

APPENDIX: NATIONAL DATA AND TRENDS

APPENDIX: NATIONAL DATA AND TRENDS

Comparison of notifiable disease cases and rates for 2013 and 2012

Table 1. Number of cases and rates per 100 000 population for selected notifiable diseases in New Zealand, 2013 and 2012

Disease	Number of notifications		Rate per 100 000		Change ^{d,e}
	2013	2012	2013	2012	
AIDS ^a	25	20	0.6	0.5	→
Campylobacteriosis	6837	7016	152.9	158.3	←
Cryptosporidiosis	1348	877	30.1	19.8	→
Dengue fever	106	76	2.4	1.7	→
Gastroenteritis (acute) ^b	559	765	12.5	17.2	←
Giardiasis	1729	1714	38.7	38.7	→
Hepatitis A	91	82	2.0	1.8	→
Hepatitis B ^c	28	39	0.6	0.9	←
Hepatitis C ^c	37	31	0.8	0.7	→
Invasive pneumococcal disease	480	489	10.7	11.0	←
Legionellosis	155	150	3.5	3.4	→
Leptospirosis	59	108	1.3	2.4	←
Listeriosis	19	25	0.4	0.6	←
Malaria	47	38	1.1	0.9	→
Measles	8	68	0.2	1.5	←
Meningococcal disease	68	85	1.5	1.9	←
Mumps	23	26	0.5	0.6	←
Paratyphoid fever	25	22	0.6	0.5	→
Pertussis	3539	5898	79.2	133.0	←
Rheumatic fever ^f	205	185	4.6	4.2	→
Salmonellosis	1143	1081	25.6	24.4	→
Shigellosis	137	132	3.1	3.0	→
Tuberculosis disease	278	293	6.2	6.6	←
Typhoid fever	50	44	1.1	1.0	→
VTEC/STEC infection	207	147	4.6	3.3	→
Yersiniosis	484	514	10.8	11.6	←

^a Data source: AIDS Epidemiology Group.

^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. Results are considered statistically significant when the *P* value is less than or equal to 0.05.

^f Includes rheumatic fever initial attack and recurrent cases.

Comparison of notifiable disease cases and rates for 2013 and 2012

Table 40. Numbers of cases for rare (fewer than 10 cases reported per year) notifiable diseases in New Zealand, 2013 and 2012

Disease ^a	2013	2012
Brucellosis	1	0
Chikungunya fever	1	0
Creutzfeldt-Jakob disease ^b	6	9
<i>Cronobacter</i> species	1	1
Cysticercosis	1	0
Decompression sickness	2	0
<i>Haemophilus influenzae</i> type b	2	4
Hepatitis NOS	2	2
Hydatid disease	7	1
Leprosy	11	2
Rickettsial disease	9	4
Ross River virus infection	3	1
Rubella	1	4
Taeniasis	6	6
Tetanus	1	2

^a No cases of the following notifiable diseases were reported in 2013 or 2012: anthrax, Barmah Forest virus infection, cholera, congenital rubella, highly pathogenic avian influenza, Middle East respiratory syndrome (MERS), non-seasonal influenza, plague, poliomyelitis, primary amoebic meningo-encephalitis, Q fever, rabies, severe acute respiratory syndrome (SARS), trichinosis, viral haemorrhagic fever and yellow fever.

^b Creutzfeldt-Jakob disease data is provided by the National CJD Registry, University of Otago.

