

International Coastal Cleanup



The Ocean
Conservancy

Advocates for Wild, Healthy Oceans

2002 International Coastal Cleanup

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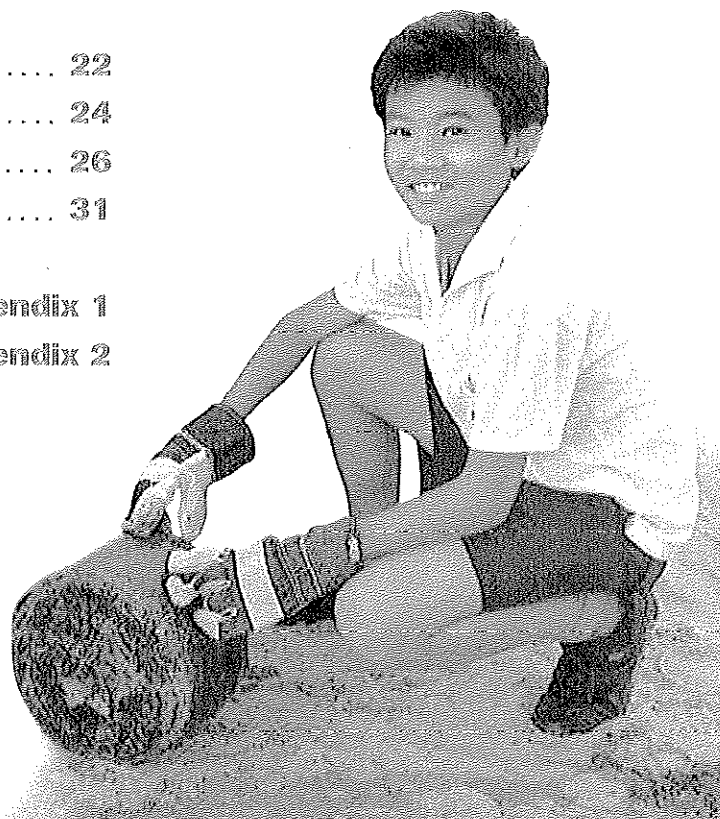
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The International Coastal Cleanup's Mission

The International Coastal Cleanup engages people to remove trash and debris from the world's beaches and waterways, to identify the sources of debris, and to change the behaviors that cause pollution.

Acknowledgements

We extend our deepest gratitude and sincerest thanks to the hundreds of thousands of enthusiastic individuals who make the ICC an international effort each year. With their help, the ICC continues to grow and improve. We thank those volunteers who return year after year, and we welcome first-time participants. Thank you for a job well done!

The ICC also requires months of detailed preparations and hard work for activities to run smoothly on cleanup day. The Cleanup would be impossible without the efforts of our ICC coordinators. They begin their work months in advance, and continue post-cleanup tasks until the New Year. Their multiple tasks range from securing local sponsors and volunteers to organizing the marine debris data. By expending extra energy, these men and women help ensure a successful cleanup for everyone involved. Thank you for your hard work, dedication, and willingness to volunteer your time to this important cause (see pages 22-25 for a complete list of 2002 coordinators).

Special thanks also go to our sponsors for their financial support and in-kind donations. Your generosity with supplies, food, beverages, services, and other gifts kept our volunteers motivated and energized for their task. We appreciate your contributions and your commitment to a cleaner marine environment (see pages 26-30 for a list of global sponsors; see pages 31-36 for a list of U.S. state sponsors).

The Problem of Debris



Marine debris. It is a pervasive plague that reaches across the globe. Cigarette butts, plastic bags, food containers, and fishing line can all be found scattered on our beaches and in our oceans. The most distressing aspect of the situation is that all marine debris can be traced back to a single source – humans. ▶▶▶

Ocean dumping is not a new phenomenon. It has been a practice for centuries. While our habits haven't necessarily changed, the nature of marine debris has – dramatically. In the last three decades, organic materials (once the most common forms of debris) have yielded to synthetic elements, like plastics, as the primary material in trash. Durable and slow to degrade, items like plastic beverage bottles,

*In the early 1990s,
land-based activities
were responsible
for 60 to 80 percent
of the world's
marine debris.*

packing straps, tarps, and synthetic fishing line create a debris source with staying power. In addition, many of these items are highly buoyant, allowing them to travel in currents for thousands of miles, endangering marine ecosystems and wildlife along the way.

According to the United Nations Joint Group of Experts on the Scientific Aspects of Marine Pollution (GESAMP), in the early 1990s, land-based activities accounted for 60 to 80 percent of the world's marine pollution. Much of the debris reaches the ocean by beachgoing activities, being blown into the water, or is carried by creeks, rivers, and storm drains to ocean areas. Other debris comes

Laws and Treaties Regulating Trash on the Sea

International Convention for the Prevention of Pollution from Ships (MARPOL 73/78)

In 1975, the National Academy of Sciences estimated that ships dumped 14 billion pounds of garbage into the ocean. The International Maritime Organization manages the International Convention for the Prevention of Pollution from Ships (MARPOL 73/78), which provides a comprehensive approach to dealing with ocean dumping by creating international guidelines to prevent ship pollution. MARPOL has six annexes, covering oil discharge, hazardous liquid control, hazardous material transport, sewage discharge, plastic and garbage disposal, and air pollution.

Annex V is of particular importance to the maritime community (shippers, oil platforms, fishermen, boaters, and cruise lines), because it prohibits disposal of plastic at sea and regulates disposal of other garbage at sea. Under Annex V, garbage includes food and domestic and operational waste – excluding fresh fish – generated during normal vessel operations and liable to be disposed of continuously or periodically. Annex V also requires ports and terminals to provide garbage reception facilities for boats. As of March 2003, 113 countries had ratified Annex V.

Cartagena Convention

The 1987 Convention for the Protection and Development of the Marine Environment of the Wider Caribbean Region – known as the Cartagena Convention – is the only legally binding environmental treaty for governing marine debris in the Wider Caribbean. The Convention and its Protocols constitute a legal commitment by participating governments to protect, develop, and manage their common waters individually or jointly. It requires adopting measures to prevent, reduce, and control pollution from ships, dumping, seabed activities, land-based activities, and airborne pollution. Adopted in Cartagena, Colombia in 1983, the Convention became the legal instrument for the implementation of the Caribbean Action Plan in 1987. Ratified by 20 countries, the Convention governs the marine environments of the Gulf of Mexico, the Caribbean Sea, and certain areas of the Atlantic Ocean.

from activities on the water, including vessels (from small sailboats to large ships), offshore drilling rigs and platforms, and fishing piers.

In addition to being an eyesore, debris can have other detrimental

effects. Items such as broken glass and syringes pose health risks to people, both in and out of the water. Debris can also cause habitat destruction, covering and smothering coral reefs and sea

Marine Plastic Pollution Research and Control Act (MPPRCA)

In order to implement Annex V of MARPOL, each individual country must develop its own national implementation legislation. In 1987, the U.S. Congress passed the Marine Plastic Pollution Research and Control Act (MPPRCA) to create legal authority to implement MARPOL-Annex V in the United States. MPPRCA applies to foreign vessels in U.S. waters, and to U.S. vessels anywhere in the world. Under MPPRCA, throwing plastic trash off any vessel within the U.S. Exclusive Economic Zone (EEZ) – within 200 miles of the U.S. shoreline – is illegal. It is also illegal to throw any other garbage overboard while navigating U.S. waters (including inland waters) or within three miles of shore. Fewer restrictions apply to non-plastic garbage farther from shore, but dumping plastics overboard in any waters, anywhere, is always illegal. The U.S. Coast Guard and the U.S. Department of Justice enforces MARPOL within the EEZ and will pursue any case brought to its attention.

In addition, some countries often have a suite of accompanying water resource laws and policies that address water quality issues within their borders. The United States, for example, has established additional policies to protect the marine environment, including:

Clean Water Act: This act established pollution discharge regulations for U.S. waters, set water quality standards, and gave the country's Environmental Protection Agency (EPA) authority over pollution control programs. (www.epa.gov/region5/water/cwa.htm)

Beaches Environmental Assessment and Coastal Health Act of 2000

(B.E.A.C.H. Act): This act amended the Clean Water Act, requiring adoption of minimum health-based water quality criteria, comprehensive water testing, and notification of the public when water contamination levels are unsafe. (www.epa.gov/waterscience/beaches/act.html)

Coastal Zone Management Act (CZMA): This act works to preserve, protect, develop, restore, and enhance the United States' coastal zone resources. (www.ocrm.nos.noaa.gov)

grasses. In addition, animal entanglement in debris is also a major concern.

While there are laws regulating the dumping of trash at sea and shore (see above for more informa-

tion), the global nature of debris, its inability to recognize territorial boundaries, and the complexity of identifying debris sources have made effective laws difficult to draft and even harder to enforce.

Activities that Produce Debris

Recreational and Shoreline Activities

Picnics, sports, games, festivals, and days at the beach can produce a variety of debris. Litter washed from streets, parking lots, and storm drains also contributes to this category of debris.

Smoking-Related Activities

Littering from smoking produces cigarette filter, cigar tip, and tobacco package debris.

Medical and Personal Hygiene

Medical and personal hygiene waste can enter the environment through improper disposal. Since it often arrives on beaches through sewer systems, its presence on shore can indicate other, unseen pollutants.

Dumping-Related Activities

Dumping items like building materials, cars and car parts, and large household items – either legally or illegally – contributes to marine debris.

Ocean/Waterway Activities

A variety of commercial, recreational, and military ocean activities – such as cruise ship operations, fishing, boating, military vessels, and even offshore oil drilling – can result in marine debris.

History of the International Coastal Cleanup

In 1985, EPA's Office of Toxic Substances contracted with the Center for Environmental Education to conduct a study of plastic marine garbage. The resulting report, *Plastics in the Ocean: More Than a Litter Problem*, was the first to identify plastics as the number one marine debris hazard. It also established the Center (now known as The Ocean Conservancy) as an authority on this emerging issue.

That same year, a staff member

(ICC) with Canada and Mexico's participation. Just three years later, 33 countries participated; in 2002, 100 nations took part – an all-time high.

In addition to increased participation, the total amount of trash collected and beaches combed has risen as well. In the past 17 years, the original 2,800 volunteers have grown to a cumulative total of 5.2 million. From 1986 to 2002, the ICC removed 89 million pounds of debris from over 130,000 miles of shoreline. The ICC continues to grow for several reasons – the

for the marine environment, the ICC is unique and effective because of its data collection. The ICC strives to trace pollution to its source, identify the activities that cause pollution and try to prevent it. But in order to stop debris, researchers must discover its origins. Hence, after years of collecting data on the specific types of marine debris being found, The Ocean Conservancy now focuses on the activities that cause the debris. The Conservancy compiles, analyzes, and tracks this data year-by-year and site-to-site to identify the activities and general sources of the debris in a region, state, or country. We also compare data from land and underwater cleanups to discern any differences between debris sources and activities. The final information is then used as a tool to educate the public, business, industry, and government officials about the problem of debris.

Morton Salt is one example. Many commercial shrimp boats use salt to treat their catches at sea. When blue plastic bags bearing the Morton Salt label appeared on Gulf of Mexico beaches, The Conservancy notified the company. Morton Salt took action and began printing phrases like "Stow It, Don't Throw It" and "Don't be a Litter Boat" on the bags. Since then, volunteers have reported fewer Morton salt bags at cleanups.

ICC data reports have also influenced public policy on waste management, prompted legislation, and convinced individuals, organizations, and communities to examine their waste handling practices. In fact, cleanup data – combined with public support and The Ocean Conservancy's legislative analysis – played a major role in helping the United States ratify Annex V of MARPOL in 1987.

"The easy answer is that it's nice to have a clean beach. But more importantly, we funnel the inventory of the trash we find to The Ocean Conservancy, and they're able to look for changes in trends."

– Ted Welch, 12-year ICC veteran in Illinois,
when asked why he participates in the Cleanup

at the Center was appalled at the amount of trash she found littering the shores of South Padre Island, Texas. Determined to make a difference, she organized the Center's first beach cleanup in 1986. In just three hours, 2,800 Texans picked up 124 tons of trash from 122 miles of coastline.

Since this first cleanup, the initiative has grown with each passing year. By 1988, with the aid of a growing number of supporters, the Cleanup had expanded to include all 25 coastal U.S. states and territories. In 1989, the event became the International Coastal Cleanup

inclusion of underwater cleanups, expansion of cleanup efforts inland to streams, lakes, and rivers, and the unfortunate fact that marine debris continues to be a global threat. Consequently, each year the cleanups increase volunteers' education on the debris issue, alerting people to the magnitude of the problem, triggering new ideas for workable solutions, and spreading interest, enthusiasm, and dedication to keeping waterways clean.

