

MONTHLY NOTIFIABLE DISEASE SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by public health service staff up until 4 November 2009. As this information may be updated over time, the results should be regarded as provisional only.

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1. Key notifiable disease trends

- Measles:** 16 cases of measles (3 confirmed, 4 probable, and 9 under investigation) were notified in October 2009 compared to 42 notifications in the preceding month and zero in the same month of the previous year (Figure 1). There were two laboratory confirmed cases. The highest number of cases was reported by Auckland DHB (5 cases, 1 probable and 4 under investigation). Three cases were hospitalised. For more information on the measles situation in New Zealand, including the age, ethnicity, and vaccination status of cases, please refer to the Measles Report available from <http://www.surv.esr.cri.nz/surveillance/WeeklyMeaslesRpt.php>.
- Meningococcal disease:** Based on the earliest date available¹, 11 cases (all laboratory-confirmed) of meningococcal disease were notified during October 2009. In comparison, 13 cases were notified the previous month, September 2009, and eight cases were notified during the same month last year, October 2008. For the 12 month period ending 31 October 2009, Tairāwhiti DHB recorded the highest incidence rate (10.9 per 100 000 population, 5 cases), followed by Wairarapa DHB (7.5 per 100 000 population, 3 cases) and Hawke's Bay DHB (6.5 per 100 000 population, 10 cases). The age-specific incidence rate was highest in infants aged less than one year (46.8 per 100 000 population, 30 cases), followed by those in the 1-4 years age group (14.8 per 100 000 population, 35 cases) and those in the 15-19 years age group (6.8 per 100 000 population, 22 cases).
- Mumps:** 12 cases of mumps (5 confirmed, 2 probable, and 5 under investigation) were notified in October 2009 compared to 7 in the preceding month and zero notifications in the same month of the previous year. The cases were reported from Waitemata (3), Auckland (2), Counties Manukau (2), Lakes (1), Bay of Plenty (1), Hutt Valley (1), Nelson Marlborough (1), and Canterbury (1) DHBs. The highest number of cases was recorded by

¹ The 'earliest' date refers to the earliest recorded date for the case (onset or hospitalisation date rather than report date, if available). 'Earliest' date, as opposed to 'report date' alone, is used throughout the analysis of meningococcal disease notification data.

those in the 1-4 years age group (5). Of the five confirmed cases, two had received one dose of vaccine (two children aged 10-14 years), one was reported to be immunised but dose information was not available (aged 10-14 years), and the immunisation status of the two remaining adult cases is unknown. One case was hospitalised.

- *Non-seasonal influenza:* In New Zealand, non-seasonal influenza became notifiable on 29 April 2009. Twenty-two cases of non-seasonal influenza A (H1N1) were notified in October 2009 (all confirmed cases) compared with 22 cases in the preceding month. There were five hospitalised cases. The highest number of cases was reported by Counties Manukau DHB (7), followed by Canterbury DHB (6). For the latest information on the non seasonal influenza A (H1N1) situation in New Zealand see <http://www.moh.govt.nz/influenza-a-h1n1>.
- *Pertussis:* 120 cases of pertussis were notified in October 2009, compared to 129 notifications in the preceding month and 61 notifications in the same month of the previous year. There were 35 (29.2%) laboratory-confirmed cases. The highest numbers of cases were reported by Waikato DHB (31), followed by Canterbury (24) and Capital and Coast (11) DHBs. For the 12 month period ending 31 October 2009, the highest incidence rates were reported from West Coast (86.5 per 100 000 population, 28 cases) and Nelson Marlborough (67.8 per 100 000, 92 cases) DHBs compared to a national rate of 29.1 per 100 000 population. The current 12-month rate by age group was highest amongst infants aged less than one year (170.1 per 100 000 population, 109 cases), followed by children in the 1-4 years age group (55.5 per 100 000 population, 131 cases).
- *Rickettsial Disease (including Q Fever):* One case of murine typhus and two cases of Q Fever were notified in October 2009. The lab-confirmed murine typhus case was a 15-19 year old male from Waikato DHB and was hospitalised. The case had not travelled overseas during the disease incubation period and the probable source of the disease is thought to be contact with rats on a farm. The two cases of Q Fever were both from Bay of Plenty DHB. One case is likely to have been exposed in the 1980s in Queensland but does not have a chronic ongoing infection and will be made 'not a case'. The second case is still under investigation. Repeat serology is awaited as the diagnosis is uncertain. The case was travelling overseas prior to the onset of their symptoms.
- *Shigellosis:* 12 cases of shigellosis were notified in October 2009 compared to five notified cases in the same month of the previous year. The cases were reported from Auckland (4), Waitemata (2), Northland, Waikato, Bay of Plenty, Hutt Valley, West Coast and South Canterbury DHBs (1 case each). The serotype involved was identified for seven of the cases; *Shigella sonnei* biotype g (5), *S. flexneri* 2a (1) and *S. sonnei* biotype a (1). Three cases reported overseas travel during the incubation period; India (2) and Peoples Republic of China (1).
- *VTEC/STEC infection:* 17 cases of VTEC/STEC infection were notified in October 2009, compared to 15 in the preceding month and four notifications in the same month of the previous year (Figure 2). The highest numbers of cases were reported from Waikato (4), Waitemata (2) and Canterbury (2) DHBs. The cases were aged between 1-4 years and 60-69 years, with the highest number of cases in the 1-4 years age group (8). *Escherichia coli* O157:H7 was isolated for all of the cases. Risk factors recorded include: 80% had contact with farm animals (4/5), 33.3% had attended school (3/9), 25.0% had contact with another person with similar symptoms (2/8), 11.1% had recreational water contact (1/9), and 14.3% had consumed water from a non habitual water supply (1/7).

