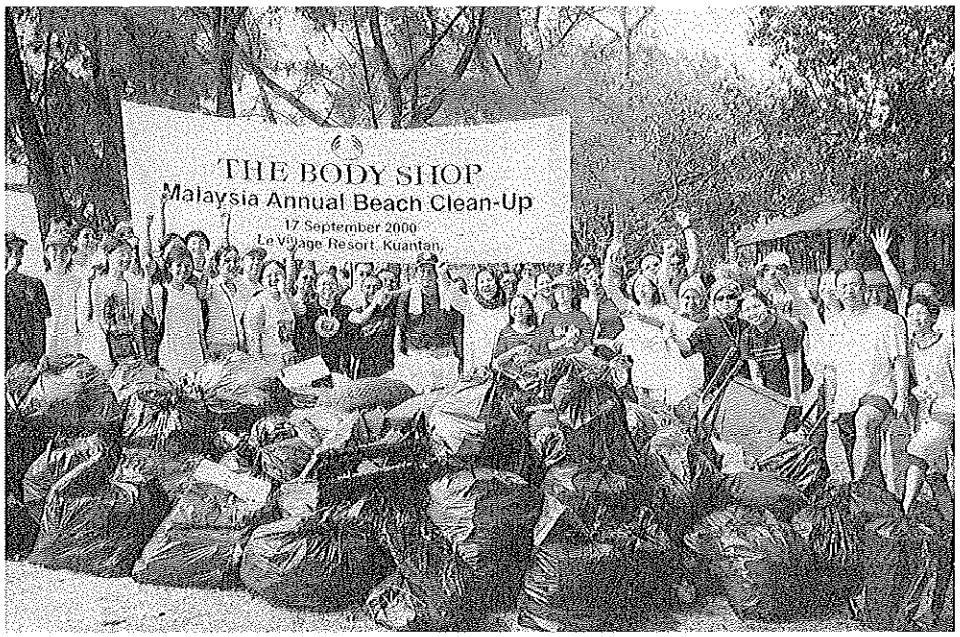
2000 International Coastal Cleanup

International Results

The Ocean Conservancy

Formerly the Center for Marine Conservation



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Overview

Enthusiastic volunteer, 2000 ICC

The Ocean Conservancy has been working since 1972 to ensure that our oceans provide a healthy environment for an abundant and diverse population of marine animals. The International Coastal Cleanup began in 1986 as an effort by an Ocean Conservancy employee to retrieve unpleasant debris from the Texas coast. Today, hundreds of thousands of people from all over the world remove trash and litter from their local beaches and waters while recording important data on what they find.

The mission of the International Coastal Cleanup is:

- To remove debris from the shorelines, waterways, and beaches of the world's lakes, rivers, and oceans;
- To collect valuable information on the amount and types of debris
- To educate people on the issue of marine debris; and
- To use the information collected from the Cleanup to effect positive change—on all levels, from the individual to the international—to reduce marine debris and enhance marine conservation.

The International Coastal Cleanup is the largest marine pollution cleanup effort currently in existence. The event heightens public awareness about the vast problem of marine debris, but more importantly, it unites citizens from across the United States and many other nations in an attempt to do something about pollution in their communities. The ultimate goal, however, is to eliminate the need for such cleanups by deterring people and industries from polluting our waters in the first place.

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Acknowledgments

Our deepest gratitude and sincerest thanks goes to the hundreds of thousands of enthusiastic individuals who make the International Coastal Cleanup a success every year. Armed with trash bags and data cards, and adorned in everything from gloves to scuba gear, rain jackets to sunscreen, our volunteers go forth on land and in water to retrieve the litter and trash their neighbors have left behind. We salute those volunteers who return to the Cleanup year after year, and your commitment to a cleaner and healthier ocean. For those volunteers who were first-time participants, we extend a heart-felt "thank you" for a job well done.

The International Coastal Cleanup simply would not happen without our country coordinators who spend an immeasurable about of time preparing for the Cleanup—lining up sponsors, volunteers, publicity, and thank-you gifts— and organizing the marine debris data. So many of you go the extra mile to assure a successful and entertaining Cleanup for everyone involved. Thank you for your hard work, your willingness to volunteer your time, and for your dedication to this important cause. (A list of the 2000 international coordinators can be found on page 9.)

Special thanks also go to all of 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. Sponsors of the International Coastal Cleanup program are listed on page 2; country and local sponsors are listed beginning on page 29.

The Problem of Marine Debris

Our oceans, lakes, and rivers are an economic livelihood and a recreational escape for people across the globe. Yet, in spite of their importance in our everyday lives, our oceans and waterways are threatened daily by an influx of marine debris.

Marine debris is the term for any manufactured item that ends up as trash in our oceans or waterways. It can be as small as a bottle cap or as large as a lawn chair. It can be found in all the world's oceans, and in the lakes, rivers, and streams that lead to the ocean. Whatever its size, shape, or composition, trash poses a significant threat to beachgoers, coastal communities, and especially marine ecosystems.

At its most benign, trash detracts from the aesthetic beauty of a waterfront landscape. But marine debris is also a human health and safety hazard. Floating fishing line, rope, and

Fishing line around boat propeller.

plastic bags can wrap around and damage boat propellers. Hospital needles, syringes, and drug vials lying on shorelines can carry disease, and broken glass and other sharp objects lie in wait for an innocent bare foot.

Marine debris is particularly dangerous and often lethal to marine wildlife. Floating plastic bags deceive sea turtles into thinking they are delectable jellyfish. Seagulls and other shore birds mistakenly swallow cigarette filters instead of food. Fishing lines, abandoned fishing nets, rope and plastic six-pack rings all are known to entangle marine animals, maiming and even killing them.

Marine debris won't disappear by itself. In fact, it will probably get worse. As the human population grows, so will our trash, increasing the probability that it will ultimately end up in our oceans and waterways. In addition, technology continues to make more and more of our goods stronger, more durable and lighter in weight, which means that the debris lasts longer and travels farther.

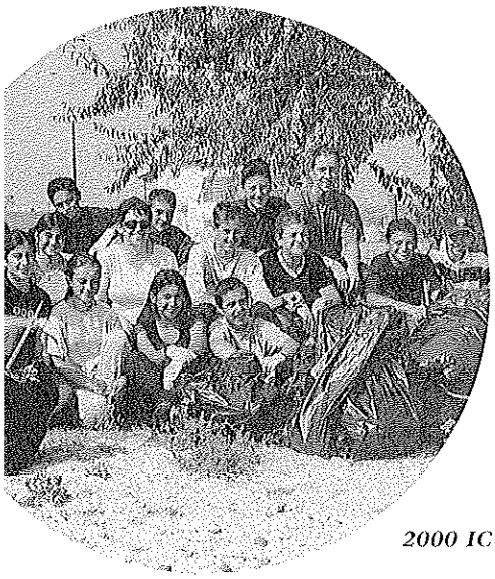
Sources of Debris

Simply stated, the source of all debris is human activity. People produce waste, and if waste is not handled appropriately it will, in all likelihood, become marine debris. Areas closest in proximity to large cities of course have greater pollution problems. But once in water, debris can travel, and depending on ocean current patterns, climate and tides can land thousands of miles from its origin.

