

# APPENDIX: NATIONAL DATA AND TRENDS

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## APPENDIX: NATIONAL DATA AND TRENDS

### Comparison of notifiable disease cases and rates for 2014 and 2013

**Table 28. Numbers of cases for rare (fewer than 10 cases reported in a single year) notifiable diseases in New Zealand, 2014 and 2013**

Disease <sup>a</sup>	2014	2013
Botulism	1	0
Brucellosis	0	1
Chikungunya fever	44	1
Creutzfeldt-Jakob disease <sup>b</sup>	6	6
<i>Cronobacter</i> species	0	1
Cysticercosis	1	1
Decompression sickness	0	2
Diphtheria	2	0
<i>Haemophilus influenzae</i> type b	5	2
Hepatitis NOS	8	2
Hydatid disease	4	7
Leprosy	4	11
Rickettsial disease	6	9
Ross River virus infection	1	3
Rubella	4	1
Taeniasis	5	6
Tetanus	0	1
Zika virus	57	0

<sup>a</sup> No cases of the following notifiable diseases were reported in 2014 or 2013: 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.

<sup>b</sup> Creutzfeldt-Jakob disease data is provided by the National CJD Registry, University of Otago.

## Deaths due to notifiable diseases, as recorded in EpiSurv, 1997–2014

Table 29. Deaths due to notifiable diseases, as recorded in EpiSurv, 1997–2014

Disease	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
AIDS <sup>a</sup>	34	19	18	19	14	11	10	13	15	14	5	2	2	8	1	3	6	3
Campylobacteriosis	2	2	1	3	1	1	0	0	1	1	1	0	0	0	0	0	1	0
Creutzfeldt-Jakob disease <sup>b</sup>	3	0	2	3	1	3	4	3	0	5	0	0	0	0	0	8	6	6
Gastroenteritis <sup>c</sup>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
Giardiasis	1	0	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	0
Hepatitis B	2	0	0	0	1	0	0	0	1	0	1	0	0	0	0	1	0	1
Hydatid disease	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Invasive pneumococcal disease <sup>d</sup>												8	35	27	32	32	18	22
Legionellosis <sup>e</sup>	4	1	1	5	2	3	1	1	4	3	1	4	2	5	4	6	3	1
Listeriosis - non-perinatal	2	0	1	2	1	0	2	3	1	0	2	3	2	3	1	4	2	3
Listeriosis - perinatal	6	0	2	4	1	3	2	2	4	1	2	2	2	4	0	2	3	2
Malaria	1	0	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	3
Non seasonal influenza A (H1N1) <sup>f</sup>													36	17	0	0	0	0
Pertussis	0	0	0	1	0	1	1	1	0	0	0	0	0	0	1	2	1	0
Primary amoebic meningoencephalitis	0	0	0	1	0	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	0
Salmonellosis	2	2	1	7	2	1	0	0	1	1	1	1	1	0	0	0	0	0
Shigellosis	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Tetanus	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0
Tuberculosis disease	15	8	14	8	2	6	6	6	4	6	3	4	4	9	3	5	2	4
VTEC/STEC infection	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Yersiniosis	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

<sup>a</sup> Data source: AIDS Epidemiology Group. [1]

<sup>b</sup> Data source: CJD Registry. [18]

<sup>c</sup> Cases of acute gastroenteritis from a common source or foodborne intoxication, eg, staphylococcal intoxication.

<sup>d</sup> Invasive pneumococcal disease became notifiable on 17 October 2008.

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.

<sup>e</sup> One further legionellosis death occurred in a laboratory-reported but non-notified case in 2002.

<sup>f</sup> 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.