2. Outbreaks

Completed outbreak reports: 25 outbreak reports were entered into EpiSurv and completed during October 2009 (Table 1).

Table 1: Summary of completed outbreaks reported to ESR during October 2009

Organism/Toxin/Illness	Health District(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Taranaki, Wellington	4	14
<i>Cryptosporidium</i>	Auckland, West Coast	3	7
Gastroenteritis	Taranaki, Hutt, Wellington, Canterbury	4	27
<i>Giardia</i>	Auckland	1	3
Norovirus	Auckland, Waikato, Manawatu, Hutt, West Coast, Canterbury, Otago	13	259
Total		25	310

Interim outbreak reports: 41 interim outbreaks have been reported in October 2009. The status of the outbreak and cases involved are subject to change, as more data becomes available.

Table 2: Summary of interim outbreaks reported to ESR during October 2009

Organism/Toxin/Illness	Health District(s) where exposure occurred	Number of outbreaks	Total number of cases
<i>Bordetella pertussis</i>	Taranaki, Hutt, Wellington	3	5
<i>Campylobacter</i>	Waikato	1	2
<i>Cryptosporidium</i>	Auckland	1	4
Gastroenteritis	Auckland, Tauranga, Hawke's Bay, Manawatu, Wairarapa, Canterbury, Otago, Southland	28	219
<i>Giardia</i>	Auckland	3	9
Norovirus	Tauranga, Manawatu, South Canterbury, Otago	5	78
Total		41	317

3. Deaths from notifiable diseases

One death was reported for the month of October from invasive pneumococcal disease (Table 3).

Table 3: Summary of deaths from notifiable diseases reported to ESR during October 2009

Disease	District Health Board	Age group
Invasive pneumococcal disease	Bay of Plenty	70+

4. Trends in selected diseases to October 2009

Figure 1: Measles notifications by month by year, January 2004 – October 2009

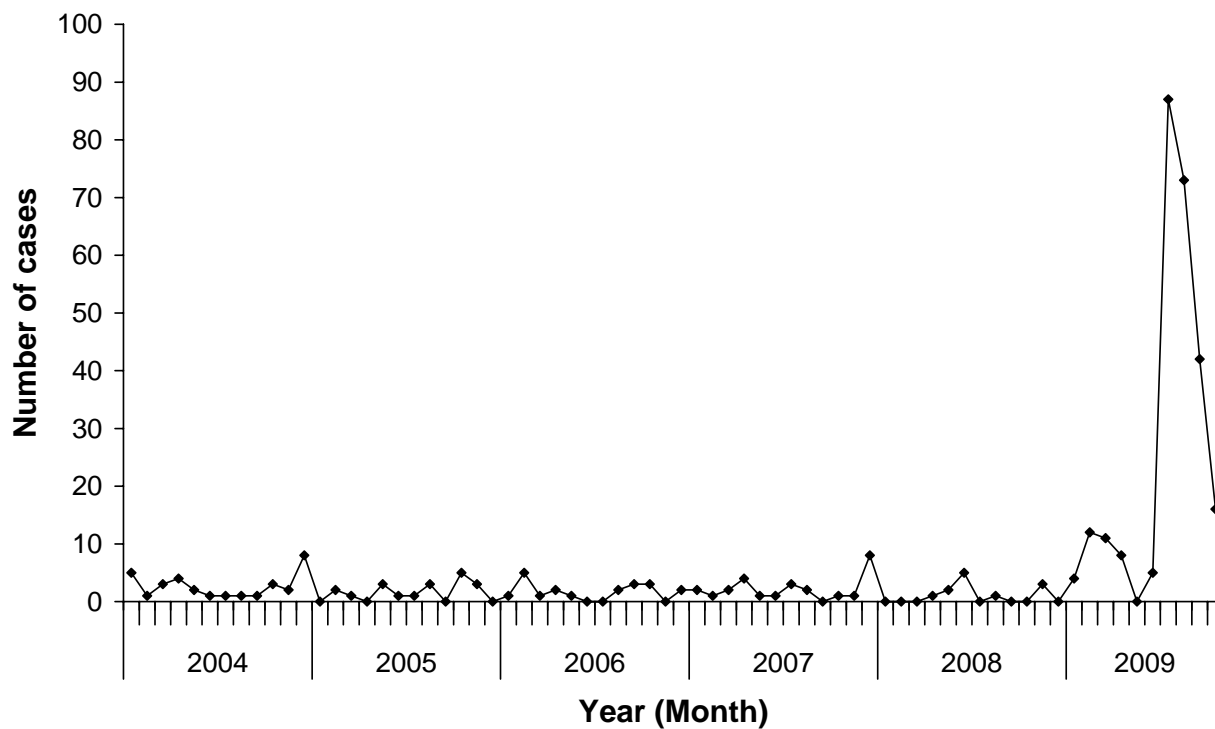
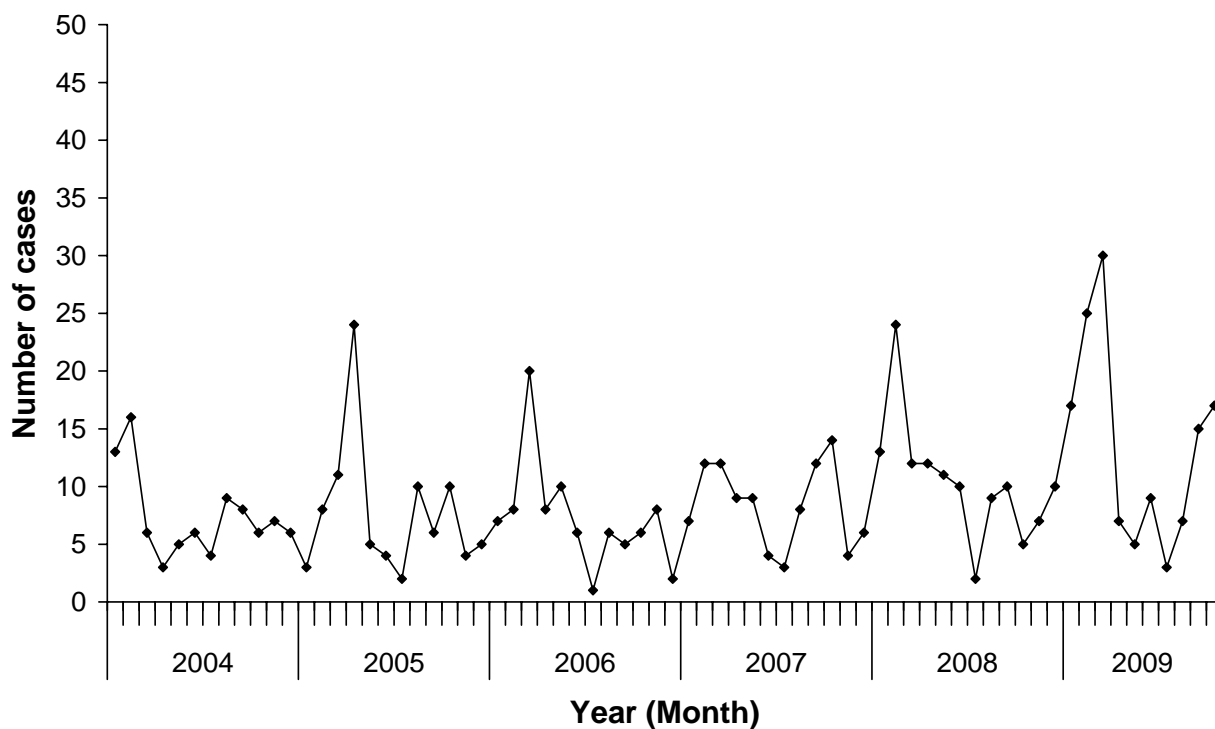