The Ocean Conservancy classifies debris as either land-based or ocean-based. It can be difficult to pinpoint the origin of many items to one source. If no definitive source can be determined, then items are attributed to general sources.

Ocean-based sources of debris typically include commercial fishing vessels; recreational boats and cruise ships; merchant, military, and research vessels; and offshore petroleum platforms and their associated supply vessels. Debris may be introduced accidentally—such as when a fishing line snaps or boater's hat blows off of his or her head—or it could result from illegal and thoughtless dumping practices.

The at-sea disposal of solid waste has been prohibited in most of the world's waters since 1988, when Annex V of the MARPOL Treaty went into effect. MARPOL is an international agreement governing the shipboard disposal of hazardous materials; Annex V covers solid



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waste. Although some countries have not ratified Annex V, cleanup data in recent years indicates that debris from ocean sources is declining.

Land-based debris enters the water from a source on land, such as recreational beachgoers and fishers; materials manufacturers, processors, and transporters; shore-based solid waste disposal and processing facilities; sewage treatment and combined sewer overflows; inappropriate or illegal dumping; and littering.

Even trash that originates miles from the coast can travel by sewage pipe, storm drain, or other waterway into the ocean. When public wastewater treatment facilities back up during periods of heavy rain, for example, the wastewater is diverted into the nearest natural waterway, dumping tampon applicators, condoms, and other waste into the ocean. Likewise, some storm water systems discharge directly into waterways, not into water treatment facilities. Thus, litter discarded on city streets, sidewalks and yards will likely be carried into the ocean via a storm drain.

The International Coastal Cleanup

Fifteen years ago, about 2,800 residents in the state of Texas, USA, removed 124 tons of trash from 122 miles of coast, during The Ocean Conservancy's first beach cleanup. Similar efforts in other communities multiplied, and by 1988 the Cleanup had become a national event, with cleanups in every coastal state.

Cleanups in Canada and Mexico made the 1989 cleanup an international event, and participation by other countries has increased every year. To date, people in more than 100 countries have rid their shorelines, oceans, rivers, lakes, and other waterways of tons of marine debris.

The cleanup volunteers spend three hours, usually on the third Saturday of September (although the date varies depending on local conditions), combing their beaches for shiny food wrappers, discarded cigarette filters, deflated balloons, and other pieces of litter. Year after year, participants express their surprise at the discarded clothing, junked appliances, and other unusual items they find on the beach.

Some adventurous volunteers dive for debris under the water as well. Much of the debris they find has probably been on the ocean floor or river bottom for many years. Often barnacles, oysters, starfish, sea coral and other marine or aquatic life have adopted this forgotten debris as part of their habitat. Divers have the added challenge of decid-

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ing whether removing the debris is worth destroying these improvised homes.

Volunteers in the International Coastal Cleanup record every piece of trash they collect on detailed, standardized data cards provided by The Ocean Conservancy. The data card lists 81 items volunteers are likely to encounter on beaches and waterways.

Recording each piece of debris found during the Cleanup is a tedious, but necessary, job for the volunteers if we are to better comprehend what types of debris are found along our beaches and waterways and create lasting solutions to the problem.

The data cards are compiled, analyzed, and tracked year by year, revealing possible patterns in marine debris in a region or country. Data cards from shoreline cleanups and underwater cleanups are compiled separately to ascertain whether and how debris differs above and below the water line. This valuable information is an effective tool for educating the public and government officials about the problem of marine debris. Cleanup data reports have influenced public policy on waste management, prompted legislation, and convinced individuals, organizations, and communities to examine their waste handling practices.

New Improved Data Card

From the first cleanup in 1986, The Ocean Conservancy knew that it was not enough simply to clean the beaches. To have any kind of lasting impact the Cleanup would also need to provide hard data on the types and quantities of the debris.

The first data cards contained 34 possible items volunteers might find, based on the kinds of debris found in the Gulf of Mexico. As the Cleanup expanded to other regions, new items were added to the card as volunteers recorded them in the "Other" category. Cigarette butts are the most famous example. By 1990 the list of items topped out at 81, categorized by what the debris was made of (wood, plastic, foamed plastic, rubber, metal, glass, paper, or cloth).

The Ocean Conservancy will be changing the data card in 2001 to reflect what we have learned in 16 years of collecting data on marine debris. The Ocean Conservancy's database currently contains over 70 million pieces of data from more than 100 countries; the types and quantities of debris, as well as its impact on coastal communities and marine wildlife, are well documented.

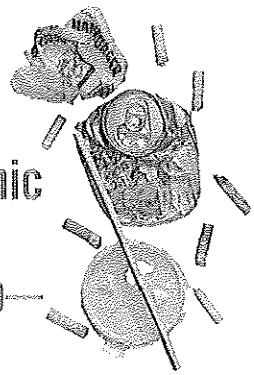
It is now time for the Cleanup to focus on the activities, sources, and behaviors producing the debris.

Thus, the 2001 data card will contain fewer items—those debris items found consistently and in the greatest quantities and locations—and will be categorized by the activity or source likely to have produced it: beach/shoreline and recreational activities, ocean/waterway activities, smoking related activities, dumping activities, and sewer waste.

Determining the source of the debris has always been integral to Cleanup data analyses, but the original data card could not provide enough information from which to draw many firm conclusions.

The Ocean Conservancy spent nearly two years developing the new data card, in consultation with Cleanup coordinators, volunteers, and the Cleanup Advisory Council. We believe the new card will reveal even more about where marine debris comes from, and will lead to better, permanent solutions for controlling our wayward trash.

The 2000 Cleanup



"A great picnic followed our cleanup—all trash went in the place it's suppose to go—the trash can, not the water!"

— Claudine Farquhar, coordinator for the cleanup in Bala, Ontario, Canada

Results

Turnout for the 2000 International Coastal Cleanup reached **844,867** individuals in seventy-three countries. These volunteers covered over **20,700** miles on shore and underwater. Together, they picked up **10,700,498** pieces of debris weighing over **13.5** million pounds! (See chart page 12)

Among the volunteers were 14,309 divers who retrieved 226,912 pounds of trash from underwater, covering a combined area of about 1,629 miles. They removed 132,608 pieces of debris from below the water's surface.

Sources of Debris

WHAT WE FOUND

Most (54.29%) of the debris found during the 2000 Cleanup was attributed to land-based sources such as beach-picnickers, inappropriate or illegal dumping, and general littering (see large pie chart page 18). This margin has remained fairly consistent from year to year. The percentage of debris attributed to ocean-based sources, such as recreational boats and commercial fishing, was comparatively low at 12.56%. Almost one third (33.15%) of the debris could not be specifically attributed to either land-or ocean-based sources and could have come from either source.

