

APPENDIX: NATIONAL DATA AND TRENDS

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Comparison of notifiable disease cases and rates for 2011 and 2012

Table 41. Numbers of cases and rates per 100 000 population for common (10 or more cases reported per year) notifiable diseases in New Zealand, 2011–2012

Disease	2011		2012		Change ^{d,e}
	Cases	Rate	Cases	Rate	
AIDS ^a	24	0.5	20	0.5	-
Campylobacteriosis	6 689	151.8	7 031	158.6	→
Cryptosporidiosis	610	13.8	877	19.8	→
Dengue fever	42	1.0	77	1.7	→
Gastroenteritis ^b	630	14.3	735	16.6	→
Giardiasis	1 934	43.9	1 719	38.8	←
Hepatitis A	26	0.6	82	1.8	→
Hepatitis B ^c	51	1.2	39	0.9	←
Hepatitis C ^c	26	0.6	32	0.7	→
Invasive pneumococcal disease	552	12.5	488	11.0	←
Lead absorption	230	5.2	272	6.1	→
Legionellosis	158	3.6	152	3.4	←
Leptospirosis	68	1.5	113	2.5	→
Listeriosis	26	0.6	25	0.6	←
Malaria	52	1.2	38	0.9	←
Measles	596	13.5	68	1.5	←
Meningococcal disease	119	2.7	85	1.9	←
Mumps	51	1.2	26	0.6	←
Paratyphoid fever	13	0.3	22	0.5	→
Pertussis	1 996	45.3	5 902	133.1	→
Rheumatic fever	164	3.7	179	4.0	→
Salmonellosis	1 055	23.9	1 085	24.5	→
Shigellosis	101	2.3	132	3.0	→
Tuberculosis disease	309	7.0	297	6.7	←
Typhoid fever	45	1.0	45	1.0	←
VTEC/STEC infection	153	3.5	147	3.3	←
Yersiniosis	514	11.7	517	11.7	←

^a Data source [16].

^b Cases of acute gastroenteritis from a common source or foodborne intoxication, e.g., 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. Results are considered statistically significant when the *P* value is less than or equal to 0.05.

Comparison of notifiable disease cases and rates for 2011 and 2012

Table 42. Numbers of cases for rare (fewer than 10 cases reported per year) notifiable diseases in New Zealand, 2011–2012

Disease ^a	2011	2012
Chemical poisoning from the environment	3	7
Chikungunya fever	1	0
<i>Cronobacter</i> species	0	1
<i>Haemophilus influenzae</i> type b	8	4
Hepatitis NOS	7	2
Hydatid disease	6	1
Leprosy	1	2
Q fever	1	0
Rickettsial disease	5	4
Ross River virus infection	3	1
Rubella	22	4
Taeniasis	10	6
Tetanus	0	2
Toxic shellfish poisoning	3	34

^a No cases of the following notifiable diseases were reported in 2011 and 2012: anthrax, brucellosis, Barmah Forest virus infection, cholera, congenital rubella, cysticercosis, decompression sickness, highly pathogenic avian influenza, non-seasonal influenza, plague, poliomyelitis, primary amoebic meningo-encephalitis, rabies, severe acute respiratory syndrome (SARS), trichinosis, viral haemorrhagic fever and yellow fever.

