A. COMPARISON OF NOTIFIABLE DISEASE CASES AND RATES FOR 2004 AND 2005

Table 1. Cases and rates per 100 000 population of notifiable diseases in New Zealand during 2004 and 2005

Disease[a]	2004		2005		Change [d,e]
	Cases	Rates	Cases	Rates	
AIDS	38	1.0	49	1.3	→
Barmah Forest virus infection	1	0.0	2	0.1	→
Brucellosis	2	0.1	0	0.0	←
Campylobacteriosis	12213	326.8	13839	370.3	➔
Chemical poisoning from the environment	7	0.2	4	0.1	←
Cholera	2	0.1	1	0.0	←
Creutzfeldt-Jakob disease	8	0.2	3	0.1	←
Cryptosporidiosis	612	16.4	889	23.8	➔
Cysticercosis	0	0.0	3	0.1	→
Decompression sickness	0	0.0	1	0.0	→
Dengue fever	8	0.2	11	0.3	→
Gastroenteritis[b]	1363	36.5	557	14.9	➔
Giardiasis	1514	40.5	1230	32.9	➔
Haemophilus influenzae type b	4	0.1	7	0.2	→
Hepatitis A	49	1.3	51	1.4	→
Hepatitis B[c]	38	1.0	61	1.6	➔
Hepatitis C[c]	24	0.6	30	0.8	→
Hepatitis NOS	2	0.1	2	0.1	--
Hydatid disease	1	0.0	2	0.1	→
Lead absorption	95	2.5	71	1.9	←
Legionellosis	62	1.7	86	2.3	→
Leprosy	3	0.1	2	0.1	←
Leptospirosis	102	2.7	86	2.3	←
Listeriosis	26	0.7	20	0.5	←
Malaria	33	0.9	32	0.9	←
Measles	32	0.9	20	0.5	←
Meningococcal disease	343	9.2	227	6.1	➔
Mumps	45	1.2	62	1.7	→
Paratyphoid fever	28	0.7	25	0.7	←
Pertussis	3485	93.3	2720	72.8	➔
Rheumatic fever	75	2.0	78	2.1	→
Rickettsial disease	2	0.1	1	0.0	←
Ross River virus infection	5	0.1	1	0.0	←
Rubella	23	0.6	13	0.3	←
Salmonellosis	1081	28.9	1383	37.0	➔
Shigellosis	140	3.7	183	4.9	➔
Tetanus	1	0.0	1	0.0	--
Toxic shellfish poisoning	0	0.0	3	0.1	→
Tuberculosis disease	372	10.0	348	9.3	←
Typhoid fever	31	0.8	30	0.8	←
VTEC/STEC infection	89	2.4	92	2.5	→
Yersiniosis	420	11.2	407	10.9	←

[a] No cases of the following notifiable diseases were reported in 2005: anthrax, botulism, plague, poliomyelitis, rabies, taeniasis, trichinosis, primary amoebic meningoencephalitis

[b] Cases of gastroenteritis from a common source or foodborne intoxication e.g. staphylococcal intoxication

[c] Only acute cases of this disease are currently notifiable

[d] ➔= Significant decrease, ➔ = Significant increase, -- = No change, ← = Not significant decrease, → = not significant increase

[e] The Mantel-Haenszel chi-square test was used to determine statistical significance. P-values less than or equal to 0.05 are considered to be significant at the 95% level of confidence.

B. DEATHS FROM NOTIFIABLE DISEASES RECORDED IN EPISURV FROM 1997 TO 2005

Table 2. Deaths due to Notifiable Diseases recorded in EpiSurv from 1997 to 2005

Disease	1997	1998	1999	2000	2001	2002	2003	2004	2005
AIDS [a]	34	19	19	19	14	11	10	11	8
Campylobacteriosis	2	2	1	3	1	1	0	0	1
Creutzfeldt-Jakob disease [b]	3	0	2	3	1	3	4	3	0
Gastroenteritis	0	0	0	0	0	1	0	0	0
Giardiasis	1	0	0	0	0	0	0	0	0
Haemophilus influenzae type b	1	0	0	0	1	1	2	0	0
Hepatitis B	2	0	0	0	1	0	0	0	1
Hydatid disease	0	0	0	1	0	0	0	0	0
Legionellosis [c]	4	1	1	5	2	3	1	1	4
Listeriosis - non perinatal	2	0	1	2	1	0	2	3	1
Listeriosis - perinatal	6	0	2	4	1	3	2	2	0
Malaria	1	0	0	0	0	0	0	0	0
Meningococcal disease	24	23	23	17	26	18	13	8	14
Pertussis	0	0	0	0	1	1	1	1	0
Primary amoebic meningoencephalitis	0	0	0	1	0	0	0	0	0
Rheumatic fever [d]	1	0	0	0	0	0	0	0	0
Salmonellosis	2	2	1	7	2	1	0	0	1
Shigellosis	0	0	1	0	0	0	0	0	0
Tetanus	0	0	0	0	1	0	0	0	0
Tuberculosis	15	8	14	8	2	6	6	6	4
VTEC infection	1	1	0	0	0	0	0	0	0
Yersiniosis	0	2	0	0	0	0	0	1	0

[a] Data source [10]

[b] Data source [16]

[c] One further legionellosis death occurred in a laboratory-reported but non-notified case in 2002.