Interestingly, the underwater-only breakdown shows a higher percentage of land-based debris (65.54%) than the land-only cleanup (54.15%) (see small pie charts page 18). The percentage of ocean-based debris found on land was slightly higher than the ocean-based debris found underwater.

WHAT IT MEANS

If people around the world could eliminate land-based sources of pollution only, our beaches and shorelines would be 60% cleaner—without anyone having to pick up a single piece of beach trash. Discarding our trash only into proper receptacles, whether at the beach, on a boat, or on a city street, may be the single most effective change we can make in the effort to eliminate marine debris. For their part, municipalities can make sure to provide adequate public trash receptacles, update old sewer systems, and enforce anti-dumping laws. Improvements in recycling of goods and materials would keep even more debris off of our beaches and out of our waterways.

(text continues page 19)

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International Coordinators

Our thanks and praise go to the ICC coordinators whose time and energy made the 2000 cleanup a fun and safe event for everyone.

The international coordinators for the 2000 Cleanup are:

Argentina
Daniel Rolleri, Geographic Society of Patagonia & Antarctica

Bahamas – Nassau
Lynn Gape, Bahamas National Trust

Barbados
Madge Dalrymple, Ministry of Tourism

Belize
Hilberto Riverol, The Scout Association of Belize

Benin
Dr. Roger Djiman, Benin Center for Technology & Science Research (CBRST)

Bermuda
Lennox Boodram, Keep Bermuda Beautiful

Brazil
Salvatore Siciliano, Museu Nacional/UFRJ

British Virgin Islands
Orville Phillip, Conservation & Fisheries Department, Ministry of Natural Resources & Labor

Mervin Hasting, Conservation & Fisheries Department, Ministry of Natural Resources & Labor

Canada
Kathy Vucic, Keep Hamilton Clean Committee

Gay Wittrien, Atlantic Coastal Action Program (ACAP Saint John)

Allard van Veen, PITCH-IN CANADA

Valerie Thom, PITCH-IN CANADA

Bridget Savage, Vancouver Aquarium Marine Science Centre

Cayman Islands
Kim Garrahan Pisano, Cayman Tourism Alliance

Colombia
Luis Fernando Sanchez-Rubio, Universidad de San Buenaventura

Croatia
Ratko Profozic, EKO Rijeka

Cyprus
Andreas Demetropoulos, Cyprus Wildlife Society

Dominica
Terry Raymond, Dominica Conservation Association

Dominican Republic
Patricia Lamelas, CEBSE, Inc.

Ecuador
Cap. Herman Moreano, Programa de Maneja de Recursos Costeros

Guillermo Santa Maria, Programa de Maneja de Recursos Costeros

Cap. Miguel Mosquera B., Asociacion de Guias de Galapagos

Sergio Bazan, Asociacion de Guias de Galapagos

Egypt
Jorunn Majer, Ghazala Hotels - Sharm El Sheikh

Gabon
Serge Akagah, ONG Les Amis du Pangolin

Greece
Ypatia Mitsatsou-Aravantinou, HELMEPA/HELMEPA JUNIOR

Grenada
Joseph Antoine, Friends of the Earth Grenada

Stacyann Moses, Friends of the Earth Grenada

Haiti
Jean Wiener, Fondation pour la Protection de la Biodiversité Marine (FoProBiM)

Hong Kong
Frazer McGilvray, IMA Hong Kong

Indonesia
Hani Taufik, Yayasan JARI

Israel
Ronen Alkalay, Marine and Coastal Division, Ministry of the Environment

Jamaica
Shae-Tongee Stewart, W.E.C.A.N. Youth Club

Japan
Azusa Kojima, Co-Director, Japan Environmental Action Network (J.E.A.N.)

Yumi Kikuchi, Co-Director, Japan Environmental Action Network (J.E.A.N.)

Yoshiko Ohkura, Coordinator for International Relations, Japan Environmental Action Network (J.E.A.N.)

Edo Heinrich-Sanchez, Okinawa International Clean Beach Club

Kenny Ehman, Okinawa International Clean Beach Club

Kenya
Dr. Rene Haller, Baobab Trust

Kiribati
Taulehia Pulefou, Ministry of Environment & Social Development

Kuwait
Karen Snay, American International School of Kuwait

Latvia
Peter Bormanis, Keep Latvia Tidy Foundation

Malaysia
Jesse Siew, The Body Shop West Malaysia

Malta
Sarah Muscat, Marine Life Care Group (MALTA)

Mexico
Kurt Johnson, Center for Coastal Studies

Marcela Morales Martinez, Secretaria de Ecologia

Kerri McDaniel Rivera, The Bay and Beach Cleanup Group

Yael Bali, Planeta Limpio A.C.

Kenia Castañeda Nevárez, Intercultural Center for the Study of Deserts and Oceans

Jose Ruiz Silva, Sria. de Ecologia del Gobierno del Estado de Yucatan

Luis Armando Ruiz Sosa, Sria. de Ecologia del Gobierno del Estado de Yucatan

Micronesia
Katrina Adams, Kosrae Village Resort

Ahser Edward, Sea Grant, Com. Col. of Micronesia

Netherlands Antilles
Imre Esser, Sea Turtle Conservation Bonaire

Corine Gerharts, Sea Turtle Conservation Bonaire

George Jonkhout, Reef Care Curaçao

David Kooistra, Saba Marine Park

Elsje Bosch-Wilson, St. Maarten, National Heritage Foundation

New Zealand
Gael Arnold, Island Care New Zealand Trust

Nigeria
Prince Ene Baba-owoh, Clean-Up Nigeria

Norway
Alec Riedel, International School of Stavanger

Panama
Felipa Saavedra, Asociación Nacional para la Conservación de la Naturaleza (ANCON)

Papua New Guinea
Edward Kibikibi Jr., PNG Coastal Clean Up Association, Inc.

Peru
Martha Aldana, VIDA, Instituto para la Proteccion del Medio Ambiente

Arturo Alfaro, VIDA, Instituto para la Proteccion del Medio Ambiente

Philippines
Dr. Vaughan Pratt, International Marinelife Alliance

Bryan McCullough, International Marinelife Alliance

Clara Guzman, International Marinelife Alliance

Portugal
Thomas Dellinger, Universidade da Madeira

Saudi Arabia
Khalid Al Bassri, National Commission for Wildlife, Conservation and Development

Singapore
Evelyn Lim-Eng, The Nature Society

South Africa
John Kieser, Marine and Coastal Management

Rob Broker, KwaZulu-Natal Nature Conservation Service

St. Kitts & Nevis
Bryan Farrell, Ministry of Health and Environment, Dept. of Environment

Joan Robinson, Nevis Historical Conservation Society

St. Lucia
Charmaine Nathaniel, St. Lucia National Trust

Thailand
Dan Stantus, International School Bangkok (ISB)

Tonga
Jennifer Dudley, Tonga National Youth Congress

Turkey
Phil Yau, The British International School of Istanbul

Turks and Caicos Islands
Michelle Fulford, TCI Coastal Cleanup Organization

United Arab Emirates
Ahmed Bin Byat, Emirates Diving Association

United Kingdom
Samantha Pollard, Marine Conservation Society

Greg Brina, Marine Conservation Society

Amy Hinks, Marine Conservation Society

Venezuela
Zoyla Martinez, FUDENA

PROFESSIONAL ASSOCIATION OF DIVER INSTRUCTORS (PADI)

PADI-Asia Pacific
Neil Gladwin

PADI Europe
Thomas Sobotta

Pascale Cerovolo

PADI International
Suzanne Pleydell

Erika Hoffman

PADI Japan
Tatsuya Kitsukawa

PADI Norway
Trond Skaare

PADI Sweden
Immi Wallin

Hans Olsson

In Memoriam

It is with shock and regret that we note the tragic and untimely passing on May 1, 2001 of Eudora Ene Owoh of Nigeria.

