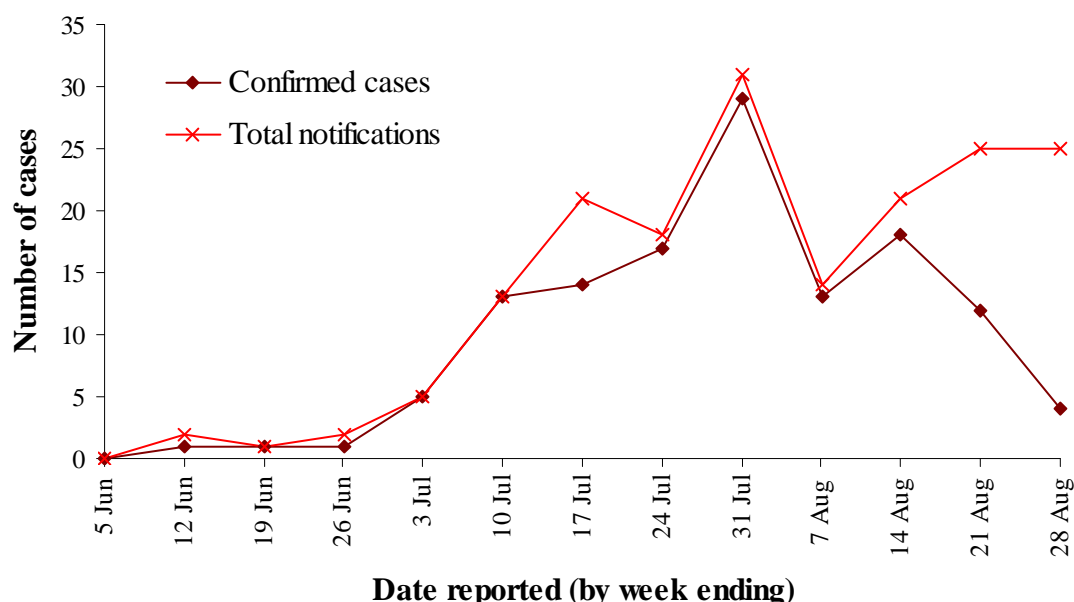


# MEASLES WEEKLY REPORT

This report includes cases of measles reported in EpiSurv up to midnight 28 August 2009. Data was extracted from EpiSurv at 10am 1 September 2009.

In the past week, 25 new cases of measles were notified. The notified cases consisted of four confirmed cases, seven probable cases, and 14 cases under investigation. Of the 11 confirmed and probable cases there was no reported hospitalisations and no reported deaths. The distribution of cases by week since the 30 May 2009 is shown in Figure 1 below. The distribution of cases by age, ethnicity (prioritised), district health board and immunisation status is shown in the tables following this chart.

The total number of confirmed and probable cases reported since 30 May 2009 is 178, including 16 hospitalised cases. There have been no deaths reported.



**Figure 1 : Epidemic curve of confirmed and total measles cases by week reported**

The distribution of cases by age, ethnicity (prioritised) and district health board (DHB) is shown in Tables 1 to 3 below.

Of the 127 confirmed cases reported with a known age since 30 May 2009, 57 (44.9%) were aged 10-19 years of age, 51 (40.2%) were aged under 10 years old and 19 (15.0%) were aged 20 years or older. One confirmed case was of unknown age. Of the four confirmed cases reported in the past week with a known age, all (100.0%) were aged 0-9 years (Table 1).

Of the 127 confirmed cases reported with a known age since 30 May 2009, 71 (55.9%) were aged 12 months to 12 years. All (100.0%) of the four confirmed cases reported in the past week where age was known were aged 12 months to 12 years.

**Table 1 : Age distribution of measles cases and hospitalisations**

Age Group	22 - 28 August 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp <sup>1</sup>	Total	Conf	Prob	Other	Hosp <sup>1</sup>
<15mths	9	1	3	5	0	29	15	6	8	1
15mths-3yrs	8	2	3	3	0	43	20	15	8	2
4-9 yrs	4	1	0	3	0	22	16	1	5	0
10-19 yrs	1	0	1	0	0	61	57	3	1	6
20+ yrs	3	0	0	3	0	22	19	0	3	7
Unknown	0	0	0	0	0	1	1	0	0	0
<b>Total</b>	<b>25</b>	<b>4</b>	<b>7</b>	<b>14</b>	<b>0</b>	<b>178</b>	<b>128</b>	<b>25</b>	<b>25</b>	<b>16</b>
<i>12mths-12yrs</i>	<i>21</i>	<i>4</i>	<i>6</i>	<i>11</i>	<i>0</i>	<i>114</i>	<i>71</i>	<i>22</i>	<i>21</i>	<i>3</i>

<sup>1</sup> Confirmed or probable measles cases where hospitalisation was recorded as "Yes".

Of the 124 confirmed cases of measles reported since 30 May 2009 with a known ethnicity, 105 (84.7%) were European, 10 cases were of Maori ethnicity, five were of Asian ethnicity and four were of Pacific Peoples ethnicity. Of the four confirmed cases reported last week with a known ethnicity, three (75.0%) were of European ethnicity and one (25.0%) was of Asian ethnicity (Table 2).

