

# MEASLES REPORT

This report includes cases of measles notified in EpiSurv up to midnight 19 August 2011. Data were extracted from EpiSurv at 10 am, 23 August 2011.

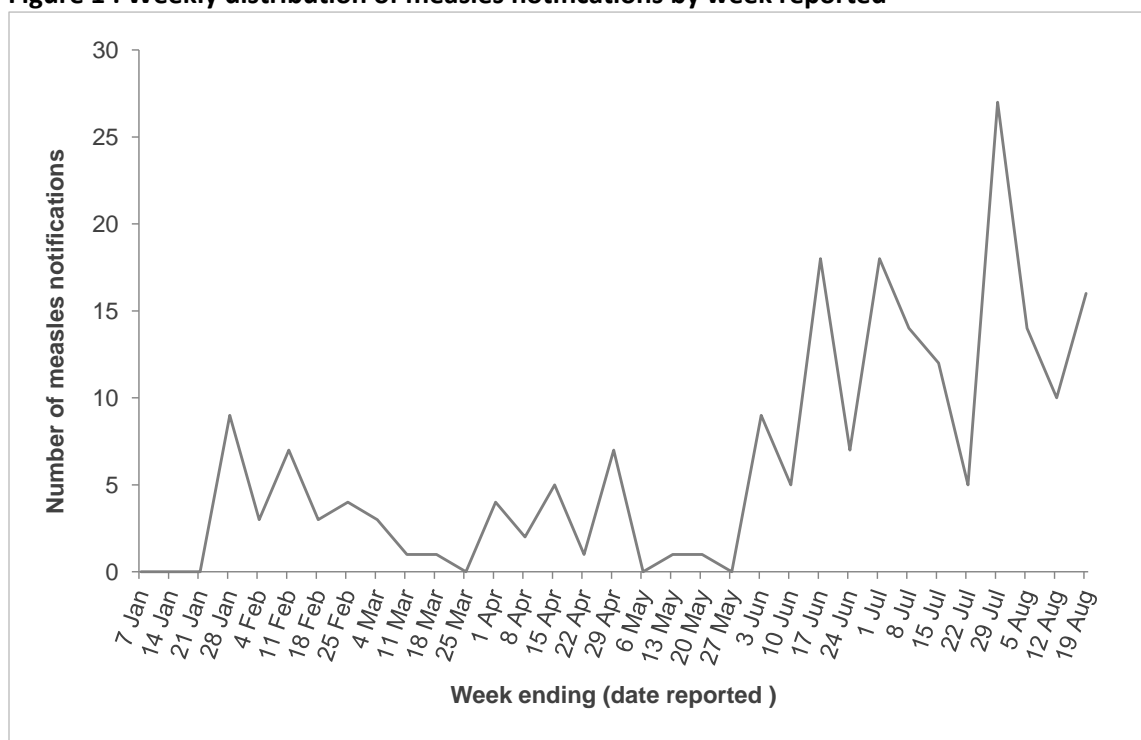
In the last week, 16 new measles cases (16 cases the previous week) were notified from the following DHBs; Waikato (4 cases), Waitemata, Auckland, Lakes, Bay of Plenty and Canterbury (2 cases each), and Southern (one case). Of these notifications, six were confirmed, one was probable and nine are still under investigation. There have been 207 cases of measles reported in EpiSurv since January 2011 (compared to 42 cases reported the same time last year), including 188 confirmed cases, five probable cases and 14 cases are still under investigation. These were reported mainly from the Auckland region (67.1% of total cases), Waikato (12.1%) and Hawke's Bay (11.6%). DHBs reporting cases include Waitemata (106 cases), Waikato (25 cases), Hawke's Bay (24 cases), Auckland (19 cases), Counties Manukau (14 cases), Canterbury (9 cases), Northland, Lakes and Bay of Plenty (2 cases each), Hutt Valley, Capital and Coast, Nelson Marlborough, and Southern DHBs (one case each).