Deaths from notifiable diseases in EpiSurv, 1997–2013

Table 41. Deaths due to notifiable diseases recorded in EpiSurv, 1997–2013

Disease	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
AIDS ^a	34	19	18	19	14	11	10	13	15	14	5	2	2	8	1	3	6
Campylobacteriosis	2	2	1	3	1	1	0	0	1	1	1	0	0	0	0	0	1
Creutzfeldt-Jakob disease ^b	3	0	2	3	1	3	4	3	0	5	0	0	0	0	0	8	6
Gastroenteritis ^c	0	0	0	0	0	1	0	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	0
<i>Haemophilus influenzae</i> type b	1	0	0	0	1	1	2	0	0	0	0	0	0	1	0	1	0
Hepatitis B	2	0	0	0	1	0	0	0	1	0	1	0	0	0	0	1	0
Hydatid disease	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Invasive pneumococcal disease ^d												8	35	27	32	32	18
Legionellosis ^e	4	1	1	5	2	3	1	1	4	3	1	4	2	5	4	6	3
Listeriosis - non perinatal	2	0	1	2	1	0	2	3	1	0	2	3	2	3	1	4	2
Listeriosis - perinatal	6	0	2	4	1	3	2	2	4	1	2	2	2	4	0	2	3
Malaria	1	0	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	4
Non seasonal influenza A (H1N1) ^f													36	17	0	0	0
Pertussis	0	0	0	1	0	1	1	1	0	0	0	0	0	0	1	2	1
Primary amoebic meningoencephalitis	0	0	0	1	0	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	0
Salmonellosis	2	2	1	7	2	1	0	0	1	1	1	1	1	0	0	0	0
Shigellosis	0	0	1	0	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	0
Tuberculosis disease	15	8	14	8	2	6	6	6	4	6	3	4	4	9	3	5	2
VTEC/STEC infection	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Yersiniosis	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0

^a Data source: AIDS Epidemiology Group [1].

^b Data source: CJD Registry [20].

^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 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, 2009–2011 (Ministry of Health)**Table 42. Reported deaths from selected notifiable diseases, 2009–2011**

Disease	ICD 10 codes	2009		2010		2011 ^a	
		Und ^b	Cont ^c	Und ^b	Cont ^c	Und ^b	Cont ^c
AIDS	B20-B24	9	8	16	6	8	6
Campylobacteriosis	A04.5	1			4		2
Cholera	A00						2
Creutzfeldt-Jakob disease	A81.0	7	1	4		6	
Dengue fever	A90, A91						
Hepatitis A	B15				2		
Hepatitis B	B16	1	1		2		
Hepatitis C	B17.1	1	2		2		
Hydatid disease	B67				1		1
Legionellosis	A48.1	3		6	1	2	
Listeriosis	A32	3	3	3			1
Meningococcal disease	A39	4		6		13	
Pertussis	A37			1			
Rheumatic fever	I00, I01, I02	1					
Salmonellosis	A02	1	4		1		
Shigellosis	A03						
Tetanus	A33-A35			1			
Tuberculosis	A15-A19, P37.0	7	24	11	17	6	13
Yersiniosis	A04.6	1					

^a Latest year that data is 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, 2011–2013 (Ministry of Health)

Table 43. Hospital admissions for selected notifiable diseases, 2011–2013

Disease	ICD 10 codes	2011		2012		2013	
		Prin ^a	Oth ^b	Prin ^a	Oth ^b	Prin ^a	Oth ^b
AIDS	B20-B24	12	249	7	253	6	263
Arboviral diseases	A83, A84, A85.2, A92, A93, A94, B33.1			1	1	1	
Brucellosis	A23					1	
Campylobacteriosis	A04.5	446	134	546	113	585	124
Cholera	A00	1					
Creutzfeldt-Jakob disease	A81.0	4	5	12	2	5	
Cryptosporidiosis	A07.2	17	2	41	12	38	21
Cysticercosis	B69				3	2	2
Decompression sickness	T70.3	33	4	33	1	42	4
Dengue fever	A90, A91	15		16		35	1
Diphtheria	A36				1	1	
Giardiasis	A07.1	35	25	27	22	24	23
Hepatitis A	B15	9	10	34	4	29	10
Hepatitis B	B16	27	33	24	27	18	24
Hepatitis C	B17.1	9	30	22	34	17	35
Hydatid disease	B67	13	5	8	5	5	10
Legionellosis	A48.1	61	21	66	16	79	10
Leprosy	A30	1	1	1	1		3
Leptospirosis	A27	48	6	69	11	47	5
Listeriosis	A32	11	21	14	12	13	11
Malaria	B50-B54	44	1	28		42	3
Measles	B05	134	11	19		4	1
Meningococcal disease	A39	122	22	93	27	69	16
Mumps	B26	13	1	9	5	7	2
Paratyphoid	A01.1-A01.4	5		6		11	
Pertussis	A37	147	17	399	77	271	63
Q fever	A78	1					
Rheumatic fever	I00, I01, I02	258	43	227	34	287	36
Rickettsial diseases	A75, A77, A79	8	1	2	1	6	
Rubella	B06	1	1	2			2
Salmonellosis	A02	107	30	127	47	126	40
Shigellosis	A03	22	6	12	8	26	3
Taeniasis	B689		1				1
Tetanus	A33-A35	2	2	5	4	4	2
Tuberculosis	A15-A19, P37.0	224	103	203	116	199	114
Typhoid	A01.0	35	5	47	5	47	3
Viral haemorrhagic fevers	A95, A98, A99	2					
VTEC/STEC infection	A04.0-A04.4	50	22	58	24	46	50
Yellow fever	A95	1	1				
Yersiniosis	A04.6	16	22	20	25	29	17