Deaths from notifiable diseases in EpiSurv, 1997–2012

Table 43. Deaths due to notifiable diseases recorded in EpiSurv, 1997–2012

Disease	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
AIDS ^a	34	19	18	19	14	11	10	13	15	14	5	2	2	8	1	3
Campylobacteriosis	2	2	1	3	1	1	0	0	1	1	1	0	0	0	0	0
Chemical poisoning from the environment	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2
Creutzfeldt-Jakob disease ^b	3	0	2	3	1	3	4	3	0	5	0	0	0	0	0	8
Gastroenteritis ^c	0	0	0	0	0	1	0	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	0
<i>Haemophilus influenzae</i> type b disease	1	0	0	0	1	1	2	0	0	0	0	0	0	1	0	1
Hepatitis B	2	0	0	0	1	0	0	0	1	0	1	0	0	0	0	1
Hydatid disease	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Invasive pneumococcal disease ^d												8	35	27	32	31
Legionellosis ^e	4	1	1	5	2	3	1	1	4	3	1	4	2	5	4	6
Listeriosis - non perinatal	2	0	1	2	1	0	2	3	1	0	2	3	2	3	1	4
Listeriosis - perinatal	6	0	2	4	1	3	2	2	0	1	2	2	2	4	0	2
Malaria	1	0	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	6
Non-seasonal influenza ^f													36	17	0	0
Pertussis	0	0	0	1	0	1	1	1	0	0	0	0	0	0	1	2
Primary amoebic meningoencephalitis	0	0	0	1	0	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	0
Salmonellosis	2	2	1	7	2	1	0	0	1	1	1	1	1	0	0	0
Shigellosis	0	0	1	0	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	0
Tuberculosis disease	15	8	14	8	2	6	6	6	4	5	3	4	4	9	3	3
VTEC/STEC infection	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Yersiniosis	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0

^a Data source [16].^b Data source [20].^c Cases of acute gastroenteritis from a common source or foodborne intoxication, e.g., 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 a death 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, 2008–2010 (Ministry of Health, NMDS)

Table 44. Reported deaths from selected notifiable diseases, 2008–2010

Disease	ICD 10 codes	2008		2009		2010 ^a	
		Und ^b	Cont ^c	Und ^b	Cont ^c	Und ^b	Cont ^c
AIDS	B20-B24	7	4	10	8	14	6
Campylobacteriosis	A04.5		4	1			4
Creutzfeldt-Jakob disease	A81.0	2		7	1	4	
Dengue fever	A90, A91	1					
Hepatitis A	B15		1				2
Hepatitis B	B16	1	3	1	1		2
Hepatitis C	B17.1		5	1	2		2
Hydatid disease	B67		2				1
Legionellosis	A48.1	3	2	3		6	1
Listeriosis	A32	1	1	3	3	3	
Meningococcal disease	A39	8		4		6	
Pertussis	A37					1	
Rheumatic fever	I00, I01, I02			1			
Salmonellosis	A02	1	2	1	4		1
Shigellosis	A03	1					
Tetanus	A33-A35					1	
Tuberculosis	A15-A19, P37.0	8	11	8	24	9	17
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, 2010–2012 (Ministry of Health, NMDS)

Table 45. Hospital admissions for selected notifiable diseases, 2010–2012

Disease	ICD 10 codes	2010		2011		2012	
		Prin ^a	Oth ^b	Prin ^a	Oth ^b	Prin ^a	Oth ^b
AIDS	B20-B24	17	298	13	245	6	253
Arboviral diseases	A83, A84, A85.2, A92, A93, A94, B33.1	2				1	1
Campylobacteriosis	A04.5	526	107	445	132	544	116
Cholera	A00	1		1			
Creutzfeldt-Jakob disease	A81.0	5	2	4	4	6	3
Cryptosporidiosis	A07.2	16	14	16	2	42	12
Cysticercosis	B69	4	1				3
Decompression sickness	T70.3	24	2	33	4	33	1
Dengue fever	A90, A91	16	2	15		16	
Diphtheria	A36	2					1
Giardiasis	A07.1	18	15	35	25	27	23
Hepatitis A	B15	20	13	8	11	35	4
Hepatitis B	B16	26	24	27	33	24	25
Hepatitis C	B17.1	13	12	9	31	21	30
Hydatid disease	B67	5	9	14	7	8	3
Lead absorption	T56.0	6		5	1	6	3
Legionellosis	A48.1	68	11	61	21	68	14
Leprosy	A30	1	3	1	1	1	1
Leptospirosis	A27	57	3	49	5	69	12
Listeriosis	A32	13	18	11	19	14	13
Malaria	B50-B54	40	2	44	1	28	
Measles	B05	5	1	133	10	19	1
Meningococcal disease	A39	112	23	122	21	90	27
Mumps	B26	10	3	13	1	9	5
Paratyphoid	A01.1-A01.4	6	1	5		6	
Pertussis	A37	134	23	144	17	396	72
Q fever	A78	1		1			
Rheumatic fever	I00, I01, I02	252	55	256	43	229	35
Rickettsial disease	A75, A77, A79	6	1	7	1	2	
Rubella	B06	1	1	1	2	2	
Salmonellosis	A02	121	49	107	29	128	46
Shigellosis	A03	21	4	22	6	12	8
Taeniasis	B689		1		1		
Tetanus	A33-A35	7	1	3	2	4	4
Tuberculosis	A15-A19, P37.0	258	158	225	106	203	109
Typhoid	A01.0	34	1	34	5	48	5
Viral haemorrhagic fever	A95, A98, A99			2			
VTEC/STEC infection	A04.0-A04.4	35	24	50	23	55	23
Yellow fever	A95			1	1		
Yersiniosis	A04.6	13	14	16	23	18	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, 2012