Eudora, or Didi, as she was fondly called by all who knew her, was a tireless and energetic supporter of the International Coastal Cleanup. Since 1997, she relentlessly promoted the ideals of the Cleanup throughout Nigeria and appealed to politicians, cabinet members and state governors to join the cause. She donated her own money to ensure the success of both the 1999 and 2000 Nigerian Cleanups, and her efforts in recruiting schools in Port Harcourt made the 2000 International Coastal Cleanup the most successful ever in Nigeria. Eudora's personal commitment to educating others about marine debris, raising funds for local cleanups, promoting responsible solid waste management, and improving the quality of life in local communities inspired those who had the opportunity to meet her. She had an ability to bring out in people the spirit of cooperation and volunteerism. We were privileged to know Eudora, and will miss her dedication and enthusiasm to the cause of the environment.

Eudora was killed in a car accident days after her wedding to Prince Ene Baba Owoh, Jr. We extend our deepest condolences to Prince Owoh and their families.

People, Pounds and Miles—2000 International Coastal Cleanup

Cleanup Territory	Land			Underwater			Total		
	People	Pounds	Miles	People	Pounds	Miles	People	Pounds	Miles
Argentina	2,076	22,784	10.40	32	NR	NR	2,108	22,784	10.40
Bahamas	141	1,578	5.00	—	—	—	141	1,578	5.00
Barbados	180	3,400	6.00	45	1,080	0.50	225	4,480	6.50
Belgium	—	—	—	90	NR	NR	90	NR	NR
Belize	852	6,747	22.25	13	75	0.52	865	6,822	22.77
Bermuda	750	25,000	NR	—	—	—	750	25,000	NR
Brazil	4,599	23,669	56.13	151	2,547	12.12	4,750	26,216	68.25
British Virgin Islands	14	100	1.00	6	55	0.50	20	155	1.50
Canada	3,960	46,984	132.71	373	12,243	7.23	4,333	59,227	139.94
Cayman Islands	21	392	6.25	113	108	6.25	134	500	12.50
Colombia	1,152	11,132	14.86	271	7,017	2.55	1,423	18,149	17.41
Cook Islands	1,453	16,725	15.50	3	100	0.50	1,456	16,825	16.00
Costa Rica	77	1,814	7.59	55	637	2.44	132	2,451	10.03
Cyprus	13	275	0.68	39	333	0.93	52	608	1.61
Czechoslovakia Republic	5	13	0.50	11	51	0.40	16	64	0.90
Dominica	2,014	60,000	70.00	15	1,100	0.50	2,029	61,100	70.50
Dominican Republic	212	4,093	1.52	78	1,492	2.69	290	5,585	4.21
Ecuador	3,327	17,027	31.21	—	—	—	3,327	17,027	31.21
Egypt	153	1,698	1.24	392	2,356	2.36	545	4,054	3.60
El Salvador	115	2,100	6.24	300	2,000	6.24	415	4,100	12.48
France	—	—	—	50	NR	NR	50	NR	NR
Germany	—	—	—	904	4,072	NR	904	4,072	NR
Greece	1,096	28,848	28.15	52	964	1.61	1,148	29,812	29.76
Grenada	354	6,022	8.00	—	—	—	354	6,022	8.00
Guatemala	230	4,000	2.00	90	1,080	2.00	320	5,080	4.00
Honduras	24	100	0.25	15	100	0.25	39	200	0.50
Hong Kong	712	44,205	3.77	139	12,390	4.70	851	56,595	8.47
Hungary	11	616	0.62	8	44	0.03	19	660	0.65
Indonesia	166	1,352	2.50	36	122	0.87	202	1,474	3.37
Ireland	6	55	0.62	25	15	0.62	31	70	1.24
Italy	—	—	—	1,225	671	NR	1,225	671	NR
Jamaica	277	1,675	27.61	—	—	—	277	1,675	27.61
Japan	4,037	139,655	21.98	177	150	0.59	14,214	139,805	22.57
Jordan	2	14	0.31	19	191	0.31	21	205	0.62
Kenya	3,047	16,180	160.70	5	39	0.70	3,052	16,219	161.40
Kuwait	30	720	1.24	46	45	0.31	76	765	1.55
Lithuania	2,112	15,143	9.61	—	—	—	2,112	15,143	9.61
Malaysia	56	1,734	1.24	—	—	—	56	1,734	1.24