Today, the ICC is held around every major body of water in the world. In addition to being the largest single-day volunteer event

2002 Cleanup Results

Continuing a strong tradition, the 2002 ICC saw growth in several areas. Officially held on September 21, 2002, the 17th annual Cleanup recorded more than 391,000 volunteers. Volunteers combed over 12,400 miles of shorelines and waterways. ▶▶▶

People, Pounds, and Miles

Country	Land			Underwater			Total		
	People	Pounds	Miles	People	Pounds	Miles	People	Pounds	Miles
Antigua & Barbuda	40	3,000	5.0	n/d	n/d	n/d	40	3,000	5.0
Argentina	576	4,905	13.0	48	280	2.0	624	5,185	15.0
Aruba	90	13	2.0	n/d	n/d	n/d	90	13	2.0
Australia	71	900	6.2	149	4,196	3.2	220	5,096	9.4
Austria	101	2,595	4.5	27	62	n/d	128	2,657	4.5
Bahamas	891	11,638	21.5	n/d	n/d	n/d	891	11,638	21.5
Bahrain	10	677	3.1	13	77	n/d	23	754	3.1
Barbados	92	1,657	5.5	94	500	2.0	186	2,157	7.5
Belgium	30	441	n/d	25	187	0.6	55	628	0.6
Belize	669	2,370	9.1	n/d	n/d	n/d	669	2,370	9.1
Bermuda	1	50	2.0	7	600	1.0	8	650	3.0
Bosnia	5	77	0.6	16	49	0.6	21	126	1.1
Brazil	8,628	45,296	160.9	92	2,397	9.9	8,720	47,693	170.8
British Virgin Islands	139	1,940	6.6	2	4	1.0	141	1,944	7.6
Bulgaria	2	77	0.3	4	49	n/d	6	126	0.3
Canada	10,289	53,781	357.3	197	6,794	15.3	10,486	60,574	372.6
Cayman Islands	123	2,810	6.4	117	580	1.4	240	3,390	7.7
Chile	3	2	2.0	15	10	2.0	18	12	4.0
Colombia	680	14,227	10.1	402	1,616	11.6	1,082	15,843	21.7
Cook Islands	3,700	16,800	200.0	32	250	5.0	3,732	17,050	205.0
Costa Rica	210	3,299	14.0	n/d	n/d	n/d	210	3,299	14.0
Croatia	8	170	0.3	n/d	n/d	n/d	8	170	0.3
Cyprus	1,153	509	5.5	163	613	0.3	1,316	1,122	5.8
Czech Republic	95	5,040	0.9	36	1,631	n/d	131	6,671	0.9
Dominica	534	17,710	38.9	10	300	n/d	544	18,010	38.9
Dominican Republic	n/d	n/d	n/d	20	40	n/d	20	40	0.0
Ecuador	3,180	36,346	34.1	28	277	15.3	3,208	36,623	49.4
Egypt	934	36,756	23.9	626	9,910	24.1	1,560	46,666	48.0
El Salvador	55	500	n/d	108	1,700	n/d	163	2,200	0.0
Estonia	50	n/d	n/d	120	16,758	0.1	170	16,758	0.1
Fiji	101	3,107	14.6	1	n/d	n/d	102	3,107	14.6
Finland	n/d	n/d	n/d	31	3,087	0.3	31	3,087	0.3
France	124	5,865	0.2	n/d	n/d	n/d	124	5,865	0.2
French Polynesia	10	66	2.1	40	1,323	0.1	50	1,389	2.2
Germany	1,167	95,066	45.5	58	860	2.8	1,225	95,926	48.3
Greece	1,495	7,973	14.8	172	48,087	3.2	1,667	56,060	18.0

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2002 Cleanup Results

(continued from previous page)

Country	Land			Underwater			Total		
	People	Pounds	Miles	People	Pounds	Miles	People	Pounds	Miles
Grenada	267	7,250	6.5	n/d	n/d	1.5	267	7,250	8.0
Guatemala	62	n/d	n/d	76	n/d	n/d	138	0	0.0
Guyana	415	18,000	4.5	n/d	n/d	n/d	415	18,000	4.5
Haiti	26	225	0.3	n/d	n/d	n/d	26	225	0.3
Honduras	40	4,000	n/d	n/d	n/d	n/d	40	4,000	0.0
Hong Kong	1,082	15,952	6.7	878	9,923	3.5	1,960	25,875	10.1
Hungary	56	1,863	14.0	21	695	n/d	77	2,558	14.0
Indonesia	686	8,710	14.4	137	5,557	3.6	823	14,267	18.0
Ireland	21	568	12.6	18	18	0.5	39	586	13.1
Israel	2,130	34,834	0.9	15	150	n/d	2,145	34,984	0.9
Italy	1,250	25,272	15.2	53	196	2.1	1,303	25,468	17.2
Jamaica	293	50	3.6	4	20	0.5	297	70	4.1
Japan	15,845	120,837	60.4	460	244	2.0	16,305	121,081	62.4
Jordan	3,050	4,994	5.6	122	331	0.1	3,172	5,325	5.7
Kenya	4,629	34,517	137.8	44	2,061	15.2	4,673	36,578	153.0
Kuwait	250	5,513	2.5	150	165	n/d	400	5,678	2.5
Latvia	21	26	0.1	25	205	n/d	46	232	0.1
Lebanon	50	180	0.3	70	600	n/d	120	780	0.3
Malaysia	295	3,940	2.3	110	1,263	1.9	405	5,202	4.2
Maldives	355	3,116	6.1	n/d	n/d	n/d	355	3,116	6.1
Malta	22	88	4.6	156	2,461	0.8	178	2,549	5.4
Martinique	28	441	n/d	n/d	n/d	n/d	28	441	0.0
Mauritius	12	165	1.2	9	441	n/d	21	606	1.2
Mexico	2,437	24,823	25.8	71	1,094	5.2	2,508	25,918	31.0
Mozambique	65	1,010	2.5	n/d	n/d	n/d	65	1,010	2.5
Netherlands	139	1,446	n/d	n/d	n/d	n/d	139	1,446	0.0
Netherlands Antilles	1,227	7,093	12.3	143	48	1.6	1,370	7,141	14.0
New Zealand	377	770	8.2	78	967	3.5	455	1,737	11.7
Nigeria	1,602	16,840	n/d	n/d	n/d	n/d	1,602	16,840	0.0
Norway	145	600	2.0	n/d	n/d	n/d	145	600	2.0
Oman	200	4,410	n/d	n/d	n/d	n/d	200	4,410	n/d
Palau	94	3,000	5.0	22	6,700	1.0	116	9,700	6.0
Palestine	7	46	1.6	51	234	0.3	58	280	1.9
Panama	8,105	81,210	23.9	266	16,417	3.2	8,371	97,627	27.1
Papua New Guinea	573	25,269	1.2	n/d	n/d	n/d	573	25,269	1.2
Peru	4,792	228,349	18.4	16	1,806	0.2	4,808	230,155	18.6
Philippines	88,808	1,081,635	1,320.2	315	2,154	12.1	89,123	1,083,789	1,332.3
Poland	42	4,725	3.7	99	3,334	0.4	141	8,059	4.0
Portugal	745	2,901	1.0	n/d	n/d	n/d	745	2,901	1.0
Republic of Korea	532	8,553	10.6	n/d	n/d	n/d	532	8,553	10.6
Russia	38	849	4.0	38	247	n/d	76	1,096	4.0
Saudi Arabia	47	838	2.4	84	2,514	1.0	131	3,352	3.4
Seychelles	16	265	1.1	21	512	0.7	37	776	1.7
Singapore	2,045	14,077	17.0	n/d	n/d	n/d	2,045	14,077	17.0
Slovakia	10	1,764	3.1	41	441	n/d	51	2,205	3.1
South Africa	6,094	64,269	278.1	27	1,438	0.8	6,121	65,707	278.9
Spain	637	15,402	16.2	n/d	n/d	0.2	637	15,402	16.4
Sri Lanka	106	4,103	1.7	n/d	n/d	n/d	106	4,103	1.7
St Kitts & Nevis	482	4,595	23.0	8	21	0.3	490	4,616	23.2
St Lucia	154	n/d	1.5	11	50	n/d	165	50	1.5
St Vincent & Grenadines	40	540	1.5	n/d	n/d	n/d	40	540	1.5
Switzerland	183	3,760	3.5	n/d	n/d	n/d	183	3,760	3.5
Taiwan	21	331	1.6	n/d	n/d	n/d	21	331	1.6
Tanzania	6	132	0.3	n/d	n/d	n/d	6	132	0.3
Thailand	68	2,490	3.5	70	244	0.9	138	2,734	4.5
Trinidad & Tobago	255	5,295	13.5	n/d	n/d	n/d	255	5,295	13.5
Turkey	2,539	26,056	69.5	55	1,338	2.0	2,594	27,395	71.5
Turks & Caicos Islands	330	4,238	20.5	n/d	n/d	n/d	330	4,238	20.5
Ukraine	19	397	n/d	11	353	n/d	30	750	0.0
United Arab Emirates	460	9,718	n/d	205	7,718	1.9	665	17,435	1.9
United Kingdom	2,814	39,133	99.2	232	9,171	2.9	3,046	48,303	102.1
United States	164,993	3,715,534	8,666.0	2,347	48,095	106.4	167,340	3,763,629	8,772.4
Venezuela	25,084	1,921,764	153.3	42	345	4.4	25,126	1,922,109	157.7
Vietnam	n/d	n/d	n/d	7	44	0.8	7	44	0.8
Totals:	382,472	7,994,935	12,127.0	9,261	231,847	283.0	391,733	8,226,782	12,410.0

This year, the ICC expanded its geographic presence by 23 countries. One hundred countries participated in 2002, making it the most global event in the ICC's 17-year history. Turkey was among several countries new to the ICC, gathering nearly 2,500 volunteers in 27 sites around the country.

Sources and Activities of Marine Debris

Of the 8.2 million pounds of trash ICC volunteers collected in 2002, nearly 58 percent was related to shoreline recreational activities.

ICC volunteers combed 12,400 miles of coastline, which is equivalent to more than 3/4 of the Earth's circumference.

Almost half of that debris included many common food and beverage-related items such as cans, bottles, plates, and food wrappers. Cigarettes and other smoking-related products accounted for 30 percent of the debris; ocean/waterway items like buoys, fishing lines and nets, and plastic sheeting represented a little more than eight percent; dumped materials such as tires, car batteries, and appliances accounted for two percent; and medical/hygiene materials made up just one percent. For a complete listing of debris items collected during the 2002 Cleanup, please

Total Number of Debris Items Collected

Debris Items	Land	Underwater	Total
SHORELINE & RECREATIONAL ACTIVITIES			
Bags	330,822	4,248	335,070
Balloons	71,290	219	71,509
Beverage Bottles (Glass)	342,608	4,529	347,137
Beverage Bottles (Plastic) 2 liters or less	419,014	4,815	423,829
Beverage Cans	353,622	6,482	360,104
Caps, Lids	496,395	2,171	498,566
Clothing, Shoes	101,632	872	102,504
Cups, Plates, Forks, Knives, Spoons	360,369	2,019	362,388
Food Wrappers/Containers	672,105	3,255	675,360
Pull Tabs	70,649	410	71,059
Shotgun Shells/Wadding	21,672	132	21,804
Six-Pack Holders	39,810	665	40,475
Straws, Stirrers	254,448	1,524	255,972
Toys	60,079	210	60,289
OCEAN / WATERWAY ACTIVITIES			
Bait Containers/Packaging	28,398	355	28,753
Bleach/Cleaner Bottles	41,137	414	41,551
Buoys/Floats	39,286	394	39,680
Crab/Lobster/Fish Traps	10,756	289	11,045
Crates	8,668	138	8,806
Fishing Line	47,283	994	48,277
Fishing Lures/Light Sticks	20,489	452	20,941
Fishing Nets	26,415	354	26,769
Light Bulbs/Tubes	13,685	100	13,785
Oil/Lube Bottles	38,174	444	38,618
Pallets	6,334	278	6,612
Plastic Sheeting/Tarps	81,759	415	82,174
Rope	117,697	1,055	118,752
Strapping Bands	28,498	240	28,738
SMOKING - RELATED ACTIVITIES			
Cigar Tips	148,586	72	148,658
Cigarette Lighters	39,605	255	39,860
Cigarettes/Cigarette Filters	1,634,635	5,979	1,640,614
Tobacco Packaging/Wrappers	85,390	888	86,278
DUMPING ACTIVITIES			
55-Gallon Drums	2,694	40	2,734
Appliances (refrigerators, washers, etc.)	3,335	64	3,399
Batteries	14,319	246	14,565
Building Materials	91,329	1,314	92,643
Cars/Car Parts	18,396	167	18,563
Tires	11,956	344	12,300
MEDICAL / PERSONAL HYGIENE			
Condoms	16,356	198	16,554
Diapers	22,412	347	22,759
Syringes	7,254	66	7,320
Tampons/Tampon Applicators	16,085	59	16,144
Totals	6,215,446	47,512	6,262,958

refer to the table above. Debris item totals collected by country and U.S. state are presented in Appendices 1 and 2.

