

MEASLES REPORT

This report includes cases of measles notified in EpiSurv up to midnight 12 August 2011. Data were extracted from EpiSurv at 10 am, 16 August 2011.

In the last week, 16 new measles cases (17 cases the previous week) were notified from the following DHBs; Waikato (8 cases), Waitemata and Southern (2 cases each), and Northland, Auckland, Hutt Valley and Canterbury (one case each). Of these notifications, eight were confirmed, two are probable cases and six are still under investigation. There have been 198 cases of measles reported in EpiSurv since January 2011 (compared to 38 cases reported the same time last year), including 182 confirmed cases, six probable cases and 10 cases are still under investigation. These were reported mainly from the Auckland region (67.7% of total cases), Hawke’s Bay (12.1%) and Waikato (10.7%). DHBs reporting cases include Waitemata (104 cases), Hawke’s Bay (24 cases), Waikato (21 cases), Auckland (17 cases), Counties Manukau (13 cases), Canterbury (8 cases), Northland (3 cases), Nelson Marlborough, Hutt Valley and Southern (2 cases each), Lakes and Capital and Coast 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 (17 the previous week). The number of cases has increased substantially since the end of May. Of the 198 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

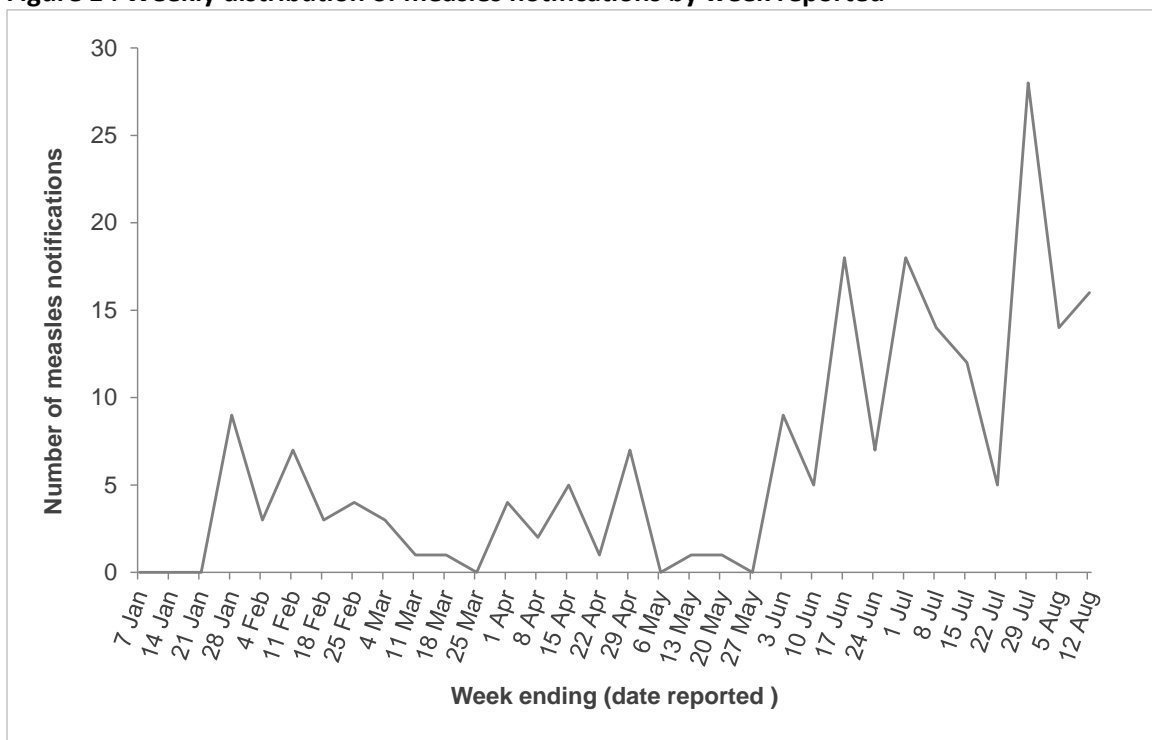
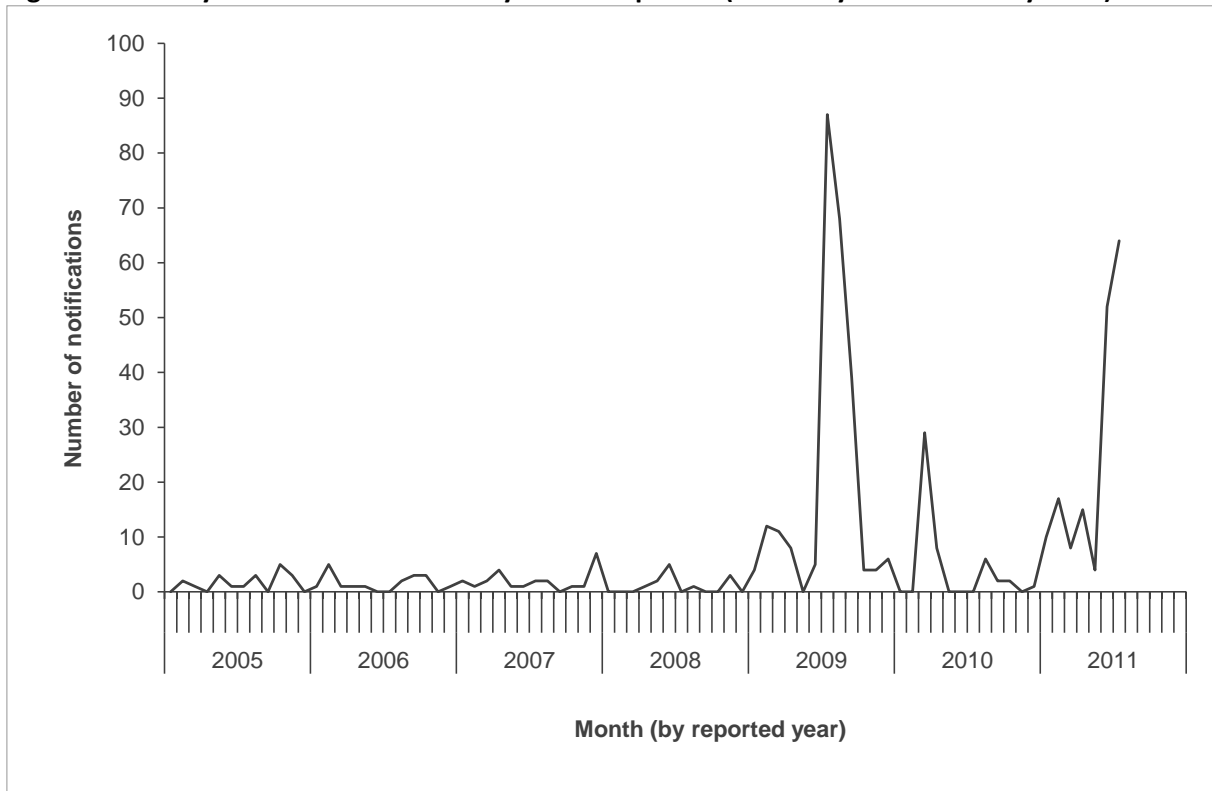


Figure 2 Monthly measles notifications by month reported (1 January 2005 to 31 July 2011)



The onset dates were recorded for 14 measles cases notified in the last week, and earliest date was 01 August 2011. Although reporting of onset dates is not always complete, 165 notifications (of 198) since 1 January 2011 have onset dates available. The earliest and last onset dates since January 2011 were 6 January and 11 August, respectively.

Age and ethnicity

The age and ethnicity distributions of measles cases are shown in Table 1 and 2. Of the 182 confirmed cases with a known age reported since 1 January 2011, 86 (47.3%) were aged under 10 years, 67 (36.8%) were aged 10 to 19 years, and 29 (15.9%) were aged 20 years or older. Of the 182 cases, 93 (51.1%) were aged 12 months to 12 years and 54 (29.7%) were aged 13 years to 20 years.