Table 46a. Number of cases and rate per 100 000 population of notifiable diseases by DHB, 2012

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	230	145.3	776	140.2	524	113.4	480	94.5	695	187.7	166	161.0	267	125.9	54	115.4	220	199.4	297	191.1
Cryptosporidiosis	37	23.4	43	7.8	29	6.3	38	7.5	179	48.3	22	21.3	21	9.9	1		28	25.4	48	30.9
Dengue fever	2		12	2.2	19	4.1	11	2.2	2		0		3		1		0		0	
Gastroenteritis ^b	1		88	15.9	123	26.6	42	8.3	46	12.4	24	23.3	45	21.2	3		13	11.8	2	
Giardiasis	43	27.2	214	38.7	257	55.6	131	25.8	156	42.1	59	57.2	95	44.8	8	17.1	38	34.4	60	38.6
Hepatitis A	1		36	6.5	15	3.2	15	3.0	3		0		1		0		1		2	
Hepatitis B ^c	2		5	0.9	3		6	1.2	3		1		1		2		2		1	
Hepatitis C ^c	0		0		1		1		0		0		0		0		3		2	
Invasive pneumococcal disease	23	14.5	38	6.9	52	11.3	75	14.8	42	11.3	14	13.6	36	17.0	3		14	12.7	21	13.5
Lead absorption	3		35	6.3	66	14.3	43	8.5	9	2.4	4		8	3.8	3		7	6.3	3	
Legionellosis	5	3.2	20	3.6	21	4.5	11	2.2	9	2.4	0		2		0		0		1	
Leptospirosis	4		2		2		2		31	8.4	0		4		3		4		19	12.2
Listeriosis	0		3		2		5	1.0	3		0		5	2.4	0		1		4	
Malaria	2		5	0.9	12	2.6	9	1.8	0		1		0		0		0		3	
Measles	8	5.1	10	1.8	8	1.7	33	6.5	1		0		0		0		0		0	
Meningococcal disease	3		9	1.6	8	1.7	7	1.4	5	1.4	5	4.8	5	2.4	1		6	5.4	2	
Mumps	1		2		2		0		2		0		1		1		1		0	
Paratyphoid fever	0		2		8	1.7	1		0		0		1		0		0		1	
Pertussis	82	51.8	275	49.7	275	59.5	338	66.5	355	95.9	94	91.2	189	89.1	150	320.5	131	118.7	126	81.1
Rheumatic fever	14	8.8	16	2.9	11	2.4	78	15.4	19	5.1	6	5.8	3		8	17.1	2		6	3.9
Salmonellosis	29	18.3	120	21.7	121	26.2	71	14.0	94	25.4	23	22.3	36	17.0	9	19.2	29	26.3	29	18.7
Shigellosis	2		31	5.6	24	5.2	25	4.9	6	1.6	0		7	3.3	0		4		1	
Tuberculosis disease	3		42	7.6	58	12.5	47	9.3	22	5.9	2		11	5.2	2		5	4.5	21	13.5
Typhoid fever	0		7	1.3	10	2.2	14	2.8	0		1		2		1		0		1	
VTEC/STEC infection	12	7.6	14	2.5	6	1.3	10	2.0	22	5.9	3		18	8.5	1		8	7.3	4	
Yersiniosis	16	10.1	91	16.4	60	13.0	56	11.0	48	13.0	9	8.7	22	10.4	6	12.8	11	10.0	12	7.7

^a Table is continued on the following page.

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

^c Only acute cases of this disease are notifiable.

