

Mercury TMDL for the State of Florida

Appendix J

Probability Distribution Functions

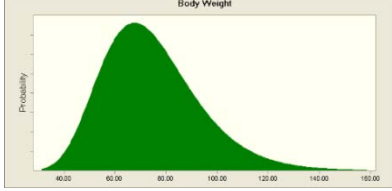
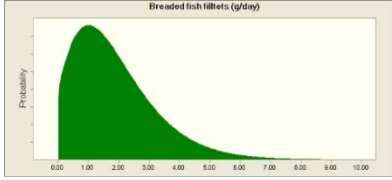
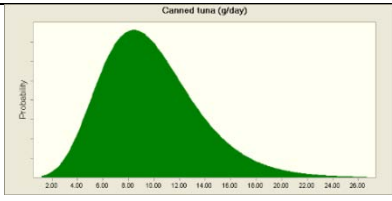
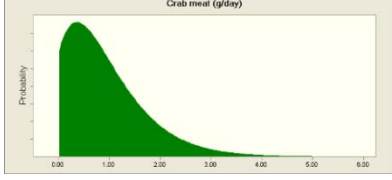
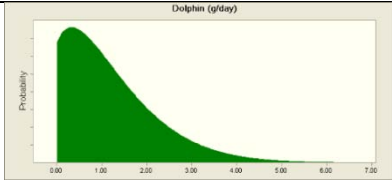
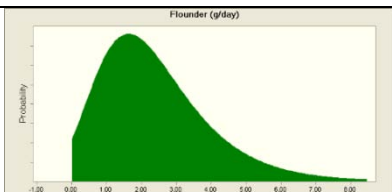
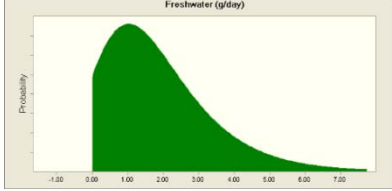
Watershed Evaluation and TMDL Section

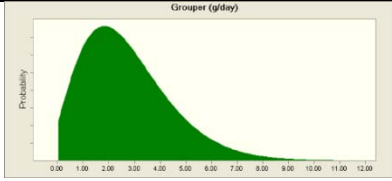
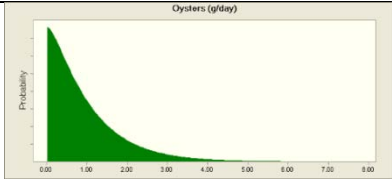
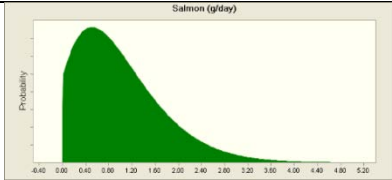
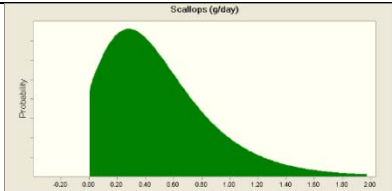
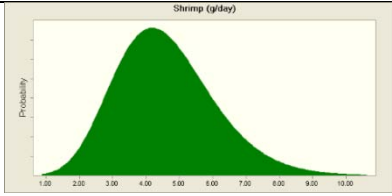
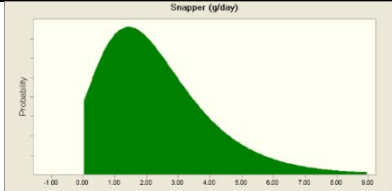
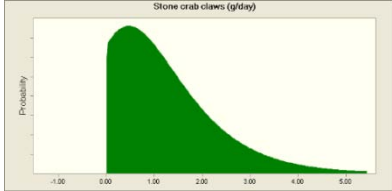


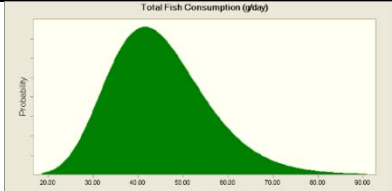
May 22, 2012

Appendix J: Probability Distribution Functions.

Table J-1. Probability Distribution Functions

Statistical Assumption	Distribution
Assumption: Body Weight Lognormal distribution with parameters: Location 0.00 Mean 74.55 Std. Dev. 19.32	
Assumption: Breaded fish fillets (g/day) Beta distribution with parameters: Minimum: -0.60 Maximum 61.63 Alpha 2.84668 Beta 70.65138 Selected range is from 0.00 to infinity	
Assumption: Canned tuna (g/day) Lognormal distribution with parameters: Location -4.90 Mean 9.81 Std. Dev. 3.86 Selected range is from 0.00 to infinity	
Assumption: Crab meat (g/day) Beta distribution with parameters: Minimum: -0.35 Maximum 54.97 Alpha 2.29038 Beta 100 Selected range is from 0.00 to infinity	
Assumption: Dolphin (g/day) Beta distribution with parameters: Minimum: -0.34 Maximum 11.89 Alpha 1.63465 Beta 11.88145 Selected range is from 0.00 to infinity	
Assumption: Flounder (g/day) Maximum Extreme distribution with parameters: Likeliest 1.63 Scale 1.29 Selected range is from 0.00 to infinity	
Assumption: Freshwater (g/day) Maximum Extreme distribution with parameters: Likeliest 1.02 Scale 1.27 Selected range is from 0.00 to infinity	

Statistical Assumption	Distribution
Assumption: Grouper (g/day) Beta distribution with parameters: Minimum: -0.77 Maximum 34.52 Alpha 3.4284 Beta 31.61398 Selected range is from 0.00 to infinity	
Assumption: Oysters (g/day) Beta distribution with parameters: Minimum: -0.13 Maximum 87.81 Alpha 1.15783 Beta 100 Selected range is from 0.00 to infinity	
Assumption: Salmon (g/day) Beta distribution with parameters: Minimum: -0.39 Maximum 14.33 Alpha 2.66386 Beta 26.55724 Selected range is from 0.00 to infinity	
Assumption: Scallops (g/day) Maximum Extreme distribution with parameters: Likeliest 0.28 Scale 0.32 Selected range is from 0.00 to infinity	
Assumption: Shrimp (g/day) Lognormal distribution with parameters: Location -3.30 Mean 4.60 Std. Dev. 1.51	
Assumption: Snapper (g/day) Maximum Extreme distribution with parameters: Likeliest 1.43 Scale 1.42 Selected range is from 0.00 to infinity	
Assumption: Stone crab claws (g/day) Maximum Extreme distribution with parameters: Likeliest 0.46 Scale 0.94 Selected range is from 0.00 to infinity	

Statistical Assumption	Distribution
Assumption: Total Fish Consumption (g/day) Lognormal distribution with parameters: Location -5.91 Mean 44.93 Std. Dev. 11.10	



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