Input of Oil into the Sea

Million metric tonnes per year

	1971	1980	1989	2000
Tanker operations	1080	700	159	36
(as % of crude oil traded)	0.098%	0.053%	0.015%	0.002%
Bilge and fuel oils	500	300	253	270
Accidents	300	420	121	124
Runoff, municipal/industrial waste	2700	1180	No est.	140
Atmospheric fallout	600	300	No est.	54
Total	5180	2900	533*	624

* Lower because runoff and atmospheric emissions not estimated.

	Year of estimate			
	1971	1980	1989	2000
Transportation				
Tanker operations	1080	700	159	36
As % of Crude Trade	0.098%	0.053%	0.015%	0.002%
Bilge and fuel oils	500	300	253	270
Accidents	300	420	121	124
Municipal/industrial waste and runoff	2700	1180	No est.	140
Atmosphere - emissions fallout	600	300	No est.	54
Total	5180	2900	533	624
Discharge from Tanker Operations	1080	700	159	36
Crude traded (mta)	1100	1319	1097	1520
Discharge as % of Crude Trade	0.0982%	0.0531%	0.0145%	0.0024%

	Year of estimate:			
	1971	1980	1989	2000
Transportation				
Tanker operations	1.080	0.700	0.159	

Dry-docking	0.250	0.030	0.004	
Terminal operations	0.003	0.020	0.030	
Bilge and fuel oils	0.500	0.300	0.253	
Accidents	0.300	0.420	0.121	0.100
Scrappings	No est.	No est.	0.003	
Subtotal	2.133	1.470	0.569	
Offshore production	0.080	0.050	No est.	
Municipal and industrial wastes and runoff	2.700	1.180	No est.	
Natural sources	0.600	0.250	No est.	
Atmosphere - emissions fallout	0.600	0.300	No est.	0.005
Total	6.113	3.250	0.569	
Discharge from Tanker Operations	1.080	0.700	0.159	
Crude traded (mta)	1100	1319	1097	
Discharge as % of Crude Trade	0.10%	0.05%	0.02%	

Sources: National Academy of Sciences, Petroleum in the Marine Environment (Washington, D.C.: National Academy of Sciences, 1975); National Academy of Sciences, and National Research Council, Oil in the Sea: Inputs, Fates and Effects (Washington, D.C.: National Academy Press, 1985); MEPC 30/INF.13 (19 September 1990).