^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, 2013

Table 44. Number of cases and rate per 100 000 population of notifiable diseases by DHB, 2013

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	221	139.2	772	137.3	598	127.8	536	104.0	774	207.6	180	174.8	262	123.1	83	177.7	236	213.2	336	216.1
Cryptosporidiosis	28	17.6	121	21.5	86	18.4	57	11.1	215	57.7	62	60.2	36	16.9	4		37	33.4	136	87.5
Dengue fever	3		20	3.6	34	7.3	11	2.1	1		4		5	2.3			1		2	
Gastroenteritis ^b	5	3.1	70	12.5	59	12.6	37	7.2	33	8.9	9	8.7	20	9.4			7	6.3	1	
Giardiasis	47	29.6	171	30.4	189	40.4	189	36.7	179	48.0	57	55.3	99	46.5	14	30.0	49	44.3	63	40.5
Hepatitis A	4		5	0.9	7	1.5	9	1.7	1				2		1				7	4.5
Hepatitis B ^b	2		1		4		4		5	1.3			1							
Hepatitis C ^c	1				4		1		1								3			
Invasive pneumococcal disease	21	13.2	50	8.9	38	8.1	60	11.6	40	10.7	26	25.2	36	16.9	6	12.8	9	8.1	24	15.4
Legionellosis	4		27	4.8	11	2.4	19	3.7	5	1.3			6	2.8			2		2	
Leptospirosis	2		1		1		2		5	1.3	1		7	3.3			6	5.4	11	7.1
Listeriosis			3		3		2						3				2			
Malaria	1		8	1.4	9	1.9	7	1.4	2				1						1	
Measles							1				5	4.9								
Meningococcal disease	4		7	1.2	6	1.3	12	2.3	4		3		2		1		3		3	
Mumps	4		4		4		1				1		2						1	
Paratyphoid fever			7	1.2	7	1.5	2												1	
Pertussis	154	97.0	260	46.2	237	50.7	301	58.4	299	80.2	29	28.2	138	64.8	55	117.8	73	65.9	42	27.0
Rheumatic fever ^d	20	12.6	9	1.6	23	4.9	63	12.2	24	6.4	8	7.8	14	6.6	8	17.1	1		4	
Salmonellosis	51	32.1	116	20.6	134	28.6	83	16.1	94	25.2	19	18.4	54	25.4	17	36.4	20	18.1	31	19.9
Shigellosis	5	3.1	18	3.2	37	7.9	36	7.0	4		1		1				2		1	
Tuberculosis disease	1		22	3.9	57	12.2	56	10.9	24	6.4	6	5.8	10	4.7	2		6	5.4	6	3.9
Typhoid fever	1		5	0.9	13	2.8	21	4.1	1				2							
VTEC/STEC infection	11	6.9	27	4.8	20	4.3	23	4.5	44	11.8	3		10	4.7	1		9	8.1	2	
Yersiniosis	10	6.3	42	7.5	52	11.1	49	9.5	26	7.0	25	24.3	36	16.9	6	12.8	14	12.6	14	9.0

^a Table is continued on the following page.

^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 Includes rheumatic fever initial attack and recurrent cases.

