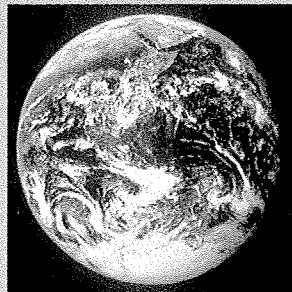


# 1995

## *International Coastal Cleanup*

### **RESULTS**



Center for Marine Conservation

# 1995 INTERNATIONAL COASTAL CLEANUP RESULTS

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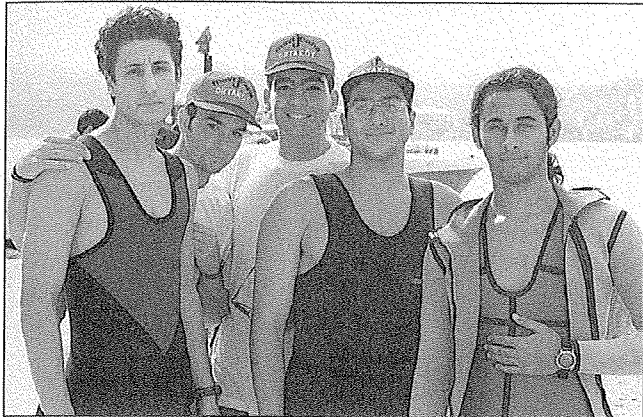
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The International Coastal Cleanup, celebrating its tenth year, is a phenomenon that exists only because of the dedication of the thousands of volunteers and supporters who give of their time, resources, and energies to organize, promote, and conduct this event. Saying THANK YOU to the cleanup coordinators, zone captains, sponsors and volunteers seems a bit inadequate, but it is heartfelt and genuine. The success of this 10-year effort is possible only due to their continued support.

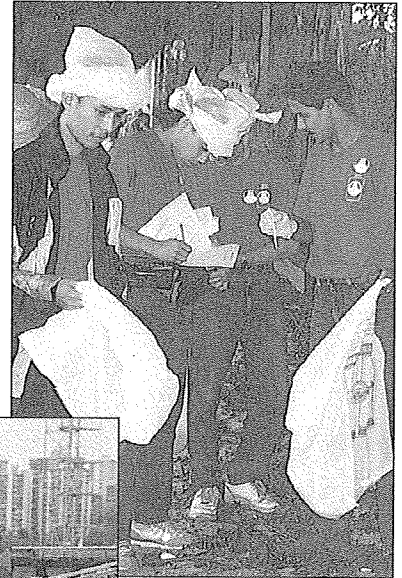
The Center would especially like to recognize the following cleanup coordinators who worked so hard to make the 1995 cleanup possible. They are:

Ellik Adler (Israel)	Patricia Lamelas (Dominican Republic)
Roberto Peniche Aguilar (Yucatán, Mexico)	Doris Lau (Hong Kong)
Stasé Alenskiené (Lithuania)	Ana Laura Lara-Dominguez (Campeche, Mexico)
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Gael Arnold (New Zealand)	Anthony Malic (Belize)
Larry Awosika (Nigeria)	Diego Díaz Martín (Venezuela)
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Brozo Gopal Biswas (Bangladesh)	Dimitris Mitsatsos (Greece)
Peter Bormanis (Latvia)	Elizabeth Mohammed (Trinidad and Tobago)
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Sheila Carter (Jamaica)	Kathleen Kirkpatrick Nash (Marshall Islands)
Mina Cheah Kim Choo (Malaysia)	Charmaine Nathaniel (St. Lucia)
Segundo Coello (Ecuador)	Quint Newcomer (Costa Rica)
John Cortes (Gibraltar)	Brenna Nysenik (Canada)
Donna Lee Crawford (Bahamas)	Orville Phillip (British Virgin Islands)
Andreas Demetropoulos (Cyprus)	Sam Pollard (United Kingdom)
Kenny Ehman (Okinawa, Japan)	Vaughan Pratt (Philippines)
Alma Eiley (Belize)	Ratko Profozic (Croatia)
Lilia Fidalgo (Portugal)	Joshua Ramsammy (Guyana)
Michelle Fulford (Turks and Caicos)	Daniel Rolleri (Argentina)
Lynn Gape (Bahamas)	Felipa Saavedra (Panama)
Nancy Gehlen (Canada)	Rusk Saburo (Palau)
Diana Gevers (Bonaire, Netherlands Antilles)	Peter Schiess (Egypt)
Minerva Mari Hadad (Cozumel, Mexico)	Raymond Seebald (Curaçao, Netherlands Antilles)
Rene Haller (Kenya)	Sheila Marino Simão (Brazil)
Leif Hammingsson (Sweden)	Thomas Sobotta (PADI Europe)
Wayne Hasson (Cayman Islands)	Gabrielle Springer (Barbados)
Edo Heinrich-Sanchez (Okinawa, Japan)	Catherine Sullivan-Banner (Singapore)
Tomasz Józwiak (Poland)	Kelly Ward (Palau)
Yumi Kikuchi (Japan)	Patricia Wills (Colombia)
James Kinley (St. Vincent and the Grenadines)	Wanda Wynne (Norway)
Azusa Kojima (Japan)	

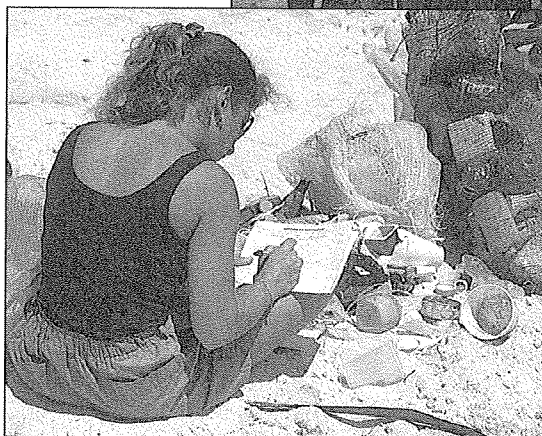
This report is dedicated to the 214,773 individuals around the world whose spirit of volunteerism and commitment to clean beaches and a healthy marine environment made the 1995 International Coastal Cleanup possible.



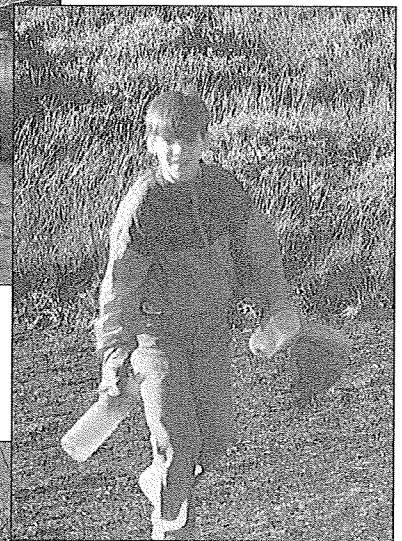
Above: These young and enthusiastic Turkish divers worked very hard in their underwater cleanup. Right: Vancouver Aquarium volunteers braved the rain—on Thanksgiving weekend!—to clean Coal Harbor, British Columbia, Canada.



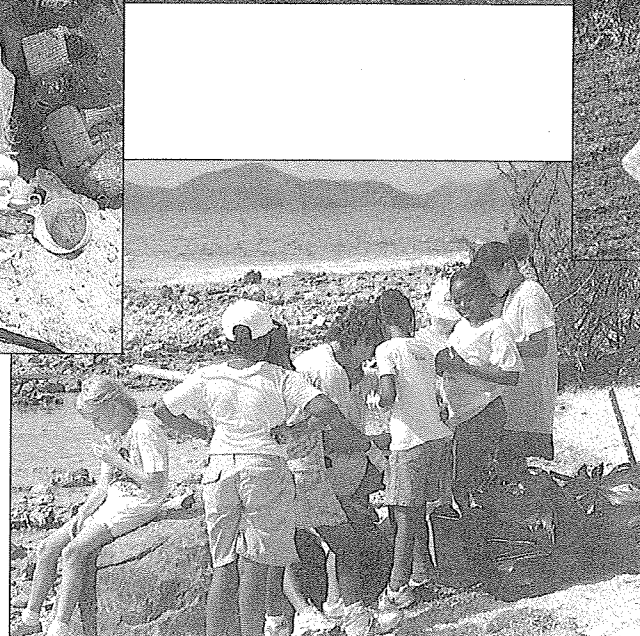
Right: Four friends hard at work collecting trash and data in Malaysia.



Above: This Mexican volunteer is surrounded by the fruits of her labor. Right: Girl Guides tallying debris in the British Virgin Islands.

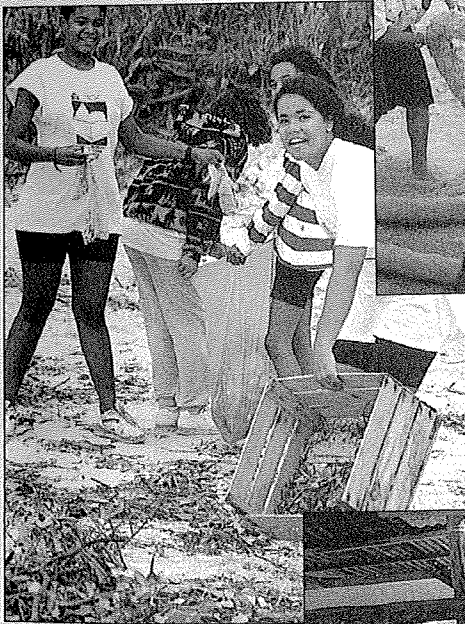
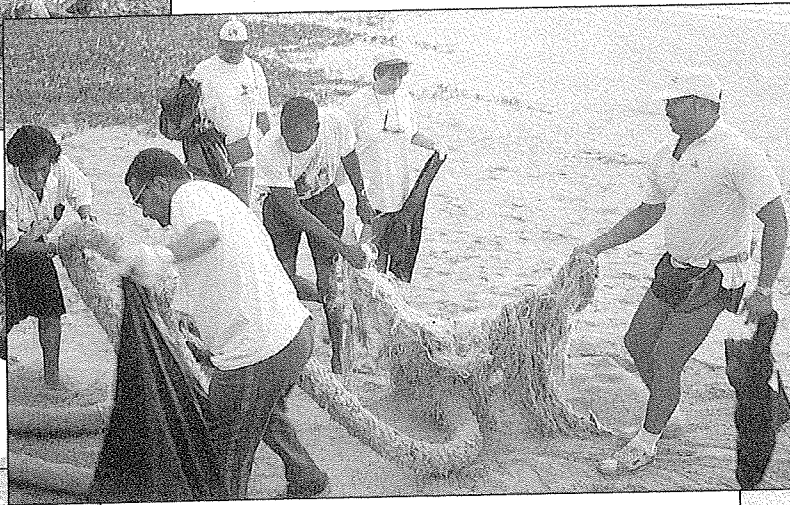


Above: An solitary yet eager beach buddy in Portugal has his hands full.

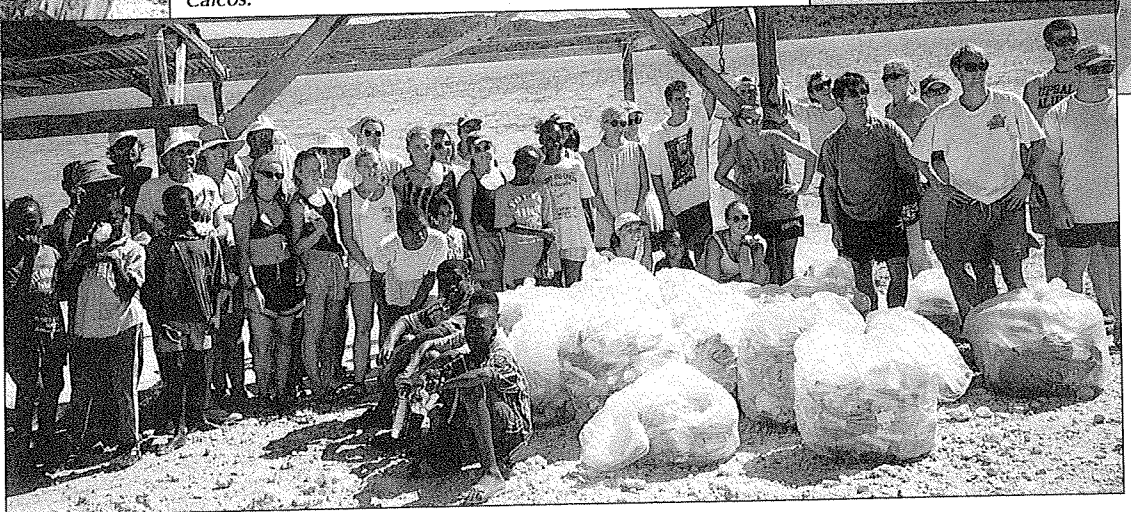
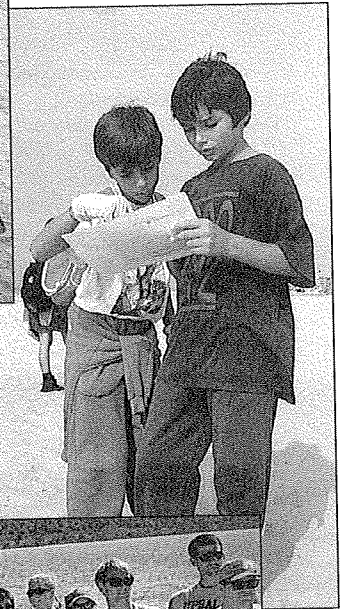


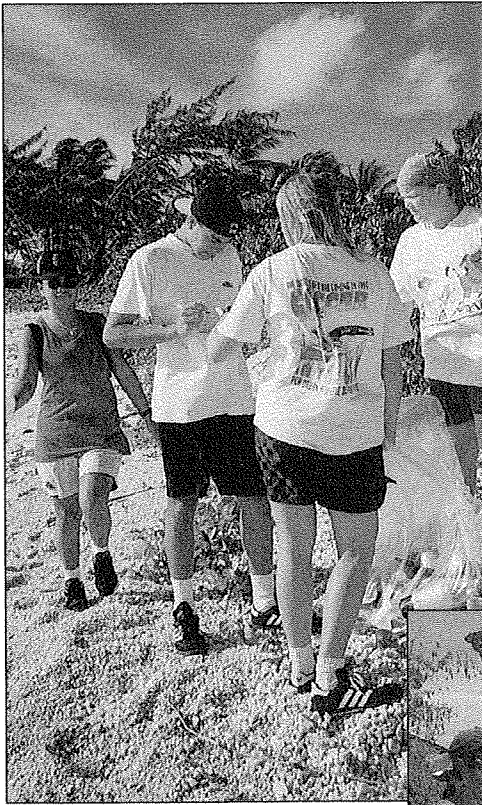


*Left: Collecting and counting debris in Panama. Right: Asking "how do I record this?" in Japan. Below: Teamwork was essential to pull this rope from a beach in Barbados.*



*Left: A little laughter helps lighten the load in Brazil. Right: Schoolchildren in Spain take their work seriously. Below: Tired but smiling volunteers pose with their trash in the Turks and Caicos.*

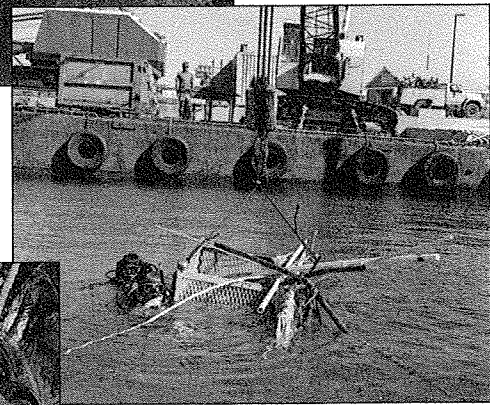




Above: These teen volunteers in the Marshall Islands take a final tally of their debris. Right: Loading debris to be hauled away in Ecuador.



Below: Rear Admiral Teo Chee Hean and officers of the Rotary Club kick off the cleanup in Singapore.



Left: Getting last minute instructions before hitting the beach in Trinidad and Tobago. Above: Divers and their debris from underwater in the Cayman Islands.



# INTRODUCTION

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The International Coastal Cleanup is not about trash. It's about the compelling need for a clean ocean and waterways. It's about people. It's about cooperation and partnerships. And, it's about solutions. The Center for Marine Conservation (CMC) sponsored its first beach cleanup in 1986, when nearly 2,800 volunteers collected 124 tons of trash from 122 miles of Texas shoreline. In 1988, the first U.S. nationwide cleanup took place with 25 states and territories, just months before Annex V of the MARPOL Treaty took effect.<sup>1</sup> The Cleanup became an international event when Mexico and Canada participated in 1989. Since 1989, 82 countries bordering every major body of water on our planet have participated in the annual Cleanup involving almost a million volunteers.

The growth of the Cleanup is a testament to the global nature of the marine debris problem, and the expansion to inland areas along streams, rivers, lakes, and other drainage systems reflects the growing realization that a significant amount of the debris in coastal areas originates upland. Oceans do not recognize cultural, political, or geographic boundaries. Neither does pollution, especially marine debris. The Cleanup has also experienced a surge in participation from the dive community, as they work to assess the impact of marine debris in the underwater realm. Still, the International Coastal Cleanup provides only a glimpse—a snapshot in time—of the marine debris issue plaguing the world's shorelines and waterways.

The ocean has historically been a dump site for human-made debris. Marine debris is defined as human-made materials that are thrown, dumped, or allowed into waterways and the ocean. These materials are carried by prevailing winds and ocean currents all over the world. The effects of marine debris include aesthetic and economic impacts; human health and safety; animal entanglement and ingestion; and habitat destruction.

The data in this report registers the pulse of the problem, and can be used by citizens and policy makers in evaluating our progress in dealing with this pollution issue. In the past ten years we have made significant strides in combatting the marine debris problem and creating an effective public awareness campaign regarding the handling of solid waste. Unfortunately, as you will see in this report, we still have much work to do to bring this problem under control.

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<sup>1</sup>The International Convention for the Prevention of Pollution from Ships is commonly referred to as the MARPOL (MARine POLLution) Treaty. Ocean dumping of any ship-generated garbage, especially plastics, has been prohibited since Annex V went into effect on December 31, 1988. These restrictions apply to those countries and their territorial waters that have ratified this portion of the Treaty. As of May 1996, 79 countries had ratified MARPOL Annex V.

# 1995 INTERNATIONAL COASTAL CLEANUP RESULTS

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## OVERVIEW

The 1995 International Coastal Cleanup marked the tenth year of CMC's environmental effort devoted to removing debris from our shorelines, waterways, beaches, and underwater, and working to find solutions to the problem of marine debris. In 64 countries and sovereign territories, 214,773 volunteers at more than 4,000 cleanup sites scoured approximately 11,260 kilometers (6,994 miles) of waterways and beaches—on land and underwater—to remove 1,840,380 kilograms (3,767,256 pounds) of debris (Table 1). In all, volunteers collected 6,201,211 pieces of debris (Table 2).

The International Coastal Cleanup focuses on data collection and tabulation as well as eyewitness observations of marine debris. CMC analyzed 22,190 individual data cards from the 1995 Cleanup. Interpretation of these results depends on appropriate standards of comparison regarding country, regional and global-level computations. Detailed country analyses reflect direct tabulations of debris reported by volunteers. Regional figures are computed based on compiled country records. Global percentages are determined from total debris collected.

The 1995 Cleanup saw the continued increase in the number of participating countries—64, up from 61 in 1994. The following countries joined the Cleanup for the first time in 1995: Austria\*, Belgium\*, Germany\*, Guyana, Maldives\*, Netherlands\*, Slovenia\*, St. Lucia, Sweden\*, and Switzerland\*. Countries marked with an asterisk (\*) joined the Cleanup through underwater activities sponsored by the Professional Association of Dive Instructors, Europe (PADI Europe). It should also be noted that several countries and territories in the Wider Caribbean were hit by Hurricanes Marilyn and Luis, which affected their participation in the annual Cleanup: Anguilla, Montserrat (UK), St. Kitts and Nevis, U.S. Virgin Islands, and Puerto Rico. Countries participating in the International Coastal Cleanup vary from year to year depending on a variety of factors, including the availability of resources and organizational logistics. For a complete listing and chronology of all countries that have participated in the Cleanup since 1989, see Appendix 1.

Volunteers who collected the marine debris data during the 1995 Cleanup help to monitor the effectiveness of Annex V of the MARPOL Treaty. The International Convention for the Prevention of Pollution from Ships, commonly referred to as the MARPOL Treaty, is the legal cornerstone of all ocean cleanup efforts. MARPOL covers numerous materials known to be dumped at sea; solid wastes, such as garbage and plastics, are covered in Annex V. Ocean dumping of all ship-generated plastics is prohibited; trash handling and processing and distance from shore requirements have been set for other types of solid wastes. As of May 1996, 79 countries had ratified MARPOL Annex V. For a complete listing of International Coastal Cleanup participants that are signatory to the MARPOL Treaty, see Appendix 2.

The variables in demographics, resources, geography, and even language of each country require caution when comparing Cleanup statistics. Detailed country/sovereign territory analyses are available separately from the Center for Marine Conservation.<sup>2</sup> This report organizes the countries that participated in the 1995 International Coastal Cleanup regionally, based on the body of water the country borders. In the case of landlocked countries of central Europe, a regional name has been assigned. The regions defined in this report are as follows: Arabian Gulf, Atlantic Ocean, Baltic Sea, Black Sea, European Interior, Indian Ocean, Mediter-

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<sup>2</sup>Individual copies of country/territory analyses can be obtained through CMC's Atlantic Regional Office, 306A Buckroe Avenue, Hampton, Virginia 23664 or by contacting the appropriate Country Cleanup Coordinator listed in Appendix 3.



ranean Sea, North Sea, Pacific Ocean, Red Sea, and Wider Caribbean (including the Gulf of Mexico and the Caribbean Sea). The maps on pages 8-10 illustrate this regional approach. In instances where a country borders more than one body of water (such as the United States or Mexico), the cleanup data was separated as appropriate. Thus, in the regional analyses the reader will see "U.S. Atlantic" and "U.S. Pacific." This regional orientation affords a more effective use of cleanup data in developing local solutions to the problem of marine debris.

Aside from the economic, aesthetic, and human health and safety reasons for cleaning beaches—a clean beach is more enjoyable, after all, than a dirty one—the data from the 1995 cleanup reveal a more serious issue, that of entanglement in and ingestion of debris by marine life. Sadly, the 1995 International Coastal Cleanup marked the highest number of animals ever recorded in the history of the Cleanup. One hundred seventy-nine animals were found entangled in various forms of debris, principally plastic. Of those 179 entanglements, volunteers were only able to release 18 animals. If 179 entanglements were discovered in one three-hour cleanup, imagine how many might occur during an entire year.

Beach cleanups bring people together—school children, fishers, boaters, government employees, port authority personnel, teachers, factory workers, scuba divers, and politicians, as well as members of environmental, cultural, and civic organizations. One of the benefits of this annual event is the realization that each volunteer is part of a huge international environmental effort, where hundreds of thousands of volunteers are doing the same thing—making a difference. Human hands and a human face lie behind every piece of garbage that enters the marine environment. The responsibility for this global problem does not belong solely to shipping companies, fishing fleets, and governments. Ultimately, some individual had to throw that trash overboard, into the street, down the toilet, or into a storm drain. People are the problem, but people are also the solution. Marine debris is one pollution problem that individuals can solve by direct, personal action. Once a volunteer has participated in a cleanup, they can never look at the ocean, a river, or lake with the same perspective.



*Brazil*



*Mexico*

**TABLE 1. Country-by-Country Breakdown of 1995 International Coastal Cleanup**

Country	Number of Volunteers	Kilograms/Pounds Collected	Kilometers/Miles Cleaned
Argentina	250	1,404/2,807	27/17
Bahamas	110	904/1,807	8/5
Bahrain*	1,640	14,696/32,331	6/3.6
Bangladesh	20	37/81	2/1.2
Barbados	115	962/2,116	8/4.8
Belize*	1,140	2,795/5,589	24/15
Brazil	101	850/1,870	2/1.2
British Virgin Islands	53	616/1,232	17.6/11
Cameroon	158	451/992	2/1.2
Canada*	369	3,162/6,324	46/27.6
Cayman Islands*	96	10,250/20,500	4.8/3
Colombia*	650	5,200/10,400	3/1.8
Costa Rica*	224	6,750/14,850	28/16.8
Croatia*	2,248	24,403/53,687	58/34.8
Cyprus	1,494	1,200/2,640	26/15.6
Dominican Republic	465	10,165/22,363	6.4/4
Ecuador*	1,057	25,901/56,982	64/38.4
Egypt*	236	13,850/30,470	115/69
Gibraltar*	50	not available	0.5/0.3
Greece*	1,277	4,848/10,666	35/21
Grenada	27	45/99	0.1/0.06
Guatemala	250	268/590	12/7.2
Guyana	70	317/633	9.6/6
Hong Kong	200	1,250/2,750	3.2/2
Israel*	570	17,850/39,270	17/10.2
Ivory Coast	452	32,000/64,000	4/2.4
Jamaica	244	10,500/21,000	5/3.1
Japan*	8,981	27,619/60,762	30/18
Kenya	774	4,000/8,800	29/17.4
Latvia*	131	627/1,379	8/4.8
Lithuania	234	2,500/5,500	8/4.8
Malaysia	180	1,143/2,515	3/1.8
Malta*	70	475/1,045	1/0.6
Marshall Islands	124	544/1,087	1.6/1
Mexico	1,998	20,391/44,860	59/35.4
Netherlands Antilles*	2,782	67,685/148,907	3/1.8
New Zealand*	500	not available	not available
Nigeria	218	1,260/2,772	4/2.4
Norway	85	1,000/2,200	10/6
Palau*	218	not available	6.4/4
Panama*	9,504	62,983/125,966	382/229.2
Philippines*	7,928	65,496/144,091	85/51
Poland	3,196	5,100/11,220	284/170.4
Portugal*	292	3,500/7,700	15/9

**TABLE 1. Country-by-Country Breakdown of 1995 International Coastal Cleanup, cont.**

Country	Number of Volunteers	Kilograms/Pounds Collected	Kilometers/Miles Cleaned
St. Lucia	38	845/1,690	0.48/0.3
St. Vincent and the Grenadines*	331	4,454/9,799	9/5.4
Singapore*	1,531	not available	20/12
Spain*	1,108	2,675/5,885	39/23.4
Sweden*	80	3,000/6,000	1.6/1
Trinidad and Tobago	522	1,608/3,538	8/4.8
Turkey*	40	640/1,408	not available
Turks and Caicos	92	1,344/2,688	1.6/1
United Kingdom*	2,350	30,012/66,026	193/115.8
United States*	134,929	1,272,005/2,544,009	9,392/5,870
Venezuela	16,641	not available	132/79.2
PADI Europe** Austria, Belgium, France, Germany, Italy, the Maldives, the Netherlands, Slovenia, Switzerland	6,330	68,800/151,360	not available
<b>Total</b>	<b>214,773</b>	<b>1,840,380/3,767,256</b>	<b>11,260/6,994</b>

*\*These countries conducted both shore-based and underwater cleanups*

*+This information is reported by PADI (Professional Association of Dive Instructors) Europe, which coordinated a regional underwater cleanup that included the 9 countries listed under "PADI Europe" above. Please see the "PADI Europe" country analysis for detailed analyses of the debris collected by divers in each of these countries. (If not included in this report, you may request it from the Center for Marine Conservation.)*



**Table 2. Total Number of Debris Items Collected During 1995 International Coastal Cleanups**

<b>PLASTIC</b>		<b>GLASS, cont.</b>	
Bags:		Light bulbs	10,343
food/wrappers	309,809	Pieces	240,742
salt	10,860	Other	49,364
trash	81,039	<b>RUBBER</b>	
other	113,706	Balloons	33,916
Bottles:		Condoms	10,005
beverage	202,808	Gloves	17,103
bleach	39,017	Tires	17,238
milk/water	40,558	Other	55,366
oil/lube	38,079	<b>METAL</b>	
other	73,168	Bottle caps	146,829
Buckets	16,236	Cans:	
Caps/lids	236,942	aerosol	20,761
Cigarette butts	912,771	beverage	189,706
Cigarette lighters	33,975	food	40,027
Cups/utensils	128,222	other	25,156
Diapers	19,512	Crab/fish traps	5,277
Fishing line	35,8744	55-gallon drums:	
Fishing nets	17,376	rusty	6,355
Floats/lures	17,987	new	968
Hard hats	2,539	Pieces	51,507
Light sticks	16,371	Pull tabs	39,822
Pieces	371,229	Wire	23,310
Pipe thread protectors	5,958	Other	53,841
Rope	97,661	<b>PAPER</b>	
Sheeting:		Bags	63,467
long	9,710	Cardboard	41,520
short	18,612	Cartons	43,930
Six-pack holders	39,677	Cups	52,285
Strapping bands	28,791	Newspaper/magazines	39,240
Straws	187,437	Pieces	226,209
Syringes	7,851	Plates	29,465
Tampon applicators	18,042	Other	69,957
Toys	34,729	<b>WOOD</b>	
Vegetable sacks	11,801	Crab/lobster traps	4,719
Write protection rings	9,068	Crates	4,704
Other	169,558	Lumber	102,005
<b>FOAMED PLASTIC</b>		Pallets	31,168
Buoys	21,010	Other	77,034
Cups	119,817	<b>CLOTH</b>	
Egg cartons	9,146	Clothing	91,811
Fast food containers	42,485	<b>TOTAL ITEMS</b>	<b>6,201,211</b>
Meat trays	17,340		
Packaging	58,684		
Pieces	291,278		
Plates	29,694		
Other	77,106		
<b>GLASS</b>			
Bottles:			
beverage	185,597		
food	33,769		
other	37,554		
Fluorescent light tubes	5,608		

## 1995 CLEANUP HIGHLIGHTS

From the composition of the debris collected during the Cleanup, it is obvious that people are using waterways and the ocean as personal dump sites for their day-to-day activities. The 1995 Cleanup documented materials that could easily furnish several houses. A few of the many **household materials** collected included:



- **Kitchen:** 18 refrigerators, 12 stoves/ovens, 5 freezers, 3 kitchen sinks, 2 dishwashers, and 1 garbage disposal were found in Barbados, Canada, Guyana, Jamaica, Mexico, Panama, and the United States.
- **Living Room:** 84 chairs, 27 televisions, 15 rugs, 9 sofas/couches/loveseats, 6 tables, 3 VCRs, 3 lamps and 1 lampshade, 2 radios, and 1 record player were found in Canada, Croatia, Egypt, Singapore, Spain, Turkey, and the United States.
- **Bedroom:** 20 mattresses, 15 blankets, 14 pillows, 10 bedframes, 4 bedspreads, 3 boxsprings, 3 quilts, and 2 bedsheets were found in Canada and the United States.
- **Bathroom:** 7 toilet seats, 3 toilet tanks, 2 toilet bowls, 2 toilet brushes, 2 toilet paper holders, 2 shower curtains, 1 shower head, 1 towel bar, 1 bathtub, 1 bath brush, and 1 shower cap were found Barbados, Canada, Turkey, and the United States.
- **Automobile parts** were also found to be abundant during the 1995 Cleanup—seven cars, along with enough engine parts to outfit a few dozen more, including five car engines, six engine blocks, three car axles, 19 batteries, 17 mufflers, 11 oil filters, a car hood, a clutch, a head lamp, a car door and a car door handle, a cam shaft, a brake master cylinder, and half of a carburetor. License plates, car mats, car seats and a seat cover, and windshields were also found to litter the shorelines.

The ocean and waterways also revealed some **bizarre and unusual** items during the 1995 Cleanup such as a human corpse in Kenya and a human skull in the United States.; a vial of blood in Jamaica and a urine sample in the United States; shotgun shells in Barbados, Guyana and the United States; and part of a airplane was discovered in Jamaica.

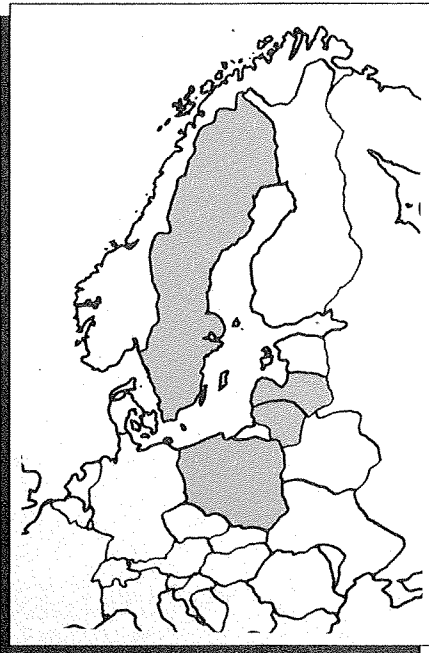
Remnants of **children's toys** including Barbie doll legs, a toy boat, the "Robin" action figure, and assorted dolls were found in Belize, Canada, Costa Rica, Dominican Republic, Ecuador, Kenya, Marshall Islands, Singapore, and the United States.

Several countries including Barbados, Cameroon, and Egypt reported "**tarballs**" and an **oil spill** during their cleanups. The presence of these materials along the beach is a strong indicator of off-shore dumping of oil by ships.

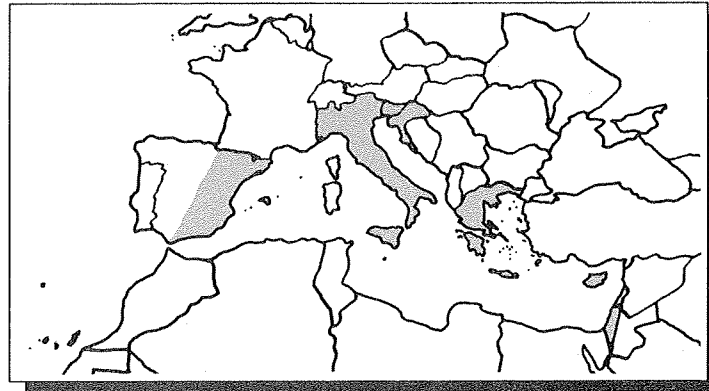
One cleanup volunteer in Sweden was **lucky** during the cleanup. He found his own dive knife, which he had lost two months earlier in a previous dive!

