

This report summarises confirmed measles notifications for the previous surveillance week (Week 4: 18–24 January 2020) and cumulative cases since 1 January 2019. The case classification used in this report is specified on the last page.

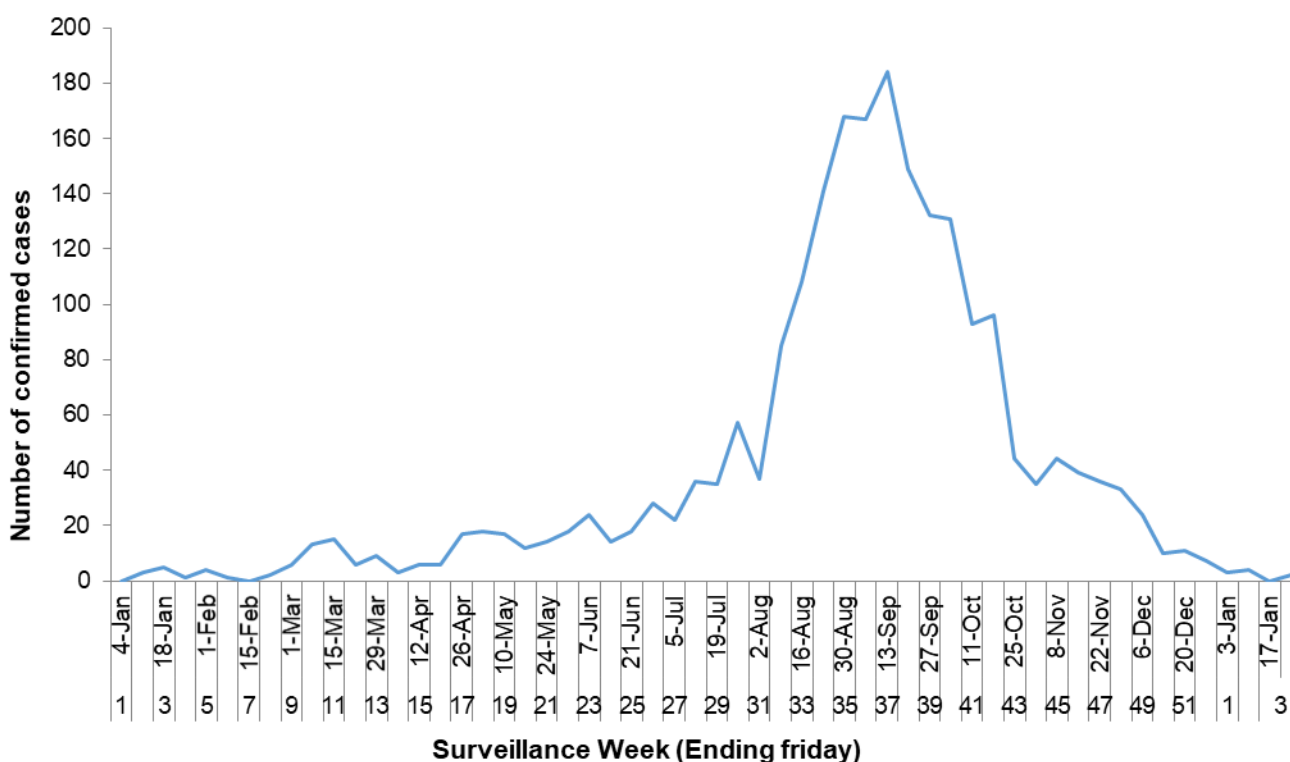
Information is based on data recorded on EpiSurv by public health service staff as at 0830, 27 January 2020. Changes made to EpiSurv data after this time will not be reflected in this report. The results presented may be updated and should be regarded as provisional.

Figures 1 and 2 and Tables 1–4 show data since 1 January 2019. Figure 3 shows historical notifications of confirmed cases from 2009 to the end of the previous surveillance month.

**Summary**

There were two confirmed measles cases reported for Week 4/2020, bringing the total to 2193 since 1 January 2019, with 774 (35.3 %) hospitalisations. There are two ongoing outbreaks.