Figure 2: VTEC/STEC infection notifications by month by year, January 2004 – October 2009



5. Data Tables

National Notifiable Disease Surveillance Data October 2009

Disease	Current Year - 2009 ¹			Previous Year - 2008		
	October 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	October 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	622	5309	164.6	632	4977	164.3
Cryptosporidiosis	169	701	19.2	197	647	17.5
Dengue fever	5	133	3.7	8	88	2.3
Gastroenteritis	61	613	18.4	78	514	14.8
Giardiasis	101	1366	38.3	120	1392	37.6
Haemophilus influenzae type b	2	9	0.2	2	9	0.2
Hazardous substances injury	1	4	0.2	0	3	0.1
Hepatitis A	9	42	1.2	8	79	2.0
Hepatitis B ⁴	3	53	1.3	2	34	1.1
Hepatitis C ⁴	2	34	0.9	2	19	0.5
Invasive pneumococcal disease ⁵	72	619	16.9	26	26	0.6
Lead absorption	37	334	9.4	22	248	6.3
Legionellosis	11	64	2.0	7	50	1.5
Leptospirosis	9	59	2.0	10	93	2.4
Listeriosis	2	25	0.7	2	23	0.7
Malaria	5	45	1.2	7	35	1.0
Measles	16	258	6.1	0	9	0.4
Meningococcal disease ⁶	11	118	3.3	8	101	2.7
Mumps	12	61	1.6	0	67	1.9
Non seasonal influenza A (H1N1) ⁷	22	3657	85.7	0	0	0.0
Paratyphoid fever	1	21	0.6	1	22	0.7
Pertussis	120	1121	29.1	61	297	8.0
Rheumatic fever	6	127	3.3	11	137	3.4
Rickettsial disease	3	9	0.2	0	10	0.2
Rubella	0	6	0.2	0	7	0.3
Salmonellosis	84	967	28.3	97	1106	31.2
Shigellosis	12	110	3.0	5	95	2.5
Tuberculosis disease	21	260	7.2	27	251	7.0
Typhoid fever	1	33	0.8	2	26	0.7
VTEC/STEC infection	17	135	3.6	4	107	2.7
Yersiniosis	37	366	10.3	33	437	12.5

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including October 2009) or the previous year (12 months up to and including October 2008), expressed as cases per 100 000

³ Cases of gastroenteritis from a common source or foodborne intoxication

⁴ Only acute cases of this disease are currently notifiable

⁵ Invasive pneumococcal disease became a notifiable disease on the 17th October 2008

⁶ These totals and rates are derived from the EpiSurv report date as opposed to the earliest available date used in the meningococcal disease section of this report

⁷ Non-seasonal influenza (capable of transmission between human beings) became an infectious notifiable disease on 29 April 2009.

