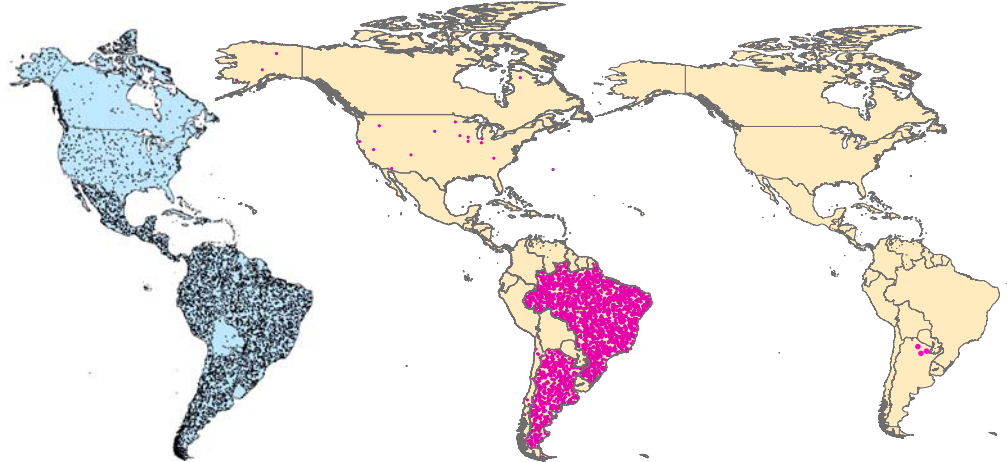




**Impact of Rubella Elimination Strategies  
The Americas, 1998–2009\***

The impact of the rubella elimination strategies in the Americas has been considerable. In 2009, endemic virus circulation is limited to only one country, which is implementing high-quality interventions to ensure the interruption of rubella virus transmission and completion of the Regional elimination goal.



Rubella cases: 135,947  
The Americas, 1998

Rubella cases: 3,809  
The Americas, 2008

Rubella cases: 3  
The Americas, 2009

1 dot= 1 case

\* Includes rubella and measles cases reported to PAHO as of Epidemiological Week 10/2009.

Source: Country reports to FCH/IM.

**Table No.1**  
**Classification of Suspect Measles, Rubella, and Congenital Rubella Syndrome (CRS) Cases for the Period of Weeks 01-10, 2009**

