

Table 8. Annual Specific Suspended Sediment Yield (sSSY) from steep, volcanic islands in the tropical Pacific.

Location	Watershed drainage area (km <sup>2</sup> )	Mean annual precipitation (mm)	sSSY range tons/km <sup>2</sup> /yr	Reference
Faga'alu UPPER	0.88		45-143	This study
Faga'alu TOTAL	1.78	2,380-6,350 (varies with elevation)	241-368	This study
Kawela, Molokai	13.5	500-3,000 (varies with elevation)	394	(Stock and Tribble, 2010)
Hanalei, Kauai	60.04	500 – 9,500 (varies with elevation)	545 ± 128	(Ferrier et al., 2013)
Hanalei, Kauai	48.4	2,000-11,000 (varies with elevation)	525	(Stock and Tribble, 2010)
Hanalei, Kauai	54.4	2,000-11,000 (varies with elevation)	140±55	(Calhoun and Fletcher, 1999)
St. John, USVI <sup>a</sup>	3.5	1,300-1,400	18	(Ramos-Scharrón and Macdonald, 2007)
St. John, USVI	2.3	1,300-1,400	24	(Nemeth and Nowlis, 2001)
St. John, USVI	6	1,300-1,400	36	(Nemeth and Nowlis, 2001)
Oahu	10.4	1,000-3,800 (varies with elevation)	330±130; 200±100 (varies with method)	(Hill et al., 1997)
Barro Colorado, Panama	0.033	2,623±458	100-200	(Zimmermann et al., 2012)
Fly River, PNG <sup>b</sup>	76,000	up to 10,000	1,000-1,500	(Milliman, 1995)
Purari River, PNG	35,000		3,000	"
<b>Milliman and Syvitski (1992) Model:</b>				
<b>sSSY = cA<sup>f</sup></b>				(Milliman and Syvitski, 1992)
<i>c, f = regression coeff. for region/max elevation</i>		<b>c</b>	<b>f</b>	<b>sSSY tons/km<sup>2</sup>/yr</b>
<b>Max elev &gt;3,000m</b>	Faga'alu	280	-0.54	UPPER = 296
	UPPER = 0.88			TOTAL = 205
	TOTAL = 1.78			
<b>Max elev 1000-3000m (Oceania)</b>		65	-0.46	UPPER = 68
				TOTAL = 50
<b>Max elev 500-1,000m</b>		12	-0.59	UPPER = 13
				TOTAL = 9