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## 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 7 September 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

- *Brucellosis*: One case of brucellosis still under investigation was notified in August 2009 from Otago DHB. The case will be denotified as they initially sought medical care for their illness in Europe and attended a New Zealand medical practitioner for follow-up serology. Although still under investigation, an alternative diagnosis is likely.
- *Hazardous substances injury*: One case of hazardous substances injury was notified in August 2009. The case was a 20–29 year old female from MidCentral DHB who was hospitalised following accidental poisoning with elemental mercury. The case is still under investigation and waiting for laboratory-confirmation.
- *Legionellosis*: 13 cases of legionellosis were notified in August 2009 compared to three notified cases in the same month of the previous year (Figure 1). The cases were from Counties Manukau (6), Waitemata (4), Auckland (2) and Northland (1) DHBs. One case was hospitalised. The cases were in the following age groups: 40–49 years (3), 60–69 years (3), 20–29 years (2), 30–39 years (2), 50–59 years (2) and 70+ years (1). The species involved was identified only for one case, *Legionella dumoffii*.
- *Measles*: 86 cases of measles (55 confirmed, 15 probable, and 16 under investigation) were notified in August 2009 compared to 88 notifications in the preceding month and one notification in the same month of the previous year. There were 40 laboratory confirmed cases. The highest number of cases was recorded from Canterbury DHB (54 cases) followed by Waitemata DHB (11 cases). Six cases were hospitalised. One outbreak (still ongoing) involving over 4 cases was reported from Auckland DHB. For more information on the measles situation in New Zealand, including the age, ethnicity, and vaccination status of cases, please refer to the Measles Weekly Report available from <http://www.surv.esr.cri.nz/surveillance/WeeklyMeaslesRpt.php>.

- *Meningococcal disease*: Based on the earliest date available<sup>1</sup>, 25 cases (20 laboratory-confirmed) of meningococcal disease were notified during August 2009. In comparison, 22 cases were notified the previous month, July 2009, and 18 cases were notified during the same month last year, August 2008. For the 12 month period ending 31 August 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, 3 cases) and Hawke's Bay DHB (6.5 per 100 000, 10 cases). The highest age-specific incidence rate was in infants aged less than one year (42.1 per 100 000 population, 27 cases), followed by those in the 1–4 years age group (12.7 per 100 000, 30 cases) and those in the 15–19 years age group (6.5 per 100 000, 21 cases).
- *Mumps*: 13 cases of mumps (5 confirmed, 3 probable, and 5 under investigation) were notified in August 2009 compared to five notified cases in the same month of the previous year. The cases were reported from Canterbury (4), Counties Manukau (2), Capital and Coast (2), Northland (1), Auckland (1), Bay of Plenty (1), Wairarapa (1), and Otago (1) DHBs. The highest number of cases was recorded by those in the 5–9 years and 40–49 years age groups (3 cases each). Of the five confirmed cases, one had received one dose of vaccine (as appropriate for their age), three were reported to be unvaccinated (one child aged 5–9 years and two adults) and the immunisation status of the remaining adult case is unknown. One outbreak (interim report) involving 2 cases at a preschool in Canterbury DHB was reported.
- *Non-seasonal influenza*: In New Zealand, non seasonal influenza A (H1N1) became notifiable on 29 April 2009 and 298 cases of influenza A (H1N1) were notified in August 2009 (296 confirmed and 2 under investigation). The preceding month reported 2101 cases. There were 93 hospitalised cases. The highest number of cases was recorded from Canterbury (47 cases) followed by Otago (29 cases) and Tairāwhiti (27 cases) DHBs. 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*: 122 cases of pertussis were notified in August 2009, compared to 107 notifications in the preceding month and 34 notifications in same month of the previous year (Figure 2). There were 23 (18.9%) laboratory-confirmed cases. The highest numbers of cases were reported from Canterbury (30 cases) and Waikato (22 cases) DHBs. For the 12 month period ending 31 August 2009, the highest incidence rates were reported from West Coast (86.5 per 100 000 population, 28 cases) and Nelson Marlborough (70.7 per 100 000, 96 cases) DHBs compared to a national rate of 25.9 per 100 000 population. The current 12 month rate by age group was highest amongst infants aged less than one year (153.0 per 100 000 population, 98 cases), followed by children in the 1–4 years age group (49.2 per 100 000, 116 cases).
- *Rickettsial disease*: One laboratory-confirmed case of murine typhus was notified in August 2009. The case was a 40–49 year old female from Waitemata 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 or compost.

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<sup>1</sup> 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:* 19 outbreak reports were entered into EpiSurv and completed during August 2009 (Table 1).