## Morbidity data for selected notifiable diseases, 2012–2014 (Ministry of Health)

Table 30. Hospital admissions for selected notifiable diseases, 2012–2014

Disease	ICD 10 codes	2012		2013		2014	
		Prin <sup>a</sup>	Oth <sup>b</sup>	Prin <sup>a</sup>	Oth <sup>b</sup>	Prin <sup>a</sup>	Oth <sup>b</sup>
AIDS	B20-B24	7	259	7	266	10	254
Arboviral diseases	A83, A84, A85.2, A92, A93, A94, B33.1	1	1	1		16	1
Brucellosis	A23			1			
Campylobacteriosis	A04.5	548	117	591	128	606	111
Cholera	A00						
Creutzfeldt-Jakob disease	A81.0	8	3	5		8	3
Cryptosporidiosis	A07.2	42	12	38	21	22	4
Cysticercosis	B69		3	2	2	1	
Decompression sickness	T70.3	33	1	42	7	22	2
Dengue fever	A90, A91	16		35	1	66	2
Diphtheria	A36		1	1		1	1
Giardiasis	A07.1	27	23	24	23	42	25
Hepatitis A	B15	35	4	29	10	33	16
Hepatitis B	B16	24	27	18	26	25	30
Hepatitis C	B17.1	21	32	18	38	10	26
Hydatid disease	B67	8	5	5	10	8	14
Legionellosis	A48.1	69	15	79	10	50	27
Leprosy	A30	1	1		3	2	1
Leptospirosis	A27	69	12	47	5	33	10
Listeriosis	A32	14	14	13	11	14	13
Malaria	B50-B54	28		42	3	24	
Measles	B05	19		4	1	65	9
Meningococcal disease	A39	93	28	69	16	50	16
Mumps	B26	9	5	7	2	16	2
Paratyphoid	A01.1-A01.4	6		11		5	
Pertussis	A37	402	77	272	63	111	34
Q fever	A78						
Rheumatic fever	I00, I01, I02	231	36	291	37	219	32
Rickettsial diseases	A75, A77, A79	2		6		4	
Rubella	B06	2			2	1	1
Salmonellosis	A02	129	47	126	40	110	40
Shigellosis	A03	12	8	26	3	12	6
Taeniasis	B689				1		
Tetanus	A33-A35	5	4	4	2	1	
Tuberculosis	A15-A19, P37.0	212	112	199	118	289	134
Typhoid	A01.0	48	5	47	3	37	
Viral haemorrhagic fevers	A95, A98, A99						
VTEC/STEC infection	A04.0-A04.4	56	23	46	50	52	34
Yellow fever	A95						
Yersiniosis	A04.6	19	25	29	18	26	24

<sup>a</sup> Principal diagnosis.<sup>b</sup> 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, 2014

Table 31. Number of cases and rate per 100,000 population of notifiable diseases by DHB, 2014

Disease	District Health Board <sup>a</sup>																			
	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	248	149.4	754	134.0	587	124.4	517	101.5	764	199.2	173	167.0	327	150.4	73	155.0	170	147.8	294	184.4
Cryptosporidiosis	31	18.7	54	9.6	33	7.0	31	6.1	81	21.1	14	13.5	23	10.6	5	10.6	19	16.5	25	15.7
Dengue fever	3		32	5.7	46	9.7	39	7.7	8	2.1	2		15	6.9					2	
Gastroenteritis <sup>b</sup>	2		63	11.2	85	18.0	45	8.8	15	3.9	13	12.5	19	8.7			5	4.3		
Giardiasis	57	34.3	217	38.6	196	41.5	167	32.8	171	44.6	77	74.3	92	42.3	24	51.0	25	21.7	91	57.1
Hepatitis A	5	3.0	16	2.8	8	1.7	18	3.5	2		1		2						3	
Hepatitis B <sup>c</sup>	1		5	0.9	2		3		2				2		1				2	
Hepatitis C <sup>c</sup>	5	3.0	1		2								1				4		2	
Invasive pneumococcal disease	26	15.7	47	8.4	57	12.1	79	15.5	43	11.2	27	26.1	32	14.7	7	14.9	14	12.2	17	10.7
Legionellosis	8	4.8	17	3.0	6	1.3	20	3.9	2		1		5	2.3			1		1	
Leptospirosis	5	3.0	1				2		7	1.8	3		2				3		15	9.4
Listeriosis	1		2		4		7	1.4					3							
Malaria	1		1		11	2.3	5	1.0	3		1		1				1			
Measles	6	3.6	63	11.2	21	4.5	28	5.5	125	32.6	9	8.7	4		2		4		12	7.5
Meningococcal disease	3		3		3		1		5	1.3			3		1		1		2	
Mumps			2		3		2				1		2		1				1	
Paratyphoid fever			4		3		4		1								1			
Pertussis	38	22.9	203	36.1	104	22.0	161	31.6	123	32.1	19	18.3	41	18.9	10	21.2	27	23.5	41	25.7
Rheumatic fever <sup>d</sup>	18	10.8	14	2.5	22	4.7	84	16.5	17	4.4	7	6.8	7	3.2	10	21.2			4	
Salmonellosis	27	16.3	134	23.8	112	23.7	82	16.1	58	15.1	18	17.4	38	17.5	10	21.2	15	13.0	41	25.7
Shigellosis	2		14	2.5	29	6.1	33	6.5	8	2.1	2		2				3		2	
Tuberculosis disease	7	4.2	37	6.6	69	14.6	50	9.8	17	4.4	5	4.8	12	5.5	2		4		4	
Typhoid fever			1		12	2.5	15	2.9	1				3		1				1	
VTEC/STEC infection	11	6.6	17	3.0	14	3.0	16	3.1	39	10.2	6	5.8	9	4.1			7	6.1	2	
Yersiniosis	10	6.0	57	10.1	73	15.5	55	10.8	58	15.1	26	25.1	41	18.9	7	14.9	9	7.8	17	10.7

