

# INFLUENZA SURVEILLANCE SUMMARY-AUGUST 2009

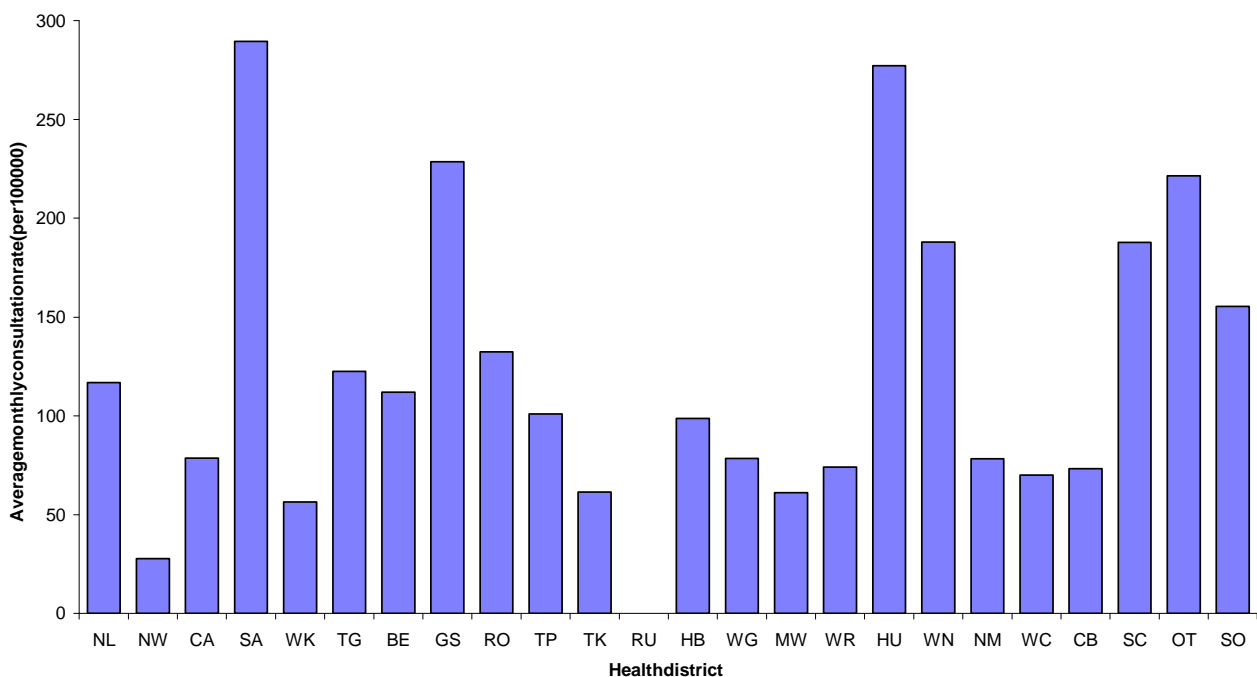
During August (weeks 31–35), 2865 consultations for influenza-like illness were reported from 88 general practices (on average) in all of the 24 health districts. The average weekly consultation rate for August was 137.1 per 100 000 patient population.

South Auckland had the highest consultation rate (289.3 per 100 000), followed by Hutt (277.1 per 100 000), and Gisborne (228.5 per 100 000).

Figure 1 compares the average weekly consultation rates for influenza-like illness for each health district during August. South Auckland had the highest consultation rate (289.3 per 100 000), followed by Hutt (277.1 per 100 000), and Gisborne (228.5 per 100 000).

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**Figure 1: Average weekly consultation rates for influenza-like illness by health district, August 2009**



A total of 578 swabs were received by the regional virology laboratories. Of these, 85 influenza viruses were identified: Pandemic influenza (H1N1)09 (33), A/California/7/2009 (H1N1)v<sup>1</sup> (28), influenza A (not sub-typed) (17), seasonal influenza A H3N2 virus (3), B (not typed) (2), A/Brisbane/59/2007 (H1N1)-like (1), and seasonal influenza A H1N1 virus (1). The distribution by health district is shown in Table 1.

Of these, 85 influenza viruses were identified: Pandemic influenza (H1N1)09 (33), A/California/7/2009 (H1N1)v<sup>1</sup> (28), influenza A (not sub-typed) (17), seasonal influenza A H3N2 virus (3), B (not typed) (2), A/Brisbane/59/2007 (H1N1)-like (1), and seasonal influenza A H1N1 virus (1). The distribution by health district is shown in Table 1.