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

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Bordetella</i>	West Coast	1	5
<i>Campylobacter</i>	Auckland	1	3
Gastroenteritis	Auckland	3	6
<i>Giardia</i>	Auckland	3	9
Influenza-like illness	Manawatu	1	17
Norovirus	Auckland, Wellington Canterbury, South Canterbury	6	226
Rotavirus	Auckland, Taranaki	3	21
<i>Shigella</i>	Auckland	1	4
<b>Total</b>		19	291

*Interim outbreak reports:* 38 interim outbreaks have been reported in August 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 August 2009

Organism/Toxin/Illness	Reporting Public Health District	Number of outbreaks	Total number of cases
<i>Bordetella</i>	Wellington	1	4
<i>Cryptosporidium</i>	Auckland	1	4
Gastroenteritis	Auckland, Waikato, Hawke's Bay, Wanganui, Manawatu, Wellington, Otago	27	208
Measles	Auckland	1	4
Mumps	Canterbury	1	2
<i>Mycobacterium</i>	Wellington	1	8
Norovirus	Auckland, Waikato, Taupo	3	58
Rotavirus	Wellington	1	-
<i>Salmonella</i>	Waikato, Manawatu	2	7
<b>Total</b>		38	295

### 3. Deaths from notifiable diseases

Five deaths were reported for the month of August from invasive pneumococcal disease, meningococcal disease and non seasonal influenza A (H1N1) (Table 3).

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

<b>Disease</b>	<b>District Health Board</b>	<b>Age group</b>
Invasive pneumococcal disease	Waikato	60 to 69
Invasive pneumococcal disease	Hutt Valley	50 to 59
Invasive pneumococcal disease	Otago	70+
Meningococcal disease	Counties Manukau	<1
Non seasonal influenza A (H1N1)	Waitemata	30 to 39

#### 4. Trends in selected diseases to August 2009

Figure 1: Legionellosis notifications by month by year, January 2004 – August 2009

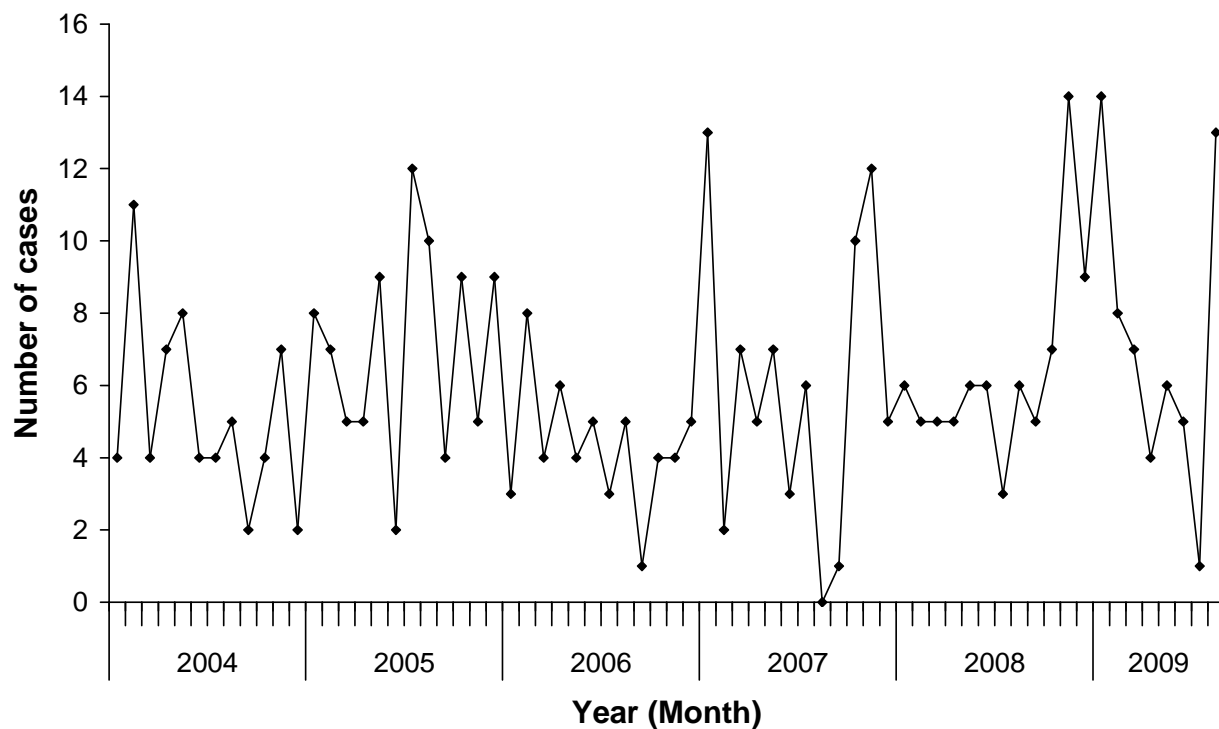
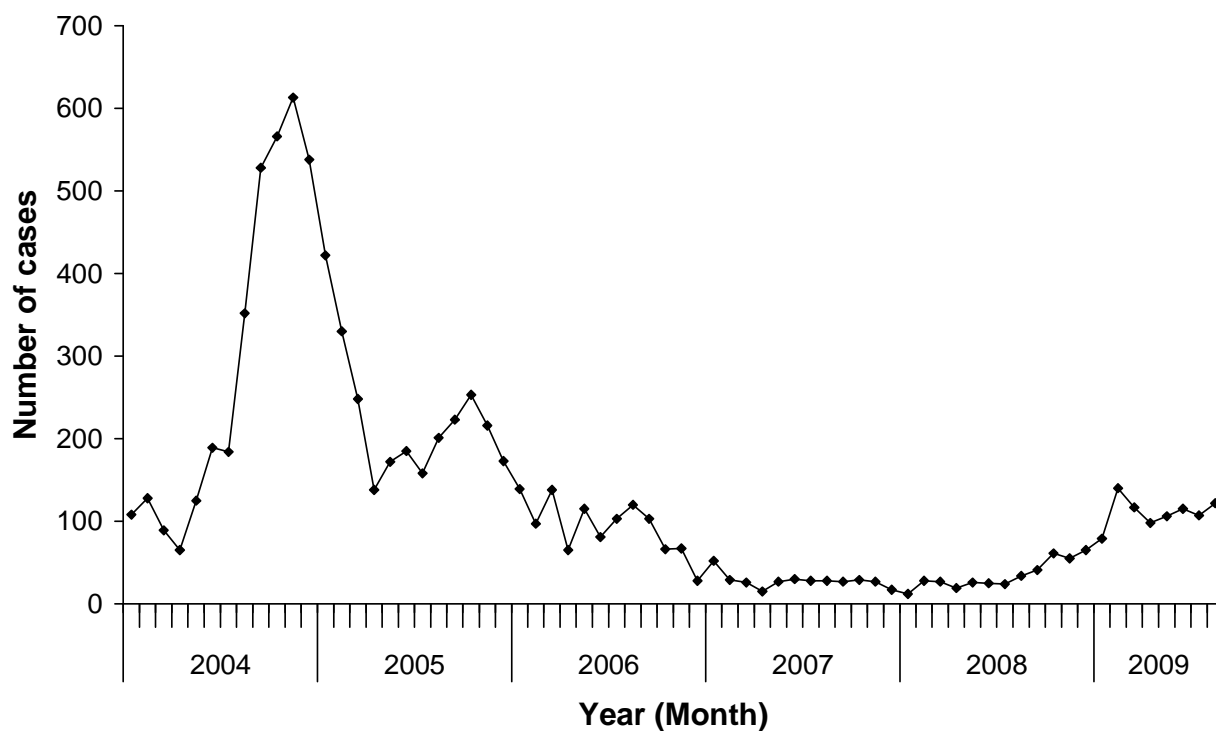