<sup>a</sup> Table is continued on the following page.

<sup>b</sup> Cases of acute gastroenteritis from a common source or foodborne intoxication, eg, staphylococcal intoxication.

<sup>c</sup> Only acute cases of this disease are notifiable.

<sup>d</sup> Includes rheumatic fever initial attack and recurrent cases.

Note: For fewer than five cases notified, a rate is not calculated and the cell is blank.

## Notifiable disease cases and rates by District Health Board, 2014

Table 31. Number of cases and rate per 100,000 population of notifiable diseases by DHB, 2014 (continued)

Disease	District Health Board <sup>a</sup>																			
	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	88	141.5	259	152.1	211	147.1	543	183.0	61	142.5	194	135.6	61	186.0	738	143.4	155	266.8	559	180.4
Cryptosporidiosis	8	12.9	20	11.7	9	6.3	29	9.8	11	25.7	17	11.9	9	27.4	85	16.5	20	34.4	60	19.4
Dengue fever			1		4		7	2.4			1				14	2.7	1		4	
Gastroenteritis <sup>b</sup>	22	35.4	142	83.4	85	59.3	197	66.4	4		6	4.2	4		39	7.6	1		8	2.6
Giardiasis	24	38.6	24	14.1	45	31.4	118	39.8	21	49.1	58	40.5	7	21.3	184	35.8	21	36.1	90	29.0
Hepatitis A	2		2		9	6.3	2								3		1			
Hepatitis B <sup>c</sup>					2		1				2				8	1.6			4	
Hepatitis C <sup>c</sup>					1		1				2				6	1.2			5	1.6
Invasive pneumococcal disease	10	16.1	21	12.3	13	9.1	30	10.1	6	14.0	6	4.2	1		41	8.0	4		27	8.7
Legionellosis			5	2.9	1		2				4		6	18.3	40	7.8	1		5	1.6
Leptospirosis	3		4						2		1		1		2				5	1.6
Listeriosis			3				1								1				3	
Malaria					2										6	1.2			1	
Measles							5	1.7							1					
Meningococcal disease			2		1		2		1		4				6	1.2	3		5	1.6
Mumps									1		1				5	1.0				
Paratyphoid fever			1		2										3				2	
Pertussis	1		12	7.0	27	18.8	90	30.3	1		62	43.3	4		122	23.7	4		37	11.9
Rheumatic fever <sup>d</sup>	1		1		4		9	3.0	2				1		4					
Salmonellosis	9	14.5	23	13.5	18	12.6	41	13.8	9	21.0	31	21.7	7	21.3	146	28.4	16	27.5	119	38.4
Shigellosis			1		2		12	4.0							6	1.2	2		10	3.2
Tuberculosis disease	2		14	8.2	12	8.4	37	12.5	2		2		1		25	4.9	1		2	
Typhoid fever					1		2				1				2				2	
VTEC/STEC infection	3		3		3		6	2.0	1		7	4.9			22	4.3	7	12.0	14	4.5
Yersiniosis	4		10	5.9	19	13.2	65	21.9	2		2		3		182	35.4	11	18.9	31	10.0

<sup>a</sup> Table is continued from the previous page.