One of the obstacles faced in the fight against debris is the "out

of sight, out of mind" rationale. When trash is dumped into the water, it is often forgotten once it sinks out of sight. However, as Cleanup volunteers can attest, underwater debris does not simply

disappear. In fact, much of the debris uncovered in underwater cleanups has been on the ocean floor or river bottom for several years. In addition to discarded trash that has sunk to the ocean floor, divers find other items that were deliberately placed in the ocean. Abandoned fish traps do more than clutter the sea floor; they can "ghost fish," or continue to attract and kill fish long after the original user has stopped using them. Abandoned fishing nets can also drift along in currents, and come to rest atop coral reefs or sea grass beds, smothering them. Underwater cleanups have been a mainstay in

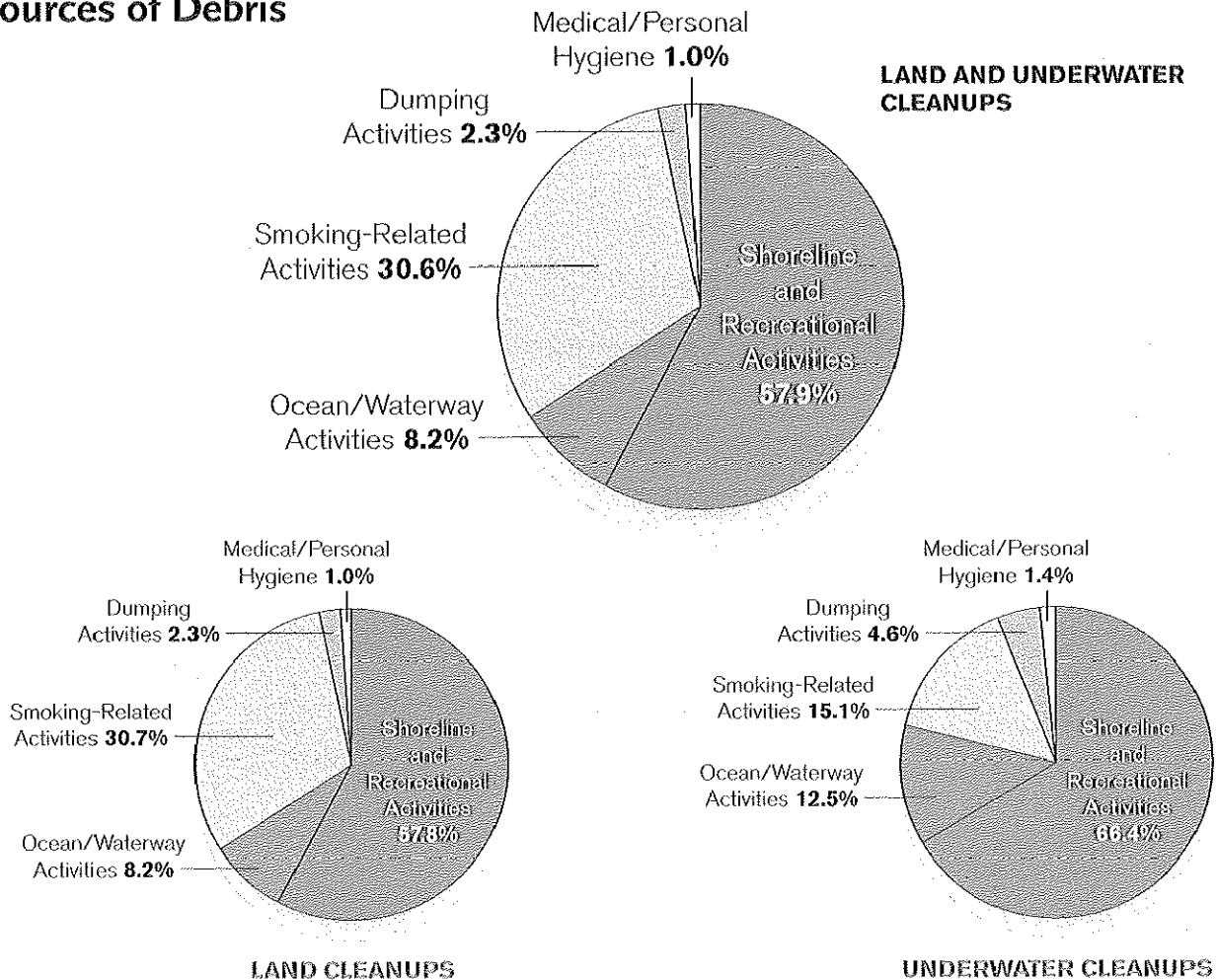
ICC volunteers collected 8.22 million pounds of trash; the same weight as 37 blue whales, the Earth's largest living creature.

the ICC for many years, but the data wasn't recorded and analyzed separately from shore cleanups until 1995. In 2002, over 9,200

divers accounted for the removal of 231,800 pounds of trash from 283 miles. While the debris found underwater often mimics the results found on shore, there are some differences.

Overall, shoreline and recreational activities like sports, picnics, games, and going to the beach caused the majority of land and underwater debris found in the 2002 ICC. Litter washed from streets and parking lots into gutters also falls under these activities. Interestingly, this category accounted for almost 58 percent of the land cleanup debris, but made up 66 percent of underwater debris.

Sources of Debris



Underwater, beverage cans and bottles accounted for over 33 percent of all the collected debris, while the same items represented only 17 percent of the debris found on land. As could be expected, activities taking place directly on the water made up a larger percentage of collected debris in underwater cleanups at nearly 13 percent, compared to only eight percent of land cleanups. Items from ocean/waterway activities, such as fishing line, fish traps, nets, and lures are the most common types of entangling debris, but they don't always make it to land. Instead, they can remain in the water, where they pose a continual threat to wildlife and humans.

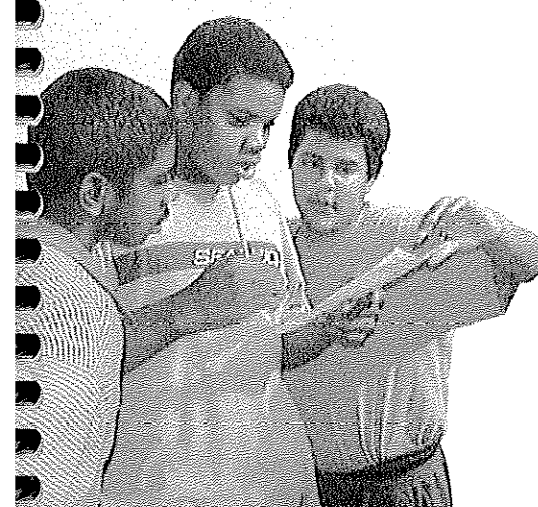
Reporting the most frequently found items has been a mainstay since the ICC's beginning. The "Top Ten" list represents the 10 most abundant items found during the Cleanup. In addition to being the 10 most frequently found items, in 2002 the Top Ten also comprised 80 percent of all the collected debris. Of those 10, the top three items – cigarettes, food wrappers, and caps and lids – account for nearly half of all debris. While smoking activities ranked second in cleanup percentages worldwide, cigarettes received the dubious honor of being the most commonly found debris item in the

(Continued on page 16)

From 1995 through 2002, more than 108,000 divers participated in the Cleanup, collecting 2.2 million pounds of trash from over 3,900 miles of underwater habitat.



Over 1,000 locations hosted underwater cleanups worldwide in 2002. Divers from 69 countries converged on their favorite dive sites in lakes, rivers, and oceans in a coordinated effort to conduct underwater cleanups. Organizations from across the globe participated, including Subway Watersports in Honduras, Admiralty Dive Center in the U.S. Virgin Islands, and Scuba Dogs in Puerto Rico. The Emirates Diving Association in the United Arab Emirates held cleanups in three communities throughout the country, attracting over 300 divers to the event. In Tahiti, six PADI divers removed a metal hot tub, and divers in Tennessee removed a car from a local lake.



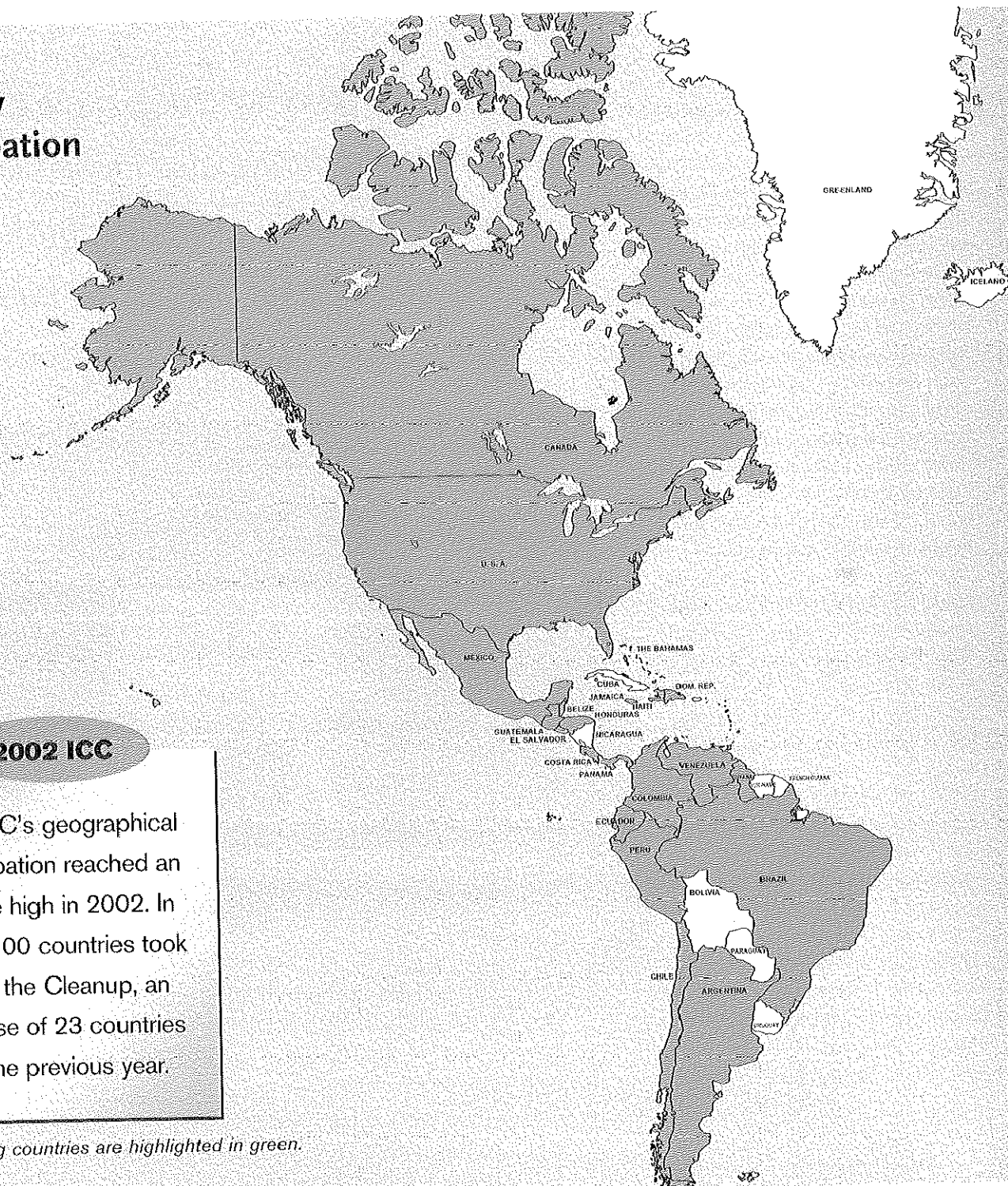
2002 INTERNATIONAL COASTAL

Country Participation

2002 ICC

The ICC's geographical participation reached an all time high in 2002. In total, 100 countries took part in the Cleanup, an increase of 23 countries from the previous year.

Participating countries are highlighted in green.



Participating Countries:

Antigua & Barbuda
 Argentina
 Aruba
 Australia
 Austria
 Bahamas
 Bahrain

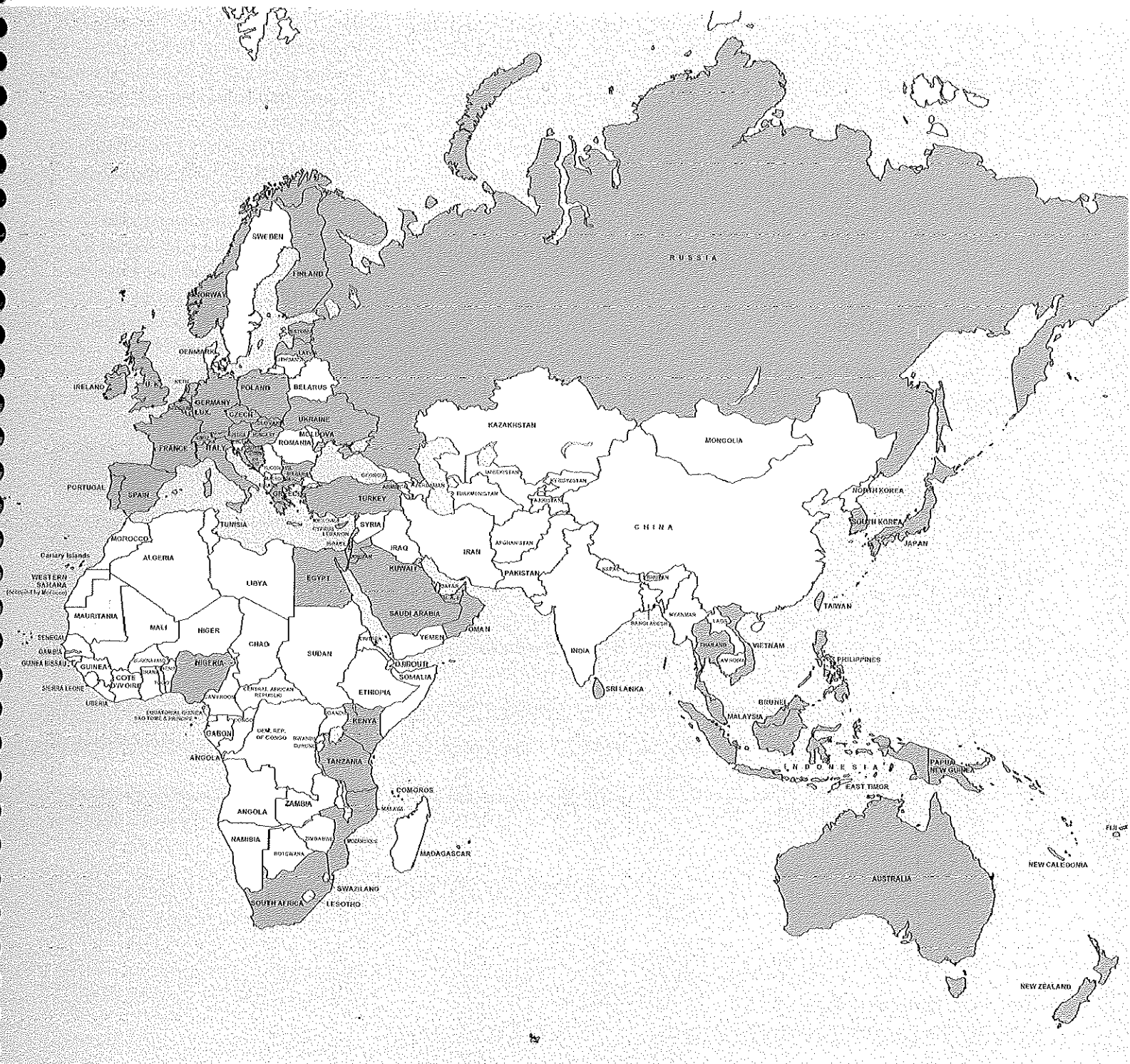
Barbados
 Belgium
 Belize
 Bermuda
 Bosnia
 Brazil
 British Virgin Islands
 Bulgaria
 Canada
 Cayman Islands