Figure 2: Pertussis notifications by month by year, January 2004 – August 2009



## 5. Data Tables

### National Notifiable Disease Surveillance Data August 2009

Disease	Current Year - 2009 <sup>1</sup>			Previous Year - 2008		
	August 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	August 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	549	4104	164.7	569	3768	181.4
Cryptosporidiosis	48	401	21.6	51	243	14.9
Dengue fever	6	126	3.9	8	72	2.1
Gastroenteritis	53	409	16.5	35	392	14.3
Giardiasis	127	1129	39.1	142	1122	35.7
Haemophilus influenzae type b	2	8	0.2	0	7	0.2
Hazardous substances injury	1	2	0.2	0	0	0.0
Hepatitis A	8	33	1.4	10	64	1.8
Hepatitis B <sup>4</sup>	6	46	1.3	2	29	1.2
Hepatitis C <sup>4</sup>	2	31	0.9	1	15	0.5
Invasive pneumococcal disease <sup>5</sup>	61	465	13.9	0	0	0.0
Lead absorption	20	268	9.0	50	200	5.5
Legionellosis	13	58	2.2	3	38	1.4
Leptospirosis	6	47	2.3	6	68	2.0
Listeriosis	3	18	0.6	5	19	0.7
Malaria	6	36	1.2	4	23	0.8
Measles	86	214	5.1	1	9	0.4
Meningococcal disease <sup>6</sup>	25	92	3.1	16	80	2.7
Mumps	13	47	1.4	5	62	2.3
Non seasonal influenza A (H1N1) <sup>7</sup>	298	3613	84.6	0	0	0.0
Paratyphoid fever	4	19	0.6	5	19	0.7
Pertussis	122	884	25.9	34	195	6.9
Rheumatic fever	20	111	3.7	13	107	2.9
Rickettsial disease	2	4	0.2	3	7	0.2
Rubella	2	8	0.2	1	7	0.3
Salmonellosis	81	813	29.1	81	915	31.7
Shigellosis	11	91	3.0	8	75	2.5
Tuberculosis disease	41	218	7.5	20	196	6.7
Typhoid fever	1	30	0.8	3	23	0.7
VTEC/STEC infection	7	103	3.2	9	93	3.0
Yersiniosis	28	291	10.0	47	371	12.7

<sup>1</sup> These data are provisional

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

<sup>3</sup> Cases of gastroenteritis from a common source or foodborne intoxication

<sup>4</sup> Only acute cases of this disease are currently notifiable

<sup>5</sup> Invasive pneumococcal disease became a notifiable disease on the 17th October 2008

<sup>6</sup> 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

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

Other notifiable infectious disease reported in August: Brucellosis (1) , Chemical poisoning from the environment (1)