*A complete listing of the "most peculiar" debris items found during the 1995 International Coastal Cleanup can be found in Appendix 4.*

# REGIONAL GROUPING OF THE COUNTRIES PARTICIPATING IN THE 1995 INTERNATIONAL COASTAL CLEANUP

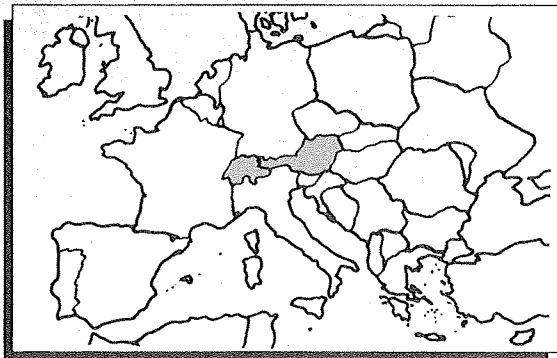
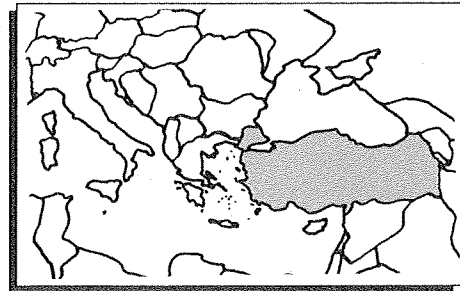


**Baltic Sea:** Sweden, Latvia, Lithuania, Poland



**Mediterranean Sea:** Gibraltar, Spain, Malta, Italy, Slovenia, Croatia, Greece, Israel, Cyprus

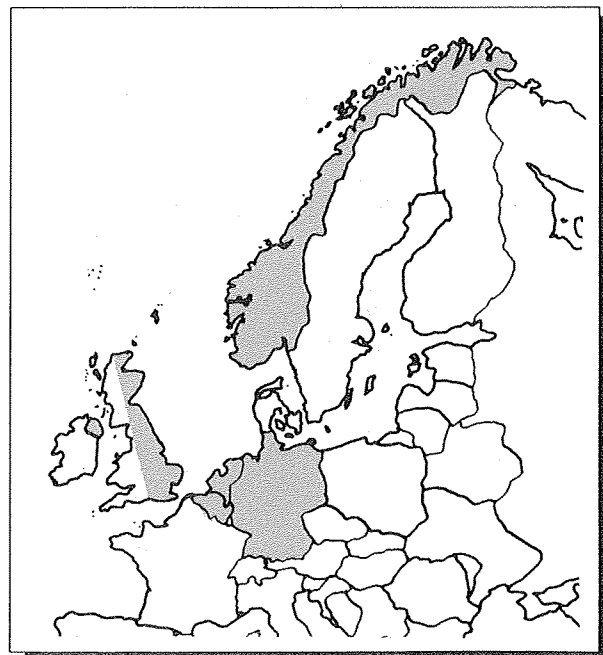
**Black Sea:** Turkey



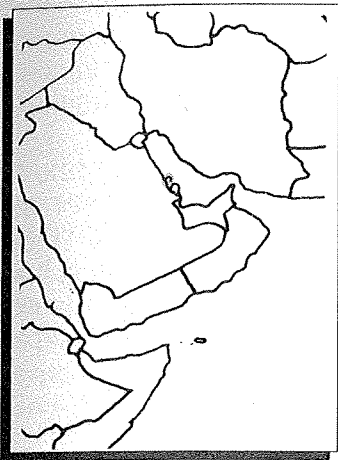
**European Interior:** Austria, Switzerland



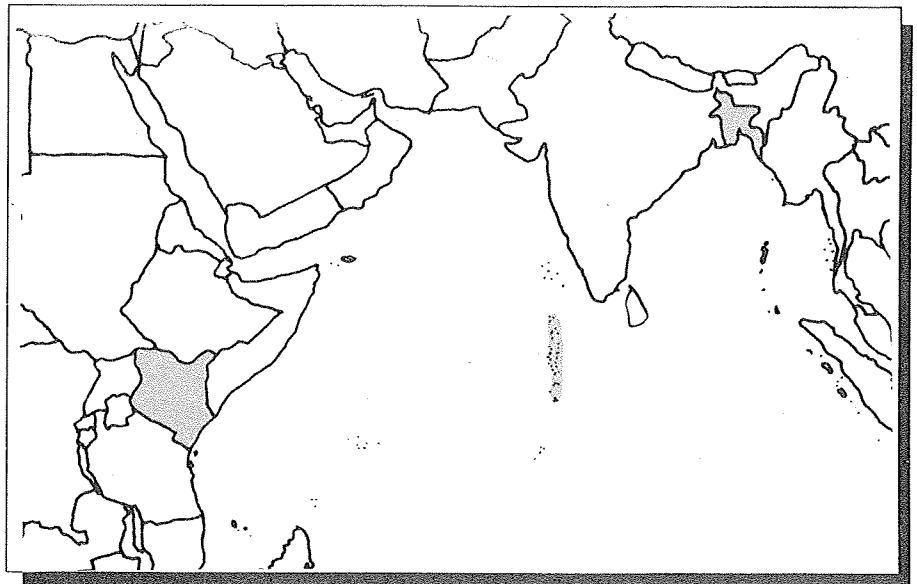
**Red Sea:** Egypt, Israel



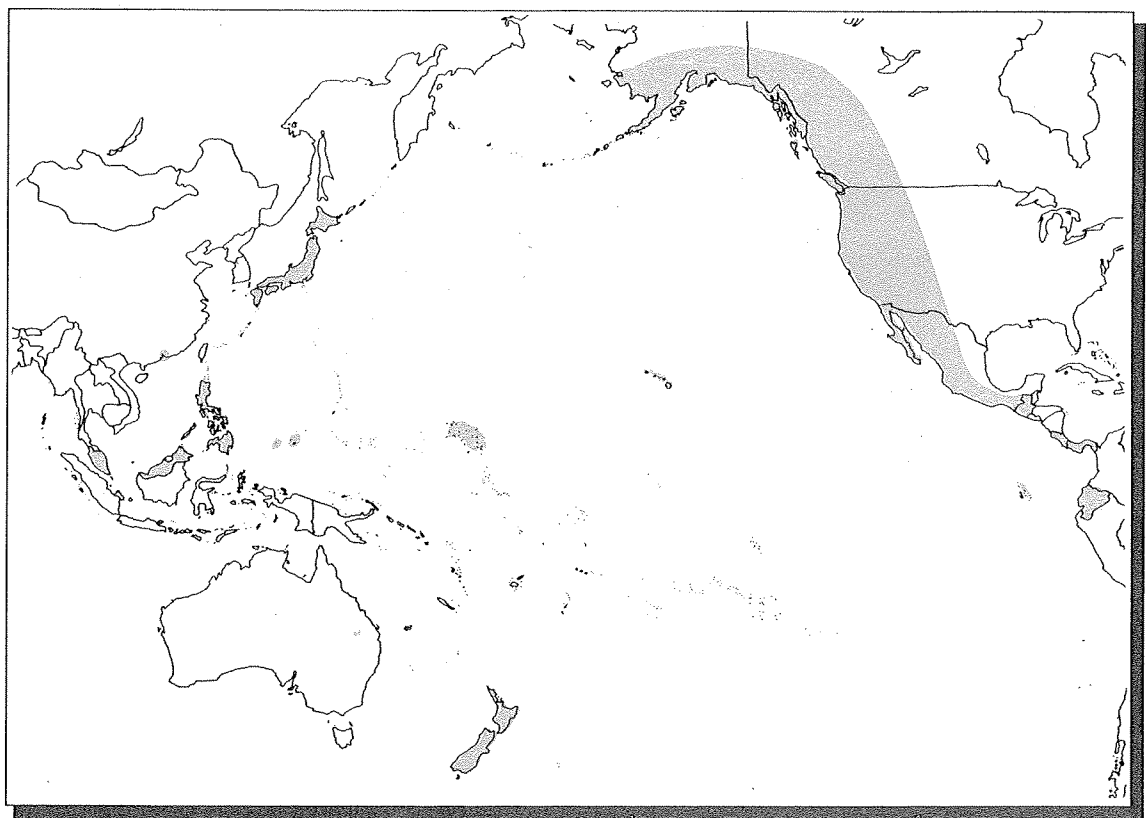
**North Sea:** United Kingdom, Belgium, Germany, the Netherlands, Norway



**Arabian Gulf:** Bahrain



**Indian Ocean:** Kenya, The Maldives, Bangladesh



**Pacific Ocean:** Canada, U.S. Pacific, Mexico, Guatemala, Costa Rica, Panama, Ecuador, Japan, Hong Kong, Malaysia, Singapore, Philippines, Palau, Marshall Islands, New Zealand



**Atlantic Ocean:** Canada, U.S. Atlantic Coast, Brazil, Argentina, United Kingdom, France, Spain, Portugal, Ivory Coast, Nigeria, Cameroon



**Wider Caribbean:** Bahamas, Turks and Caicos, Dominican Republic, Jamaica, Cayman Islands, U.S. Virgin Islands, British Virgin Islands, Puerto Rico, St. Lucia, Barbados, St. Vincent and the Grenadines, Grenada, Trinidad and Tobago, Guyana, Venezuela, Netherlands Antilles, Colombia, Panama, Costa Rica, Belize, Mexico, U.S. Gulf Coast

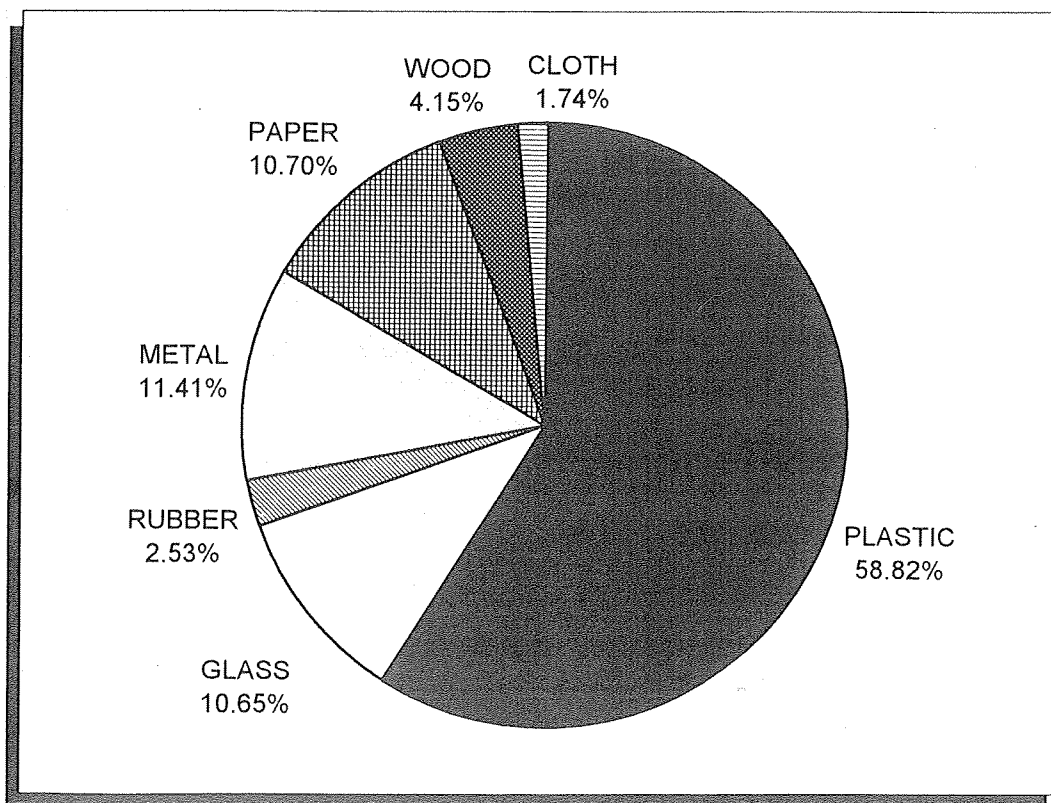


## THE MOST PREVALENT TYPE OF DEBRIS ON THE WORLD'S BEACHES AND WATERWAYS

Data collected in the International Coastal Cleanup is standardized on data cards developed by the Center for Marine Conservation to assess the types and sources of debris collected from beach, waterway, and underwater sites. CMC's data card lists 81 debris items in eight major categories: plastic, foamed plastic, glass, rubber, metal, paper, wood, and cloth (Appendix 5). The types of debris collected varies from region to region, country to country, and site to site. Further examination of the individual country summaries will provide additional insights as to the specific composition of the debris collected in the 1995 Cleanup.

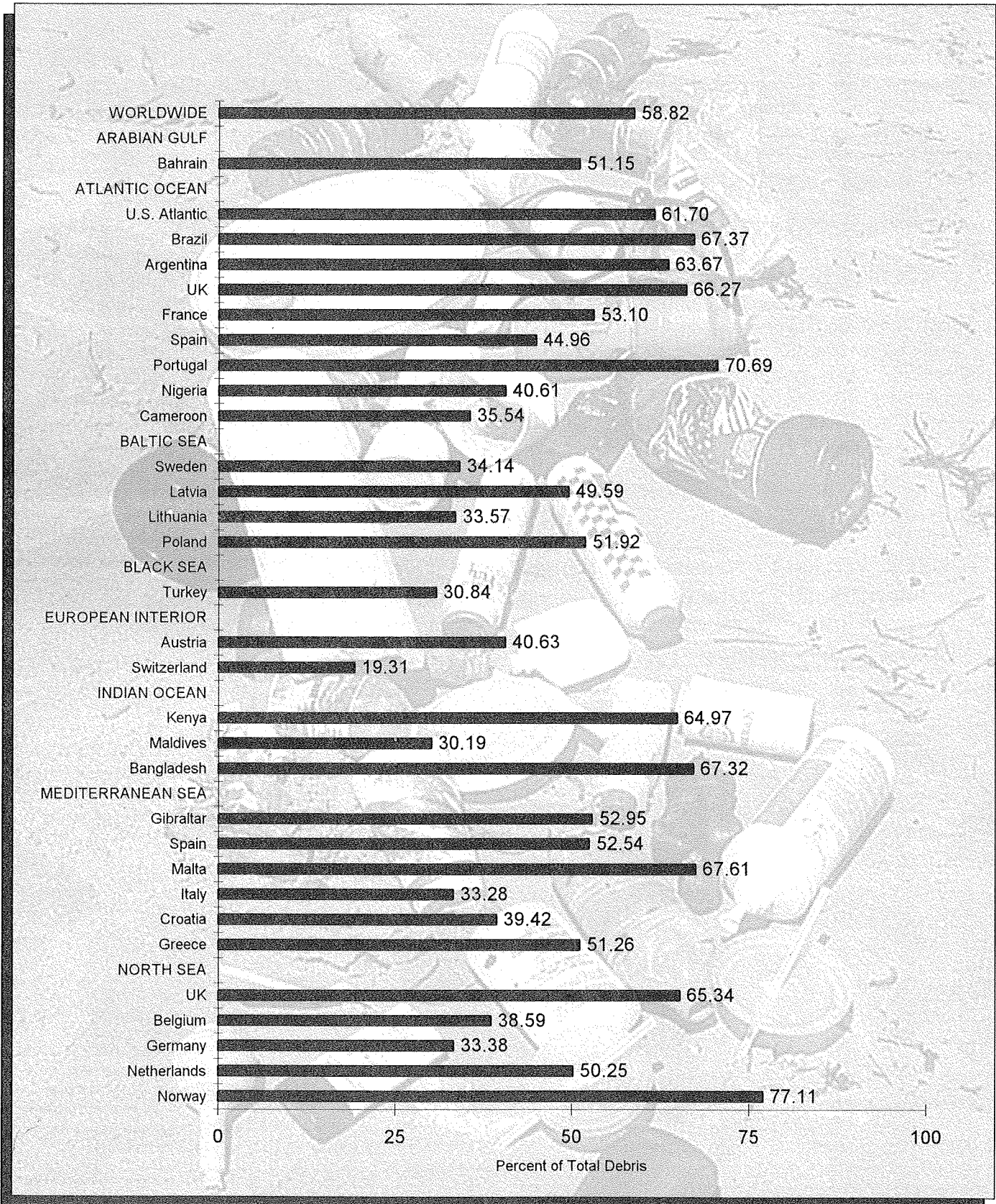
Worldwide, plastic (including foamed plastic) was once again the most abundant form of debris collected in the 1995 Cleanup. Overall, plastic materials made up 58.82% of the total debris (Figure 1), an increase from 56.97% in 1994. The second most notable form of debris was metal at 11.41%, followed by paper (10.70%) and glass (10.65%). Of the 64 countries and sovereign territories participating in the 1995 Cleanup, 28 countries exceeded the worldwide level for plastics (Figure 2). On the regional level, the highest percentages of plastic were recorded in the Wider Caribbean, followed by the Pacific, Atlantic, and Indian Oceans, respectively. The highest level of plastic recorded was in St. Lucia (92.30%), followed by Curaçao (Netherlands Antilles) (81.82%), Barbados (81.12%), and Norway (77.11%). The lowest level of plastic recorded in the 1995 Cleanup was in Switzerland (19.31%). It should be noted that Switzerland's cleanup was an underwater cleanup where the dominant debris forms were submerged metal beverage cans and glass bottles.

**FIGURE 1. Percent Composition of Debris Reported During 1995 International Coastal Cleanup**

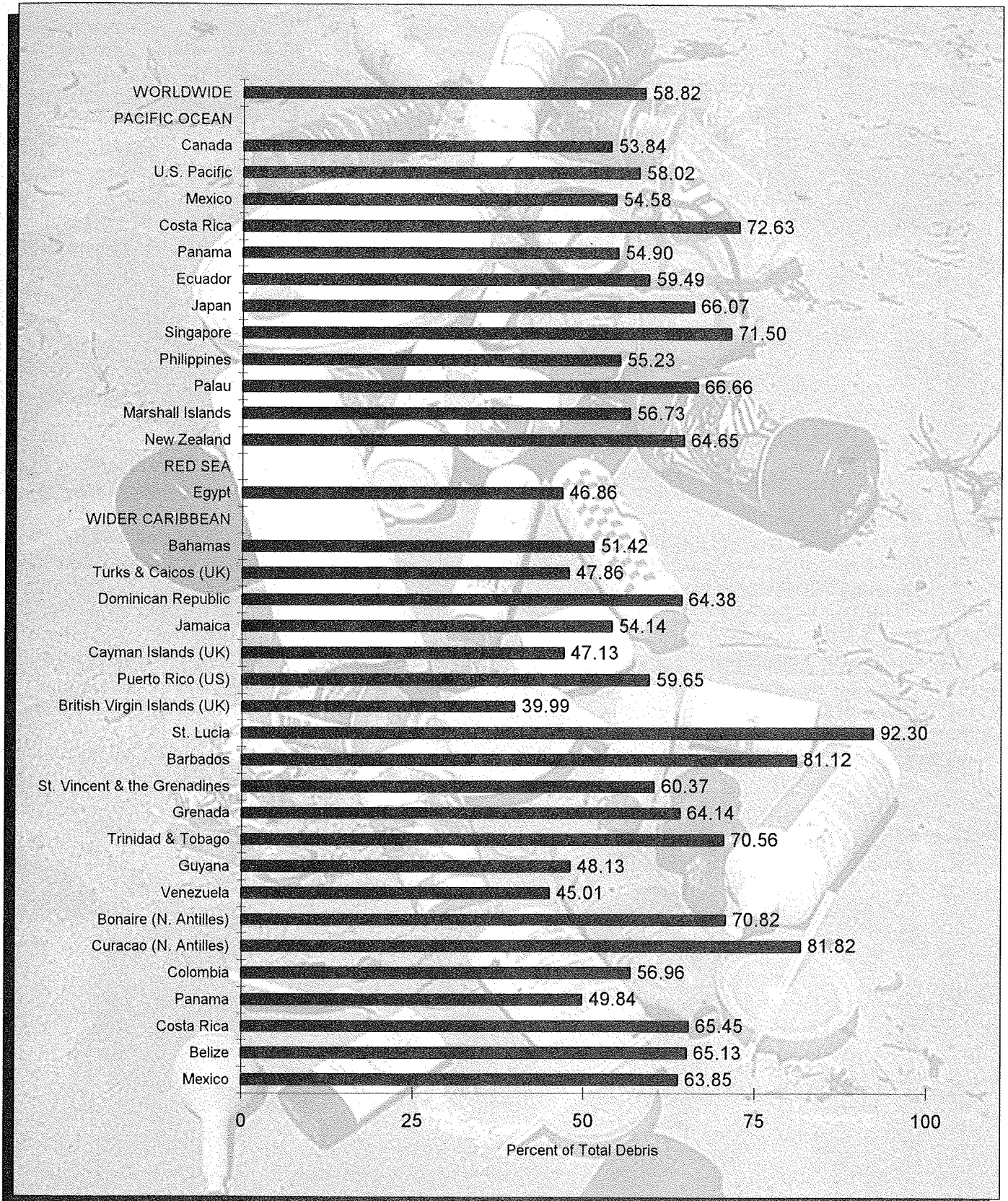


*The percentages include all debris reported, minus cigarette butts in the "plastics" category. Because they are so abundant in our waterways and on our beaches, including cigarette butts would distort data interpretation.*

**FIGURE 2. Plastic Debris Reported from 1995 International Coastal Cleanups**



**FIGURE 2. Plastic Debris Reported from 1995 International Coastal Cleanups, cont.**



## THE 1995 INTERNATIONAL DIRTY DOZEN

The twelve most abundant debris items collected along the world's shorelines, waterways, and underwater accounted for 56.47% of all debris. They were:

Rank	Debris Item	Total Number Reported	Percent of Total Debris Collected
1.	Cigarette butts	912,771	14.72
2.	Plastic pieces	371,229	5.99
3.	Plastic food bags/wrappers	309,809	5.00
4.	Foamed plastic pieces	291,278	4.70
5.	Glass pieces	240,742	3.88
6.	Plastic caps/lids	236,942	3.82
7.	Paper pieces	226,209	3.65
8.	Plastic beverage bottles	202,808	3.27
9.	Metal beverage cans	189,706	3.06
10.	Plastic straws	187,437	3.02
11.	Glass beverage bottles	185,597	2.99
12.	Metal bottle caps	146,829	2.37
<b>Total Dirty Dozen</b>		<b>3,501,357</b>	<b>56.47</b>

The most abundant debris item collected in the 1995 Cleanup, for the fifth consecutive year, were cigarette butts, which out numbered the second most abundant item (plastic pieces) by almost three to one. In the 1995 Cleanup, smokers were responsible for almost 15% of the trash collected on our beaches. While this represents a decrease from the 1994 level of 18.58%, the 913,051 cigarette butts collected would fill more than 45,652 packs of cigarettes. It is important to note that 87.66% of these butts were collected in the U.S. cleanup. Cigarette butts were also the top debris item in Bangladesh, Canada, Croatia, Ecuador, Egypt, France, Italy, Japan, Malta, Marshall Islands, Norway, and Spain.

The following items complete the list of the most abundant debris items reported in the 1995 Cleanup.

Rank	Debris Item	Total Number Reported	Percent of Total Debris Collected
13.	Plastic cups/utensils	128,222	2.07
14.	Foamed plastic cups	119,817	1.93
15.	Miscellaneous plastic bags	113,706	1.83
16.	Lumber pieces	102,005	1.64
17.	Plastic rope	97,661	1.57
18.	Clothing/cloth pieces	91,811	1.48
19.	Plastic trash bags	81,039	1.31
20.	Miscellaneous plastic bottles	73,168	1.18
<b>Total Top Twenty</b>		<b>4,309,92</b>	<b>69.48</b>

## CIGARETTE BUTTS

In 1990 cigarette butts were officially added to CMC's International Marine Debris Database as a line item within the plastics category, due to the large number of volunteers that were recording them by hand on their data cards. After being added to the data card as an individual debris item, cigarette butts have been the most common debris item reported for five consecutive years.

Why include them in the plastics category? Although they may be wrapped in paper, the filter portion of most cigarettes is made of cellulose acetate, which is a synthetic polymer and a form of plastic. Based on the definition of what constitutes a plastic substance in polymer science and the MARPOL Treaty, cigarette butts are considered to be plastic—not paper or cloth.

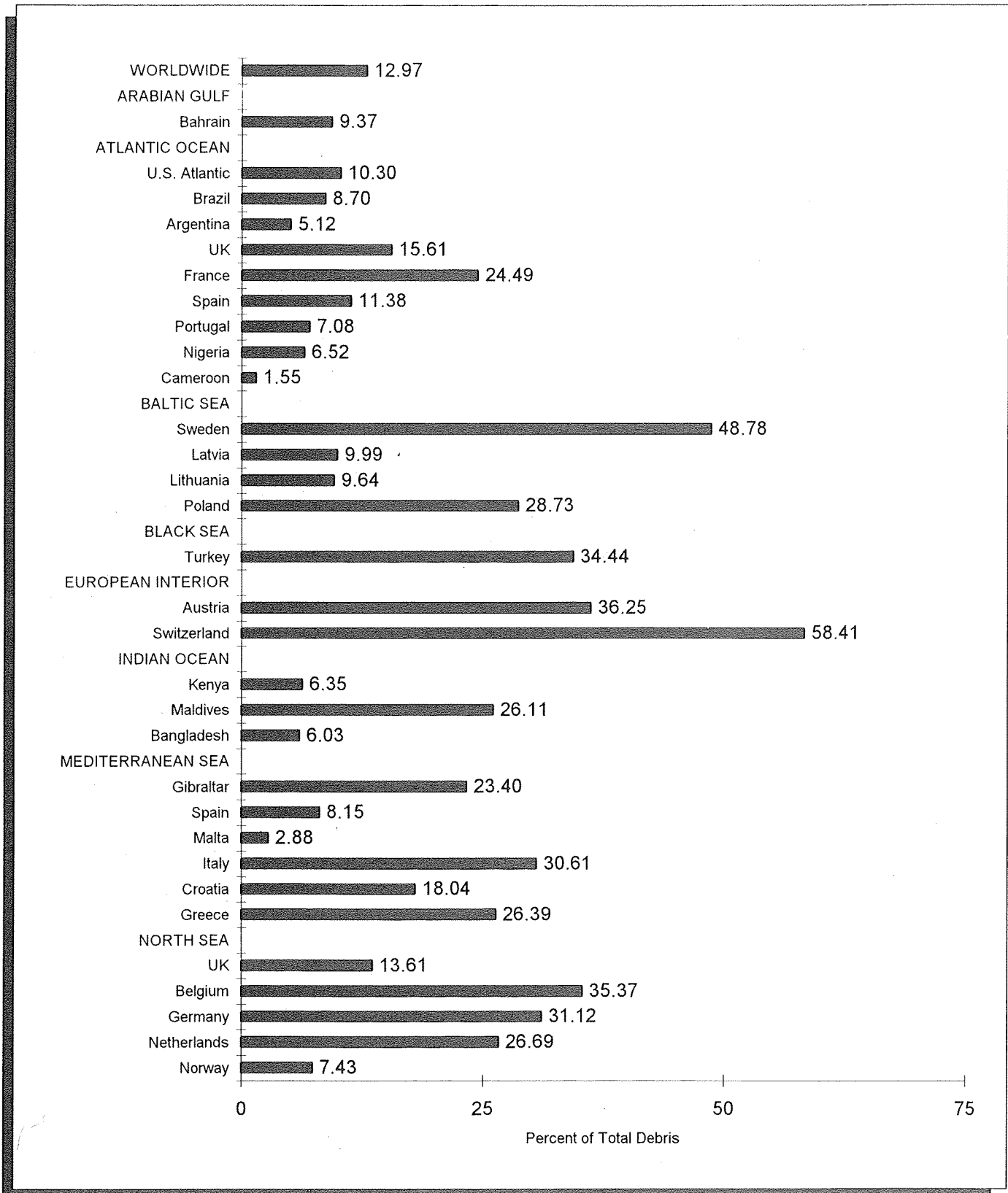
Where are the cigarette butts coming from? Not all cigarette butts found on the beach were left by beachgoers. Many butts likely arrive via stormwater, which carried them from streets and other waterways. Divers have also encountered them under the water's surface. Cigarette butts are not just an aesthetic problem. They have been found in the stomachs of birds, whales, and other marine creatures.

On a positive note, the 913,771 cigarette butts collected in the 1995 Cleanup represent a decrease of 3.86% from 1994. Hopefully, the public awareness campaigns created from the Cleanup and those supported by cigarette manufacturers and local cleanup programs will have a positive effect in reducing the number of cigarette butts citizens discard into the marine environment.

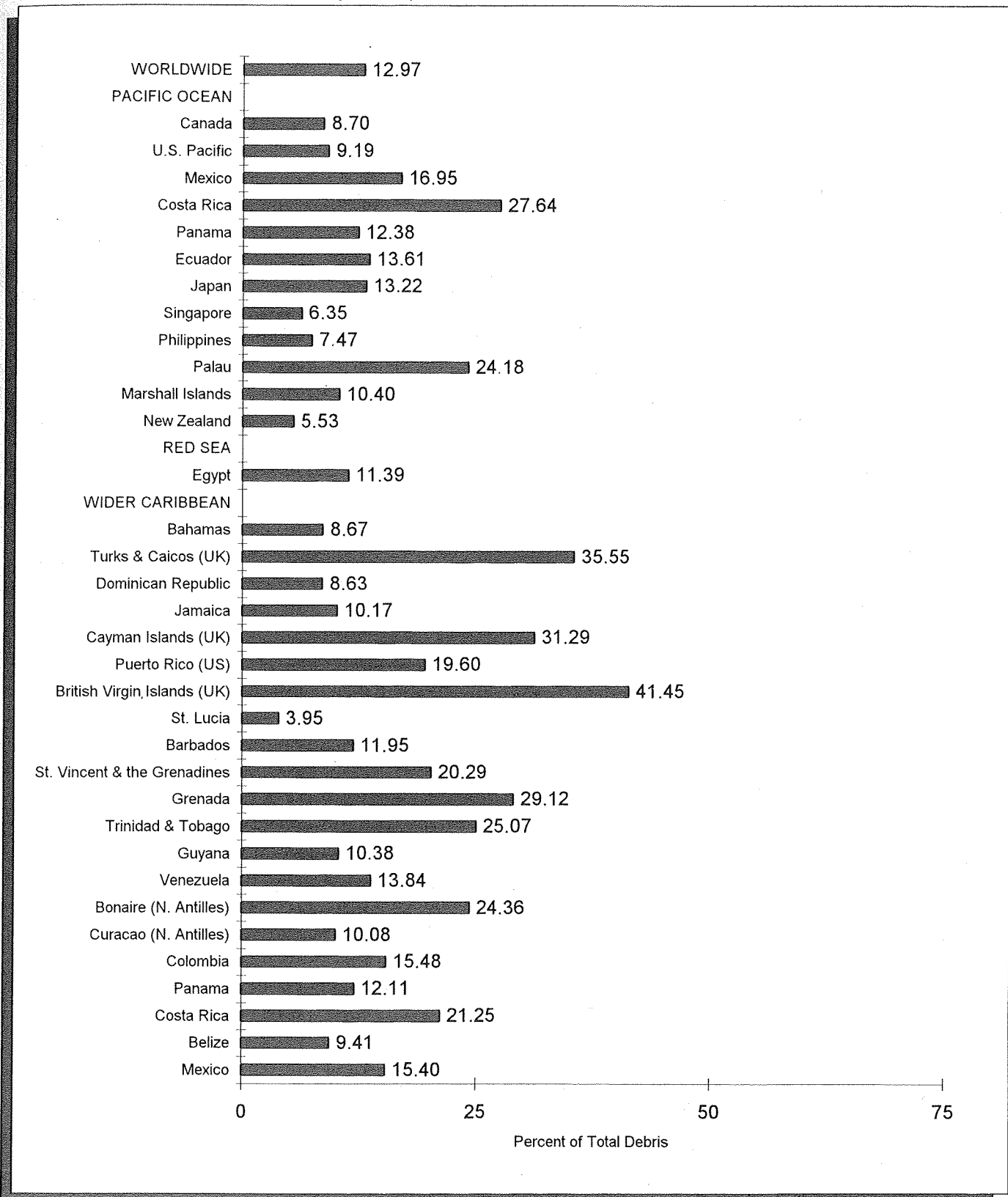
The inclusion of cigarette butts into the database presents a problem for interpreting the data of the Cleanup. The large number of recorded cigarette butts skews the data for interpretation. Thus, in calculating the percent composition of the debris, we have intentionally removed the cigarette butts from the percentages.



**FIGURE 4. Bottles and Associated Goods Reported from 1995 International Coastal Cleanups (Country-by-Country Analysis)**



**FIGURE 4. Bottles and Associated Goods Reported from 1995 International Coastal Cleanups (Country-by-Country Analysis), cont.**



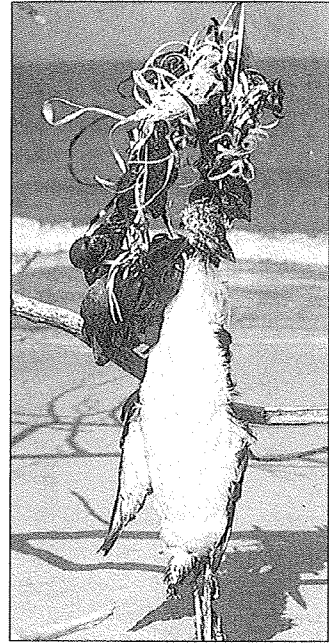
## IMPACTS OF MARINE DEBRIS ON WILDLIFE

As long as we allow debris to enter our waterways and the ocean, we will always find dead and injured aquatic creatures. Debris is a source of mortality and injury to at least 267 marine species including mammals, seabirds, sea turtles, fish, and shellfish, not to mention terrestrial animals such as a coyote found entangled and subsequently released from a fishing net during the cleanup in the United States. Any form of debris can be fatal to wildlife if it interferes with the animal's ability to eat or move around. And because many marine and aquatic animals apparently cannot distinguish their food from debris, or free themselves from entangling snares, it is solely **our** responsibility to keep dangerous items out of their environment.