Chile
 Colombia
 Cook Islands
 Costa Rica
 Croatia
 Cyprus
 Czech Republic
 Dominica
 Dominican Republic
 Ecuador
 Egypt

El Salvador
 Estonia
 Fiji
 Finland
 France
 French Polynesia
 Germany
 Greece
 Grenada
 Guatemala
 Guyana

Haiti
 Honduras
 Hong Kong
 Hungary
 Indonesia
 Ireland
 Israel
 Italy
 Jamaica
 Japan
 Jordan

CLEANUP



Kenya
 Kuwait
 Latvia
 Lebanon
 Malaysia
 Maldives
 Malta
 Martinique
 Mauritius
 Mexico
 Mozambique

Netherlands
 Netherlands Antilles
 New Zealand
 Nigeria
 Norway
 Palau
 Palestine
 Panama
 Papua New Guinea

Peru
 Philippines
 Poland
 Portugal
 Republic of Korea
 Russia
 Saudi Arabia
 Seychelles
 Singapore
 Slovakia
 South Africa

Spain
 Sri Lanka
 St. Kitts & Nevis
 St. Lucia
 St. Vincent & Grenadines
 Switzerland
 Taiwan
 Tanzania
 Thailand

Trinidad & Tobago
 Turkey
 Turks & Caicos Islands
 Ukraine
 United Arab Emirates
 United Kingdom
 United States
 Venezuela
 Vietnam

2002 Cleanup Results

(Continued from page 13)

Cleanup for the 13th consecutive year. They made up over one quarter of the 6.3 million debris items collected in the Cleanup.

As can be expected, there were differences in the findings between land and underwater cleanups. While cigarettes were the most

common land item found, beverage cans were the number one item found during underwater cleanups at 14 percent, followed by cigarettes at over 12 percent. Unlike land cleanups, no single item accounted for more than 15 percent of debris in underwater cleanups. Both land and underwater cleanups can attribute most of

their Top Ten debris to shoreline and recreational activities. However, almost all of the land cleanup debris fell into two categories – shoreline and recreational activities and smoking activities, at 64 and 36 percent, respectively. In contrast, nearly 80 percent of the Top Ten debris items found underwater could be attributed to shoreline and recreational activities, followed by smoking activities at 17 percent, and dumping activities at nearly four percent. For a detailed listing of the Top Ten items, see chart to left.

“Top Ten” Items

LAND AND UNDERWATER CLEANUPS

Debris Items	Total Number	Percent
1. Cigarettes/Cigarette Filters	1,640,614	26.2%
2. Food Wrappers/Containers	675,360	10.8%
3. Caps, Lids	498,566	8.0%
4. Beverage Bottles (Plastic) 2 liters or less	423,829	6.8%
5. Cups, Plates, Forks, Knives, Spoons	362,388	5.8%
6. Beverage Cans	360,104	5.7%
7. Beverage Bottles (Glass)	347,137	5.5%
8. Bags	335,070	5.4%
9. Straws, Stirrers	255,972	4.1%
10. Cigar Tips	148,658	2.4%
Totals	5,047,698	80.6%

LAND CLEANUPS

Debris Items	Total Number	Percent
1. Cigarettes/Cigarette Filters	1,634,635	26.3%
2. Food Wrappers/Containers	672,105	10.8%
3. Caps, Lids	496,395	8.0%
4. Beverage Bottles (Plastic) 2 liters or less	419,014	6.7%
5. Cups, Plates, Forks, Knives, Spoons	360,369	5.8%
6. Beverage Cans	353,622	5.7%
7. Beverage Bottles (Glass)	342,608	5.5%
8. Bags	330,822	5.3%
9. Straws, Stirrers	254,448	4.1%
10. Cigar Tips	148,586	2.4%
Totals	5,012,604	80.6%

UNDERWATER CLEANUPS

Debris Items	Total Number	Percent
1. Beverage Cans	6,482	13.6%
2. Cigarettes/Cigarette Filters	5,979	12.6%
3. Beverage Bottles (Plastic) 2 liters or less	4,815	10.1%
4. Beverage Bottles (Glass)	4,529	9.5%
5. Bags	4,248	8.9%
6. Food Wrappers/Containers	3,255	6.9%
7. Caps, Lids	2,171	4.6%
8. Cups, Plates, Forks, Knives, Spoons	2,019	4.3%
9. Straws, Stirrers	1,524	3.2%
10. Building Materials	1,314	2.8%
Totals	36,336	76.5%



Since 1990, most of the items found during the ICC have been waste from consumable goods – from cigarettes to prepackaged food and beverage products – that are discarded after the product is used or consumed. Pinpointing these types of debris and the activities that cause them aids in the tracing of sources of debris and in the creation of educational programs to help people develop a new mind set toward littering. Unfortunately, the long reign of many of these items at the top of the list indicates that many people appear content to maintain their current behavior and assume that their individual impact on ocean pollution is minimal.

Dangers of Debris

In addition to being an eyesore, debris also poses a real danger to both marine wildlife and people. For volunteers, animal entanglement is the most common evidence of these dangers. Each year they find animals caught in variety of debris. Afflictions from debris entanglement can include lethal cuts, hampered mobility, suffocation, and drowning. Wildlife can also fall victim to trash that people cannot see – ingested debris. Many animals, like seabirds, are indiscriminant eaters and unintentionally ingest debris. Others confuse trash (like plastic bags) with food. In many cases, debris ingestion can lead to strangulation, starvation, and death.

While the number of collected cigarette butts and other Top Ten items can be staggering, other types of debris pose a more immediate risk to wildlife. While comprising little more than 10 percent of all debris found, items like fishing line, plastic bags, balloons, rope, plastic tarps, and six-pack holders are infinitely more dangerous to aquatic creatures. For a complete listing of the dangerous debris items, see chart below.

If you connected all of the rope, fishing line, fishing nets, and plastic sheeting collected in the 2002 ICC, the length would stretch 1,233 miles – nearly the length of the Great Barrier Reef, the world's largest coral reef!

In the 2002 ICC, volunteers discovered 259 entangled animals worldwide. Unfortunately, fishing line and fishing nets entangled the most animals for the second year, representing 65 percent of total entanglements. Rope was the next "most dangerous" item, snaring 15 percent of entangled animals. In a disturbing twist, a sea turtle found in Hawaii with a dive mask strap wrapped around its flipper received a listing in the "miscellaneous" category.

These synthetic materials create a stubborn and durable danger to aquatic wildlife. The predicament of the Northwestern Hawaiian

Islands and the endangered Hawaiian monk seal is a prime example. Driven by currents, abandoned nets and other fishing gear – much of which originates thousands of miles away – collect on the Islands' shores and reefs, creating an irresistible lure for the curious monk seals, who can easily become entangled. The problem is so severe for the precarious population, the U.S. National Oceanic and Atmospheric Administration (NOAA) carries out an annual cleanup of the islands' shores to protect the seals' habitat. In the fall of 2001, one small net recovery effort off Midway Atoll hauled in roughly 22,000 pounds of derelict fishing gear. Still, scientists estimated that more than 100 tons of



Dangerous Debris Items

Item	Amount
Bags	335,070
Balloons	71,509
Crab/Lobster/Fish Traps	11,045
Fishing Line	48,277
Fishing Nets	26,769
Plastic Sheetings/Tarps	82,174
Rope	118,752
Six-Pack Holders	40,475
Strapping Bands	28,738
Syringes	7,320
Total	770,129

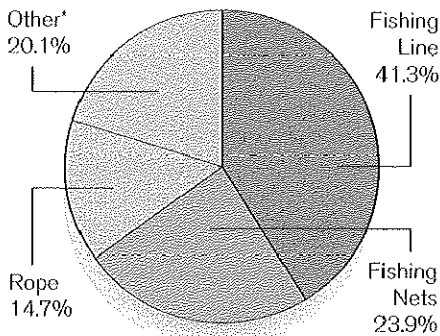
derelict fishing nets and debris remained in the Northwestern Hawaiian Islands.

If an animal spends its entire life underwater, one could reasonably expect those creatures to face the greatest dangers of debris and, therefore, comprise the highest

Debris Items Found Entangling Animals

259 ANIMALS WERE FOUND ENTANGLED IN DEBRIS DURING THE 2002 ICC

Entangling Debris	Number of Animals Found
Fishing Line	107
Fishing Nets	62
Rope	38
Other*	52



*Other items includes balloon ribbon, sixpack holder, fish traps, plastic bags

numbers of entanglements. In fact, the 155 entangled fish and invertebrates did account for more than half of the total number of entangled animals. However, seabirds are also affected by debris. Volunteers found 80 entangled birds, or 31 percent of the total entangled wildlife, during the 2002 ICC. For a listing of specific debris items and entangled animals, see chart below.

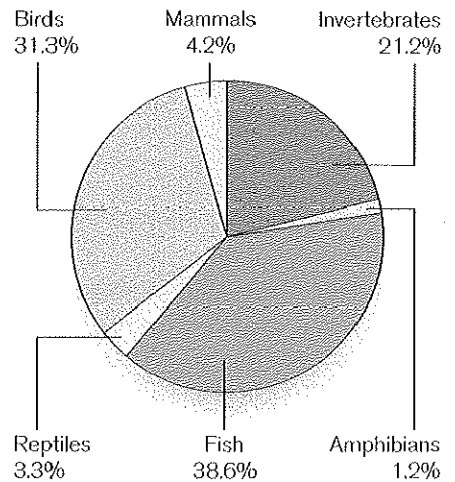
The ICC provides us with a snapshot of the dangers animals face from debris. However, the number of entangled animals reported during the ICC only represents one day's worth of information. According to the UK-based research group Sea Life Surveys, scientists estimate that more than one million birds and 100,000 marine mammals and sea turtles die each year from ingestion of and entanglement in marine debris.¹ Unfortunately, that number is just an estimate; we will never know how many untold numbers of animals are affected by marine debris every year.

