

TABLE 5
ESTIMATED GENERATION RATE OF FLOOD DEBRIS AND TDSR SITE AREA REQUIREMENTS BY SECTOR
Within 100 Year Flood Plain

DEBRIS SHED	Population Density (per sq km) (1)	Area within 100 yr. Flood Plain (sq km) (2)	No. of Households in Flood Zone	Average Debris (cubic yards per household	VEGETATION	COMM/BUS/I NDUST	Housing Type Factor	DEBRIS (CY)	SITE REQUIREMENTS in Acres (20 ft Stack Height/ 2 Cycles)
1 Primary Urban Center	3000	12.7503	12,016	20.45	1.1	1.3	0.6	210,834	5.42
Ewa	900	10.68	3,193	20.45	1.1	1.2	0.9	77,581	2.00
2 Central Oahu	300	0	0	20.45	1.3	1.2	1.0	0	0.00
North Shore	300	10.272	1,024	20.45	1.3	1.0	1.0	27,217	0.70
3 East Honolulu	300	9.352	804	20.45	1.3	1.2	0.6	15,390	0.40
Koolaupoko	300	12.3361	1,118	20.45	1.5	1.2	0.9	37,038	0.95
Koolauloa	200	15.537	1,032	20.45	1.5	1.0	1.0	31,668	0.81
4 Waianae	900	3.584	1,072	20.45	1.1	1.2	1.0	28,928	0.74

NOTES

- (1) Population density was estimated from The Atlas of Hawaii. University of Hawaii Press, 1983
- (2) Area within the 100-year Flood Plain compiled from 1:24,000 digital Flood Insurance Rate Maps.
- (3) Number of Households published in the Hawaii State Data Book 1997-8.
- (4) Average debris is estimated based on telephone interviews with house cleaning services, carpet dealers and realtors.
- (5) From the U.S. Army corps of Engineers Model for generation of Hurricane Debris, 1995
- (6) Based on building type and age: In multifamily structures that occupy more than one floor, only ground floor would be impacted: Housing Factor = 0.6. New buildings that conform to current building codes contain shear walls and the primary
- (7) INPUT FACTOR: For use in case of an actual event. Based on available event data and/or ground truthing, estimate the portion of the 100-year flood zone that is affected by the event within each sector.
- (8) Temporary Debris Storage and Reduction (TDSR) site area calculation assumes average debris pile stack height of 20-feet; 60% of land area used for debris storage; and site is cycled once during the recovery period.