanus	N	1	0	0	0	8	2	2	2	3	0	2	6
Tuberculosis disease	N	295	303	348	335	327	323	352	391	352	323	365	446
Typhoid fever	N	15	17	7	9	11	14	24	21	15	16	31	10
VTEC/STEC infection	N						3	3	6	7	13	48	64
Yersiniosis	N									330	488	546	503

^a Source: Notification (N), Laboratory (L), Sentinel isolates (S)

^b Cases of acute gastroenteritis from a common source or foodborne intoxication eg, staphylococcal intoxication.

Notifiable disease cases by year and source, 1988–2011

Table 50. Number of notifiable disease cases by year and source, 2000–2011

Disease	Source ^a	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
AIDS	N	26	26	17	33	38	49	29	31	48	28	39	24
Campylobacteriosis	N	8 418	10 146	12 494	14 788	12 215	13 836	15 873	12 778	6 694	7 177	7 346	6 692
Cholera	N	0	3	1	1	2	0	0	1	0	0	2	0
Creutzfeldt-Jakob disease	N	3	1	3	6	8	3	5	8	5	8	5	4
Cryptosporidiosis	N	775	1 208	975	817	611	889	737	924	764	854	954	610
Dengue fever	N	7	93	70	55	8	11	19	114	113	139	51	42
Gastroenteritis ^b	N	727	940	1 087	1 026	1 363	557	937	622	687	712	492	630
Giardiasis	N	1 688	1 604	1 547	1 570	1 514	1 231	1 214	1 402	1 660	1 639	1 985	1 935
<i>Haemophilus influenzae</i> type b	N	13	11	3	12	4	7	9	15	9	10	8	8
	L	10	8	3	9	3	6	8	13	4	8	8	8
Hepatitis A	N	107	61	106	70	49	51	123	42	89	44	46	26
Hepatitis B	N	79	56	67	61	38	59	62	72	38	55	51	49
Hepatitis C	N	80	58	53	40	24	29	35	30	22	32	17	27
Hydatid disease	N	3	7	2	0	1	2	0	6	7	3	4	6
Influenza	S	73	313	241	230	231	273	315	239	466	624	349	336
Legionellosis	N	61	46	49	77	62	85	52	64	73	74	178	159
	L	56	56	53	82	75	83	54	72	74	77	178	160
Leprosy	N	4	3	4	4	3	2	4	8	5	3	3	1
Leptospirosis	N	98	99	140	113	102	85	87	66	118	69	81	70
	L	114	113	181	149	113	109	67	42	72	60	58	44
Listeriosis	N	22	18	19	24	26	20	19	26	27	28	23	26
Malaria	N	111	54	61	46	33	32	30	25	40	50	44	52
Measles	N	64	82	21	66	32	19	18	24	12	248	48	597
Meningococcal disease	N	477	648	555	542	343	226	160	104	122	133	97	119
Mumps	N	50	56	64	56	45	61	47	73	76	63	41	51
Paratyphoid fever	N	24	32	16	18	28	25	23	23	25	25	19	12
Pertussis	N	4 140	1 334	1 068	585	3 485	2 719	1 120	332	417	1 398	873	1 998
Rheumatic fever - initial attack	N	108	114	87	148	75	76	104	133	139	124	155	164
Rubella	N	26	30	33	26	23	13	8	11	9	4	4	23
Salmonellosis	N	1 795	2 417	1 880	1 401	1 081	1 382	1 335	1 275	1 339	1 128	1 146	1 056
Shigellosis	N	115	157	112	87	140	183	102	129	113	119	105	101
Tetanus	N	1	4	1	2	1	1	1	1	0	1	7	0
Tuberculosis disease	N	354	369	381	423	375	330	350	282	293	299	307	312
Typhoid fever	N	21	27	23	20	31	30	42	48	29	34	31	45
VTEC/STEC infection	N	67	76	73	104	89	92	87	100	124	143	138	154
Yersiniosis	N	396	429	472	436	407	383	453	502	508	430	406	514

^a Source: Notification (N), Laboratory (L), Sentinel isolates (S)

^b Cases of acute gastroenteritis from a common source or foodborne intoxication eg, staphylococcal intoxication.