<sup>1</sup>A/California/7/2009 (H1N1)v-like strain is a pandemic (H1N1)09 PCR positive sample that was further antigenically typed by hemagglutination inhibition assay using ferret antisera against A/California/7/2009 (H1N1)v.

Representative pandemic influenza virus. Representative pandemic influenza virus. Representative pandemic influenza virus.

**Table1:Influenzavirusesfromsentinelsurveillan ceinAugustbyHealthDistrict**

Strain	CA	SA	GS	TP	TK	HB	WG	MW	WR	WN	CB	SC	OT	SO	Total
A(notsub-typed)	3	1	0	1	0	0	0	0	1	1	0	6	4	0	17
A/Brisbane/59/2007(H1N1)-like	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
A/California/7/2009(H1N1)v	2	2	1	1	1	0	3	0	2	0	0	2	11	3	28
B(nottyped)	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2
PandemicA(H1N1)	0	0	3	0	2	1	2	1	2	0	11	4	6	1	33
SeasonalA(H1N1)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
SeasonalA(H3N2)	0	0	0	0	1	0	0	0	0	0	2	0	0	0	3
<b>Total</b>	<b>5</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>4</b>	<b>1</b>	<b>5</b>	<b>1</b>	<b>5</b>	<b>1</b>	<b>13</b>	<b>14</b>	<b>21</b>	<b>5</b>	<b>85</b>

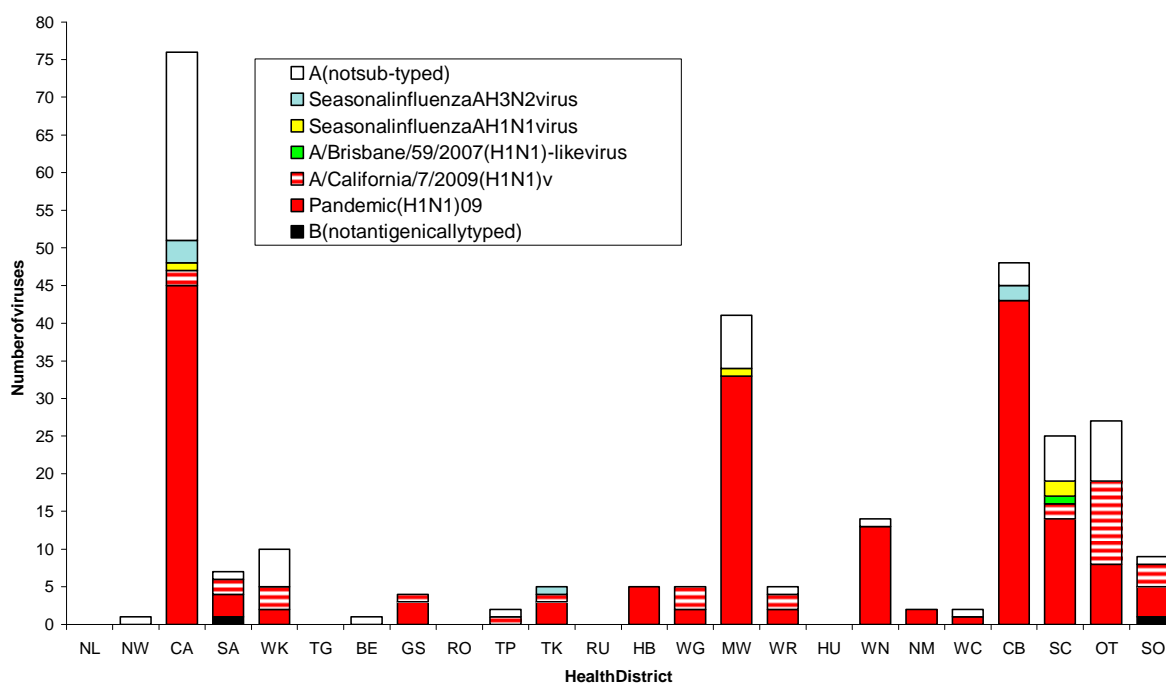
In addition, 204 influenza viruses were reported from the laboratory-based (non-sentinel) surveillance: Pandemic influenza (H1N1) 09 (150), influenza A (notsub-typed) (45), A/California/7/2009 (H1N1)v (3), seasonal influenza A H1N1 virus (3), and seasonal influenza A H3N2 virus (3). The distribution by health district is shown in Table 2.

