



Environmental Health Indicators for New Zealand

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INTERNATIONAL NOTIFIABLE DISEASE OUTBREAKS BY COUNTRY

Biosecurity disease threats can enter New Zealand in a number of ways: from returning residents who were exposed and developed a disease while overseas; from people carrying disease who visit or migrate to New Zealand; and from organisms that enter via host/vector species or as result of trade imports (on or in goods coming into New Zealand) (Eberhart-Phillips 1999).

There are a number of emerging and resurgent zoonotic diseases that are currently causing international concern. These include Lyme disease, Ebola and Marburg haemorrhagic fevers, Nipah virus/Hendra disease, West Nile fever, dengue fever, malaria, Chikungunya fever and avian influenza (A/H5N1) (McMichael 2005; Moore 2007).

The data are from the WHO, principally the World Health Report and the Epidemic and Pandemic Alert and Response (EPR) programme (World Health Organization 2011). All notifiable outbreaks reported on the WHO website are shown. To show the possible threats from a wide variety of diseases, the outbreaks include vector-borne disease as well as other infectious diseases.

Table 1:
INTERNATIONAL NOTIFIABLE DISEASE OUTBREAKS BY COUNTRY, 2008-2011.

Disease	2008	2009	2010	2011
Avian Influenza (A/H5N1)	Egypt, Indonesia, Viet Nam, China, Pakistan, Bangladesh, Cambodia	Viet Nam, China, Egypt, Indonesia, Cambodia	Egypt, Indonesia, Viet Nam, Cambodia, China, Hong Kong Special Administrative Region (SAR)	Egypt, Cambodia, Indonesia, Bangladesh
Rift Valley Fever	Sudan, Madagascar	-	South Africa	-
Yellow Fever	Brazil, Paraguay, Liberia, Central African Republic, Côte d'Ivoire, Guinea, Burkina Faso	Sierra Leone, Guinea, Republic of Congo, Liberia, Cameroon, Central Africa Republic	Cote D'Ivoire, Guinea, Cameroon, Democratic Republic of Congo, Senegal	Uganda, Cote D'Ivoire, Sierra Leone
Ebola haemorrhagic fever	Uganda, Democratic Republic of Congo	Democratic Republic of Congo, Philippines	-	Uganda
Meningococcal disease	13 countries of the African Meningitis belt	Nigeria, countries of the African Meningitis Belt, Chad	Chad	Chad
Dengue haemorrhagic fever	Brazil	Cape Verde	Pakistan	-
Cholera	Viet Nam, Iraq, Guinea Bissau, Zimbabwe	Zimbabwe	Central Africa, Pakistan, Haiti	Democratic Republic of Congo, Republic of Congo
Enterovirus	China	-	-	-
Poliomyelitis	Nigeria & West/Central Africa	Nigeria, West Africa, Sudan	Tajikistan, Angola, Democratic Republic of Congo, Central Asia, North Caucasus Federal Region of the Russian Federation	Cote d'Ivoire, Chad, Pakistan, China
Lead Intoxication	Senegal	-	Nigeria (Zamfara State)	-
Marburg Haemorrhagic Fever	Uganda, Netherlands	-	-	-
Melamine-contaminated powdered infant formula	China	-	-	-
New virus from Arenaviridae family	South Africa, Zambia	-	-	-
Swine Influenza / Influenza (A/H1N1)	-	United States, Mexico, Ukraine	-	-
Pandemic(H1N1)	-	over 208 countries	over 208 countries	-
Plague	-	China	Peru	-
Crimean-Congo haemorrhagic fever (CCHF)	-	-	Pakistan	-
Measles	-	-	-	Europe, Regions of the Americas, Africa
E. coli (EHEC) - haemolytic uraemic syndrome	-	-	-	Germany
West Nile Virus Infection (WNV)	-	-	-	Europe

Source: World Health Organization (2011)

INTERNATIONAL NOTIFIABLE DISEASE OUTBREAKS BY COUNTRY Current situation

Table 1 shows that the largest number of countries experienced the H1N1 pandemic than other outbreaks, with over 208 countries being affected in 2009 and 2010.

References

- Eberhart-Phillips J. (1999). *Plagues on our doorstep The threat of infectious disease in New Zealand*. Auckland: Tandem Press.
- McMichael AJ. (2005). Environment and social influences on emerging infectious disease: past, present, and future. In McLean A, May R, Pattison J et al (eds). *SARS: A Case Study in Emerging Infections*. Oxford: Oxford University Press:4-15.
- Moore P. (2007). *The Essential Handbook of Epidemics, Viruses and Plagues*. Camberwell, Vic: Penguin Books.
- World Health Organization (2011) – *Global Alert and Response (GAR)*