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, 2012

Table 46b. Number of cases and rate per 100 000 population of notifiable diseases by DHB, 2012 (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	91	145.6	199	117.6	171	118.5	430	144.7	73	179.7	303	215.4	72	218.8	1 127	225.2	178	314.8	678	220.2
Cryptosporidiosis	3		25	14.8	34	23.6	111	37.3	16	39.4	17	12.1	10	30.4	88	17.6	46	81.3	81	26.3
Dengue fever	0		5	3.0	2		9	3.0	0		0		0		5	1.0	0		6	1.9
Gastroenteritis ^b	11	17.6	127	75.1	43	29.8	79	26.6	3		17	12.1	7	21.3	47	9.4	2		12	3.9
Giardiasis	7	11.2	20	11.8	51	35.3	128	43.1	20	49.2	67	47.6	11	33.4	195	39.0	24	42.4	135	43.9
Hepatitis A	0		0		1		6	2.0	0		0		0		1		0		0	
Hepatitis B ^c	0		2		0		2		0		1		0		6	1.2	0		2	
Hepatitis C ^c	0		0		0		3		0		2		0		5	1.0	2		13	4.2
Invasive pneumococcal disease	6	9.6	11	6.5	12	8.3	29	9.8	10	24.6	20	14.2	1		40	8.0	6	10.6	35	11.4
Lead absorption	10	16.0	10	5.9	13	9.0	17	5.7	7	17.2	3		2		11	2.2	3		15	4.9
Legionellosis	1		4		1		7	2.4	0		5	3.6	1		52	10.4	2		10	3.2
Leptospirosis	6	9.6	11	6.5	1		0		4		4		5	15.2	5	1.0	2		4	
Listeriosis	0		0		0		1		0		0		0		0		1		0	
Malaria	0		1		1		0		0		1		0		3		0		0	
Measles	0		0		0		3		0		0		1		4		0		0	
Meningococcal disease	1		3		1		9	3.0	0		2		0		10	2.0	3		5	1.6
Mumps	0		0		1		2		1		3		0		8	1.6	1		0	
Paratyphoid fever	0		0		0		1		0		1		0		3		0		4	
Pertussis	149	238.4	205	121.1	358	248.1	680	228.8	123	302.7	673	478.3	153	465.0	1 227	245.2	58	102.6	261	84.8
Rheumatic fever	0		3		3		9	3.0	0		0		0		1		0		0	
Salmonellosis	9	14.4	31	18.3	32	22.2	44	14.8	5	12.3	58	41.2	14	42.6	133	26.6	29	51.3	169	54.9
Shigellosis	0		2		1		11	3.7	0		1		0		9	1.8	0		8	2.6
Tuberculosis disease	1		6	3.5	10	6.9	23	7.7	0		14	10.0	1		19	3.8	1		9	2.9
Typhoid fever	0		0		3		2		0		0		0		3		0		1	
VTEC/STEC infection	0		1		1		0		0		4		2		23	4.6	4		14	4.5
Yersiniosis	3		7	4.1	22	15.2	54	18.2	4		4		2		59	11.8	13	23.0	18	5.8

^a Table is continued from the previous page.

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

^c Only acute cases of this disease are notifiable.

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, 2012

Table 47. Number of cases and rate per 100 000 population of notifiable diseases by sex, 2012

Disease	Sex					
	Male		Female		Total ^a	
	Cases	Rate	Cases	Rate	Cases	Rate
Campylobacteriosis	3 938	180.6	3 093	137.3	7 031	158.6
Cryptosporidiosis	452	20.7	425	18.9	877	19.8
Dengue fever	42	1.9	35	1.6	77	1.7
Gastroenteritis ^b	313	14.4	422	18.7	735	16.6
Giardiasis	811	37.2	907	40.3	1 719	38.8
Hepatitis A	45	2.1	37	1.6	82	1.8
Hepatitis B ^c	25	1.1	14	0.6	39	0.9
Hepatitis C ^c	17	0.8	15	0.7	32	0.7
Invasive pneumococcal disease	262	12.0	226	10.0	488	11.0
Lead absorption	256	11.7	16	0.7	272	6.1
Legionellosis	98	4.5	54	2.4	152	3.4
Leptospirosis	104	4.8	9	0.4	113	2.5
Listeriosis	11	0.5	14	0.6	25	0.6
Malaria	32	1.5	5	0.2	38	0.9
Measles	33	1.5	35	1.6	68	1.5
Meningococcal disease	41	1.9	44	2.0	85	1.9
Mumps	12	0.6	14	0.6	26	0.6
Paratyphoid fever	14	0.6	8	0.4	22	0.5
Pertussis	2 538	116.4	3 364	149.3	5 902	133.1
Rheumatic fever	100	4.6	79	3.5	179	4.0
Salmonellosis	561	25.7	524	23.3	1 085	24.5
Shigellosis	62	2.8	70	3.1	132	3.0
Tuberculosis disease	156	7.2	140	6.2	297	6.7
Typhoid fever	25	1.1	20	0.9	45	1.0
VTEC/STEC infection	74	3.4	73	3.2	147	3.3
Yersiniosis	282	12.9	234	10.4	517	11.7