<sup>b</sup> Cases of acute gastroenteritis from a common source or foodborne intoxication, eg, staphylococcal intoxication.

<sup>c</sup> Only acute cases of this disease are notifiable.

<sup>d</sup> Includes rheumatic fever initial attack and recurrent cases.

Note: For fewer than five cases notified, a rate is not been calculated and the cell is blank.

## Notifiable disease cases and rates by sex, 2014

Table 32. Number of cases and rate per 100,000 population of notifiable diseases by sex, 2014

Disease	Sex					
	Male		Female		Total <sup>a</sup>	
	Cases	Rate	Cases	Rate	Cases	Rate
Campylobacteriosis	3819	172.8	2952	128.3	6776	150.3
Cryptosporidiosis	274	12.4	310	13.5	584	12.9
Dengue fever	103	4.7	76	3.3	179	4.0
Gastroenteritis (acute) <sup>b</sup>	322	14.6	433	18.8	755	16.7
Giardiasis	876	39.6	833	36.2	1709	37.9
Hepatitis A	36	1.6	38	1.7	74	1.6
Hepatitis B <sup>c</sup>	24	1.1	11	0.5	35	0.8
Hepatitis C <sup>c</sup>	17	0.8	13	0.6	30	0.7
Invasive pneumococcal disease	271	12.3	237	10.3	508	11.3
Legionellosis	89	4.0	36	1.6	125	2.8
Leptospirosis	51	2.3	5	0.2	56	1.2
Listeriosis	12	0.5	13	0.6	25	0.6
Malaria	25	1.1	8	0.3	33	0.7
Measles	176	8.0	104	4.5	280	6.2
Meningococcal disease	24	1.1	22	1.0	46	1.0
Mumps	13	0.6	6	0.3	19	0.4
Paratyphoid fever	9	0.4	12	0.5	21	0.5
Pertussis	491	22.2	636	27.7	1127	25
Rheumatic fever <sup>d</sup>	116	5.2	89	3.9	205	4.5
Salmonellosis	467	21.1	487	21.2	954	21.2
Shigellosis	75	3.4	53	2.3	128	2.8
Tuberculosis disease	177	8.0	128	5.6	305	6.8
Typhoid fever	24	1.1	18	0.8	42	0.9
VTEC/STEC infection	80	3.6	107	4.7	187	4.1
Yersiniosis	342	15.5	340	14.8	682	15.1

<sup>a</sup> Total includes cases where sex was unknown.

<sup>b</sup> Cases of acute gastroenteritis from a common source or foodborne intoxication, eg, staphylococcal intoxication.

<sup>c</sup> Only acute cases of this disease are notifiable.

<sup>d</sup> Includes rheumatic fever initial attack and recurrent cases.

Note: For fewer than five cases notified, a rate is not calculated and the cell is blank.



## Notifiable disease cases and rates by age group, 2014

Table 33. Number of cases and rate per 100,000 population of notifiable diseases by age group, 2014