The 1995 International Coastal Cleanup sounded an alarm about wildlife entanglement in debris. Cleanup volunteers reported a total of 125 incidents involving 179 animals entangled by marine debris (Table 3), including five mammals (a sea lion, a seal, a squirrel, a mole and a coyote), 68 birds (a cormorant, a mallard duck, a duck, a pigeon, 23 sea gulls, 1 herring gull, and 15 unidentified birds), five reptiles (an alligator, a gecko, a lizard, a turtle, and a snake), one amphibian (a salamander), and 60 assorted fish (a sea horse, a sheephead, a mackerel, a "bonnethead" and sand shark, a sting ray and two butterfly rays, two blowfish, and a "balloon fish," a flounder, an eel, six catfish, a gar, a striped bass, three trout, and 29 unidentified fish).

Of the 125 reported cases, 80 (64%) specifically listed plastic debris (monofilament line or fishing line, plastic bags, plastic netting, six-pack rings, plastic pieces, and plastic bottles) as the material entrapping the animals. Other materials included ribbons, strings, rope, fishing hooks and lures, cloth, sacks, crab and lobster traps, and wire. Of the 179 animals found entrapped during the 1995 International Coastal Cleanup, only 18 animals were still alive and could be successfully released. These observations were collected in just one, three-hour cleanup event. Imagine the potential number of animals that become entangled during the course of a month or year—just because we put garbage into the water.

The 1995 Cleanup results parallel findings of the U.S Marine Mammal Commission, which has recently conducted an extensive review of the interactions of marine debris and the ocean. The debris items found to most threaten marine life are net fragments and monofilament fishing line from commercial and recreational fishing boats, and rope and strapping bands originating from any type of vessel. Plastic pellets and small pieces of processed plastic are the most common debris found in the stomachs of birds, while sea turtles, toothed whales, and manatees ingest plastic bags and small plastic pieces (Table 4).





**TABLE 3. Wildlife Affected by Debris Reported During 1995 International Coastal Cleanups**

COUNTRY	ANIMAL	DEBRIS ITEMS	COMMENTS
Bahrain	seagulls (2) octopus (5)	net net	entangled trapped, dead
Belize	fish	cloth	entangled, alive
Brazil	crab	monofilament line	entangled
Canada	sea sponge	fishing line	entangled
Kenya	fish crabs (3)	netting plastic bottle	entangled, dead entangled, allive
Mexico	crab fan coral	fishing net fishing line	entangled entangled
Panama	fish	sack	entangled, dead
Singapore	fish fish salamanders	string fishing net plastic sheet	entangled entangled, dead entangled
United States	bird gull 2 butterfly rays seagull littorina snails fish bird gulls(2) sea lion birds(4) fish trout(3) crab big bird bird bird fish seagull birds(3) bird cormorant seagulls(2)	wire plastic net fish lines six-pack holder plastic bag plastic fishing net fishing line fishing lure rope fishing line plastic bag plastic bag fishing line chain link fence plastic bag string condom foamed plastic fishing line fishing line debris	entangled entangled entangled entangled inside, released entangled entangled entangled in jaw entangled entangled inside inside entangled entangled entangled entangled entangled entangled entangled entangled entangled entangled

**TABLE 3. Wildlife Affected by Debris Reported During 1995 International Coastal Cleanups, cont.**

COUNTRY	ANIMAL	DEBRIS ITEMS	COMMENTS
United States, cont.	seagull	fishing wire	entangled
	seagull	twine	entangled
	crab	net	entangled
	mole	tarp	entangled
	seagull	fishing line	entangled
	seahorse	fishing line	entangled, released
	fish	mono. line	entangled
	fish	net	entangled, released
	unkn. animal	bag	entangled
	fish	rope	entangled
	horseshoe crab	monofilament line	entangled, released
	bird	barb wire & six-pack holder	entangled
	bonnethead shark	plastic bag	entangled
	bird	wire	entangled
	crab	nylon line	entangled
	catfish	six-pack holder	entangled
	fish	wire	entangled
	fish	fishing lines & nets	entangled
	alligator	trap line	hooked by
	catfish	six-pack holder	entangled
	coral	fishing line	covered
	hard coral	trap	covered
	fish	plastic bag	entangled
	gecko	fishing line	entangled
	lizard	plastic bottle	trapped
	blowfish(2)	fishing line	entangled
	black eel	fishing line	entangled
	balloon fish	fish hook	hooked by
	seagull	balloon	entangled
	red fish	poly rope	entangled
	catfish	net	entangled
	seagull	rope	entangled
	starfish	string	entangled
	crabs(13)	string	entangled
	seagull	monofilament line	entangled
	seal	rope	entangled
	hardhead catfish	nylon string	entangled
	fish	fishing line	entangled
	bird	sand net fence	entangled
	catfish	plastic bag	entangled
	catfish	six-pack ring	entangled

**TABLE 3. Wildlife Affected by Debris Reported During 1995 International Coastal Cleanups, cont.**

COUNTRY	ANIMAL	DEBRIS ITEMS	COMMENTS
United States, cont.	mallard duck	fishing line	entangled, released
	seagull	string	entangled
	pigeon	plastic bottle	inside
	bird	string	entangled
	birds(2)	garbage	entangled
	bird	fishing line	entangled
	squirrel	plastic rope	entangled
	seagulls(2)	lure	entangled
	seagulls(5)	fishing line	entangled
	horseshoe crab	fishing line	entangled
	seagull	monofilament line	entangled, released
	small fish(5)	plastic bag	inside, released
	striped bass	rope	entangled
	bird	fishing line	entangled
	seagull	balloon string	entangled
	seagull	plastic	entangled
	fish(5)	fishing line	entangled
	fish(4)	net	entangled
	crab	fishing line	entangled
	sheephead fish	fishing line	entangled
	birds(3)	fishing line	entangled
	turtle	fishing hook	hooked
	gar fish	crab net	entangled, released
	seagull	plastic	entangled
	miniature crab	string	entangled
	duck	twine	entangled
	seagull	plastic mesh net	entangled
	seagull	string	entangled
	birds(2)	rope	entangled
	bird	fishing line	entangled
	seagull	fishing lure	entangled
	seagull	rope	entangled
	horseshoe crab(2)	fishing line	entangled
	herring gull	plastic bag	entangled
	seagull	plastic	entangled
	sand shark	fishing line	entangled
	seagull	fishing line	entangled
	eel	fishing line	entangled
	stingray	rubbish	entangled
	mackerel	fishing line	entangled
fish(5)	six-pack ring	entangled	
bird	balloon bouquet	entangled	

**TABLE 3. Wildlife Affected by Debris Reported During 1995 International Coastal Cleanups, cont.**

COUNTRY	ANIMAL	DEBRIS ITEMS	COMMENTS
United States, cont.	flounder	bag	inside, released
	crab	drink carton	inside
	coyote	fish net	entangled, alive
	bird	fishing line	entangled
	snake	plastic net	entangled
	bird	fishing line	entangled

**TABLE 4. Number and Percentage of Marine Species Worldwide with Documented Marine Debris Entanglement and Ingestion Records, by Species Group (1995)**

Species Group	Total Number of Species Worldwide	Species With Entanglement Records	Species With Ingestion Records	Species With One or Both Types of Records
		No. (%)	No. (%)	No. (%)
<b>Sea Turtles</b>	7	6 (86%)	6 (86%)	6 (86%)
<b>Seabirds</b>	312	51 (16%)	111 (36%)	138 (44%)
Penguins	16	6 (38%)	1 (6%)	6 (38%)
Grebbs	19	2 (10%)	0 (0%)	2 (10%)
Albatrosses, Petrels, Shearwaters	99	10 (10%)	62 (63%)	63 (64%)
Pelicans, Boobies, Gannets, Cormorants, Frigatebirds, Tropicbirds	51	11 (22%)	8 (16%)	17 (33%)
Shorebirds, Skuas, Gulls, Terns, Auks	122	22 (18%)	40 (33%)	50 (41%)
<b>Other Birds</b>	—	5 —	0 —	5 —
<b>Marine Mammals</b>	115	32 (28%)	26 (23%)	49 (43%)
Baleen Whales	10	6 (60%)	2 (20%)	6 (60%)
Toothed Whales	65	5 (8%)	21 (32%)	22 (34%)
Fur Seals, Sea Lions	14	11 (79%)	1 (7%)	11 (79%)
True Seals	19	8 (42%)	1 (5%)	8 (42%)
Manatees, Dugongs	4	1 (25%)	0 (0%)	1 (25%)
Sea Otters	1	1 (100%)	0 (0%)	1 (100%)
<b>Fish</b>	—	34 —	33 —	60 —
<b>Crustaceans</b>	—	8 —	0 —	8 —
<b>Squid</b>	—	0 —	1 —	1 —
<b>SPECIES TOTAL</b>	—	136 —	177 —	267 —

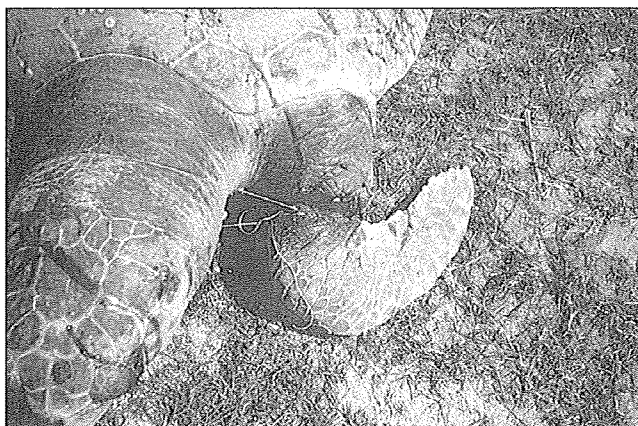
*from Marine Mammal Commission 1995 Annual Report to Congress, February 29, 1996. Impacts of Marine Debris, D.W. Laist*

## Monofilament Fishing Line, Marine Debris, and Animal Entanglements

The introduction of plastics into the manufacture of fishing gear has been one of the most important technological advances for the industry. Not only are plastic nets and lines easier to handle, they are also stronger, more durable, and more economical than cotton, hemp, and other natural fibers used in the past. And when it becomes trash, it is also more of a problem. Fishing gear can become lost, or derelict, due to the weather, bottom snags, ship collisions, fishing methods, human error, vandalism, gear failure, and deliberate discards.

For marine mammals, sea turtles, birds, fish, and shell fish discarded monofilament fishing line can be lethal. Once entangled in the line, ensnared animals are usually unable to free themselves and can eventually become exhausted and drown; the strong yet thin line can cause abrasions that become infected; or the entangling line could impair the animal's ability to catch food, avoid predators, or may become caught on branches, power lines, or submerged structures.

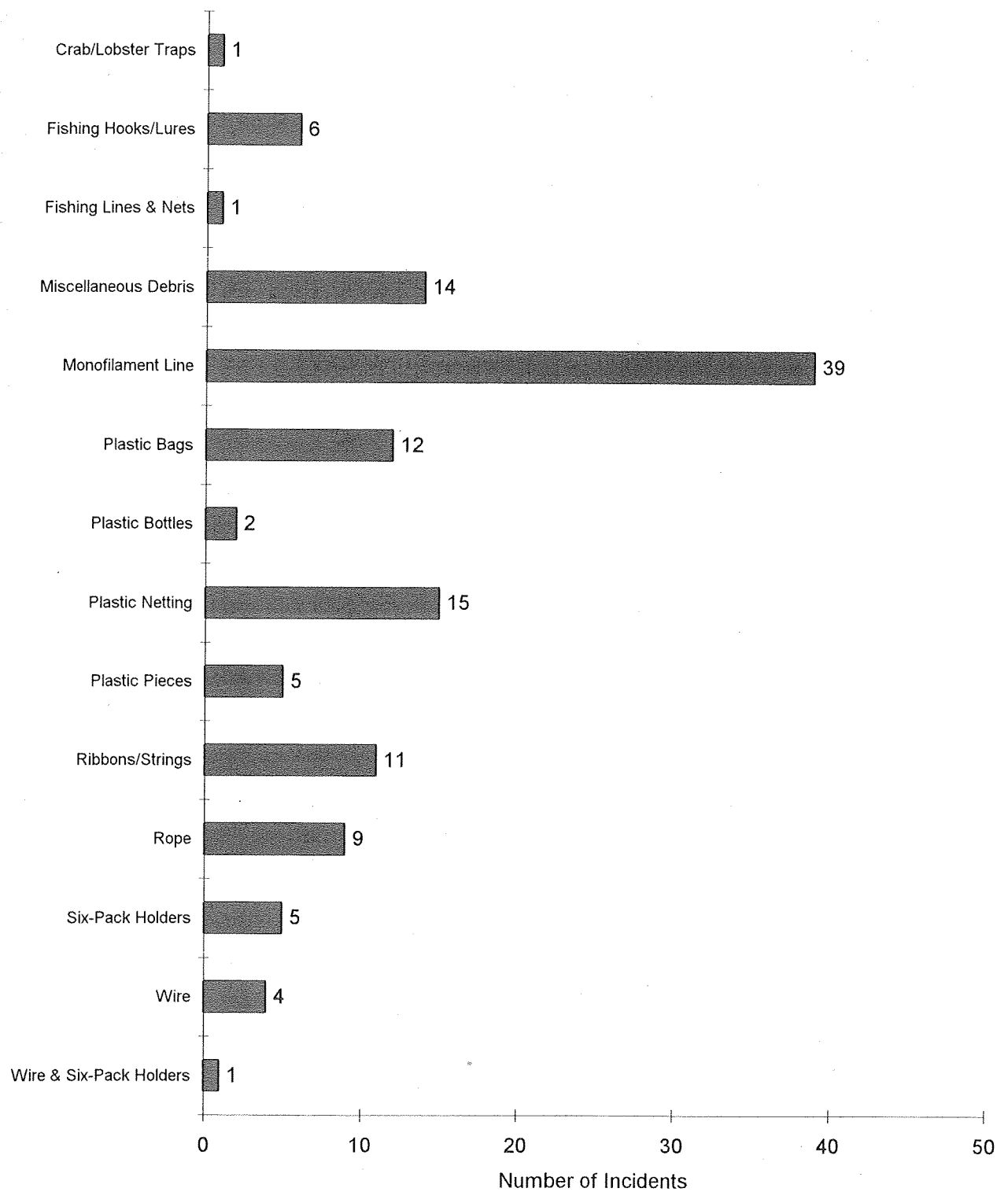
Statistics from the International Coastal Cleanup document the impacts of improperly discarded fishing line and other debris types. Since 1989, monofilament debris has been the leading cause of animal entanglements: of the 647 incidents recorded since 1989, 227 (35%) have been attributable to monofilament line. Results from the 1995 Cleanup show that 53,861 pieces of plastic fishing line and plastic floats and lures were collected by volunteers. The 1995 entanglement records show that monofilament line was responsible for 39 entanglement incidents, representing 31.20% of the reported 125 entanglement incidents (Figure 5). It should be noted that 36 of the monofilament line incidents were recorded in the United States.



*Monofilament line was most likely the cause of this sea turtle's death.*

A crisis is upon us and immediate action is needed. Manufacturers, distributors, and users of monofilament line must take action to lessen the incidence of animal entanglement in monofilament line. Berkely, a leading manufacturer of fishing line in the United States, has created a model recycling program in which consumers are urged to take their used line to convenient drop-off collection bins to be recycled into new line. This type of effort to reduce the prevalence of monofilament debris in the marine environment, along with explorations into the feasibility of degradable fishing line, increased citizen education, or other solutions, needs to be encouraged and expanded.

**FIGURE 5. Entangling Debris Reported from 1995 International Coastal Cleanups**



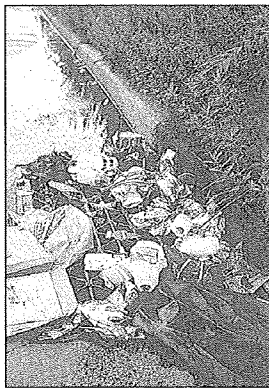
## SOURCES OF MARINE DEBRIS

There is hardly any aquatic habitat that is not affected by debris. The sources of debris are traditionally classified into two categories: ocean-based and land-based. Although identifying the source of individual debris items can be quite difficult due to the broad range of uses for many materials, CMC has developed a set of 28 "indicator items" that correspond to ocean-based and land-based activities to help trace the origin of the debris (Table 5 and Figure 6).

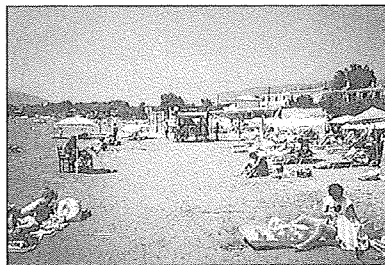
Sources of **ocean-based** debris have been associated with recreational fishing and boating, commercial fishing, operational wastes, and galley wastes. Ocean-going vessels, from the smallest boats to merchant/container ships, are identified as the sources of ocean-based marine debris, as are offshore drilling platforms for oil and gas. **Land-based** sources of debris have been identified in sewage-associated wastes and medical wastes. Land-based debris is carried into waterways and into the ocean via storm drains, sewers, creeks, streams, and rivers. Another land-based source are beachgoers who leave the remnants of their visit to the beach in the sand. Although we point to boats, sewer systems, and storm drains as sources, people are the ultimate problem. Someone had to throw the trash overboard, onto the beach, down the toilet, or into the storm drain.

Tracking debris is a complicated process. There may be several possibilities for how a specific type of debris ends up in a lake, a river, or the ocean. Regardless of how it got there, we have the power to prevent it from happening in the first place. Proper waste management and disposal are essential to solving the marine debris problem. In addition, citizen awareness and appreciation for aquatic environments will help change our behavior, thus reducing the amount of debris we release into the environment.

### Where Ocean Debris Comes From



*Trash carried via storm drains*



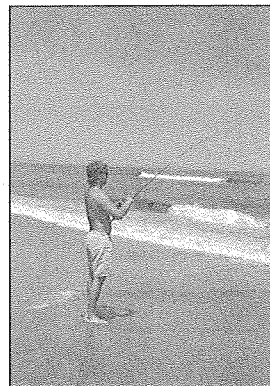
*beachgoers*



*ships galleys*



*offshore drilling operations*



*recreational fishers and boaters*



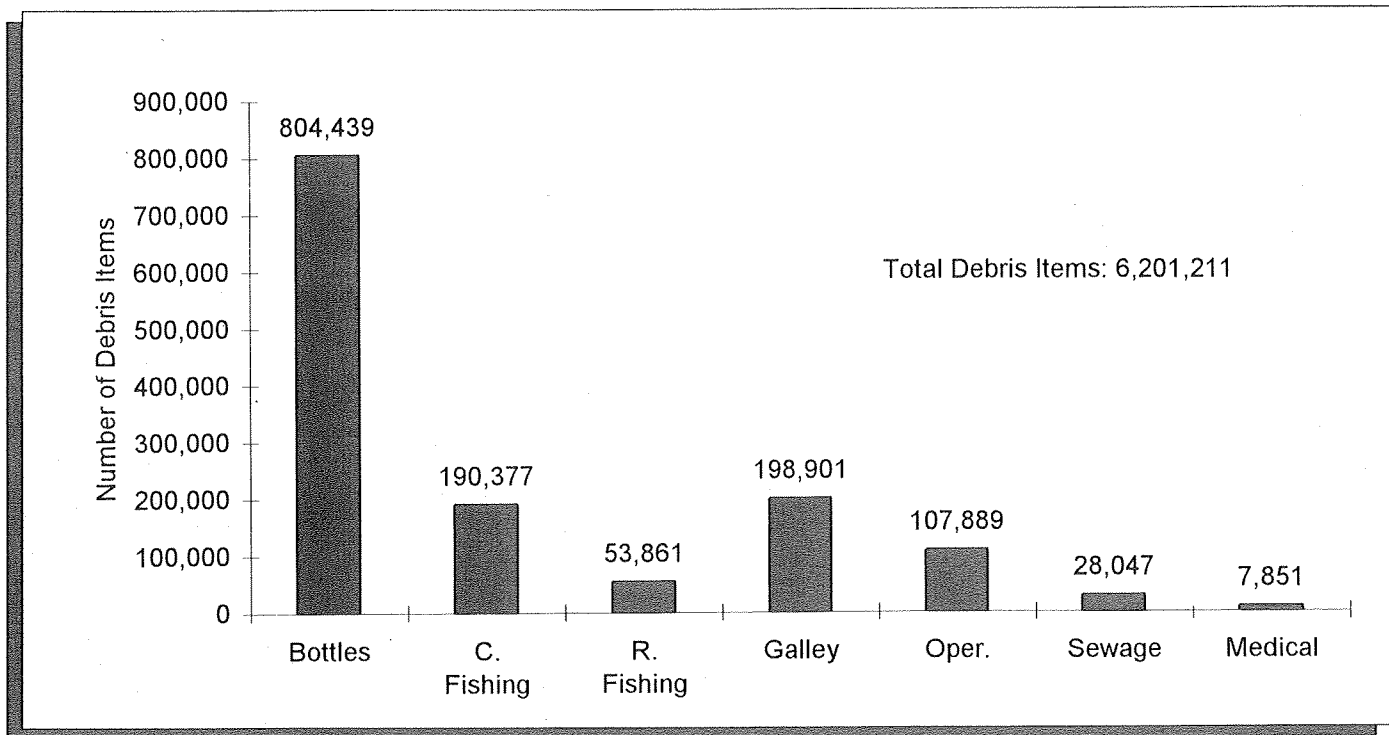
*commercial fishers and merchant ships*



**TABLE 5. Categories and Quantities of Indicator Items Reported During 1995 International Coastal Cleanups**

Category	Indicator Items	Total Number Reported (% of Total Debris Collected)	
Recreational Fishing/ Boating Wastes	Plastic fishing line	35,874	
	Plastic floats/lures	17,987	
	<b>Subtotal</b>	53,861	(0.87%)
Commercial Fishing Wastes	Plastic rope	97,661	
	Plastic fishing nets	17,376	
	Rubber gloves	17,103	
	Foamed plastic buoys	21,010	
	Plastic light sticks	16,371	
	Plastic salt bags	10,860	
	Metal crab/fish traps	5,277	
	Wooden crab/lobster traps	4,719	
<b>Subtotal</b>	190,377	(3.07%)	
Operational Wastes	Plastic strapping bands	28,791	
	Write-protection rings	9,068	
	Glass light bulbs	10,343	
	Plastic pipe thread protectors	5,958	
	Plastic sheeting longer than 2 feet	9,710	
	Wooden pallets	31,168	
	Fluorescent light tubes	5,609	
	Wooden crates	4,704	
	Plastic hard hats	2,539	
<b>Subtotal</b>	107,889	(1.74%)	
Galley Wastes	Plastic trash bags	81,039	
	Plastic milk/water gallon jugs	40,558	
	Plastic bleach/cleaner bottles	39,017	
	Foamed plastic meat trays	17,340	
	Plastic vegetable sacks	11,801	
	Foamed plastic egg cartons	9,146	
<b>Subtotal</b>	198,901	(3.21%)	
Sewage Associated Wastes	Plastic tampon applicators	18,042	
	Rubber condoms	10,005	
	<b>Subtotal</b>	28,047	(0.45%)
Medical Waste	Plastic syringes	7,851	(0.13%)
<b>Total Number of Indicator Items</b>		<b>586,926</b>	<b>(9.46%)</b>

**FIGURE 6. Number of Debris Items from 1995 International Coastal Cleanups Associated with Identifiable Types and Sources of Debris**



## OCEAN-BASED SOURCES OF DEBRIS

### • Recreational Fishing and Boating Wastes

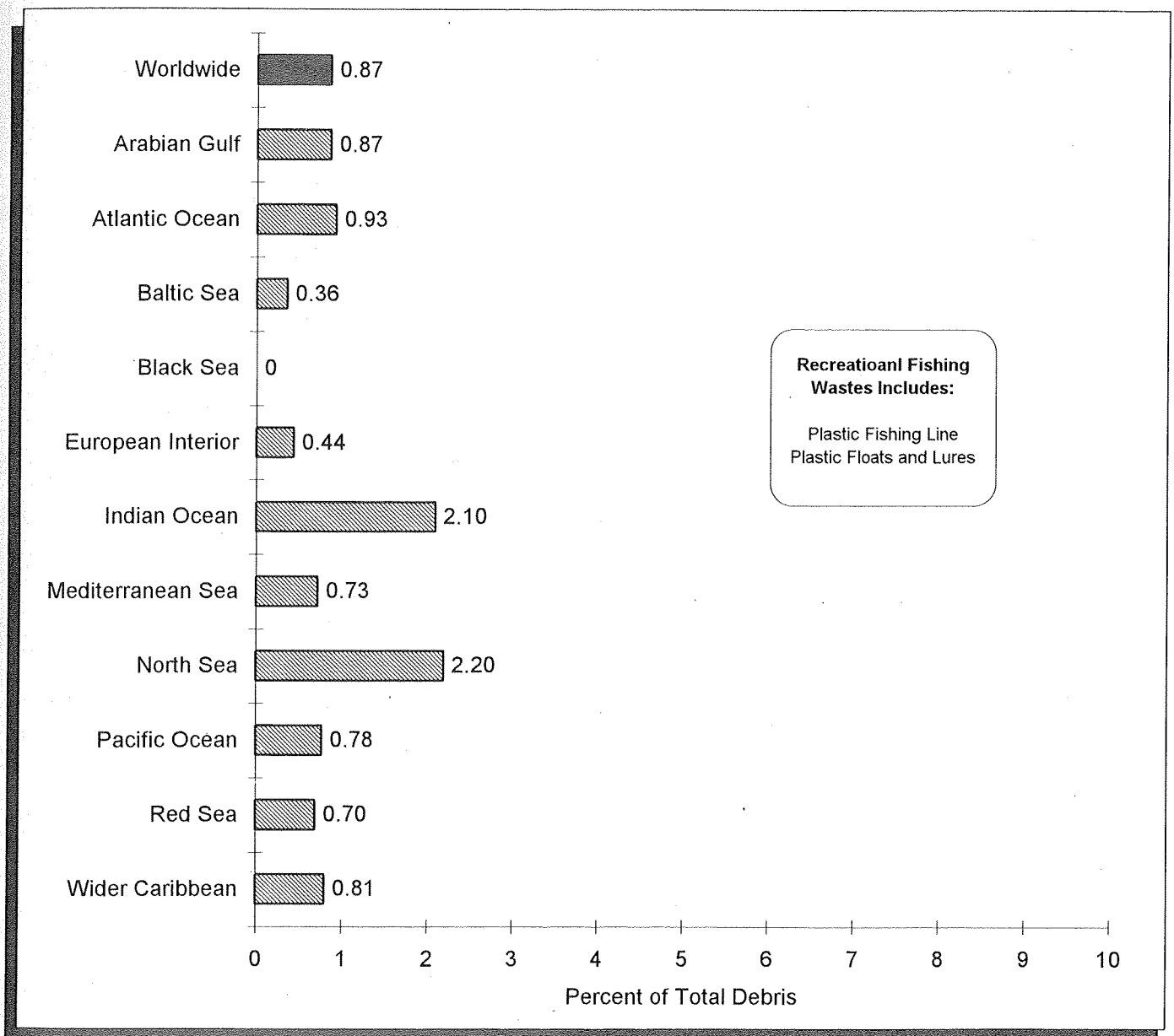
Recreational fishers and boaters use a variety of disposable items, from food packaging to bait and tackle supplies. Some boaters and fishers are aware of MARPOL regulations prohibiting the disposal of plastics in the ocean and all types of garbage in rivers, lakes, and bays; others are not. The two specific indicator items used to identify recreational fishers who violate the law are plastic (monofilament) fishing line and plastic floats and lures. We recognize that in some cases monofilament line can be accidentally lost, but some is also intentionally discarded. Blatant dumping overboard of these materials is a MARPOL violation. But, as with most regulations of this nature, intent and actions are closely associated with how well the regulations are enforced.

In the 1995 Cleanup, 0.87% of all the debris collected worldwide was attributed to recreational fishing and boating wastes (Figure 7), which represents an increase from the 1994 level of 0.72%. Regional analysis reveals that particular problems in the North Sea, Indian and Atlantic Oceans, and Arabian Gulf (Figure 8). The highest level was observed in the North Sea with 2.20%, followed closely by the Indian Ocean (2.10%). In a country-by-country analysis, the highest levels were recorded in Sweden, where 7.32% of their total debris was attributed to recreational fishing and boating. The next highest level was in Belgium with 5.36%, followed by Curaçao (Netherlands

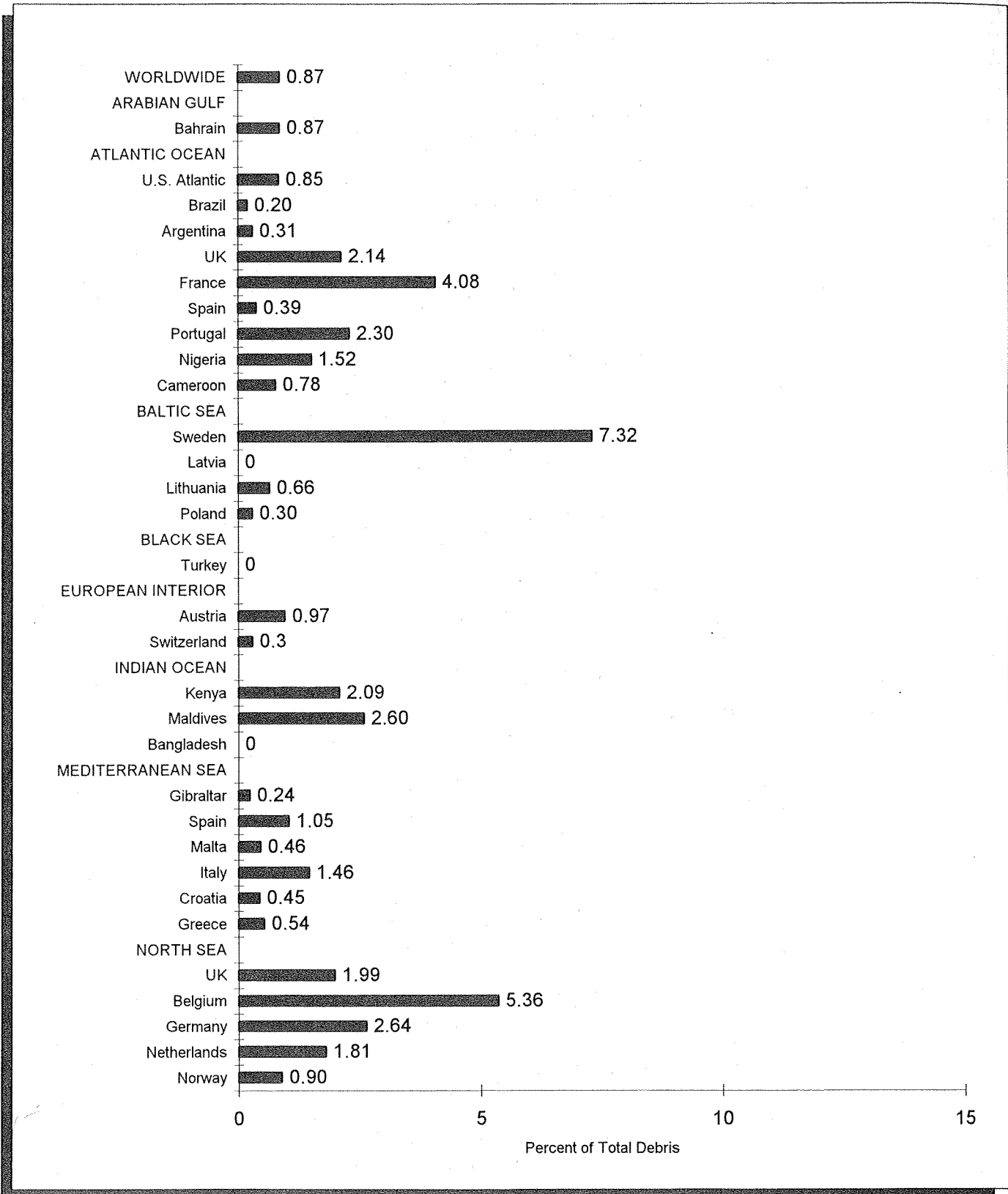


Antilles) with 5.14% and France (4.08%). Cleanups in Sweden, Belgium, and France were underwater cleanups. No recreational fishing debris was recorded in Latvia, Turkey, Bangladesh, Grenada, or Venezuela. In all, 35,874 pieces of fishing (monofilament) line and 17,987 floats and lures were collected by volunteers. Monofilament line is one the most dangerous forms of debris in the aquatic environment. Either in strands or combined with lures and floats, it becomes a deathtrap to unsuspecting fish, birds, turtles, and marine mammals (see discussion on page 26). Fishing line can also create problems when it gets wrapped around boat propellers.