Notifiable Disease Surveillance Data by District Health Board October 2009

		Cases ¹ and current rate ² for October 2009 by District Health Board ³																				
Disease		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Otago	Southland
Campylobacteriosis	Cases	20	61	64	84	63	15	42	1	25	26	8	20	35	50	8	10	3	40	12	19	16
	Rate	148.7	174.8	184.0	145.5	176.3	171.4	149.0	47.9	204.3	200.9	213.2	136.0	245.2	244.4	138.4	142.2	120.4	105.9	204.3	129.8	147.1
Cryptosporidiosis	Cases	13	8	1	6	24	5	9	1	12	8	2	4	2	14	4	5	6	14	11	9	11
	Rate	24.6	12.7	10.0	10.4	30.6	12.8	14.1	15.3	23.2	21.5	14.2	17.6	14.1	42.9	30.2	16.2	40.1	17.3	52.4	15.5	30.7
Dengue fever	Cases	0	0	2	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0
	Rate	1.9	3.5	7.5	9.1	2.0	2.0	1.9	4.4	0.9	2.6	3.2	3.0	1.4	5.3	2.5	0.7	3.1	2.4	0.0	0.5	0.9
Gastroenteritis	Cases	0	3	2	8	1	3	0	0	0	0	1	12	3	6	0	0	16	6	0	0	0
	Rate	1.9	19.6	24.0	14.8	8.7	10.8	3.4	4.4	0.0	6.5	25.3	71.0	35.2	30.9	5.0	7.4	268.7	11.7	18.1	3.2	0.9
Giardiasis	Cases	1	12	13	11	10	4	3	0	4	1	0	1	2	14	0	3	1	18	0	1	2
	Rate	36.2	30.9	46.3	40.3	43.5	62.1	28.2	24.0	41.8	50.2	28.4	10.3	26.8	63.6	25.2	35.4	37.1	35.7	18.1	29.9	42.4
Haemophilus influenzae type b	Cases	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.0	0.2	0.8	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Hazardous substances injury	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis A	Cases	0	1	1	2	1	0	1	0	0	1	0	0	1	0	0	0	0	1	0	0	0
	Rate	1.3	1.0	1.6	1.7	0.8	1.0	1.9	0.0	1.9	2.6	3.2	1.2	2.8	0.7	0.0	0.0	0.0	1.2	0.0	0.0	0.0
Hepatitis B	Cases	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.9	1.3	2.5	1.7	0.0	1.0	1.9	2.2	1.9	0.7	1.6	1.2	0.0	1.4	2.5	2.2	6.2	0.8	0.0	0.5	0.9
Hepatitis C	Cases	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.9	0.8	0.0	2.0	1.0	0.0	5.6	0.0	0.0	1.2	0.0	0.7	5.0	0.0	0.0	2.2	0.0	0.5	0.0
HbA1c ≥ 6.5% diabetes mellitus	Cases	5	6	4	9	5	3	8	1	2	2	2	2	1	3	0	0	0	9	0	5	5
	Rate	16.2	12.5	13.5	20.3	24.1	28.6	22.9	21.8	23.2	22.2	15.8	11.5	20.4	10.9	25.2	16.9	0.0	12.5	12.7	18.2	17.1
Lead absorption	Cases	0	2	9	3	2	4	2	0	0	2	0	2	2	2	0	3	0	1	2	1	0
	Rate	2.6	8.6	25.3	12.7	6.5	7.9	5.4	10.9	5.6	3.3	11.1	9.1	12.0	5.6	7.5	5.9	0.0	5.6	5.4	10.1	8.1
Legionellosis	Cases	0	2	3	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	2.5	2.5	2.5	0.8	1.0	4.4	0.0	1.9	2.6	0.0	0.6	0.7	1.1	5.0	1.5	6.2	2.6	5.4	1.6	0.9
Leptospirosis	Cases	1	1	1	0	2	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1
	Rate	4.5	0.2	0.5	0.0	3.9	3.0	3.9	2.2	6.5	6.5	4.7	3.0	0.0	0.4	2.5	1.5	9.3	1.6	1.8	1.6	3.6
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0
	Rate	0.6	0.8	0.9	0.6	1.1	0.0	0.5	2.2	0.9	0.0	1.6	1.2	0.7	0.4	0.0	0.0	0.0	0.4	0.0	1.6	0.0
Malaria	Cases	0	1	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	0.0	1.5	1.8	4.0	0.8	0.0	0.5	0.0	0.9	0.7	0.0	0.0	0.0	1.1	0.0	0.7	6.2	0.6	0.0	0.0	0.0
Measles	Cases	1	2	5	0	2	0	0	0	0	1	0	0	0	1	1	0	2	0	0	1	0
	Rate	2.6	3.3	2.7	0.6	0.8	0.0	1.0	0.0	0.0	0.7	1.6	0.0	0.7	0.7	5.0	0.7	9.3	34.5	1.8	18.7	1.8
Meningococcal disease	Cases	0	0	1	3	1	0	1	0	0	1	0	2	0	1	0	0	0	0	0	1	0
	Rate	3.9	1.2	2.5	4.4	2.5	4.9	3.4	10.9	1.9	6.5	1.6	5.5	4.2	3.9	7.5	1.5	3.1	2.4	1.8	4.3	2.7
Mumps	Cases	0	3	2	2	0	1	1	0	0	0	0	0	1	0	0	1	0	1	0	0	0
	Rate	2.6	1.3	1.1	1.1	1.7	2.0	2.9	0.0	0.9	0.7	1.6	0.0	3.5	2.1	7.5	1.5	3.1	2.6	3.6	0.0	0.0
Non-communicable diseases	Cases	0	4	2	7	2	0	1	0	0	0	0	0	0	0	0	0	0	6	0	0	0
	Rate	115.1	64.3	84.7	65.5	50.0	53.2	52.1	108.9	30.6	113.5	112.1	48.0	150.1	178.3	135.8	58.2	197.7	120.6	137.4	42.7	41.5
Paratyphoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	0.0	1.2	0.7	0.6	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.1	2.5	0.0	0.0	0.6	0.0	0.0	0.0
Pertussis	Cases	2	9	9	6	31	5	3	0	4	0	0	2	5	11	1	2	1	24	1	1	3
	Rate	10.3	18.6	12.6	14.2	55.3	33.5	24.8	13.1	22.3	16.3	12.6	13.4	35.2	30.2	12.6	67.8	86.5	60.9	45.2	11.7	26.2
Rheumatic fever	Cases	0	0	0	2	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	9.0	1.3	2.7	8.9	6.5	3.0	2.4	21.8	0.9	2.6	0.0	1.8	4.9	3.5	0.0	0.7	0.0	0.2	0.0	0.0	0.0
Rickettsial disease	Cases	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.4	0.0	0.2	0.6	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rubella	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.2	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.8	0.0	0.0	0.0
Salmonellosis	Cases	2	7	9	8	5	5	5	3	0	3	1	1	2	5	1	3	1	7	1	6	9
	Rate	23.3	18.8	24.4	21.8	28.6	30.5	23.9	71.9	21.4	39.1	19.0	19.4	27.5	23.2	50.3	35.4	30.9	32.1	52.4	49.7	51.4
Shigellosis	Cases	1	2	4	0	1	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0
	Rate	2.6	4.6	5.0	4.6	2.5	2.0	2.4	2.2	0.0	0.7	0.0	0.6	2.8	2.8	2.5	2.2	6.2	2.2	5.4	1.1	2.7
Tuberculosis disease	Cases	0	2	3	5	2	0	0	0	0	0	0	1	0	1	0	4	1	2	0	0	0
	Rate	4.5	8.6	13.7	12.9	5.3	5.9	4.9	0.0	1.9	5.2	0.0	3.6	9.2	8.4	0.0	6.6	3.1	6.0	3.6	1.1	0.9
Typhoid fever	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	1.0	2.1	2.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0
VTEC/STEC infection	Cases	1	2	0	1	4	1	1	0	1	0	0	0	0	1	0	1	0	2	1	1	0
	Rate	5.2	1.9	4.6	2.3	8.1	3.9	3.4	15.3	10.2	2.6	0.0	1.2	2.1	1.8	5.0	1.5	3.1	3.6	3.6	2.7	0.9
Yersiniosis	Cases	0	5	7	6	1	0	0	1	2	1	1	1	1	2	0	0	1	6	0	1	1
	Rate	5.8	8.5	16.4	5.5	6.5	9.9	4.9	4.4	18.6	9.8	6.3	2.4	17.6	19.3	5.0	2.9	37.1	15.5	10.8	6.4	5.4