[d] The death was a rheumatic fever recurrence

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.

C. NZHIS MORTALITY DATA FOR SELECTED NOTIFIABLE DISEASES, 2001-2002

Table 3. Reported deaths from selected notifiable diseases, 2001 - 2002

		2001		2002[a]	
Disease	ICD 10 Codes	Underlying[b]	Contributory[c]	Underlying[b]	Contributory[c]
AIDS	B20-B24	13	4	11	1
Campylobacteriosis	A04.5	2	0	0	0
Creutzfeldt-Jakob disease	A81.0	4	0	1	0
Giardiasis	A07.1	1	0	0	0
Hepatitis A	B15	0	1	1	0
Hepatitis B	B16	3	4	0	1
Hepatitis C	B17.1	0	3	1	0
Hydatid disease	B67.0-B67.4	1	0	0	0
Legionellosis	A48.1	2	0	1	0
Leptospirosis	A27	1	0	1	0
Listeriosis	A32	1	0	1	0
Meningococcal disease	A39	24	0	16	0
Pertussis	A37	1	0	1	0
Rheumatic fever	I00, I01, I02	0	0	0	0
Salmonellosis	A02	2	0	0	0
Tetanus	A33-A35	1	0	0	0
Tuberculosis	A15-A19, P37.0	5	14	9	19

[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)

D. NZHIS MORBIDITY DATA FOR SELECTED NOTIFIABLE DISEASES, 2003-2005

Table 4. Hospital admissions for selected notifiable diseases, 2003 - 2005

Disease	ICD 10 Codes	2003		2004		2005	
		Principal diagnosis	Other relevant diagnosis	Principal diagnosis	Other relevant diagnosis	Principal diagnosis	Other relevant diagnosis
AIDS	B20-B24	26	260	16	263	16	296
Arboviral diseases	A83, A84, A85.2, A92, A93, A94, B33.1	1	0	4	0	4	2
Brucellosis	A23	0	1	0	1	0	0
Campylobacteriosis	A04.5	764	193	747	173	871	199
Cholera	A00	0	0	0	1	0	0
Creutzfeldt-Jakob disease	A81.0	4	2	12	2	3	0
Cryptosporidiosis	A07.2	35	11	16	8	34	8
Cysticercosis	B69	4	0	2	1	0	0
Decompression sickness	T70.3	13	1	9	0	8	1
Dengue fever	A90, A91	24	4	3	1	8	0
Diphtheria	A36	0	1	0	2	0	1
Giardiasis	A07.1	27	21	30	25	27	25
Hepatitis A	B15	19	26	12	16	21	15
Hepatitis B	B16	41	92	46	69	53	67
Hepatitis C	B17.1	10	8	6	14	8	6
Hydatid disease	B67.0-B67.4	1	2	0	2	0	0
Lead absorption	T56.0	6	1	8	1	1	2
Legionellosis	A48.1	24	6	10	3	33	7
Leprosy	A30	5	13	2	2	0	4
Leptospirosis	A27	60	11	69	4	52	11
Listeriosis	A32	13	16	13	18	8	11
Malaria	B50-B54	48	3	43	5	55	2
Measles	B05	9	1	4	1	3	0
Meningococcal disease	A39	548	125	401	64	266	59
Mumps	B26	8	2	7	1	17	2
Paratyphoid fever	A01.1-A01.4	7	0	10	0	4	0
Pertussis	A37	120	22	229	53	142	31
Poliomyelitis	A80	0	1	0	0	0	4
Rheumatic fever	I00, I01, I02	226	59	181	45	191	44
Rickettsial diseases	A75, A77, A78, A79	1	1	2	1	4	0
Rubella	B06	1	1	1	0	1	1
Salmonellosis	A02	157	46	105	42	130	36
Shigellosis	A03	24	7	26	5	20	2
Tetanus	A33-A35	1	2	2	3		1
Trichinellosis	B75	0	0	1	0	2	3
Tuberculosis	A15-A19, P37.0	549	266	503	198	394	148
Typhoid fever	A01.0	14	0	18	1	26	2
Yersiniosis	A04.6	7	11	17	13	12	15

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.