NR– cleanup activity but results not reported — no cleanup activity

Cleanup Territory	Land			Underwater			Total		
	People	Pounds	Miles	People	Pounds	Miles	People	Pounds	Miles
Maldives	—	—	—	405	NR	NR	405	NR	NR
Malta	—	—	—	30	1,650	0.31	30	1,650	0.31
Mauritius	41	33,000	1.50	—	—	—	41	33,000	1.50
Micronesia	66	83	4.50	NR	NR	NR	66	83	4.50
Mexico	1,185	254,267	69.75	124	1,492	3.88	1,309	255,759	73.63
Netherlands	—	—	—	322	660	NR	322	660	NR
Netherlands Antilles	750	14,439	10.60	140	2,344	6.31	890	16,783	16.91
New Zealand	4	NR	0.31	6	NR	0.31	10	NR	0.62
Nigeria	4,750	1,146,200	19.84	—	—	—	4,750	1,146,200	19.84
Norway	50	500	2.00	—	—	—	50	500	2.00
Palau	52	680	2.50	40	200	0.50	92	880	3.00
Panama	9	140	0.50	21	550	0.50	30	690	1.00
Peru	5,918	605,180	1,480.36	30	763	9.32	5,948	605,943	1,489.68
Philippines	588,562	6,259,747	7,204.96	2,566	49,371	1,375.73	591,128	6,309,118	8,580.69
Poland	24	429	1.86	33	550	1.55	57	979	3.41
Portugal	—	—	—	120	176	NR	120	176	NR
Republic Of The Marshall Islands	215	2,200	5.74	5	25	0.50	220	2,225	6.24
Saudi Arabia	47	418	1.39	129	1,753	1.71	176	2,171	3.10
Seychelles	46	104	1.24	16	290	2.48	62	394	3.72
Singapore	35	600	1.50	35	60	0.50	70	660	2.00
South Africa	13,532	137,988	598.61	66	33	0.62	13,598	138,021	599.23
Spain	—	—	—	790	NR	NR	790	NR	NR
St Kitts & Nevis	250	927	10.00	NR	NR	NR	250	927	10.00
St Lucia	10	120	0.25	11	50	0.25	21	170	0.50
Sultanate Of Oman	27	2,088	3.25	183	5,354	2.50	210	7,442	5.75
Switzerland	—	—	—	193	550	NR	193	550	NR
Taiwan	28	536	0.59	107	343	0.39	135	879	0.98
Tanzania	20	20,000	0.31	—	—	—	20	20,000	0.31
Thailand	10	105	1.00	68	1,658	4.95	78	1,763	5.95
Tonga	509	5,000	20.00	—	—	—	509	5,000	20.00
Trinidad and Tobago	53	500	2.00	13	300	1.00	66	800	3.00
United Kingdom	1,950	16,573	81.41	95	707	7.06	2,045	17,280	88.47
United States	168,471	4,342,582	8,881.44	3,948	106,921	150.59	172,419	4,449,503	9,032.03
Venezuela	100	125	1.00	35	35	0.33	135	160	1.33
Vietnam	570	4,400	4.96	—	—	—	570	4,400	4.96
Totals	830,558	13,354,781	19,071.05	14,309	226,912	1,629.01	844,867	13,581,693	20,700.06

Total Number of Countries: 73

Total Number of Debris Items Collected During 2000 International Coastal Cleanups

Debris Items	Total	Land	Underwater
PLASTIC:			
food bags/wrappers	**1,016,660**	1,008,873	7,787
salt bags	**37,046**	36,964	82
trash bags	**219,925**	219,080	845
other bags	**236,919**	234,834	2,085
plastic beverage bottles	**316,546**	311,038	5,508
bleach bottles	**52,996**	52,573	423
milk/water gallon jugs	**86,121**	85,014	1,107
oil/lube bottles	**51,517**	51,011	506
other plastic bottles	**123,603**	122,328	1,275
buckets	**22,837**	22,624	213
caps/lids	**441,451**	437,346	4,105
cigarette butts	**1,369,726**	1,351,884	17,842
cigarette lighters	**52,468**	51,946	522
cups/utensils	**180,170**	176,500	3,670
diapers	**48,740**	48,478	262
fishing line	**74,399**	72,568	1,831
fishing floats/lures	**46,328**	45,663	665
fishing nets	**53,246**	52,500	746
hard hats	**12,559**	12,533	26
light sticks	**105,359**	105,194	165
plastic pieces	**578,998**	575,336	3,662
pipe thread protectors	**10,353**	10,230	123
rope	**180,712**	179,035	1,677
long sheeting	**12,736**	12,575	161
short sheeting	**27,366**	27,030	336
six-pack holders	**27,606**	26,901	705
strapping bands	**40,942**	40,590	352
straws	**297,457**	294,578	2,879
syringes	**12,719**	12,640	79
tampon applicators	**16,627**	16,491	136
toys	**64,239**	63,999	240
vegetable sacks	**37,884**	37,714	170
write protection rings	**11,895**	11,831	64
other plastic	**396,929**	395,537	1,392
FOAMED PLASTIC:			
buoys	**38,884**	38,667	217
cups	**182,715**	179,973	2,742
egg cartons	**25,144**	25,027	117
fast food containers	**194,245**	193,083	1,162
meat trays	**25,118**	24,927	191
packaging material	**111,866**	111,080	786
foamed plastic pieces	**420,071**	416,464	3,607
plates	**80,131**	79,092	1,039
other foamed plastic	**117,800**	117,128	672
GLASS:			
beverage bottles	**291,162**	280,197	10,965
food jars	**42,029**	40,770	1,259

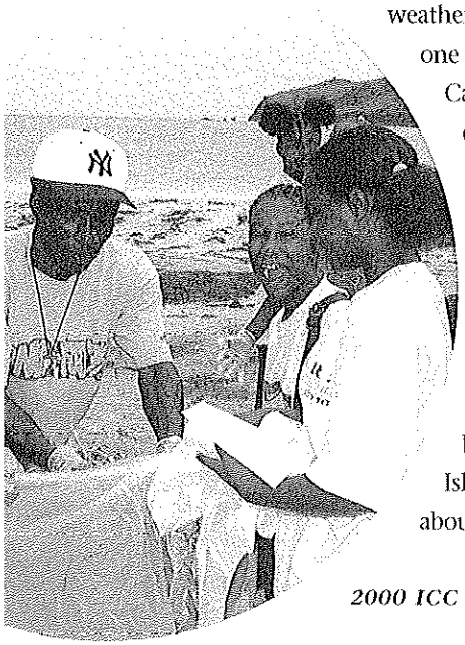
Debris Items	Total	Land	Underwater
GLASS: (cont.)			
other glass bottles/jars	**84,266**	83,505	761
fluorescent light tubes	**13,335**	13,287	48
light bulbs	**19,390**	19,283	107
glass pieces	**327,648**	322,941	4,707
other glass	**55,651**	55,071	580
RUBBER:			
balloons	**55,324**	55,073	251
condoms	**20,454**	20,291	163
gloves	**30,473**	30,243	230
tires	**31,283**	30,857	426
other rubber	**98,315**	97,140	1,175
METAL:			
bottle caps	**269,034**	266,621	2,413
aerosol cans	**42,889**	42,208	681
beverage cans	**272,205**	257,805	14,400
food cans	**78,453**	77,424	1,029
other cans	**31,152**	30,844	308
crab/lobster traps	**15,987**	15,895	92
55-gallon rusty drums	**13,349**	13,252	97
55-gallon new drums	**2,962**	2,954	8
metal pieces	**67,712**	66,341	1,371
pull tabs	**37,161**	34,555	2,606
wire	**35,150**	34,667	483
other metal	**100,388**	99,032	1,356
PAPER:			
bags	**94,495**	93,554	941
cardboard	**67,607**	67,213	394
cartons	**81,655**	81,173	482
paper cups	**77,339**	76,323	1,016
newspapers/magazines	**69,544**	69,016	528
paper pieces	**346,015**	339,874	6,141
paper plates	**44,873**	44,268	605
other paper	**94,519**	93,742	777
WOOD:			
crab/lobster traps	**9,881**	9,816	65
crates	**9,937**	9,883	54
lumber pieces	**105,312**	104,267	1,045
pallets	**20,559**	20,392	167
other wood	**88,950**	88,383	567
CLOTH:			
clothing/pieces	**92,987**	90,851	2,136
GRAND TOTALS	**10,700,498**	**10,567,890**	**132,608**

Highlights

More than 844,000 volunteers worldwide made the 2000 Cleanup a roaring success. Government officials in Mexico and Nigeria made appearances at the Cleanup, and many television crews and newspapers publicized and reported on the local cleanups.