Humans face dangers, too. In addition to the obvious dangers that syringes and broken glass pose to people, there are other, unseen threats as well. Medical and personal hygiene debris often enters the waste stream through sewer systems, which can indicate

the presence of invisible pollutants such as fecal bacteria. These pathogens can sicken people exposed to the contaminated water. In fact, 13,410 beach closings and advisories due to unsafe water were issued across the United States in 2001.²

Animals Found Entangled in Debris

Animal Type	Number of Animals Found
Invertebrates	55
Amphibians	3
Fish	100
Reptiles	10
Birds	80
Mammals	11



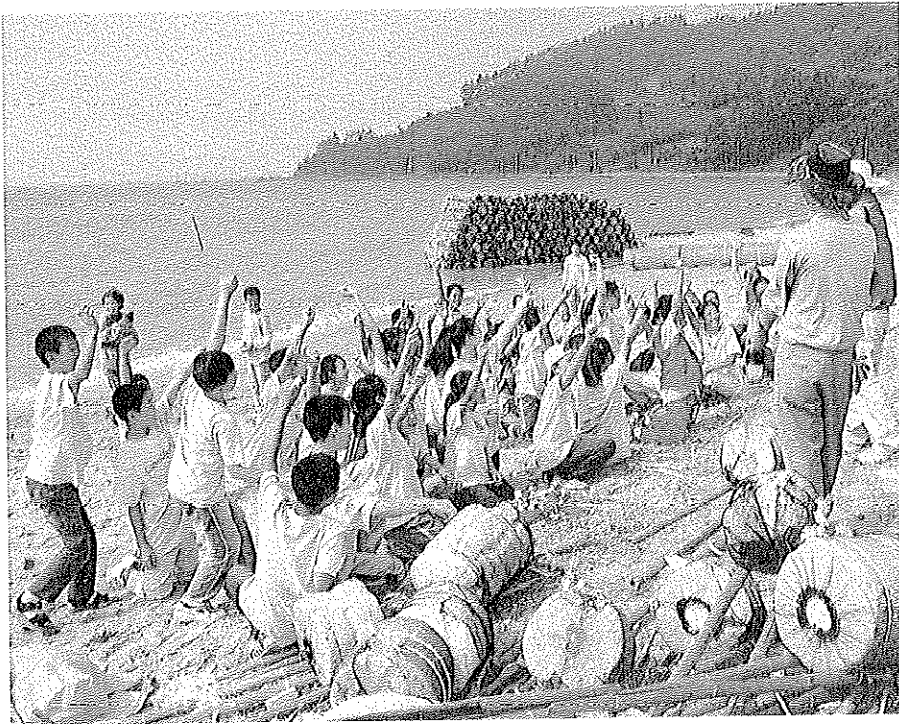
Entangled Animals

Debris	Invertebrates	Fish	Amphibians	Reptiles	Birds	Mammals	Total	
Balloon Ribbon/String	2	2			4		8	3.1%
Crab/Lobster/Fish Traps	2	2		1			5	1.9%
Fishing Line	21	38	2	3	41	2	107	41.3%
Fishing Nets	16	32		2	11	1	62	23.9%
Plastic Bags	3	2	1	1		1	8	3.1%
Plastic Sheeting		5					5	1.9%
Rope	4	13		1	16	4	38	14.7%
Six-Pack Holders	2	1			3	1	7	2.7%
Miscellaneous	5	5		2	5	2	19	7.3%
Total	55	100	3	10	80	11	259	
	21.2%	38.6%	1.2%	3.3%	31.3%	4.2%		

Working Toward Solutions



In the face of so much adversity, it would be easy for people to give in to the deluge of debris. The Ocean Conservancy is continually working to come up with solutions to pollution issues, understanding that pollution prevention is more effective than pollution cleanup. ▶▶▶



What You Can Do to Reduce Debris

In its Consumer Handbook for Reducing Solid Waste, EPA offers 12 tips for reducing solid waste.³

Reduce

- Reduce the amount of unnecessary packaging.
- Adopt practices that reduce waste toxicity.

Reuse

- Consider reusable products.
- Maintain and repair durable products.
- Reuse bags, containers, and other items.
- Borrow, rent, or share items used infrequently.
- Sell or donate goods instead of throwing them out.

Recycle

- Choose recyclable products and containers and recycle them.
- Select products made from recycled materials.
- Compost yard trimmings and some food scraps.

Respond

- Educate others on source reduction and recycling practices.
- Make your preferences known to manufacturers, merchants, and community leaders.
- Be creative – find new ways to reduce waste quantity and toxicity.

Fighting the Debris Problem

In the United States and Caribbean, participants in The Conservancy's **Model Communities** program work to increase public awareness of waste handling problems, educate the public on how individual actions affect debris, and provide tools to encourage changes in waste disposal habits. In North Carolina, the project targeted one problematic source of coastal littering – recreational pier fishing – and focused efforts on improving the handling of waste like bait containers and bags, fishing line, lures, food wrappers, and cigarettes. Signs were posted along 10 coastal fishing piers to remind people to dispose of trash properly, and participating piers even provided customers with pocket ashtrays.

Another program focusing on pollution prevention is The Conservancy's **Storm Drain Sentries** program. Research has indicated that storm drains are major sources of marine pollution. Water collected in storm drains flows freely into nearby streams and rivers, and ultimately, the ocean, carrying with it all the untreated debris gathered along the way. Consequently, EPA and The Ocean Conservancy created the Storm Drain Sentries program to raise public awareness of the harmful effects of dumping trash and other pollutants into sewer systems. Across the United States, volunteers stencil storm drains with reminders and educa-

tional messages such as "Don't Dump! Protect Your Water." One of the program's long-term goals, besides increased public awareness, is to have volunteers stencil one million storm drains. In addition,



"People don't realize the impact of their actions.

They don't realize where things go."

— Mark Tedesco, director of EPA's Long Island Sound Office, referring to the significant pollution problem recreational fishing-related debris causes throughout Long Island Sound, New York, USA

volunteers also collect information on the types of contaminants found around storm drains and the types of land uses adjacent to the drains. This information helps paint a picture of the pervasive nonpoint source pollution problem.

While prevention efforts are necessary for future ocean health, something has to be done about the debris that enters our waterways every day. Since 1996, volunteers in The Ocean Conservancy's **National Marine Debris Monitoring Program (NMDMP)** – developed from the ICC – have taken the idea of beach cleanups a step farther in the United States by standardizing data

collection using scientific methods to determine the status and trends of debris pollution. Congress mandated EPA to run the study to scientifically test the effectiveness of MARPOL's Annex V (see page 6 for more information).

Funded by EPA's Office of Water, NMDMP uses volunteers to conduct year-round, monthly beach cleanups on the same randomly selected 1/3-mile tracts of land. Volunteers collect information on 30 specific marine debris items being tracked for the study. The program divides the U.S. into nine regions with 12 to 20 beach sites within each region. The information is continuously added to a national marine debris database, and will eventually form a foundation for statistical data used to identify major sources of debris and whether it is on the rise or decreasing, and help shape potential ocean policy regarding debris.

More information can be found at www.oceanconservancy.org.

Conclusion

Marine debris is one of the most solvable pollution issues society faces, which makes it one of the most hopeful – and yet frustrating – problems on the planet. For the last decade or so, the data indicates

much of the debris is waste from consumable goods that people have mishandled, assuming that their contributions to problem are minimal or non-existent. Consequently, continued education on the detrimental effects of marine debris is necessary to help change the behaviors and alter the activities causing this plague. The Ocean Conservancy continues to share the lessons learned from the Cleanup to educate and enlighten the public, stakeholders, and policymakers. The 2002 ICC report is just one building block in its efforts to try and create long-lasting solutions to the problem of marine debris. ❖



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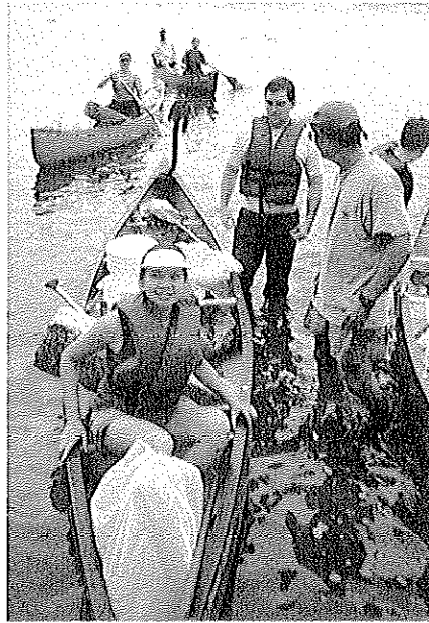
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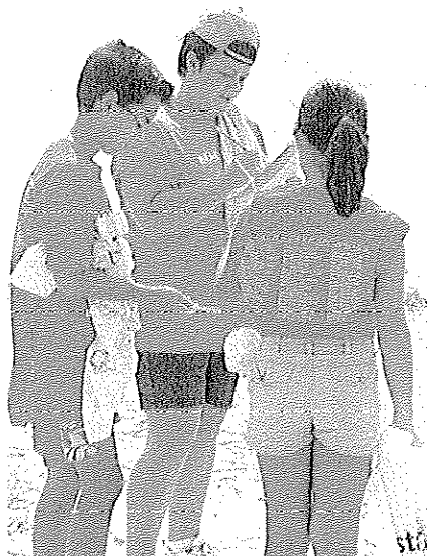
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Appendix 1: International Raw Data Summary (Antigua & Barbuda - Canada)

Debris Item	Antigua and Barbuda	Argentina	Australia	Austria	Bahamas
SHORELINE & RECREATIONAL ACTIVITIES					
bags	0	144	61	52	14
balloons	0	8	0	0	
beverage bottles (glass)	50	84	190	148	42
beverage bottles (plastic) 2 liters or less	196	260	113	178	35
beverage cans	32	120	130	260	51
caps/lids	0	89	79	5	15
clothing/shoes	4	62	17	11	6
cups, plates/forks/knives/spoons	0	17	67	16	40
food wrappers/containers	147	310	221	17	19
pull tabs	10	26	0	0	2
shotgun shells/wadding	0	0	0	0	
six-pack holders	0	6	0	3	2
straws/stirrers	53	9	17	2	10
toys	0	6	1	6	1
OCEAN / WATERWAY ACTIVITIES					
bait containers/packaging	0	0	62	0	
bleach/cleaner bottles	0	0	7	0	2
buoys/floats	0	0	0	8	
crab/lobster/fish traps	0	0	0	0	
crates	0	0	0	0	
fishing line	9	1	28	23	
fishing lures/light sticks	0	0	34	8	
fishing nets	0	0	0	0	
light bulbs/tubes	0	0	0	0	
oil/lube bottles	27	11	5	0	6
pallets	8	0	0	0	
plastic sheeting/tarps	0	1	3	7	5
rope	7	2	13	0	4
strapping bands	0	3	11	0	
SMOKING - RELATED ACTIVITIES					
cigar tips	0	2	0	410	1
cigarette lighters	0	2	9	7	1
cigarettes/cigarette filters	0	246	145	0	3
tobacco packaging/wrappers	0	39	29	100	1
DUMPING ACTIVITIES					
55-gal. drums	0	0	0	0	
appliances (refrigerators, washers, etc.)	0	0	0	2	
batteries	9	2	18	3	
building materials	40	76	20	15	3
cars/car parts	10	29	2	6	1
tires	54	6	15	8	
MEDICAL / PERSONAL HYGIENE					
condoms	31	6	4	12	1
diapers	46	10	0	0	2
syringes	0	1	1	0	
tampons/tampon applicators	0	5	0	40	
TOTALS	723	1,088	1,109	1,027	201

Bahamas	Barbados	Belgium	Belize	Brazil	British Virgin Islands	Bulgaria	Canada
1,422	188	14	3,406	12	547	3	8,147
73	0	2	163	1	1	0	1,393
4,256	267	14	1,469	13	982	49	22,355
3,567	373	71	2,473	14	1,374	13	5,418
5,147	17	12	1,646	8	1,027	31	3,527
1,521	152	1	5,814	19	479	6	9,089
676	40	2	700	1	155	10	3,271
4,091	186	1	3,528	9	714	171	7,901
1,925	221	38	2,465	13	684	69	24,714
254	0	2	487	17	112	0	1,434
29	0	4	93	0	27	2	655
231	1	0	117	20	114	0	657
1,033	21	1	1,922	30	177	20	5,304
160	2	2	145	7	21	0	1,310
94	2	1	47	0	23	0	500
269	28	3	201	4	143	0	382
76	0	2	296	5	68	1	3,557
29	1	0	57	0	4	0	231
94	3	1	24	2	9	0	142
76	17	14	62	5	12	19	493
81	32	0	42	2	13	0	137
41	22	1	34	4	13	0	328
98	16	0	44	2	16	0	159
684	0	13	414	5	205	14	488
41	1	3	61	3	49	0	189
512	5	5	281	5	13	1	4,045
474	7	0	106	0	165	2	6,977
84	0	0	103	2	43	2	1,205
131	0	2	91	0	12	0	2,562
121	4	0	84	2	11	10	655
374	12	10	382	2	222	101	52,222
106	2	32	103	2	9	21	3,010
20	0	0	10	0	1	0	103
21	4	0	43	0	2	0	145
93	3	1	81	0	13	1	188
328	31	4	765	1	74	0	5,042
139	3	1	68	2	75	2	1,903
49	1	0	39	0	26	0	557
149	6	0	86	1	5	7	277
202	2	0	265	0	3	1	125
44	0	2	40	0	4	0	124
8	1	3	21	0	5	8	589
28,823	1,671	262	28,278	213	7,652	664	181,510

Appendix 1: International Raw Data Summary (Cayman Islands - French Polynesia)