E. NOTIFIABLE DISEASE CASES AND RATES BY ETHNICITY, 2005

Table 5. Cases and rates per 100 000 population in 2005 by ethnic group

	Ethnicity											
	European		Maori		Pacific Peoples		Other Ethnicity		Unknown		Total	
Disease	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate
Campylobacteriosis	9486	363.4	653	124.1	132	65.9	585	234.2	2983		13839	370.3
Cryptosporidiosis	669	25.6	72	13.7	14	7.0	40	16.0	94		889	23.8
Dengue fever	5	0.2	1		0		3		2		11	0.3
Gastroenteritis	410	15.7	32	6.1	6	3.0	23	9.2	86		557	14.9
Giardiasis	826	31.6	58	11.0	20	10.0	72	28.8	254		1230	32.9
Haemophilus influenzae type b	4		0		3		0		0		7	0.2
Hepatitis A	28	1.1	4		10	5.0	8	3.2	1		51	1.4
Hepatitis B	21	0.8	11	2.1	10	5.0	17	6.8	2		61	1.6
Hepatitis C	18	0.7	6	1.1	1		3		2		30	0.8
Hydatid disease	2		0		0		0		0		2	
Lead absorption	54	2.1	5	1.0	1		2		9		71	1.9
Legionellosis	74	2.8	2		1		2		7		86	2.3
Leprosy	0		0		2		0		0		2	
Leptospirosis	58	2.2	16	3.0	0		0		12		86	2.3
Listeriosis	10	0.4	3		7	3.5	0		0		20	0.5
Malaria	16	0.6	0		6	3.0	9	3.6	1		32	0.9
Measles	15	0.6	1		1		2		1		20	0.5
Meningococcal disease	121	4.6	63	12.0	34	17.0	9	3.6	0		227	6.1
Mumps	27	1.0	16	3.0	4		8	3.2	7		62	1.7
Paratyphoid fever	12	0.5	3		0		7	2.8	3		25	0.7
Pertussis	2183	83.6	247	46.9	52	26.0	77	30.8	161		2720	72.8
Rheumatic fever	1		38	7.2	20	10.0	1		18		78	2.1
Rickettsial disease	1		0		0		0		0		1	
Rubella	10	0.4	0		0		1		2		13	0.3
Salmonellosis	967	37.0	139	26.4	32	16.0	67	26.8	178		1383	37.0
Shigellosis	68	2.6	45	8.6	26	13.0	14	5.6	30		183	4.9
Tetanus	1		0		0		0		0		1	
Tuberculosis disease	44	1.7	47	8.9	47	23.5	204	81.7	6		348	9.3
Typhoid fever	2		0		14	7.0	14	5.6	0		30	0.8
VTEC/STEC infection	73	2.8	13	2.5	1.0		3		2		92	2.5
Yersiniosis	238	9.1	26	4.9	3.0		52	20.8	88		407	10.9

Note : Where less than 5 cases have been notified no rate has been calculated and the cell has been left blank.

F. NOTIFIABLE DISEASE CASES AND RATES BY SEX, 2005

Table 6. Cases and rates per 100 000 population in 2005 by sex

	Sex							
	Male		Female		Unknown		Total	
Disease	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate
Campylobacteriosis	7370	404.3	6200	323.9	269		13839	370.3
Cryptosporidiosis	404	22.2	475	24.8	10		889	23.8
Dengue fever	3		8	0.4	0		11	0.3
Gastroenteritis	221	12.1	325	17.0	11		557	14.9
Giardiasis	629	34.5	561	29.3	40		1230	32.9
Haemophilus influenzae type b	2		5	0.3	0		7	0.2
Hepatitis A	25	1.4	26	1.4	0		51	1.4
Hepatitis B	39	2.1	20	1.0	2		61	1.6
Hepatitis C	13	0.7	17	0.9	0		30	0.8
Hydatid disease	1		1		0		2	
Lead absorption	55	3.0	15	0.8	1		71	1.9
Legionellosis	54	3.0	32	1.7	0		86	2.3
Leprosy	2		0		0		2	
Leptospirosis	80	4.4	6	0.3	0		86	2.3
Listeriosis – non perinatal	8	0.4	7	0.4	0		15	0.4
Malaria	23	1.3	7	0.4	2		32	0.9
Measles	11	0.6	9	0.5	0		20	0.5
Meningococcal disease	125	6.9	101	5.3	1		227	6.1
Mumps	34	1.9	28	1.5	0		62	1.7
Paratyphoid fever	11	0.6	12	0.6	2		25	0.7
Pertussis	1043	57.2	1657	86.6	20		2720	72.8
Rheumatic fever	46	2.5	26	1.4	6		78	2.1
Rickettsial disease	1		0		0		1	
Rubella	4		9	0.5	0		13	0.3
Salmonellosis	705	38.7	661	34.5	17		1383	37.0
Shigellosis	91	5.0	87	4.5	5		183	4.9
Tetanus	1		0		0		1	
Tuberculosis disease	180	9.9	167	8.7	1		348	9.3
Typhoid fever	18	1.0	8	0.4	4		30	0.8
VTEC/STEC infection	36	2.0	55	2.9	1		92	2.5
Yersiniosis	216	11.8	180	9.4	11		407	10.9

Note : Where less than 5 cases have been notified no rate has been calculated and the cell has been left blank.

