

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 5th May 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

- *Chemical poisoning from the environment:* One probable case of chemical poisoning from the environment was notified in April 2009. This male case from Bay of Plenty DHB aged 40-49 years had been hospitalised following possible accidental ingestion of cyanide paste.
- *Cryptosporidiosis:* 52 cryptosporidiosis cases were notified in April 2009 compared to 39 cases notified in the same month of the previous year (Figure 1). For the 12 month period ending 30 April 2009 the national rate was 19.4 per 100 000 population compared to 17.8 for the same 12 month period last year. The cases had varied ages, ranging from less than 1 year to 69 years, with the highest number of cases in the 1-4 years age group (11 cases) followed by 30-39 years age group (10 cases). One case was hospitalised. Among the cases where risk factor information was recorded, 54.5% (6/11) had faecal contact, 45.5% (5/11) had contact with other symptomatic people, 45.5% (5/11) had consumed untreated water, 31.3% (5/16) had contact with farm animals, 28.6% (4/14) had recreational water contact and 21.4% (3/14) had consumed food from a food premise. Three cases had travelled overseas during the incubation period.
- *Invasive pneumococcal disease:* 46 cases of invasive pneumococcal disease were notified in April 2009. The highest numbers of cases were reported from Counties Manukau (8), Canterbury (7), Waitemata (5), and Waikato (5) DHBs. Cases had varied ages, ranging from less than 1 year to 70+ years, with the highest number of cases in the 70+ years age group (12 cases). 31 of the cases were hospitalised and one case died from invasive pneumococcal disease (aged 70+ years).
- *Leprosy:* Two cases of leprosy were notified in April 2009. One case was laboratory confirmed. This 20-29 year old case is originally from Nepal where a family member has leprosy. The other case, a 40-49 year old who was in the Philippines during their disease incubation period, is still under investigation.

- *Meningococcal disease*: Based on the earliest date available¹, 7 laboratory-confirmed cases of meningococcal disease were notified during April 2009. In comparison, 4 cases were notified the previous month, March 2009, and 7 cases were notified during the same month last year, April 2008. For the 12 month period ending 30 April 2009, Whanganui DHB recorded the highest incidence rate of 6.3 per 100 000 population (4 cases), followed by Hawke's Bay DHB (5.9 per 100 000, 9 cases) and Southland DHB (5.4 per 100 000, 6 cases). The highest age-specific incidence rate was in infants aged less than one year (32.8 per 100 000 population, 21 cases), followed by those in the 1-4 years age group (14.0 per 100 000, 33 cases), and those in the 15-19 years age group (5.0 per 100 000, 16 cases).
- *Non-seasonal Influenza A (H1N1)*: Human cases of non-seasonal influenza A (H1N1) initially appeared in Mexico, but have now been confirmed in a number of countries. In New Zealand, influenza A (H1N1) became notifiable on 29 April 2009 and 41 cases were notified in April 2009 (4 confirmed, 11 probable, 24 suspect and 2 under investigation). None of these cases were reported to have been hospitalised or died. For the latest information on the influenza A (H1N1) situation in New Zealand see <http://www.moh.govt.nz/influenza-a-h1n1>.
- *Mumps*: 16 cases of mumps were notified in April 2009 compared to 7 notified cases in the same month of the previous year (Figure 2). The cases were reported from Waikato (3), Waitemata (2), Bay of Plenty (2), Capital and Coast (2), South Canterbury (2), Northland, Auckland, Counties Manukau, Lakes, and Canterbury DHBs (1 case each). Of the two laboratory confirmed cases, one was non-immunised, and the immunisation status of the other case is unknown. Among the 14 non-laboratory confirmed cases, two were recorded as immunised, five as not immunised, and seven cases as immunisation status unknown.
- *Pertussis*: 97 cases of pertussis were notified in April 2009, compared to 117 notifications in the preceding month and 19 notifications in same month of the previous year. There were 21 (21.6%) laboratory-confirmed cases. The highest numbers of cases were reported from Canterbury (28), Nelson Marlborough (12) and Waikato (8) DHBs. For the 12 month period ending 30 April 2009, the highest incidence rates were reported from West Coast (74.1 per 100 000 population, 24 cases) and Nelson Marlborough (63.4 per 100 000, 86 cases) DHBs compared to a national rate of 17.9 per 100 000 population. The current 12 month rate by age group was highest amongst infants aged less than one year (110.8 per 100 000 population, 71 cases), followed by children in the 1-4 years age group (29.2 per 100 000, 69 cases).
- *Shigellosis*: 10 cases of shigellosis were notified in April 2009 compared to 6 notified cases in the same month of the previous year. The cases were reported from Auckland (2), Counties Manukau (2), Northland, Waitemata, Waikato, Hawke's Bay, Wairarapa, and Southland DHBs (1 case each). The serotype involved was identified for nine of the cases; *Shigella sonnei* biotype a (3), *S. sonnei* biotype g (3), *S. flexneri* 1 (1), *S. flexneri* 2a (1) and *S. flexneri* 4a (1). Cases did not report any overseas travel during the incubation period.
- *Ross River Virus Infection*: One case of laboratory-confirmed Ross River virus infection was notified in April 2009. The case was a female in the 1-4 years age group of Maori ethnicity from Waitemata DHB. The case is still under investigation and the overseas travel history is currently unknown.

