Table 18.19-- ROADWAY CONGESTION FOR THE HONOLULU URBANIZED AREA: 2004 TO 2007

Subject	2004	2005	2006	2007
Population (1,000) Urban area (square miles) Population density (persons/square mile) Peak travelers (1,000)	700 140 5,000 378	705 140 5,036 383	705 140 5,036 386	705 140 5,036 388
Daily vehicle-miles of travel (1,000) Freeway Arterial streets	6,000 3,200	6,015 3,250	6,080 3,200	6,275 3,170
Cost components Value of time (\$/hour) Commercial cost (\$/hour) Fuel cost (\$/gallon)	14.10 1/ 86.24 2.38	1/ 14.58 1/ 94.06 2.63	15.06 98.77 3.09	15.47 102.12 3.41
Congested system (percent of lane-miles)	46	48	50	51
Number of daily rush hours 2/	6.8	6.8	7.0	7.2
Annual excess fuel consumed 3/ Total (1,000 gallons) Per peak traveler (gallons)	5,680 15	1/ 6,358 1/ 17	6,479 17	7,051 18
Annual delay (person-hours) 4/ Total (1,000) Per peak traveler 5/	1/ 8,495 22	1/ 9,550 1/ 25	9,393 24	10,076 26
Congestion cost 6/ Total (\$ million) Per peak traveler (\$)	1/ 147 1/ 388	1/ 173 1/ 451	179 464	199 514

^{1/} Revised from previous Databook.

Source: Texas Transportation Institute, 2009 Annual Urban Mobility Report

^{2/} Time when system might have congestion.

^{3/} Increased fuel consumption due to travel in congested conditions rather than free-flow conditions.

^{4/} Travel time above that needed to complete a trip at free-flow speeds (60 mph on freeways and 35 mph on arterials).

^{5/} Extra time required to travel in the peak period divided by the number of travelers who begin a trip during the peak period (6 to 9 a.m. and 4 to 7 p.m.).

^{6/} Value of travel delay for 2007 (estimated at \$15.47 per hour of person travel and \$102.12 per hour of truck time) and excess fuel consumption (estimated using state average cost per gallon).

http://mobility.tamu.edu/ums/congestion_data/west_map.stm accessed May 28, 2010.