G. NOTIFIABLE DISEASE CASES AND RATES BY AGE GROUP, 2005

Table 7. Cases and rates per 100 000 population in 2005 by age group

	Age Group																							
	<1		1 to 4		5 to 9		10 to 14		15 to 19		20 to 29		30 to 39		40 to 49		50 to 59		60 to 69		70+		Unknown		Total	
Disease	Cases	Rate	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	228	417.2	1105	511.2	614	214.5	576	198.1	969	365.3	2442	501.8	2004	347.5	1895	352.6	1642	392.5	1131	400.3	1078	334.2	155		13839	370.3
Cryptosporidiosis	31	56.7	312	144.3	133	46.5	57	19.6	42	15.8	111	22.8	88	15.3	62	11.5	29	6.9	18	6.4	3		3		889	23.8
Dengue fever	0		0		0		0		1		4		0		3		3		0		0		0		11	0.3
Gastroenteritis	11	20.1	44	20.4	10	3.5	6	2.1	22	8.3	72	14.8	86	14.9	72	13.4	78	18.6	40	14.2	73	22.6	43		557	14.9
Giardiasis	19	34.8	222	102.7	87	30.4	20	6.9	25	9.4	140	28.8	284	49.2	188	35	103	24.6	82	29	48	14.9	12		1230	32.9
H. influenzae type b	1		3		0		0		0		0		1		1		0		0		1		0		7	0.2
Hepatitis A	0		3		7	2.4	3		4		9	1.8	8	1.4	8	1.5	3		3		3		0		51	1.4
Hepatitis B	1		0		0		0		4		12	2.5	21	3.6	12	2.2	6	1.4	4		1		0		61	1.6
Hepatitis C	0		0		1		0		3		12	2.5	4		5	0.9	2		0		3		0		30	0.8
Hydatid disease	0		0		0		0		0		0		0		2		0		0		0		0		2	
Lead absorption	0		4		1		1		1		14	2.9	16	2.8	17	3.2	6	1.4	7	2.5	4		0		71	1.9
Legionellosis	0		0		0		0		0		3		3		15	2.8	18	4.3	17	6	30	9.3	0		86	2.3
Leprosy	0		0		0		1		0		0		0		1		0		0		0		0		2	
Leptospirosis	1		0		0		0		0		14	2.9	15	2.6	30	5.6	21	5	5	1.8	0		0		86	2.3
Listeriosis – non perinatal	1		0		0		0		0		0		0		1		4		2		7	2.2	0		15	0.4
Malaria	0		2		2		0		1		11	2.3	4		7	1.3	2		2		0		1		32	0.9
Measles	7	12.8	10	4.6	2		0		0		0		1		0		0		0		0		0		20	0.5
Meningococcal disease	29	53.1	39	18	20	7	31	10.7	41	15.5	27	5.5	10	1.7	12	2.2	7	1.7	6	2.1	5	1.6	0		227	6.1
Mumps	0		23	10.6	10	3.5	5	1.7	7	2.6	9	1.8	6	1	0		2		0		0		0		62	1.7
Paratyphoid fever	0		4		1		2		0		12	2.5	6	1	0		0		0		0		0		25	0.7
Pertussis	123	225.1	208	96.2	333	116.3	360	123.8	212	79.9	205	42.1	342	59.3	331	61.6	261	62.4	199	70.4	144	44.6	2		2720	72.8
Rheumatic fever	0		0		22	7.7	34	11.7	7	2.6	14	2.9	0		0		0		0		0		1		78	2.1
Rickettsial disease	0		0		0		0		0		0		0		0		1		0		0		0		1	
Rubella	2		10	4.6	1		0		0		0		0		0		0		0		0		0		13	0.3
Salmonellosis	68	124.4	286	132.3	110	38.4	69	23.7	78	29.4	178	36.6	159	27.6	158	29.4	117	28	78	27.6	79	24.5	3		1383	37
Shigellosis	2		19	8.8	17	5.9	6	2.1	7	2.6	36	7.4	28	4.9	27	5	23	5.5	10	3.5	8	2.5	0		183	4.9
Tetanus	0		0		0		0		0		0		0		0		0		0		1		0		1	
Tuberculosis disease	5	9.1	9	4.2	6	2.1	11	3.8	17	6.4	86	17.7	62	10.8	51	9.5	32	7.6	29	10.3	39	12.1	1		348	9.3
Typhoid fever	0		2		5	1.7	2		2		8	1.6	4		3		3		1		0		0		30	0.8
VTEC/STEC infection	10	18.3	36	16.7	10	3.5	6	2.1	3		4		3		4		7	1.7	2		7	2.2	0		92	2.5
Yersiniosis	25	45.7	79	36.5	14	4.9	21	7.2	12	4.5	50	10.3	36	6.2	58	10.8	43	10.3	24	8.5	35	10.9	10		407	10.9

Note : Where less than 5 cases have been notified no rate has been calculated and the cell has been left blank.