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.

2. Outbreaks

Completed outbreak reports: 12 outbreak reports were entered into EpiSurv and completed during April 2009 (Table 1).

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

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
Cryptosporidium	Auckland	2	10
Gastroenteritis	Hutt	1	16
<i>Giardia</i>	Auckland	1	4
Norovirus	Auckland, Manawatu, Hutt, Canterbury	6	408
<i>Salmonella</i>	Auckland, Southland	2	10
Total		12	448

Interim outbreak reports: 25 interim outbreaks have been reported in April 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 April 2009

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Campylobacter</i>	Wellington, Southland	2	4
Gastroenteritis	Auckland, Rotorua, Hawke's Bay, Manawatu, Wellington, Canterbury, Otago	14	182
<i>Giardia</i>	Auckland	1	4
Influenza A (H1N1)	Auckland	2	3
Norovirus	Auckland, Manawatu, Wanganui	4	231
<i>Salmonella</i>	Auckland	1	4
<i>Shigella</i>	Auckland	1	2
Total		25	430

3. Deaths from notifiable diseases

Two deaths were reported for the month of April from invasive pneumococcal disease and listeriosis (Table 3).

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

Disease	District Health Board	Age group
Invasive pneumococcal disease	Taranaki	70+
Listeriosis	Whanganui	70+

4. Trends in selected diseases to April 2009

Figure 1: Cryptosporidiosis notifications by month by year, January 2004 – April 2009

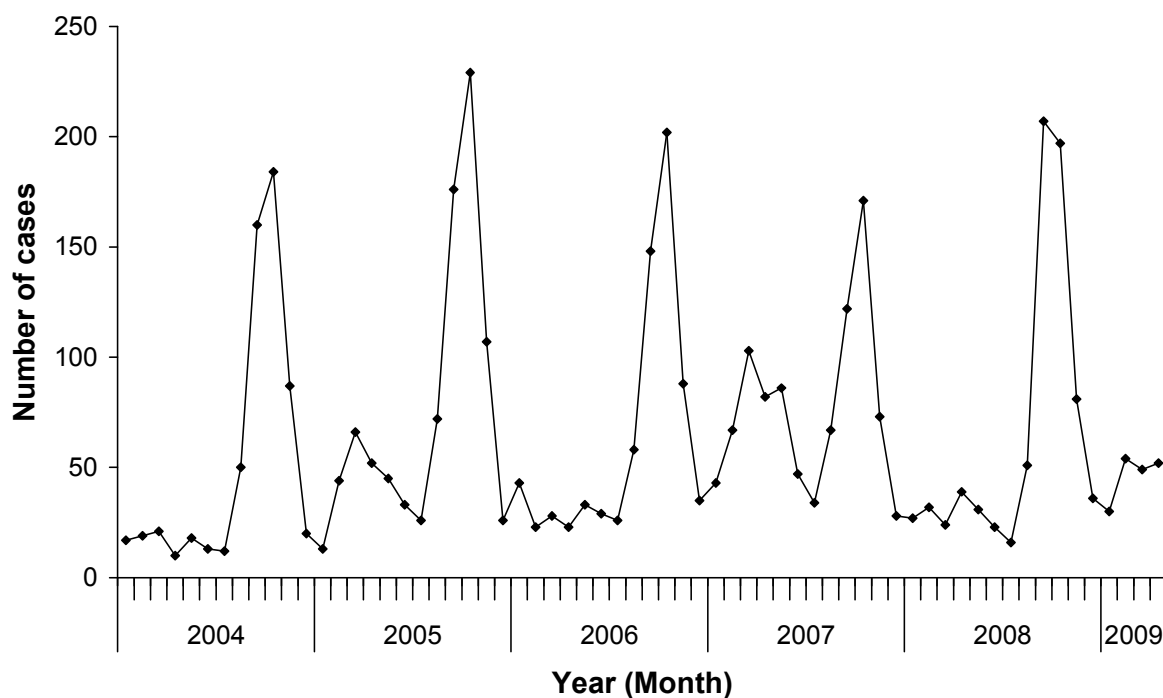
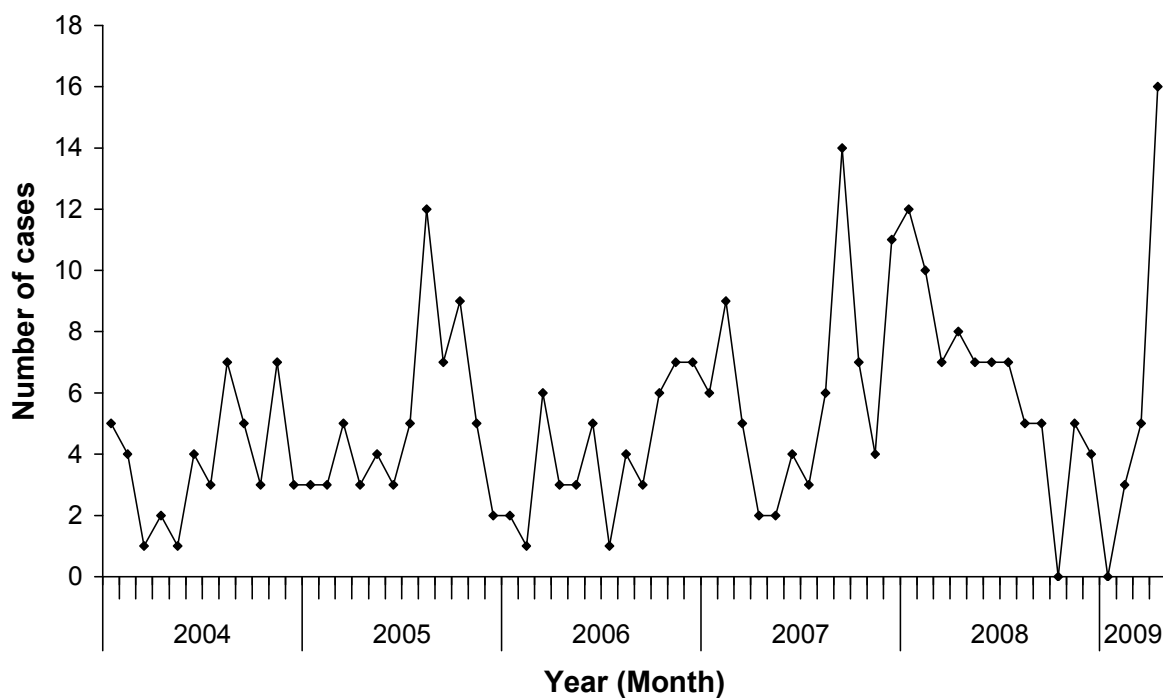


