|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table 8. Annual Specific Suspended Sediment Yield (sSSY) from steep, volcanic islands in the tropical Pacific. | | | | | |
| **Location** | **Watershed drainage area (km2)** | **Mean annual precipitation (mm)** | | **sSSY range**  **tons/km2/yr** | **Reference** |
| **Faga’alu UPPER** | 0.88 |  | | 45-68 | This study |
| **Faga’alu TOTAL** | 1.78 | 2.380-6,350 (varies with elevation) | | 241-247 | 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, USVIa** | 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, PNGb** | 76,000 | up to 10,000 | | 1,000-1,500 | (Milliman, 1995) |
| **Purari River, PNG** | 35,000 |  | | 3,000 | “ |
|  | | | | | |
| **Milliman and Syvitski (1992) Model:**  **sSSY = cAf**  *c,f = regression coeff. for region/max elevation* | | **c** | f | **sSSY tons/km2/yr** | (Milliman and Syvitski, 1992) |
| **Max elev >3,000m** | Faga’alu  UPPER = 0.88  TOTAL = 1.78 | 280 | -0.54 | UPPER = 296  TOTAL = 205 | - |
| **Max elev 1000-3000m**  **(Oceania)** |  | 65 | -0.46 | UPPER = 68  TOTAL = 50 | - |
| **Max elev 500-1,000m** |  | 12 | -0.59 | UPPER = 13  TOTAL = 9 | - |