^a Total includes cases where sex was unknown.

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

^c Only acute cases of this disease are notifiable.

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, 2012

Table 48. Number of cases and rate per 100 000 population of notifiable diseases by age group, 2012

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	163	269.0	754	300.1	347	119.0	274	94.8	440	141.3	1124	179.0	714	128.0	855	136.6	842	147.9	769	179.5	742	176.5	7031	158.6
Cryptosporidiosis	19	31.4	303	120.6	113	38.8	61	21.1	61	19.6	93	14.8	108	19.4	51	8.1	33	5.8	21	4.9	14	3.3	877	19.8
Dengue fever	0		0		2		2		5	1.6	18	2.9	13	2.3	12	1.9	14	2.5	10	2.3	1		77	1.7
Gastroenteritis ^b	27	44.6	83	33.0	18	6.2	15	5.2	27	8.7	83	13.2	104	18.6	85	13.6	82	14.4	46	10.7	141	33.5	735	16.6
Giardiasis	38	62.7	343	136.5	102	35.0	36	12.5	39	12.5	177	28.2	402	72.1	236	37.7	156	27.4	146	34.1	41	9.8	1719	38.8
Hepatitis A	0		13	5.2	21	7.2	10	3.5	5	1.6	12	1.9	7	1.3	7	1.1	3		3		1		82	1.8
Hepatitis B ^c	0		0		0		0		2		3		6	1.1	15	2.4	8	1.4	5	1.2	0		39	0.9
Hepatitis C ^c	0		0		0		0		3		13	2.1	7	1.3	6	1.0	1		0		2		32	0.7
Invasive pneumococcal disease	31	51.2	27	10.7	13	4.5	7	2.4	11	3.5	18	2.9	35	6.3	34	5.4	63	11.1	84	19.6	165	39.2	488	11.0
Lead absorption	0		2		2		1		4		28	4.5	45	8.1	71	11.3	68	11.9	44	10.3	7	1.7	272	6.1
Legionellosis	0		0		0		0		0		7	1.1	11	2.0	16	2.6	29	5.1	41	9.6	48	11.4	152	3.4
Leptospirosis	0		0		0		0		4		21	3.3	18	3.2	31	5.0	26	4.6	12	2.8	1		113	2.5
Listeriosis	0		0		0		1		0		1		1		1		2		6	1.4	13	3.1	25	0.6
Malaria	0		0		0		1		3		16	2.5	3		9	1.4	5	0.9	1		0		38	0.9
Measles	17	28.1	19	7.6	8	2.7	7	2.4	8	2.6	2		4		3		0		0		0		68	1.5
Meningococcal disease	12	19.8	14	5.6	4		6	2.1	15	4.8	12	1.9	7	1.3	5	0.8	6	1.1	2		2		85	1.9
Mumps	0		5	2.0	6	2.1	0		0		2		6	1.1	2		3		1		1		26	0.6
Paratyphoid fever	0		2		0		2		5	1.6	4		7	1.3	1		0		0		1		22	0.5
Pertussis	421	694.8	896	356.6	759	260.4	540	186.9	280	89.9	535	85.2	680	121.9	755	120.6	486	85.4	336	78.4	214	50.9	5902	133.1
Rheumatic fever	0		0		42	14.4	77	26.7	24	7.7	32	5.1	3		1		0		0		0		179	4.0
Salmonellosis	65	107.3	185	73.6	59	20.2	34	11.8	49	15.7	172	27.4	106	19.0	117	18.7	119	20.9	93	21.7	85	20.2	1085	24.5
Shigellosis	0		16	6.4	10	3.4	1		5	1.6	26	4.1	17	3.0	15	2.4	17	3.0	19	4.4	6	1.4	132	3.0
Tuberculosis disease	1		4		3		5	1.7	12	3.9	73	11.6	61	10.9	34	5.4	27	4.7	34	7.9	43	10.2	297	6.7
Typhoid fever	0		1		1		2		4		18	2.9	5	0.9	7	1.1	2		2		3		45	1.0
VTEC/STEC infection	9	14.9	57	22.7	15	5.1	6	2.1	8	2.6	11	1.8	9	1.6	7	1.1	9	1.6	7	1.6	9	2.1	147	3.3
Yersiniosis	49	80.9	135	53.7	20	6.9	23	8.0	24	7.7	57	9.1	45	8.1	45	7.2	51	9.0	28	6.5	40	9.5	517	11.7