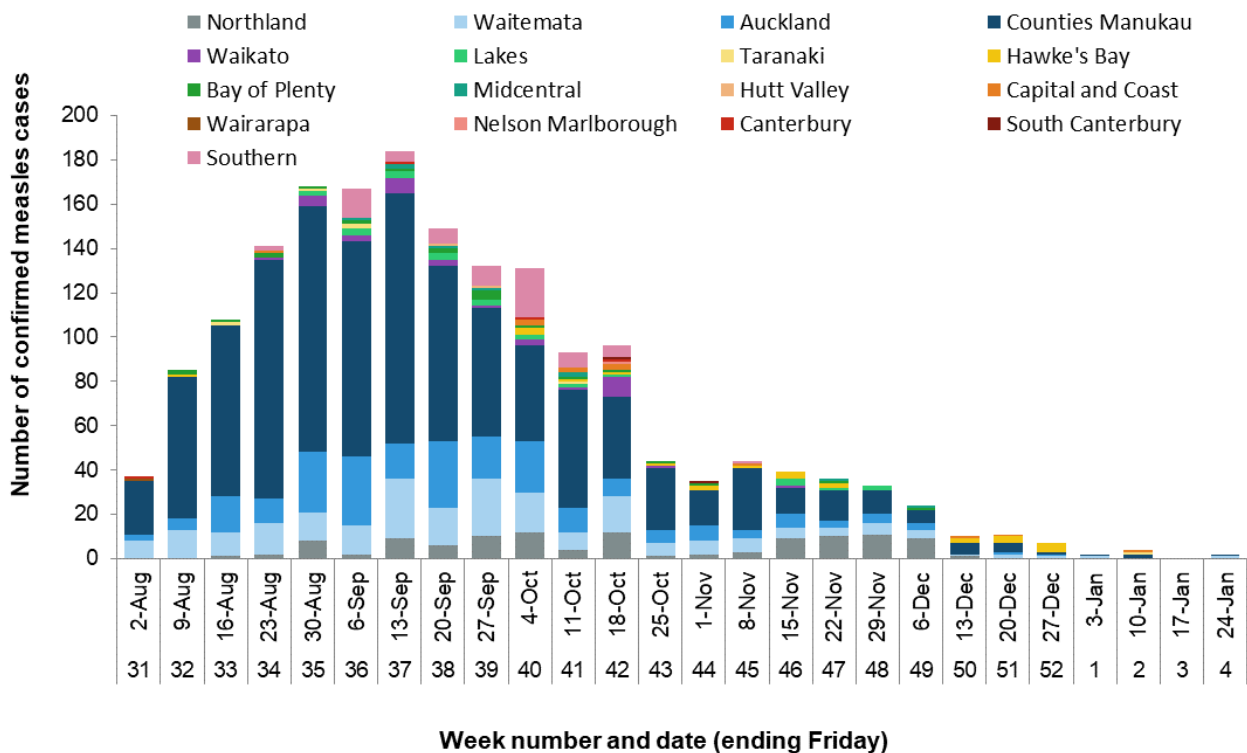
**Figure 1. Number of confirmed measles notifications by week, 1 January 2019–24 January 2020**



**Table 1: Number of confirmed measles cases for the last two surveillance weeks and cumulative number of cases since January 2019 by district health board**

District health board	Surveillance Week 3	Surveillance Week 4	1 January 2019 to date		
			Cumulative total	Number hospitalised	Percent hospitalised
Northland	0	0	133	23	17.3
Waitemata	0	1	306	129	42.2
Auckland	0	0	273	108	39.6
Counties Manukau	0	1	1157	435	37.6
Waikato	0	0	51	12	23.5
Lakes	0	0	30	6	20.0
Bay of Plenty	0	0	45	19	42.2
Tairāwhiti	0	0	0	0	0.0
Taranaki	0	0	8	3	37.5
Hawke's Bay	0	0	26	8	30.8
Whanganui	0	0	0	0	0.0
MidCentral	0	0	10	0	0.0
Hutt Valley	0	0	9	1	11.1
Capital and Coast	0	0	24	7	29.2
Wairarapa	0	0	1	0	0.0
Nelson Marlborough	0	0	1	0	0.0
West Coast	0	0	0	0	0.0
Canterbury	0	0	44	17	38.6
South Canterbury	0	0	2	0	0.0
Southern	0	0	73	6	8.2
<b>Total</b>	<b>0</b>	<b>2</b>	<b>2193</b>	<b>774</b>	<b>35.3</b>