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, 2013

Table 44. Number of cases and rate per 100 000 population of notifiable diseases by DHB, 2013 (continued)

Disease	District Health Board ^a																			
	Whanganui		MidCentral		Hutt Valley		Capital & 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	108	173.1	285	168.0	151	104.9	440	146.7	68	167.2	188	133.1	69	211.3	801	157.9	167	292.9	562	181.4
Cryptosporidiosis	20	32.1	46	27.1	40	27.8	104	34.7	13	32.0	21	14.9	8	24.5	191	37.6	38	66.7	85	27.4
Dengue fever	1				3		9	3.0	1		2				7	1.4	1		1	
Gastroenteritis ^b	23	36.9	69	40.7	75	52.1	95	31.7	9	22.1	4		8	24.5	19	3.7			16	5.2
Giardiasis	11	17.6	38	22.4	38	26.4	164	54.7	20	49.2	71	50.2	11	33.7	181	35.7	13	22.8	125	40.3
Hepatitis A	1		1				2				1				46	9.1	1		3	
Hepatitis B ^b	2				1						1		1		4				2	
Hepatitis C ^c	2				3		1				1				12	2.4			8	2.6
Invasive pneumococcal disease	10	16.0	17	10.0	11	7.6	28	9.3	7	17.2	13	9.2	6	18.4	40	7.9	8	14.0	30	9.7
Legionellosis			3		2		1				1		3		58	11.4	2		9	2.9
Leptospirosis	1		6	3.5					2		2		1		3		3		5	1.6
Listeriosis			1		1		1		1		1				1					
Malaria	1		6	3.5	1		3				1				6	1.2				
Measles							1								1					
Meningococcal disease	1		2		1		3								8	1.6	1		7	2.3
Mumps					1		1		1		1				1		1			
Paratyphoid fever					1		1				1				2		1		2	
Pertussis	46	73.7	114	67.2	106	73.7	227	75.7	39	95.9	472	334.0	60	183.8	581	114.5	52	91.2	254	82.0
Rheumatic fever ^d	1		1		10	6.9	9	3.0							9	1.8			1	
Salmonellosis	7	11.2	35	20.6	24	16.7	58	19.3	11	27.1	52	36.8	7	21.4	142	28.0	21	36.8	167	53.9
Shigellosis					3		7	2.3			1				7	1.4	2		12	3.9
Tuberculosis disease	1		7	4.1	7	4.9	37	12.3	2		4		1		23	4.5			6	1.9
Typhoid fever					1		1								4				1	
VTEC/STEC infection	1		3		1		4		1		3		2		27	5.3	5	8.8	10	3.2
Yersiniosis	4		13	7.7	14	9.7	52	17.3			1				101	19.9	8	14.0	17	5.5

^a Table is continued from the previous page.

^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 Includes rheumatic fever initial attack and recurrent cases.

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, 2013

Table 45. Number of cases and rate per 100 000 population of notifiable diseases by sex, 2013

Disease	Sex					
	Male		Female		Total ^a	
	Cases	Rate	Cases	Rate	Cases	Rate
Campylobacteriosis	3833	174.1	3004	132.3	6837	152.9
Cryptosporidiosis	618	28.1	729	32.1	1348	30.1
Dengue fever	67	3.0	39	1.7	106	2.4
Gastroenteritis (acute) ^b	247	11.2	312	13.7	559	12.5
Giardiasis	858	39.0	871	38.4	1729	38.7
Hepatitis A	41	1.9	50	2.2	91	2.0
Hepatitis B ^c	18	0.8	10	0.4	28	0.6
Hepatitis C ^c	21	1.0	16	0.7	37	0.8
Invasive pneumococcal disease	251	11.4	229	10.1	480	10.7
Legionellosis	104	4.7	51	2.2	155	3.5
Leptospirosis	52	2.4	7	0.3	59	1.3
Listeriosis	7	0.3	12	0.5	19	0.4
Malaria	32	1.5	15	0.7	47	1.1
Measles	3		5	0.2	8	0.2
Meningococcal disease	34	1.5	34	1.5	68	1.5
Mumps	13	0.6	10	0.4	23	0.5
Paratyphoid fever	14	0.6	11	0.5	25	0.6
Pertussis	1527	69.4	2011	88.6	3539	79.2
Rheumatic fever ^d	113	5.1	92	4.1	205	4.6
Salmonellosis	582	26.4	561	24.7	1143	25.6
Shigellosis	58	2.6	79	3.5	137	3.1
Tuberculosis disease	146	6.6	132	5.8	278	6.2
Typhoid fever	31	1.4	19	0.8	50	1.1
VTEC/STEC infection	86	3.9	121	5.3	207	4.6
Yersiniosis	256	11.6	228	10.0	484	10.8

^a Total includes cases where sex was unknown.

^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 Includes rheumatic fever initial attack and recurrent cases.