H. NOTIFIABLE DISEASE CASES AND RATES BY DISTRICT HEALTH BOARD, 2005

Table 8. Disease notifications and incidence rates per 100 000 population by District Health Board, 2005

Disease	Campylobacteriosis		Cryptosporidiosis		Dengue fever		Gastroenteritis		Giardiasis		Hepatitis A		Hepatitis B		Hepatitis C		Lead absorption		Legionellosis		Leptospirosis		Listeriosis		Malaria		Measles		Meningococcal disease		Mumps		Paratyphoid fever		Pertussis		Rheumatic fever		Rubella		Salmonellosis		Shigellosis		Tuberculosis disease		Typhoid fever		VTEC/STEC Infection		Yersiniosis	
District Health Board	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate
Northland	303	216.2	20	14.3	1		5	3.6	35	25.0	2		1		3		1		4		7	5.0	0		0		5	3.6	5	3.6	0		16	11.4	9	6.4	0		51	36.4	44	31.4	18	12.8	0		4		6	4.3
Waitemata	1668	388.1	30	7.0	2		72	16.8	138	32.1	7	1.6	13	3.0	0		5	1.2	15	3.5	0		2		4		5	1.2	21	4.9	7	1.6	4		69	16.1	3		3		134	31.2	21	4.9	55	12.8	2		3		41	9.5
Auckland	1364	370.9	36	9.8	2		80	21.8	173	47.0	5	1.4	10	2.7	2		6	1.6	3		0		4		1		1		16	4.4	6	1.6	3		34	9.2	1		4		112	30.5	37	10.1	73	19.9	5	1.4	7	1.9	47	12.8
Counties Manukau	1077	286.8	34	9.1	2		50	13.3	114	30.4	7	1.9	11	2.9	0		1		2		2		6	1.6	11	2.9	2		29	7.7	8	2.1	4		59	15.7	22	5.9	1		114	30.4	24	6.4	56	14.9	15	4.0	2		31	8.3
Waikato	1151	362.3	141	44.4	1		40	12.6	126	39.7	7	2.2	2		0		9	2.8	4		10	3.1	2		5	1.6	1		33	10.4	1		1		403	126.8	8	2.5	0		117	36.8	7	2.2	25	7.9	1		15	4.7	20	6.3
Lakes	289	301.1	60	62.5	0		5	5.2	37	38.5	0		0		2		1		0		1		1		0		0		7	7.3	1		0		70	72.9	1		0		29	30.2	2		6	6.3	1		3		9	9.4
Bay of Plenty	509	285.7	34	19.1	0		7	3.9	62	34.8	1		2		1		1		5	2.8	8	4.5	2		0		2		12	6.7	3		1		162	90.9	4		2		62	34.8	6	3.4	4		0		10	5.6	9	5.1
Tairawhiti	125	284.4	5	11.4	0		0		23	52.3	1		3		1		3		0		3		0		0		0		1		0		0		4		1		0		20	45.5	0		0		0		1		4	
Taranaki	422	409.5	19	18.4	0		4		9	8.7	3		0		0		3		2		3		0		0		0		3		1		0		14	13.6	0		0		29	28.1	1		3		0		1		5	4.9
Hawke's Bay	497	346.2	47	32.7	0		3		49	34.1	0		0		0		2		2		12	8.4	0		1		0		13	9.1	5	3.5	1		42	29.3	7	4.9	0		58	40.4	0		7	4.9	0		5	3.5	15	10.4
Whanganui	153	240.5	19	29.9	0		13	20.4	17	26.7	0		0		0		4		0		1		0		0		1		0		2		0		3		0		0		26	40.9	1		7	11.0	0		1		12	18.9
MidCentral	313	202.0	39	25.2	1		20	12.9	46	29.7	1		0		0		6	3.9	3		9	5.8	0		0		1		15	9.7	0		0		33	21.3	3		0		31	20	0		9	5.8	0		0		8	5.2
Hutt Valley	494	374.7	17	12.9	0		17	12.9	28	21.2	1		0		3		3		8	6.1	0		0		1		0		1		0		4		52	39.4	6	4.6	0		46	34.9	4		9	6.8	1		1		6	4.6
Capital and Coast	1185	482.0	87	35.4	2		68	27.7	121	49.2	0		3		0		9	3.7	2		1		1		5	2	0		10	4.1	6	2.4	2		65	26.4	12	4.9	1		77	31.3	12	4.9	32	13.0	1		4		48	19.5
Wairarapa	90	235.6	14	36.6	0		6	15.7	12	31.4	0		0		1		1		0		4		0		0		0		5	13.1	0		1		4		0		0		25	65.4	0		2		0		0		1	
Nelson Marlborough	398	325.0	30	24.5	0		12	9.8	33	26.9	0		1		1		1		0		3		2		1		0		6	4.9	2		0		139	113.5	1		1		79	64.5	2		4		0		1		15	12.2
West Coast	86	284.2	15	49.6	0		4		4		1		0		0		0		1		4		0		0		3		2		1		0		28	92.5	0		0		7	23.1	0		1		0		1		16	52.9
Canterbury	2011	470.9	117	27.4	0		103	24.1	137	32.1	12	2.8	8	1.9	15	3.5	5	1.2	29	6.8	4		0		3		3		25	5.9	9	2.1	2		981	229.7	0		1		187	43.8	12	2.8	27	6.3	2		12	2.8	69	16.2
South Canterbury	364	689.6	45	85.3	0		5	9.5	8	15.2	0		0		0		3		1		4		0		0		1		3		0		0		138	261.5	0		0		30	56.8	4		2		2		4		9	17.1
Otago	850	497.8	46	26.9	0		14	8.2	37	21.7	2		6	3.5	1		7	4.1	3		4		0		0		0		15	8.8	4		1		155	90.8	0		0		88	51.5	5	2.9	5	2.9	0		12	7.0	26	15.2
Southland	490	474.2	34	32.9	0		29	28.1	21	20.3	1		1		0		0		2		6	5.8	0		0		0		5	4.8	1		1		249	241.0	0		0		61	59	1		3		0		5	4.8	10	9.7
Total	13839	370.3	889	23.8	11	0.3	557	14.9	1230	32.9	51	1.4	61	1.6	30	0.8	71	1.9	86	2.3	86	2.3	20	0.5	32	0.9	20	0.5	227	6.1	62	1.7	25	0.7	2720	72.8	78	2.1	13	0.3	1383	37	183	4.9	348	9.3	30	0.8	92	2.5	407	10.9