Figure 2: Mumps notifications by month by year, January 2004 – April 2009



5. Data Tables

National Notifiable Disease Surveillance Data April 2009

Disease	Current Year - 2009 ¹			Previous Year - 2008		
	April 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	April 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	423	2318	160.6	397	2157	227.4
Cryptosporidiosis	52	185	19.4	39	122	17.8
Dengue fever	8	78	3.5	12	43	1.9
Gastroenteritis	43	182	15.2	44	223	14.9
Giardiasis	109	583	39.4	146	563	33.7
Haemophilus influenzae type b	5	6	0.2	1	6	0.3
Hazardous substances injury	0	3	0.3	0	0	0.1
Hepatitis A	2	12	1.8	6	24	1.1
Hepatitis B ⁴	1	15	0.8	4	17	1.4
Hepatitis C ⁴	3	17	0.8	0	7	0.6
Invasive pneumococcal disease ⁵	46	172	7.0	0	0	0.0
Lead absorption	22	111	8.0	28	87	3.2
Legionellosis	5	38	2.1	5	21	1.4
Leptospirosis	6	25	2.6	10	32	1.6
Listeriosis	2	8	0.6	2	11	0.7
Malaria	4	22	1.2	3	11	0.8
Measles	9	37	1.1	1	1	0.4
Meningococcal disease ⁶	9	31	3.0	6	27	2.6
Mumps	16	24	1.5	7	36	2.1
Non seasonal influenza A (H1N1) ⁷	41	41	1.0	0	0	0.0
Paratyphoid fever	3	12	0.6	1	12	0.6
Pertussis	97	433	17.9	19	86	7.0
Rheumatic fever	17	46	3.7	16	41	3.9
Rickettsial disease	0	2	0.3	0	0	0.0
Rubella	4	4	0.3	2	2	0.3
Salmonellosis	82	524	29.6	115	607	32.9
Shigellosis	10	52	3.1	6	31	2.8
Tuberculosis disease	25	105	7.2	23	99	7.0
Typhoid fever	3	23	1.0	2	11	0.8
VTEC/STEC infection	9	85	3.5	12	61	2.9
Yersiniosis	36	198	11.2	47	228	13.4

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including April 2009) or the previous year (12 months up to and including April 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

⁶ Other notifiable infectious disease reported in April: Brucellosis (1) , Chemical poisoning from the environment (1) , Leprosy (2) , Ross River virus infection (1) , Tetanus (1)