Debris Item	Cayman Islands	Chile	Colombia	Costa Rica	Croatia
SHORELINE & RECREATIONAL ACTIVITIES					
bags	162	1	781	750	12
balloons	13	0	0	43	0
beverage bottles (glass)	891	12	1,615	292	23
beverage bottles (plastic) 2 liters or less	460	6	1,555	1,944	14
beverage cans	685	0	561	994	18
caps/lids	567	2	360	1,551	0
clothing/shoes	258	3	292	237	3
cups, plates/forks/knives/spoons	429	3	17	1,004	0
food wrappers/containers	240	4	147	608	19
pull tabs	208	0	0	111	0
shotgun shells/wadding	8	0	0	198	0
six-pack holders	24	4	0	458	0
straws/stirrers	232	1	72	709	0
toys	77	0	27	92	3
OCEAN / WATERWAY ACTIVITIES					
bait containers/packaging	17	1	0	16	0
bleach/cleaner bottles	65	0	9	107	2
buoys/floats	21	0	70	12	0
crab/lobster/fish traps	7	0	1	12	0
crates	10	0	6	24	0
fishing line	140	3	1	27	4
fishing lures/light sticks	18	0	0	17	0
fishing nets	27	0	3	51	1
light bulbs/tubes	5	0	6	21	0
oil/lube bottles	76	0	114	96	4
pallets	3	0	37	53	0
plastic sheeting/tarps	34	0	58	112	0
rope	57	4	2	184	0
strapping bands	12	1	2	27	1
SMOKING - RELATED ACTIVITIES					
cigar tips	18	0	0	45	49
cigarette lighters	49	0	13	31	2
cigarettes/cigarette filters	134	0	0	945	0
tobacco packaging/wrappers	84	0	67	288	9
DUMPING ACTIVITIES					
55-gal. drums	1	0	0	3	0
appliances (refrigerators, washers, etc.)	0	0	0	19	0
batteries	26	0	2	100	2
building materials	99	7	380	12	0
cars/car parts	36	0	0	6	0
tires	17	0	2	8	8
MEDICAL / PERSONAL HYGIENE					
condoms	32	0	0	17	0
diapers	5	0	12	112	0
syringes	7	0	0	5	3
tampons/tampon applicators	10	0	0	22	0
TOTALS	5,264	52	6,212	11,363	177

lia	Cyprus	Dominica	Ecuador	Egypt	Fiji	France	French Polynesia
	70	2,678	7,630	1,455	6	498	54
	0	241	429	2,345	0	18	1
	19	2,815	5,875	611	4	221	186
	81	5,776	13,606	1,554	23	443	968
	35	3,150	1,746	659	4	524	269
	12	2,376	11,935	173	12	128	2
	14	2,764	2,781	146	11	45	20
	5	4,430	4,408	226	2	596	12
	53	3,639	9,053	216	20	436	16
	2	184	1,914	1	0	5	1
	2	100	209	0	0	0	1
	5	103	8,155	0	0	14	135
	17	871	11,223	2	0	11	0
	8	428	1,272	20	1	8	1
	0	137	330	161	0	0	11
	2	1,897	2,669	13	1	101	8
	5	479	2,303	3	1	47	5
	0	147	250	3	0	1	0
	3	46	237	2	0	0	0
	9	400	305	212	6	53	2
	8	140	110	23	0	0	4
	5	439	2,046	32	0	3	1
	1	214	351	1	0	67	2
	2	1,447	3,121	51	1	19	22
	2	203	1,071	0	0	7	0
	3	754	916	89	0	156	18
	20	988	6,839	215	1	16	3
	0	67	396	57	0	12	4
	2	572	214	616	0	428	0
	11	271	333	250	0	130	0
	165	319	11,915	512	0	0	40
	51	627	2,455	46	2	0	0
	0	91	169	25	0	0	5
	0	329	49	0	0	0	0
	2	251	110	132	1	1	22
	7	607	566	434	2	0	30
	0	504	52	6	0	28	11
	3	114	129	5	1	12	3
	0	300	130	32	0	170	0
	3	279	1,211	0	0	10	3
	0	117	321	2	0	184	0
	12	34	102	22	0	98	0
	639	41,528	118,986	10,332	99	4,490	1,860

Appendix 1: International Raw Data Summary (Germany - Kuwait)

Debris Item	Germany	Greece	Grenada	Guyana	Haiti
SHORELINE & RECREATIONAL ACTIVITIES					
bags	962	1,568	3,690	1,571	76
balloons	47	139	180	109	0
beverage bottles (glass)	5,681	1,041	5,437	966	0
beverage bottles (plastic) 2 liters or less	5,807	1,580	6,486	2,573	1
beverage cans	12,693	1,781	3,631	559	3
caps/lids	590	2,810	3,077	315	22
clothing/shoes	244	326	1,807	602	35
cups, plates/forks/knives/spoons	1,159	1,105	5,539	1,033	35
food wrappers/containers	1,323	858	3,861	945	29
pull tabs	747	873	100	86	0
shotgun shells/wadding	23	88	96	10	0
six-pack holders	121	88	59	36	2
straws/stirrers	143	3,915	1,879	954	8
toys	222	436	255	93	1
OCEAN / WATERWAY ACTIVITIES					
bait containers/packaging	183	93	425	51	0
bleach/cleaner bottles	154	165	2,011	324	3
buoys/floats	28	147	123	43	0
crab/lobster/fish traps	11	21	92	98	0
crates	15	63	281	24	0
fishing line	182	133	116	13	0
fishing lures/light sticks	46	21	54	47	0
fishing nets	25	69	54	15	0
light bulbs/tubes	107	111	17	38	0
oil/lube bottles	67	144	545	148	7
pallets	17	100	13	2	0
plastic sheeting/tarps	268	957	315	113	0
rope	111	317	230	139	3
strapping bands	19	210	47	37	0
SMOKING - RELATED ACTIVITIES					
cigar tips	19,694	6,226	1,209	4,249	0
cigarette lighters	322	476	125	102	1
cigarettes/cigarette filters	539	18,057	2,079	295	9
tobacco packaging/wrappers	721	698	458	139	2
DUMPING ACTIVITIES					
55-gal. drums	3	13	37	0	0
appliances (refrigerators, washers, etc.)	21	39	69	24	0
batteries	186	154	199	35	0
building materials	245	426	599	144	0
cars/car parts	72	47	285	158	0
tires	105	112	276	23	1
MEDICAL / PERSONAL HYGIENE					
condoms	286	353	198	223	2
diapers	39	118	306	92	0
syringes	7	130	29	10	4
tampons/tampon applicators	180	30	32	44	6
TOTALS	68,415	46,988	46,321	16,482	250

Hong Kong	Hungary	Indonesia	Italy	Jamaica	Japan	Kenya	Kuwait
1,809	371	13,729	3,007	651	22,147	9,198	7
22	124	384	224	82	259	1,850	0
832	645	602	8,559	2,047	4,172	4,071	12
1,250	814	3,676	9,332	10,687	8,884	10,144	0
947	819	809	16,886	355	11,612	4,492	45
1,480	181	1,192	1,459	2,235	17,686	5,774	15
303	51	1,077	521	1,167	1,552	6,477	21
1,486	386	1,057	2,974	1,438	5,491	2,467	0
1,441	494	8,327	2,708	1,008	32,449	6,575	0
453	7	535	864	223	1,386	752	0
76	0	70	43	52	0	669	0
92	40	45	349	16	65	576	0
677	7	2,386	463	237	3,875	5,015	0
186	6	874	331	157	1,284	2,952	0
107	0	27	271	205	444	1,186	0
404	0	82	309	538	686	2,075	0
225	0	396	113	179	3,456	3,309	0
205	0	201	36	5	520	804	0
39	0	94	36	26	159	707	0
218	0	392	448	49	1,575	955	5
156	0	29	101	11	569	1,832	0
289	0	484	80	34	543	679	0
133	0	70	211	22	54	3,595	0
261	22	250	229	623	146	1,682	12
9	0	350	145	8	73	407	0
187	5	1,060	1,727	317	662	2,711	0
739	1	1,137	282	150	8,100	2,402	0
85	0	60	112	16	1,898	648	0
19	102	45	31,389	19	916	1,175	0
152	32	673	708	281	2,390	3,950	4
517	14,186	3,208	751	35	99,767	5,881	27
99	246	2,277	1,086	18	2,959	1,447	0
7	0	22	52	9	36	321	0
28	0	12	34	39	69	104	0
118	22	299	343	12	307	614	0
350	0	659	643	48	18,036	1,416	0
15	1	135	233	90	60	272	0
35	0	215	254	26	236	477	0
12	18	49	591	85	47	1,152	0
20	0	28	123	76	143	307	0
30	0	21	222	3	108	1,039	0
88	128	82	439	16	29	413	0
15,601	18,708	47,120	81,618	23,295	254,850	1102,572	148

Appendix 1: International Raw Data Summary (Malaysia - Panama)

Debris Item	Malaysia	Maldives	Malta	Martinique	Mauritius
SHORELINE & RECREATIONAL ACTIVITIES					
bags	104	65	159	8	10
balloons	41	1	0	0	0
beverage bottles (glass)	55	163	203	50	12
beverage bottles (plastic) 2 liters or less	399	160	160	120	22
beverage cans	91	160	112	90	30
caps/lids	169	11	99	0	14
clothing/shoes	51	52	29	0	19
cups, plates/forks/knives/spoons	71	29	56	0	25
food wrappers/containers	287	45	135	0	10
pull tabs	56	2	5	0	0
shotgun shells/wadding	26	0	32	0	0
six-pack holders	0	0	0	0	9
straws/stirrers	92	7	51	0	0
toys	87	24	2	0	11
OCEAN / WATERWAY ACTIVITIES					
bait containers/packaging	9	0	11	0	12
bleach/cleaner bottles	12	15	14	0	15
buoys/floats	13	11	2	0	0
crab/lobster/fish traps	10	5	16	0	18
crates	11	17	1	0	0
fishing line	36	80	31	9	27
fishing lures/light sticks	9	6	2	0	0
fishing nets	18	13	4	0	13
light bulbs/tubes	9	3	3	0	0
oil/lube bottles	10	15	8	0	5
pallets	2	3	0	0	2
plastic sheeting/tarps	40	46	17	25	3
rope	43	40	54	10	15
strapping bands	11	11	14	0	0
SMOKING - RELATED ACTIVITIES					
cigar tips	164	285	0	0	0
cigarette lighters	17	0	6	0	9
cigarettes/cigarette filters	357	0	50	0	44
tobacco packaging/wrappers	70	41	22	0	15
DUMPING ACTIVITIES					
55-gal. drums	2	0	1	0	0
appliances (refrigerators, washers, etc.)	1	1	25	0	7
batteries	10	50	17	2	2
building materials	77	80	47	0	17
cars/car parts	2	17	33	0	0
tires	13	20	16	3	6
MEDICAL / PERSONAL HYGIENE					
condoms	3	7	0	0	7
diapers	14	9	3	0	2
syringes	0	0	0	0	10
tampons/tampon applicators	1	0	0	0	0
TOTALS	2,495	1,494	1,470	387	391

Mexico	Mozambique	Netherlands	Netherlands Antilles	New Zealand	Norway	Palestine	Panama
11,003	471	16	499	151	74	16	2,821
679	27	0	54	7	4	0	178
6,077	175	71	1,231	661	13	0	2,545
8,854	605	50	2,077	317	17	0	7,137
2,788	184	161	1,033	3,219	8	0	2,405
9,596	717	20	4,084	217	95	6	3,121
1,548	348	4	474	45	26	8	4,155
8,618	58	18	1,823	126	35	45	3,676
5,108	378	26	1,915	224	145	16	1,936
1,823	18	33	177	36	24	0	731
291	0	0	17	0	0	0	287
2,902	2	21	67	102	2	0	2,001
3,400	48	2	1,097	69	75	8	777
257	31	0	116	9	6	0	704
156	1	0	118	42	3	0	87
689	19	0	634	23	2	0	1,052
189	10	0	25	8	1	0	441
124	3	0	73	0	18	17	56
182	1,057	2	13	0	1	0	152
104	43	20	63	42	103	26	130
937	2	3	129	2	10	0	97
192	52	1	42	7	23	0	515
303	20	0	43	8	2	0	231
650	17	0	94	35	2	0	965
410	0	0	6	0	22	0	187
524	12	33	772	152	9	0	677
1,398	154	5	522	53	449	5	998
167	28	0	28	200	31	0	552
1,995	0	300	604	0	83	0	141
313	10	5	293	26	237	0	234
20,071	441	0	3,416	339	985	0	372
1,210	51	16	205	61	20	0	273
63	0	2	0	0	0	0	77
55	0	0	11	4	0	0	173
85	3	5	35	104	2	0	152
440	5	0	711	19	7	0	257
147	12	2	120	12	1	0	913
144	0	1	30	35	0	0	347
387	17	0	61	8	1	0	87
1,438	2	1	0	3	6	0	288
70	1	0	31	0	0	0	222
224	2	0	25	1	3	0	138
9,516	5,024	813	22,763	6,367	2,155	179	49,288

Appendix 1: International Raw Data Summary (Papua New Guinea - St. Lucia)

Debris Item	Papua New Guinea	Peru	Philippines	Poland	Portugal
SHORELINE & RECREATIONAL ACTIVITIES					
bags	1,218	21,712	936	98	319
balloons	232	1,535	1,878	14	32
beverage bottles (glass)	60	4,477	9,692	143	115
beverage bottles (plastic) 2 liters or less	307	42,875	6,990	105	104
beverage cans	83	2,457	7,036	131	189
caps/lids	583	6,730	10,886	291	241
clothing/shoes	28	5,517	9,530	23	51
cups, plates/forks/knives/spoons	164	10,870	11,298	57	42
food wrappers/containers	361	3,179	80,397	56	63
pull tabs	74	2,673	1,536	0	0
shotgun shells/wadding	9	0	743	0	6
six-pack holders	21	511	1,044	3	3
straws/stirrers	84	7,127	14,668	24	116
toys	59	4,909	4,539	39	3
OCEAN / WATERWAY ACTIVITIES					
bait containers/packaging	92	15	1,830	12	8
bleach/cleaner bottles	93	6,015	3,445	4	6
buoys/floats	46	1,420	1,816	0	2
crab/lobster/fish traps	0	215	1,360	0	19
crates	1	1,459	577	5	0
fishing line	27	315	2,294	12	58
fishing lures/light sticks	4	525	1,237	14	24
fishing nets	2	966	2,832	0	6
light bulbs/tubes	1	592	1,235	19	21
oil/lube bottles	17	7,634	2,119	18	19
pallets	0	311	270	1	2
plastic sheeting/tarps	22	2,969	16,258	0	229
rope	23	2,953	3,840	5	29
strapping bands	44	74	1,076	2	3
SMOKING - RELATED ACTIVITIES					
cigar tips	0	133	3,700	24	656
cigarette lighters	8	2,004	2,517	59	24
cigarettes/cigarette filters	185	4,940	20,847	542	0
tobacco packaging/wrappers	2	2,983	8,740	47	11
DUMPING ACTIVITIES					
55-gal. drums	0	583	219	1	5
appliances (refrigerators, washers, etc.)	2	0	308	3	0
batteries	5	732	3,096	39	6
building materials	3	347	2,768	4	3
cars/car parts	0	63	1,809	6	31
tires	2	715	647	4	10
MEDICAL / PERSONAL HYGIENE					
condoms	96	1,802	921	8	6
diapers	67	2,907	5,960	1	0
syringes	20	1,252	477	4	5
tampons/tampon applicators	49	1	1,167	6	11
TOTALS	45092	1587497	2545538	1,824	2475