Numerous sponsors donated free lunches, T-shirts, and coupons, and coordinators organized picnics, cookouts, puppet shows, educational demonstrations, contests, and parties to ensure that the Cleanup was a memorable experience for everyone. Volunteers in Ghazala Beach, Egypt, for example, danced in the sand to the music of DJ Mishka and singer Ahmed Zaki after cleaning their beaches. The Ecuador Cleanup involved sporting, recreational, and social activities, including the selection of Cleanup "queens" in each zone and presentations of folkloric and theatrical groups. Coordinators in Jackson County, Mississippi, USA painted faces, judged sandcastles, and offered hayrides on a tractor. And Mitiaro youth in the Cook Islands were treated to a whale-watching trip!

Some crews reported a beautiful, balmy, blue-skied day for the Cleanup, while other sites faced an unpredictable Mother Nature. Terrible weather and high winds prevented one underwater cleanup near Cape Town, South Africa, and a cleanup date in St. Kitts had to be pushed back due to impending tropical disturbances. Japan had similar bad luck with the weather: cleanups in all areas of Japan except for Okinawa had to be rescheduled because of typhoons; Miyake Island in Japan was evacuated about three weeks before the cleanup due to a volcanic eruption; and Nagoya in Aichi prefecture had to deal with floods. Yael Bali, an ICC Coordinator in Mexico reported that "One of the cleanups in Cancun was the day that we got the warning of Hurricane Keith coming in, but even so, three mothers with their six-year olds came to clean up." In the United States, Hurricane Gordon disrupted the Cleanup in Florida; meanwhile, volunteers in Lake Havasu City, Arizona, USA worked in 110-degree temperatures!



2000 ICC

Litter Fact!

Found: 31,283 tires.

Equates to tires for 78,208 cars.

Recycling was featured at many cleanups. "Everyone was very concerned about recycling and separating the garbage," reports Lis García Estrada, coordinator for the Playa Hermosa cleanup in Costa Rica. In fact, in Pennsylvania, USA, the recyclables separation party drew more volunteers than the cleanup! (The recyclers have been recruited for next year's cleanup effort.)

Younger citizens contributed appreciably to the Cleanup this year. Over 100 youth from different regions of the world picked up debris as part of the Coastal Zone 2000 Conference held in Saint John, New Brunswick, Canada. Enthusiastic students arrived at Ekert Beach in Nigeria before 7 a.m. in the morning to participate. Some students — like those in Lago Paranoá and Brasília, Brazil who were guided on how to separate recyclables by their high school biology teachers – used the opportunity to learn more about pollution and the marine environment. Students in Wisconsin, USA incorporated the Cleanup into a new science curriculum about water—13 different schools and over 800 students participated. Also in the United States, youth turned their education into action: New York students from Monroe County traced a large number of foamed plastic cups to a local bait shop and discussed with the owner

the possibility of switching to a more biodegradable container, while some Washington State students used part of the day to stencil "DUMP NO WASTE, DRAINS TO BAY" on storm drains in the area to remind people that storm drains are not trash cans.

Many cleanup crews noted how animals and vegetation had adapted to their polluted habitat. Volunteers in Aqaba Marine Park in Jordon found baby octopi in some aluminum cans, and gave them lots of coaxing to get them to come out and find a new home on the reef. Tiny crabs were found nesting inside of a bag of chips, one sunfish had made its home in a tire, and a tree had grown around a box spring that was in its way. Here are a few more highlights from the 2000 Cleanup:

FACING ADVERSITY

In Dalipaga and Iligaw City in the Philippines, volunteers didn't have enough trash bags because the city government garbage truck was on "standby (strike)" so they had to use agricultural bags and baskets instead. Thousands of volunteers still showed up for the Cleanup regardless of the fuel scarcity in Nigeria due to the strike by the petrol tankers union. And our coordinator in Micronesia could not hold the Cleanup due to "political challenges" in her country, but she is still determined to organize an underwater cleanup in 2001.

AN ARTIST FINDS BEAUTY EVERYWHERE

J.E.A.N. (Japanese Environmental Action Network) wanted see participants' creative side and hosted a photo contest entitled "A Message for our Future Ocean." They required contestants to submit three photos: one photo before the cleanup, one photo of the artists' "message to the ocean", and one photo with the "message" creators and participants.

CITIZENS MAKING A DIFFERENCE

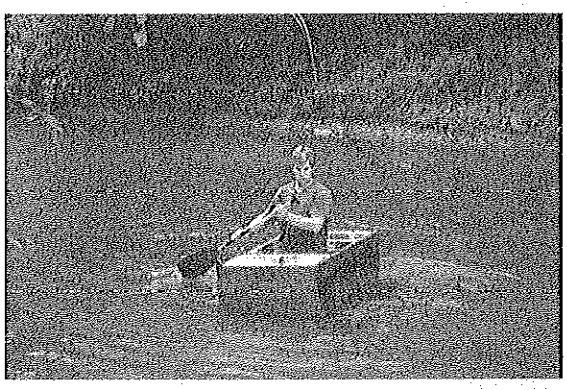
Environmental activists are having a huge impact in Nigeria. The Governor of the Rivers State visited Port Harcourt for the first time in 20 years to see what can be done about the neglected beaches, and Clean Up Nigeria and concerned citizens of Nigeria are also pushing to ratify and enforce MARPOL 73/78. Best of luck in your efforts!

YOUNG AT HEART

Think you are too old to dive into the great blue? Our volunteers will prove you wrong. Omar Ali Moh (64 years), and Janet Wedler (60 years), both PADI assistant instructors, helped with the cleanup in Sharm El Sheikh, Egypt. Six-year old Ayla Stephen proved that you are never to young, either. She was the only diver for her cleanup crew in Florida, USA.

BURIED TREASURES

Divers by Moulie Point Lighthouse near Cape Town in South Africa found no litter, but did find three billiard balls from a 1962 shipwreck. The billiard balls were given to the local Maritime Museum. Divers in Maine, USA collected artifacts for the Georgetown Historical Society before the city starts construction on a new bridge, and in Iowa, USA a participant found a 150-year-old buffalo bone that is also going into a museum.