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, 2013

Table 46. Number of cases and rate per 100 000 population of notifiable diseases by age group, 2013

	<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	138	230.5	698	281.7	253	84.9	221	77.4	464	151.7	1091	170.7	754	134.7	862	139.2	877	150.7	744	167.7	735	170.8	6837	152.9
Cryptosporidiosis	39	65.1	418	168.7	185	62.1	81	28.4	61	19.9	163	25.5	210	37.5	86	13.9	48	8.3	38	8.6	19	4.4	1348	30.1
Dengue fever	0		1		1		4		5	1.6	20	3.1	25	4.5	15	2.4	19	3.3	9	2.0	7	1.6	106	2.4
Gastroenteritis ^b	23	38.4	71	28.7	19	6.4	12	4.2	20	6.5	64	10.0	66	11.8	73	11.8	47	8.1	47	10.6	89	20.7	559	12.5
Giardiasis	30	50.1	374	151	140	47.0	38	13.3	30	9.8	168	26.3	375	67.0	242	39.1	140	24.1	140	31.5	51	11.9	1729	38.7
Hepatitis A	0		13	5.2	20	6.7	14	4.9	4		15	2.3	10	1.8	5	0.8	6	1.0	3		1		91	2.0
Hepatitis B ^c	0								1		7	1.1	7	1.3	8	1.3	3				2		28	0.6
Hepatitis C ^c	0										11	1.7	10	1.8	8	1.3	8	1.4					37	0.8
Invasive pneumococcal disease	19	31.7	22	8.9	16	5.4	10	3.5	13	4.2	16	2.5	29	5.2	49	7.9	77	13.2	81	18.3	148	34.4	480	10.7
Legionellosis	0		1				1				5	0.8	2		21	3.4	27	4.6	43	9.7	55	12.8	155	3.5
Leptospirosis	0								2		15	2.3	9	1.6	11	1.8	17	2.9	5	1.1			59	1.3
Listeriosis	0				1						2		4		1		2		3		6	1.4	19	0.4
Malaria	0		1		2		3		4		20	3.1	6	1.1	3		4		3		1		47	1.1
Measles	1		1		2				4														8	0.2
Meningococcal disease	11	18.4	13	5.2	4		5	1.8	12	3.9	6	0.9	3		4		3		6	1.4	1		68	1.5
Mumps	1		4		5	1.7			3		3		3				4						23	0.5
Paratyphoid fever	0		2						6	2.0	9	1.4	3		1		4						25	0.6
Pertussis	264	440.9	556	224.4	366	122.8	221	77.4	136	44.5	315	49.3	414	73.9	522	84.3	369	63.4	219	49.4	157	36.5	3539	79.2
Rheumatic fever ^d	0				45	15.1	96	33.6	27	8.8	33	5.2	4										205	4.6
Salmonellosis	64	106.9	202	81.5	66	22.1	40	14.0	65	21.2	166	26.0	117	20.9	142	22.9	112	19.3	94	21.2	75	17.4	1143	25.6
Shigellosis	3		12	4.8	17	5.7	3		8	2.6	28	4.4	22	3.9	14	2.3	16	2.8	7	1.6	7	1.6	137	3.1
Tuberculosis disease	0		5	2.0	2		3		10	3.3	70	11	55	9.8	31	5.0	39	6.7	21	4.7	42	9.8	278	6.2
Typhoid fever	0		3		2		5	1.8	6	2.0	16	2.5	4		7	1.1	2		3		2		50	1.1
VTEC/STEC infection	12	20.0	66	26.6	21	7.0	16	5.6	13	4.2	20	3.1	10	1.8	8	1.3	12	2.1	14	3.2	15	3.5	207	4.6
Yersiniosis	41	68.5	97	39.2	22	7.4	25	8.8	16	5.2	60	9.4	43	7.7	46	7.4	54	9.3	32	7.2	47	10.9	484	10.8

^a Total includes cases where age was unknown.

^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 Includes rheumatic fever initial attack and recurrent cases.