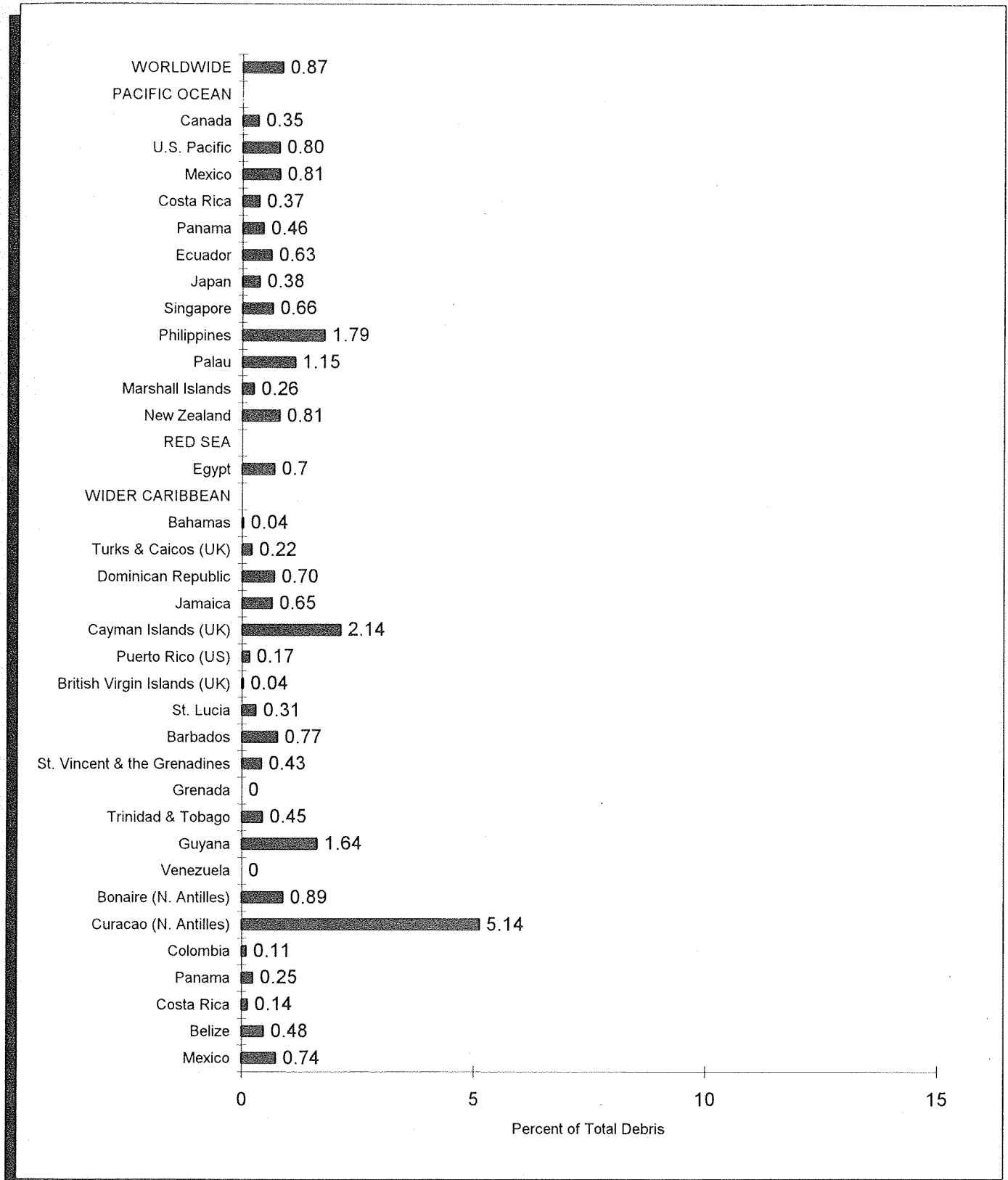
**FIGURE 7. Recreational Fishing and Boating Wastes Reported from 1995 International Coastal Cleanups (Regional Analysis)**



**FIGURE 8. Recreational Fishing and Boating Wastes Reported from 1995 International Coastal Cleanups (Country-by-Country Analysis)**



**FIGURE 8. Recreational Fishing and Boating Wastes Reported from 1995 International Coastal Cleanups (Country-by-Country Analysis), cont.**

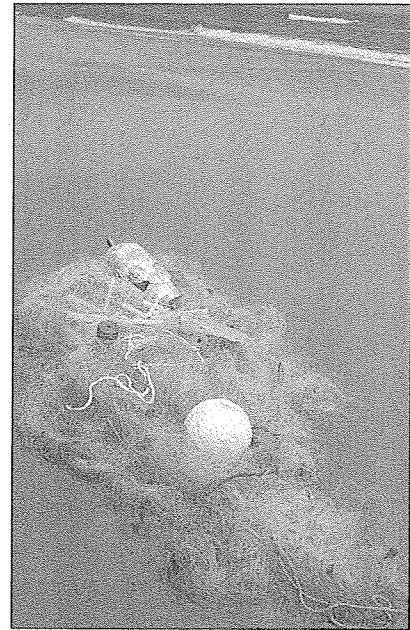


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- **Commercial Fishing Wastes**

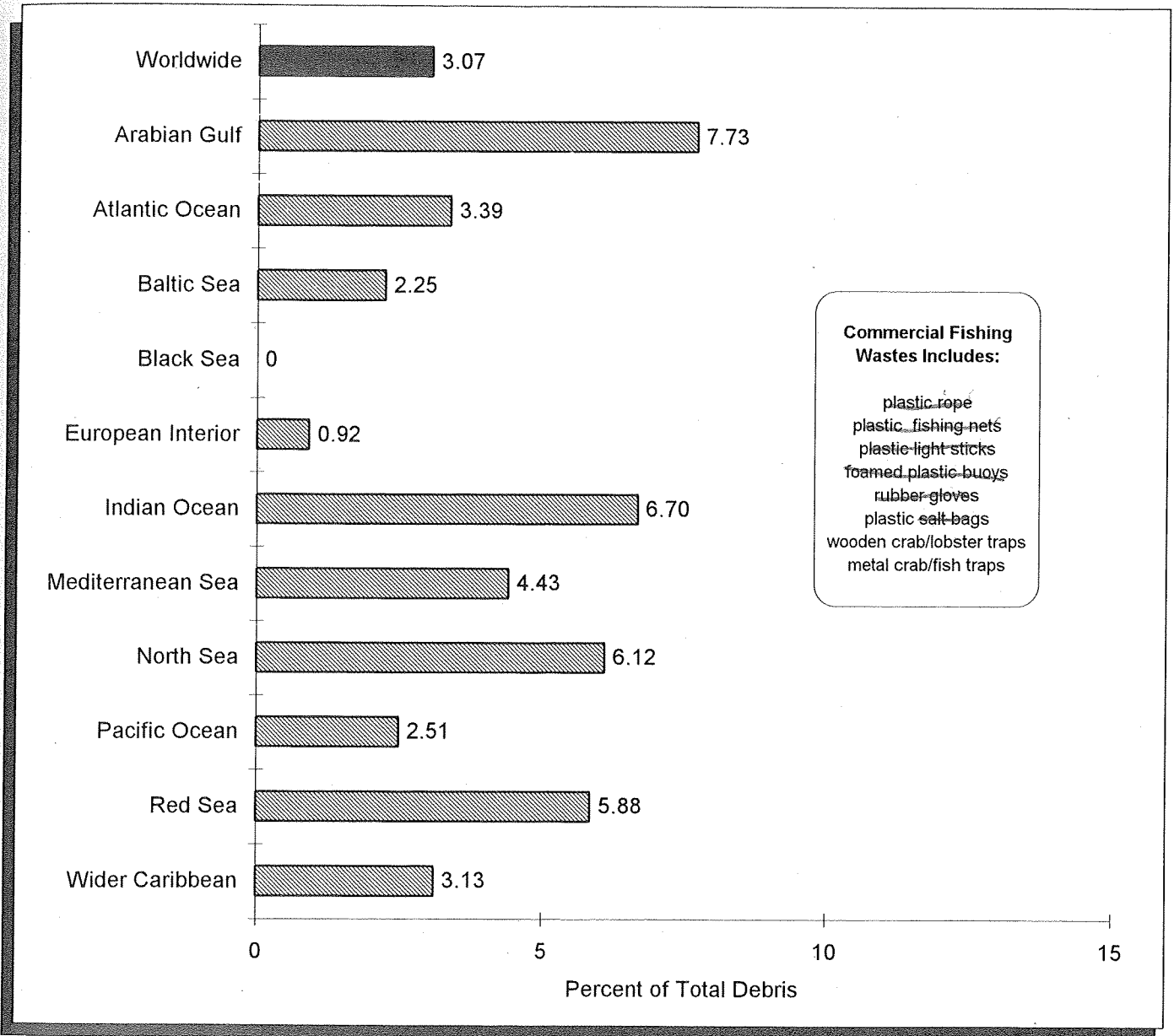
To track commercial fishing wastes, several indicator items have been identified, including plastic rope, plastic (cyalume) light sticks, foamed plastic buoys, rubber gloves, plastic fishing nets, plastic salt bags, metal crab or fish traps, and wooden crab or lobster traps. Each item tells a part of the story of what happens aboard different types of commercial fishing vessels, and how fishing crews conduct their business.

The presence of plastic rope, nets, and foamed buoys along with metal and wooden crab, fish, or lobster traps, plastic light sticks, and rubber gloves indicate commercial fishers who lost or tossed overboard the tools of their trade. In some cases, especially with traps and their marking buoys, fishermen may abandon old traps instead of hauling them out of the water and taking them back to the dock for disposal. Some working traps and buoys may be destroyed by storms or other boats, and as a result are irretrievable. Longline fishers may discard plastic light sticks. Rubber gloves and salt bags may be tossed after being used to sort the catch. Regardless of how these materials were lost or discarded, as debris they are a hazard. The 1995 Cleanup pulled in 97,661 pieces of plastic rope, 17,376 fishing nets, 5,277 metal crab/fish traps, and 4,719 wooden crab/lobster traps that were discarded into the environment and will no longer stand as a threat to marine life.

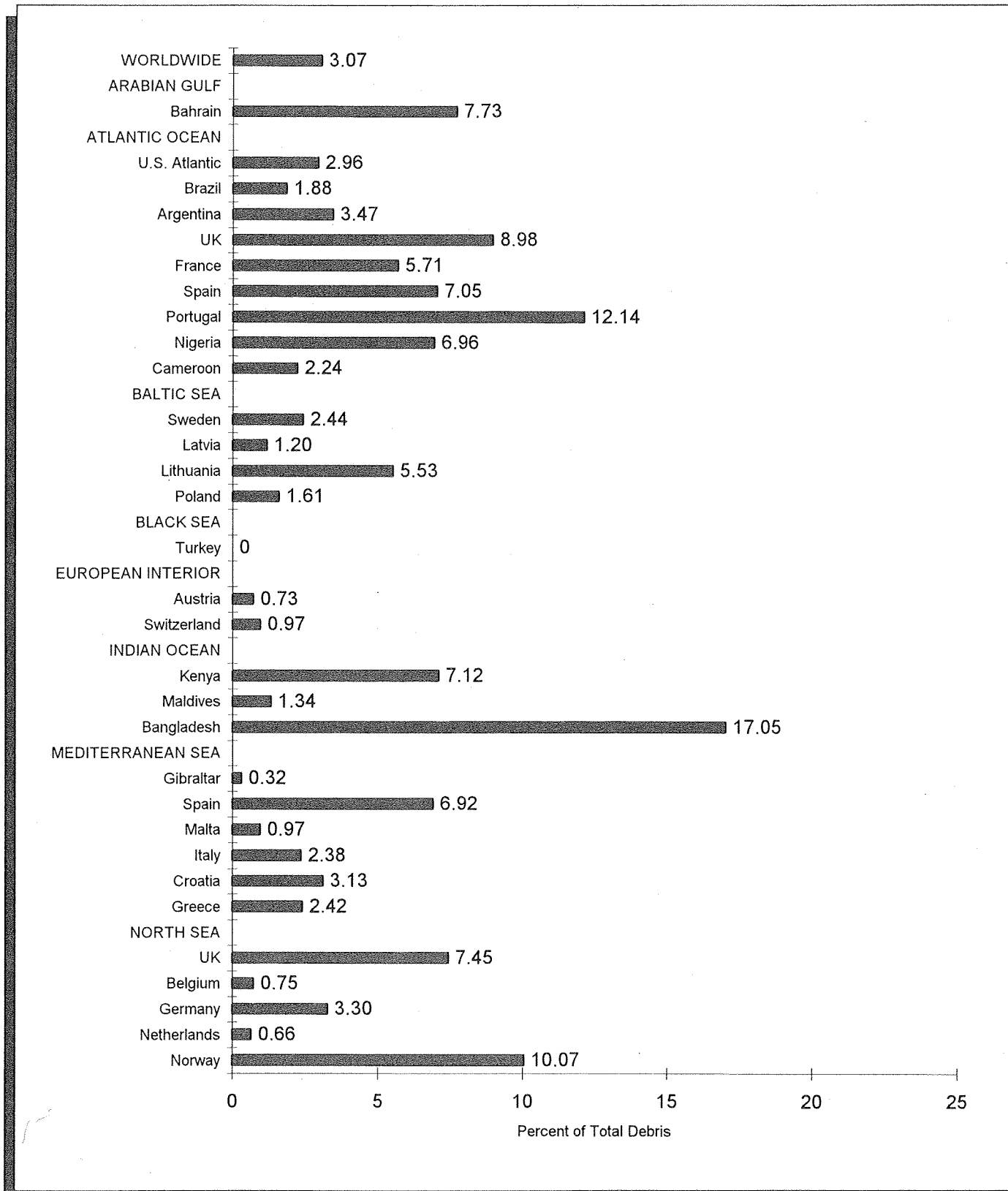


Analysis of the 1995 Cleanup data shows an increase in the worldwide level of marine debris attributed to commercial fishing, from 2.86% in 1994 to 3.07% in 1995. Regionally, the highest levels of marine debris related to commercial fishing activities were in the Arabian Gulf with 7.73%, followed by the Indian Ocean at 6.70% and North Sea at 6.12% (Figure 9). The lowest levels were recorded in the European Interior (0.92%) and the Black Sea where no commercial fishing wastes were recorded. In the country analysis, Bangladesh reported the highest level with 17.05%, with Portugal (12.14%) and Norway (10.07%) also at the high end (Figure 10). The lowest reported level (0.00%) was in Turkey.

**FIGURE 9. Commercial Fishing Wastes Reported from 1995 International Coastal Cleanups (Regional Analysis)**

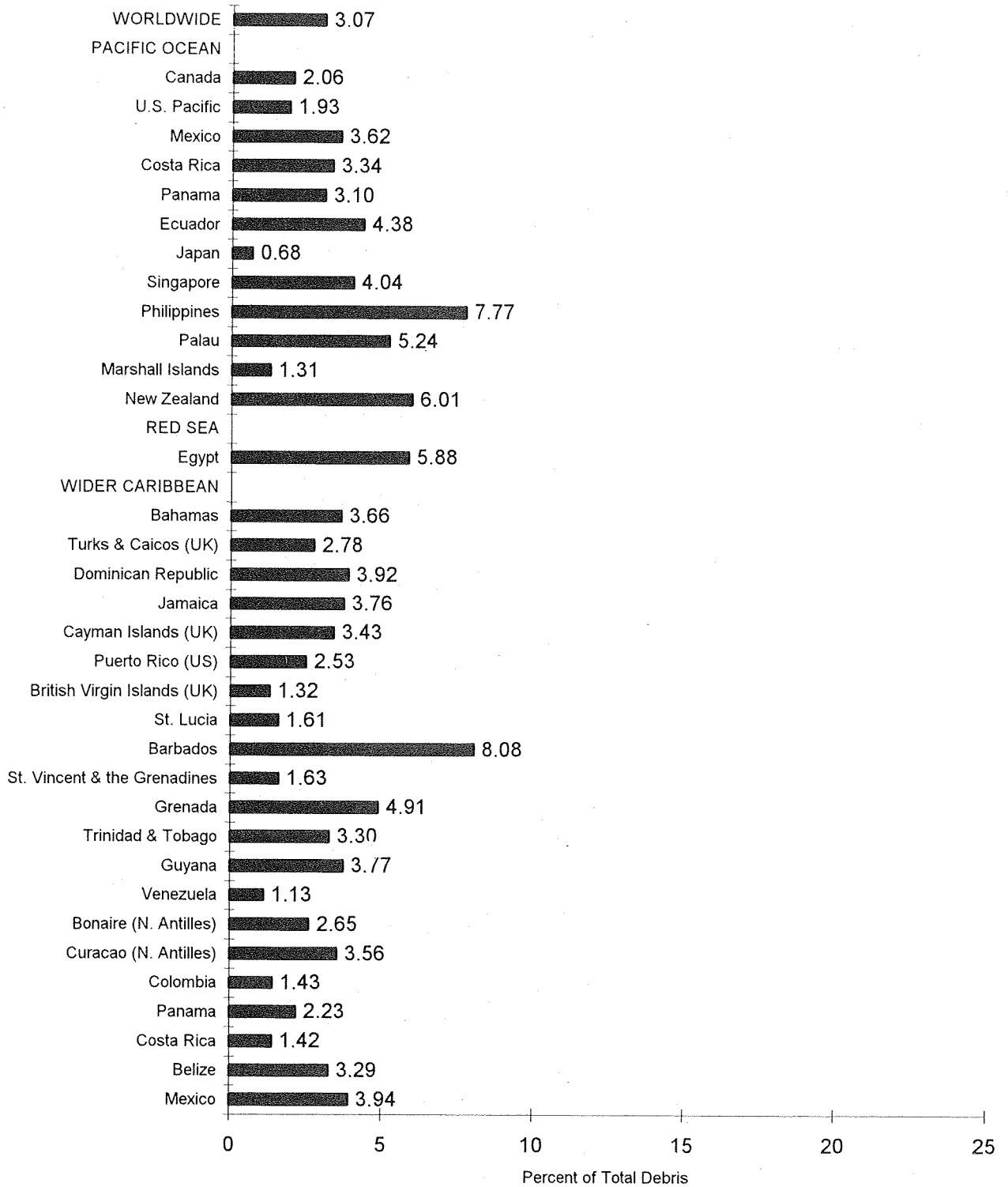


**FIGURE 10. Commercial Fishing Wastes Reported from 1995 International Coastal Cleanups (Country-by-Country Analysis)**





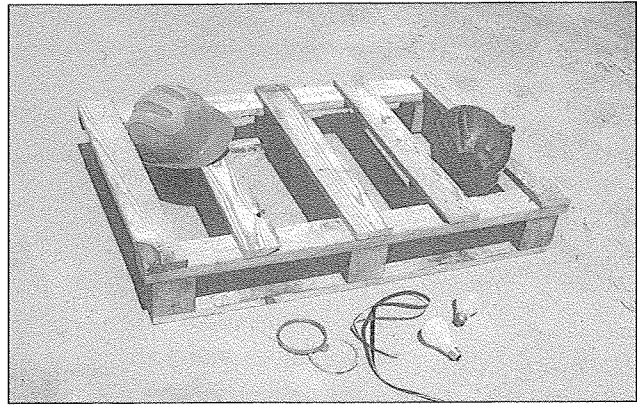
**FIGURE 10. Commercial Fishing Wastes Reported from 1995 International Coastal Cleanups (Country-by-Country Analysis), cont.**



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- **Operational Wastes**

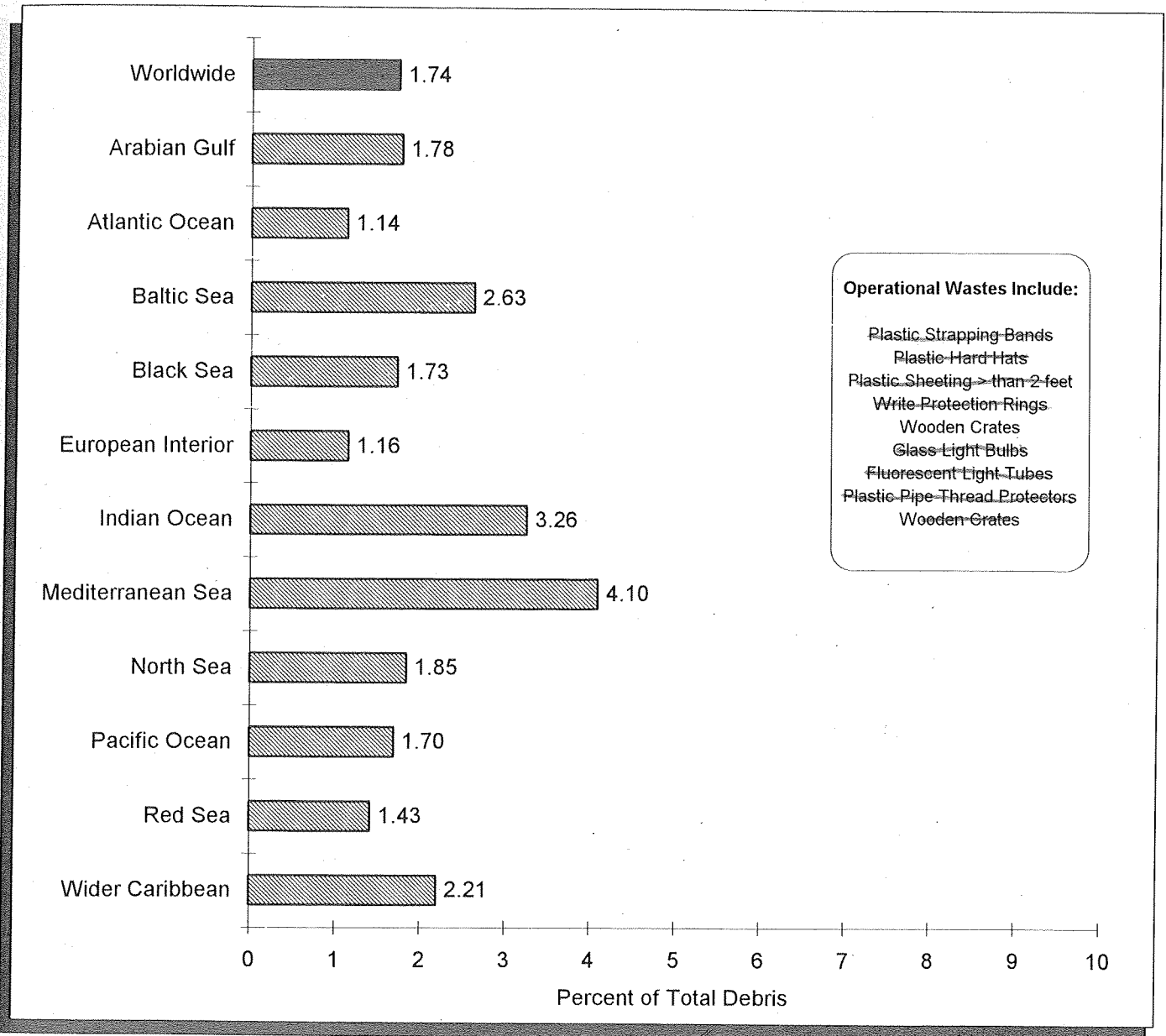
Packaging is a significant factor in the sale and transport of shipboard materials. Unfortunately, most packaging has little or no use once it has been removed from the product. Aboard a ship or on a drilling platform, these materials occupy valuable space. In the past, the traditional way to handle these materials was to bind them up, weigh them down, and dump them overboard. The passage of MARPOL Annex V should have put a stop to this practice, but the 107,889 pieces of debris collected in the 1995 Cleanup and identified as operational wastes from ships reveal that packaging materials are still being dumped, tossed, and allowed to "blow" into the water.



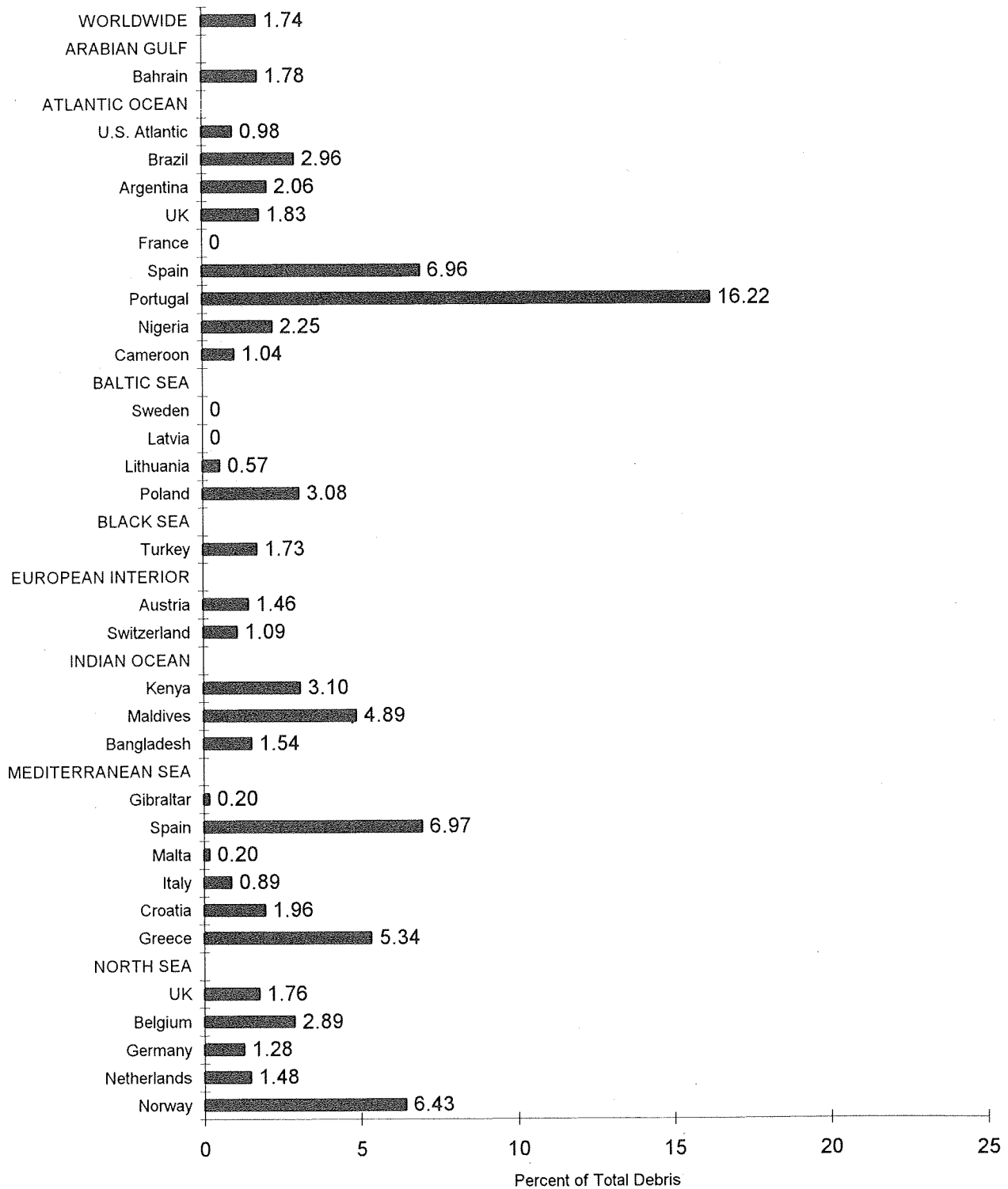
Specific items can be traced to offshore operations, such as petroleum industry activities or cargo transport. Wooden pallets, plastic strapping bands, glass (incandescent) light bulbs, fluorescent light tubes, write-protection rings (from computer tape reels), plastic pipe thread protectors, plastic sheeting (longer than two feet), plastic hard hats, and wooden crates are indicators of operational wastes. In the 1995 Cleanup 28,791 strapping bands, 31,168 wooden pallets, and 2,539 hard hats washed ashore with 10,343 glass light bulbs, 9,710 sheets of plastic, and 4,704 wooden crates.

In the 1995 Cleanup, 1.74% of all the debris collected worldwide was operational-type waste (Figure 11). On the regional level, the highest concentrations of operational wastes were recorded in the Mediterranean Sea and Indian Ocean with 4.10% and 3.26%, respectively. The Baltic Sea (2.63%), Wider Caribbean (2.21%), and North Sea at 1.85% also exceeded the worldwide percentage of operational wastes. The lowest level was found in the Atlantic Ocean (1.14%). Examination of the regional data shows a corresponding pattern of offshore activities related to shipping, oil rigs, and gas platforms in areas where high levels of operational wastes were found. In the country analyses, Portugal had the highest level with 16.22%, followed at some distance by Spain (6.97%) and Norway with 6.43% (Figure 12). France, Sweden, and Latvia had the lowest recorded levels of zero.

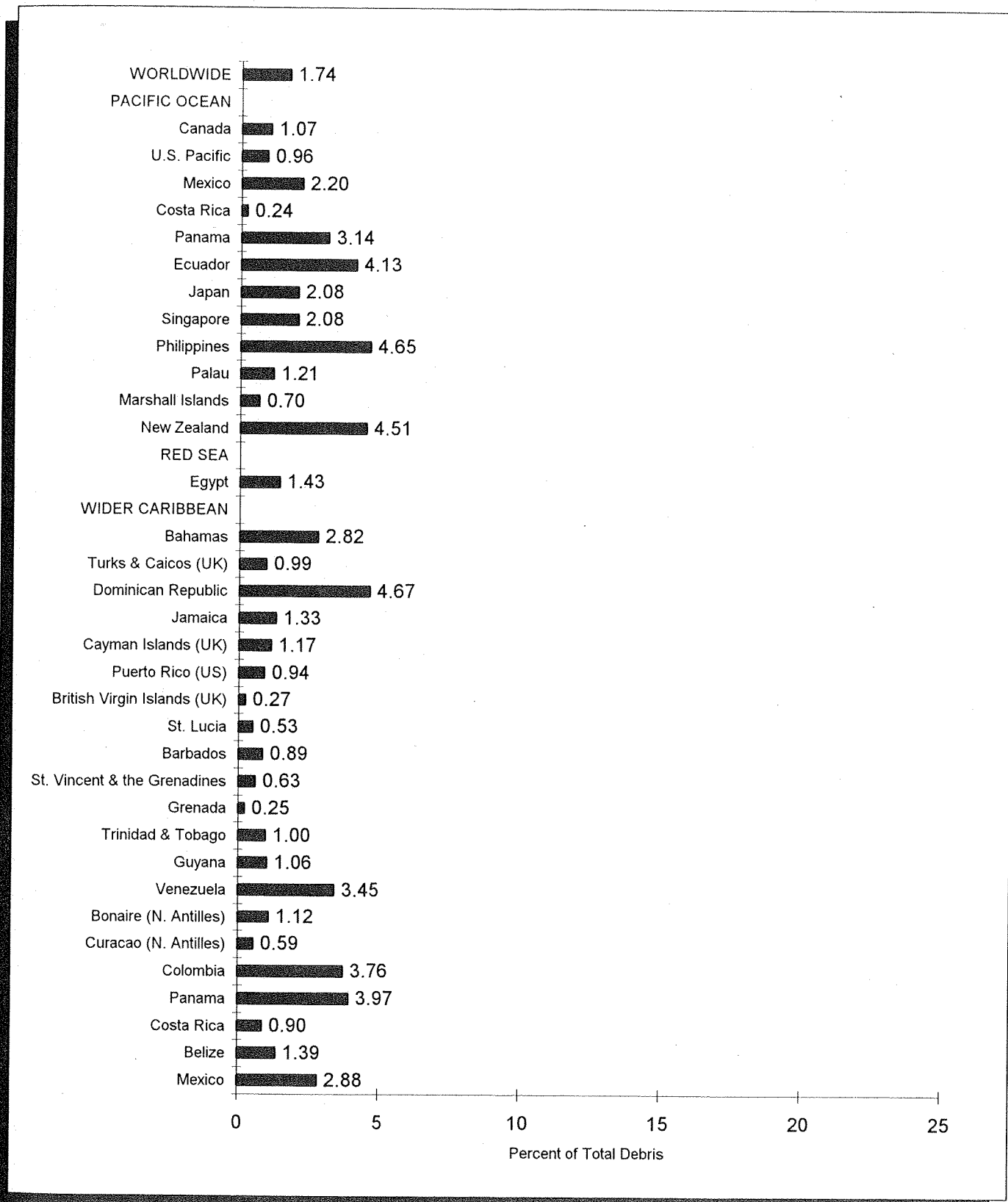
**FIGURE 11. Operational Wastes Reported from 1995 International Coastal Cleanups (Regional Analysis)**



**FIGURE 12. Operational Wastes Reported from 1995 International Coastal Cleanups (Country-by-Country Analysis)**

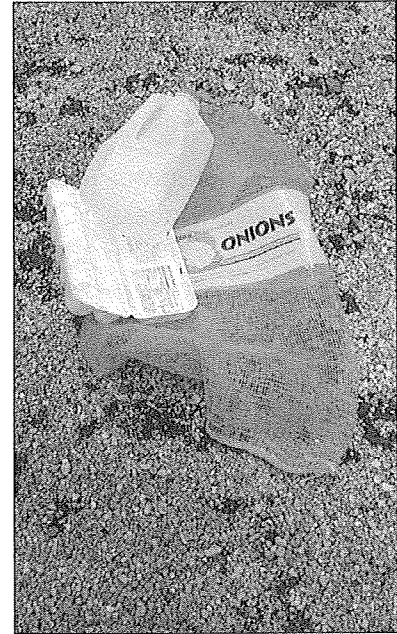


**FIGURE 12. Operational Wastes Reported from 1995 International Coastal Cleanups (Country-by-Country Analysis), cont.**



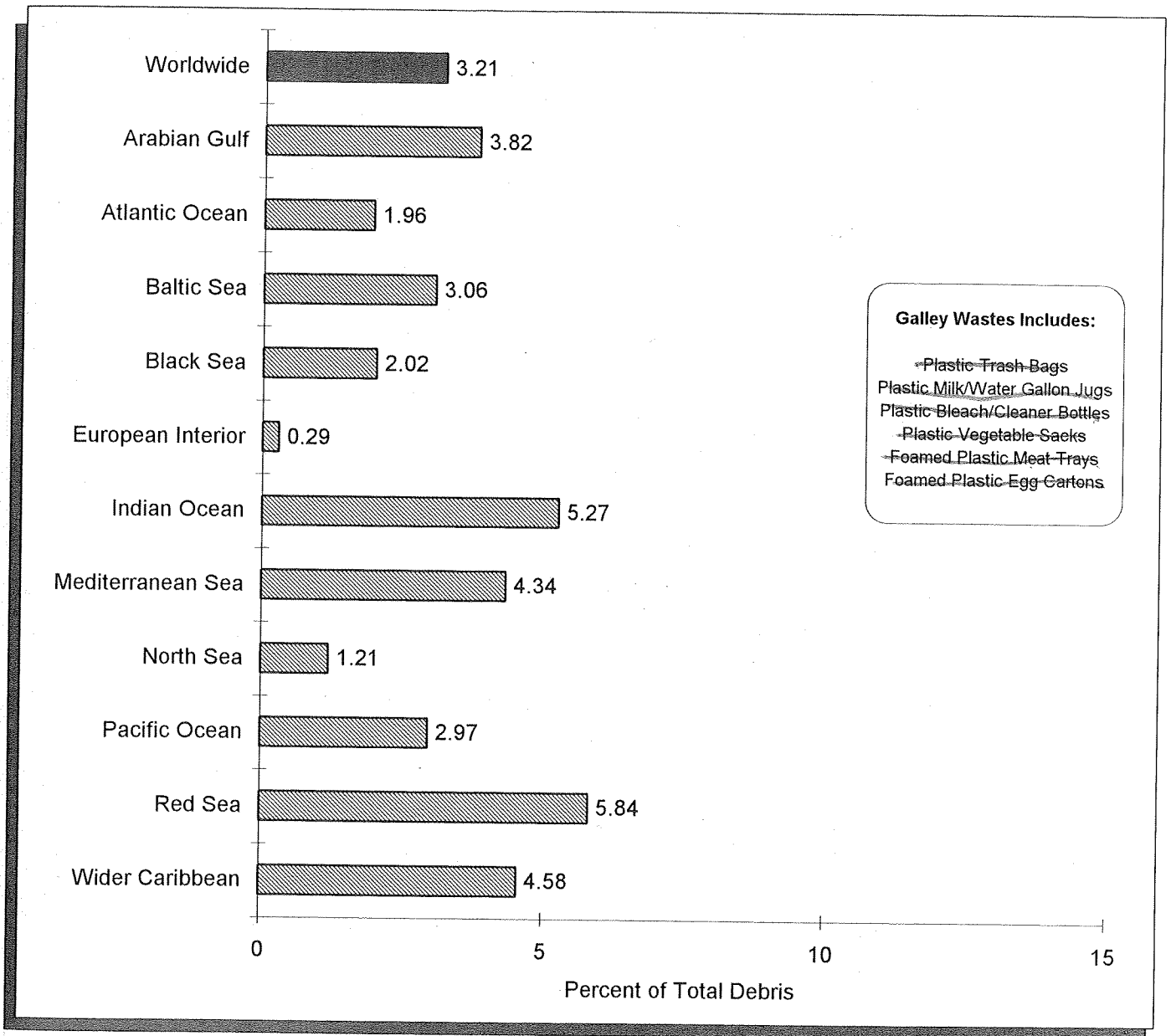
- **Galley-Type Wastes**

Plastic trash bags, plastic milk or water jugs, plastic bleach and cleaner bottles, plastic vegetable sacks, and foamed plastic meat trays and egg cartons are all items used in ships' galleys. As with operational wastes, galley-type wastes are a nuisance to a ship's crew because they occupy valuable storage space. Again, Annex V of the MARPOL Treaty prohibits the overboard disposal of this trash. When the Coast Guard inspects ships in U.S. waters, one of the areas they review is how the ship handles its garbage. If a ship with a fair-sized crew has been out at sea for several days, there should be a reasonable amount of trash onboard. Further, U.S. vessels must carry a log book with a record of waste handling procedures. If there is no appreciable amount of trash and no log book documenting trash procedures, the Coast Guard can and will cite the captain, crew or owner of the vessel for MARPOL violations and assess fines of up to \$500,000 and/or five years in jail. Who says proper disposal doesn't pay?