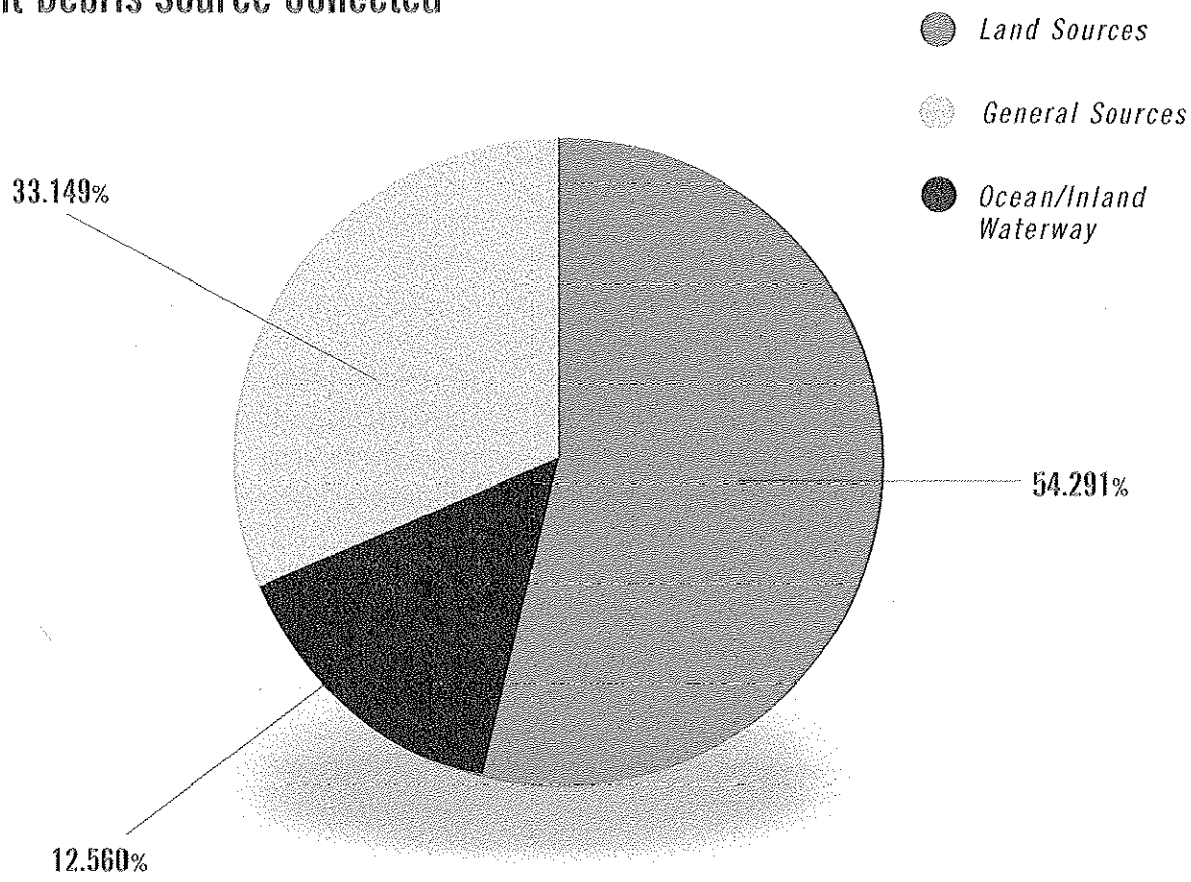


Resourceful US volunteer paddles a refrigerator to shore.

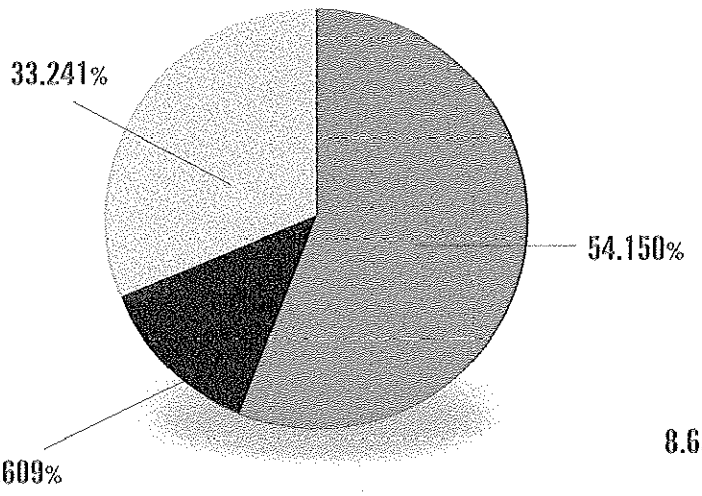
ROW, ROW, ROW YOUR...FRIDGE?

One cleanup crew in Virginia, USA found a refrigerator afloat in the water. After pondering how to bring it on land, one creative volunteer opened up the refrigerator, jumped inside and paddled it ashore. (See photograph above)

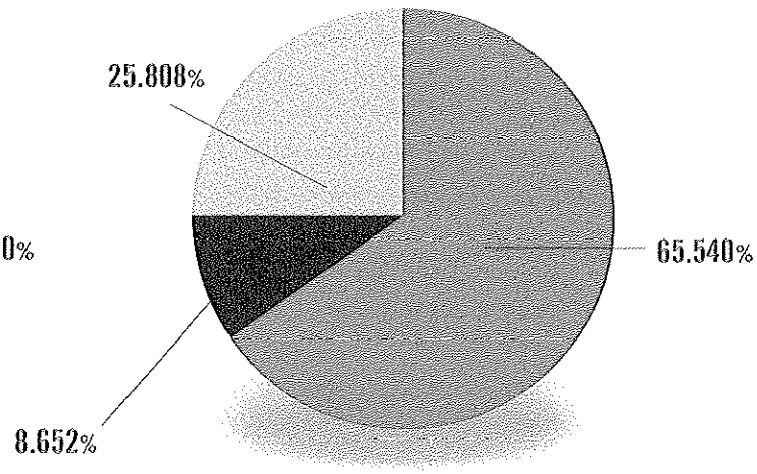
Percent Debris Source Collected



Debris Collected from Land and Underwater Cleanups



Debris Collected from Land Cleanups



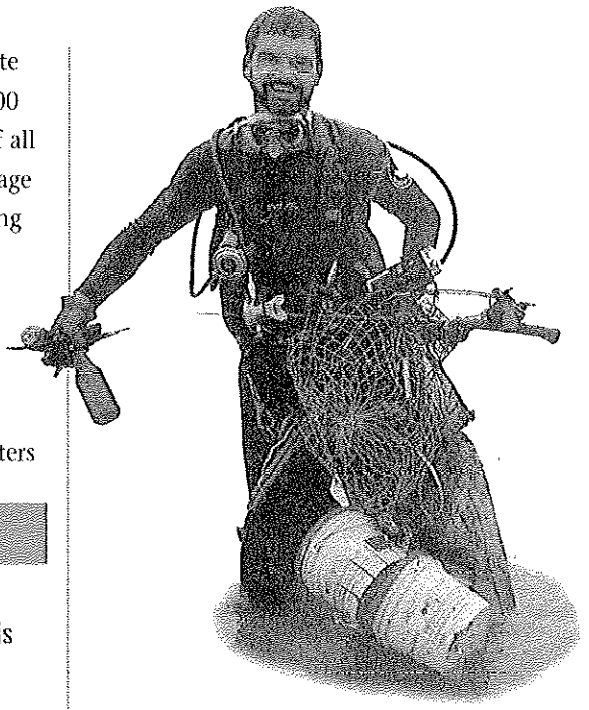
Debris Collected from Underwater Cleanups

The Dirty Dozen

WHAT WE FOUND

Every year we tabulate the top 12 most prevalent items found during the cleanup and list them in our annual report. Year after year the same items get the dubious distinction of being the "Dirty Dozen." The 2000 list predictably resembles 1999's twelve items, with cigarette filters once again on top. The 2000 Dirty Dozen comprises 56.77% of all the debris collected. This percentage is up slightly from 1999, indicating that these 12 items continue to plague our shores and waterways as debris. The top 12 items found during the 2000 Cleanup are listed in the chart below.

