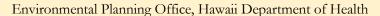
Dengue Fever (DF)

Prepared By





Overview: ¹		
Vectors and Pathways:	Mosquito bites by Aedes aegypti or Aedes albopictus	
Symptoms:	Severe headache, pain in eyes, joints, muscles/bones, rash	
Risks:	Hemorrhagic manifestations, circulatory failure or shock,	
	internal bleeding, and in the worst cases death	
Causing Organisms:	Four viruses, serotypes dengue 1-4	
When symptoms begin:	en symptoms begin: 4-7 days after bite	
How long symptoms last:	3-10 days	
When mosquito acquires virus: 5-day period when human host carries large amounts of		
	in their blood, preceding symptoms	
How long virus must incubate: 8-12 days inside mosquito (before becoming transmissible)		



Figure 1. *Aedes aegypti* was eradicated from the Hawaiian Islands in 1949, but was rediscovered in 2012 at Honolulu Airport.



Figure 2. Plants that collect water in their leaves like these bromeliads provide ideal mosquito breeding habitat.

Table 1. Estimated burden of dengue in millions in 2010, by continent or region.²

Continent	Apparent	Inapparent
Africa	15.7	48.4
Asia	66.8	204.4
Americas	13.3	40.5
Oceania	0.18	0.55
Total	96	293.9

Citations:

¹ Dengue Homepage. Centers for Disease Control and Prevention. Jul 13 2015. http://www.cdc.gov/dengue/epidemiology/index.html

² Bhatt, S., Gething, P. W., Brady, O. J., Messina, J. P., Farlow, A. W., Moyes, C. L., ... Hay, S. I. (2013). The global distribution and burden of dengue. *Nature*, 496(7446), 504–507. doi:10.1038/nature12060