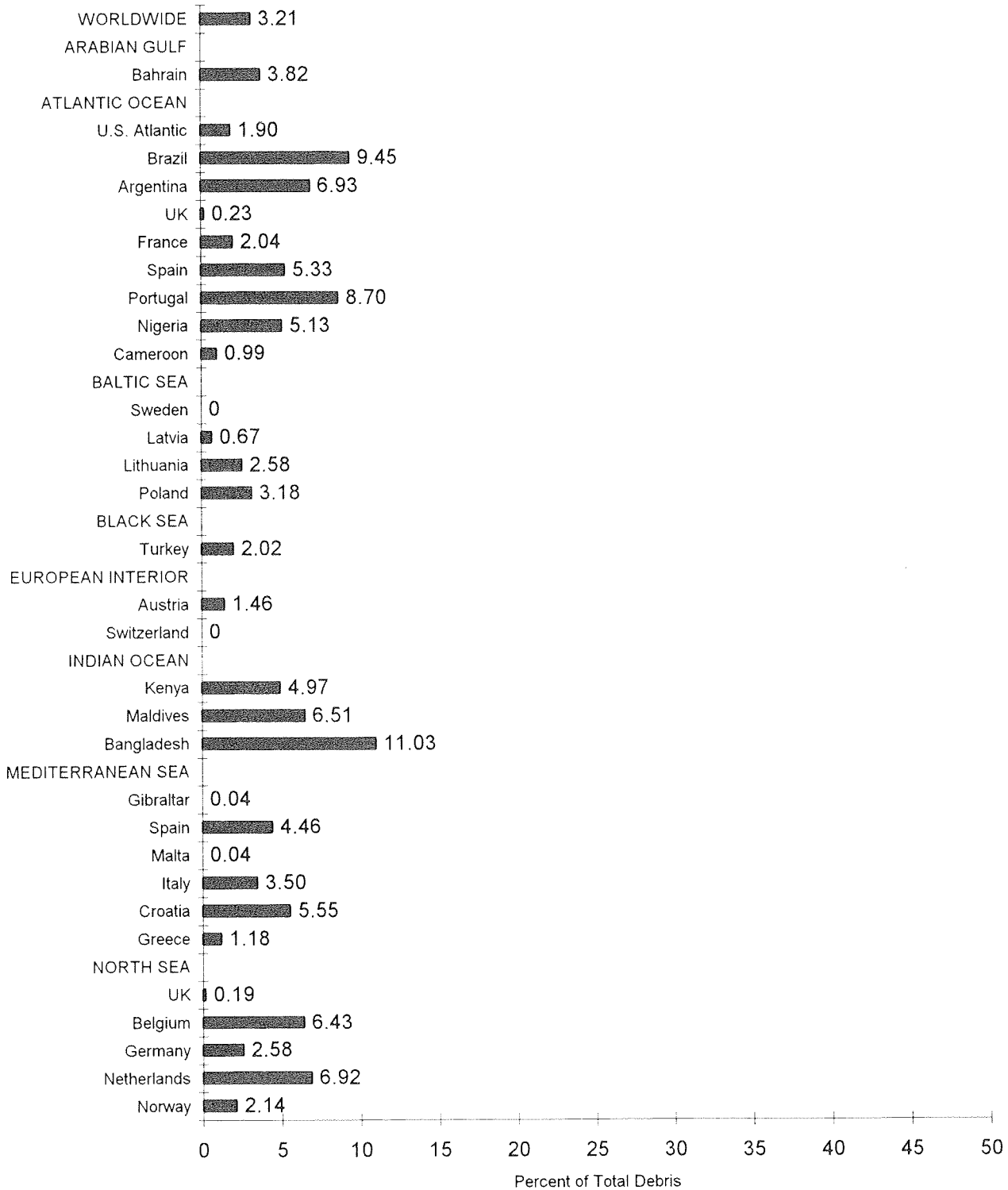


Of all the ocean-based sources of debris found in the 1995 Cleanup, galley-type wastes were the most common, at 3.21%. Over 81,039 trash bags were collected, in the 1995 Cleanup, along with 40,558 plastic milk/water gallon jugs and 9,146 egg cartons. Regionally, the highest levels of galley-types wastes were recorded in the Red Sea with 5.84% followed by the Indian Ocean with 5.27%, the Wider Caribbean with 4.58%, the Mediterranean Sea with 4.34%, and Arabian Gulf with 3.82% (Figure 13). The region with the lowest record of galley-type wastes was the European Interior with 0.29%. In the country analysis, St. Lucia had the highest level of galley-type waste with 29.29% followed by Grenada with 13.56%, Costa Rica with 13.03%, the Dominican Republic with 12.25% and Bangladesh with 11.03% (Figure 14). Sweden and Switzerland reported no galley-type wastes. It should be noted that items such as plastic jugs, egg cartons, and trash bags are not restricted to use on ships' galleys, of course, and can also be the result of littering or improper trash disposal onshore.

**FIGURE 13. Galley-Type Wastes Reported from 1995 International Coastal Cleanups (Regional Analysis)**

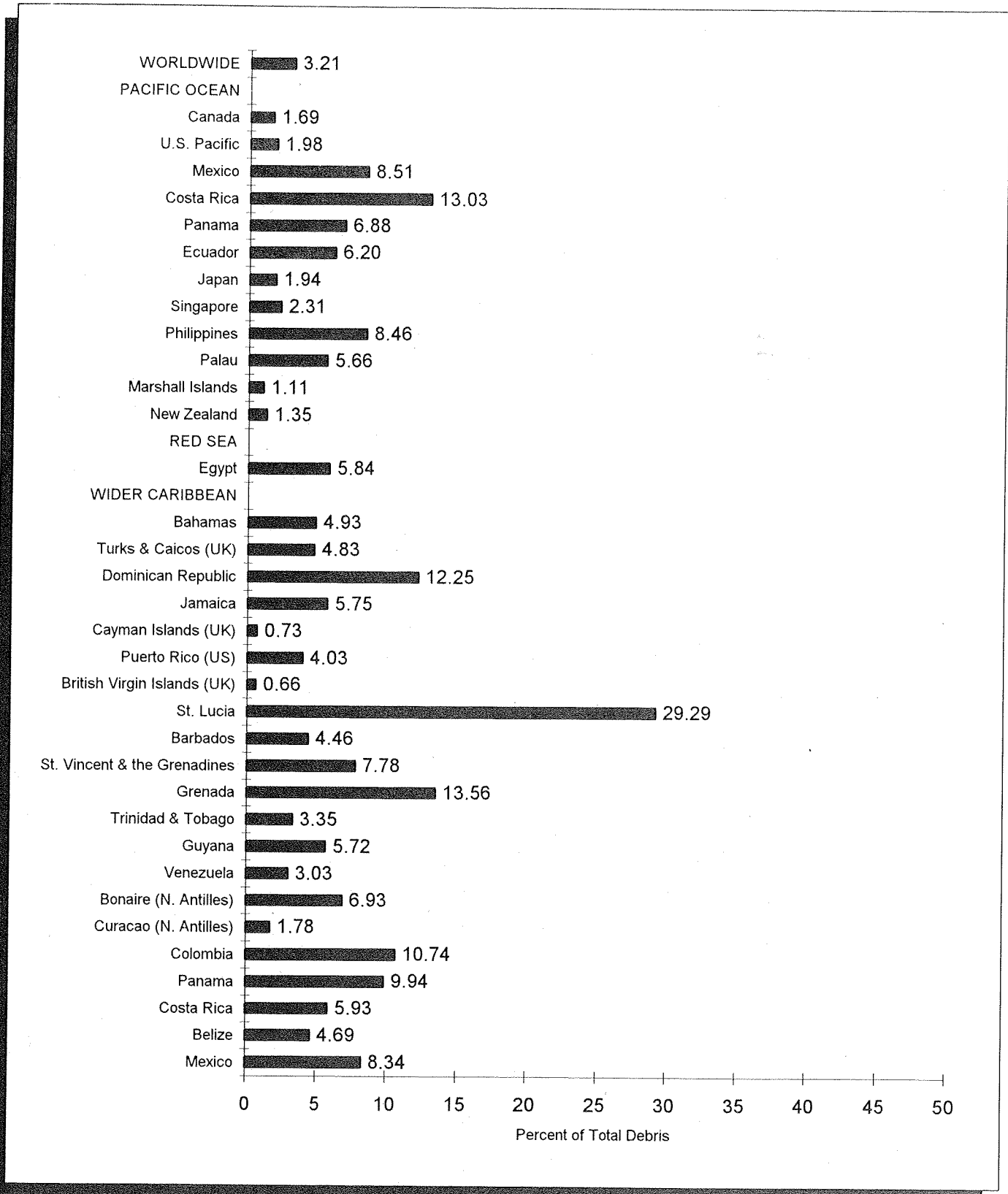


**FIGURE 14. Galley-Type Wastes Reported from 1995 International Coastal Cleanups (Country-by-Country Analysis)**





**FIGURE 14. Galley-Type Wastes Reported from 1995 International Coastal Cleanups (Country-by-Country Analysis), cont.**



## LAND-BASED SOURCES OF DEBRIS

On a global scale, most of the debris found along our waterways, shorelines, and beaches is not the result of improper handling or illegal disposal of garbage in the ocean. Estimates show that between 60 and 80% of the debris affecting the marine environment is land-based in its origin and carried by creeks, streams, rivers, and stormwater systems to coastal areas. A vast amount of debris comes from antiquated sewage systems, inadequate solid waste disposal practices and landfills, and careless citizens who litter or purposely dump their garbage into the water. **Sewage-associated wastes** such as tampon applicators and rubber condoms, and **medical wastes** such as plastic syringes, are indicative of land-based sources of debris. People traditionally dispose of these materials via the toilet and sewage system.

Sewage-associated wastes can end up in waterways and ultimately on the beaches through combined sewer overflows (CSOs). These overflows usually occur in older sewage systems in which sewage and runoff from storms are combined in the same pipes flowing into a treatment facility. During heavy rain storms the pipes cannot handle the increased water load, so the sewage system shunts some of the raw, untreated sewage as well as street runoff directly into the nearest waterway. In some areas, storm drain systems including gutters and ditches drain their contents into waterways that eventually flow into coastal areas. In countries that are less developed in terms of sewage treatment, many communities dispose of raw sewage into the streets, and use pits on the outskirts of the town to discard solid wastes. In some cases, dry river beds become community dump sites. When it rains, these areas flood, carrying a deluge of garbage into the ocean.

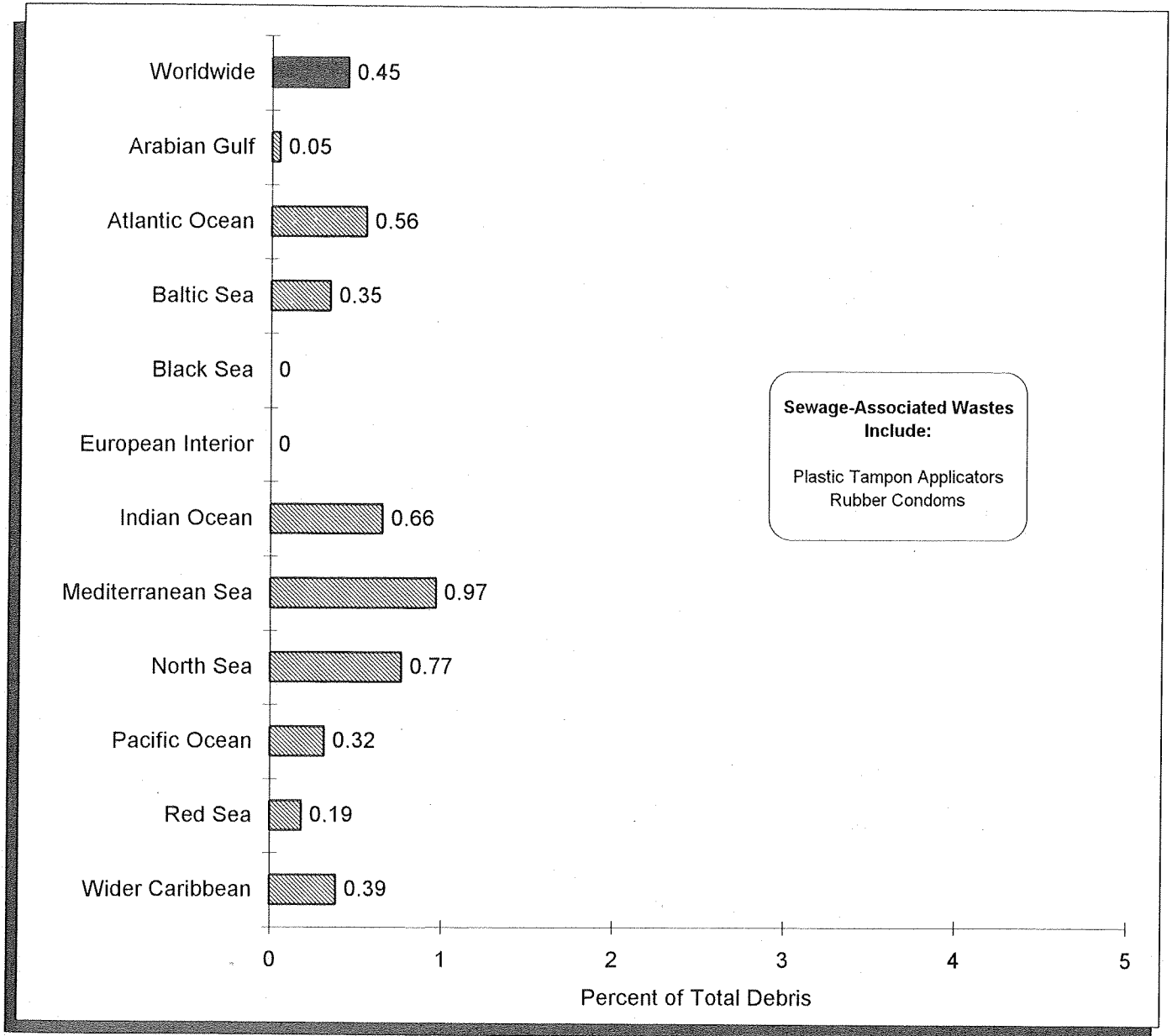
Monitoring the presence of sewage-associated debris items not only allows us to pinpoint specific areas where land-based sources are prevalent, but these items also serve as visible markers for tracing other more "invisible" pollutants. If tampon applicators and condoms are prevalent on a local beach, it is likely that the adjacent waters have been contaminated with untreated sewage.

- **Sewage-Associated Wastes**

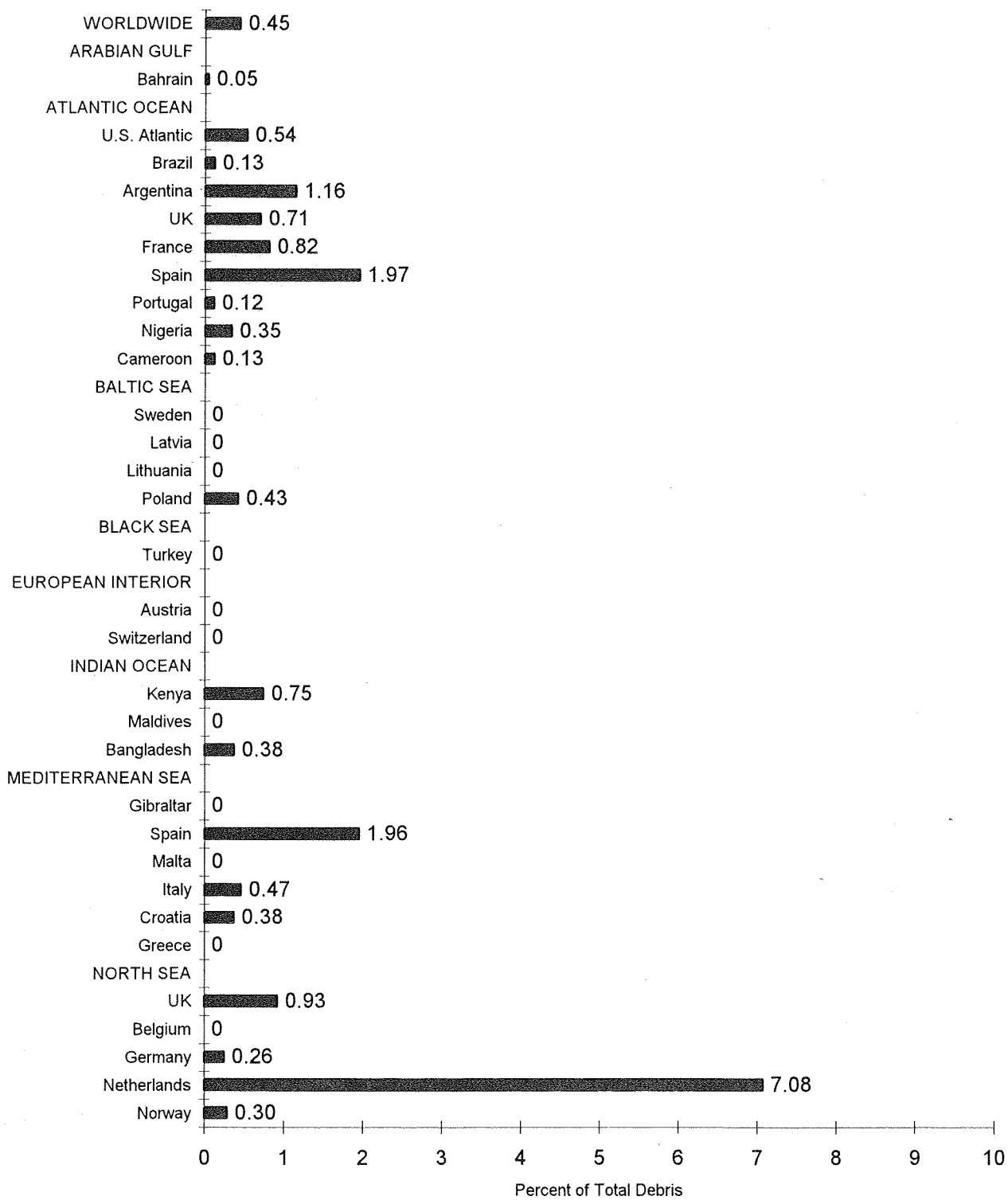
Debris items representing sewage-associated wastes collected in the 1995 Cleanup accounted for 0.45% of all the debris tabulated, a slight increase compared to the 1994 Cleanup percentage of 0.42%. This figure translates into 18,042 plastic tampon applicators and 10,005 rubber condoms. Regionally, the highest level of sewage-associated wastes compared to the worldwide average was in the Mediterranean Sea with 0.97%, followed by the North Sea with 0.77%, the Indian Ocean with 0.66%, and the Atlantic Ocean with 0.56% (Figure 15). Cleanups conducted in Spain in both the Atlantic Ocean and Mediterranean Sea regions had the highest country levels with 1.97% and 1.96%, respectively (Figure 16). Next in the rankings was Argentina (1.16%) and the Dominican Republic (1.14%). No sewage-associated wastes were reported in the British Virgin Islands, Grenada, Curaçao (Netherlands Antilles), Sweden, Latvia, Lithuania, Turkey, Austria, Switzerland, the Maldives, Gibraltar, Malta, Greece, and Belgium.



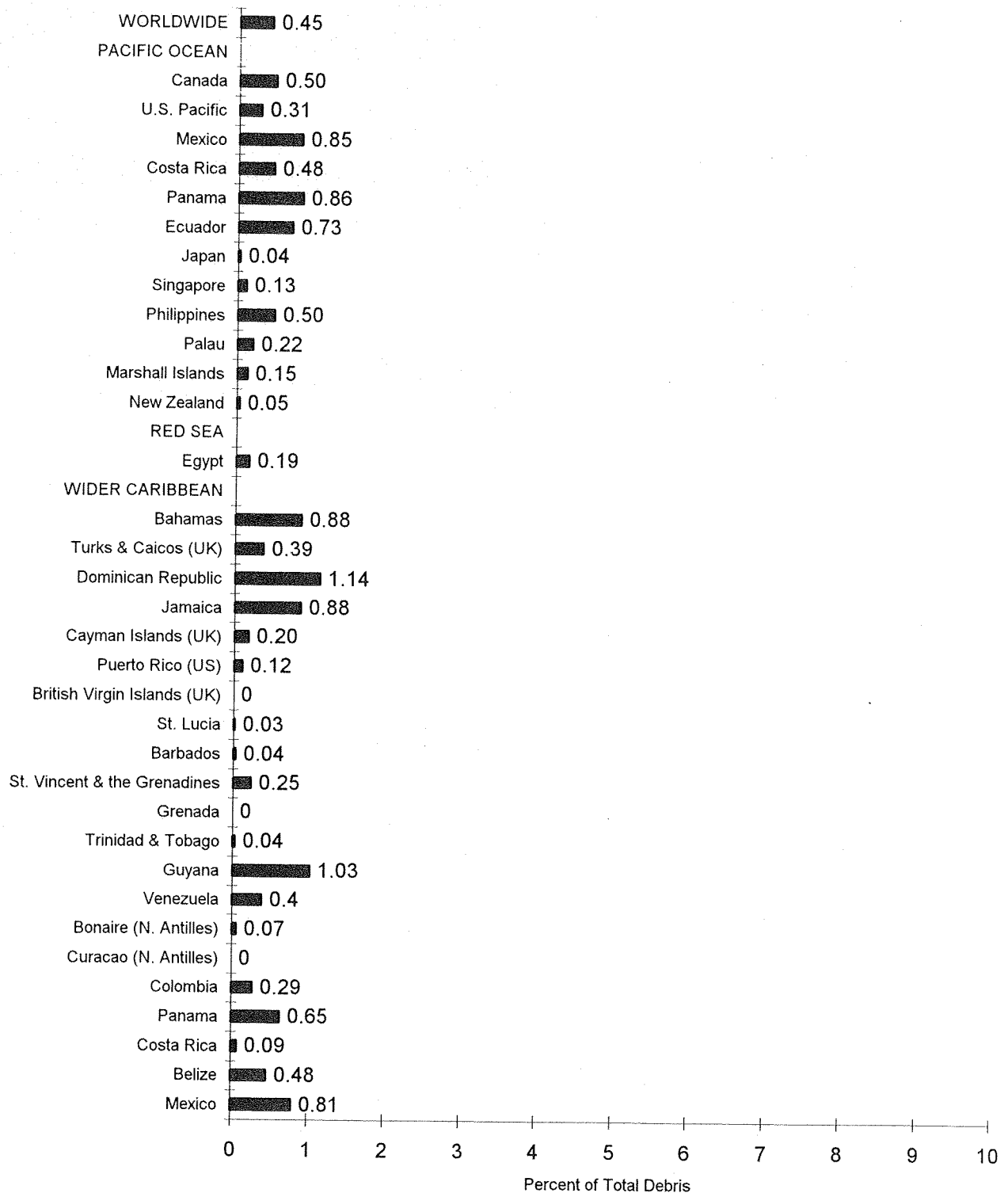
**FIGURE 15. Sewage-Associated Wastes Reported from 1995 International Coastal Cleanups (Regional Analysis)**



**FIGURE 16. Sewage-Associated Wastes Reported from 1995 International Coastal Cleanups (Country-by-Country Analysis)**



**FIGURE 16. Sewage-Associated Wastes Reported from 1995 International Coastal Cleanups (Country-by-Country Analysis), cont.**



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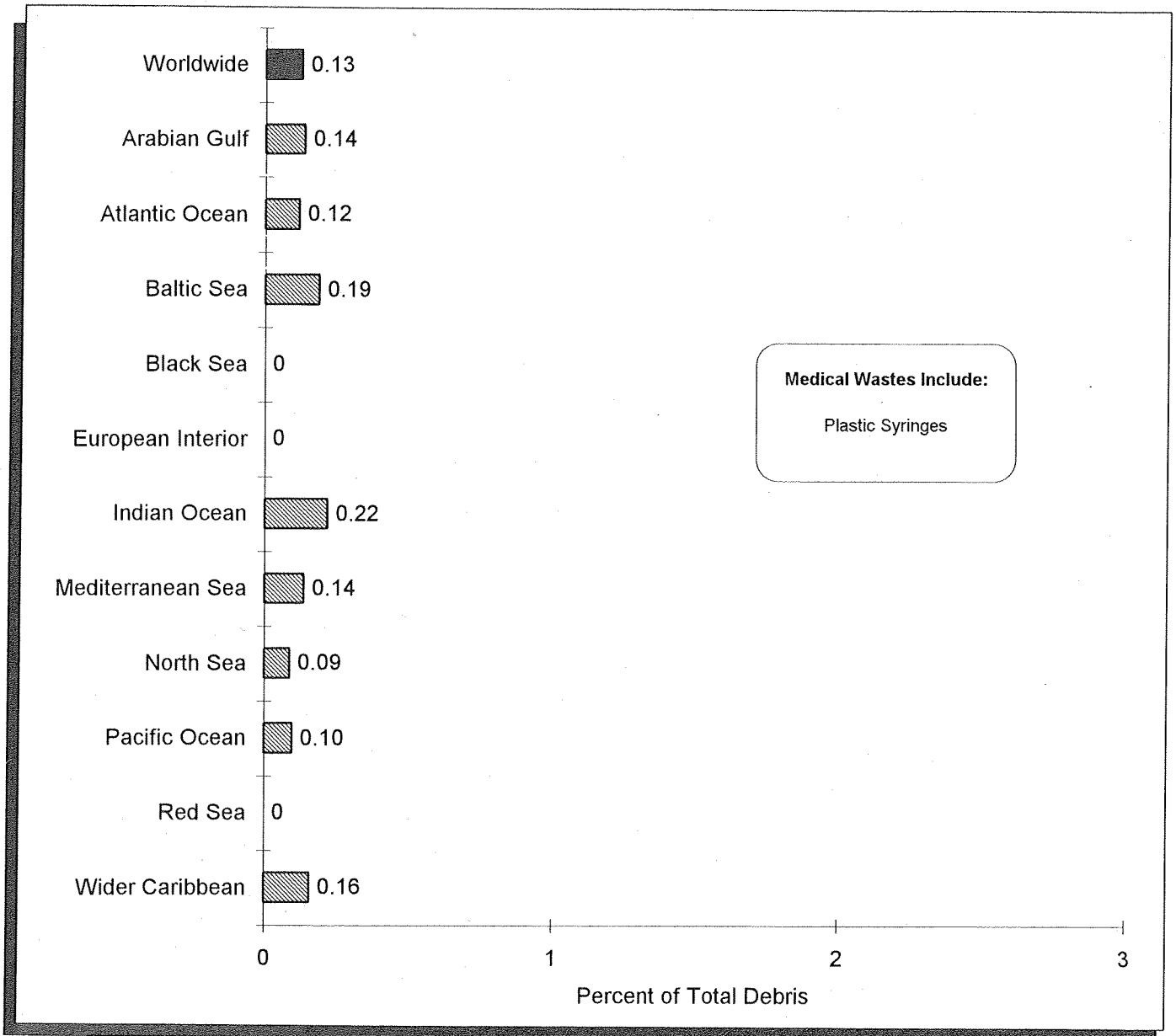
- **Medical Wastes**

The only form of debris tabulated in the Coastal Cleanup as an indicator item for medical wastes are plastic syringes. The use of syringes ranges from physician-prescribed, self-medication for people suffering from diabetes or chronic pain, to illegal use in the streets by drug addicts. Some of these syringes become marine debris through disposal in municipal sewage or refuse systems. Illegal use of these materials in the streets results in their washing into gutters. And, of course, when bags of these materials wash up on the beaches in labeled medical trash bags, we have an instance of illegal dumping. Any and all of these situations can send needles to a waterway and onto a beach.