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including October 2009 expressed as cases per 100 000

³ Further data are available from the local Medical Officer of Health

HbA1c ≥ 6.5%
 diabetes mellitus
 HbYgY'hcH'g'UbX'fUHYg'UFY'XYfj]YX'Zfca' h'Y'9d]Gi'fj'fYdcfhXUH'Y'Ug'cddcgYX'hc' h'Y'YUf'Y]gh'Uj'Uj'UV'Y'XUH'i'gYX'jb'h'Y'a'Yb]b[cVt'VWU'X]gYUgY'gYVW]cb'cZH]g'fYdcfh
 Bcb]gYUgcbU']bZi'YbnU'5'f'k' %B%
 Bcb]gYUgcbU']bZi'YbnU'fVWdUV'Y'cZHfUbga']gg]cb'VYf'k'YYb'\i' a'Ub'VY]b[gk'VYVWUa'Y'Ub']bZYVW]ci'g'bch]Z]UV'Y'X]gYUgY'cb'&- '5df]'&\$-\$- "

Notifiable Disease Surveillance Data by District Health Board October 2009

		Cases ¹ and current rate ² for October 2009 by District Health Board ³																				
Disease		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Otago	Southland
Campylobacteriosis	Cases	20	61	64	84	63	15	42	1	25	26	8	20	35	50	8	10	3	40	12	19	16
	Rate	148.7	174.8	184.0	145.5	176.3	171.4	149.0	47.9	204.3	200.9	213.2	136.0	245.2	244.4	138.4	142.2	120.4	105.9	204.3	129.8	147.1
Cryptosporidiosis	Cases	13	8	1	6	24	5	9	1	12	8	2	4	2	14	4	5	6	14	11	9	11
	Rate	24.6	12.7	10.0	10.4	30.6	12.8	14.1	15.3	23.2	21.5	14.2	17.6	14.1	42.9	30.2	16.2	40.1	17.3	52.4	15.5	30.7
Dengue fever	Cases	0	0	2	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0
	Rate	1.9	3.5	7.5	9.1	2.0	2.0	1.9	4.4	0.9	2.6	3.2	3.0	1.4	5.3	2.5	0.7	3.1	2.4	0.0	0.5	0.9
Gastroenteritis	Cases	0	3	2	8	1	3	0	0	0	0	1	12	3	6	0	0	16	6	0	0	0
	Rate	1.9	19.6	24.0	14.8	8.7	10.8	3.4	4.4	0.0	6.5	25.3	71.0	35.2	30.9	5.0	7.4	268.7	11.7	18.1	3.2	0.9
Giardiasis	Cases	1	12	13	11	10	4	3	0	4	1	0	1	2	14	0	3	1	18	0	1	2
	Rate	36.2	30.9	46.3	40.3	43.5	62.1	28.2	24.0	41.8	50.2	28.4	10.3	26.8	63.6	25.2	35.4	37.1	35.7	18.1	29.9	42.4
Haemophilus influenzae type b	Cases	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.0	0.2	0.8	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Hazardous substances injury	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis A	Cases	0	1	1	2	1	0	1	0	0	1	0	0	1	0	0	0	0	1	0	0	0
	Rate	1.3	1.0	1.6	1.7	0.8	1.0	1.9	0.0	1.9	2.6	3.2	1.2	2.8	0.7	0.0	0.0	0.0	1.2	0.0	0.0	0.0
Hepatitis B	Cases	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.9	1.3	2.5	1.7	0.0	1.0	1.9	2.2	1.9	0.7	1.6	1.2	0.0	1.4	2.5	2.2	6.2	0.8	0.0	0.5	0.9
Hepatitis C	Cases	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.9	0.8	0.0	2.0	1.0	0.0	5.6	0.0	0.0	1.2	0.0	0.7	5.0	0.0	0.0	2.2	0.0	0.5	0.0
HbSgYgY dbYi a cVcVWU' X]gYUgY	Cases	5	6	4	9	5	3	8	1	2	2	2	2	1	3	0	0	0	9	0	5	5
	Rate	16.2	12.5	13.5	20.3	24.1	28.6	22.9	21.8	23.2	22.2	15.8	11.5	20.4	10.9	25.2	16.9	0.0	12.5	12.7	18.2	17.1
Lead absorption	Cases	0	2	9	3	2	4	2	0	0	2	0	2	2	2	0	3	0	1	2	1	0
	Rate	2.6	8.6	25.3	12.7	6.5	7.9	5.4	10.9	5.6	3.3	11.1	9.1	12.0	5.6	7.5	5.9	0.0	5.6	5.4	10.1	8.1
Legionellosis	Cases	0	2	3	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	2.5	2.5	2.5	0.8	1.0	4.4	0.0	1.9	2.6	0.0	0.6	0.7	1.1	5.0	1.5	6.2	2.6	5.4	1.6	0.9