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, 2013

Table 47. Number of cases and rate per 100 000 population of notifiable diseases by ethnic group, 2013

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	536	80.2	147	53.2	320	62.2	36	71.9	5348	180.5	6837	152.9
Cryptosporidiosis	157	23.5	35	12.7	42	8.2	14	28.0	1050	35.4	1348	30.1
Dengue fever	5	0.7	5	1.8	24	4.7	2		62	2.1	106	2.4
Gastroenteritis ^c	49	7.3	12	4.3	32	6.2	3		399	13.5	559	12.5
Giardiasis	97	14.5	16	5.8	77	15.0	30	59.9	1391	47.0	1729	38.7
Hepatitis A	16	2.4	21	7.6	11	2.1	2		40	1.4	91	2.0
Hepatitis B ^d	6	0.9	6	2.2	3		1		10	0.3	28	0.6
Hepatitis C ^d	8	1.2	1				1		27	0.9	37	0.8
Invasive pneumococcal disease	116	17.4	53	19.2	17	3.3	2		277	9.4	480	10.7
Legionellosis	7	1.0	4		4	0.8	5	10.0	132	4.5	155	3.5
Leptospirosis	10	1.5	3		2				43	1.5	59	1.3
Listeriosis	4				2				13	0.4	19	0.4
Malaria	1		6	2.2	20	3.9	5	10.0	14	0.5	47	1.1
Measles	6	0.9			1				1		8	0.2
Meningococcal disease	23	3.4	9	3.3	2				34	1.1	68	1.5
Mumps	5	0.7	5	1.8	5	1.0			8	0.3	23	0.5
Paratyphoid fever	1				9	1.8			15	0.5	25	0.6
Pertussis	488	73.0	236	85.4	115	22.4	15	30.0	2572	86.8	3539	79.2
Rheumatic fever ^e	99	14.8	93	33.7	6	1.2			6	0.2	205	4.6
Salmonellosis	77	11.5	56	20.3	84	16.3	13	26.0	846	28.6	1143	25.6
Shigellosis	4		52	18.8	13	2.5	3		50	1.7	137	3.1
Tuberculosis disease	27	4.0	41	14.8	165	32.1	14	28.0	26	0.9	278	6.2
Typhoid fever	2		32	11.6	14	2.7			2		50	1.1
VTEC/STEC infection	21	3.1	4	1.4	7	1.4			172	5.8	207	4.6
Yersiniosis	43	6.4	20	7.2	88	17.1	5	10.0	301	10.2	484	10.8

^aMiddle Eastern/Latin American/African.

^dOnly acute cases of this disease are notifiable.

^bTotal includes cases where ethnicity was unknown.

^eIncludes rheumatic fever initial attack and recurrent cases.

^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 are based on the proportion of people in each ethnic group from the estimated resident 2013 census population applied to the 2013 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, 1988–2013

Table 48. 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	2796	4187	3850	4148	5144	8101	7714	7442	7635	8924	11572	8161	8418
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	316	493	608	730
Giardiasis	N									1235	2127	2183	1793	1688
<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 - LAB	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									1022	284	153	1046	4140
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	1128	1860	1619	1244	1239	1340	1522	1334	1141	1177	2069	2077	1795
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).

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

^c Only acute cases of this disease are notifiable.