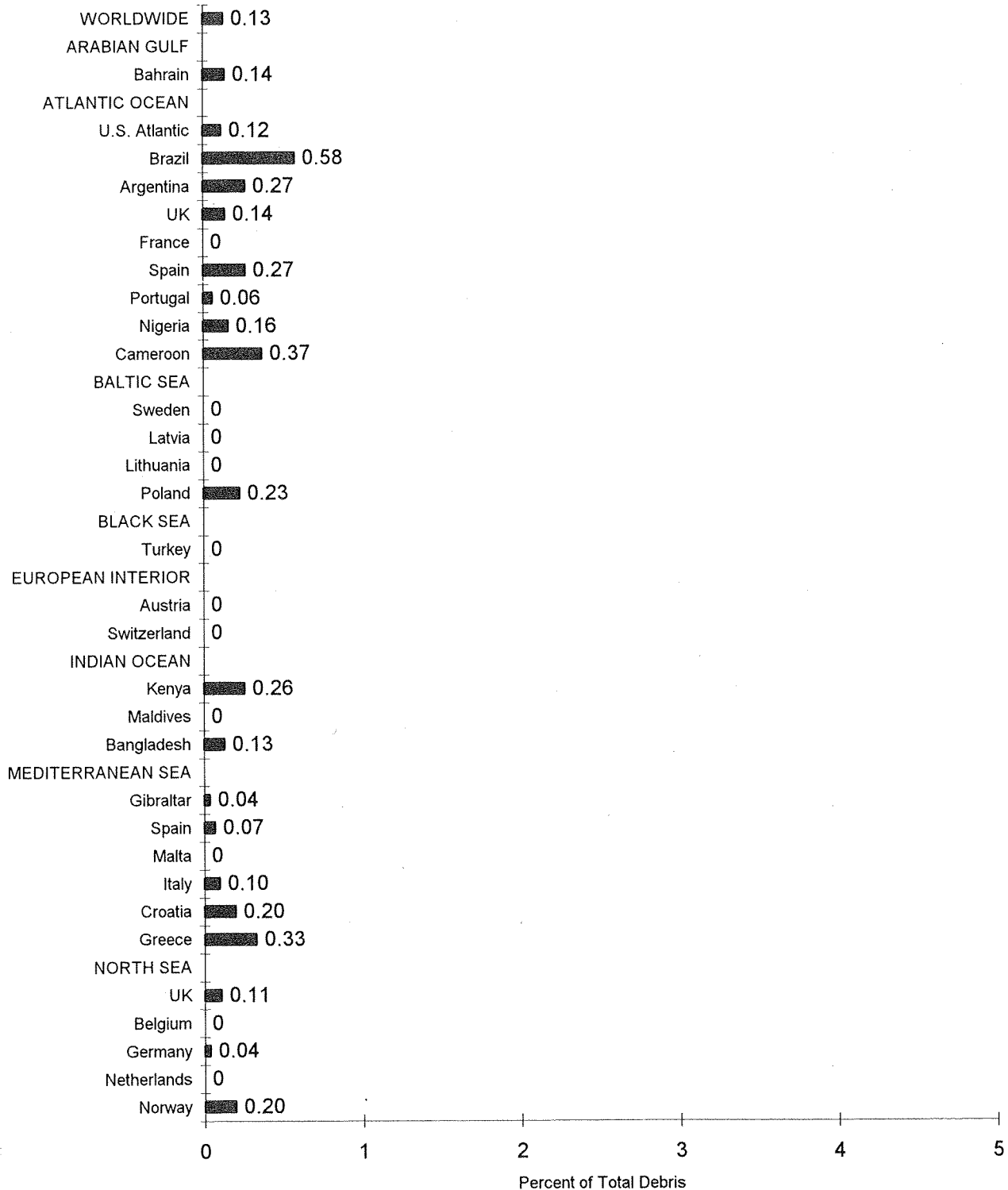


In the 1995 Cleanup, 7,851 plastic syringes were tabulated, representing 0.13% of the total debris collected, a slight increase from 0.11% in 1994 (Figure 17). The regional picture for this type of marine debris reveals that several areas met or exceeded the worldwide average including: the Indian Ocean (0.22%), the Baltic Sea (0.19%), the Wider Caribbean (0.16%), and Mediterranean Sea and Arabian Gulf, both with 0.14%. In the country analysis, Costa Rica led with 0.98%, followed by Guyana with 0.93%, Brazil with 0.58%, and the Dominican Republic with 0.45% (Figure 18). No syringes were reported in France, Sweden, Latvia, Lithuania, Turkey, Austria, Switzerland, Maldives, Malta, Belgium, Netherlands, New Zealand, Egypt, Bahamas, Cayman Islands (UK), British Virgin Islands, St. Lucia, Grenada, or Curaçao (Netherlands Antilles).

**FIGURE 17. Medical Wastes Reported from 1995 International Coastal Cleanups (Regional Analysis)**

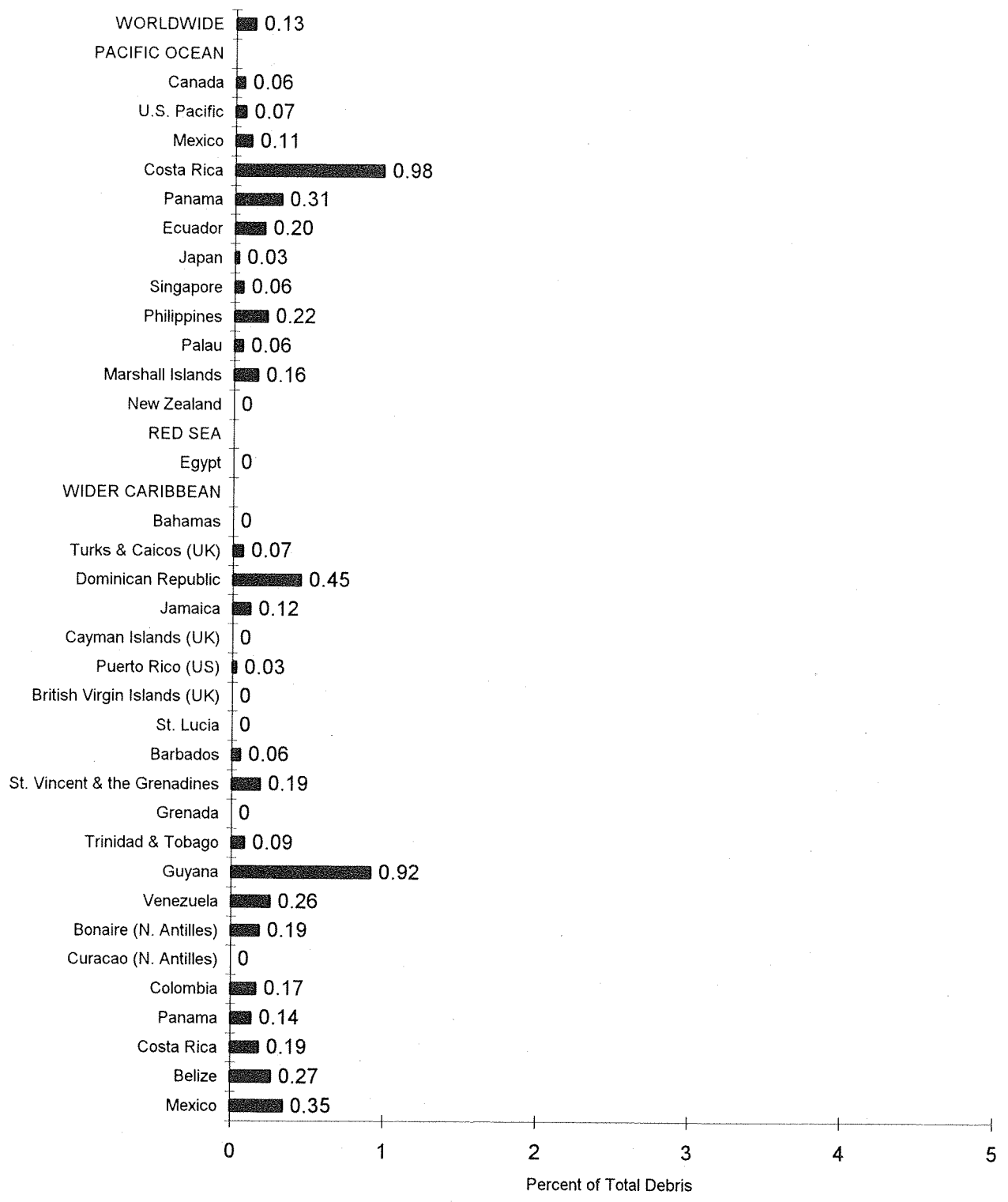


**FIGURE 18. Medical Wastes Reported from 1995 International Coastal Cleanups  
(Country-by-Country Analysis)**





**FIGURE 18. Medical Wastes Reported from 1995 International Coastal Cleanups (Country-by-Country Analysis)**



## FOREIGN SOURCES OF MARINE DEBRIS

Oceans do not recognize political, cultural, or geographic boundaries. Neither does marine debris. It travels wherever the winds and currents carry it after a human has put it into the water. In the 1995 Cleanup, foreign-related debris was reported by cleanup volunteers in 11 countries from 45 different nations, including toilet cleaner from the United States, Italy, and China; shaving cream from France; hand lotion and cream from Brazil and Sweden; and coconut juice from Thailand, a can of baby formula from Mexico, and potato chips from Japan (Table 6). More items were found from Japan (21) and Mexico (12) than any of the other countries. Foreign debris is identified based on labels and other markings. It is important to remember that just because a can or a bottle has a foreign label does not mean that it was dumped into the water by an individual from that country. Bottles and cans purchased in one location can become debris at an entirely different location.

Annex V of the MARPOL Treaty, which regulates the dumping of debris from ships, can do a great deal to prevent the occurrence of foreign debris on the beaches. Ships from countries that are signatory to the MARPOL Treaty and have ratified Annex V are prohibited from dumping their plastic wastes into any waterway, anywhere in the world. Further, ships entering a signatory's waters, even if from a non-signatory country, are prohibited from dumping their wastes into the signatory country's waters. To date, 79 countries have signed onto Annex V. Clearly, many more countries must be persuaded to sign onto Annex V, not only to keep other countries' beaches cleaner, but their own as well. Perhaps the additional new regulations (modeled after the U.S. law) requiring the international shipping community to post placards about MARPOL's regulations and maintain waste management logbooks will aid in the enforcement and compliance with the MARPOL Treaty. These new rules will go into effect on July 1, 1997.

A coordinated, global effort, where all countries are working together to stop ocean dumping, is essential to reduce the amount of debris that enters the world's ocean. If one country works to control their solid wastes, and their neighbors are not conducting similar practices, progress will be offset by the winds and currents that travel over the planet. Global cooperation is essential for solving the problems of marine debris.



**TABLE 6. Foreign Debris Reported During 1995 International Coastal Cleanups**

LOCATION	SOURCE	TYPE OF DEBRIS
Bahrain	Brazil	water container
Belize	Hong Kong United States	food wrapper talc bottle, beer can
Japan	China Korea Mexico New Zealand Russia Saudi Arabia United States	plastic tubs, plastic beverage bottles plastic bottles plastic bottle aerosol can plastic bottle plastic bottle plastic tub, toilet detergent bottle
Malta	Italy Senegal Tunisia	toilet flush bottle food packaging food can
Mexico	Canada Colombia Venezuela	plastic bottle plastic bottles plastic bottles
Netherlands Antilles	Holland	Army food can
Palau	Japan	bottle
Panama	United States	plastic bottle
Turks & Cacios	Japan Norway	plastic bottle plastic bottle
United Kingdom	Belgium Croatia Denmark Finland France  Germany Greece "Holland" Japan Netherlands Russia Spain	aerosol can, plastic wrapper, margarine pot plastic bottle plastic carton label plastic containers, plastic bottle, plastic carton, plastic labels, plastic packing, glass bottles, aerosol cans glass bottles, plastic bottle, metal can, aerosol can metal tube, plastic container tin plastic bottle plastic milk jugs plastic bottle lighter, bleach bottle
United States	Argentina Belgium Brazil Canada  Chile China  Colombia	beverage can plastic bottle oil bottle, plastic container, plastic bottle beverage can, plastic strapping bands, fish tags, lobster tag, strapping band, beverage bottle, beverage can, plastic bands, strapping band, pipe, plastic strip styrofoam packing plastic detergent bottle, aerosol can, plastic bottles, plastic bubble bath bottle, toilet cleaner, toxic chemical drum, plastic beverage bottle glass vial, plastic bottle

**TABLE 6. Foreign Debris Reported During 1995 International Coastal Cleanups, cont.**

LOCATION	SOURCE	TYPE OF DEBRIS
United States, cont.	Costa Rica	I.D. tag
	Cuba	beverage can
	France	shaving cream can, plastic bottle
	Greece	food bottle
	Guatemala	vegetable sack
	Iceland	plastic float
	Indonesia	bottle of cleaner
	Japan	plastic food package, plastic bottles, chop sticks, crate, tea drink, oil bottle, helmet, aerosol cans, newspaper, fireworks, plastic wrapper, plastic bottle, bottles, soda bottles, noodle wrapper, potato chip bag
	Korea	aerosol can, foamed plastic cup
	Mexico	bottles, Prell bottle, plastic squeeze bottle, Pepsi bottle, oil can, plastic bottle, beer bottle, Clorox bottles, salt bag, bottles, baby formula can
	Norway	drinking water
	Philippines	rubbing compound
	Portugal	bottle
	Russia	plastic bottle, aerosol label
	"Scandinavia"	bottle
	Singapore	paint can, juice box, drink box, bottle
	Spain	plastic bottle
	Sweden	hand creme
	Thailand	beverage can, coconut juice, soup package
	Taiwan	beverage can, plastic bag, jelly dessert
Venezuela	plastic bottles, medicine bottle	
Vietnam	plastic bottles	

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## CONCLUSION

The 1995 International Coastal Cleanup marked the tenth cleanup coordinated by the Center for Marine Conservation, in partnership and collaboration with a vast network of volunteers, government agencies, private industry, foundations, associations, and environmental and citizen action groups.<sup>3</sup> This ten-year campaign has created a greater public awareness of the issue of marine debris, developing a functioning matrix to assess the types and sources of marine debris, and has built the foundation for solutions to be developed to cope with this pervasive pollution problem. But, as this report shows, we are still facing a critical situation regarding human-made debris and its impact on our lakes, rivers, bays, and the ocean.

After ten years, plastic continues to be the most abundant form of debris found along the world's waterways and beaches, due in large part to the nature of the material and society's dependence upon its strengths and qualities. The 1995 Dirty Dozen highlights one of the fundamental issues regarding marine debris—that of citizen responsibility in handling solid waste. The 12 debris items read like the remains from a picnic—plastic (hard and foamed), paper and glass pieces; plastic food bags and wrappers, caps and lids, and straws; plastic beverage bottles; metal beverage cans and bottle caps; glass beverage bottles; and let's not forget the nearly one million cigarette butts. The Dirty Dozen represent trash that people leave behind on the beach, dump overboard from their boats, toss out of their car windows into the street, and blatantly dump into the water.

Bottles and associated good continue to have a marked presence in the data due to inadequate solid waste management, especially of recyclable materials. Plastic, glass, and metal beverage bottles and cans; plastic ring carriers; and metal bottle caps and pull tabs all represent consumables that could be recycled instead of entering the waste stream.

In the regional overview of the marine debris "hot spots," recreational fishing gear is prominent among the debris collected in the Arabian Gulf, Atlantic and Indian Oceans, and North Sea (Table 7). Debris from commercial fishing activities, and operational and galley wastes were prominent in the Arabian Gulf, Indian Ocean, Mediterranean and North Seas, and in the Wider Caribbean. Land-based sources of sewage-associated and medical wastes were evident in the Baltic, Mediterranean, and Baltic Seas; and the Atlantic and Indian Oceans, Arabian Gulf, and Wider Caribbean.

The impact of marine debris on wildlife is well known, and the data from the 1995 Cleanup substantiates this dramatically with reports of entanglements involving 179 animals. Almost 30% of the entangled animals were ensnared in monofilament fishing line. Cleanup volunteers were successful in releasing only 18 of these animals.

We have established regulations against dumping human-made materials into our waterways and the ocean, but they are effective only if we comply with them. Education is one of the keys. Significant strides have been made in broadening the public's awareness of this issue, as evidenced by the Cleanup's expansion in recent years. The continued support and dedication of the Cleanup's sponsors and volunteers attests to its success and the need to continue. We shall take what has been learned in the past ten cleanups and use that information to affect future cleanups and, more importantly, to develop permanent solutions to a very solvable pollution problem. Join us for the next Cleanup on September 21, 1996 as we get closer and closer to bringing this under control.

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<sup>3</sup>. A complete listing of Country Sponsors for the 1995 International Coastal Cleanup can be found in Appendix 6.

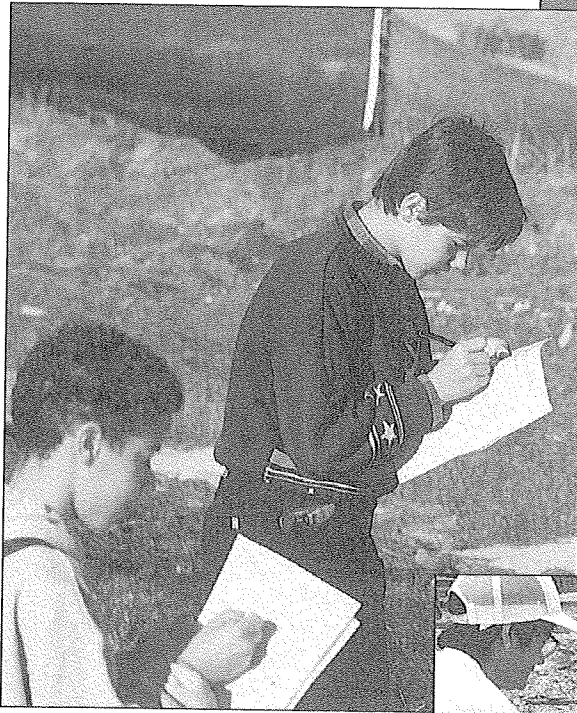
TABLE 7. Regional Overview of Marine Debris—"Hot Spots"

REGION	R. FISHING	C. FISHING	OPER.	GALLEY	SEWAGE	MEDICAL
ARABIAN GULF	X	X	X	X		X
ATLANTIC OCEAN	X	X			X	
BALTIC SEA			X			X
BLACK SEA						
EUROPEAN INTERIOR						
INDIAN OCEAN	X	X	X	X	X	X
MEDITERRANEAN SEA		X	X	X	X	X
NORTH SEA	X	X	X		X	
PACIFIC OCEAN						
RED SEA		X		X		
WIDER CARIBBEAN		X	X	X		X

X's indicate region's debris in that category was equal to or above the worldwide percentage.



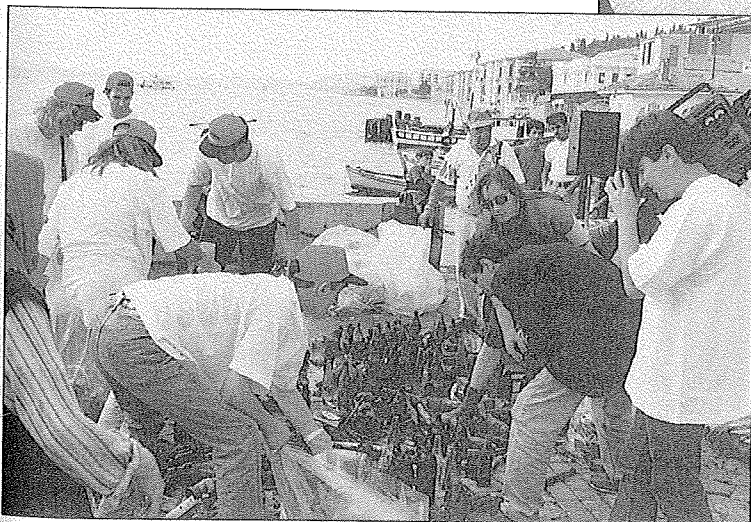
*The Philippines*



*Portugal*



*Netherlands Antilles*



*Turkey*

FIGURE 19. 1995 International Marine Debris Raw Data Summary

DEBRIS ITEM	COUNTRY	1995 International Coastal Cleanup											
		ARGENTINA	AUSTRIA	BAHAMAS	BAHRAIN	BANGLADESH	BARBADOS	BELGIUM	BELIZE	BRAZIL	BRITISH V.I.	CAMEROON	CANADA
PLASTIC: Food Bags/Wrappers	1873	12	17	5734	93	461	10	1500	69	6	80	1336	72
Salt Bags	22	0	0	179	0	26	0	55	0	0	13	4	0
Trash Bags	1291	3	28	1372	15	95	10	784	185	3	13	165	0
Other Bags	874	2	53	4576	8	334	0	1442	362	12	65	354	5
Beverage Bottles, Soda	425	14	84	1297	9	766	130	823	123	339	42	273	26
Bleach Bottles	87	0	24	356	3	285	0	327	144	10	50	25	33
Milk/Water Gallon Jugs	98	0	30	786	53	76	50	449	0	3	36	74	7
Oil Lube Bottles	132	1	2	281	22	92	0	380	26	9	290	56	1
Other Plastic Bottles	142	20	51	721	5	338	0	908	272	13	443	190	4
Buckets	46	6	1	137	0	36	15	188	13	2	20	29	2
Caps/Lids	1246	8	41	1363	5	971	0	2019	339	84	378	614	93
Cigarette Butts	1852	0	7	1971	113	48	0	640	36	26	52	3100	175
Cigarette Lighters	41	1	0	302	9	21	0	133	25	0	123	72	21
Cups/Utensils	205	33	5	849	0	402	50	1467	164	150	120	454	145
Diapers	521	0	0	211	0	4	0	164	0	1	0	48	14
Fishing Line	50	2	1	427	0	52	50	81	3	0	35	63	46
Fishing Floats/Lures	18	2	0	302	0	35	0	101	5	1	68	21	7
Fishing Nets	39	3	12	623	6	187	4	86	13	1	88	20	8
Hard Hats	100	0	10	52	0	2	0	19	0	0	0	0	2
Light Sticks	3	0	6	210	3	30	0	142	0	0	55	8	1
Plastic Pieces	2378	0	259	4566	1	2042	0	3830	367	61	1878	1452	113
Pipe Thread Protectors	9	0	20	187	0	3	0	47	0	0	5	15	2
Rope	563	0	31	4377	16	632	0	394	40	18	89	334	65
Long Sheeting	19	2	0	227	0	4	6	57	5	0	0	64	0
Short Sheeting	17	0	0	242	1	1	0	95	6	7	4	59	7
Six-Pack Holders	79	0	0	147	0	1	0	167	0	2	0	105	19
Strapping Bands	163	0	0	274	2	44	0	104	75	2	26	105	14
Straws	602	0	0	690	6	79	0	2161	5	68	2	819	30
Syringes	60	0	0	118	1	7	0	103	23	0	49	11	0
Tampon Applicators	132	0	0	14	0	0	0	25	0	0	14	116	0
Toys	42	2	1	3916	20	29	0	235	25	1	4	49	29
Vegetable Sacks	21	3	1	354	6	4	0	85	10	0	31	18	0
Write Protection Rings	4	0	0	9	0	1	0	28	0	2	0	17	0
Other Plastic	238	53	16	1248	0	217	0	1308	22	57	370	342	74
FOAMED PLASTIC: Buoys	115	0	2	183	5	27	0	178	17	2	0	37	4
Cups	27	0	56	696	31	101	0	775	1	104	21	626	60
Egg Cartons	19	0	21	213	9	20	0	47	11	0	0	19	0
Fast Food Containers	28	0	13	356	0	69	20	349	3	18	72	141	29
Meat Trays	26	0	20	103	0	22	0	74	27	1	0	89	0
Packaging Material	77	0	18	795	12	276	15	331	3	8	20	414	38
Foamed Pieces	996	0	332	2102	1	918	0	1555	244	19	88	1219	81
Plates	26	0	41	234	9	78	0	449	2	4	3	39	17
Other Foamed Plastic	135	0	93	817	2	298	0	618	34	15	60	536	9
GLASS: Beverage Bottles	256	65	79	1810	7	390	200	998	73	529	94	509	293
Food Jars	18	0	9	253	10	47	0	175	18	4	20	42	1
Other Bottles/Jars	127	9	39	597	1	73	0	336	59	22	153	99	14



FIGURE 19. 1995 International Marine Debris Raw Data Summary, cont.

DEBRIS ITEM	ARGENTINA	AUSTRIA	BAHAMAS	BAHRAIN	BANGLADESH	BARBADOS	BELGIUM	BELIZE	BRAZIL	BRITISH V.I.	CAMEROON	CANADA	CAYMAN ISLANDS
Fluorescent Light Tubes	1	0	11	44	2	14	0	59	1	0	0	1	1
Light Bulbs	95	0	9	185	6	30	1	51	6	3	0	28	0
Glass Pieces	750	0	229	4373	0	228	100	1037	41	37	136	1572	71
Other Glass	139	12	35	446	1	31	15	187	0	0	85	248	7
RUBBER: Balloons	34	0	10	204	9	5	20	125	1	2	14	197	4
Condoms	127	0	22	26	3	5	0	155	5	0	3	51	5
Gloves	30	0	0	473	4	7	0	325	2	13	1	31	3
Tires	120	4	7	154	4	38	50	289	14	7	28	59	39
Other Rubber	266	0	43	1042	1	212	0	316	347	21	349	99	13
METAL: Bottle Caps	111	0	26	753	29	132	0	979	29	63	28	497	194
Aerosol Cans	37	2	12	103	19	83	30	111	32	14	48	33	0
Beverage Cans	227	70	22	3505	2	52	0	461	86	138	38	405	207
Food Cans	24	0	20	398	8	42	0	258	25	4	79	73	1
Other Cans	42	0	20	496	4	22	0	113	22	22	70	32	1
Crab/Lobster Traps	1	0	20	191	1	0	3	34	2	0	0	1	4
55 Gallon Rusty Drums	22	3	10	11	0	4	0	165	4	0	47	18	3
55 Gallon New Drums	5	0	3	1	0	3	0	25	0	0	15	0	0
Metal Pieces	184	4	76	777	0	36	20	313	113	20	32	364	19
Pull Tabs	41	0	7	307	0	3	0	113	36	0	2	162	29
Wire	58	0	23	562	5	33	0	164	3	1	9	135	5
Other Metal	78	40	30	588	0	15	32	373	2	13	0	1060	14
PAPER: Bags	433	0	22	975	60	22	0	370	38	220	3	155	23
Cardboard	357	0	20	704	3	32	10	346	20	5	17	193	14
Cartons	246	0	3	1204	5	82	0	353	0	29	90	95	30
Paper Cups	29	1	20	498	0	43	0	329	54	61	0	185	32
Newspaper/Magazines	593	0	10	531	16	32	0	130	20	3	7	143	11
Paper Plates	1501	0	40	2161	2	92	0	874	52	246	83	1078	58
Other Paper	62	0	21	235	5	52	0	223	13	7	0	36	33
WOOD: Crab/Lobster Traps	122	0	4	1081	0	7	0	213	0	35	0	255	0
Crates	0	0	21	209	2	0	0	23	1	0	48	0	0
Lumber Pieces	8	4	8	209	0	1	10	47	5	0	50	2	0
Pallets	1014	0	237	5246	0	131	30	921	107	4	128	105	14
Other Wood	60	0	13	296	2	1	10	112	26	0	56	9	9
CLOTH: Clothing/Pieces	39	3	28	8018	0	42	2	455	1	1	6661	95	28
TOTAL ITEMS/COUNTRY	22248	411	2514	83419	780	11250	933	37618	3989	2584	13145	21972	2477

FIGURE 19. 1995 International Marine Debris Raw Data Summary, cont.

DEBRIS ITEM	COLOMBIA	COSTA RICA	CROATIA	DOM REPUBLIC	ECUADOR	EGYPT	FRANCE	GERMANY	GIBRALTAR	GREECE	GRENADA	GUYANA	ITALY	JAMAICA
PLASTIC: Food Bags/Wrappers	1467	1152	951	900	1547	335	20	151	0	1136	202	145	51	1262
Salt Bags	100	0	301	101	137	0	0	12	0	0	27	30	0	18
Trash Bags	2147	373	756	3808	1935	76	0	84	0	0	0	75	61	666
Other Bags	995	384	920	942	601	419	0	265	170	0	0	175	46	1299
Beverage Bottles, Soda	452	1383	1388	653	1832	397	20	735	0	940	239	77	191	1011
Bleach Bottles	150	679	592	1100	424	94	5	61	0	107	101	60	8	388
Milk/Water Gallon Jugs	304	334	429	356	356	258	0	68	0	0	62	46	58	231
Oil Lube Bottles	296	821	1411	1737	110	2	53	0	0	0	43	78	10	378
Other Plastic Bottles	317	801	1075	1293	1049	245	0	71	508	0	23	105	55	807
Buckets	76	41	88	297	64	3	86	0	0	0	0	16	10	246
Caps/Lids	713	1238	1305	1695	1190	297	0	74	0	501	3	47	17	935
Cigarette Butts	1283	252	3522	316	3170	961	100	394	0	0	0	26	434	285
Cigarette Lighters	62	87	314	85	53	87	2	40	0	0	0	26	12	127
Cups/Utensils	2373	426	393	3516	2582	148	0	267	83	459	8	122	77	967
Diapers	130	29	174	353	317	21	0	56	1	0	0	56	5	375
Fishing Line	23	38	130	307	282	24	0	142	4	49	0	38	40	135
Fishing Floats/Lures	5	4	91	41	34	55	10	193	2	0	0	19	16	39
Fishing Nets	21	7	107	309	232	19	6	24	2	65	0	6	37	196
Hard Hats	11	0	80	99	120	0	0	7	0	0	0	0	0	18
Light Sticks	22	1	118	89	13	124	0	100	0	0	0	50	5	147
Plastic Pieces	605	968	1209	2707	2784	149	0	209	111	0	1	21	41	1247
Pipe Thread Protectors	89	0	66	42	66	18	0	0	0	0	0	0	0	53
Rope	152	206	291	600	1279	198	0	242	6	149	0	27	23	278
Long Sheetting	11	6	112	306	197	17	0	68	0	0	0	1	4	50
Short Sheetting	16	0	56	141	181	42	0	53	36	48	0	0	7	59
Six-Pack Holders	381	318	18	600	1079	0	0	0	0	0	0	5	0	15
Strapping Bands	31	10	168	199	239	12	0	14	3	26	0	3	7	47
Straws	1410	381	296	467	1963	144	0	62	0	703	0	43	85	705
Syringes	45	106	97	227	98	0	0	5	1	30	0	32	4	32
Tampon Applicators	67	30	77	430	311	10	2	14	0	0	0	20	0	52
Toys	92	367	246	339	137	5	3	87	4	65	0	26	18	124
Vegetable Sacks	64	92	384	446	278	108	0	22	1	0	0	3	0	63
Write Protection Rings	26	0	61	157	18	15	0	0	0	369	0	0	0	29
Other Plastic	287	193	1250	1922	1136	215	0	186	228	0	0	72	31	287
FOAMED PLASTIC: Buoys	53	154	300	616	421	61	4	5	0	0	0	1	5	166
Cups	345	111	363	1013	566	245	0	303	5	0	1	58	50	430
Egg Cartons	55	4	422	116	64	24	0	12	0	0	0	14	1	86
Fast Food Containers	34	3	73	401	402	200	0	76	3	0	0	20	0	136
Meat Trays	84	0	257	223	30	101	0	80	0	0	0	1	6	96
Packaging Material	97	27	406	356	307	104	0	110	36	0	58	1	20	218
Foamed Pieces	197	515	1260	1914	870	143	0	14	140	0	0	18	77	398
Plates	131	80	230	901	417	111	0	49	0	0	3	100	50	190
Other Foamed Plastic	201	9	672	407	189	161	0	1	0	0	0	25	2	238
GLASS: Beverage Bottles	734	548	2391	1181	2129	358	0	1445	0	307	25	111	407	724
Food Jars	97	88	401	161	319	132	0	448	0	0	0	13	71	139
Other Bottles/Jars	374	328	1128	625	852	155	0	229	15	0	0	21	28	434

FIGURE 19. 1995 International Marine Debris Raw Data Summary, cont.

DEBRIS ITEM	COLOMBIA	COSTA RICA	CROATIA	DOM REPUBLIC	ECUADOR	EGYPT	FRANCE	GERMANY	GIBRALTAR	GREECE	GRENADA	GUYANA	ITALY	JAMAICA
Fluorescent Light Tubes	7	0	109	576	14	5	0	7	0	0	0	6	5	12
Light Bulbs	13	11	166	305	136	7	0	20	0	36	0	7	9	26
Glass Pieces	945	302	2396	2071	1594	291	0	637	0	731	0	0	94	564
Other Glass	57	21	860	371	52	66	0	18	0	190	0	10	61	187
RUBBER: Balloons	18	2	150	65	58	3	7	14	0	0	21	6	4	82
Condoms	9	22	112	139	55	12	0	19	0	0	0	16	18	182
Gloves	20	8	337	111	51	28	4	26	0	5	0	17	21	41
Tires	37	21	866	330	94	72	0	140	1	0	0	114	106	207
Other Rubber	61	309	485	869	188	157	0	73	0	30	0	91	74	14
METAL: Bottle Caps	1180	95	2797	789	525	313	0	430	0	256	0	80	94	604
Aerosol Cans	55	398	443	395	148	129	7	948	2	0	77	31	10	653
Beverage Cans	796	953	2001	692	970	177	40	1085	594	889	6	74	422	291
Food Cans	70	570	633	337	376	378	0	171	31	218	1	34	58	508
Other Cans	124	21	889	288	214	53	0	22	0	0	0	27	12	239
Crab/Lobster Traps	4	2	48	72	38	49	0	8	0	0	0	0	0	75
55 Gallon Rusty Drums	83	0	183	190	404	178	2	17	1	0	34	4	0	156
55 Gallon New Drums	5	0	67	48	17	0	0	5	0	0	0	0	0	8
Metal Pieces	251	132	1134	659	360	125	0	81	4	0	0	5	42	452
Pull Tabs	499	30	315	395	241	45	0	250	0	0	0	0	0	35
Wire	182	16	454	288	293	195	0	113	3	57	0	0	5	244
Other Metal	61	38	479	104	182	85	5	527	13	193	0	92	52	765
PAPER: Bags	378	22	777	303	484	348	0	38	0	181	15	129	7	437
Cardboard	867	37	603	216	361	91	0	137	10	115	0	26	12	765
Cartons	430	13	551	448	514	352	0	199	120	0	0	33	47	1181
Paper Cups	202	39	557	494	468	223	0	130	10	0	14	110	46	336
Newspaper/Magazines	246	33	551	423	1140	134	0	317	12	180	0	15	68	490
Paper Pieces	967	78	1571	362	1512	210	0	194	50	673	0	97	200	446
Paper Plates	65	23	1007	322	155	133	0	59	0	0	0	122	60	156
Other Paper	69	54	442	201	343	122	0	25	68	0	0	6	5	198
WOOD: Crab/Lobster Traps	0	0	45	61	9	187	0	2	0	0	32	0	0	80
Crates	27	0	75	101	151	14	0	23	0	53	3	13	9	52
Lumber Pieces	451	120	1276	766	2162	151	3	99	0	87	0	128	0	395
Pallets	766	17	133	547	1114	74	0	23	2	0	0	7	0	67
Other Wood	103	10	753	79	361	147	0	10	190	162	0	30	7	352
CLOTH: Clothing/Pieces	430	132	599	2300	808	306	0	194	68	55	27	168	37	724
TOTAL ITEMS/COUNTRY	26103	16123	49384	49958	49804	11322	245	12678	2538	9065	1202	3479	3829	26593

FIGURE 19. 1995 International Marine Debris Raw Data Summary, cont.