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 April 2009

		Cases ¹ and current rate ² for April 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	13	49	67	29	29	8	12	0	14	15	8	16	26	48	2	10	3	39	7	12	16	
	Rate	155.1	169.0	168.7	134.6	171.5	164.5	137.3	80.6	209.8	191.1	161.1	137.2	220.6	222.6	150.9	159.9	132.8	115.7	244.1	141.0	157.9	
Cryptosporidiosis	Cases	0	5	6	3	3	4	1	1	0	6	1	2	0	10	1	0	0	6	2	1	0	
	Rate	23.9	6.3	8.2	6.8	31.4	20.7	13.6	10.9	26.9	20.9	22.1	21.9	12.0	13.4	45.3	17.7	52.5	28.2	101.3	24.0	51.4	
Dengue fever	Cases	0	0	0	5	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	
	Rate	1.3	3.6	6.6	10.1	1.1	1.0	2.9	4.4	0.0	3.3	0.0	2.4	0.7	3.9	2.5	0.7	3.1	2.4	0.0	0.0	0.9	
Gastroenteritis	Cases	0	5	2	3	5	1	0	0	0	2	0	7	6	6	0	0	0	4	0	1	1	
	Rate	3.2	19.8	21.5	13.3	7.9	1.0	8.8	4.4	1.9	3.9	28.4	40.7	26.8	26.0	5.0	5.2	21.6	18.1	14.5	6.9	2.7	
Giardiasis	Cases	4	12	9	13	12	9	6	0	2	5	0	1	1	12	1	4	0	9	1	5	3	
	Rate	32.3	35.5	55.5	42.2	38.2	60.1	25.3	28.3	21.4	37.2	22.1	8.5	26.8	66.8	32.7	37.6	55.6	38.5	28.9	34.2	46.0	
Haemophilus influenzae type b	Cases	1	1	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	
	Rate	0.6	0.4	0.0	0.2	0.0	0.0	0.5	2.2	0.0	0.7	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rate	0.0	0.6	0.5	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	
Hepatitis A	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	
	Rate	3.2	1.3	2.1	1.7	0.3	2.0	1.0	0.0	1.9	0.7	14.2	12.1	1.4	1.4	0.0	0.0	0.0	0.8	0.0	0.0	0.9	
Hepatitis B	Cases	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
	Rate	0.0	1.2	2.3	0.8	0.0	1.0	0.0	2.2	1.9	0.0	0.0	0.6	0.0	0.0	2.5	0.7	0.0	1.6	0.0	0.0	0.9	
Hepatitis C	Cases	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rate	0.0	0.6	0.9	0.8	0.3	3.0	1.0	0.0	4.6	0.0	0.0	0.6	0.7	0.7	2.5	0.0	0.0	1.2	0.0	0.0	0.0	
HbA1c ≥ 6.5% diabetes mellitus	Cases	1	5	2	8	5	0	1	0	4	1	1	2	2	1	1	2	0	7	1	1	1	
	Rate	3.9	5.8	5.7	10.6	9.8	10.8	7.3	4.4	10.2	6.5	1.6	3.6	6.3	3.2	12.6	8.1	0.0	7.1	5.4	6.9	10.8	
Lead absorption	Cases	0	2	6	1	5	0	0	0	0	0	1	0	0	0	0	1	0	4	0	1	1	
	Rate	0.6	11.5	26.9	8.4	7.6	4.9	2.4	4.4	4.6	2.6	14.2	10.3	4.9	2.8	12.6	1.5	0.0	3.6	1.8	2.1	2.7	
Legionellosis	Cases	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	
	Rate	0.0	2.3	2.3	2.1	2.0	1.0	4.4	0.0	2.8	3.9	1.6	0.0	2.1	1.1	2.5	2.2	6.2	2.4	7.2	1.6	0.0	
Leptospirosis	Cases	2	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rate	6.5	0.4	0.2	0.6	5.3	3.0	3.9	34.9	4.6	6.5	11.1	1.8	0.0	0.0	2.5	2.9	15.4	1.8	1.8	3.2	0.0	
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	
	Rate	0.6	0.6	0.7	1.3	0.3	0.0	1.0	0.0	0.0	0.0	1.6	0.6	0.0	0.4	0.0	0.0	0.0	0.4	0.0	1.6	0.0	
Malaria	Cases	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	
	Rate	0.6	1.2	2.3	3.4	0.3	0.0	1.5	0.0	0.9	0.7	0.0	0.0	1.4	0.7	0.0	0.0	6.2	1.0	0.0	0.5	0.0	
Measles	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	
	Rate	0.0	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.4	0.0	0.0	0.0	1.6	0.0	16.6	0.0	
Meningococcal disease	Cases	1	0	1	1	1	2	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	
	Rate	5.2	1.2	2.1	4.0	3.1	3.9	2.4	4.4	1.9	5.9	6.3	1.8	2.8	2.8	5.0	3.7	3.1	2.2	1.8	3.2	5.4	
Mumps	Cases	1	2	1	1	3	1	2	0	0	0	0	0	0	2	0	0	0	1	2	0	0	
	Rate	2.6	1.2	1.1	1.9	2.0	3.0	2.9	0.0	0.0	2.6	1.6	0.0	2.8	1.4	0.0	0.7	0.0	1.4	3.6	0.5	0.0	
Paratyphoid fever	Cases	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
	Rate	0.0	0.8	1.1	1.1	0.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	2.5	0.0	0.0	0.8	0.0	0.0	0.9	
Pertussis	Cases	3	2	3	6	8	6	5	0	0	2	0	3	2	6	0	12	2	28	6	1	2	
	Rate	8.4	6.0	4.8	8.9	30.3	14.8	14.6	8.7	4.6	9.8	6.3	11.5	14.8	22.2	17.6	63.4	74.1	39.5	30.7	8.5	24.4	
Rheumatic fever	Cases	1	1	1	5	2	0	1	0	0	1	0	1	1	1	0	1	0	1	0	0	0	
	Rate	7.8	2.5	3.2	7.8	8.4	3.0	1.9	8.7	0.9	6.5	1.6	3.6	5.6	3.5	2.5	0.7	0.0	0.4	0.0	0.0	0.0	
Rickettsial disease	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	0.6	0.5	0.0	1.7	0.0	0.0	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	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	
	Rate	0.0	0.2	0.5	0.0	0.0	0.0	1.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.5	0.0	
Salmonellosis	Cases	2	9	6	8	12	3	5	0	5	3	0	0	2	1	0	3	0	13	2	3	5	
	Rate	27.8	20.5	23.1	23.9	33.4	28.6	29.7	58.8	26.9	27.4	22.1	23.1	31.0	25.3	50.3	38.3	27.8	32.1	65.1	55.0	40.6	
Shigellosis	Cases	1	1	2	2	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	
	Rate	2.6	4.6	5.5	5.7	1.4	1.0	2.9	0.0	0.9	0.7	0.0	0.0	2.1	3.2	2.5	5.2	3.1	2.2	3.6	2.1	2.7	
Staphylococcal disease	Cases	0	19	12	6	0	0	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
	Rate	0.0	3.6	2.7	1.3	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	
Tuberculosis disease	Cases	0	7	8	6	0	0	1	0	1	0	0	0	0	2	0	0	0	0	0	0	0	
	Rate	7.1	9.8	12.6	13.1	6.2	4.9	4.9	4.4	1.9	3.3	1.6	3.0	6.3	9.5	0.0	5.2	0.0	5.8	3.6	0.5	1.8	
Typhoid fever	Cases	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rate	0.0	1.0	1.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	
VTEC/STEC infection	Cases	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	3	0	0	1	
	Rate	7.8	1.7	5.7	1.9	7.3	3.9	3.4	13.1	8.4	1.3	1.6	1.2	2.1	1.4	5.0	1.5	6.2	3.2	3.6	2.7	1.8	
Yersiniosis	Cases	0	3	5	1	5	1	0	0	2	2	0	0	1	3	0	1	2	9	1	0	0	
	Rate	11.0	8.3	13.9	7.2	8.7	10.8	7.8	4.4	16.7	12.4	4.7	0.6	19.7	22.9	5.0	5.2	40.1	16.7	21.7	3.2	6.3	