Notifiable Disease Surveillance Data by District Health Board August 2009

		Cases <sup>1</sup> and current rate <sup>2</sup> for August 2009 by District Health Board <sup>3</sup>																					
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	27	71	64	40	73	17	13	3	34	23	11	20	36	60	1	7	3	27	4	10	5	
	Rate	148.7	179.6	180.3	140.3	178.5	170.4	130.5	45.8	212.6	200.2	202.2	126.9	245.2	236.6	150.9	155.5	132.8	113.9	226.0	131.4	152.5	
Cryptosporidiosis	Cases	4	4	2	2	5	2	1	0	0	3	0	6	2	9	0	2	0	2	2	0	2	
	Rate	22.0	10.6	10.3	7.6	30.3	21.7	13.1	13.1	24.1	24.1	20.5	23.1	14.8	36.6	45.3	20.6	49.4	27.2	95.8	21.9	53.2	
Dengue fever	Cases	0	2	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
	Rate	1.9	3.8	6.8	10.6	2.0	2.0	3.4	4.4	0.9	3.3	3.2	2.4	1.4	4.6	2.5	0.7	3.1	2.8	0.0	0.5	0.9	
Gastroenteritis	Cases	3	6	10	6	3	1	1	0	0	1	1	1	5	8	1	1	0	4	0	1	0	
	Rate	3.9	21.9	25.1	14.2	8.7	7.9	5.4	4.4	0.0	3.9	28.4	65.6	31.7	27.8	5.0	2.2	9.3	15.3	16.3	3.2	0.9	
Giardiasis	Cases	2	11	6	18	10	3	12	1	4	8	2	1	2	18	2	8	1	14	1	0	3	
	Rate	33.0	31.1	49.5	43.3	42.1	60.1	30.7	24.0	39.0	51.5	22.1	9.1	28.9	62.9	32.7	37.6	46.3	34.3	30.7	30.4	48.7	
Haemophilus influenzae type b	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
	Rate	0.6	0.4	0.0	0.4	0.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	
Hazardous substances injury	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	0.6	0.5	0.0	0.8	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	0	2	1	0	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	
	Rate	1.9	0.8	1.8	1.7	0.6	1.0	1.5	0.0	1.9	2.0	7.9	5.5	1.4	1.1	0.0	0.0	0.0	1.0	0.0	0.0	0.0	
Hepatitis B	Cases	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	
	Rate	1.3	1.3	3.0	1.3	0.0	0.0	1.9	0.0	1.9	0.0	0.0	1.2	0.0	1.1	7.5	2.2	6.2	1.2	0.0	0.5	0.9	
Hepatitis C	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	Rate	0.6	0.2	1.1	0.8	0.0	3.0	0.5	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	
Ebola Virus Disease	Cases	4	11	5	10	5	3	1	2	3	2	1	1	2	3	0	1	0	5	0	1	1	
	Rate	11.0	10.8	11.6	18.0	21.1	21.7	16.1	17.4	17.6	20.2	9.5	8.5	15.5	8.1	25.2	13.3	3.1	10.9	12.7	13.3	13.5	
Lead absorption	Cases	1	1	10	3	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	1	0	
	Rate	1.9	8.6	26.7	12.0	7.9	5.9	3.9	8.7	5.6	2.0	14.2	9.7	8.5	3.9	7.5	2.9	0.0	5.4	1.8	9.1	7.2	
Legionellosis	Cases	1	4	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rate	1.3	2.9	2.3	3.2	1.4	1.0	3.4	0.0	1.9	2.6	1.6	0.6	1.4	1.1	5.0	1.5	6.2	2.4	5.4	1.6	0.9	
Leptospirosis	Cases	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	2	0	0	1	
	Rate	6.5	0.0	0.2	0.0	4.8	3.9	5.4	8.7	6.5	5.9	6.3	2.4	0.0	0.4	2.5	1.5	12.4	1.8	1.8	2.7	2.7	
Listeriosis	Cases	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	
	Rate	0.6	0.8	1.1	0.8	0.3	0.0	0.5	2.2	0.9	0.0	1.6	1.2	0.0	0.4	0.0	0.0	0.0	0.4	0.0	1.1	0.0	
Malaria	Cases	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
	Rate	0.6	1.3	2.1	4.4	0.8	0.0	0.5	0.0	0.0	0.7	0.0	0.0	0.7	0.7	0.0	0.7	6.2	0.8	0.0	0.0	0.0	
Measles	Cases	1	11	4	3	0	1	1	0	2	0	0	0	2	0	0	2	0	54	0	1	4	
	Rate	1.3	3.1	1.6	0.8	0.3	1.0	0.5	0.0	1.9	0.0	1.6	0.0	1.4	0.4	0.0	1.5	0.0	27.6	1.8	18.7	3.6	
Aedes Mosquito Bites	Cases	1	1	4	3	1	0	1	1	0	1	0	1	1	2	1	0	0	6	0	0	1	
	Rate	5.2	1.5	2.5	4.2	1.7	4.9	2.4	10.9	2.8	6.5	3.2	2.4	4.2	3.9	7.5	1.5	3.1	2.8	1.8	3.2	2.7	
Mumps	Cases	1	0	1	2	0	0	1	0	0	0	0	0	0	2	1	0	0	4	0	1	0	
	Rate	3.2	0.8	1.1	0.8	2.0	1.0	2.4	0.0	0.0	0.7	1.6	0.0	2.8	1.8	5.0	0.7	0.0	2.4	3.6	1.1	0.0	
Bacterial Meningitis	Cases	12	18	22	17	24	5	13	27	3	6	5	5	2	19	4	3	4	47	23	29	10	
	Rate	115.1	62.6	83.8	63.6	49.1	49.3	51.6	104.6	29.7	113.5	112.1	48.0	157.9	178.3	105.7	58.2	197.7	119.4	133.8	42.2	40.6	
Paratyphoid fever	Cases	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rate	0.0	1.2	0.7	0.8	0.6	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	0	13	12	10	22	1	4	1	0	3	1	1	2	6	0	4	3	30	2	5	2	
	Rate	8.4	13.8	11.2	12.0	43.0	24.6	23.9	15.3	16.7	17.6	11.1	15.2	32.4	30.6	12.6	70.7	86.5	53.8	47.0	11.2	25.3	
Rheumatic fever	Cases	2	1	2	4	1	0	1	7	0	1	0	0	0	1	0	0	0	0	0	0	0	
	Rate	8.4	1.3	2.5	9.5	7.9	4.9	1.9	24.0	0.9	4.6	1.6	3.0	5.6	3.2	0.0	0.7	0.0	0.2	0.0	0.0	0.0	
Rickettsial disease	Cases	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rate	0.0	0.6	0.0	0.0	0.8	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	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	
	Rate	0.0	0.0	0.5	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	0.5	0.0	
Salmonellosis	Cases	2	9	6	2	8	1	2	2	2	5	4	8	2	6	1	0	0	14	0	6	1	
	Rate	27.1	19.4	25.1	22.4	32.8	27.6	23.4	63.2	22.3	39.8	22.1	21.9	28.2	23.2	42.8	34.6	27.8	34.3	66.9	50.7	42.4	
Shigellosis	Cases	0	3	2	0	2	0	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	
	Rate	1.9	4.8	4.8	5.5	2.2	2.0	1.9	2.2	0.0	0.7	0.0	0.6	2.1	3.2	2.5	5.2	3.1	1.8	3.6	1.1	2.7	
Tuberculosis disease	Cases	1	6	4	7	3	3	2	0	0	1	0	0	2	6	0	2	0	4	0	0	0	
	Rate	6.5	8.6	13.9	14.2	5.6	6.9	3.9	0.0	1.9	5.2	0.0	4.9	9.2	9.8	0.0	5.2	0.0	6.0	3.6	0.5	1.8	
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	1.2	2.1	2.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0										