**Table2:Influenzavirusesfromnon-sentinelsurvei llanceinAugustbyHealthDistrict**

Strain	NW	CA	SA	WK	BE	TK	HB	MW	WN	NM	WC	CB	SC	OT	SO	Total
A(notsub-typed)	1	22	0	5	1	0	0	7	0	0	1	3	0	4	1	45
A/California/7/2009(H1N1)v	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
PandemicA(H1N1)	0	45	3	2	0	1	4	32	13	2	1	32	10	2	3	150
SeasonalA(H1N1)	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	3
SeasonalA(H3N2)	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
<b>Total</b>	<b>1</b>	<b>71</b>	<b>3</b>	<b>10</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>40</b>	<b>13</b>	<b>2</b>	<b>2</b>	<b>35</b>	<b>11</b>	<b>6</b>	<b>4</b>	<b>204</b>

Figure 2 shows the cumulative total of influenza viruses confirmed (sentinel and laboratory-based surveillance) for August 2009<sup>2</sup>. A total of 289 viruses were identified: Pandemic influenza (H1N1) 09 (183), influenza A (notsub-typed) (62), A/California/7/2009 (H1N1)v (31), seasonal influenza A H3N2 virus (6), seasonal influenza A H1N1 virus (4), B (nottyped) (2), and A/Brisbane/59/2007 (H1N1)-like (1).

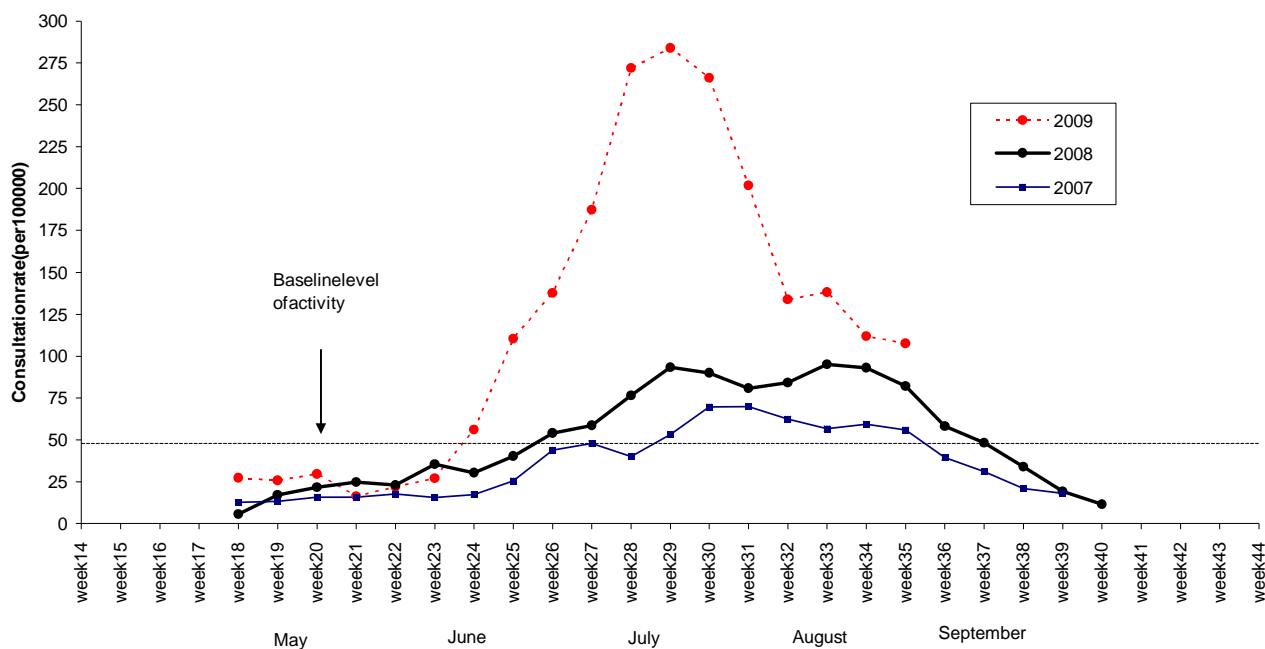
**Figure 2: Cumulative influenza viruses from sentinel and non-sentinel surveillance by health district, August 2009**



<sup>2</sup>Data based on dates specimen taken rather than week reported.

Figure 3 shows the national weekly consultation rates to the end of week 35, August 2009 and rates in 2008 and 2007.

**Figure 3: Weekly consultation rates for influenza-like illness in New Zealand, 2007, 2008 and 2009**



Compiled by:  
 Liza Lopez  
 Population and Environmental Health  
 ESR Kenepuru Science Centre  
 PO Box 50348, PORIRUA  
 Tel: 049140647 Fax: 049786690 Email: liza.lopez@esr.cri.nz

Dr. Sue Huang  
 WHO National Influenza Centre  
 ESR Wallaceville Science Centre  
 PO Box 40158, Upper Hutt