**Figure 2: Number of confirmed cases by week and DHB for the last six months**



**Table 2. Number of confirmed measles cases for Week 4/2020 and cumulative number of cases and hospitalisations since January 2019 by age group**

Age group	Surveillance Week 4	1 January 2019 to date		
		Cumulative total	Number hospitalised	Percent hospitalised
<12 months	0	275	177	64.4
12 months-2 years	1	248	130	52.4
3-4 years	0	57	19	33.3
5-9 years	0	85	10	11.8
10-19 years	0	458	117	25.5
20-29 years	0	712	215	30.2
30-49 years	0	325	88	27.1
50+	1	33	18	54.5
<b>Total</b>	<b>2</b>	<b>2193</b>	<b>774</b>	<b>35.3</b>

**Table 3. Number of confirmed measles cases for Week 4/2020 and cumulative number of cases and hospitalisations since January 2019 by ethnic group**

Ethnic group (prioritised)	Surveillance Week 4	1 January 2019 to date		
		Cumulative total	Number hospitalised	Percent hospitalised
Māori	1	526	222	42.2
Pacific peoples	1	897	355	39.6
Asian	0	158	45	28.5
MELAA <sup>1</sup>	0	31	11	35.5
European or Other	0	564	141	25.0
Unknown	0	17	0	0.0
<b>Total</b>	<b>2</b>	<b>2193</b>	<b>774</b>	<b>35.3</b>

<sup>1</sup> Middle Eastern/Latin American/African

**Table 4. Immunisation status\* of confirmed cases of measles,  
1 January 2019–24 January 2020**

Age group	Not vaccinated <sup>1</sup>	Partially vaccinated <sup>2</sup>	Fully vaccinated <sup>3</sup>	Unknown	Total number of cases
<12 months	274	0	0	1	275
12 months-2 years	231	0	16	1	248
3-4 years	51	0	5	1	57
5-9 years	76	3	5	1	85
10-19 years	347	23	55	33	458
20-29 years	494	32	67	119	712
30-49 years	197	26	11	91	325
50+	21	1	0	11	33
<b>Total</b>	<b>1691</b>	<b>85</b>	<b>159</b>	<b>258</b>	<b>2193</b>