<sup>1</sup> These data are provisional

<sup>2</sup> Current rate is based on the cumulative total for the 12 months up to and including August 2009 expressed as cases per 100 000

<sup>3</sup> Further data are available from the local Medical Officer of Health

‘b] Uglj`Y`dbYi a cVc`VVU`X]gYUgY`VYWUa`Y`U`bch]Z]UV`Y`X]gYUgY`cb`h`Y`%+h`C`Vh`c`VYf`&\$\$,  
`H`Y`gY`h`U`g`UbX`f`UH`g`UFY`XYfj]`YX`Zfca`h`Y`9d]Gi`fj`fYdcfhXUH`Ug`cddcgYX`h`h`Y`YUf`Y]gh`Uj`Uj]`UV`Y`XUH`i`gYX`]b`h`Y`a`Yb]b[`c`Vc`VVU`X]gYUgY`gYVU]cb`c`ZH`jg`fYdcfh  
`Bcb]`gYUgcbU`]bZi`YbnU`f`WUdUV`Y`c`ZH`f`Ubga`]gg]cb`VYh`YYb`i`a`Ub`VY]b[`gk`VYWUa`Y`Ub`]bZYVU]ci`g`bch]Z]UV`Y`X]gYUgY`cb`&-`5dfj`i`&\$-\$`-`"

