

Table 5-21

Summary of Risk-Based Consumption Limits for Tilapia From Waimanalo Stream (Meals per Month)

Bellows OU1 EE/CA, Bellows AFS, Hawaii

Target Increased Lifetime Cancer Risk/Hazard Index	Consumption Limit (Meal Size of Fillets)				Consumption Limit (Meal Size of Whole Fish)			
	4 ounce (0.114 kg)	8 ounce (0.227 kg)	12 ounce (0.341 kg)	16 ounce (0.454 kg)	4 ounce (0.114 kg)	8 ounce (0.227 kg)	12 ounce (0.341 kg)	16 ounce (0.454 kg)
WSU								
Cumulative Target Risk Level of 1x1	57.6	28.8	19.2	14.4	20.1	10.0	6.69	5.02
Cumulative Target Risk Level of 1x1	5.76	2.88	1.92	1.44	2.01	1.00	0.67	0.50
Cumulative Target Risk Level of 1x1	0.58	0.29	0.19	0.14	0.20	0.10	0.07	0.05
Hazard Index = 1	49.7	24.8	16.6	12.4	5.58	2.79	1.86	1.40
WS-001								
Cumulative Target Risk Level of 1x1	36.8	18.4	12.3	9.19	8.18	4.09	2.73	2.04
Cumulative Target Risk Level of 1x1	3.68	1.84	1.23	0.92	0.82	0.41	0.27	0.20
Cumulative Target Risk Level of 1x1	0.37	0.18	0.12	0.09	0.08	0.04	0.03	0.02
Hazard Index = 1	36.1	18.0	12.0	9.02	3.86	1.93	1.29	0.97
WS-002								
Cumulative Target Risk Level of 1x1	59.0	29.5	19.7	14.8	12.3	6.14	4.09	3.07
Cumulative Target Risk Level of 1x1	5.90	2.95	1.97	1.48	1.23	0.61	0.41	0.31
Cumulative Target Risk Level of 1x1	0.59	0.30	0.20	0.15	0.12	0.06	0.04	0.03
Hazard Index = 1	51.8	25.9	17.3	12.9	4.88	2.44	1.63	1.22
WS-003								
Cumulative Target Risk Level of 1x1	47.4	23.7	15.8	11.9	10.2	5.1	3.39	2.54
Cumulative Target Risk Level of 1x1	4.74	2.37	1.58	1.19	1.02	0.51	0.34	0.25
Cumulative Target Risk Level of 1x1	0.47	0.24	0.16	0.12	0.10	0.05	0.03	0.03
Hazard Index = 1	42.5	21.3	14.2	10.6	5.00	2.50	1.67	1.25
WSD								
Cumulative Target Risk Level of 1x1	68.2	34.1	22.7	17.0	16.8	8.4	5.61	4.21
Cumulative Target Risk Level of 1x1	6.82	3.41	2.27	1.70	1.68	0.84	0.56	0.42
Cumulative Target Risk Level of 1x1	0.68	0.34	0.23	0.17	0.17	0.08	0.06	0.04
Hazard Index = 1	46.1	23.0	15.4	11.5	7.08	3.54	2.36	1.77

Note:

kg = kilogram

For the purposes of the Waimanalo Stream risk assessment, a fish consumption limit of less than one-half a meal (8-ounce) per month at a target cancer risk of 10⁻⁴ or a hazard index of 1.0 was considered an exceedance of the action level. The hatched results indicate that the consumption limit is greater than one-half a meal (8-ounce) per month for fish from each sampling location, therefore not exceeding the action level.