¹ These data are provisional

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

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

‘‘b j U g j j Y ‘‘d b Y i a c V t V W U ‘‘ X j g Y U g Y ‘‘ V Y W U a Y ‘‘ U ‘‘ b c h j Z j U V ‘‘ Y ‘‘ X j g Y U g Y ‘‘ c b ‘‘ h ‘‘ Y ‘‘ % + h ‘‘ C V t V Y f ‘‘ & \$ \$,
‘‘ h ‘‘ Y g Y ‘‘ t c h U ‘‘ g ‘‘ U b X ‘‘ f U h Y ‘‘ g ‘‘ U f Y ‘‘ X Y f j j Y X ‘‘ Z f c a ‘‘ h ‘‘ Y ‘‘ 9 d j G i f j ‘‘ f Y d c f h X U h Y ‘‘ U g ‘‘ c d d c g Y X ‘‘ t c ‘‘ h ‘‘ Y ‘‘ Y U f ‘‘ j Y g h U j U j ‘‘ U V ‘‘ Y ‘‘ X U h Y ‘‘ i g Y X ‘‘ j b ‘‘ h ‘‘ Y ‘‘ a Y b j b [c V t V W U ‘‘ X j g Y U g Y ‘‘ g Y W U c b ‘‘ c Z h j g ‘‘ f Y d c f h
‘‘ B c b j g Y U g c b U ‘‘ j b Z i Y b n U ‘‘ f W U d U V ‘‘ Y ‘‘ c Z h f U b g a j g g j c b V Y h k Y Y b ‘‘ i a U b V Y j b [g t V Y W U a Y ‘‘ U b j b Z Y W U c i g ‘‘ b c h j Z j U V ‘‘ Y ‘‘ X j g Y U g Y ‘‘ c b ‘‘ & - ‘‘ 5 d f j ‘‘ & \$ \$ - ‘‘