| Subregion and Country |     | Suspect Cases 2009 | Measles Confirmed 2009 |      |                | Year/Week Last Confir. Measles Case | Rubella Confirmed 2009 |      |                | Year/Week Last Confir. Rubella Case | Diagnosis of Dis-carded Cases 2009 |       | Congenital Ru-bella Syndrome |       | CRI * |
|-----------------------|-----|--------------------|------------------------|------|----------------|-------------------------------------|------------------------|------|----------------|-------------------------------------|------------------------------------|-------|------------------------------|-------|-------|
|                       |     |                    | Clinic.                | Lab. | Total          |                                     | Clinic.                | Lab. | Total          |                                     | Dengue                             | Other | Suspect                      | Conf. |       |
| AND                   | BOL | 25                 | 0                      | 0    | 0              | 00/40                               | 0                      | 0    | 0              | 06/03                               | 0                                  | 22    | ...                          | ...   |       |
|                       | COL | 73                 | 0                      | 0    | 0              | 02/39                               | 0                      | 0    | 0              | 07/31                               | 0                                  | 63    | 16                           | ...   |       |
|                       | ECU | 101                | 0                      | 0    | 0              | 08/21                               | 0                      | 0    | 0              | 04/45                               | 13                                 | 87    | 0                            | 0     |       |
|                       | PER | 146                | 0                      | 0    | 0              | 08/18                               | 0                      | 0    | 0              | 06/45                               | 1                                  | 112   | ...                          | ...   |       |
| BRA                   | VEN | 30                 | 0                      | 0    | 0              | 07/06                               | 0                      | 0    | 0              | 07/34                               | 4                                  | 19    | ...                          | ...   |       |
|                       | BRA | 1127               | 0                      | 0    | 0              | 06/48                               | 0                      | 0    | 0              | 08/53                               | 1                                  | 619   | 0                            | 0     |       |
|                       | CAP | 1                  | 0                      | 0    | 0              | 05/22                               | 0                      | 0    | 0              | 01/42                               | 0                                  | 0     | ...                          | ...   |       |
|                       | ELS | 33                 | 0                      | 0    | 0              | 01/19                               | 0                      | 0    | 0              | 06/30                               | 0                                  | 33    | ...                          | ...   |       |
|                       | GUT | 38                 | 0                      | 0    | 0              | 98/05                               | 0                      | 0    | 0              | 06/30                               | 0                                  | 33    | 11                           | 0     |       |
|                       | HON | 16                 | 0                      | 0    | 0              | 97/29                               | 0                      | 0    | 0              | 04/11                               | 1                                  | 15    | 4                            | 0     |       |
|                       | NIC | 32                 | 0                      | 0    | 0              | 94/14                               | 0                      | 0    | 0              | 04/19                               | 0                                  | 32    | 0                            | 0     |       |
|                       | PAN | 14                 | 0                      | 0    | 0              | 95/49                               | 0                      | 0    | 0              | 02/48                               | 0                                  | 14    | 0                            | 0     |       |
|                       | CAR | 94                 | 0                      | 0    | 0              | 08/26                               | 0                      | 0    | 0              | 08/18                               | 0                                  | 30    | 0                            | 0     |       |
|                       | LAC | 38                 | 0                      | 0    | 0              | 93/27                               | 0                      | 0    | 0              | 04/06                               | 0                                  | 25    | 0                            | 0     |       |
| MEX                   | DOR | 21                 | 0                      | 0    | 0              | 01/23                               | 0                      | 0    | 0              | 06/44                               | 0                                  | 5     | ...                          | ...   |       |
|                       | FGU | 4                  | 0                      | 0    | 0              | ...                                 | 0                      | 0    | 0              | ...                                 | 4                                  | 0     | ...                          | ...   |       |
|                       | GUA | ...                | ...                    | ...  | ...            | ...                                 | ...                    | ...  | ...            | ...                                 | ...                                | ...   | ...                          | ...   |       |
|                       | HAI | 2                  | 0                      | 0    | 0              | 01/39                               | 0                      | 0    | 0              | 06/47                               | 0                                  | 0     | 0                            | 0     |       |
|                       | MAR | ...                | ...                    | ...  | ...            | ...                                 | ...                    | ...  | ...            | ...                                 | ...                                | ...   | ...                          | ...   |       |
|                       | PUR | ...                | ...                    | ...  | ...            | ...                                 | ...                    | ...  | ...            | ...                                 | ...                                | ...   | ...                          | ...   |       |
| NOA                   | MEX | 452                | 0                      | 0    | 0              | 06/49                               | 0                      | 0    | 0              | 08/20                               | 0                                  | 150   | 0                            | 0     |       |
|                       | CAN | ...                | 0                      | 6    | 6 <sup>a</sup> | 09/07                               | 0                      | 0    | 0              | 07/15                               | ...                                | ...   | ...                          | ...   |       |
|                       | USA | ...                | 0                      | 9    | 9 <sup>a</sup> | 09/08                               | 0                      | 0    | 0              | 08/47                               | ...                                | ...   | ...                          | ...   |       |
| SOC                   | ARG | 64                 | 0                      | 2    | 2 <sup>a</sup> | 09/02                               | 0                      | 3    | 3 <sup>a</sup> | 09/04                               | 0                                  | 55    | 4                            | 2     |       |
|                       | CHI | 27                 | 0                      | 1    | 1 <sup>a</sup> | 09/07                               | 0                      | 0    | 0              | 08/30                               | 0                                  | 13    | 18                           | 0     |       |
|                       | PAR | 56                 | 0                      | 0    | 0              | 98/44                               | 0                      | 0    | 0              | 05/21                               | 1                                  | 55    | 1                            | 0     |       |
|                       | URU | 1                  | 0                      | 0    | 0              | 99/08                               | 0                      | 0    | 0              | 01/37                               | 0                                  | 1     | ...                          | ...   |       |
| TOTAL                 |     | 2395               | 0                      | 18   | 18             | -                                   | 0                      | 3    | 3              | -                                   | 25                                 | 1383  | 54                           | 2     |       |

... No report received; \* Congenital rubella infection; (a) See Table 2 for infection source.



