



This document is part of Appendix A, Deck Runoff: Nature of Discharge for the "Phase I Final Rule and Technical Development Document of Uniform National Discharge Standards (UNDS)," published in April 1999. The reference number is EPA-842-R-99-001.

Phase I Final Rule and Technical Development Document of Uniform National Discharge Standards (UNDS)

Appendix A

Deck Runoff: Nature of Discharge

April 1999

**Table 2. Estimate of Annual Weather Deck Runoff From Precipitation
Navy Surface Ships, By Port**

Ship Class	Home Port:		Norfolk, VA	Pearl Hr, HI	Pascagoula, MS	San Diego, CA
	Average Annual Rainfall (in):		45	25	72	10
	Weather Deck Area (sq ft)	Days within 12 n.m.	No. Ships	No. Ships	No. Ships	No. Ships
Virginia Class Cruisers (CGN 38)	28,747	164				
California Class Cruisers (CGN 36)	28,358	146	1			
Ticonderoga Class Cruisers (CG 47)	22,164	169	7	3	2	8
Kidd Class Destroyers (DDG 993)	24,166	104	2			
Arleigh Burke Class Destroyers (DDG 51)	26,326	178	7	2		5
Spruance Class Destroyers (DD 963)	22,021	181	9	4		6
Oliver Hazard Perry Class Frigates (FFG 7)	13,676	170	12	2	2	12
Blue Ridge Class Command Ships (LCC 19)	53,569	181	1			
Austin Class Transport Docks (LPD 4)	44,460	181	1			2
Austin Class Transport Docks (LPD 7)	44,460	191	1			1
Austin Class Transport Docks (LPD 14)	44,460	195	2			
Whidbey Class Dock Landing Ships (LSD 41)	39,934	171				3
Harpers Ferry Class Dock Landing Ships (LSD 49)	39,934	216				1
Anchorage Class Dock Landing Ships (LSD 36)	36,252	218				3
Newport Class Tank Landing Ships (LST 1179)	28,314	183		1		
Avenger Class Mine Countermeasures Ship (MCM 1)	6,814	239				
Osprey Class Coastal Minehunters (MHC 51)	5,264	239				
Cyclone Class Patrol Ships (PC 1)	3,308	110				4
Austin Class Command Ship (AGF 11)	29,250	186				1
Safeguard Class Salvage Ships (ARS 50)	10,144	214		2		
Emory S Land Class Submarine Tenders (AS 39)	42,684	295	1			1
Estimated Surface Runoff, (gal/yr):			14,458,310	2,165,816	1,492,969	3,451,692
			Estimated Total, All Ports (gal/yr):			37,271,490