Notifiable Disease Surveillance Data by District Health Board April 2009

		Cases ¹ and current rate ² for April 2009 by District Health Board ³																				
Disease		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāwhiti	Tairānaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Otago	Southland
Campylobacteriosis	Cases	13	49	67	29	29	8	12	0	14	15	8	16	26	48	2	10	3	39	7	12	16
	Rate	155.1	169.0	168.7	134.6	171.5	164.5	137.3	80.6	209.8	191.1	161.1	137.2	220.6	222.6	150.9	159.9	132.8	115.7	244.1	141.0	157.9
Cryptosporidiosis	Cases	0	5	6	3	3	4	1	1	0	6	1	2	0	10	1	0	0	6	2	1	0
	Rate	23.9	6.3	8.2	6.8	31.4	20.7	13.6	10.9	26.9	20.9	22.1	21.9	12.0	13.4	45.3	17.7	52.5	28.2	101.3	24.0	51.4
Dengue fever	Cases	0	0	0	5	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0
	Rate	1.3	3.6	6.6	10.1	1.1	1.0	2.9	4.4	0.0	3.3	0.0	2.4	0.7	3.9	2.5	0.7	3.1	2.4	0.0	0.0	0.9
Gastroenteritis	Cases	0	5	2	3	5	1	0	0	0	2	0	7	6	6	0	0	0	4	0	1	1
	Rate	3.2	19.8	21.5	13.3	7.9	1.0	8.8	4.4	1.9	3.9	28.4	40.7	26.8	26.0	5.0	5.2	21.6	18.1	14.5	6.9	2.7
Giardiasis	Cases	4	12	9	13	12	9	6	0	2	5	0	1	1	12	1	4	0	9	1	5	3
	Rate	32.3	35.5	55.5	42.2	38.2	60.1	25.3	28.3	21.4	37.2	22.1	8.5	26.8	66.8	32.7	37.6	55.6	38.5	28.9	34.2	46.0
Haemophilus influenzae type b	Cases	1	1	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
	Rate	0.6	0.4	0.0	0.2	0.0	0.0	0.5	2.2	0.0	0.7	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.6	0.5	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
Hepatitis A	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
	Rate	3.2	1.3	2.1	1.7	0.3	2.0	1.0	0.0	1.9	0.7	14.2	12.1	1.4	1.4	0.0	0.0	0.0	0.8	0.0	0.0	0.9
Hepatitis B	Cases	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	Rate	0.0	1.2	2.3	0.8	0.0	1.0	0.0	2.2	1.9	0.0	0.0	0.6	0.0	0.0	2.5	0.7	0.0	1.6	0.0	0.0	0.9
Hepatitis C	Cases	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.6	0.9	0.8	0.3	3.0	1.0	0.0	4.6	0.0	0.0	0.6	0.7	0.7	2.5	0.0	0.0	1.2	0.0	0.0	0.0
Invasive pneumococcal disease ⁴	Cases	1	5	2	8	5	0	1	0	4	1	1	2	2	1	1	2	0	7	1	1	1
	Rate	3.9	5.8	5.7	10.6	9.8	10.8	7.3	4.4	10.2	6.5	1.6	3.6	6.3	3.2	12.6	8.1	0.0	7.1	5.4	6.9	10.8
Lead absorption	Cases	0	2	6	1	5	0	0	0	0	0	1	0	0	0	0	1	0	4	0	1	1
	Rate	0.6	11.5	26.9	8.4	7.6	4.9	2.4	4.4	4.6	2.6	14.2	10.3	4.9	2.8	12.6	1.5	0.0	3.6	1.8	2.1	2.7
Legionellosis	Cases	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.0	2.3	2.3	2.1	2.0	1.0	4.4	0.0	2.8	3.9	1.6	0.0	2.1	1.1	2.5	2.2	6.2	2.4	7.2	1.6	0.0
Leptospirosis	Cases	2	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	6.5	0.4	0.2	0.6	5.3	3.0	3.9	34.9	4.6	6.5	11.1	1.8	0.0	0.0	2.5	2.9	15.4	1.8	1.8	3.2	0.0
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
	Rate	0.6	0.6	0.7	1.3	0.3	0.0	1.0	0.0	0.0	0.0	1.6	0.6	0.0	0.4	0.0	0.0	0.0	0.4	0.0	1.6	0.0
Malaria	Cases	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
	Rate	0.6	1.2	2.3	3.4	0.3	0.0	1.5	0.0	0.9	0.7	0.0	0.0	1.4	0.7	0.0	0.0	6.2	1.0	0.0	0.5	0.0
Measles	Cases	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
	Rate	0.0	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.4	0.0	0.0	0.0	1.6	0.0	16.6	0.0
Meningococcal disease ⁵	Cases	1	0	1	1	1	2	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0
	Rate	5.2	1.2	2.1	4.0	3.1	3.9	2.4	4.4	1.9	5.9	6.3	1.8	2.8	2.8	5.0	3.7	3.1	2.2	1.8	3.2	5.4
Mumps	Cases	1	2	1	1	3	1	2	0	0	0	0	0	0	2	0	0	0	1	2	0	0
	Rate	2.6	1.2	1.1	1.9	2.0	3.0	2.9	0.0	0.0	2.6	1.6	0.0	2.8	1.4	0.0	0.7	0.0	1.4	3.6	0.5	0.0
Non seasonal influenza A (H1N1) ⁶	Cases	0	19	12	6	0	0	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.0	3.6	2.7	1.3	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Paratyphoid fever	Cases	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Rate	0.0	0.8	1.1	1.1	0.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	2.5	0.0	0.0	0.8	0.0	0.0	0.9
Pertussis	Cases	3	2	3	6	8	6	5	0	0	2	0	3	2	6	0	12	2	28	6	1	2
	Rate	8.4	6.0	4.8	8.9	30.3	14.8	14.6	8.7	4.6	9.8	6.3	11.5	14.8	22.2	17.6	63.4	74.1	39.5	30.7	8.5	24.4
Rheumatic fever	Cases	1	1	1	5	2	0	1	0	0	1	0	1	1	1	0	1	0	1	0	0	0
	Rate	7.8	2.5	3.2	7.8	8.4	3.0	1.9	8.7	0.9	6.5	1.6	3.6	5.6	3.5	2.5	0.7	0.0	0.4	0.0	0.0	0.0
Rickettsial disease	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	0.6	0.5	0.0	1.7	0.0	0.0	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	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
	Rate	0.0	0.2	0.5	0.0	0.0	0.0	1.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.5	0.0
Salmonellosis	Cases	2	9	6	8	12	3	5	0	5	3	0	0	2	1	0	3	0	13	2	3	5
	Rate	27.8	20.5	23.1	23.9	33.4	28.6	29.7	58.8	26.9	27.4	22.1	23.1	31.0	25.3	50.3	38.3	27.8	32.1	65.1	55.0	40.6
Shigellosis	Cases	1	1	2	2	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1
	Rate	2.6	4.6	5.5	5.7	1.4	1.0	2.9	0.0	0.9	0.7	0.0	0.0	2.1	3.2	2.5	5.2	3.1	2.2	3.6	2.1	2.7
Tuberculosis disease	Cases	0	7	8	6	0	0	1	0	1	0	0	0	0	2	0	0	0	0	0	0	0
	Rate	7.1	9.8	12.6	13.1	6.2	4.9	4.9	4.4	1.9	3.3	1.6	3.0	6.3	9.5	0.0	5.2	0.0	5.8	3.6	0.5	1.8
Typhoid fever	Cases	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.0	1.0	1.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0
VTEC/STEC infection	Cases	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	3	0	0	1
	Rate	7.8	1.7	5.7	1.9	7.3	3.9	3.4	13.1	8.4	1.3	1.6	1.2	2.1	1.4	5.0	1.5	6.2	3.2	3.6	2.7	1.8
Yersiniosis	Cases	0	3	5	1	5	1	0	0	2	2	0	0	1	3	0	1	2	9	1	0	0
	Rate	11.0	8.3	13.9	7.2	8.7	10.8	7.8	4.4	16.7	12.4	4.7	0.6	19.7	22.9	5.0	5.2	40.1	16.7	21.7	3.2	6.3