DEBRIS ITEM	JAPAN	KENYA	LATVIA	LITHUANIA	MALDIVES	MALTA	MARSHALL ISLAND	MEXICO	NETHERLANDS	NETHERLANDS ANTILLES	NEW ZEALAND	NIGERIA
PLASTIC: Food Bags/Wrappers	3983	1373	33	565	34	42	176	4455	12	217	1234	1068
Salt Bags	22	349	0	0	4	0	9	578	0	0	3	118
Trash Bags	1247	348	5	174	87	0	38	6265	18	75	0	388
Other Bags	9483	836	49	363	17	60	51	1815	5	294	3067	451
Beverage Bottles, Soda	4910	672	18	437	158	0	51	4901	30	2397	936	177
Bleach Bottles	672	261	0	86	32	0	20	2270	15	782	72	150
Milk/Water Gallon Jugs	582	578	0	43	134	0	5	1877	9	157	271	312
Oil Lube Bottles	275	596	0	13	18	0	2	4387	0	332	49	121
Other Plastic Bottles	1683	1072	25	68	5	523	23	2953	17	1335	428	326
Buckets	388	190	0	5	0	0	0	680	3	238	4	79
Caps/Lids	6199	1570	0	401	23	296	136	9082	27	647	3157	227
Cigarette Butts	56701	787	27	709	300	1055	1704	7009	12	12	188	784
Cigarette Lighters	1887	149	6	0	1	10	17	433	2	78	127	281
Cups/Utensils	1005	472	9	195	57	839	53	3294	14	632	268	239
Diapers	71	116	0	0	0	0	0	874	0	8	3	44
Fishing Line	394	315	0	22	89	22	6	669	11	33	287	117
Fishing Floats/Lures	507	322	0	87	12	3	10	384	0	130	11	215
Fishing Nets	244	329	0	66	8	5	1	548	4	14	31	80
Hard Hats	8	37	0	0	0	0	0	195	0	0	0	14
Light Sticks	12	223	0	53	0	0	0	520	0	39	0	440
Plastic Pieces	27831	2077	150	324	150	224	739	9539	0	870	2599	347
Pipe Thread Protectors	1	98	0	10	0	0	0	205	5	23	0	42
Rope	923	927	9	689	28	43	47	2345	0	324	2106	283
Long Sheeting	1403	150	0	0	32	0	3	267	1	14	0	6
Short Sheeting	522	241	0	249	25	0	7	340	0	19	770	8
Six-Pack Holders	45	6	0	0	0	12	40	2063	2	86	314	22
Strapping Bands	3226	197	0	0	0	6	18	529	0	66	1620	18
Straws	2111	324	0	92	20	0	41	4079	0	178	1580	295
Syringes	82	78	0	0	0	0	10	431	0	29	0	34
Tampon Applicators	39	46	0	0	0	0	4	915	43	10	0	28
Toys	711	100	12	54	1	3	11	1036	3	36	4	39
Vegetable Sacks	72	136	0	0	0	2	1	511	0	38	0	138
Write Protection Rings	7	29	0	0	0	0	1	326	0	5	0	31
Other Plastic	16913	902	0	463	73	546	84	2493	1	361	1093	249
FOAMED PLASTIC: Buoys	298	206	0	38	1	4	10	966	0	43	76	249
Cups	1043	257	0	0	5	10	156	2060	42	123	234	274
Egg Cartons	159	61	0	96	0	0	2	272	0	2	0	101
Fast Food Containers	1666	238	0	0	0	78	67	453	27	33	0	338
Meat Trays	1889	131	0	28	0	0	2	456	0	17	156	30
Packaging Material	416	814	9	0	27	0	66	664	6	236	84	269
Foamed Pieces	25869	1106	34	721	41	258	504	4158	0	1164	2937	389
Plates	300	371	0	7	0	0	17	1333	0	53	0	117
Other Foamed Plastic	439	999	0	196	0	7	75	663	2	107	184	391
GLASS: Beverage Bottles	5355	426	31	299	346	6	91	7926	54	804	148	343
Food Jars	713	73	0	0	11	0	4	2943	0	76	5	190
Other Bottles/Jars	571	219	13	0	70	100	11	2466	0	173	701	357

FIGURE 19. 1995 International Marine Debris Raw Data Summary, cont.

DEBRIS ITEM	JAPAN	KENYA	LATVIA	LITHUANIA	MALDIVES	MALTA	MARSHALL ISLAND	MEXICO	NETHERLANDS	NETHERLANDS ANTILLES	NEW ZEALAND	NIGERIA
Fluorescent Light Tubes	38	56	0	5	7	0	1	290	0	48	1	37
Light Bulbs	187	83	0	48	121	1	6	617	0	17	38	67
Glass Pieces	5225	292	22	1353	544	295	385	5091	100	1467	8045	309
Other Glass	466	142	0	412	10	0	2	265	2	172	80	168
RUBBER: Balloons	35	134	0	52	0	1	34	215	0	1	32	269
Condoms	46	183	0	0	0	0	5	224	0	0	19	49
Gloves	113	71	0	68	10	1	13	206	0	0	3	131
Tires	84	395	16	45	12	14	4	409	17	31	2	170
Other Rubber	1087	2052	0	158	27	13	139	857	0	759	281	873
METAL: Bottle Caps	3551	390	0	0	75	64	67	4193	0	165	382	504
Aerosol Cans	694	143	0	10	25	3	5	868	0	82	0	159
Beverage Cans	16634	428	26	152	218	76	352	1680	76	296	164	325
Food Cans	693	127	0	46	78	35	11	837	11	21	0	365
Other Cans	316	203	13	99	23	0	29	334	0	52	196	185
Crab/Lobster Traps	10	8	0	0	1	0	0	0	0	0	0	39
55 Gallon Rusty Drums	7	140	0	0	6	0	1	347	1	0	1	227
55 Gallon New Drums	7	27	0	0	0	0	1	37	0	3	0	48
Metal: Pieces	747	127	68	149	20	51	58	1000	2	49	3	621
Pull Tabs	915	15	0	705	217	0	36	1065	0	33	95	52
Wire	949	112	28	126	140	10	24	810	7	17	47	110
Other Metal	1579	145	0	149	126	54	50	194	21	115	1064	142
PAPER: Bags	536	597	27	4738	0	11	27	1914	0	13	104	500
Cardboard	299	124	10	33	25	17	16	1068	0	2	7	646
Cartons	252	321	0	202	62	19	8	1035	0	21	0	461
Paper Cups	554	67	8	83	0	14	58	568	0	21	67	158
Newspaper/Magazines	474	347	4	133	27	11	7	900	0	2	12	482
Paper Plates	4544	680	29	0	55	226	190	1599	0	13	55	1105
Paper Plates	574	101	0	33	0	0	6	580	0	13	0	137
Other Paper	2919	315	0	202	30	23	25	849	0	17	762	368
WOOD: Crab/Lobster Traps	0	59	0	0	0	0	0	106	0	0	0	180
Crates	58	54	0	30	0	0	2	314	0	0	1	67
Lumber Pieces	6644	380	55	265	40	110	98	4590	0	6	355	510
Pallets	11	242	0	0	30	4	12	1100	3	1	1	210
Other Wood	3482	374	0	1372	22	250	63	383	0	15	146	1094
CLOTH: Clothing/Pieces	1054	756	15	8	124	25	72	1916	2	51	141	840
<b>TOTAL ITEMS/COUNTRY</b>	<b>237661</b>	<b>30497</b>	<b>751</b>	<b>16521</b>	<b>3884</b>	<b>5482</b>	<b>6124</b>	<b>139252</b>	<b>607</b>	<b>15815</b>	<b>36849</b>	<b>21827</b>

FIGURE 19. 1995 International Marine Debris Raw Data Summary, cont.

DEBRIS ITEM	NORWAY	PALAU	PANAMA	PHILIPPINES	POLAND	PORTUGAL	SINGAPORE	SLOVENIA	SPAIN	ST. LUCIA	ST. VINCENT	SWEDEN	SWITZERLAND
PLASTIC: Food Bags/Wrappers	183	478	2589	10662	5199	13	5137	10	3303	585	822	0	15
Salt Bags	2	5	369	1258	204	0	52	0	199	0	56	0	0
Trash Bags	14	69	3485	4194	830	0	733	3	1627	19	106	0	0
Other Bags	88	210	1429	3781	1933	879	1605	7	1247	28	848	0	0
Beverage Bottles, Soda	12	782	3639	1753	10938	258	1028	25	2141	222	1377	5	67
Bleach Bottles	9	145	2333	1454	1324	170	217	4	103	2781	1194	0	0
Milk/Water Gallon Jugs	8	229	1153	1257	461	559	288	1	415	3	288	0	0
Oil Lube Bottles	10	132	3321	1566	405	242	89	1	211	405	895	1	0
Other Plastic Bottles	28	388	3233	1943	1227	217	707	0	741	1115	601	0	0
Buckets	10	13	795	438	151	31	62	3	58	19	50	0	11
Caps/Lids	175	75	5755	1335	1173	237	1789	5	1354	786	1131	0	0
Cigarette Butts	309	144	874	3659	502	285	8726	2	6848	0	106	0	0
Cigarette Lighters	4	13	444	995	450	33	723	17	143	0	27	0	2
Cups/Utensils	14	39	4179	1510	64	84	963	10	711	149	490	0	189
Diapers	1	24	413	1066	450	17	15	0	165	4	131	0	0
Fishing Line	18	21	282	1296	219	102	327	2	514	30	52	0	5
Fishing Floats/Lures	0	78	184	881	30	101	60	4	406	0	41	3	0
Fishing Nets	15	31	557	1568	489	119	184	1	303	7	45	0	11
Hard Hats	0	6	284	485	0	0	14	0	158	0	3	0	0
Light Sticks	2	2	286	1873	0	0	318	0	56	2	22	0	0
Plastic Pieces	55	339	2719	1147	0	0	4518	0	1669	1561	1103	0	0
Pipe Thread Protectors	91	13	199	397	0	0	34	0	108	5	7	0	0
Rope	182	200	1344	1599	0	670	1497	2	2602	146	124	0	4
Long Sheeting	10	0	342	289	1772	0	111	2	275	0	16	0	2
Short Sheeting	47	3	219	355	3946	0	244	8	157	3	51	0	0
Six-Pack Holders	4	42	2603	138	1008	0	51	0	688	13	37	3	0
Strapping Bands	23	9	237	494	0	605	506	0	324	44	19	0	4
Straws	57	39	1070	4054	0	0	3860	0	800	47	280	0	0
Syringes	4	5	307	273	190	5	35	0	41	0	40	0	0
Tampon Applicators	6	9	796	256	0	0	40	0	707	3	1	0	0
Toys	11	31	1215	1541	308	23	347	1	588	30	112	1	4
Vegetable Sacks	6	1	545	1520	0	40	73	0	57	14	53	0	0
Write Protection Rings	2	1	159	139	0	396	73	0	515	0	9	0	0
Other Plastic	41	97	2938	1759	3595	437	1192	0	2173	323	826	1	5
FOAMED PLASTIC: Buoys	1	198	348	671	411	218	129	5	329	1	37	0	0
Cups	5	97	2221	1753	2158	34	431	0	301	5	279	0	0
Egg Cartons	0	2	686	1303	0	0	54	0	180	13	13	0	0
Fast Food Containers	16	232	746	1353	799	54	314	3	65	10	176	0	0
Meat Trays	6	40	390	578	0	0	34	27	121	4	37	0	0
Packaging Material	37	132	648	1683	702	0	786	0	239	17	171	0	0
Foamed Pieces	42	1124	2774	1190	0	79	5222	12	479	358	943	0	0
Plates	0	92	2203	1356	338	25	245	0	104	51	97	0	0
Other Foamed Plastic	69	186	1110	2110	1635	397	1414	0	199	129	309	0	0
GLASS: Beverage Bottles	14	325	2695	2786	3750	45	369	152	1427	140	1273	12	546
Food Jars	1	29	1102	1046	734	0	54	38	175	3	469	0	51
Other Bottles/Jars	0	70	2606	1709	1374	266	212	15	690	112	593	2	0

FIGURE 19. 1995 International Marine Debris Raw Data Summary, cont.

DEBRIS ITEM	NORWAY	PALAU	PANAMA	PHILIPPINES	POLAND	PORTUGAL	SINGAPORE	SLOVENIA	SPAIN	ST. LUCIA	ST. VINCENT	SWEDEN	SWITZERLAND
Fluorescent Light Tubes	0	5	141	570	96	17	72	0	15	0	3	0	2
Light Bulbs	1	47	378	517	342	21	154	0	99	2	27	0	0
Glass Pieces	30	108	6527	1149	2858	0	1038	0	1057	1	228	0	67
Other Glass	3	26	143	1007	1336	54	201	0	189	0	117	0	20
RUBBER: Balloons	4	23	212	881	216	10	159	0	239	0	77	0	0
Condoms	0	10	128	354	350	11	37	3	300	0	53	0	0
Gloves	0	8	253	598	0	20	165	6	478	0	11	0	0
Tires	3	24	934	767	194	12	60	12	214	1	65	3	49
Other Rubber	7	397	908	1719	801	56	1111	0	214	320	956	0	51
METAL: Bottle Caps	112	106	1745	2603	4467	90	589	371	950	0	1018	0	0
Aerosol Cans	6	78	1294	599	918	28	103	62	144	38	485	0	5
Beverage Cans	5	808	2399	1619	3445	233	649	695	1205	6	573	0	352
Food Cans	2	52	1164	1459	1076	0	205	120	162	9	127	0	34
Other Cans	1	16	1012	773	548	0	97	0	260	46	82	0	0
Crab/Lobster Traps	0	0	64	594	0	27	14	0	35	0	38	1	1
55 Gallon Rusty Drums	0	22	374	434	79	15	30	6	122	0	52	0	43
55 Gallon New Drums	0	0	46	159	19	0	9	1	33	0	1	0	10
Metal Pieces	3	143	1388	779	1094	0	372	170	441	0	230	7	52
Pull Tabs	2	15	902	202	0	0	1033	60	186	1	78	0	0
Wire	9	17	936	739	200	57	165	0	400	1	47	0	0
Other Metal	9	152	219	819	0	153	411	0	242	0	83	0	14
PAPER: Bags	4	8	2137	2276	777	171	115	0	1130	0	175	0	0
Cardboard	8	8	2364	1417	1010	37	215	1	699	0	167	0	0
Cartons	2	5	2717	2261	611	78	288	31	591	2	146	0	0
Paper Cups	5	18	2271	1571	1870	60	177	60	314	0	158	0	0
Newspaper/Magazines	0	27	1295	2342	1754	73	402	30	790	0	13	0	0
Paper Plates	40	52	2286	858	4624	0	1436	7	2023	57	158	0	0
Paper Paper	1	26	1643	1409	493	10	163	47	110	0	116	0	0
Other Paper	17	53	559	697	910	232	542	0	998	0	56	0	0
WOOD: Crab/Lobster Traps	0	6	75	1303	215	19	14	2	45	0	16	0	0
Crates	1	16	370	593	208	70	32	4	289	0	32	0	0
Lumber Pieces	61	47	2544	6538	0	0	1660	1	2975	2	163	0	11
Pallets	1	7	1686	2177	109	324	241	2	1887	0	19	0	10
Other Wood	17	1	660	2879	1286	154	923	0	926	3	105	0	5
CLOTH: Clothing/Pieces	19	62	3911	2729	1492	165	639	3	585	1	458	0	10
TOTAL ITEMS/COUNTRY	2005	8593	113491	121864	82167	8836	58383	2054	56063	9677	21473	41	1652

FIGURE 19: 1995 International Marine Debris Raw Data Summary, cont.

DEBRIS ITEM	TRINIDAD&TOBAGO	TURKEY	TURKS & CAICOS	UNITED KINGDOM	UNITED STATES	VENEZUELA	GRAND TOTAL
PLASTIC: Food Bags/Wrappers	1188	5	94	4148	215901	25703	309809
Salt Bags	9	0	1	0	6501	0	10860
Trash Bags	231	0	46	39	37618	9430	81039
Other Bags	224	0	35	8758	61120	699	113706
Beverage Bottles, Soda	3258	94	359	8609	121852	18026	202808
Bleach Bottles	235	0	81	6	12957	6557	39017
Milk/Water Gallon Jugs	134	12	51	0	27633	0	40558
Oil Lube Bottles	262	0	122	5	16151	1587	38079
Other Plastic Bottles	596	52	151	1	36750	7504	73168
Buckets	29	6	14	1	8423	2821	16236
Caps/Lids	791	0	156	7488	174183	3568	236942
Cigarette Butts	85	0	0	3531	800358	0	912771
Cigarette Lighters	34	2	19	631	24407	1397	33975
Cups/Utensils	224	4	32	1852	76275	18891	128222
Diapers	93	0	36	229	7797	5474	19512
Fishing Line	75	0	2	2254	26688	0	35874
Fishing Floats/Lures	12	0	7	371	13059	0	17987
Fishing Nets	126	0	10	1812	7232	1415	17376
Hard Hats	1	0	3	0	809	0	2539
Light Sticks	13	0	42	7	11334	0	16371
Plastic Pieces	774	19	93	10389	247103	27911	371229
Pipe Thread Protectors	3	0	1	0	4094	0	5958
Rope	343	0	31	8422	62761	0	97661
Long Sheeting	9	0	0	28	3822	0	9710
Short Sheeting	3	0	0	0	8345	1972	18612
Six-Pack Holders	2	0	28	524	19569	9441	39677
Strapping Bands	4	0	1	1879	16400	994	28791
Straws	35	17	11	4525	131625	21576	187437
Syringes	18	0	3	162	3672	1383	7851
Tampon Applicators	0	0	4	597	11733	1491	18042
Toys	36	0	12	1091	17641	3861	34729
Vegetable Sacks	11	0	0	230	6359	0	11801
Write Protection Rings	2	0	0	0	6634	2	9068
Other Plastic	271	1	51	4143	85607	33168	169558
FOAMED PLASTIC: Buoys	72	0	31	157	11654	2501	21010
Cups	1316	0	70	1479	99437	39	119817
Egg Cartons	26	2	19	1	4998	0	9146
Fast Food Containers	118	0	66	1301	28611	3275	42485
Meat Trays	14	0	3	0	12137	0	17340
Packaging Material	105	0	19	1540	45358	909	58684
Foamed Pieces	2541	0	116	7144	218972	0	291278
Plates	327	0	98	0	19389	7	29694
Other Foamed Plastic	92	0	63	260	35873	25675	77106
GLASS: Beverage Bottles	1269	44	551	1533	135982	1192	185597
Food Jars	128	10	59	2	10361	13026	33769
Other Bottles/Jars	218	210	93	0	18985	0	37554



FIGURE 19. 1995 International Marine Debris Raw Data Summary, cont.

DEBRIS ITEM	TRINIDAD&TOBAGO	TURKEY	TURKS & CAICOS	UNITED KINGDOM	UNITED STATES	VENEZUELA	GRAND TOTAL
Fluorescent Light Tubes	82	12	10	0	2101	1124	5608
Light Bulbs	70	0	26	197	6127	0	10343
Glass Pieces	996	0	104	3476	141491	40075	240742
Other Glass	66	5	50	6	15676	25647	49364
RUBBER: Balloons	0	0	0	533	28774	960	33916
Condoms	7	0	12	352	6241	635	10005
Gloves	6	0	0	338	11897	1149	17103
Tires	4	0	14	247	8081	2554	17238
Other Rubber	187	6	36	2562	26979	7146	55366
METAL: Bottle Caps	97	39	304	1780	77598	35369	146829
Aerosol Cans	161	4	45	682	10644	0	20761
Beverage Cans	244	62	229	6487	135613	476	189706
Food Cans	54	3	2	413	10635	17969	40027
Other Cans	25	8	35	0	9502	8568	25156
Crab/Lobster Traps	2	0	0	0	2859	888	5277
55 Gallon Rusty Drums	19	0	0	124	2176	590	6355
55 Gallon New Drums	0	0	0	26	339	0	968
Metal Pieces	45	15	30	2078	29775	6700	51507
Pull Tabs	5	0	0	1	23200	8489	39822
Wire	14	22	19	790	11452	3168	23310
Other Metal	49	15	0	2677	34234	6803	53841
PAPER: Bags	236	0	71	849	31956	9655	63467
Cardboard	125	0	60	707	26905	589	41520
Cartons	186	0	30	1003	17894	9679	43930
Paper Cups	76	0	85	264	38649	1228	52285
Newspaper/Magazines	126	0	68	407	23542	867	39240
Paper Pieces	412	0	44	4555	172750	15864	226209
Paper Plates	71	0	37	0	13752	7354	29465
Other Paper	143	3	0	1169	39854	15964	69957
WOOD: Crab/Lobster Traps	71	0	0	52	1836	0	4719
Crates	15	0	0	91	1592	0	4704
Lumber Pieces	396	7	49	2871	57700	352	102005
Pallets	8	0	0	72	3633	16054	31168
Other Wood	13	3	13	1813	22309	21146	77034
CLOTH: Clothing/Pieces	76	12	81	2964	55812	8663	91811
TOTAL ITEMS/COUNTRY	19444	694	4138	124735	4057748	527220	6201211

# APPENDICES

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## APPENDIX 1. Countries Participating in the International Coastal Cleanup, 1989-1995

COUNTRY	1989	1990	1991	1992	1993	1994	1995
Anguilla (UK)					X	X	
Antigua & Barbuda				X			
Argentina				X	X	X	X
Aruba					X		
Australia				X			
Austria							X*
Bahamas				X	X	X	X
Bahrain					X	X	X
Bangladesh						X	X
Barbados				X	X	X	X
Belgium							X*
Belize				X	X	X	X
Bermuda					X	X	
Brazil					X	X	X
British Virgin Islands (UK)			X	X	X	X	X
Cameroon						X	X
Canada	X	X	X	X		X	X
Cayman Islands (UK)						X	X
Colombia						X	X
Costa Rica						X	X
Croatia						X	X
Cuba			X	X	X		
Cyprus			X	X		X	X
Denmark				X			
Dominican Republic				X	X	X	X
Ecuador					X	X	X
Egypt						X	X
El Salvador						X	
Estonia						X	
Federated States of Micronesia					X	X	
Finland				X			
France							X*
Germany							X*
Gibraltar (UK)						X	X
Greece			X	X	X	X	X
Grenada				X	X	X	X
Guatemala		X			X	X	X
Guyana							X
Hong Kong				X		X	X
Indonesia				X	X	X	
Israel			X	X	X	X	X
Italy					X	X	X*

**APPENDIX 1. Countries Participating in the International Cleanup, 1989-1995, cont.**

COUNTRY	1989	1990	1991	1992	1993	1994	1995
Ivory Coast					X	X	X
Jamaica					X	X	X
Japan		X	X	X	X	X	X
Kenya					X	X	X
Latvia						X	X
Lithuania					X	X	X
Malaysia				X		X	X
Maldives							X*
Malta						X	X
Marshall Islands					X	X	X
Mexico	X	X	X	X	X	X	X
Montserrat (UK)						X	
Netherlands							X*
Netherlands Antilles			X	X	X	X	X
New Zealand				X	X		X
Nigeria				X		X	X
Norway				X		X	X
Pakistan				X			
Palau						X	X
Panama				X	X	X	X
Peru						X	
Philippines						X	X
Poland					X	X	X
Portugal						X	X
St. Kitts and Nevis				X	X	X	
St. Lucia							X
St. Vincent and The Grenadines						X	X
Singapore				X	X	X	X
Slovenia							X*
South Korea				X	X		
Spain					X	X	X
Sweden							X*
Switzerland							X*
Thailand						X	
Kingdom of Tonga						X	
Trinidad and Tobago						X	X
Turkey					X		X
Turks and Caicos (UK)						X	X
United Kingdom			X	X	X	X	X
United States	X	X	X	X	X	X	X
Venezuela			X	X	X	X	X

\*Countries that participated with PADI Europe. (see Table 1, page 5 for details.)

## APPENDIX 2. MARPOL Signatory Countries that Participated in the 1995 International Coastal Cleanup

Each country that signs onto the MARPOL Treaty automatically agrees to the provisions of Annexes I and II, which cover oil and noxious liquid substances. Annexes III, IV, and V are Optional Annexes—a signatory may or may not sign on and thus be bound by its provisions. Annex III covers packaged hazardous substance, Annex IV covers sewage, and Annex V covers ship-generated solid wastes.

Country/Territory	Annex I&II	Annex III	Annex IV	Annex V
Argentina	X	X	X	X
Austria	X	X	X	X
Bahamas	X	X		X
Barbados	X	X		X
Belgium	X	X	X	X
Belize	X	X	X	X
Brazil	X			
Canada	X			
Colombia	X	X	X	X
Croatia	X	X	X	X
Cyprus	X			X
Ecuador	X	X	X	X
Egypt	X	X	X	X
France	X	X	X	X
Germany	X	X	X	X
Greece	X	X	X	X
Indonesia	X			
Israel	X			
Italy	X	X	X	X
Jamaica	X	X	X	X
Japan	X	X	X	X
Kenya	X	X	X	X
Latvia	X	X	X	X
Lithuania	X	X	X	X
Malta	X			
Marshall Islands	X	X	X	X
Mexico	X			
Netherlands/Neth. Antilles	X	X		X
Norway	X	X		X
Panama	X	X	X	X

**APPENDIX 2. MARPOL Signatory Countries that Participated in the 1995 International Coastal Cleanup, cont.**

Country/Territory	Annex I&II	Annex III	Annex IV	Annex V
Poland	X	X	X	X
Portugal	X	X	X	X
St. Vincent & the Grenadines	X	X	X	X
Singapore	X	X		
Slovenia	X	X	X	X
Spain	X	X	X	X
Sweden	X	X	X	X
Switzerland	X	X		X
Turkey	X			X
United Kingdom	X	X		X
British Virgin Islands*				
Cayman Islands	X	X		X
Gibraltar	X	X		X
Hong Kong	X	X		X
Turks and Caicos*				
United States	X	X		X
Venezuela	X	X	X	X
* Indicates British Crown Colonies that have not yet petitioned the United Kingdom for the adoption of MARPOL.				

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fax:225-44-41-30

#### JAMAICA

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#### JAPAN

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Clean Beach Club  
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#### KENYA

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fax:254-11-485088

#### LATVIA

Peter Bormanis  
Keep Latvia Tidy Foundation  
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#### LITHUANIA

Stasé Alenskiené  
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fax:7-370-6-21-49-33

#### MALAYSIA

Molly Fong  
The Body Shop  
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#### MALTA

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#### MARSHALL ISLANDS

Kathleen Kirkpatrick Nash  
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#### MEXICO

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Craig Caughlan  
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Group of Puerto Vallarta  
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#### Yael Bali

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Arqta. Andrea Martinez  
Covian/Ing. Nayely  
Gonzalez Gomez/  
Lic. Elsi Dominguez  
Secretaria de Ecologia del  
Gobierno del Estado  
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fax:52-99-24-67-69



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## APPENDIX 3. Country Coordinators of the 1995 International Coastal Cleanup, cont.

### **NIGERIA**

Larry Awosika  
Nigerian Institute for  
Oceanography and Marine  
Research  
tel:234-1-617-530  
fax:234-1-619-517

### **NETHERLANDS ANTILLES**

(Bonaire)  
Diana Gevers  
Keep Bonaire Clean  
Tourism Corporation Bonaire  
tel:599-7-8322  
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### (Curaçao)

Raymond E. Seebald  
IMO/REMPEITC-Carib  
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### (Saba)

Kenny Buchanan  
Saba Marine Park  
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fax:599-46-34-35

### (St. Maarten)

Elsje Wilson-Bosch, Director  
St. Maarten National Heritage  
Foundation and St. Maarten  
Museum  
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### **NEW ZEALAND**

Gael Arnold  
Island Care New Zealand  
Trust, Center for  
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tel:64-9-373-7599  
fax:64-9-373-7434

### **NORWAY**

Wanda Wynne/Fran Basich  
International School  
of Stavanger  
tel:47-51-55-91-00  
fax:47-51-55-29-62

### **NORWAY, cont.**

Paul Harstad  
tel:47-71-252-700  
fax:47-71-252-700

### **PALAU**

Rusk R. Saburo  
tel:680-488-2437

### **PANAMA**

Felipa Saavedra  
ANCON  
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fax:507-2-64-1836

Amanda Barraza  
Fundacion PROMAR  
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fax:507-261-2518

### **PHILIPPINES**

Dr. Vaughan Pratt  
International Marinelife  
Alliance-Philippines  
tel:(632)633-5687 or 633-9067  
fax:(632)631-9251

### **POLAND**

Tomasz Józwiak  
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fax:48-58-203310

### **PORTUGAL**

Lilia Fidalgo  
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Formosa Quinta de  
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fax:351-89-704-165

### **ST. LUCIA**

Charmaine Nathaniel  
St. Lucia Naturalists' Society  
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fax:809-45-32791

### **ST VINCENT & THE GRENADINES**

Clayton F. Burgin  
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tel:809-456-9729  
fax:809-456-2733

### **SINGAPORE**

Catherine Sullivan-Banner  
The Nature Society  
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fax:741-0871

### **SPAIN**

Juan A. Pérez Gragera  
Fundación Centro de  
Estudios Marinos  
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fax:34-59-38-31-69

### **SWEDEN**

Leif Hammingsson  
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### **TRINIDAD AND TOBAGO**

Louanna Martin/Elizabeth  
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fax:809-634-4488

### **TURKEY**

Pinar Can  
Vizyon Entertainment Co.  
tel:90-212-232-5692  
fax:90-212-240-3729

### **TURKS AND CAICOS ISLANDS**

Michelle Fulford  
Ministry of Local Government  
Dept. of Environment and  
Coastal Resources  
tel:809-946-2855  
fax:809-946-1895

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### **APPENDIX 3. Country Coordinators of the 1995 International Coastal Cleanup, cont.**

#### **UNITED KINGDOM**

Sam Pollard  
Marine Conservation Society  
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fax:441-989-566-017

#### **VENEZUELA**

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fax:58-2-239-6547

#### **PADI EUROPE**

Thomas Sobotta  
PADI EU Services AG  
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fax:41-52-304-1499

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## Appendix 4. Items Identified as "Most Peculiar" by 1995 International Coastal Cleanup Volunteers

BAHRAIN Aldar Island Askar Beach	boat windshield, gutter, flashlight underwear, fiberglass insulation, metal hot plate, rope ladder
BARBADOS Barclay-Cattlewash Lakes-Barclay Park Walker-Lakes Buth Beach, St. John Bathsheba	freezer, toilet brush tar, sneakers, flourescent light bulbs shotgun pellet, shoes pottery, asbestos tile tarballs, shoes
BELIZE Calabash Cay Belize City Yarbra Green Corazal New River Punta Gorda	syringe cases, "Robin" action figure corn, pumpkin, shed iguana skin, deck chair, swim fin boot, strainer, doll fossilized bones dead vulture, condoms condoms, broken boat, iron
BRAZIL Manguinhos Regencia	bicycle basket shoes
BRITISH VIRGIN ISLANDS Nanny Cay	telephone hand set, plastic ice tray
CAMEROON Mile Six Beach	229 tarballs
CANADA Vancouver Island Lower Mainland L. Ontario/R. Niagra Lake Erie Lake Huron	CB radio, crayons, bathtub hibachi grill, answering machine, santa head, radio, earplugs pink insulation vacuum cleaner, couch, refrigerator, air filter, bed frame lumber with nails
CAYMAN ISLANDS Cayman Islands	headlamp, container lifting device, underwear with holes
COLOMBIA Rodadero	bathrobe, lamp, dog's tooth, coin, fiberglass chair, pot
COSTA RICA Herradura Manzanilla	Barbie doll legs, car door, shock absorbers large plastic boat motor cover

**Appendix 4. Items Identified as "Most Peculiar" by 1995  
International Coastal Cleanup Volunteers, cont.**

CROATIA	
Split Firule	mouse, lighters, oil bottle
Slip Bavice	dead seal, syringe
Osijec	piece of a washing machine
Crgs	long rope
Trpanji	rubber boat
Opatija	chairs, funny fishing net, truck tires
DOMINICAN REPUBLIC	
Las Galeras	toy airplane
Los Puentes	oil filter
Malecon	bicycle part
ECUADOR	
Isla Santa Cruz	toy boat made from ice cream sticks, batteries, radiator tubing
EGYPT	
Wht Nights-Shark Bay	lice comb
Herbs Beach	broken chair
Sharm El Moya Coastl	oil spill, condom, old carpet
GUYANA	
Gahef Lilliandall	shotgun shells
Berbice R. Estuary	old stove, mini loom
JAMAICA	
Kingston	dead dogs
Palisadoes Strip	spray starch, typewriter, piggy bank, vial of blood, car parts
Braco Fishing Beach	Canadian quarter, piece of crashed airplane
Montego Bay	umbrella, piece of stove, fire extinguisher
KENYA	
Mombasa	tampon applicator, baby bottle nipple, human corpse, syringes
Watamu	oar, plastic toy soldier, doll's arms, umbrella handle
Kikabala	oil filter
Southcoast	pine wood village, skull on unknown animal
MARSHALL ISLANDS	
Coral Sands Beach	hair comb, yellow bow, mattress pad, bike basket
Emon Beach	full ketchup bottle, snorkel, lego, pen top, sandals
MEXICO	
Jalisco	glasses, soap, stoves
Akumal	refrigerator
Campeche	car door handle, car seat cover, refrigerator parts
Puerto Vallarta	grill, outboard motor, glove compartment of a car

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#### Appendix 4. Items Identified as "Most Peculiar" by 1995 International Coastal Cleanup Volunteers, cont.