# Measles / Rubella Surveillance

**Table No.2**  
Infection Source of Measles and Rubella Confirmed Cases for the Period of Weeks 01-10, 2009

| Subregion and Country |       | Measles |    |   | Rubella |    |   |    |   |
|-----------------------|-------|---------|----|---|---------|----|---|----|---|
|                       |       | I       | IR | U | I       | IR | U | IN |   |
| AND                   | BOL   |         |    |   |         |    |   |    |   |
|                       | COL   |         |    |   |         |    |   |    |   |
|                       | ECU   |         |    |   |         |    |   |    |   |
|                       | PER   |         |    |   |         |    |   |    |   |
|                       | VEN   |         |    |   |         |    |   |    |   |
| BRA                   | BRA   |         |    |   |         |    |   |    |   |
|                       | CAP   |         |    |   |         |    |   |    |   |
|                       | COR   |         |    |   |         |    |   |    |   |
|                       | ELS   |         |    |   |         |    |   |    |   |
|                       | GUT   |         |    |   |         |    |   |    |   |
| HON                   | HON   |         |    |   |         |    |   |    |   |
|                       | NIC   |         |    |   |         |    |   |    |   |
|                       | PAN   |         |    |   |         |    |   |    |   |
|                       | CAR   | CAR     |    |   |         |    |   |    |   |
|                       |       | LAC     |    |   |         |    |   |    |   |
| CUB                   |       |         |    |   |         |    |   |    |   |
| DOR                   |       |         |    |   |         |    |   |    |   |
| FGU                   |       |         |    |   |         |    |   |    |   |
| GUA                   | GUA   |         |    |   |         |    |   |    |   |
|                       | HAI   |         |    |   |         |    |   |    |   |
|                       | MAR   |         |    |   |         |    |   |    |   |
|                       | PUR   |         |    |   |         |    |   |    |   |
|                       | MEX   | MEX     |    |   |         |    |   |    |   |
| NOA                   |       | 1       | 5  |   |         |    |   |    |   |
| CAN                   |       |         |    |   |         |    |   |    |   |
| USA                   |       | 7       | 2  |   |         |    |   |    |   |
| SOC                   |       | ARG     |    | 2 |         |    |   |    | 3 |
|                       | CHI   | 1       |    |   |         |    |   |    |   |
|                       | PAR   |         |    |   |         |    |   |    |   |
|                       | URU   |         |    |   |         |    |   |    |   |
|                       | TOTAL | 9       | 9  |   |         |    |   | 3  |   |

**Table No.3**  
Measles/Rubella Suspect Cases Under Investigation for the Period of Weeks 01-10, 2009

| Country | Pending Cases 2008 | Cumulative 2009 | Week of Rash Onset |     |     |     |     |     |   | Unkn. |
|---------|--------------------|-----------------|--------------------|-----|-----|-----|-----|-----|---|-------|
|         |                    |                 | 1-5                | 6   | 7   | 8   | 9   | 10  |   |       |
| BOL     | 1                  | 3               | 0                  | 1   | 1   | 1   | ... | ... |   |       |
| COL     | 94                 | 10              | 3                  | 1   | 3   | 2   | 1   | 0   |   |       |
| ECU     | 0                  | 1               | 0                  | 1   | 0   | 0   | 0   | 0   |   |       |
| PER     | 15                 | 33              | 6                  | 3   | 3   | 5   | 5   | 11  |   |       |
| VEN     | 56                 | 7               | 7                  | 0   | 0   | ... | ... | ... |   |       |
| BRA     | 1334               | 507             | 257                | 78  | 59  | 66  | 47  | ... |   |       |
| COR     | 23                 | 1               | ...                | ... | ... | ... | ... | ... | 1 |       |
| ELS     | 0                  | 0               | 0                  | 0   | 0   | 0   | ... | ... |   |       |
| GUT     | 1                  | 5               | 1                  | 0   | 0   | 0   | 4   | 0   |   |       |
| HON     | 0                  | 0               | 0                  | 0   | 0   | 0   | 0   | 0   |   |       |
| NIC     | 3                  | 0               | 0                  | 0   | 0   | 0   | 0   | 0   |   |       |
| PAN     | 1                  | 0               | 0                  | 0   | 0   | 0   | 0   | 0   |   |       |
| CAR     | 5                  | 64              | 15                 | 7   | 12  | 12  | 16  | 2   |   |       |
| CUB     | 0                  | 13              | 0                  | 0   | 0   | 0   | 0   | 13  |   |       |
| DOR     | 11                 | 16              | 13                 | 2   | 0   | 1   | 0   | 0   |   |       |
| FGU     | 0                  | 0               | 0                  | 0   | 0   | 0   | 0   | 0   |   |       |
| GUA     | ...                | ...             | ...                | ... | ... | ... | ... | ... |   |       |
| HAI     | 0                  | 2               | 2                  | 0   | 0   | 0   | 0   | 0   |   |       |
| MAR     | ...                | ...             | ...                | ... | ... | ... | ... | ... |   |       |
| PUR     | ...                | ...             | ...                | ... | ... | ... | ... | ... |   |       |
| MEX     | 698                | 301             | 155                | 27  | 51  | 36  | 52  | ... |   |       |
| CAN     | ...                | ...             | ...                | ... | ... | ... | ... | ... |   |       |
| USA     | ...                | ...             | ...                | ... | ... | ... | ... | ... |   |       |
| ARG     | ...                | 4               | 1                  | 0   | 2   | 0   | 1   | 0   |   |       |
| CHI     | 2                  | 13              | 7                  | 1   | 3   | 2   | 0   | 0   |   |       |
| PAR     | 0                  | 0               | 0                  | 0   | 0   | 0   | 0   | 0   |   |       |
| URU     | 0                  | 0               | 0                  | 0   | 0   | 0   | 0   | 0   |   |       |
| TOTAL   | 2244               | 980             | 467                | 121 | 134 | 125 | 126 | 26  | 1 |       |