Republic of Korea	Saudi Arabia	Singapore	South Africa	Spain	Sri Lanka	St Kitts & Nevis	St Lucia
219	7	21	74	467	195	2,422	140
51	2	0	0	5	0	36	0
919	142	7	119	502	23	1,582	279
822	135	12	82	828	85	2,257	2,700
1,062	149	25	130	426	20	1,301	79
545	216	8	25	102	0	1,364	108
244	52	5	13	69	40	545	81
514	46	10	63	170	82	2,480	484
580	31	33	121	254	40	1,806	33
26	179	0	2	65	0	24	2
85	0	0	0	2	0	18	0
33	30	0	10	34	0	15	0
100	2	9	0	35	150	437	0
19	32	0	2	10	11	121	0
131	0	3	3	50	1	43	113
79	19	0	4	23	2	185	375
618	7	2	1	63	1	85	16
103	0	0	0	14	4	19	0
227	10	0	3	12	0	344	1
96	11	3	40	227	16	54	0
54	8	0	0	66	0	37	0
141	3	2	1	73	4	122	97
15	27	0	2	10	0	48	0
54	44	0	3	62	3	407	220
0	9	0	0	4	0	19	0
256	77	0	12	77	2	158	1
281	26	4	29	58	8	419	87
19	1	0	13	0	16	26	0
13	44	0	0	1,279	0	157	0
72	16	5	0	53	6	34	0
630	102	14	100	276	0	827	0
109	14	0	54	96	58	94	0
13	0	0	4	3	0	12	0
11	0	0	0	1	0	22	0
59	18	8	1	38	0	39	0
12	20	0	9	60	0	376	0
313	4	0	2	19	0	74	3
47	16	0	10	22	1	44	0
3	0	3	0	128	0	167	0
3	41	0	4	16	18	70	3
5	0	0	0	1	0	9	0
6	0	0	0	61	0	24	0
8,589	1,540	172	936	5,761	736	18,323	4,822

Appendix 1: International Raw Data Summary (St. Vincent & the Grenadines - Venezuela)

Debris Item	St Vincent & the Grenadines	Switzerland	Taiwan	Tanzania	Thailand
SHORELINE & RECREATIONAL ACTIVITIES					
bags	155	52	0	40	590
balloons	10	12	0	5	4
beverage bottles (glass)	100	572	0	20	241
beverage bottles (plastic) 2 liters or less	312	218	49	45	184
beverage cans	52	482	17	10	44
caps/lids	60	114	0	35	135
clothing/shoes	215	57	22	6	54
cups, plates/forks/knives/spoons	39	164	0	7	61
food wrappers/containers	48	86	0	12	572
pull tabs	33	45	0	15	12
shotgun shells/wadding	21	0	0	0	0
six-pack holders	23	0	1	0	0
straws/stirrers	49	2	0	30	133
toys	56	19	2	0	3
OCEAN / WATERWAY ACTIVITIES					
bait containers/packaging	0	13	1	0	6
bleach/cleaner bottles	73	1	0	0	28
buoys/floats	13	5	3	0	10
crab/lobster/fish traps	5	5	0	0	5
crates	0	1	0	0	1
fishing line	1	12	0	0	26
fishing lures/light sticks	2	3	0	0	10
fishing nets	12	5	7	0	44
light bulbs/tubes	18	13	0	0	2
oil/lube bottles	135	1	0	5	24
pallets	12	0	0	0	0
plastic sheeting/tarps	27	29	1	0	5
rope	50	1	0	10	35
strapping bands	18	1	0	0	11
SMOKING - RELATED ACTIVITIES					
cigar tips	0	1,094	0	0	0
cigarette lighters	0	18	2	8	11
cigarettes/cigarette filters	4	1	0	49	34
tobacco packaging/wrappers	0	12	4	25	3
DUMPING ACTIVITIES					
55-gal. drums	3	0	0	0	0
appliances (refrigerators, washers, etc.)	43	0	0	0	0
batteries	12	9	0	0	5
building materials	57	28	1	0	8
cars/car parts	38	3	0	0	2
tires	167	38	2	0	9
MEDICAL / PERSONAL HYGIENE					
condoms	1	2	0	0	0
diapers	1	9	0	0	2
syringes	1	0	0	0	2
tampons/tampon applicators	0	9	0	0	0
TOTALS	1,866	3,136	112	322	2,316

Trinidad & Tobago	Turkey	Turks & Caicos Islands	United Arab Emirates	United Kingdom	United States	Venezuela	Total
1,012	3,875	335	1,980	6,398	190,477	52	335,070
51	125	13	0	975	57,387	0	71,509
1,094	2,665	1,848	125	1,265	226,251	7,134	347,137
4,722	4,220	1,032	2,136	8,846	223,029	102	423,829
553	2,489	2,482	525	6,085	238,826	9,936	360,104
3,367	3,972	548	0	15,948	363,857	74	498,566
723	240	221	0	1,654	50,205	444	102,504
2,226	987	665	0	7,237	250,511	7,628	362,388
2,825	368	761	0	23,682	444,447	87	675,360
89	3,166	66	0	0	49,277	76	71,059
66	2	30	0	922	16,792	0	21,804
14	763	89	0	248	20,987	4	40,475
791	627	215	0	1,659	182,794	8	255,972
158	130	62	0	1,108	37,365	1	60,289
83	4	1	0	0	21,511	0	28,753
77	880	117	0	724	14,263	1	41,551
35	47	54	0	261	19,494	3	39,680
36	119	8	0	22	6,035	0	11,045
14	16	25	0	47	2,580	0	8,806
63	367	39	0	5,151	32,741	3	48,277
20	8	12	0	103	14,082	0	20,941
46	97	15	31	9,780	6,278	2	26,769
63	98	44	0	73	5,520	1	13,785
171	120	224	150	306	14,120	6	38,618
4	2	11	0	47	2,433	0	6,612
136	6	58	36	0	44,163	2	82,174
172	323	169	126	19,564	57,099	2	118,752
44	247	20	0	2,088	18,829	0	28,738
105	12	23	0	0	67,649	0	148,658
134	269	49	0	831	21,369	10	39,860
94	8,162	192	0	13,009	1,345,833	5,601	1,640,614
295	2,552	26	0	797	51,090	50	86,278
4	0	3	0	42	769	0	2,734
7	11	8	0	46	1,606	1	3,399
17	354	6	0	0	6,304	0	14,565
72	71	92	31	518	55,388	9	92,643
19	24	25	0	168	10,447	3	18,563
11	80	10	30	171	6,828	4	12,300
60	68	86	0	129	8,209	6	16,554
145	201	105	0	105	7,776	18	22,759
19	84	1	0	119	2,529	0	7,320
7	51	17	0	439	11,435	0	16,144
10,164,471	37,910,2	9,810,7	5,117,0	130,567	4,208,585	31,268	16,262,958

Appendix 2: U.S. Raw Data Summary (Alabama - Georgia)

Debris Item	Alabama	Alaska	American Samoa	Arizona	Arkansas
SHORELINE & RECREATIONAL ACTIVITIES					
bags	4,512	164	1,739	607	4
balloons	5,149	3	495	53	1
beverage bottles (glass)	6,364	249	1,865	1,224	19
beverage bottles (plastic) 2 liters or less	9,159	179	2,161	709	28
beverage cans	10,725	324	2,927	1,840	40
caps/lids	11,088	139	1,463	1,498	13
clothing/shoes	1,340	38	930	307	2
cups, plates/forks/knives/spoons	6,305	91	1,697	897	11
food wrappers/containers	10,097	344	1,680	1,228	20
pull tabs	1,586	18	149	790	1
shotgun shells/wadding	266	14	7	91	1
six-pack holders	755	17	830	130	1
straws/stirrers	3,415	66	832	340	1
toys	1,250	19	604	46	1
OCEAN / WATERWAY ACTIVITIES					
bait containers/packaging	768	17	406	78	2
bleach/cleaner bottles	803	6	574	22	1
buoys/floats	828	6	216	4	1
crab/lobster/fish traps	191	0	54	2	1
crates	126	7	181	1	1
fishing line	950	141	234	174	1
fishing lures/light sticks	689	2	101	38	3
fishing nets	201	0	82	7	1
light bulbs/tubes	381	2	194	9	1
oil/lube bottles	1,032	7	335	49	10
pallets	51	15	326	5	1
plastic sheeting/tarps	1,557	44	200	44	1
rope	1,620	20	221	153	4
strapping bands	756	52	144	27	1
SMOKING - RELATED ACTIVITIES					
cigar tips	1,464	23	171	172	1
cigarette lighters	796	8	412	61	1
cigarettes/cigarette filters	25,627	824	2,315	3,210	21
tobacco packaging/wrappers	1,756	54	728	123	1
DUMPING ACTIVITIES					
55-gal. drums	37	1	8	2	1
appliances (refrigerators, washers, etc.)	50	1	78	10	1
batteries	132	0	223	50	1
building materials	1,886	28	630	123	21
cars/car parts	360	60	195	43	1
tires	336	4	156	24	4
MEDICAL / PERSONAL HYGIENE					
condoms	113	1	70	23	1
diapers	115	3	586	73	1
syringes	91	13	32	16	1
tampons/tampon applicators	145	2	40	22	1
TOTALS	114,872	3,006	26,291	14,325	228

Arkansas	California	Northern Mariana Islands	Connecticut	Delaware	District of Columbia	Florida	Georgia
45	33,268	3	2,170	3,125	470	29,642	155
6	10,675	0	518	1,134	41	4,952	199
197	30,243	5	1,150	4,228	792	48,204	679
284	22,083	0	1,168	5,244	401	34,001	796
403	20,758	48	1,071	5,118	530	56,018	609
131	56,951	10	3,429	16,657	807	66,710	913
21	8,745	7	374	882	51	8,463	180
113	38,992	8	2,453	3,928	363	32,296	470
208	107,929	5	5,247	8,962	938	63,025	980
16	7,323	0	486	469	134	8,913	118
0	1,685	2	97	720	0	1,238	7
6	1,973	4	131	373	21	2,901	2
20	31,007	3	1,741	3,856	72	32,530	376
13	7,134	7	332	806	21	5,020	103
47	2,508	0	90	869	115	3,108	19
13	923	1	38	166	2	1,631	87
5	2,702	0	207	226	4	3,030	177
0	920	0	13	69	0	628	2
3	292	0	3	72	0	417	7
8	3,834	4	266	748	139	7,184	69
32	1,557	0	62	408	23	2,834	32
1	457	0	15	109	1	1,043	6
4	610	0	31	42	3	1,027	55
108	1,302	0	28	278	0	1,878	60
0	366	0	3	48	42	227	9
8	7,341	0	168	450	33	7,135	34
43	4,422	0	234	652	11	9,190	151
4	2,818	0	95	260	1	2,638	7
1	11,465	0	341	853	70	13,670	95
24	3,379	2	160	408	19	3,881	42
228	305,680	0	13,464	27,084	963	229,374	5,467
21	8,491	3	361	974	47	10,135	154
8	83	0	1	27	1	72	2
0	253	0	1	32	3	188	12
2	1,170	4	42	71	2	887	3
224	15,537	6	246	644	5	8,285	257
1	1,523	1	40	154	5	1,689	6
40	769	1	13	108	14	952	3
0	1,838	0	51	127	13	1,220	45
0	852	0	54	147	10	849	6
1	380	0	43	32	0	395	2
0	772	0	95	268	8	763	21
2,289	761,010	124	36,582	90,828	6,175	708,243	12,417

Appendix 2: U.S. Raw Data Summary (Guam - Missouri)