Note : Where less than 5 cases have been notified no rate has been calculated and the cell has been left blank.

I. NOTIFIABLE DISEASE CASES BY YEAR AND SOURCE, 1985 – 2005

Table 9. Notifiable disease cases by year and source, 1985 – 2005

Note: cell is blank where data are unavailable

Disease	Source	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
AIDS	Notification	11	19	28	38	59	72	78	50	70	44	49	76	43	29	33	26	26	17	33	38	49
Campylobacteriosis	Notification	2390	2786	2921	2796	4187	3850	4148	5144	8101	7714	7442	7635	8924	11573	8161	8417	10146	12494	14790	12213	13839
Cholera	Notification	0	0	2	0	0	5	0	0	0	2	2	0	0	1	1	0	3	1	1	2	1
Creutzfeldt-Jakob disease	Notification												2	1	0	2	3	1	3	6	8	3
Cryptosporidiosis	Notification												119	357	866	977	775	1208	975	817	612	889
Dengue fever	Notification	1	3	0	1	3	2	3	1	1	0	6	23	14	26	9	7	93	70	55	8	11
Gastroenteritis	Notification												555	310	492	601	726	940	1087	1025	1363	557
Giardiasis	Notification												1235	2127	2183	1793	1688	1603	1547	1570	1514	1230
H. influenzae serotype b	Laboratory			93	107	121	143	148	166	118	75	14	24	8	10	9	10	8	3	9	3	6
	Notification												26	9	11	10	13	11	3	12	4	7
Hepatitis A	Notification	380	251	158	176	134	150	224	288	257	179	338	311	347	145	119	107	61	106	70	49	51
Hepatitis B	Notification	530	488	474	370	309	242	227	221	145	133	125	104	138	88	94	79	56	67	61	38	61
Hepatitis C	Notification	31	17	18	20	13	11	25	89	91	79	88	59	92	102	96	80	58	53	40	24	30
Hydatid disease	Notification	4	5	2	2	0	4	0	4	4	1	5	3	2	2	8	3	7	2	0	1	2
Influenza	Sentinel isolates	6	8	18	136	119	343	183	317	423	441	521	673	743	127	425	73	313	241	230	231	273
Legionellosis	Notification	87	95	91	62	17	20	14	11	24	66	33	36	63	43	51	61	46	49	77	62	86
	Laboratory						21	42	60	76	121	76	60	109	107	65	56	56	53	82	75	83
Leprosy	Notification	5	7	8	2	4	1	4	5	3	1	1	10	3	3	10	4	3	4	4	3	2
Leptospirosis	Notification	174	139	129	99	90	117	106	70	116	70	65	56	52	75	59	98	101	140	113	102	86
	Laboratory				192	182	229	176	218	234	168	183	140	84	117	76	114	113	181	149	113	109
Listeriosis	Notification	6	6	12	7	10	16	26	16	11	8	13	10	35	17	19	22	18	19	24	26	20
Malaria	Notification	44	31	22	25	27	32	39	29	58	34	41	107	65	73	46	111	54	61	46	33	32
Measles	Notification												68	1984	164	107	64	82	21	67	32	20
	Laboratory	145	135	26	5	5	7	355	53	4	4	15	25	1220	35	2	9	21	6	15	10	3
Meningococcal disease	Notification	107	190	179	83	49	53	71	153	202	208	394	473	609	439	507	477	648	555	542	343	227
Mumps	Notification												76	90	85	56	50	56	64	56	45	62
	Laboratory	61	132	28	5	105	26	23	10	25	245	66	20	14	8	5	2	22	18	11	12	7
Paratyphoid fever	Laboratory				23	13	30	22	13	23	30	24	20	25	18	17	24	32	16	18	28	25
Pertussis	Notification												1022	284	153	1046	4140	1334	1068	585	3485	2720
Rheumatic fever (initial attack)	Notification		12	215	153	148	90	97	70	81	98	88	110	95	65	71	136	114	87	148	73	75
Rubella	Notification												306	80	53	35	26	30	33	26	23	13
	Laboratory	120	30	50	95	114	168	81	27	244	104	1581	339	21	2	0	0	3	4	3	3	7
Salmonellosis	Notification	1234	1335	1140	1128	1860	1619	1244	1239	1340	1522	1334	1141	1177	2069	2077	1794	2417	1880	1401	1081	1383
Shigellosis	Notification	192	189	143	145	137	197	152	124	128	185	191	167	117	122	147	115	157	112	87	140	183
Tetanus	Notification	3	3	4	1	0	0	0	8	2	2	2	3	0	2	6	1	4	1	2	1	1
Tuberculosis	Notification	359	320	296	295	303	348	335	327	323	352	391	352	321	365	446	353	369	381	422	372	348
Typhoid fever	Notification	6	28	4	15	17	7	9	11	14	24	21	15	16	31	9	21	27	23	20	31	30
VTEC/STEC infection	Notification									3	3	6	7	13	48	64	67	76	73	104	89	92
Yersiniosis	Notification												330	488	546	503	396	429	476	439	420	407