	<1 year		1–4 years		5–9 years		10–14 years		15–19 years		20–29 years		30–39 years		40–49 years		50–59 years		60–69 years		70+ years		Total <sup>a</sup>	
	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	139	236	655	262.1	315	102.8	239	80.8	358	114.2	1037	168.1	664	120.6	807	129.1	872	146.1	869	188.3	819	188.7	6776	150.3
Cryptosporidiosis	13	22.1	168	67.2	54	17.6	32	10.8	40	12.8	109	17.7	55	10.0	46	7.4	34	5.7	17	3.7	15	3.5	584	12.9
Dengue fever			1		1		5	1.7	6	1.9	30	4.9	37	6.7	28	4.5	40	6.7	29	6.3	2		179	4.0
Gastroenteritis <sup>b</sup>	38	64.5	155	62.0	18	5.9	6	2.0	25	8.0	68	11.0	75	13.6	81	13.0	78	13.1	59	12.8	138	31.8	755	16.7
Giardiasis	22	37.4	352	140.8	141	46.0	43	14.5	33	10.5	163	26.4	368	66.8	241	38.6	147	24.6	162	35.1	36	8.3	1709	37.9
Hepatitis A	1		4		9	2.9	3		7	2.2	16	2.6	10	1.8	7	1.1	7	1.2	5	1.1	5	1.2	74	1.6
Hepatitis B <sup>c</sup>	1				1				1		8	1.3	4		8	1.3	6	1.0	5	1.1	1		35	0.8
Hepatitis C <sup>c</sup>									4		9	1.5	9	1.6	4		4						30	0.7
Invasive pneumococcal disease	23	39.1	41	16.4	14	4.6	6	2.0	9	2.9	20	3.2	29	5.3	43	6.9	57	9.5	109	23.6	157	36.2	508	11.3
Legionellosis					1		1		1		3		3		18	2.9	19	3.2	35	7.6	44	10.1	125	2.8
Leptospirosis							1		1		9	1.5	10	1.8	13	2.1	16	2.7	4		2		56	1.2
Listeriosis											1		4		1		2		7	1.5	10	2.3	25	0.6
Malaria					1				4		12	1.9	3		2		7	1.2	3		1		33	0.7
Measles	14	23.8	31	12.4	19	6.2	80	27.0	93	29.7	26	4.2	10	1.8	7	1.1							280	6.2
Meningococcal disease	6	10.2	15	6.0	1				3		4		3		3		2		5	1.1	4		46	1.0
Mumps	1		1		6	2.0	2		1		2		3		1		1				1		19	0.4
Paratyphoid fever							1		3		9	1.5	5	0.9	1		1				1		21	0.5
Pertussis	89	151.1	131	52.4	76	24.8	58	19.6	43	13.7	116	18.8	133	24.2	169	27.0	127	21.3	108	23.4	77	17.7	1127	25
Rheumatic fever <sup>d</sup>			3		46	15.0	77	26.0	33	10.5	39	6.3	6	1.1	1								205	4.5
Salmonellosis	47	79.8	170	68.0	47	15.3	36	12.2	47	15.0	148	24.0	85	15.4	86	13.8	129	21.6	90	19.5	68	15.7	954	21.2
Shigellosis	2		10	4.0	10	3.3	2		5	1.6	21	3.4	19	3.5	21	3.4	19	3.2	13	2.8	6	1.4	128	2.8
Tuberculosis disease	1		11	4.4	5	1.6	2		13	4.1	73	11.8	62	11.3	40	6.4	32	5.4	30	6.5	36	8.3	305	6.8
Typhoid fever					4		1		7	2.2	14	2.3	8	1.5	3		3		2				42	0.9
VTEC/STEC infection	11	18.7	72	28.8	17	5.5	6	2.0	10	3.2	17	2.8	11	2.0	11	1.8	10	1.7	13	2.8	9	2.1	187	4.1
Yersiniosis	28	47.5	104	41.6	26	8.5	28	9.5	26	8.3	117	19.0	88	16	82	13.1	73	12.2	63	13.7	47	10.8	682	15.1

<sup>a</sup>Total includes cases where age was unknown.

<sup>b</sup>Cases of acute gastroenteritis from a common source or foodborne intoxication, eg, staphylococcal intoxication.

<sup>c</sup>Only acute cases of this disease are notifiable.

<sup>d</sup>Includes rheumatic fever initial attack and recurrent cases.

Note: For fewer than five cases notified, a rate is not calculated and the cell is blank.