^a Total includes cases where age was unknown.

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

^c Only acute cases of this disease are notifiable.

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, 2012

Table 49. Number of cases and rate per 100 000 population of notifiable diseases by ethnic group, 2012

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	490	75.7	111	41.6	306	75.0	28	74.2	5 620	182.9	7 031	158.6
Cryptosporidiosis	69	10.7	15	5.6	18	4.4	5	13.2	746	24.3	877	19.8
Dengue fever	2		2		15	3.7	3		46	1.5	77	1.7
Gastroenteritis ^c	57	8.8	16	6.0	32	7.8	2		549	17.9	735	16.6
Giardiasis	104	16.1	12	4.5	74	18.1	39	103.3	1 375	44.7	1 719	38.8
Hepatitis A	1		10	3.7	53	13.0	5	13.2	11	0.4	82	1.8
Hepatitis B ^d	8	1.2	2		7	1.7	1		20	0.7	39	0.9
Hepatitis C ^d	4		1		0		0		27	0.9	32	0.7
Invasive pneumococcal disease	102	15.8	59	22.1	16	3.9	4		294	9.6	488	11.0
Lead absorption	9	1.4	16	6.0	11	2.7	2		188	6.1	272	6.1
Legionellosis	8	1.2	9	3.4	7	1.7	0		126	4.1	152	3.4
Leptospirosis	19	2.9	2		1		0		86	2.8	113	2.5
Listeriosis	1		4		1		1		18	0.6	25	0.6
Malaria	1		5	1.9	25	6.1	3		4		38	0.9
Measles	25	3.9	28	10.5	1		0		14	0.5	68	1.5
Meningococcal disease	29	4.5	10	3.7	1		3		42	1.4	85	1.9
Mumps	2		1		7	1.7	0		15	0.5	26	0.6
Paratyphoid fever	0		0		13	3.2	0		8	0.3	22	0.5
Pertussis	820	126.6	210	78.7	170	41.7	35	92.7	4 543	147.8	5 902	133.1
Rheumatic fever	96	14.8	69	25.9	3		0		11	0.4	179	4.0
Salmonellosis	94	14.5	38	14.2	101	24.8	8	21.2	781	25.4	1 085	24.5
Shigellosis	6	0.9	36	13.5	13	3.2	3		64	2.1	132	3.0
Tuberculosis disease	38	5.9	34	12.7	177	43.4	14	37.1	31	1.0	297	6.7
Typhoid fever	0		28	10.5	16	3.9	0		1		45	1.0
VTEC/STEC infection	15	2.3	0		5	1.2	1		125	4.1	147	3.3
Yersiniosis	42	6.5	29	10.9	128	31.4	4		280	9.1	517	11.7

^a Middle Eastern/Latin American/African.

^b Total includes cases where ethnicity was unknown.

^c Cases of acute gastroenteritis from a common source or foodborne intoxication, e.g., staphylococcal intoxication.

^d Only acute cases of this disease are notifiable.