J. PREVALENCE OF ANTIMICROBIAL RESISTANCE, 1991-2004

Table 10. Prevalence of antimicrobial resistance, 1991-2004

Pathogen	Antimicrobial	Percent resistance[a] (number tested)				
		1991-1993	1994-1996	1997-1999	2000-2002	2003-2004
S. aureus[b]	methicillin	0.6 (42839)	2.8 (58283)	4.9 (136356)	7.2 (251448)	7.6 (142259)
	erythromycin	6.8 (40425)	8.0 (54870)	10.8 (134350)	12.0 (221394)	12.1 (112948)
	co-trimoxazole	1.1 (27469)	0.8 (32926)	0.6 (91391)	1.2 (149166)	2.4 (85208)
	mupirocin	NA[c]	10.1 (9291)	18.2 (37173)	20.0 (91555)	16.8 (24659)
Methicillin-resistant *S. aureus*[d]	erythromycin	58.2 (701)	31.5 (2249)	26.2 (1303)	40.0 (1409)	46.8 (1063)
	co-trimoxazole	24.8 (701)	8.6 (2249)	1.8 (1303)	6.7 (1409)	8.4 (1063)
	mupirocin	2.0 (701)	6.4 (2244)	6.0 (1303)	8.5 (1409)	8.8 (1063)
	rifampicin	13.0 (701)	0.3 (2249)	0.8 (1303)	0.7 (1409)	0.6 (1063)
S. pneumoniae, non-invasive disease[b]	penicillin[e]	0.8 (3720)	9.5 (7076)	19.0 (10976)	22.8 (12047)	27.1 (10955)
	erythromycin	1.3 (3554)	8.3 (6832)	14.5 (11212)	18.6 (14404)	19.9 (8088)
	tetracycline	1.7 (3376)	10.5 (5019)	11.2 (5993)	15.4 (9476)	18.4 (5111)
S. pneumoniae, invasive disease[f]	penicillin[e]	1.4 (694)	3.4 (989)	15.0 (1182)	15.3 (1493)	17.3 (1068)
	erythromycin	1.9 (694)	2.6 (989)	4.1 (853)	7.3 (1492)	8.9 (1068)
	cefotaxime[e]	0.1 (694)	1.8 (989)	7.3 (1182)	6.1 (1493)	12.5 (1068)
Enterococcus spp[b]	amoxicillin[g]	2.3 (2573)	1.5 (7373)	2.4 (17548)	3.0 (22566)	3.2 (16290)
	vancomycin	0 (148)	0.2 (1141)	0.5 (4752)	0.3 (7505)	0.1 (6602)
E. coli, urinary isolates[b]	amoxicillin[g]	56.2 (29394)	55.9(48706)	56.0(138712)	54.4 (194799)	51.5 (82334)
	co-amoxiclav	6.9 (27249)	10.6(42666)	12.2(136326)	9.6 (194950)	8.9 (90992)
	trimethoprim	18.8 (29340)	19.6(48098)	22.6(111710)	22.3 (207837)	22.0 (97065)
	nitrofurantoin	2.2 (28331)	1.6 (48123)	1.7 (124362)	1.5 (206149)	1.4 (97580)
	fluoroquinolone	0.2 (7014)	0.5 (40032)	0.6 (118917)	1.6 (201382)	1.8 (95925)
E. coli, non-urinary isolates[b,h]	co-amoxiclav	18.3 (2318)	22.8 (7358)	21.8 (15948)	17.5 (11508)	15.5 (4299)
	cefuroxime	2.3 (1158)	3.2 (6309)	4.5 (6893)	4.2 (6576)	3.4 (3428)