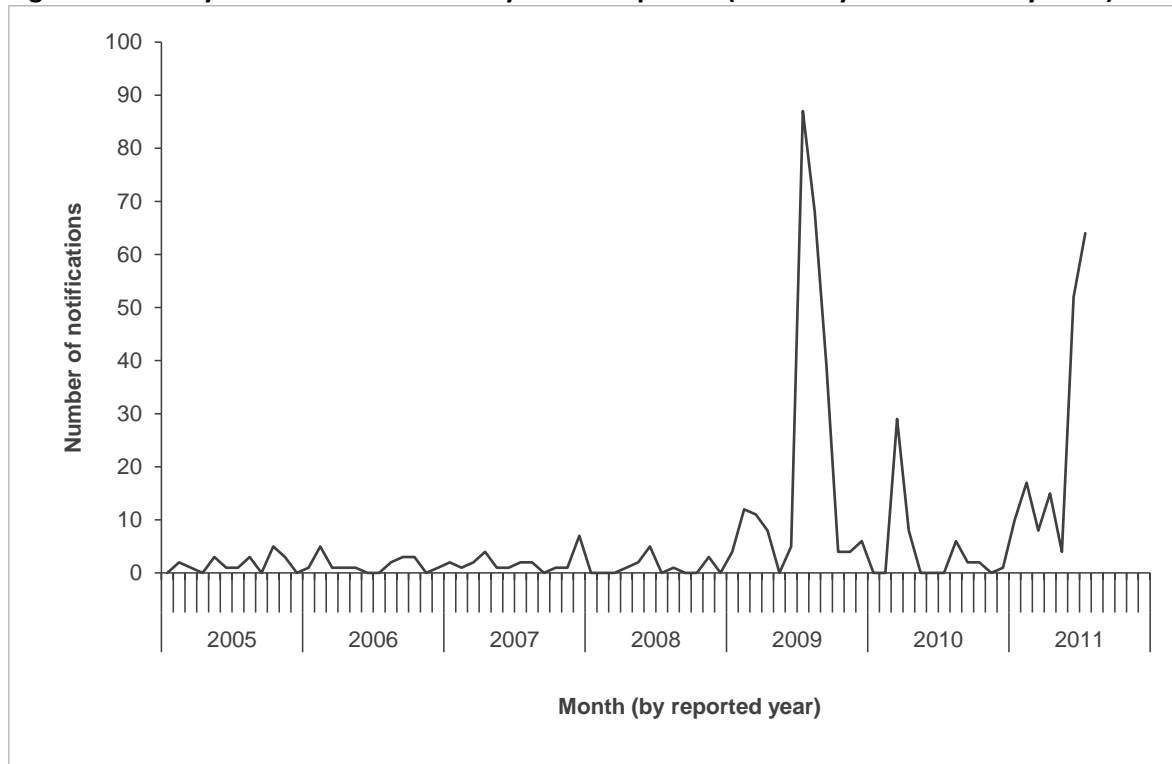
This report incorporates the temporal distribution of cases, since January 2011, and the distribution of cases by age, ethnicity (prioritised), and district health board (DHB), as well as a summary of confirmed cases by immunisation status. The case classification used in this report is specified in the appendix.

## Temporal distribution

Weekly and historical measles notifications for 2011 are shown in Figure 1 and 2, respectively. There have been 16 cases notified in the last week (16 the previous week). The number of cases has increased substantially since the end of May. Of the 207 notifications since the beginning of 2011, 19 have been hospitalised. There have been no reported deaths.

**Figure 1 : Weekly distribution of measles notifications by week reported**



**Figure 2 Monthly measles notifications by month reported (1 January 2005 to 31 July 2011)**

The onset dates were recorded for 12 measles cases notified in the last week, and earliest date was 29 July 2011. Although reporting of onset dates is not always complete, 170 notifications (of 207) since 1 January 2011 have onset dates available. The earliest and last onset dates since January 2011 were 6 January and 17 August, respectively.

### Age and ethnicity

The age and ethnicity distributions of measles cases are shown in Table 1 and 2. Of the 188 confirmed cases with a known age reported since 1 January 2011, 87 (46.3%) were aged under 10 years, 71 (37.8%) were aged 10 to 19 years, and 30 (16.0%) were aged 20 years or older while 14 (5.5%) were aged under 15 months.

Of the 188 cases, 94 (50.0%) were aged 12 months to 12 years and 58 (30.9%) were aged 13 years to 20 years.

**Table 1: Age distribution of measles cases and hospitalisations, 2011**

Age Group	13-19 August 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp <sup>1</sup>	Total	Conf	Prob	Other	Hosp <sup>1</sup>
<15mths	2	0	0	2	0	20	14	3	3	5
15mths-3yrs	2	1	0	1	0	27	22	1	4	1
4-9 yrs	4	0	1	3	0	56	51	1	4	2
10-19 yrs	5	4	0	1	0	72	71	0	1	4
20+ yrs	2	1	0	1	0	31	30	0	1	7
Unknown	1	0	0	1	0	1	0	0	1	0
<b>Total</b>	<b>16</b>	<b>6</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>207</b>	<b>188</b>	<b>5</b>	<b>14</b>	<b>19</b>
12mths - 12yrs	8	1	1	6	0	106	94	2	10	4
13yrs - 20yrs	4	4	0	0	0	58	58	0	0	4

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

**Conf:** confirmed, **Prob:** probable, **Hosp:** hospitalised

Of the 178 confirmed cases with a known ethnicity reported since 1 January 2011, 119 (66.9%) were European, 47 (26.4%) were Maori, 10 (5.6%) were Pacific Peoples, and two (1.1%) were in the "Other" ethnic groups (Table 2). Of the six confirmed cases reported in the last week, ethnicity was recorded for four cases, including Pacific Peoples (2 cases) and European and Maori (one case each). Hospitalisations by ethnicity are also depicted in Table 2.