**Table 2 : Ethnic (prioritised) distribution of measles cases and hospitalisations**

Ethnicity (prioritised)	22 - 28 August 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp <sup>1</sup>	Total	Conf	Prob	Other	Hosp <sup>1</sup>
Maori	2	0	1	1	0	14	10	2	2	1
Pacific Peoples	0	0	0	0	0	5	4	1	0	2
Asian	1	1	0	0	0	6	5	0	1	1
European	19	3	6	10	0	144	105	21	18	11
Unknown	3	0	0	3	0	9	4	1	4	1
<b>Total</b>	<b>25</b>	<b>4</b>	<b>7</b>	<b>14</b>	<b>0</b>	<b>178</b>	<b>128</b>	<b>25</b>	<b>25</b>	<b>16</b>

<sup>1</sup> Confirmed or probable measles cases where hospitalisation was recorded as "Yes".

Of the 128 confirmed cases reported since 30 May 2009, 103 (80.5%) were reported from Canterbury DHB, 19 (14.8%) from the Auckland region (covered by the Waitemata, Auckland and Counties Manukau DHBs), three from Otago DHB (2.3%) and one each (0.8%) from Northland, Nelson Marlborough and Southland DHBs (Table 3). Of the four confirmed cases reported last week, all (100.0%) were reported from Canterbury DHB.

**Table 3 : Geographical distribution of measles cases and hospitalisations**

DHB	22 - 28 August 2009					Cumulative total since 30 May 2009				
	Total	Conf	Prob	Other	Hosp <sup>1</sup>	Total	Conf	Prob	Other	Hosp <sup>1</sup>
Northland	0	0	0	0	0	2	1	0	1	0
Waitemata	0	0	0	0	0	13	11	0	2	3
Auckland	2	0	0	2	0	8	6	0	2	0
Counties Manukau	1	0	0	1	0	4	2	1	1	0
Waikato	0	0	0	0	0	1	0	1	0	0
Lakes	0	0	0	0	0	1	0	0	1	0
Bay of Plenty	1	0	0	1	0	2	0	0	2	0
Taranaki	0	0	0	0	0	2	0	1	1	0
Hawke's Bay	1	0	0	1	0	1	0	0	1	0
Whanganui	0	0	0	0	0	1	0	1	0	0
Hutt Valley	1	0	1	0	0	2	0	1	1	0
Capital and Coast	1	0	0	1	0	1	0	0	1	0
Nelson Marlborough	0	0	0	0	0	1	1	0	0	0
Canterbury	15	4	6	5	0	130	103	19	8	13
South Canterbury	0	0	0	0	0	1	0	1	0	0
Otago	0	0	0	0	0	4	3	0	1	0
Southland	3	0	0	3	0	4	1	0	3	0
<b>New Zealand Total</b>	<b>25</b>	<b>4</b>	<b>7</b>	<b>14</b>	<b>0</b>	<b>178</b>	<b>128</b>	<b>25</b>	<b>25</b>	<b>16</b>

<sup>1</sup> Confirmed or probable measles cases where hospitalisation was recorded as "Yes".

The immunisation status for confirmed and probable measles cases is shown in Table 4 and Table 5.

Of the 11 confirmed and probable measles cases reported in the past week, 10 (90.9%) had a known vaccination status. Of these 10 cases, five cases were not vaccinated although this includes three measles cases aged less than 15 months old who were not eligible for vaccination. Five cases had received only one dose of vaccine, however, one of these cases was aged less than 15 months and had received their first dose (due at 15 months) early and the remaining four cases were aged 15 months to 3 years and therefore only eligible for one dose of vaccine. No cases reported having completed measles vaccination.

**Table 4 : Immunisation status of measles cases (confirmed and probable) notified last week**

Age Group	Total cases	One dose	Two doses	Vaccinated	Not	Unknown
				(no dose info)	vaccinated	
<15mths	4	1	0	0	3	0
15mths-3yrs	5	4	0	0	0	1
4-9 yrs	1	0	0	0	1	0
10-19 yrs	1	0	0	0	1	0
20+ yrs	0	0	0	0	0	0
Unknown	0	0	0	0	0	0
<b>Total</b>	<b>11</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>1</b>

Of the 153 confirmed and probable cases reported since 30 May 2009, 146 (95.4%) had a known vaccination status. Of these 146 cases, 88 were not vaccinated including 18 cases aged less than 15 months and therefore not eligible for vaccination. Thirty four cases had received one dose of vaccine which includes three cases aged less than 15 months who had received their first dose (due at 15 months) early and 23 cases aged 15 months to 3 years who were only eligible for one dose of vaccine. Thirteen cases reported having completed measles vaccination.

**Table 5 : Immunisation status of measles cases (confirmed and probable) notified since 30 May 2009**

Age Group	Total cases	One dose	Two doses	Vaccinated	Not	Unknown
				(no dose info)	vaccinated	
<15mths	21	3	0	0	18	0
15mths-3yrs	35	23	0	1	9	2
4-9 yrs	17	1	1	0	15	0
10-19 yrs	60	5	10	5	39	1
20+ yrs	19	2	2	5	6	4
Unknown	1	0	0	0	1	0
<b>Total</b>	<b>153</b>	<b>34</b>	<b>13</b>	<b>11</b>	<b>88</b>	<b>7</b>

**Case classification:**

<b>Confirmed</b>	A clinically compatible illness that is epidemiologically linked to a confirmed case or is laboratory confirmed
<b>Probable</b>	A clinically compatible illness with all of the following symptoms: <ul style="list-style-type: none"> <li>• a fever <math>\geq 38^{\circ}\text{C}</math></li> <li>• a generalised maculopapular rash lasting three or more days</li> <li>• cough, or coryza, or conjunctivitis, or Koplik spots</li> </ul>
<b>Other</b>	Status recorded as <i>under investigation</i> or cases where there was insufficient information to define the status

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