Note: Denominator data used to determine disease rates for ethnic groups are based on the proportion of people in each ethnic group from the estimated resident 2006 census population applied to the 2012 mid-year population estimates from Statistics New Zealand. Ethnicity is prioritised in the following order: Māori, Pacific Peoples, Asian, MELAA and European or Other (including New Zealander) ethnic groups. 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, 1988–2012

Table 50. Number of notifiable disease cases by year and source, 1988–2000

Disease	Source ^a	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
AIDS	N	38	59	73	78	50	70	44	49	76	43	29	33	26
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	8 418
Cholera	N	0	0	5	0	0	0	2	2	0	0	1	1	0
Creutzfeldt-Jakob disease	N									2	1	0	2	3
Cryptosporidiosis	N									119	357	866	977	775
Dengue fever	N	1	3	2	3	1	1	0	6	23	14	26	9	7
Gastroenteritis ^b	N									555	310	492	601	727
Giardiasis	N									1 235	2 127	2 183	1 793	1 688
<i>Haemophilus influenzae</i> type b	N									26	9	11	10	13
	L	107	121	143	148	166	118	75	14	24	8	10	9	10
Hepatitis A	N	176	134	150	224	288	257	179	338	311	347	145	119	107
Hepatitis B ^c	N	370	309	242	227	221	145	133	125	104	138	88	94	79
Hepatitis C ^c	N	20	13	11	25	89	91	79	88	59	92	102	96	80
Hydatid disease	N	2	0	4	0	4	4	1	5	3	2	2	8	3
Influenza	S	136	119	343	183	317	423	441	521	673	743	127	425	73
Legionellosis	N	62	17	20	14	11	24	66	33	36	63	43	51	61
	L			21	42	60	76	121	76	60	109	107	65	56
Leprosy	N	2	4	1	4	5	3	1	1	10	3	3	10	4
Leptospirosis	N	99	90	117	106	70	116	70	65	56	52	75	59	98
	L	192	182	229	176	218	234	168	183	140	84	117	76	114
Listeriosis	N	7	10	16	26	16	11	8	13	10	35	17	19	22
Malaria	N	25	27	32	39	29	58	34	41	107	65	73	46	111
Measles	N									68	1984	164	107	64
Meningococcal disease	N	83	49	53	71	153	202	208	394	473	609	439	507	477
Mumps	N									76	90	85	56	50
Paratyphoid fever	N	2	0	1	1	2	10	7	24	20	25	18	17	24
Pertussis	N									1 022	284	153	1 046	4 140
Rheumatic fever - initial attack	N	153	148	90	97	70	81	98	88	110	93	66	97	108
Rubella	N									306	80	53	35	26
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	1 795
Shigellosis	N	145	137	197	152	124	128	185	191	167	117	122	147	115
Tetanus	N	1	0	0	0	8	2	2	2	3	0	2	6	1
Tuberculosis disease	N	295	303	348	335	327	323	352	391	352	323	365	446	354
Typhoid fever	N	15	17	7	9	11	14	24	21	15	16	31	10	21
VTEC/STEC infection	N						3	3	6	7	13	48	64	67
Yersiniosis	N									330	488	546	503	396

^a Source: Notification (N), Laboratory (L), Sentinel isolates (S).^c Only acute cases of this disease are notifiable.^b Cases of acute gastroenteritis from a common source or foodborne intoxication, e.g., staphylococcal intoxication.