**Table 2 : Ethnic (prioritised) distribution of measles cases and hospitalisations, 2011**

Ethnicity (prioritised)	13-19 August 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp <sup>1</sup>	Total	Conf	Prob	Other	Hosp <sup>1</sup>
Maori	3	1	0	2	0	51	47	1	3	6
Pacific Peoples	2	2	0	0	0	10	10	0	0	2
Other	0	0	0	0	0	2	2	0	0	1
European	8	1	1	6	0	131	119	3	9	10
Unknown	3	2	0	1	0	13	10	1	2	0
<b>Total</b>	<b>16</b>	<b>6</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>207</b>	<b>188</b>	<b>5</b>	<b>14</b>	<b>19</b>

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

### Geographic distribution

Of the 188 confirmed cases reported since 1 January, 105 (55.9%) were reported from Waitemata, 24 (12.8%) from Hawke's Bay, 19 (10.1%) from Waikato, 19 (10.1%) from Auckland, 14 (7.4%) from Counties Manukau, four (2.1%) from Canterbury, and one each (0.5%) from Northland, Capital and Coast, and Hutt Valley DHBs.

The six confirmed cases in the last week were reported from Auckland and Waitemata (2 cases each) and one each from Counties Manukau and Waikato DHBs.

**Table 3 : Geographical distribution of measles cases and hospitalisations, 2011**

DHB	13-19 August 2011					Cumulative total since 1 Jan 2011				
	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	2	2	0	0	0	106	105	1	0	10
Auckland	2	2	0	0	0	19	19	0	0	2
Counties Manukau	1	1	0	0	0	14	14	0	0	3
Waikato	4	1	1	2	0	25	19	1	5	1
Lakes	2	0	0	2	0	2	0	0	2	0
Bay of Plenty	2	0	0	2	0	2	0	0	2	0
Tairāwhiti	0	0	0	0	0	0	0	0	0	0
Taranaki	0	0	0	0	0	0	0	0	0	0
Hawke's Bay	0	0	0	0	0	24	24	0	0	3
Whanganui	0	0	0	0	0	0	0	0	0	0
MidCentral	0	0	0	0	0	0	0	0	0	0
Hutt Valley	0	0	0	0	0	1	1	0	0	0
Capital and Coast	0	0	0	0	0	1	1	0	0	0
Wairarapa	0	0	0	0	0	0	0	0	0	0
Nelson Marlborough	0	0	0	0	0	1	0	0	1	0
West Coast	0	0	0	0	0	0	0	0	0	0
Canterbury	2	0	0	2	0	9	4	3	2	0
South Canterbury	0	0	0	0	0	0	0	0	0	0
Southern	1	0	0	1	0	1	0	0	1	0
<b>New Zealand Total</b>	<b>16</b>	<b>6</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>207</b>	<b>188</b>	<b>5</b>	<b>14</b>	<b>19</b>

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

## Immunisation status

Immunisation status of the confirmed cases, as recorded in EpiSurv, is shown in Table 4. Of the 188 confirmed cases reported since January 2011, 172 (91.5%) had a known vaccination status. Of these 172 cases, 153 were not vaccinated including the 14 cases aged less than 15 months and therefore not eligible for vaccination. Seventeen cases had received one dose of vaccine but none of these had completed their second dose, and two cases were vaccinated but no dose information was recorded.

**Table 4: Immunisation status of measles cases (confirmed) notified since 1 January 2011**

Age Group	Total cases	One dose	Two doses	Vaccinated (no dose info)	Not vaccinated	Unknown
<15mths	14	1	0	0	13	0
15mths-3yrs	22	4	0	0	18	0
4-9 yrs	51	5	0	1	44	1
10-19 yrs	71	5	0	1	60	5
20+ yrs	30	2	0	0	18	10
Unknown	0	0	0	0	0	0
<b>Total</b>	<b>188</b>	<b>17</b>	<b>0</b>	<b>2</b>	<b>153</b>	<b>16</b>

## Appendix

### 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

This report will be available online from [www.surv.esr.cri.nz](http://www.surv.esr.cri.nz)