##### NETHERLANDS ANTILLES

Bonaire  
Marie Pampoer  
unopened bottle of perfume, toilet seat, vaporizer  
eight tires

##### NEW ZEALAND

Raoul Island  
Long Bay Region Park  
Orewa  
part of axel, large fishing vessel  
umbrella  
headless dead sheep

##### NIGERIA

Victoria Island  
rusty iron, plastic foamed slippers

##### NORWAY

Sele  
Stavanger  
Helleosoy  
sneakers, piece of a dresser  
red brick & barbed wire  
asthma inhaler

##### PALAU

Koror  
Palau Resort Beach  
old japanese bottle  
plastic headlight panel

##### PANAMA

Waterworks  
Multipurpose Trail  
Beach 1  
Beach 2  
bottle of mayonaise, roofing material, stove, refrigerator  
car battery, air conditioning hose from a car, a bus  
half of a carburator  
aerosol can of starch

##### PHILIPPINES

Boac, Marinduque  
Camiguin  
Minila Bay  
Puerto Princesa Cty  
medicine packets  
used sanitary napkins, tin cans  
water lilies  
suitcase

##### SINGAPORE

East Coast Park Beach  
Changi Beach  
Pasir Ris  
lantern, shoulder pad, baby rattle, toothbrush, helmet, candles  
stuffed toy penguin, chair cushion, Chinese decoration  
wooden gate, chair

##### SPAIN

Huelva/Punta Umbria  
chair, lubricant, Chinese coffee

##### ST VINCENT & THE GRENADINES

Kingstown  
seeds from Orinoco Basin

##### SWEDEN

Gpltstoon/Selpngersn  
Alviks Hamn  
stolen car, bicycles, electrical cable  
my diving knife lost two months ago

**Appendix 4. Items Identified as "Most Peculiar" by 1995  
International Coastal Cleanup Volunteers, cont.**

TURKEY Istanbul	razor blades, toilet seat, chair
TURKS & CAICOS Nooky Hill Beach Five Cays Beach	car muffler, fire extinguisher large electrical coil
UNITED STATES	
ALABAMA	electrical circuit panel, kite, surf board, bumper
ALASKA	propane tank, floating marker with Asian writing, baseball
CALIFORNIA	video tape, camp stove, pentax lens cover, lipsticks, door hinge
CONNECTICUT	rubber pipe from motor boat, broom, paint brush, squirt gun
DELAWARE	television, basketball, clay pigeons, respirator, toothbrush
DISTRICT OF COLUMBIA	gas light, electric sump pump, crack pipe
FLORIDA	complete bed, sheets, and covers, vacuum cleaner, 2 beepers
GEORGIA	plastic army men, photo of beat up guy, toy pistol, quilt
GUAM	electrical circular saw, fan cover, baby walker, door knob
HAWAII	two blankets, foam mattress, car muffler, plastic toy horse
IDAHO	steel bar, fishing pole, sock, porcelain spittoon
ILLINOIS	175 pound wooden beam with 1" steel spikes, underwear
INDIANA	turkey timer, inhaler, chap stick, velcro band strip
LOUISIANA	razor, school books, toilet, plastic bicycle
MAINE	full bottle of Ranch salad dressing, insulation strip, plastic duck decoy
MARYLAND	plastic bed pan, eyeglasses, fire extinguisher, weather box
MASSACHUSETTS	sewer pipe, two bicycles locked together and striped, plastic air mattress
MICHIGAN	used flares, bowling ball, outboard motor, nail glue tube
MINNESOTA	mattress springs, pick ax inside of an old radio or television, sleeping bag
MISSISSIPPI	tent, jewelry box, air tank, earplug, medicine, television tube
MISSOURI	railroad tie
NEVADA	two and half toilet seats
NEW HAMPSHIRE	escape hatch for a lobster trap, engine block, bow for a package
NEW JERSEY	bedframe, styrofoam cube, pillow, window frame, table saw
NEW MEXICO	pencil, full can of Bud Lite, swim trunks, shoe sole
NEW YORK	American flag, paint brush, carbtorator, lawn mower, beg spring, aerosol can, foreign newspaper, side of building, copier
NORTH CAROLINA	lantern, china napkin rings, \$20 bill, Pamlico Net with chains & floats, screwdriver, electric outlet
OHIO	tractor tire, purse, false teeth, battery top, horseshoe, welcome mat, hubcap, bedsprings, lug nut
OREGON	bed springs, wire hangers, car hood, oven rack, propane bottle
PENNSYLVANIA	safety outlet cover, sneaker, bottle of soda pop, car mat
PUERTO RICO	razors, frying pan, scale, plastic colander, two connected IV bags
RHODE ISLAND	bra, paint brushes, ball cap, skill saw, television, shovel tank
SOUTH CAROLINA	urine sample, plastic bottle with a penny and newspaper article
TENNESSEE	tennis shoe, men's underwear, paintbrush, metal fence & pipe

---

**Appendix 4. Items Identified as "Most Peculiar" by 1995  
International Coastal Cleanup Volunteers, cont.**

UNITED STATES, cont.

TEXAS

VIRGINIA

WASHINGTON

WEST VIRGINIA

WISCONSIN

spoon, bumper, hood of a car, steak, lipstick, retainer, kimono  
plastic shoe, table, grocery cart, ice cube tray, garden hose,  
nuclear waste tag  
gill net, 12-volt Sears "Diehard" battery, rusted chain  
butterknife blade, large pieces of metal, medicine bottle  
ladder step for boat, fish skulls, skateboard

# APPENDIX 5. Data Card Used by 1995 International Coastal Cleanup Volunteers, front

## INTERNATIONAL COASTAL CLEANUP DATA CARD

Thank you for completing this data card. Answer the questions and return to your area coordinator or to the address at the bottom of this card. This form is designed for international use, therefore, not all listings may apply to your area. Data collected since 1986 and analyzed by the Center for Marine Conservation (CMC) has been used in CMC's International Marine Debris Database and Cleanup Reports to help develop solutions to stopping the dumping of trash into marine/aquatic areas. By completing the section below, you will be able to receive this information.

Today's Date: Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_ Name of Coordinator \_\_\_\_\_

Zone Name/Location Cleaned \_\_\_\_\_ Nearest City/County \_\_\_\_\_

Number of people working together on this data card \_\_\_\_\_ Estimated distance of beach cleaned \_\_\_\_\_

Number of bags filled \_\_\_\_\_ Total Estimated Weight \_\_\_\_\_

Name \_\_\_\_\_ Affiliation \_\_\_\_\_

Address \_\_\_\_\_ Occupation/Employer \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Country \_\_\_\_\_ Zip Code \_\_\_\_\_

Phone ( \_\_\_ ) \_\_\_\_\_ Age \_\_\_\_\_ How did you hear about the Cleanup? \_\_\_\_\_

Is this your first Cleanup event?  Yes  No If no, how many years have you participated prior to this Cleanup? \_\_\_\_\_

Do you currently receive the International Coastal Cleanup newsletter, *Coastal Connection*?  Yes  No

If not, would you like to be placed on the mailing list?  Yes (please list address above)  No

Would you like to receive information on the Center for Marine Conservation and other ways to help protect our oceans and waterways?  Yes  No

### SAFETY TIPS

1. Do not go near any large barrels or drums.
2. Be careful with sharp objects and syringes.
3. Wear gloves and closed-toe shoes.
4. Stay out of the dunes and natural areas.
5. Watch out for wildlife.
6. Don't lift anything too heavy.

**WE WANT YOU TO BE SAFE**

### DEAD, LIVE AND/OR ENTANGLED ANIMALS (Be as specific as you can.)

Type of Animal	Form of Entangling Debris	Comments

FOREIGN LABELS: Please list all items with foreign labels or other markings to help us identify the item's origin such as cruiseline names, military identification or debris with names and/or address of shipping, fishing, or oil/gas exploration companies. Please do not list items that are common to your local area, i.e. imported water or beer.

Label or other markings	Type of item
Example: ABC Shipping Company	plastic strapping band

What was the most peculiar item you collected? \_\_\_\_\_

Comments/Observations during the cleanup \_\_\_\_\_

### Type of waterway cleaned:

- ocean/gulf/bay/sound
- lake
- pond
- river
- stream
- underwater dive

© 1995 Center for Marine Conservation

Please return this card to your area coordinator or mail it to:

**CENTER FOR MARINE CONSERVATION**  
 Atlantic Regional Office  
 306 A Buckroe Ave.  
 Hampton, VA 23664  
 USA



**Center for Marine Conservation**  
 A Membership Organization

Printed on recycled paper, using soy-based ink.



# APPENDIX 5. Data Card Used by 1995 International Coastal Cleanup Volunteers, back

## ITEMS COLLECTED

You may find it helpful to work with a buddy as you clean the area, one of you picking up trash and the other taking notes. An easy way to keep track of the items you find is by making tick marks. The box is for total items; see sample below.

Example: egg cartons ||||| TOTAL  cups ||||| TOTAL

### PLASTIC

	Total number of items	Total number of items	
bags:			
food bags/wrappers	<input type="text"/>	fishing nets	<input type="text"/>
salt	<input type="text"/>	hard hats	<input type="text"/>
trash	<input type="text"/>	light sticks	<input type="text"/>
other bags	<input type="text"/>	pieces	<input type="text"/>
bottles:		pipe thread protector	<input type="text"/>
beverage, soda	<input type="text"/>	rope	<input type="text"/>
bleach, cleaner	<input type="text"/>	sheeting	
milk/water gal. jugs	<input type="text"/>	longer than 2 feet	<input type="text"/>
oil, lube	<input type="text"/>	2 feet or shorter	<input type="text"/>
other bottles	<input type="text"/>	6-pack holders	<input type="text"/>
buckets	<input type="text"/>	strapping bands	<input type="text"/>
caps, lids	<input type="text"/>	straws	<input type="text"/>
cigarette butts	<input type="text"/>	syringes	<input type="text"/>
cigarette lighters	<input type="text"/>	tampon applicators	<input type="text"/>
cups, utensils	<input type="text"/>	toys	<input type="text"/>
diapers	<input type="text"/>	vegetable sacks	<input type="text"/>
fishing line	<input type="text"/>	"write protection" rings	<input type="text"/>
fishing lures, floats	<input type="text"/>	other plastic (specify)	<input type="text"/>

---

### FOAMED PLASTIC

buoys	<input type="text"/>	packaging material	<input type="text"/>
cups	<input type="text"/>	pieces	<input type="text"/>
egg cartons	<input type="text"/>	plates	<input type="text"/>
fast food containers	<input type="text"/>	other foamed plastic (specify)	<input type="text"/>
meat trays	<input type="text"/>		

---

FOLD ALONG THIS LINE

### GLASS

bottles/jars:		fluorescent light tubes	<input type="text"/>
beverage bottles	<input type="text"/>	light bulbs	<input type="text"/>
food jars	<input type="text"/>	pieces	<input type="text"/>
other bottles/jars	<input type="text"/>	other glass (specify)	<input type="text"/>

---

### RUBBER

balloons	<input type="text"/>	tires	<input type="text"/>
condoms	<input type="text"/>	other rubber (specify)	<input type="text"/>
gloves	<input type="text"/>		

---

### METAL

bottle caps	<input type="text"/>	55 gallon drums:	
cans:		rusty	<input type="text"/>
aerosol	<input type="text"/>	new	<input type="text"/>
beverage	<input type="text"/>	pieces	<input type="text"/>
food	<input type="text"/>	pull tabs	<input type="text"/>
other	<input type="text"/>	wire	<input type="text"/>
crab/lobster traps	<input type="text"/>	other metal (specify)	<input type="text"/>

---

### PAPER

bags	<input type="text"/>	newspapers/magazines	<input type="text"/>
cardboard	<input type="text"/>	pieces	<input type="text"/>
cartons	<input type="text"/>	plates	<input type="text"/>
cups	<input type="text"/>	other paper (specify)	<input type="text"/>

---

### WOOD

(leave driftwood on the beach)

crab/lobster traps	<input type="text"/>	pallets	<input type="text"/>
crates	<input type="text"/>	other woods (specify)	<input type="text"/>
lumber pieces	<input type="text"/>		

---

### CLOTH

clothing/pieces

**Remember to turn the card over and fill out your name and address and to record sources and entangled wildlife!**

---

## Appendix 6. Sponsors of the 1995 International Coastal Cleanup, by Country

### ARGENTINA

Bomberos Voluntarios Miramar  
Cal 2 - Miramar  
Dept. Ciencias del Mar—  
Instituto Antártico Argentino  
Down Town Plaza  
Hospital Municipal  
L & S Computación  
La Casona  
Municipalidad de General Alvarado  
Oceano  
Policía de la Provincia de Buenos Aires  
Radio Mágica  
Radio Marina  
Roberto Lavignolle  
Rolleri-Rovira-Vega & Asoc.

### BAHAMAS

Bowen Sound Primary Parent/Teacher  
Association  
Donna Lee Crawford  
Small Hope Bay Lodge

### BAHRAIN

H.H. Shaikh Sulman Binhamad Alkhalifa  
Rotary Club of Salmaniya

### BANGLADESH

M/S Helieks Ltd.  
Trendtrade Marketing Ltd.

### BARBADOS

Barbados National Trust Ministry of Tourism  
National Conservation Commission

### BELIZE

Belize City Council  
Belize Defence Force  
Belize Electricity Limited  
Belize Teachers College  
Belize Tourist Board  
Belize Waste Control Ltd.  
Bowen & Bowen Ltd.  
Department of the Environment  
Grace Kennedy (Belize) Ltd.  
James Brodie & Co. Ltd.  
Malic's Poultry  
NARMAP  
Northern Fishermen Cooperative  
Society Ltd.

### BRAZIL

Paulo Finoberg's Family  
FEMAR Faculty  
Fundação Brasileira para a  
Conservação da Natureza (FBCN)  
Museu Oceanográfico  
Nova Iguaçu Teachers  
Projecto Baía Viva  
Projecto TAMAR-IBAMA

### BRITISH VIRGIN ISLANDS

Girl Guides  
Mrs. P. Haycraft

### CAMEROON

World Wide Fund For Nature

### CANADA

Adopt-a-Shoreline  
BC Environment  
Burrard Inlet Environmental Action Program  
City of Port Moody  
City of Vancouver  
Department of Fisheries and Oceans  
District of North Vancouver  
District of West Vancouver  
Environment Canada  
Greater Vancouver Regional District  
Home Hardware  
Vancouver Port Corporation

### CAYMAN ISLANDS

Aquanauts  
Bob Soto's Diving  
Burger King  
Cayman Aggressor  
Caymarl Dredge Ltd.  
Department of Environment  
Eden Rock  
International College Cayman  
Oceanic Corp (USA)  
Parrots Landing  
Quabbin  
Thompson Shipping  
Z 99 Radio

---

## Appendix 6. Sponsors of the 1995 International Coastal Cleanup, by Country, cont.

### COLOMBIA

Base Naval del Atlantico  
BUZCA  
CARACOL  
CCS Publicidad  
CIOH  
Cerveza Polar  
Ciudad Limpia  
Coca Cola  
Colegio Bilingue  
Colegio Britanico  
Colegio Comfenalco  
Colegio INEM  
Colegio Jorge Washington  
Colegio Victoria Bozzio  
CONAVI  
Cruz Roja  
DAMARENA  
Disantamaría  
El Periodico de Cartagena  
El Universal  
Escuela de Buceo del Caribe  
Fondo Mixto de Promoción Turística de Cartagena  
Fundación Islas del Rosario  
Fundación Mamonal  
Hotel Flamingo  
Hotel Ibatama  
INPA  
INVERFIN  
La Tortuga Dive School  
LIME  
Marina Santacruz  
Mobil de Colombia  
Naval School of Cartagena  
Promotora de Turismo  
Postobon  
TECNISCREEN  
Universidad del Magdalena  
Universidad Jorge Tadeo Lozano  
Yates ALCATRAZ

### COSTA RICA

Asociación de Desarrollo Manzanillo  
Canatur-Camara Nacional de Turismo  
CATCAS-Camara de Turismo del Caribe Sur  
Centro De Conservación Y Desarrollo Sostenible de  
  los Ecosistemas Costeros- Codesecos  
Club Ecológico Yiski

### COSTA RICA, cont.

EARTH-Escuela de Agricultura de la Región  
  Tropical Húmeda  
Ecotreks  
Fundación Ríos Tropicales  
Jovenes Baha'i en Acción  
Kodak/IFSA  
Marian Baker School  
Peace Corps Volunteer Michele Farner  
Viajes Horizontes

### CROATIA

ACQUA SUB, Rijeka  
ADRIAPHARM  
ADRIA PROGRES  
Caffe bar PLAVA LAGUNA  
Coca-Cola International  
Fotokopirnica QUICK  
IND-EKO, Rijeka  
KP "USLUGA" Porec  
Ljekarna LUCAC  
Market PALAGRUZA  
"MIRAMARE" d.o.o. Rovinj  
MUNICIPAL AUTHORITIES OF  
  CRIKVENICA  
MUNICIPAL AUTHORITIES POREC  
Plesna grupa VRUCA COKOLADA  
Papirnica GRAZIA  
Restaurant LIJEPA DALMACIJA  
SCHMIDT-Handelsagentur  
SUNADRIA, Rijeka  
Turisticka zajednica Zupanije  
Videoteka BLATINE  
"VIKTOR LENAC" Shipyard, Rijeka  
"ZIDARIC" d.o.o. Rovinj  
"1.MAJ" Labin  
"3.MAJ" SHIPBUILDING INDUSTRY, Rijeka

### DOMINICAN REPUBLIC

Agua Santa Bárbara  
Asoc. De Dueños de Barcos de Samaná  
Asoc. De Pescadores Señorita Elupina Cordero  
Ayuntamiento Municipal  
Casa Almonte  
Casa Cambero  
Casa Carrasco  
Casa Chavan  
Cia. Embotelladora

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## Appendix 6. Sponsors of the 1995 International Coastal Cleanup, by Country, cont.

### DOMINICAN REPUBLIC, cont.

Colmado Caico  
Distribuidora Pucho José  
Dr. Vicente  
Farmacia Mercedes  
Farmacia Sánchez  
Gabriel Pimentel  
Hotel Cayacoa/Occidental Hoteles  
Iglesia Católica/Andrés Savard M.S.  
José J. Ramirez  
Junta de Asociaciones Campesinas de Samaná (JACASA)  
Los Tres Farolitos/Sr. Adael de León  
Marina de Guerra  
Narciso Estévez  
P. André Dumas M.S.  
Res. Las Malvinas  
Rolando Reyes  
SOPROECO  
Sr. Cervantes M. Barba  
Sr. Miguel A. Rodriguez  
Super Colmado El Gallo  
Super Mercado El Gallo  
Supermercado Amigo/Sra. Jacqueline Lora de Bezi  
Supermercado Los Pinos/Sr. Noel Caccavelli  
Tavarez Comercial  
TV 3 Samaná  
Victoria Marine/Ms. Kim Beddall

### ECUADOR

Agrupación Ecológica Crear con Ciencia  
Almacen Peer  
Almacenes Geminis 1  
Anónimo  
Asociación de Larveros Río Jubones  
Banco del Pichincha  
Banco del Tungurahua  
Blanca de Paredes  
Bodega Continental  
Bodega Santa Cruz  
Botiquin la Economía  
Boutique Vermillón  
Cámara de Comercio de Bahía de Caráquez  
Capitanía del Puerto de Bahía de Carquez  
Capitanía del Puerto de Esmeraldas  
Capitanía del Puerto de San Lorenzo  
Casa Verde

CESA  
Cheap Burger Galápagos  
CIVOL  
Club de Guías  
Club Rescate Ecológico  
Comercial Avila  
Comercial Las Acacias  
Comercial Nachita  
Comercial Rosado  
Comercial Tungurahua  
Comuna de San Pedro  
Comuna de Valdivia  
Cooperativa de Transporte Morán Valverde  
Corporación Ecuatoriana de Turismo (CETUR)  
Créditos Populares  
Despensa Primavera  
Despensa Zulamita  
Dirección Provincial de Educación de El Oro  
Dooña conchita  
Farmacia Aida Maria  
Ferreteria Central  
Filanbanco  
Frigocarnes El Arbolito  
Fudación El Agua  
Fudación Propueblo  
Galápagos Galery  
Grupo de Madereros Voluntad de Dios  
Hospital de Manglaralto  
Hotel Angermeyer  
Hotel New Elizabeth  
Imprenta Guayaquil  
Instituto Ecuatoriano Forestal y de Areas Naturales y Vida Silvestre (INEFAN)  
La Chacrerita  
La Trattoria de Pippo  
La Universal  
Margarita Paredes  
Multifiltros  
Mundo Naturista  
Municipio de Atácames  
Municipio del Cantó Sucre  
Municipio de Playas  
Municipio de Santa Elena  
OCEANLAB  
PACIFICOTOURS  
Panaderia el Buen Pan

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## Appendix 6. Sponsors of the 1995 International Coastal Cleanup, by Country, cont.

### **ECUADOR, cont.**

Parrillada Don Guillo  
Pizzeria Media Luna  
PLASCOE  
Restaurante la Langosta  
Restaurante Francis Drake  
Restaurante Viña del Mar  
Sra. Margarita Parrales  
Tienda Danny  
Tienda Elizabeth  
Tienda Janeth  
Tienda Luisito  
Top Cream  
Yate Pulsar

### **EGYPT**

AA Gadis  
African Divers  
Aida Beach Hotel  
Aladin  
Amigo  
Anemone Dive Centre  
Ankram Travel  
Aquamarine Diving Centre  
Aquanaute Diving Centre  
Bagabond  
Baraca  
Bashayer  
Best Tours Best Egypt  
Cali International Diving Centre  
Camel Dive Club  
Casino Royale  
Cataract Leilina  
Catherine  
Cliff Top Hotel  
Coca Cola  
Colona Dive Club  
Coral Bay  
Dar Um Sid Restaurant  
Discover Scuba Ocean Quest  
Divers' Lodge  
Eastmar  
Falcon Al Diar  
Federal Express  
Ghazala Hotel  
Golden Palace Resort  
Helnan Marina Sharm  
Hilton Fayrouz Resort

Hilton Residence  
Hyperbaric Medical Centre  
Kanabesh Village  
King Snefro Club  
Kodak  
LTI Seti Sharm  
Mexx  
Multi-National Forces Observers  
Naama Safari  
National Travel Service  
Novotel Sharm El Seheikh  
Oonas Divers  
Poseidon Quest  
Ras Mohamed National Park  
Red Sea Diving Club  
Red Sea Diving College  
Safari  
Sanafir  
Scuatour Diving World  
Sharm El Sheikh Movenpick Jolie Ville  
Shamandura  
Sharm Mall  
Siag Travel  
Sinai Dive Club Sharm  
Sinai Divers  
Sinai Wildlife Projects  
Sonesta Beach Resort  
Subex  
Sun 'n' Fun  
Tebba Company  
Travco  
Tropicana Hotel  
Youssri

### **GUATEMALA**

Columbus Zoo  
Japan Fund for Global Environment  
Kerns  
MacDonald's  
Pepsi  
Rotary Club  
Siglo XXI

### **GUYANA**

Catholic Standard  
Community Development Committee,  
No. 63 Village

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## Appendix 6. Sponsors of the 1995 International Coastal Cleanup, by Country, cont.

### **GUYANA, cont.**

Hotel Tower  
Demico House/Banks DIH  
Georgetown City Council  
Guyana Chronicle  
Guyana Pharmaceutical Corp.  
Guyana National Energy Authority  
Roman Catholic Diocese  
Social Impact Amelioration  
Programme (SIMAP) Agency  
Stabroek News

### **ISRAEL**

Center for Marine Conservation  
EcoPeace  
Eilat Environmental Unit  
Israel Diving Federation  
Ministry of the Environment  
Nature Reserves Authority

### **IVORY COAST**

Ash International  
Ministry of Environment and Tourism  
Port Autonome d'Abidjan  
Société Ivoirienne de Raffinage

### **JAMAICA**

Deli Works  
D&G Ltd.  
Jamaica Flour Mills Ltd.  
JPS  
Metropolitan Parks and Markets  
West Indies Home Contractors Ltd.  
Wisynco Trading Ltd.

### **JAPAN**

Arsoa  
Bank of the Ryukyus International  
Foundation  
The Beverage Industry Environment  
Beautification Association  
Circle K Japan Co., Ltd.  
Clean FUKUOKA, Gommi Busters  
Dunlop Home Products Ltd.  
Earth Environmental Fund  
Ebara Corporation  
ESSO  
Japan Environmental Action Network

Kanagawa Beach Cleaning Foundation  
Malibu Beach Resort  
Maritime Safety Agency  
(11th Regional Headquarters)  
Marui Pro Surfing Contest  
Meiji Dairy Products Inc. Okinawa  
NEC  
Okinawa Prefecture:  
  Environment Preservation  
  Public Sanitation Division  
  Tourism Promotion Division  
Okinawa Junior Chamber International Japan  
Okinawa Visitor's Bureau  
Pacific Art Gallery (Camp Foster)  
Patagonia International, Inc. Japan Branch  
Professional Driving School,  
  Denver, Colorado  
Radio Okinawa R.O.K. JOXR 783 KHz  
Ryukyu Broadcasting Company RBC  
Sankus and Associates  
Sanyo Electric Co., Ltd.  
Sapporo Beer  
Sendai Technology Center  
Service Creation Co. JAL Group  
Sony Corporation  
Taishi Communications Inc.(Gevent)  
WWF-Japan  
Yasushi Tamanaha

### **KENYA**

African Sea Lodge  
Aquaventures  
Bamburi Beach Hotel  
Bamburi Portland Cement Company Ltd.  
Baobab Farm Ltd  
Baobab Trust  
Coral Beach Hotel  
Danny's Group  
Diani Reef Grand Hotel  
Diani Sea Lodge  
Diani Sea Resort  
Dolphine Beach Hotel  
Flamingo Beach Hotel  
Golden Beach Hotel  
Hamingways  
Intercontinental Resort  
Jadini Beach Hotel  
Mr. Jessop's group

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## Appendix 6. Sponsors of the 1995 International Coastal Cleanup, by Country, cont.

### **KENYA, cont.**

Kenya Beach Hotel  
Kenya Wildlife Service  
Lagoon Reef Hotel  
Leisure Lodge  
Leopard Beach Hotel  
LTI Kaskazi Sea Resort  
Malaika Beach Hotel  
Mombasa and Coast Tourist  
Association  
Mombasa Beach Hotel  
Neptune Beach Hotel  
Neptune Paradise  
Neptune Village  
Nomad Beach Hotel  
Nyali Beach Hotel  
Ocean sports  
Oshwal Academy  
Palm Beach Hotel  
Paradise Beach Hotel  
Safari Beach Hotel  
Serena Beach Hotel  
Severin Sea Lodge  
Shanzu Beach Hotel  
Southern Palm Beach Resort  
Sun N' Sand Beach Hotel  
Travellers Beach Hotel  
Turtle Bay Beach Club  
Whispering Palm Beach Hotel  
Whitesands Beach Hotel  
Wildlife Clubs of Kenya  
Yacht Club

### **LATVIA**

ASPTR Ltd.  
Keep Sweden Tidy Foundation  
Latvian Topper Club  
Latvian Underwater Sports  
Federation  
MAN-TESS Ltd.  
Riga Yacht Centre ANDREJOSTA  
TAKATS Ltd.

### **LITHUANIA**

K. Donelaitis Secondary School of Klaipėda  
Municipal Economy of Klaipėda City

### **MALTA**

E. Calleja & Sons Ltd  
Malta Maritime Authority  
MaltiBuss Limited  
Environment Secretariat  
Octopus Garden Diving Centre  
Silhouette Photography  
Simonds Farsons Cisk Ltd  
Xerox Copy Centre

### **MALAYSIA**

The Body Shop  
Majlis Daerah Port Dickson  
Ming Court Port Dickson  
Penggreak  
Scuba Quest

### **MEXICO**

100% Natural  
Akumal Cancun Hotel  
Ayuntamiento Isla Mujeres  
Ayuntamiento Lázaro Cárdenas  
Baskin Robbins  
Cabañas Nohoch Tunich  
Canal 13 T.V. Cancún  
Club Robinson  
Colon Tours  
Colony Club de Playa  
Coca-Cola  
Colegio Puerto Aventuras  
Condominios Chac-halal  
Contro Ukand i Akumal  
Cooperativa de pescadores Isla Mujeres  
DIF isla Mujeres  
DIF Tulum  
Ecotur Maya  
El tacoloto (playa del Carmen)  
Escuela Secundaria Federal No.8  
Escuela Secundaria Técnica No.8 Fotografía Omega  
Fundacion de Parques y Museos De Cozumel  
Grupo Ecologista Isla Mujeres A.C.  
Grupo Jiménez  
Hotel Continental Plaza  
Hotel La Perla  
Hotel Oasis Puerto Aventuras  
Hotel Osho Oasis  
Hotel Punta Maroma  
Hotel Ritz Carlton Company

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## Appendix 6. Sponsors of the 1995 International Coastal Cleanup, by Country, cont.

### MEXICO. cont.

Hotel Shangri - la Caribe  
Hotel Zamas  
Kukulcan Plaza  
La crónica de Cancún  
Las casitas Hotel  
Mike Maden Dive Center  
Mix FM-radio grupo ACIR  
Municipio de Solidaridad  
Naviera Asterix  
Operadora del Personal Puerto Aventuras  
Por Estol de Quintana Roo  
Radio Pirata  
Radio Turquesa  
Regional Technical Council  
Restaurant La Isla  
Restaurant Sole mio  
Savana Comunicaciones  
Sayab Arte Popular  
Sergio Papatolios y Fernández Molina  
Sociedad Cooperative de Pescadores de Servicios  
Turisticos de Puerto Jurez  
Sr. José Luis García Echegaray  
Super Cex-hana  
Super Chomak  
Super Géminis  
University of Campeche  
Villas Maya  
Xcaret  
Xel - Ha  
Zand Zea Clean Company

### NETHERLANDS ANTILLES

AKZO Nobel  
Always Green  
Amigoe  
Bala  
Beurs & Nieuwsberichten  
Black Durgon Inn  
Bonaire Art Gallery  
Bonaire Caribbean Club  
Bon Awa  
Bon Bini Divers  
Botica Bonaire  
Botica Korona  
Buddy Dive Resort  
Captain Don's Habitat

Caribbean Laundry  
Casa Nasa  
Casa Nena  
Coca Cola  
Compact S  
Cycle Bonaire  
de Antillen NV  
Don Andres  
Extra  
Flamingo Home Depot  
Flamingo TV  
Fragile Ocean  
Fundashon Cas Boneriano  
Government Information  
Harbour Village Beach Resort  
Iglesia Fuente de Aguabibo  
Interbank  
Island Grovers  
J.C. Herrera  
Kentucky Fried Chicken  
Kroon Services  
Leeward Inn  
Littman Jewelry  
Lovers Ice Cream  
Mansur  
Moret Ernst & Young  
Nobo  
Peter Hughes Diving  
Port Call  
Princess Beach Hotel  
Progreso Supermarket  
Queen Angel  
Reef Care Curaçao  
IMO REMPEITC-Carib  
Ritmo FM  
Rocargo  
Rum Runners  
SABADECO  
Samur  
Sand Dollar Beach Dive  
Sand Dollar Grocery  
Sand Dollar Home Owners  
Sandwich Factory  
SELIBON  
SGB Chess Club  
Sorobon Beach Resort  
Sunbelt Realty



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## Appendix 6. Sponsors of the 1995 International Coastal Cleanup, by Country, cont.

### NETHERLANDS ANTILLES, cont.

Tortugana  
Touch the Sea  
Ultimo Noticias  
Voz di Bonaire  
WeJeBe Nissan  
Winkel Soliana & Grul  
Youth Council

### NIGERIA

Chevron Oil Company Nigeria Ltd.  
Coca Cola  
Poly Products  
Swan Water Nigeria Ltd.  
Mr. Kim Syles of Shell Petroleum Development Corp. Nigeria Ltd.

### PADI EUROPE

German Airline LTU

### PANAMA

Banco Continental  
Banco DISA  
Brazil Market Corp.  
COPA Airlines  
DIMA  
Epic Publications  
INRENARE  
Inspecciones Jesus Diaz, S.A.  
Iztractions, S.A.  
LA PRENSA Newspaper  
Mac Grafix, S.A.  
Ministry of Education  
POLYMER, S.A.  
Revista GUIA CAMTUR  
Seguros Centralizados, S.A.

### POLAND

Elblag  
Koszalin  
Ministry of Environment  
Protection  
National Environment Protection  
and Water Management Fund  
Natural Resources and Forestry  
Provincial Environment  
Protection Funds in Szczecin  
Slupsk

### SINGAPORE

The Body Shop  
Caltex Group of Companies  
The Nature Society  
Rotary Club

### SPAIN

Almonte  
Aula del Mar de Málaga  
Autocares Romero  
Canal Sur  
Cartaya  
Center for Marine Studies  
Coca-Cola Spain  
Club Juvenil "Saltamontes" de La Fundación  
El Monte  
E.L.M. La Redondela  
El País  
Grupo ecologista SILVEMA  
Isla Critina  
Lepe  
Lepebus  
Málaga  
Mancomunidad de Mazagón  
McDonald's  
Punta Umbría

### ST VINCENT & THE GRENADINES

Ministry of Foreign Affairs and Tourism  
Ministry of Health and the Environment  
Peace Corps (SVG-Eastern Caribbean)  
St. Vincent Brewery, Ltd.  
St. Vincent & The Grenadines Ministry of Housing  
(Community Development Division)

### TRINIDAD & TOBAGO

Amoco Trinidad Oil Company  
Auto Rentals  
Boodoosingh's Grocery  
Hydo-Tech  
Mayaro - Rio Claro Regional Co-operation  
Princes Town Rotary Club  
Radio Emergency Associated Communications  
Team (R.E.A.C.T)  
Raymond Borel Service Station  
S.R. Moonan & Sons Hardware  
Schlumberger Trinidad Inc.  
Solid Waste Management Company Limited



**Center for Marine Conservation**

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Website: cmc-ocean.org