I: Imported; IR: Import-related; U: Unknown; IN: Indigenous

... No report received

**Table No.4**  
Indicators of Integrated Measles/Rubella Surveillance for the Period of Weeks 01-10, 2009

| Sub-region and Country |                   | % Sites Reporting Weekly | % Cases with Adequate Investigation | % Cases with Adequate Sample | % Lab Received ≤5 days | % Lab Result ≤4 days | % Cases Discarded by Lab | Chains of Transmission With Representative Samples for Viral Isolation |         |  |
|------------------------|-------------------|--------------------------|-------------------------------------|------------------------------|------------------------|----------------------|--------------------------|--|---------|--|
|                        |                   |                          |                                     |                              |                        |                      |                          | Measles  | Rubella |  |
| AND                    | BOL               | ...                      | 96                                  | 100                          | 86                     | 86                   | 100                      |  |         |  |
|                        | COL               | 64                       | 53                                  | 97                           | 77                     | 85                   | 98                       |  |         |  |
|                        | ECU               | 83                       | 68                                  | 98                           | 96                     | 90                   | 97                       |  |         |  |
|                        | PER               | 96                       | 95                                  | 99                           | 63                     | 68                   | 85                       |  |         |  |
|                        | VEN               | ...                      | 58                                  | 83                           | 79                     | 75                   | 96                       |  |         |  |
| BRA                    | BRA               | 89                       | ...                                 | ...                          | ...                    | ...                  | 99                       |  |         |  |
|                        | CAP               | ...                      | 54                                  | 0                            | 0                      | 0                    | ...                      |  |         |  |
|                        | COR               | ...                      | 54                                  | 0                            | 0                      | 0                    | ...                      |  |         |  |
|                        | ELS               | 85                       | 94                                  | 100                          | 97                     | 88                   | 97                       |  |         |  |
|                        | GUT               | ...                      | 13                                  | 96                           | 100                    | 75                   | 100                      |  |         |  |
| HON                    | HON               | 94                       | 100                                 | 100                          | 88                     | 94                   | 100                      |  |         |  |
|                        | NIC               | 100                      | 74                                  | 97                           | 100                    | 100                  | 100                      |  |         |  |
|                        | PAN               | 82                       | 93                                  | 93                           | 79                     | 79                   | 100                      |  |         |  |
|                        | CAR               | CAR                      | 99                                  | 37                           | 97                     | 38                   | 100                      | 100  |         |  |
|                        |                   | LAC                      | CUB                                 | 100                          | 100                    | 100                  | 95                       | 100  | 66      |  |
| DOR                    |                   | 76                       | 62                                  | 95                           | 62                     | 33                   | 100                      |  |         |  |
| FGU                    |                   | ...                      | ...                                 | ...                          | ...                    | ...                  | ...                      |  |         |  |
| GUA                    |                   | ...                      | ...                                 | ...                          | ...                    | ...                  | ...                      |  |         |  |
| HAI                    | HAI               | 100                      | 0                                   | 100                          | 50                     | 50                   | ...                      |  |         |  |
|                        | MAR               | ...                      | ...                                 | ...                          | ...                    | ...                  | ...                      |  |         |  |
|                        | PUR               | ...                      | ...                                 | ...                          | ...                    | ...                  | ...                      |  |         |  |
|                        | MEX               | MEX                      | 91                                  | 98                           | 99                     | 58                   | 96                       | 100  |         |  |
|                        |                   | NOA                      | ...                                 | ...                          | ...                    | ...                  | ...                      | ...  |         |  |
| CAN                    |                   | ...                      | ...                                 | ...                          | ...                    | ...                  | ...                      |  |         |  |
| USA                    |                   | ...                      | ...                                 | ...                          | ...                    | ...                  | ...                      |  |         |  |
| SOC                    |                   | ARG                      | 77                                  | 76                           | 100                    | 89                   | 92                       | 100  |         |  |
|                        | CHI               | 99                       | 0                                   | 81                           | 68                     | 95                   | 85                       |  |         |  |
|                        | PAR               | 87                       | 38                                  | 100                          | 93                     | 100                  | 100                      |  |         |  |
|                        | URU               | 73                       | 100                                 | 100                          | 100                    | 0                    | 100                      |  |         |  |
|                        | Total and Average | 88                       | 80                                  | 98                           | 71                     | 89                   | 98                       |  |         |  |

... No report received.