Leptospirosis	Cases	1	1	1	0	2	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1
	Rate	4.5	0.2	0.5	0.0	3.9	3.0	3.9	2.2	6.5	6.5	4.7	3.0	0.0	0.4	2.5	1.5	9.3	1.6	1.8	1.6	3.6
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0
	Rate	0.6	0.8	0.9	0.6	1.1	0.0	0.5	2.2	0.9	0.0	1.6	1.2	0.7	0.4	0.0	0.0	0.0	0.4	0.0	1.6	0.0
Malaria	Cases	0	1	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	0.0	1.5	1.8	4.0	0.8	0.0	0.5	0.0	0.9	0.7	0.0	0.0	0.0	1.1	0.0	0.7	6.2	0.6	0.0	0.0	0.0
Measles	Cases	1	2	5	0	2	0	0	0	0	1	0	0	0	1	1	0	2	0	0	1	0
	Rate	2.6	3.3	2.7	0.6	0.8	0.0	1.0	0.0	0.0	0.7	1.6	0.0	0.7	0.7	5.0	0.7	9.3	34.5	1.8	18.7	1.8
A Yb]b[cVcVWU' X]gYUgY	Cases	0	0	1	3	1	0	1	0	0	1	0	2	0	1	0	0	0	0	0	1	0
	Rate	3.9	1.2	2.5	4.4	2.5	4.9	3.4	10.9	1.9	6.5	1.6	5.5	4.2	3.9	7.5	1.5	3.1	2.4	1.8	4.3	2.7
Mumps	Cases	0	3	2	2	0	1	1	0	0	0	0	0	1	0	0	1	0	1	0	0	0
	Rate	2.6	1.3	1.1	1.1	1.7	2.0	2.9	0.0	0.9	0.7	1.6	0.0	3.5	2.1	7.5	1.5	3.1	2.6	3.6	0.0	0.0
Bcb'gYUgcbU']bZi YbnU'5'f'k%B%&'	Cases	0	4	2	7	2	0	1	0	0	0	0	0	0	0	0	0	0	6	0	0	0
	Rate	115.1	64.3	84.7	65.5	50.0	53.2	52.1	108.9	30.6	113.5	112.1	48.0	150.1	178.3	135.8	58.2	197.7	120.6	137.4	42.7	41.5
Paratyphoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	0.0	1.2	0.7	0.6	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.1	2.5	0.0	0.0	0.6	0.0	0.0	0.0
Pertussis	Cases	2	9	9	6	31	5	3	0	4	0	0	2	5	11	1	2	1	24	1	1	3
	Rate	10.3	18.6	12.6	14.2	55.3	33.5	24.8	13.1	22.3	16.3	12.6	13.4	35.2	30.2	12.6	67.8	86.5	60.9	45.2	11.7	26.2
Rheumatic fever	Cases	0	0	0	2	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Rate	9.0	1.3	2.7	8.9	6.5	3.0	2.4	21.8	0.9	2.6	0.0	1.8	4.9	3.5	0.0	0.7	0.0	0.2	0.0	0.0	0.0
Rickettsial disease	Cases	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.4	0.0	0.2	0.6	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rubella	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.2	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.8	0.0	0.0	0.0
Salmonellosis	Cases	2	7	9	8	5	5	5	3	0	3	1	1	2	5	1	3	1	7	1	6	9
	Rate	23.3	18.8	24.4	21.8	28.6	30.5	23.9	71.9	21.4	39.1	19.0	19.4	27.5	23.2	50.3	35.4	30.9	32.1	52.4	49.7	51.4
Shigellosis	Cases	1	2	4	0	1	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0
	Rate	2.6	4.6	5.0	4.6	2.5	2.0	2.4	2.2	0.0	0.7	0.0	0.6	2.8	2.8	2.5	2.2	6.2	2.2	5.4	1.1	2.7
Tuberculosis disease	Cases	0	2	3	5	2	0	0	0	0	0	0	1	0	1	0	4	1	2	0	0	0
	Rate	4.5	8.6	13.7	12.9	5.3	5.9	4.9	0.0	1.9	5.2	0.0	3.6	9.2	8.4	0.0	6.6	3.1	6.0	3.6	1.1	0.9
Typhoid fever	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	1.0	2.1	2.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0
VTEC/STEC infection	Cases	1	2	0	1	4	1	1	0	1	0	0	0	0	1	0	1	0	2	1	1	0
	Rate	5.2	1.9	4.6	2.3	8.1	3.9	3.4	15.3	10.2	2.6	0.0	1.2	2.1	1.8	5.0	1.5	3.1	3.6	3.6	2.7	0.9
Yersiniosis	Cases	0	5	7	6	1	0	0	1	2	1	1	1	1	2	0	0	1	6	0	1	1
	Rate	5.8	8.5	16.4	5.5	6.5	9.9	4.9	4.4	18.6	9.8	6.3	2.4	17.6	19.3	5.0	2.9	37.1	15.5	10.8	6.4	5.4