Notifiable Disease Surveillance Data by District Health Board August 2009

		Cases <sup>1</sup> and current rate <sup>2</sup> for August 2009 by District Health Board <sup>3</sup>																					
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	27	71	64	40	73	17	13	3	34	23	11	20	36	60	1	7	3	27	4	10	5	
	Rate	148.7	179.6	180.3	140.3	178.5	170.4	130.5	45.8	212.6	200.2	202.2	126.9	245.2	236.6	150.9	155.5	132.8	113.9	226.0	131.4	152.5	
Cryptosporidiosis	Cases	4	4	2	2	5	2	1	0	0	3	0	6	2	9	0	2	0	2	2	0	2	
	Rate	22.0	10.6	10.3	7.6	30.3	21.7	13.1	13.1	24.1	24.1	20.5	23.1	14.8	36.6	45.3	20.6	49.4	27.2	95.8	21.9	53.2	
Dengue fever	Cases	0	2	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
	Rate	1.9	3.8	6.8	10.6	2.0	2.0	3.4	4.4	0.9	3.3	3.2	2.4	1.4	4.6	2.5	0.7	3.1	2.8	0.0	0.5	0.9	
Gastroenteritis	Cases	3	6	10	6	3	1	1	0	0	1	1	1	5	8	1	1	0	4	0	1	0	
	Rate	3.9	21.9	25.1	14.2	8.7	7.9	5.4	4.4	0.0	3.9	28.4	65.6	31.7	27.8	5.0	2.2	9.3	15.3	16.3	3.2	0.9	
Giardiasis	Cases	2	11	6	18	10	3	12	1	4	8	2	1	2	18	2	8	1	14	1	0	3	
	Rate	33.0	31.1	49.5	43.3	42.1	60.1	30.7	24.0	39.0	51.5	22.1	9.1	28.9	62.9	32.7	37.6	46.3	34.3	30.7	30.4	48.7	
Haemophilus influenzae type b	Cases	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
	Rate	0.6	0.4	0.0	0.4	0.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	
Hazardous substances injury	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	0.6	0.5	0.0	0.8	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	0	2	1	0	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	
	Rate	1.9	0.8	1.8	1.7	0.6	1.0	1.5	0.0	1.9	2.0	7.9	5.5	1.4	1.1	0.0	0.0	0.0	1.0	0.0	0.0	0.0	
Hepatitis B	Cases	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	
	Rate	1.3	1.3	3.0	1.3	0.0	0.0	1.9	0.0	1.9	0.0	0.0	1.2	0.0	1.1	7.5	2.2	6.2	1.2	0.0	0.5	0.9	
Hepatitis C	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
	Rate	0.6	0.2	1.1	0.8	0.0	3.0	0.5	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	
Ebola Virus Disease	Cases	4	11	5	10	5	3	1	2	3	2	1	1	2	3	0	1	0	5	0	1	1	
	Rate	11.0	10.8	11.6	18.0	21.1	21.7	16.1	17.4	17.6	20.2	9.5	8.5	15.5	8.1	25.2	13.3	3.1	10.9	12.7	13.3	13.5	
Lead absorption	Cases	1	1	10	3	0	0	0	0	1	0	0	0	1	1	0	0	0	1	0	1	0	
	Rate	1.9	8.6	26.7	12.0	7.9	5.9	3.9	8.7	5.6	2.0	14.2	9.7	8.5	3.9	7.5	2.9	0.0	5.4	1.8	9.1	7.2	
Legionellosis	Cases	1	4	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rate	1.3	2.9	2.3	3.2	1.4	1.0	3.4	0.0	1.9	2.6	1.6	0.6	1.4	1.1	5.0	1.5	6.2	2.4	5.4	1.6	0.9	
Leptospirosis	Cases	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	2	0	0	1	
	Rate	6.5	0.0	0.2	0.0	4.8	3.9	5.4	8.7	6.5	5.9	6.3	2.4	0.0	0.4	2.5	1.5	12.4	1.8	1.8	2.7	2.7	
Listeriosis	Cases	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	
	Rate	0.6	0.8	1.1	0.8	0.3	0.0	0.5	2.2	0.9	0.0	1.6	1.2	0.0	0.4	0.0	0.0	0.0	0.4	0.0	1.1	0.0	
Malaria	Cases	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
	Rate	0.6	1.3	2.1	4.4	0.8	0.0	0.5	0.0	0.0	0.7	0.0	0.0	0.7	0.7	0.0	0.7	6.2	0.8	0.0	0.0	0.0	
Measles	Cases	1	11	4	3	0	1	1	0	2	0	0	0	2	0	0	2	0	54	0	1	4	
	Rate	1.3	3.1	1.6	0.8	0.3	1.0	0.5	0.0	1.9	0.0	1.6	0.0	1.4	0.4	0.0	1.5	0.0	27.6	1.8	18.7	3.6	
Norovirus	Cases	1	1	4	3	1	0	1	1	0	1	0	1	1	2	1	0	0	6	0	0	1	
	Rate	5.2	1.5	2.5	4.2	1.7	4.9	2.4	10.9	2.8	6.5	3.2	2.4	4.2	3.9	7.5	1.5	3.1	2.8	1.8	3.2	2.7	
Mumps	Cases	1	0	1	2	0	0	1	0	0	0	0	0	0	2	1	0	0	4	0	1	0	
	Rate	3.2	0.8	1.1	0.8	2.0	1.0	2.4	0.0	0.0	0.7	1.6	0.0	2.8	1.8	5.0	0.7	0.0	2.4	3.6	1.1	0.0	
Scarlet fever	Cases	12	18	22	17	24	5	13	27	3	6	5	5	2	19	4	3	4	47	23	29	10	
	Rate	115.1	62.6	83.8	63.6	49.1	49.3	51.6	104.6	29.7	113.5	112.1	48.0	157.9	178.3	105.7	58.2	197.7	119.4	133.8	42.2	40.6	
Paratyphoid fever	Cases	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rate	0.0	1.2	0.7	0.8	0.6	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	0	13	12	10	22	1	4	1	0	3	1	1	2	6	0	4	3	30	2	5	2	
	Rate	8.4	13.8	11.2	12.0	43.0	24.6	23.9	15.3	16.7	17.6	11.1	15.2	32.4	30.6	12.6	70.7	86.5	53.8	47.0	11.2	25.3	
Rheumatic fever	Cases	2	1	2	4	1	0	1	7	0	1	0	0	0	1	0	0	0	0	0	0	0	
	Rate	8.4	1.3	2.5	9.5	7.9	4.9	1.9	24.0	0.9	4.6	1.6	3.0	5.6	3.2	0.0	0.7	0.0	0.2	0.0	0.0	0.0	
Rickettsial disease	Cases	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rate	0.0	0.6	0.0	0.0	0.8	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	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	
	Rate	0.0	0.0	0.5	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	0.5	0.0	
Salmonellosis	Cases	2	9	6	2	8	1	2	2	2	5	4	8	2	6	1	0	0	14	0	6	1	
	Rate	27.1	19.4	25.1	22.4	32.8	27.6	23.4	63.2	22.3	39.8	22.1	21.9	28.2	23.2	42.8	34.6	27.8	34.3	66.9	50.7	42.4	
Shigellosis	Cases	0	3	2	0	2	0	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	
	Rate	1.9	4.8	4.8	5.5	2.2	2.0	1.9	2.2	0.0	0.7	0.0	0.6	2.1	3.2	2.5	5.2	3.1	1.8	3.6	1.1	2.7	
Tuberculosis disease	Cases	1	6	4	7	3	3	2	0	0	1	0	0	2	6	0	2	0	4	0	0	0	
	Rate	6.5	8.6	13.9	14.2	5.6	6.9	3.9	0.0	1.9	5.2	0.0	4.9	9.2	9.8	0.0	5.2	0.0	6.0	3.6	0.5	1.8	
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	1.2	2.1	2.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									