Debris Item	Guam	Hawaii	Illinois	Indiana	Louisiana
SHORELINE & RECREATIONAL ACTIVITIES					
bags	1,910	3,962	1,651	846	3,196
balloons	292	651	1,525	1,146	291
beverage bottles (glass)	2,660	7,396	4,193	2,264	5,116
beverage bottles (plastic) 2 liters or less	2,659	3,543	1,966	1,421	7,588
beverage cans	13,189	5,332	2,369	1,277	6,373
caps/lids	2,207	7,800	7,235	2,622	6,535
clothing/shoes	963	1,305	561	486	1,430
cups, plates/forks/knives/spoons	3,513	13,905	3,048	1,190	5,508
food wrappers/containers	2,791	7,160	10,224	2,763	7,515
pull tabs	679	1,411	989	284	822
shotgun shells/wadding	52	121	134	240	495
six-pack holders	685	421	183	93	500
straws/stirrers	883	2,315	4,646	1,426	3,507
toys	295	472	757	374	635
OCEAN / WATERWAY ACTIVITIES					
bait containers/packaging	102	544	68	107	377
bleach/cleaner bottles	338	179	12	16	607
buoys/floats	114	535	26	51	457
crab/lobster/fish traps	69	161	22	5	154
crates	29	50	35	5	83
fishing line	195	1,757	63	112	622
fishing lures/light sticks	75	382	55	33	460
fishing nets	101	448	21	69	203
light bulbs/tubes	94	130	28	30	415
oil/lube bottles	288	155	13	30	521
pallets	25	39	16	12	58
plastic sheeting/tarps	627	1,055	858	271	694
rope	390	1,241	226	182	1,191
strapping bands	198	415	339	85	273
SMOKING - RELATED ACTIVITIES					
cigar tips	1,191	783	1,348	1,275	874
cigarette lighters	231	622	205	94	553
cigarettes/cigarette filters	6,390	35,394	28,517	8,407	14,962
tobacco packaging/wrappers	700	1,360	456	371	1,127
DUMPING ACTIVITIES					
55-gal. drums	5	10	1	6	19
appliances (refrigerators, washers, etc.)	65	76	10	3	33
batteries	225	528	54	17	292
building materials	564	668	544	232	1,139
cars/car parts	168	356	51	74	381
tires	60	144	28	35	271
MEDICAL / PERSONAL HYGIENE					
condoms	47	157	190	81	235
diapers	260	192	100	212	112
syringes	18	23	18	14	80
tampons/tampon applicators	24	84	157	67	152
TOTALS	45,371	103,282	72,942	28,328	75,856

Iana	Maine	Maryland	Massachusetts	Michigan	Minnesota	Mississippi	Missouri
96	2,551	2,841	7,304	3,742	286	4,355	938
91	502	804	2,570	8,382	56	804	144
16	3,195	2,219	5,562	2,524	427	5,007	2,290
88	2,877	6,499	6,302	2,390	382	4,886	1,635
73	2,064	2,359	5,651	1,585	504	6,076	3,548
35	2,870	4,085	13,636	11,677	662	9,622	1,688
30	1,012	396	1,903	1,014	124	1,079	320
08	2,543	2,411	26,969	4,666	298	5,577	1,020
15	7,298	7,066	20,756	18,217	1,568	10,413	2,139
22	503	192	1,662	1,272	79	1,751	931
95	591	300	774	918	12	333	29
00	121	112	349	222	14	767	139
07	837	2,035	8,191	8,878	382	4,507	493
35	386	390	1,743	1,898	94	851	97
77	701	231	876	663	29	690	826
07	448	108	338	66	9	322	74
57	1,832	90	812	78	5	730	84
54	525	24	950	6	2	201	3
83	79	20	126	24	5	70	2
22	364	351	1,325	359	19	743	410
60	85	148	578	205	10	505	190
03	264	67	619	135	4	211	25
15	51	43	111	62	10	321	5
21	425	119	188	60	6	368	76
58	53	5	76	61	0	197	4
94	1,291	142	1,996	2,025	142	1,264	42
91	4,951	594	6,152	814	17	1,160	56
73	1,777	269	1,166	913	41	446	23
374	508	535	2,190	6,727	115	4,750	185
53	167	256	1,105	586	34	885	94
62	21,232	6,000	60,810	99,069	9,428	31,171	19,146
27	775	379	2,501	1,503	188	2,610	498
19	11	3	58	14	0	22	4
33	36	13	46	10	1	46	5
92	131	34	169	97	6	177	54
39	1,039	285	1,455	811	84	1,658	77
81	220	63	289	148	32	297	28
71	120	39	174	81	7	159	75
235	269	50	309	197	17	252	43
112	25	37	258	184	25	81	51
80	23	162	64	56	4	86	13
152	66	135	821	581	18	139	17
56	64,318	41,911	188,934	182,920	15,146	105,589	37,521

Appendix 2: U.S. Raw Data Summary (Montana - Pennsylvania)

Debris Item	Montana	Nebraska	New Hampshire	New Jersey
SHORELINE & RECREATIONAL ACTIVITIES				
bags	14	378	2,060	9,380
balloons	0	67	398	2,510
beverage bottles (glass)	398	752	3,360	3,640
beverage bottles (plastic) 2 liters or less	8	476	2,409	7,000
beverage cans	722	1,238	3,309	4,220
caps/lids	29	609	3,167	19,000
clothing/shoes	25	56	603	1,440
cups, plates/forks/knives/spoons	68	262	2,559	9,520
food wrappers/containers	33	1,328	8,337	8,260
pull tabs	23	282	537	600
shotgun shells/wadding	3	106	533	100
six-pack holders	0	24	105	200
straws/stirrers	1	231	1,804	14,100
toys	5	16	548	1,500
OCEAN / WATERWAY ACTIVITIES				
bait containers/packaging	6	210	205	300
bleach/cleaner bottles	0	9	115	200
buoys/floats	2	8	458	410
crab/lobster/fish traps	0	0	426	0
crates	0	0	51	0
fishing line	23	82	690	910
fishing lures/light sticks	7	38	93	500
fishing nets	2	0	191	100
light bulbs/tubes	2	3	34	110
oil/lube bottles	8	6	70	100
pallets	0	0	31	0
plastic sheeting/tarps	6	29	861	600
rope	9	31	2,627	1,700
strapping bands	1	21	661	400
SMOKING - RELATED ACTIVITIES				
cigar tips	0	33	1,874	1,200
cigarette lighters	0	12	124	700
cigarettes/cigarette filters	0	1,839	47,474	32,400
tobacco packaging/wrappers	1	235	628	400
DUMPING ACTIVITIES				
55-gal. drums	1	3	12	0
appliances (refrigerators, washers, etc.)	0	0	20	0
batteries	2	16	41	0
building materials	26	17	544	2,300
cars/car parts	3	25	144	100
tires	18	336	49	0
MEDICAL / PERSONAL HYGIENE				
condoms	0	4	71	100
diapers	0	22	48	0
syringes	0	1	18	100
tampons/tampon applicators	0	5	79	1,100
TOTALS	1,446	8,810	87,368	126,800

New Jersey	New York	North Carolina	North Dakota	Ohio	Oklahoma	Oregon	Pennsylvania
9,381	18,548	14,082	15	1,449	8	1,820	809
2,514	5,372	1,835	0	259	0	237	205
3,641	15,859	23,732	211	1,823	256	1,171	835
7,006	21,535	19,648	181	1,798	21	872	2,909
4,229	11,866	21,446	313	2,742	380	1,243	1,593
19,083	38,760	11,813	14	3,016	26	2,407	2,120
1,446	4,101	2,831	2	473	11	431	268
9,526	32,583	10,550	10	1,730	17	1,059	1,148
8,262	41,280	27,180	39	2,636	6	3,469	4,668
668	3,552	2,668	0	274	0	362	513
194	2,935	697	0	1,057	0	417	242
293	1,506	904	5	88	0	119	66
14,108	21,779	4,744	9	1,698	0	935	900
1,537	3,959	1,638	0	421	8	390	245
324	1,628	1,821	14	184	0	151	265
253	660	465	0	93	0	60	46
419	2,094	352	0	31	0	106	62
59	622	67	0	0	0	58	10
29	249	88	0	12	0	18	18
919	2,618	1,875	14	69	1	310	329
578	1,047	672	2	111	9	83	58
132	449	155	1	10	0	51	19
111	461	241	0	20	0	34	28
180	869	772	0	58	0	42	54
29	126	63	0	9	0	26	6
698	4,425	1,482	1	272	0	481	124
1,700	3,733	1,195	1	74	2	1,579	91
496	1,272	446	0	51	1	347	52
1,239	4,829	2,136	0	2,126	0	306	538
706	2,080	869	0	185	0	167	134
32,444	75,329	77,321	12	4,209	0	10,276	7,394
440	4,210	3,025	7	547	0	386	288
4	54	88	0	32	0	4	5
4	163	190	0	41	0	5	8
62	612	316	0	29	0	21	43
2,352	4,764	3,265	0	469	5	613	186
127	1,136	1,260	0	159	4	50	74
75	416	1,023	0	99	0	25	63
158	1,018	371	0	51	0	58	86
95	919	854	0	60	0	47	58
114	324	72	0	22	0	25	25
1,188	3,730	334	0	408	0	56	140
26,823	343,472	244,586	851	28,895	755	30,317	26,725

Appendix 2: U.S. Raw Data Summary (Puerto Rico - Wisconsin)

Debris Item	Puerto Rico	Rhode Island	South Carolina	South Dakota
SHORELINE & RECREATIONAL ACTIVITIES				
bags	3,170	4,523	3,282	0
balloons	75	1,634	1,231	0
beverage bottles (glass)	8,672	2,768	4,036	17
beverage bottles (plastic) 2 liters or less	15,704	3,837	4,612	0
beverage cans	8,016	4,124	6,064	40
caps/lids	9,815	6,596	5,346	8
clothing/shoes	1,006	970	1,119	2
cups, plates/forks/knives/spoons	6,638	4,137	5,003	0
food wrappers/containers	2,630	10,003	10,583	0
pull tabs	4,908	1,137	478	0
shotgun shells/wadding	53	645	551	0
six-pack holders	4,858	211	270	2
straws/stirrers	5,821	4,058	3,332	7
toys	1,194	654	857	1
OCEAN / WATERWAY ACTIVITIES				
bait containers/packaging	152	680	628	5
bleach/cleaner bottles	3,304	568	179	10
buoys/floats	1,381	514	695	0
crab/lobster/fish traps	34	187	83	0
crates	18	46	91	0
fishing line	41	1,281	316	5
fishing lures/light sticks	532	476	225	2
fishing nets	41	140	110	0
light bulbs/tubes	21	37	145	0
oil/lube bottles	2,685	194	170	0
pallets	85	28	53	0
plastic sheeting/tarps	408	484	934	0
rope	287	1,406	688	0
strapping bands	107	363	234	0
SMOKING - RELATED ACTIVITIES				
cigar tips	17	526	1,967	0
cigarette lighters	267	360	382	2
cigarettes/cigarette filters	15,256	28,521	57,908	30
tobacco packaging/wrappers	805	1,028	1,246	0
DUMPING ACTIVITIES				
55-gal. drums	25	13	16	0
appliances (refrigerators, washers, etc.)	70	16	19	0
batteries	102	64	143	0
building materials	581	569	1,593	0
cars/car parts	227	95	119	0
tires	246	64	215	1
MEDICAL / PERSONAL HYGIENE				
condoms	75	106	134	0
diapers	348	109	43	0
syringes	86	21	25	0
tampons/tampon applicators	167	363	97	0
TOTALS	99,928	88,556	115,222	132

North Carolina	Tennessee	Texas	US Virgin Islands	Virginia	Washington	Wisconsin	Total
	54	15,329	1,797	2,091	1,998	187	190,477
	1	1,627	127	1,180	91	142	57,387
	392	11,569	3,429	3,714	866	697	226,251
	265	13,379	3,778	3,630	1,956	672	223,029
	261	12,645	2,358	3,233	1,740	566	238,826
	124	21,002	4,175	2,357	1,236	1,719	363,857
	32	3,406	607	450	303	132	50,205
	105	10,730	2,854	2,219	448	604	250,511
	403	15,138	2,295	4,210	1,802	1,592	444,447
	10	2,569	222	218	43	236	49,277
	0	767	53	146	225	42	16,792
	16	1,407	121	132	90	21	20,987
	51	7,294	1,333	891	625	815	182,794
	4	1,714	132	394	97	204	37,365
	12	926	62	541	378	80	21,511
	3	1,318	112	112	127	46	14,263
	18	553	107	115	350	10	19,494
	1	371	42	34	15	25	6,035
	4	246	6	32	31	4	2,580
	13	3,234	139	437	245	29	32,741
	6	1,359	34	148	43	55	14,082
	0	631	90	77	89	1	6,278
	0	503	80	88	49	5	5,520
	26	979	281	210	175	15	14,120
	0	183	11	40	81	24	2,433
	18	5,610	282	193	173	261	44,163
	16	8,025	192	438	1,254	60	57,099
	2	1,008	70	179	697	74	18,829
	12	1,715	247	314	75	889	67,649
	5	1,531	182	216	71	52	21,369
	31	13,276	1,315	9,775	2,428	6,233	1,345,833
	64	1,424	254	631	371	185	51,090
	0	98	7	6	6	0	769
	3	59	18	5	12	1	1,606
	7	334	100	28	14	0	6,304
	42	2,905	180	548	204	98	55,388
	6	563	118	87	55	11	10,447
	0	321	68	118	73	5	6,828
	13	507	129	45	12	23	8,209
	18	567	196	85	58	17	7,776
	0	194	9	7	7	13	2,529
	1	335	40	31	43	21	11,435
	2,039	167,561	27,652	39,405	18,656	15,866	4,208,585

Footnotes

- 1 Sea Life Surveys, "Minke Whale Photo-Identification," sealifesurveys.co.uk/research.cfm
- 2 Testing the Waters XII: A Guide to Water Quality at Vacation Beaches. By Mark Dorfman. National Resource Defense Council. July 2002.
- 3 "Consumer Handbook for Reducing Solid Waste," www.epa.gov/epaoswer/non-hw/reduce/catbook/the12.htm

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