## Notifiable disease cases and rates by ethnic group, 2014

Table 34. Number of cases and rate per 100,000 population of notifiable diseases by ethnic group, 2014

Disease	Ethnic group											
	Māori		Pacific peoples		Asian		MELAA <sup>a</sup>		European or Other		Total <sup>b</sup>	
	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate
Campylobacteriosis	506	75.2	139	50.1	313	61.3	43	86.4	5363	178.9	6776	150.3
Cryptosporidiosis	57	8.5	10	3.6	17	3.3	4		472	15.7	584	12.9
Dengue fever	2		29	10.5	39	7.6	3		82	2.7	179	4.0
Gastroenteritis <sup>c</sup>	56	8.3	19	6.8	56	11.0	2		541	18.9	755	16.7
Giardiasis	120	17.8	16	5.8	91	17.8	46	92.4	1301	43.4	1709	37.9
Hepatitis A	1		27	9.7	20	3.9	2		20	0.7	74	1.6
Hepatitis B <sup>d</sup>	3		3		7	1.4	1		18	0.6	35	0.8
Hepatitis C <sup>d</sup>	6	0.9	2				1		20	0.7	30	0.7
Invasive pneumococcal disease	118	17.5	67	24.1	24	4.7	2		270	9.0	508	11.3
Legionellosis	9	1.3	6	2.2	1				108	3.6	125	2.8
Leptospirosis	12	1.8	2		1		1		39	1.3	56	1.2
Listeriosis	2		3		5	1.0	1		14	0.5	25	0.6
Malaria			1		18	3.5	4		9	0.3	33	0.7
Measles	108	16.0	19	6.8	28	5.5	4		112	3.7	280	6.2
Meningococcal disease	16	2.4	4						25	0.8	46	1.0
Mumps	3		1		4		2		8	0.3	19	0.4
Paratyphoid fever					9	1.8			12	0.4	21	0.5
Pertussis	164	24.4	77	27.7	35	6.8	7	14.1	780	26.0	1127	25.0
Rheumatic fever <sup>e</sup>	91	13.5	108	38.9					6	0.2	205	4.5
Salmonellosis	103	15.3	41	14.8	86	16.8	6	12.1	657	21.9	954	21.2
Shigellosis	4		29	10.5	17	3.3	1		67	2.2	128	2.8
Tuberculosis disease	39	5.8	49	17.7	179	35.0	13	26.1	20	0.7	305	6.8
Typhoid fever	1		15	5.4	21	4.1	1		3		42	0.9
VTEC/STEC infection	20	3.0	1		11	2.2	1		148	4.9	187	4.1
Yersiniosis	52	7.7	31	11.2	128	25.1	8	16.1	440	14.7	682	15.1

<sup>a</sup>Middle Eastern/Latin American/African.

<sup>d</sup>Only acute cases of this disease are notifiable.

<sup>b</sup>Total includes cases where ethnicity was unknown.

<sup>e</sup>Includes rheumatic fever initial attack and recurrent cases.

<sup>c</sup>Cases 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 2013 census population applied to the 2014 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. For fewer than five cases notified, a rate is not calculated and the cell is blank.

## Notifiable disease cases by year and source, 1989–2014

Table 35. Number of notifiable disease cases by year and source, 1989–2001<sup>a</sup>