	gentamicin	0.5 (3200)	0.8 (10352)	0.9 (13789)	2.4 (10392)	2.6 (4414)
	fluoroquinolone	0.1 (728)	0.5 (4717)	0.8 (10800)	2.4 (8821)	3.7 (3368)
P. aeruginosa[b]	gentamicin	5.8 (5918)	12.5 (9556)	9.5 (20542)	10.5 (25561)	6.7 (16531)
	tobramycin	3.1 (2535)	3.9 (6757)	2.8 (11033)	3.6 (10421)	3.2 (5354)
	ceftazidime	6.6 (1006)	5.0 (4832)	5.2 (11147)	3.9 (13253)	4.3 (11579)
	fluoroquinolone	8.4 (1652)	8.8 (8123)	9.9 (16551)	9.3 (22869)	8.6 (16588)
H. influenzae, non-invasive disease[b]	amoxicillin[g]	8.4 (4131)	12.0(12244)	19.3 (18852)	21.9 (28476)	21.5 (11929)
	co-amoxiclav	1.1 (1136)	1.1 (9839)	0.6 (15040)	0.8 (16333)	1.0 (10304)
	co-trimoxazole	11.4 (1581)	11.9 (6605)	14.7 (13964)	17.3 (22443)	18.3 (12286)
	tetracycline	1.7 (2082)	1.0 (7810)	1.5 (13007)	1.2 (15633)	0.9 (9134)
H. influenzae, invasive disease[f]	amoxicillin[g]	13.2 (478)	21.8 (179)	11.5 (122)	19.2 (125)	28.7 (115)
	co-amoxiclav	0.2 (478)	3.4 (179)	1.6 (122)	1.6 (125)	6.1 (115)
	cefuroxime	0.8 (478)	3.4 (179)	4.9 (122)	0.8 (125)	6.1 (115)
N. meningitidis, invasive disease[f]	penicillin[i]	2.1 (291)	3.9 (659)	7.9 (431)	7.5 (796)	11.1 (423)
	rifampicin	0.3 (291)	0 (659)	0 (431)	0 (796)	0.2 (423)
N. gonorrhoeae[b,j]	penicillin	16.4 (85)	11.6 (879)	10.4 (1437)	7.1 (2782)	6.0 (3339)
	fluoroquinolone	0 (85)	0.7 (864)	1.8 (1437)	6.3 (2349)	13.1 (2679)
M. tuberculosis[b]	isoniazid	NA	4.6 (438)	8.2 (757)	8.5 (811)	9.5 (610)
	rifampicin	NA	0.7 (438)	1.3 (757)	0.7 (811)	0.8 (610)
	MDR[k]	NA	0.7 (438)	0.9 (757)	0.5 (811)	0.8 (610)

[a] intermediate resistance not included in resistant category unless otherwise stated (refer footnotes e and i below)
[b] collated clinical laboratory data
[c] NA = not available
[d] MRSA isolates tested by ESR
[e] includes intermediate resistant and resistant isolates
[f] invasive disease isolates tested by ESR
[g] ampicillin used in laboratory testing
[h] from 2004, data based on *E. coli* from bacteraemia
[i] reduced susceptibility (MIC 0.12-0. 5 mg/L)
[j] data from northern North Island only up until 2000, thereafter national data used
[k] multidrug resistant (i.e. resistant to at least isoniazid and rifampicin)