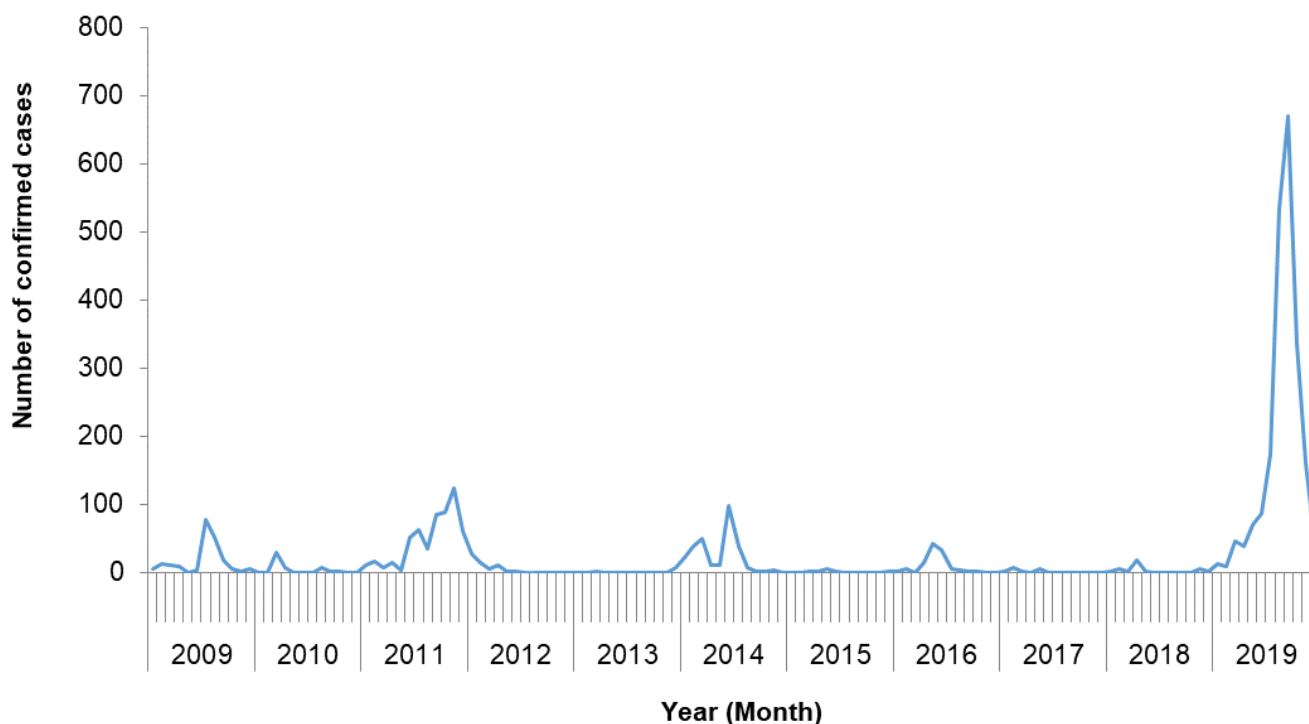
\***Note:** Immunisation status in EpiSurv is based on either documentation or patient/caregiver recall.

<sup>1</sup>**Not vaccinated:** A person who was reported not to have received any doses of vaccine, or a person who was reported to have received one dose of vaccine within 14 days of the onset of disease. (Includes 113 cases who received one dose of vaccine in the 14 days prior to onset.)

<sup>2</sup>**Partially vaccinated:** A person aged over 4 years who was reported to have received one dose of vaccine.

<sup>3</sup>**Fully vaccinated:** A child aged between 12 months and 4 years who was reported to have received one dose of vaccine or a person aged over 4 years who was reported to have received two doses of vaccine.

**Figure 3. Number of measles notifications by month reported,  
January 2009 to December 2019**



## Case classification for measles notification in New Zealand

<b>Confirmed</b>	A clinically compatible illness that is laboratory-confirmed or epidemiologically-linked to a confirmed case.
<b>Probable</b>	A clinically compatible illness.
<b>Under investigation</b>	A case that has been notified, but information is not yet available to classify it as probable or confirmed.

**Note:** Any notifications that are found to be due to a vaccine strain are considered not to be measles cases and are removed from the analysis.

### Clinical description

An illness characterised by **all** of the following:

1. generalised maculopapular rash, starting on the head and neck
2. fever (at least 38°C if measured) present at the time of rash onset
3. cough or coryza or conjunctivitis or Koplik's spots present at the time of rash onset.

### Laboratory test for diagnosis

If the case **received a vaccine** containing the measles virus in the 6 weeks prior to symptom onset then **laboratory confirmation requires:**

- evidence of infection with a wild-type virus strain obtained through genetic characterisation.

If the case **did not receive a vaccine** containing the measles virus in the 6 weeks prior to symptom onset, then **laboratory confirmation requires** at least one of the following:

- detection of IgM antibody specific to the virus
- IgG seroconversion or a significant rise (four-fold or greater) in antibody level for the virus between paired sera tested in parallel where the convalescent serum was collected 10 to 14 days after the acute serum
- isolation of measles virus by culture
- detection of measles virus nucleic acid.

See: <https://www.health.govt.nz/our-work/diseases-and-conditions/communicable-disease-control-manual/measles>