Notifiable disease cases by year and source, 1988–2013

Table 49. Number of notifiable disease cases by year and source, 2001–2013

Disease	Source ^a	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
AIDS	N	26	17	33	38	49	29	31	48	28	39	24	20	25
Campylobacteriosis	N	10 145	12 493	14 788	12 215	13 836	15 873	12 778	6694	7177	7346	6689	7016	6837
Cholera	N	3	1	1	2	0	0	1	0	0	2	0	0	0
Creutzfeldt-Jakob disease	N	1	3	6	8	3	5	8	5	8	5	4	9	6
Cryptosporidiosis	N	1208	975	817	611	888	737	924	764	854	954	610	877	1348
Dengue fever	N	93	70	55	8	11	19	114	113	139	50	42	76	106
Gastroenteritis	N	942	1088	1030	1363	560	938	625	687	713	502	570	765	559
Giardiasis	N	1604	1547	1570	1514	1231	1214	1402	1660	1639	1985	1934	1714	1729
<i>Haemophilus influenzae</i> type b	N	11	3	12	4	7	9	15	9	10	8	8	4	2
	L	8	3	9	3	6	8	13	4	8	8	8	4	2
Hepatitis A	N	61	106	70	49	51	123	42	89	44	46	26	82	91
Hepatitis B	N	56	67	61	38	59	61	72	37	55	51	51	39	28
Hepatitis C	N	58	53	40	24	29	35	30	22	32	17	26	31	37
Hydatid disease	N	7	2	0	1	2	0	6	7	2	4	6	1	7
Influenza - LAB	S	313	241	230	231	273	315	239	466	624	349	336	399	196
Legionellosis	N	46	49	77	62	85	52	64	73	74	173	158	150	155
	L	56	53	82	75	83	54	72	74	77	178	160	152	150
Leprosy	N	3	4	4	3	2	4	8	5	3	3	1	2	11
Leptospirosis	N	99	140	113	102	85	87	66	118	69	81	68	108	59
	L	113	181	149	113	109	66	40	73	49	58	45	78	46
Listeriosis	N	18	19	24	26	20	19	26	27	28	23	26	25	19
Malaria	N	54	61	46	33	32	30	25	40	50	44	52	38	47
Measles	N	82	21	66	32	18	18	24	12	248	48	596	68	8
Meningococcal disease	N	648	555	542	343	226	160	104	122	132	97	119	85	68
Mumps	N	56	64	56	45	61	47	73	76	63	41	51	26	23
Paratyphoid fever	N	32	16	18	28	25	23	23	25	25	19	13	22	25
Pertussis	N	1334	1068	585	3485	2719	1120	332	417	1398	872	1996	5898	3539
Rheumatic fever - initial attack	N	114	87	148	75	76	105	134	140	126	153	154	167	194
Rubella	N	30	33	26	23	13	7	10	9	4	4	22	4	1
Salmonellosis	N	2417	1880	1401	1081	1382	1335	1275	1339	1128	1146	1055	1081	1143
Shigellosis	N	157	112	87	140	183	102	129	113	119	104	101	132	137
Tetanus	N	4	1	2	1	1	1	1	0	1	7	0	2	1
Tuberculosis disease	N	369	380	422	373	330	350	283	293	298	304	307	293	278
Typhoid fever	N	27	23	20	31	30	42	48	29	34	31	45	44	50
VTEC/STEC infection	N	76	73	104	89	92	87	100	124	143	138	153	147	207
Yersiniosis	N	429	472	436	407	383	453	502	508	430	406	513	514	484

^a Source: notification (N), laboratory (L), sentinel isolates (S).

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

^c Only acute cases of this disease are notifiable.

Selected *Salmonella* serotypes and phage types, 2009–2013 (Enteric Reference Laboratory, ESR)Table 50. Number of laboratory-reported cases of salmonellosis for selected *Salmonella* serotypes and phage types, 2009–2013

Serotype ^a	2009	2010	2011	2012	2013
<i>S. Typhimurium</i>	661	594	495	459	481
1	94	36	54	35	30
12a	28	35	28	26	15
56 variant ^b	43	85	73	73	122
101	56	70	50	26	26
160	106	107	66	58	69
135	20	48	47	44	48
156	54	35	29	21	17
Other or unknown	288	213	176	176	154
<i>S. Enteritidis</i>	95	113	134	125	137
1b	4	5	8	9	14
11 ^c	39	49	56	52	27
Other or unknown	52	59	70	64	95
Other serotypes	366	437	410	460	523
<i>S. Agona</i>	10	12	20	11	11
<i>S. Brandenburg</i>	36	47	34	34	52
<i>S. Infantis</i>	71	54	65	52	70
<i>S. Mississipi</i>	14	9	13	12	20
<i>S. Montevideo</i>	9	13	1	26	11
<i>S. Saintpaul</i>	26	34	31	27	43
<i>S. Stanley</i>	9	28	28	22	31
<i>S. Virchow</i>	12	16	18	17	15
<i>S. Weltevreden</i>	10	23	16	24	28
<i>S. enterica</i> (I) ser. 4,[5],12 : i : -	8	21	21	38	27
Other or unknown	188	224	201	197	215
Total	1 122	1 144	1 039	1 044	1 141

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

^b Prior to 2013, *S. Typhimurium* phage type 56 variant was known as *S. Typhimurium* RDNC-May 06

^c Prior to 2012, *S. Enteritidis* phage type 11 was known as a 9a. Further typing was performed on isolates previously confirmed as *S. Enteritidis* phage type 9a, however, typing results revealed that some isolates previously reported as *S. Enteritidis* phage type 9a were phage type 11.

