

Table 5-34
Calculated Chemical Intake and Resulting Hazard Quotients for the Hawaiian Stilt, Waimanalo Stream
(Reference Area)

Bellows OU1 EE/CA, Bellows AFS, Hawaii

Chemical Group	Chemical	Sediment Concentration (mg/kg)	Fish Concentration (mg/kg)	Fish Fraction	Sediment Fraction	SUF	IR	RTV	CI	HQ
PEST/PCE	4,4'-DDD							0.52		
PEST/PCE	4,4'-DDE	3.52E-04	0.019	0.90	0.10	1.0	0.11	0.13	1.858E-03	1.429E-02
PEST/PCE	4,4'-DDT	3.29E-04	0.012	0.90	0.10	1.0	0.11	0.10	1.142E-03	1.142E-02
PEST/PCE	Aldrin	8.86E-04	0.0018	0.90	0.10	1.0	0.11	1.0	1.853E-04	1.853E-04
PEST/PCE	Aroclor-1260	0.0040	0.24	0.90	0.10	1.0	0.11	1.8	2.319E-02	1.303E-02
PEST/PCE	Dieldrin	4.73E-04	0.077	0.90	0.10	1.0	0.11	0.080	7.569E-03	9.461E-02
PEST/PCE	Endosulfan II	3.22E-04	0.0098	0.90	0.10	1.0	0.11	10	9.678E-04	9.678E-05
PEST/PCE	Endrin aldehyde	7.30E-04	0.013	0.90	0.10	1.0	0.11	0.30	1.313E-03	4.376E-03
PEST/PCE	Heptachlor	7.19E-04	0.0014	0.90	0.10	1.0	0.11	0.080	1.432E-04	1.790E-03
PEST/PCE	Heptachlor epoxide	0.026	0.022	0.90	0.10	1.0	0.11	0.0023	2.413E-03	1.049E+00
PEST/PCE	Methoxychlor	0.0020	0.045	0.90	0.10	1.0	0.11	220	4.456E-03	2.026E-05
PEST/PCE	gamma-BHC (Lindane)	8.47E-04	0.0024	0.90	0.10	1.0	0.11	4.0	2.486E-04	6.215E-05
METALS	Arsenic	6.0	3.7	0.90	0.10	1.0	0.11	5.1	4.262E-01	8.292E-02
METALS	Barium	7.4	4.2	0.90	0.10	1.0	0.11	21	4.927E-01	2.365E-02
METALS	Cadmium	0.25	0.060	0.90	0.10	1.0	0.11	1.5	8.620E-03	5.945E-03
METALS	Chromium	116	22	0.90	0.10	1.0	0.11	10	3.383E+00	3.317E-01
METALS	Copper	163	103	0.90	0.10	1.0	0.11	47	1.188E+01	2.528E-01
METALS	Lead	9.8	3.4	0.90	0.10	1.0	0.11	8.1	4.428E-01	5.466E-02
METALS	Manganese	274	208	0.90	0.10	1.0	0.11	977	2.339E+01	2.394E-02
METALS	Mercury	0.13	0.030	0.90	0.10	1.0	0.11	0.32	4.311E-03	1.347E-02
METALS	Molybdenum	1.2	0.27	0.90	0.10	1.0	0.11	7.1	3.873E-02	5.486E-03
METALS	Nickel	79	15	0.90	0.10	1.0	0.11	15	2.327E+00	1.503E-01
METALS	Selenium	1.3	1.6	0.90	0.10	1.0	0.11	0.40	1.727E-01	4.318E-01
METALS	Silver	0.64	1.3	0.90	0.10	1.0	0.11	2.1	1.315E-01	6.204E-02
METALS	Vanadium	135	20	0.90	0.10	1.0	0.11	11	3.473E+00	3.046E-01
METALS	Zinc	119	123	0.90	0.10	1.0	0.11	15	1.336E+01	9.216E-01

Notes:

Bold and shading indicate that the concentration exceeds a hazard quotient of 1.
 All concentrations are given in dry weight.

SUF = site use factor
 IR = ingestion rate
 RTV = reference toxicity value
 CI = chemical intake
 HQ = hazard quotient
 NTV = no toxicity value
 R = rejected value

PEST/PCB = pesticides/polychlorinated biphenyls

mg/kg = milligrams per kilogram