Disease	Source <sup>b</sup>	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
AIDS	N	59	73	78	50	70	44	49	76	43	29	33	26	26
Campylobacteriosis	N	4187	3850	4148	5144	8101	7714	7442	7635	8924	11572	8161	8418	10145
Cholera	N	0	5	0	0	0	2	2	0	0	1	1	0	3
Creutzfeldt-Jakob disease	N								2	1	0	2	3	1
Cryptosporidiosis	N								119	357	866	977	775	1208
Dengue fever	N	3	2	3	1	1	0	6	23	14	26	9	7	93
Gastroenteritis <sup>c</sup>	N								555	316	493	608	730	942
Giardiasis	N								1235	2127	2183	1793	1688	1604
<i>Haemophilus influenzae</i> type b	N								26	9	11	10	13	11
	L	121	143	148	166	118	75	14	24	8	10	9	10	8
Hepatitis A	N	134	150	224	288	257	179	338	311	347	145	119	107	61
Hepatitis B <sup>d</sup>	N	309	242	227	221	145	133	125	104	138	88	94	79	56
Hepatitis C <sup>d</sup>	N	13	11	25	89	91	79	88	59	92	102	96	80	58
Hydatid disease	N	0	4	0	4	4	1	5	3	2	2	8	3	7
Legionellosis	N	17	20	14	11	24	66	33	36	63	43	51	61	46
	L		21	42	60	76	121	76	60	109	107	65	56	56
Leprosy	N	4	1	4	5	3	1	1	10	3	3	10	4	3
Leptospirosis	N	90	117	106	70	116	70	65	56	52	75	59	98	99
	L	182	229	176	218	234	168	183	140	84	117	76	114	113
Listeriosis	N	10	16	26	16	11	8	13	10	35	17	19	22	18
Malaria	N	27	32	39	29	58	34	41	107	65	73	46	111	54
Measles	N								68	1984	164	107	64	82
Meningococcal disease	N	49	53	71	153	202	208	394	473	609	439	507	477	648
Mumps	N								76	90	85	56	50	56
Paratyphoid fever	N	0	1	1	2	10	7	24	20	25	18	17	24	32
Pertussis	N								1022	284	153	1046	4140	1334
Rheumatic fever - initial attack	N	148	90	97	70	81	98	88	110	93	66	97	108	114
Rubella	N								306	80	53	35	26	30
Salmonellosis	N	1860	1619	1244	1239	1340	1522	1334	1141	1177	2069	2077	1795	2417
Shigellosis	N	137	197	152	124	128	185	191	167	117	122	147	115	157
Tetanus	N	0	0	0	8	2	2	2	3	0	2	6	1	4
Tuberculosis disease	N	303	348	335	327	323	352	391	352	323	365	446	354	369
Typhoid fever	N	17	7	9	11	14	24	21	15	16	31	10	21	27
VTEC/STEC infection	N					3	3	6	7	13	48	64	67	76
Yersiniosis	N								330	488	546	503	396	429

<sup>a</sup> Table is continued on the following page.

<sup>b</sup> Source: notification (N), laboratory (L), sentinel isolates (S).

<sup>c</sup> Cases of acute gastroenteritis from a common source or foodborne intoxication, eg, staphylococcal intoxication.

<sup>d</sup> Only acute cases of this disease are notifiable.

## Notifiable disease cases by year and source, 1989–2014

Table 35. Number of notifiable disease cases by year and source, 2002–2014 <sup>a</sup> (continued)

Disease	Source <sup>b</sup>	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
AIDS	N	17	33	38	49	29	31	48	28	39	24	20	25	19
Campylobacteriosis	N	12493	14788	12215	13836	15873	12778	6694	7177	7346	6686	7016	6837	6776
Cholera	N	1	1	2	0	0	1	0	0	2	0	0	0	0
Creutzfeldt-Jakob disease	N	3	6	8	3	5	8	5	8	5	4	9	6	6
Cryptosporidiosis	N	975	817	611	888	737	924	764	854	954	610	877	1348	584
Dengue fever	N	70	55	8	11	19	114	113	139	50	42	76	106	179
Gastroenteritis <sup>c</sup>	N	1088	1030	1363	560	938	625	687	713	502	570	765	559	774
Giardiasis	N	1547	1570	1514	1231	1214	1402	1660	1639	1985	1934	1714	1729	1709
<i>Haemophilus influenzae</i> type b	N	3	12	4	7	9	15	9	10	8	8	4	2	5
	L	3	9	3	6	8	13	4	8	8	8	4	2	2
Hepatitis A	N	106	70	49	51	123	42	89	44	46	26	82	91	74
Hepatitis B <sup>d</sup>	N	67	61	38	59	61	72	37	55	51	51	39	28	35
Hepatitis C <sup>d</sup>	N	53	40	24	29	35	30	22	32	16	26	31	36	30
Hydatid disease	N	2	0	1	2	0	6	7	2	4	6	1	7	4
Legionellosis	N	49	77	62	85	52	64	73	74	173	158	150	151	125
	L	53	82	75	83	54	72	74	77	178	160	152	150	135
Leprosy	N	4	4	3	2	4	8	5	3	3	1	2	7	4
Leptospirosis	N	140	113	102	85	87	66	118	69	81	68	108	60	56
	L	181	149	113	109	66	40	73	49	58	45	78	46	40
Listeriosis	N	19	24	26	20	19	26	27	28	23	26	25	19	25
Malaria	N	61	46	33	32	30	25	40	50	44	52	38	47	33
Measles	N	21	66	32	18	18	24	12	248	48	596	68	8	280
Meningococcal disease	N	555	542	343	226	160	104	122	132	97	119	85	68	46
Mumps	N	64	56	45	61	47	73	76	63	41	51	26	23	19
Paratyphoid fever	N	16	18	28	25	23	23	25	25	19	13	22	25	21
Pertussis	N	1068	585	3485	2719	1120	332	417	1398	872	1996	5897	3540	1127
Rheumatic fever - initial attack	N	87	148	75	76	105	134	140	126	153	154	164	192	185
Rubella	N	33	26	23	13	7	10	9	4	4	22	4	1	4
Salmonellosis	N	1880	1401	1081	1382	1335	1275	1339	1128	1146	1055	1081	1143	954
Shigellosis	N	112	87	140	183	102	129	113	119	104	101	132	137	128
Tetanus	N	1	2	1	1	1	1	0	1	7	0	2	1	0
Tuberculosis disease	N	380	422	373	330	350	283	293	298	304	306	293	275	305
Typhoid fever	N	23	20	31	30	42	48	29	34	31	45	44	50	42
VTEC/STEC infection	N	73	104	89	92	87	100	124	143	138	153	147	205	187
Yersiniosis	N	472	436	407	383	453	502	508	430	406	513	514	484	682