¹ These data are provisional

² Current rate is based on the cumulative total for the 12 months up to and including October 2009 expressed as cases per 100 000

³ Further data are available from the local Medical Officer of Health

‘b] Uglj`Y`dbYi a cVcVWU'`X]gYUgY`VYWUa`Y`U`bch]Z]UV`Y`X]gYUgY`cb`h`Y`%+h`c`VWcVYf`&\$\$,
`H`YgY`hc`H`U`g`UbX`f`UH`g`UFY`XYfj]`YX`Zfca`h`Y`9d]Gi`fj`fYdcfhXUH`U`g`cddcgYX`hc`h`Y`YUf`Y]gh`Uj`Uj]`UV`Y`XUH`i`gYX`]b`h`Y`a`Yb]b[`cVcVWU'`X]gYUgY`gYWUcb`cZH`jg`fYdcfh
`Bcb]`gYUgcbU'`]bZi`YbnU`fWUdUV`Y`cZH`fUbg`a`gg]cb`VYhk`YYb`i`a`Ub`VY]b[`gk`VYWUa`Y`Ub`]bZYWUci`g`bch]Z]UV`Y`X]gYUgY`cb`&-`5dfj`'`&\$-\$`-`"

Notifiable Disease Surveillance Data for the 12 months ending October-2009 by District Health Board

Disease	Cases for the 12 months ending October 2009 ^{1 2} by District Health Board ³																					
	Total	Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Otago	Southland
Campylobacteriosis	7026	230	910	806	689	628	174	306	22	220	308	135	224	348	695	55	193	39	525	113	243	163
Cryptosporidiosis	818	38	66	44	49	109	13	29	7	25	33	9	29	20	122	12	22	13	86	29	29	34
Dengue fever	158	3	18	33	43	7	2	4	2	1	4	2	5	2	15	1	1	1	12	0	1	1
Gastroenteritis	786	3	102	105	70	31	11	7	2	0	10	16	117	50	88	2	10	87	58	10	6	1
Giardiasis	1634	56	161	203	191	155	63	58	11	45	77	18	17	38	181	10	48	12	177	10	56	47
Haemophilus influenzae type b	9	1	1	0	1	3	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0
Hazardous substances injury	8	1	3	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Hepatitis A	52	2	5	7	8	3	1	4	0	2	4	2	2	4	2	0	0	0	6	0	0	0
Hepatitis B	57	3	7	11	8	0	1	4	1	2	1	1	2	0	4	1	3	2	4	0	1	1
Hepatitis C	38	1	1	4	4	0	2	2	0	6	0	0	2	0	2	2	0	0	11	0	1	0
Ischaemic heart disease	720	25	65	59	96	86	29	47	10	25	34	10	19	29	31	10	23	0	62	7	34	19
Lead absorption	403	4	45	111	60	23	8	11	5	6	5	7	15	17	16	3	8	0	28	3	19	9
Legionellosis	87	1	13	11	12	3	1	9	0	2	4	0	1	1	3	2	2	2	13	3	3	1
Leptospirosis	84	7	1	2	0	14	3	8	1	7	10	3	5	0	1	1	2	3	8	1	3	4
Listeriosis	29	1	4	4	3	4	0	1	1	1	0	1	2	1	1	0	0	0	2	0	3	0
Malaria	50	0	8	8	19	3	0	1	0	1	1	0	0	0	3	0	1	2	3	0	0	0
Measles	261	4	17	12	3	3	0	2	0	0	1	1	0	1	2	2	1	3	171	1	35	2
Non-infectious diseases	139	6	6	11	21	9	5	7	5	2	10	1	9	6	11	3	2	1	12	1	8	3
Mumps	70	4	7	5	5	6	2	6	0	1	1	1	0	5	6	3	2	1	13	2	0	0
Non-infectious diseases	3657	178	335	371	310	178	54	107	50	33	174	71	79	213	507	54	79	64	598	76	80	46
Paratyphoid fever	24	0	6	3	3	2	1	0	0	0	0	0	0	2	3	1	0	0	3	0	0	0
Pertussis	1241	16	97	55	67	197	34	51	6	24	25	8	22	50	86	5	92	28	302	25	22	29
Rheumatic fever	143	14	7	12	42	23	3	5	10	1	4	0	3	7	10	0	1	0	1	0	0	0
Rickettsial disease	9	1	2	0	1	2	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Rubella	8	0	0	1	0	0	0	1	0	0	0	0	0	0	2	0	0	0	4	0	0	0
Salmonellosis	1207	36	98	107	103	102	31	49	33	23	60	12	32	39	66	20	48	10	159	29	93	57
Shigellosis	128	4	24	22	22	9	2	5	1	0	1	0	1	4	8	1	3	2	11	3	2	3
Tuberculosis disease	306	7	45	60	61	19	6	10	0	2	8	0	6	13	24	0	9	1	30	2	2	1
Typhoid fever	36	0	5	9	13	1	0	0	0	0	0	0	0	0	7	0	0	0	1	0	0	0
VTEC/STEC infection	152	8	10	20	11	29	4	7	7	11	4	0	2	3	5	2	2	1	18	2	5	1
Yersiniosis	438	9	44	72	26	23	10	10	2	20	15	4	4	25	55	2	4	12	77	6	12	6
Total	19778	663	2113	2171	1941	1672	460	754	176	460	794	302	599	879	1957	192	556	284	2396	323	658	428