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

Age Group	06-12 August 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
<15mths	1	0	0	1	0	20	14	3	3	5
15mths-3yrs	3	0	1	2	0	27	21	2	4	1
4-9 yrs	6	4	0	2	0	53	51	0	2	2
10-19 yrs	6	4	1	1	0	69	67	1	1	4
20+ yrs	0	0	0	0	0	29	29	0	0	7
Unknown	0	0	0	0	0	0	0	0	0	0
Total	16	8	2	6	0	198	182	6	10	19
<i>12mths - 12yrs</i>	<i>13</i>	<i>6</i>	<i>2</i>	<i>5</i>	<i>0</i>	<i>103</i>	<i>93</i>	<i>3</i>	<i>7</i>	<i>4</i>
<i>13yrs - 20yrs</i>	<i>2</i>	<i>2</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>54</i>	<i>54</i>	<i>0</i>	<i>0</i>	<i>4</i>

¹ Confirmed or probable measles cases where hospitalisation was recorded as "Yes".

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

Of the 174 confirmed cases with a known ethnicity reported since 1 January 2011, 118 (67.8%) were European, 46 (26.4%) were Maori, eight (4.6%) were Pacific Peoples, and two (1.1%) were in the "Other" ethnic groups (Table 2). Of the eight confirmed cases reported in the last week, ethnicity was recorded for all cases, including European (5 cases) and Maori (3 cases). Hospitalisations by ethnicity are also depicted in Table 2.

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

Ethnicity (prioritised)	06-12 August 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Maori	4	3	1	0	0	49	46	2	1	6
Pacific Peoples	1	0	0	1	0	10	8	0	2	2
Other	0	0	0	0	0	2	2	0	0	1
European	10	5	1	4	0	127	118	3	6	10
Unknown	1	0	0	1	0	10	8	1	1	0
Total	16	8	2	6	0	198	182	6	10	19

¹ Confirmed or probable measles cases where hospitalisation was recorded as "Yes".

Geographic distribution

Of the 182 confirmed cases reported since 1 January, 103 (56.6%) were reported from Waitemata, 24 (13.2%) from Hawke's Bay, 18 (9.9%) from Waikato, 17 (9.3%) from Auckland, 13 (7.1%) from Counties Manukau, four (2.2%) from Canterbury, and one each (0.5%) from Northland, Capital and Coast, and Hutt Valley DHBs.

The eight confirmed cases in the last week were reported from Waikato (6 cases) and Waitemata (2 cases) DHBs.

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

DHB	06-12 August 2011					Cumulative total since 1 Jan 2011				
	Total	Conf	Prob	Other	Hosp ¹	Total	Conf	Prob	Other	Hosp ¹
Northland	1	0	1	0	0	3	1	1	1	0
Waitemata	2	2	0	0	0	104	103	1	0	10
Auckland	1	0	0	0	0	17	17	0	0	2
Counties Manukau	0	0	0	0	0	13	13	0	0	3
Waikato	8	6	0	2	0	21	18	0	3	1
Lakes	0	0	0	0	0	1	0	0	1	0
Bay of Plenty	0	0	0	0	0	0	0	0	0	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	1	0	0	1	0	2	1	0	1	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	2	0	0	2	0
West Coast	0	0	0	0	0	0	0	0	0	0
Canterbury	1	0	0	1	0	8	4	3	1	0
South Canterbury	0	0	0	0	0	0	0	0	0	0
Southern	2	0	1	1	0	2	0	1	1	0
New Zealand Total	16	8	2	5	0	198	182	6	10	19

¹ 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 182 confirmed cases reported since January 2011, 168 (92.3%) had a known vaccination status. Of these 168 cases, 151 were not vaccinated including 13 cases aged less than 15 months and therefore not eligible for vaccination. Fifteen 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	21	3	0	0	18	0
4-9 yrs	51	5	0	1	44	1
10-19 yrs	67	4	0	1	58	4
20+ yrs	29	2	0	0	18	9
Unknown	0	0	0	0	0	0
Total	182	15	0	2	151	14

Appendix

Case classification:

Confirmed	A clinically compatible illness that is epidemiologically linked to a confirmed case or is laboratory confirmed
Probable	A clinically compatible illness with all of the following symptoms: <ul style="list-style-type: none"> • a fever $\geq 38^{\circ}\text{C}$ • a generalised maculopapular rash lasting three or more days • cough, or coryza, or conjunctivitis, or Koplik spots
Other	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