<sup>a</sup> Table is continued from the previous page.

<sup>b</sup> Source: notification (N), laboratory isolate received at ESR (L), sentinel isolates (S).

<sup>c</sup> Cases of acute gastroenteritis from a common source or foodborne intoxication, eg, staphylococcal intoxication.

<sup>d</sup> Only acute cases of this disease are notifiable.

Selected *Salmonella* serotypes and phage types, 2010–2014 (Enteric Reference Laboratory, ESR)Table 36. Number of laboratory-reported cases of salmonellosis for selected *Salmonella* serotypes and phage types, 2010–2014

Serotype <sup>a</sup>	2010	2011	2012	2013	2014
<b><i>S. Typhimurium</i></b>	<b>594</b>	<b>495</b>	<b>459</b>	<b>481</b>	<b>392</b>
1	36	54	35	30	22
12a	35	28	26	15	20
56 variant <sup>b</sup>	85	73	73	122	72
101	70	50	26	26	41
135	48	46	44	48	35
156	35	29	21	17	9
160	107	66	58	69	27
Other phage types or unidentified	178	149	176	154	166
<b><i>S. Enteritidis</i></b>	<b>113</b>	<b>134</b>	<b>125</b>	<b>137</b>	<b>116</b>
1b	5	8	9	14	5
11 <sup>c</sup>	49	58	52	27	39
Other phage types or unidentified	59	68	64	96	72
<b>Other serotypes</b>	<b>437</b>	<b>410</b>	<b>460</b>	<b>523</b>	<b>450</b>
<i>S. Agona</i>	12	20	11	11	15
<i>S. Brandenburg</i>	47	34	34	52	35
<i>S. Infantis</i>	54	65	52	70	56
<i>S. Mississippi</i>	9	13	12	20	21
<i>S. Montevideo</i>	13	1	26	11	7
<i>S. Saintpaul</i>	34	31	27	43	26
<i>S. Stanley</i>	28	28	22	31	34
<i>S. Virchow</i>	16	18	17	15	5
<i>S. Weltevreden</i>	23	16	24	28	31
<i>S. enterica</i> (I) ser. 4,[5],12 : i : -	21	21	38	27	27
Other serotypes or unidentified	180	164	197	215	193
<b>Total</b>	<b>1144</b>	<b>1039</b>	<b>1044</b>	<b>1141</b>	<b>958</b>

<sup>a</sup> Excludes *S. Paratyphi* and *S. Typhi*.

<sup>b</sup> Before 2013, *S. Typhimurium* phage type 56 variant was known as *S. Typhimurium* RDNC-May 06.

<sup>c</sup> Before 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.

**E/S/R**

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