Notifiable disease cases by year and source, 1988–2012

Table 51. Number of notifiable disease cases by year and source, 2001–2012

Disease	Source ^a	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
AIDS	N	26	17	33	38	49	29	31	48	28	39	24	20
Campylobacteriosis	N	10 145	12 493	14 788	12 215	13 836	15 873	12 778	6 694	7 177	7 346	6 689	7 031
Cholera	N	3	1	1	2	0	0	1	0	0	2	0	0
Creutzfeldt–Jakob disease	N	1	3	6	8	3	5	8	5	8	5	4	9
Cryptosporidiosis	N	1 208	975	817	611	888	737	924	764	854	954	610	877
Dengue fever	N	93	70	55	8	11	19	114	113	139	50	42	77
Gastroenteritis ^b	N	940	1 087	1 026	1 363	557	937	622	686	712	493	630	735
Giardiasis	N	1 604	1 547	1 570	1 514	1 231	1 214	1 402	1 660	1 639	1 985	1 934	1 719
<i>Haemophilus influenzae</i> type b	N	11	3	12	4	7	9	15	9	10	8	8	4
	L	8	3	9	3	6	8	13	4	8	8	8	4
Hepatitis A	N	61	106	70	49	51	123	42	89	44	46	26	82
Hepatitis B ^c	N	56	67	61	38	59	62	72	38	55	51	51	39
Hepatitis C ^c	N	58	53	40	24	29	35	30	22	32	17	26	32
Hydatid disease	N	7	2	0	1	2	0	6	7	2	4	6	1
Influenza	S	313	241	230	231	273	315	239	466	624	349	336	399
Legionellosis	N	46	49	77	62	85	52	64	73	74	173	158	152
	L	56	53	82	75	83	54	72	74	77	178	160	152
Leprosy	N	3	4	4	3	2	4	8	5	3	3	1	2
Leptospirosis	N	99	140	113	102	85	87	66	118	69	80	68	113
	L	113	181	149	113	109	67	42	72	60	58	45	78
Listeriosis	N	18	19	24	26	20	19	26	27	28	23	26	25
Malaria	N	54	61	46	33	32	30	25	40	50	44	52	38
Measles	N	82	21	66	32	18	18	24	12	248	48	596	68
Meningococcal disease	N	648	555	542	343	226	160	104	122	133	97	119	85
Mumps	N	56	64	56	45	61	47	73	76	63	41	51	26
Paratyphoid fever	N	32	16	18	28	25	23	23	25	25	19	13	22
Pertussis	N	1 334	1 068	585	3 485	2 719	1 120	332	417	1 398	872	1 996	5 902
Rheumatic fever - initial attack	N	114	87	148	75	76	104	135	140	125	153	152	164
Rubella	N	30	33	26	23	13	8	11	9	4	4	22	4
Salmonellosis	N	2417	1880	1401	1081	1382	1335	1275	1339	1128	1146	1055	1085
Shigellosis	N	157	112	87	140	183	102	129	113	119	104	101	132
Tetanus	N	4	1	2	1	1	1	1	0	1	7	0	2
Tuberculosis disease	N	369	380	422	373	330	350	282	293	298	304	309	297
Typhoid fever	N	27	23	20	31	30	42	48	29	34	31	45	45
VTEC/STEC infection	N	76	73	104	89	92	87	100	124	143	138	153	147
Yersiniosis	N	429	472	436	407	383	453	502	508	430	406	514	517

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

^c Only acute cases of this disease are notifiable.

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

Selected *Salmonella* serotypes and phage types, 2008–2012 (Enteric Reference Laboratory, ESR)Table 52. Number of laboratory-reported cases of salmonellosis for selected *Salmonella* serotypes and phage types, 2008–2012

Serotype ^a	2008	2009	2010	2011	2012
<i>S. Typhimurium</i>	729	661	594	495	459
1	72	94	36	54	35
12a	28	28	35	28	26
101	72	56	70	50	26
160	135	106	107	66	58
135	27	20	48	47	44
156	67	54	35	29	21
RDNC ^b -May 06	55	43	85	73	73
Other or unknown	301	288	213	176	176
<i>S. Enteritidis</i>	124	95	113	134	125
1b	19	4	5	8	9
11 ^c	45	39	49	56	52
Other or unknown	60	52	59	70	64
Other serotypes	486	366	437	410	460
<i>S. Agona</i>	10	10	12	20	11
<i>S. Brandenburg</i>	33	36	47	34	34
<i>S. Infantis</i>	86	71	54	65	52
<i>S. Mississippi</i>	10	14	9	13	12
<i>S. Montevideo</i>	0	9	13	1	26
<i>S. Saintpaul</i>	35	26	34	31	27
<i>S. Stanley</i>	10	9	28	28	22
<i>S. Virchow</i>	14	12	16	18	17
<i>S. Weltevreden</i>	8	10	23	16	24
<i>S. enterica</i> (I) ser. 4,[5],12 : i : -	-	8	21	21	38
Other or unknown	288	188	224	201	197
Total	1 339	1 122	1 144	1 039	1 044

^a Excludes *S. Paratyphi* and *S. Typhi*.

^b RDNC reacts but does not conform to a known phage-type pattern.

^c Prior to 2012, *S. Enteritidis* phage type 11 was known as a 9a.