¹ These data are provisional

² Further data are available from the local Medical Officer of Health

³ These totals are derived from the EpiSurv report date as opposed to the earliest available date used in the meningococcal disease section

“b] Uglj Y`dbYi a cVtVWU`X]gYUgY`VYVWla Y`U`bch]Z]UV`Y`X]gYUgY`cb`h`Y`%+h`C`WtVYf`&\$\$,`h`Y`gY`hc`HJ`g`UbX`fUH`g`UFY`XYf]j`YX`Zfca`h`Y`9d]Gi`fj`fYdcfhXUH`Ug`cddcgYX`hc`h`Y`YUf`Y]ghUj`Uj`UV`Y`XUH`i`gYX`]b`h`Y`a`Yb]b[`cVtVWU`X]gYUgY`gYVW]cb`cZ`h`Jg`fYdcfh`Bcb]`gYUgcbU`]bZi`YbnU`fWdUV`Y`cZ`fUbg`a`Jgg]cb`VYhk`YYb`i`a`Ub`VY]b[`gE`VYVWla`Y`Ub`]bZYVW]ci`g`bch]Z]UV`Y`X]gYUgY`cb`&-`5df)``&\$\$-`”

National Notifiable Disease Surveillance Data October 2009

Disease	Current Year - 2009 ¹			Previous Year - 2008		
	October 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	October 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	622	5309	164.6	632	4977	164.3
Cryptosporidiosis	169	701	19.2	197	647	17.5
Dengue fever	5	133	3.7	8	88	2.3
Gastroenteritis	61	613	18.4	78	514	14.8
Giardiasis	101	1366	38.3	120	1392	37.6
Haemophilus influenzae type b	2	9	0.2	2	9	0.2
Hazardous substances injury	1	4	0.2	0	3	0.1
Hepatitis A	9	42	1.2	8	79	2.0
<YdUh]hg`6	3	53	1.3	2	34	1.1
<YdUh]hg`7	2	34	0.9	2	19	0.5
⋈j Ug]j Y`dbYi a cVŁVWU`X]gYUgY	72	619	16.9	26	26	0.6
Lead absorption	37	334	9.4	22	248	6.3
Legionellosis	11	64	2.0	7	50	1.5
Leptospirosis	9	59	2.0	10	93	2.4
Listeriosis	2	25	0.7	2	23	0.7
Malaria	5	45	1.2	7	35	1.0
Measles	16	258	6.1	0	9	0.4
A Yb]b[cVŁVWU`X]gYUgY	11	118	3.3	8	101	2.7
Mumps	12	61	1.6	0	67	1.9
Bcb`gYUgcbU`]bZi YbnU`5`fk`%B`%Ł`	22	3657	85.7	0	0	0.0
Paratyphoid fever	1	21	0.6	1	22	0.7
Pertussis	120	1121	29.1	61	297	8.0
Rheumatic fever	6	127	3.3	11	137	3.4
Rickettsial disease	3	9	0.2	0	10	0.2
Rubella	0	6	0.2	0	7	0.3
Salmonellosis	84	967	28.3	97	1106	31.2
Shigellosis	12	110	3.0	5	95	2.5
Tuberculosis disease	21	260	7.2	27	251	7.0
Typhoid fever	1	33	0.8	2	26	0.7
VTEC/STEC infection	17	135	3.6	4	107	2.7
Yersiniosis	37	366	10.3	33	437	12.5

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including October 2009) or the previous year (12 months up to and including October 2008), expressed as cases per 100 000

³ Cases of gastroenteritis from a common source or foodborne intoxication

`C b`mUW`hY`WUgYg`cZ`h`jg`X]gYUgY`UfY`W`ffYbhmbch]Z]UV`Y`
`⋈j Ug]j Y`dbYi a cVŁVWU`X]gYUgY`VYVWa`Y`U`bch]Z]UV`Y`X]gYUgY`cb`h`Y`%+`h`C`VŁ`VYf`&\$\$`
`h`Y`gY`hc`HJ`g`UbX`fU`h`g`UfY`XYf]j`YX`Zfca`h`Y`9d]Gi`fj`fYdcfhXU`h`Ug`cddcgYX`hc`h`Y`YUf`]YghUj`Uj`UV`Y`XU`h`i`gYX`]b`h`Y`
a`Yb]b[cVŁVWU`X]gYUgY`gYVW]cb`cZ`h`jg`fYdcfh`
`Bcb!`gYUgcbU`]bZi`YbnU`fVWdUV`Y`cZ`f`Ubg`a`]gg]cb`VY`h`Y`b`\\i`a`Ub`VY]b[`gŁ`VYVWa`Y`Ub`]bZYVW]ci`g`bch]Z]UV`Y`X]gYUgY`cb`
&-`5df]`&\$\$`-`"