¹ These data are provisional

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

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

⁴ Invasive pneumococcal disease became a notifiable disease on the 17th October 2008

⁵ 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

⁶ Non-seasonal influenza (capable of transmission between human beings) became an infectious notifiable disease on 29 April 2009.

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

Disease	Cases for the 12 months ending April 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	6854	240	880	739	637	611	167	282	37	226	293	102	226	313	633	60	217	43	574	135	264	175
Cryptosporidiosis	827	37	33	36	32	112	21	28	5	29	32	14	36	17	38	18	24	17	140	56	45	57
Dengue fever	148	2	19	29	48	4	1	6	2	0	5	0	4	1	11	1	1	1	12	0	0	1
Gastroenteritis	649	5	103	94	63	28	1	18	2	2	6	18	67	38	74	2	7	7	90	8	13	3
Giardiasis	1680	50	185	243	200	136	61	52	13	23	57	14	14	38	190	13	51	18	191	16	64	51
Haemophilus influenzae type b	9	1	2	0	1	0	0	1	1	0	1	0	0	1	0	0	0	0	1	0	0	0
Hazardous substances injury	11	0	3	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Hepatitis A	77	5	7	9	8	1	2	2	0	2	1	9	20	2	4	0	0	0	4	0	0	1
Hepatitis B	36	0	6	10	4	0	1	0	1	2	0	0	1	0	0	1	1	0	8	0	0	1
Hepatitis C	33	0	3	4	4	1	3	2	0	5	0	0	1	1	2	1	0	0	6	0	0	0
Ischaemic heart disease	299	6	30	25	50	35	11	15	2	11	10	1	6	9	9	5	11	0	35	3	13	12
Lead absorption	341	1	60	118	40	27	5	5	2	5	4	9	17	7	8	5	2	0	18	1	4	3
Legionellosis	90	0	12	10	10	7	1	9	0	3	6	1	0	3	3	1	3	2	12	4	3	0
Leptospirosis	113	10	2	1	3	19	3	8	16	5	10	7	3	0	0	1	4	5	9	1	6	0
Listeriosis	24	1	3	3	6	1	0	2	0	0	0	1	1	0	1	0	0	0	2	0	3	0
Malaria	51	1	6	10	16	1	0	3	0	1	1	0	0	2	2	0	0	2	5	0	1	0
Measles	48	0	4	2	0	0	0	0	0	0	2	0	0	0	1	0	0	0	8	0	31	0
Non-infective diseases	126	8	6	9	19	11	4	5	2	2	9	4	3	4	8	2	5	1	11	1	6	6
Mumps	64	4	6	5	9	7	3	6	0	0	4	1	0	4	4	0	1	0	7	2	1	0
Non seasonal influenza A (H1N1)	41	0	19	12	6	0	0	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Paratyphoid fever	25	0	4	5	5	1	1	0	0	0	0	0	0	1	2	1	0	0	4	0	0	1
Pertussis	764	13	31	21	42	108	15	30	4	5	15	4	19	21	63	7	86	24	196	17	16	27
Rheumatic fever	157	12	13	14	37	30	3	4	4	1	10	1	6	8	10	1	1	0	2	0	0	0
Rickettsial disease	12	0	3	2	0	6	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Rubella	11	0	1	2	0	0	0	2	0	0	2	0	0	0	0	0	0	0	3	0	1	0
Salmonellosis	1263	43	107	101	113	119	29	61	27	29	42	14	38	44	72	20	52	9	159	36	103	45
Shigellosis	134	4	24	24	27	5	1	6	0	1	1	0	0	3	9	1	7	1	11	2	4	3
Tuberculosis disease	308	11	51	55	62	22	5	10	2	2	5	1	5	9	27	0	7	0	29	2	1	2
Typhoid fever	41	0	5	7	20	0	0	0	0	0	0	0	0	1	7	0	0	0	1	0	0	0
VTEC/STEC infection	150	12	9	25	9	26	4	7	6	9	2	1	2	3	4	2	2	2	16	2	5	2
Yersiniosis	479	17	43	61	34	31	11	16	2	18	19	3	1	28	65	2	7	13	83	12	6	7
Total	14865	483	1680	1678	1505	1353	353	583	128	381	537	205	470	558	1248	144	489	145	1638	298	592	397