<sup>1</sup> These data are provisional

<sup>2</sup> Current rate is based on the cumulative total for the 12 months up to and including August 2009 expressed as cases per 100 000

<sup>3</sup> Further data are available from the local Medical Officer of Health

Ēbĭ Ugĭĭ Y`dbYi a cVŁVWU`X]gYUgY`VYWUa Y`U`bchĭZ]UV`Y`X]gYUgY`cb`h\Y`%+h\`C`VŁcVYf`&\$\$,  
h\YgY`hcH`U`g`UbX`fUH`g`UFY`XYfĭ] YX`Zfca`h\Y`9d]Gĭ`fĭ`fYdcfhXUH`Y`Ug`cddcgYX`hc`h\Y`YUf`Y]gh`Uĭ`Uĭ]UV`Y`XUH`i`gYX`]b`h\Y`a`Yb]b[`cVŁVWU`X]gYUgY`gYVWĭcb`cZH`ĭg`fYdcfh  
Bcbĭ`gYUgcbU`ĭ]bZĭ`YbnU`5`fĭk`%B`%Ē`  
Bcbĭ`gYUgcbU`ĭ]bZĭ`YbnU`fWUdUV`Y`cZH`fUbg`a`ĭgg]cb`VYh`YYb`ĭi`a`Ub`VY]b[`gŁcVYWUa`Y`Ub`]bZYVWĭci`g`bchĭZ]UV`Y`X]gYUgY`cb`ĭ&-`5dfĭ`ĭ&\$\$\_`-`



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

Disease	Cases for the 12 months ending August 2009 <sup>1 2</sup> by District Health Board <sup>3</sup>																					
	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	7030	230	935	790	664	636	173	268	21	229	307	128	209	348	673	60	211	43	565	125	246	169
Cryptosporidiosis	922	34	55	45	36	108	22	27	6	26	37	13	38	21	104	18	28	16	135	53	41	59
Dengue fever	167	3	20	30	50	7	2	7	2	1	5	2	4	2	13	1	1	1	14	0	1	1
Gastroenteritis	705	6	114	110	67	31	8	11	2	0	6	18	108	45	79	2	3	3	76	9	6	1
Giardiasis	1667	51	162	217	205	150	61	63	11	42	79	14	15	41	179	13	51	15	170	17	57	54
Haemophilus influenzae type b	10	1	2	0	2	1	0	1	0	0	0	0	0	1	0	0	0	0	2	0	0	0
Hazardous substances injury	9	0	3	2	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Hepatitis A	58	3	4	8	8	2	1	3	0	2	3	5	9	2	3	0	0	0	5	0	0	0
Hepatitis B	55	2	7	13	6	0	0	4	0	2	0	0	2	0	3	3	3	2	6	0	1	1
Hepatitis C	39	1	1	5	4	0	3	1	0	6	0	0	2	0	2	2	0	0	11	0	1	0
Ischaemic heart disease	592	17	56	51	85	75	22	33	8	19	31	6	14	22	23	10	18	1	54	7	25	15
Lead absorption	385	3	45	117	57	28	6	8	4	6	3	9	16	12	11	3	4	0	27	1	17	8
Legionellosis	93	2	15	10	15	5	1	7	0	2	4	1	1	2	3	2	2	2	12	3	3	1
Leptospirosis	97	10	0	1	0	17	4	11	4	7	9	4	4	0	1	1	2	4	9	1	5	3
Listeriosis	26	1	4	5	4	1	0	1	1	1	0	1	2	0	1	0	0	0	2	0	2	0
Malaria	53	1	7	9	21	3	0	1	0	0	1	0	0	1	2	0	1	2	4	0	0	0
Measles	217	2	16	7	4	1	1	1	0	2	0	1	0	2	1	0	2	0	137	1	35	4
Non-infectious diseases	134	8	8	11	20	6	5	5	5	3	10	2	4	6	11	3	2	1	14	1	6	3
Mumps	61	5	4	5	4	7	1	5	0	0	1	1	0	4	5	2	1	0	12	2	2	0
Non-infectious diseases	3613	178	326	367	301	175	50	106	48	32	174	71	79	224	507	42	79	64	592	74	79	45
Paratyphoid fever	25	0	6	3	4	2	1	0	0	0	0	0	0	1	2	1	0	0	4	0	0	1
Pertussis	1106	13	72	49	57	153	25	49	7	18	27	7	25	46	87	5	96	28	267	26	21	28
Rheumatic fever	157	13	7	11	45	28	5	4	11	1	7	1	5	8	9	0	1	0	1	0	0	0
Rickettsial disease	7	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Rubella	10	0	0	2	0	0	0	1	0	0	0	0	0	0	2	0	0	0	4	0	1	0
Salmonellosis	1244	42	101	110	106	117	28	48	29	24	61	14	36	40	66	17	47	9	170	37	95	47
Shigellosis	129	3	25	21	26	8	2	4	1	0	1	0	1	3	9	1	7	1	9	2	2	3
Tuberculosis disease	319	10	45	61	67	20	7	8	0	2	8	0	8	13	28	0	7	0	30	2	1	2
Typhoid fever	36	0	6	9	12	1	0	0	0	0	0	0	0	0	7	0	0	0	1	0	0	0
VTEC/STEC infection	136	9	9	25	8	26	3	6	7	7	3	0	2	3	4	2	0	1	14	3	3	1
Yersiniosis	429	14	37	64	23	25	10	12	2	19	17	2	3	26	57	2	6	11	73	12	9	5
Total	19531	662	2095	2158	1901	1639	441	695	169	451	794	300	588	873	1893	190	572	204	2420	376	659	451

<sup>1</sup> These data are provisional

<sup>2</sup> Further data are available from the local Medical Officer of Health

<sup>3</sup> 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 U]`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 August 2009

Disease	Current Year - 2009 <sup>1</sup>			Previous Year - 2008		
	August 2009 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>	August 2008 Cases	Cumulative total since 1 January	Current 12 Month Rate <sup>2</sup>
Campylobacteriosis	549	4104	164.7	569	3768	181.4
Cryptosporidiosis	48	401	21.6	51	243	14.9
Dengue fever	6	126	3.9	8	72	2.1
Gastroenteritis	53	409	16.5	35	392	14.3
Giardiasis	127	1129	39.1	142	1122	35.7
Haemophilus influenzae type b	2	8	0.2	0	7	0.2
Hazardous substances injury	1	2	0.2	0	0	0.0
Hepatitis A	8	33	1.4	10	64	1.8
<YdUh]hg`6	6	46	1.3	2	29	1.2
<YdUh]hg`7	2	31	0.9	1	15	0.5
⊕j Ug]j Y`dbYi a cVŁVWU`X]gYUgY	61	465	13.9	0	0	0.0
Lead absorption	20	268	9.0	50	200	5.5
Legionellosis	13	58	2.2	3	38	1.4
Leptospirosis	6	47	2.3	6	68	2.0
Listeriosis	3	18	0.6	5	19	0.7
Malaria	6	36	1.2	4	23	0.8
Measles	86	214	5.1	1	9	0.4
A Yb]b[ cVŁVWU`X]gYUgY	25	92	3.1	16	80	2.7
Mumps	13	47	1.4	5	62	2.3
Bcb`gYUgcbU`]bZi YbnU`5`fk`%B`%Ł`	298	3613	84.6	0	0	0.0
Paratyphoid fever	4	19	0.6	5	19	0.7
Pertussis	122	884	25.9	34	195	6.9
Rheumatic fever	20	111	3.7	13	107	2.9
Rickettsial disease	2	4	0.2	3	7	0.2
Rubella	2	8	0.2	1	7	0.3
Salmonellosis	81	813	29.1	81	915	31.7
Shigellosis	11	91	3.0	8	75	2.5
Tuberculosis disease	41	218	7.5	20	196	6.7
Typhoid fever	1	30	0.8	3	23	0.7
VTEC/STEC infection	7	103	3.2	9	93	3.0
Yersiniosis	28	291	10.0	47	371	12.7

<sup>1</sup> These data are provisional

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

<sup>3</sup> 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`VYWŁa Y`U`bch]Z]UV`Y`X]gYUgY`cb`h`Y`%+h`C`VŁVYf`&\$\$,  
`h`Y`gY`hc`HJ`g`UbX`fUH`g`UfY`XYf]j`YX`Zfca`h`Y`9d]Gi`fj`fYdcfhXUHY`Ug`cddcgYX`hc`h`Y`YUf`]YghUj`Uj`UV`Y`XUHY`i`gYX`]b`h`Y`  
a Yb]b[ cVŁVWU`X]gYUgY`gYVW]cb`cZ`h`jg`fYdcfh`  
`Bcb!`gYUgcbU`]bZi YbnU`fWŁdUV`Y`cZ`fUbg`jgg]cb`VYhk`YYb`\\i a Ub`VY]b[ gŁVYWŁa Y`Ub`]bZYWŁci`g`bch]Z]UV`Y`X]gYUgY`cb`  
&-`5df]`&\$\$-"

Other notifiable infectious disease reported in August: Brucellosis (1) , Chemical poisoning from the environment (1)