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`VtVYf`&\$\$,`h`Y`gY`hc`U`g`UbX`fUH`g`UFY`XYf]j`YX`Z`ca`h`Y`9d]G]`fj`fYdcfhXUH`Ug`cddcgYX`hc`h`Y`YUf`YghUj`U]`UV`Y`XUH`i`gYX`]b`h`Y`a`Yb]b[`cVtVWU`X]gYUgY`gYVW]cb`cZ`h`]g`fYdcfh`Bcb!`gYUgcbU`]bZi`YbnU`fWdUV`Y`cZ`f`Ubga`]gg]cb`VY`k`YYb`\\i`a`Ub`VY]b[`g`VYVWla`Y`Ub`]bZYVW]ci`g`bch]Z]UV`Y`X]gYUgY`cb`&-`5df]`&\$\$-`”

National Notifiable Disease Surveillance Data April 2009

Disease	Current Year - 2009 ¹			Previous Year - 2008		
	April 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	April 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	423	2318	160.6	397	2157	227.4
Cryptosporidiosis	52	185	19.4	39	122	17.8
Dengue fever	8	78	3.5	12	43	1.9
Gastroenteritis	43	182	15.2	44	223	14.9
Giardiasis	109	583	39.4	146	563	33.7
Haemophilus influenzae type b	5	6	0.2	1	6	0.3
Hazardous substances injury	0	3	0.3	0	0	0.1
Hepatitis A	2	12	1.8	6	24	1.1
<YdUh]hg`6	1	15	0.8	4	17	1.4
<YdUh]hg`7	3	17	0.8	0	7	0.6
⋈j Ug]j Y`dbYi a cWŁVWU`X]gYUgY	46	172	7.0	0	0	0.0
Lead absorption	22	111	8.0	28	87	3.2
Legionellosis	5	38	2.1	5	21	1.4
Leptospirosis	6	25	2.6	10	32	1.6
Listeriosis	2	8	0.6	2	11	0.7
Malaria	4	22	1.2	3	11	0.8
Measles	9	37	1.1	1	1	0.4
A Yb]b[cWŁVWU`X]gYUgY	9	31	3.0	6	27	2.6
Mumps	16	24	1.5	7	36	2.1
Non seasonal influenza A (H1N1)	41	41	1.0	0	0	0.0
Paratyphoid fever	3	12	0.6	1	12	0.6
Pertussis	97	433	17.9	19	86	7.0
Rheumatic fever	17	46	3.7	16	41	3.9
Rickettsial disease	0	2	0.3	0	0	0.0
Rubella	4	4	0.3	2	2	0.3
Salmonellosis	82	524	29.6	115	607	32.9
Shigellosis	10	52	3.1	6	31	2.8
Tuberculosis disease	25	105	7.2	23	99	7.0
Typhoid fever	3	23	1.0	2	11	0.8
VTEC/STEC infection	9	85	3.5	12	61	2.9
Yersiniosis	36	198	11.2	47	228	13.4

¹ These data are provisional

² Rate is based on the cumulative total for the current year (12 months up to and including April 2009) or the previous year (12 months up to and including April 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\]g`X]gYUgY`UfY`W`ffYbhmbch]Z]UV`Y

‘⋈j Ug]j Y`dbYi a cWŁVWU`X]gYUgY`VYVWla Y`U`bch]Z]UV`Y`X]gYUgY`cb`h`Y`%+h`C`WŁc`VYf`&\$\$,

‘h`Y`gY`hc`HJ`g`UbX`fU`hY`g`UfY`XYf]j`YX`Zfca`‘h`Y`9d]Gi`fj`‘fydcfhXU`hY`Ug`cddcgYX`hc`‘h`Y`YUf`]YghUj`Uj`UV`Y`XU`hY`i`gYX`]b`‘h`Y`a`Yb]b[`c`WŁc`VWU`X]gYUgY`gYVW]cb`cZ`h\]g`fydcfh

‘C`h`Y`f`bch]Z]UV`Y`]bZYVW]ci`g`X]gYUgY`fydcfhYX`]b`5df]`.‘6fi`W`cg]g`fWŁc`Z`7\Ya`]WU`dc]gcb]b[`Zfca`‘h`Y`Ybj`]fcb`a`Ybh`fWŁc`Z`@Ydfcgmf&Łc`Z`Fcg`F]j`Yf`j`]fi`g`]bZYVW]cb`fWŁc`Z`HYHUb`i`g`fWŁc`

‘Bcb!`gYUgcbU`]bZi`YbnU`fWUdUV`Y`cZ`hfUbg`a`]gg]cb`VY`h`Y`Yb`\i`a`Ub`VY]b[`gŁc`VYVWla`Y`Ub`]bZYVW]ci`g`bch]Z]UV`Y`X]gYUgY`cb`&-`5df]`&\$\$-`"