The percentage of cigarette filters collected in 2000 (12.80%) was about half a percentage point lower than 1999, continuing a pattern of steady decline in the percentage of total debris that cigarette butts represent.



2000 International Dirty Dozen – Total

	Items	Total Number Reported	Percentage of Total Debris Collected
1.	cigarette filters	1,369,726	12.80%
2.	food bags/wrappers (plastic)	1,016,660	9.50%
3.	plastic pieces	578,998	5.41%
4.	caps, lids (plastic)	441,451	4.13%
5.	foamed plastic pieces	420,071	3.93%
6.	other plastic items	396,929	3.71%
7.	paper pieces	346,015	3.23%
8.	glass pieces	327,648	3.06%
9.	beverage bottles (plastic)	316,546	2.96%
10.	straws	297,457	2.78%
11.	beverage bottles (glass)	291,162	2.72%
12.	beverage cans	272,205	2.54%
Dirty Dozen Totals		**6,074,868**	**56.77%**
13.	bottle caps (metal)	269,034	2.51%
14.	other plastic bags	236,919	2.21%
15.	trash bags (plastic)	219,925	2.06%
16.	fast food containers	194,245	1.82%
17.	cups (foamed plastic)	182,715	1.71%
18.	rope	180,712	1.69%
19.	cups, utensils (plastic)	180,170	1.68%
20.	other plastic bottles	123,603	1.16%
Top 20 Totals		**7,662,191**	**71.61%%**

Fun Fact!

Found: 272,205 beverage cans.
If you stack one on top of each other, it would measure over 108 Eiffel Towers!!!

This may be due to a number of factors, including the success of anti-littering campaigns, increased numbers of waste receptacles for used cigarettes in cities and on beaches, and the fact that many beaches are

being cleaned more often. Still, our volunteers found enough cigarette filters worldwide to make up 68,486 packs of cigarettes!

Eight items of the Dirty Dozen are made from some type of plastic. If cigarette filters are taken out of the equation, plastics and foamed plastics make up 65.28% of the debris found during the cleanup. If you keep cigarette filters in the equation, the figure rises to 69.73%. Plastics are ubiquitous, especially as food packaging, and they create a particularly difficult dilemma in the environment, because plastic is strong, durable, and does not easily degrade.

The most noteworthy differences from the 1999 Dirty Dozen come from a comparison of the items found in the underwater-only breakdown (see chart page 21). Balloons, number 18 on last year's underwater-only list, was not even in the top twenty this year. Pull tabs and fishing line appeared on the list, though they were absent from last year's Dirty Dozen.

2000 ICC

WHAT IT MEANS

Many smokers have developed the bad habit of tossing cigarette filters out car windows, along sidewalks, and on our beaches. No matter where you toss your cigarette, heavy rains and storm drains can carry these lightweight materials toward our oceans and waterways. Cigarette filters are composed of cellulose acetate, a synthetic polymer (a form of plastic), and can take up to seven years to biodegrade. Most people assume that one little cigarette butt is too small to make an impact on the environment, but one filter can cause harm to marine life, and 1.3 **million** of them, as our volunteers

2000 International Dirty Dozen – Land

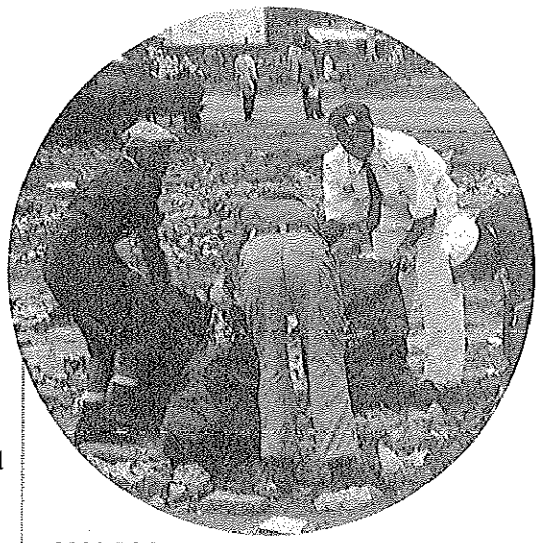
Items	Total Number Reported	Percentage of Total Debris Collected
1. cigarette butts	1,351,884	12.79 %
2. food bags/wrappers (plastic)	1,008,873	9.55 %
3. plastic pieces	575,336	5.44 %
4. caps, lids (plastic)	437,346	4.14 %
5. foamed plastic pieces	416,464	3.94 %
6. other plastic items	395,537	3.74 %
7. paper pieces	339,874	3.22 %
8. glass pieces	322,941	3.06 %
9. beverage bottles (plastic)	311,038	2.94 %
10. straws	294,578	2.79 %
11. beverage bottles (glass)	280,197	2.65 %
12. bottle caps (metal)	266,621	2.52 %
Dirty Dozen Totals	**6,000,689**	**56.78%**
13. beverage cans	257,805	2.44 %
14. other plastic bags	234,834	2.22 %
15. trash bags (plastic)	219,080	2.07 %
16. fast food containers	193,083	1.83 %
17. cups (foamed plastic)	179,973	1.70 %
18. rope	179,035	1.69 %
19. cups, utensils (plastic)	176,500	1.67 %
20. other plastic bottles	122,328	1.16 %
Top 20 Totals	**7,563,327**	**71.56 %**

found, create a serious hazard. Birds, sea turtles, whales, and other marine animals accidentally ingest the cigarettes filters, causing severe intestinal problems, and sometimes even death. If smokers disposed of their used filters only in appropriate receptacles, our beaches and waterways would be cleaner, and safer.

Since 1990, the following nine items have appeared in the Dirty Dozen every year: cigarette filters, plastic pieces, foamed plastic pieces, paper pieces, plastic caps and lids, glass pieces, glass beverage bottles, plastic straws, and beverage cans. Most of these items are whole or remnants of waste from prepackaged food or beverage products—in other words, it is what we throw away after we have consumed or used the product.

2000 International Dirty Dozen - Underwater

	Items	Total Number Reported	Percentage of Total Debris Collected
1.	cigarette butts	17,842	13.45%
2.	beverage cans	14,400	10.86%
3.	beverage bottles (glass)	10,965	8.27%
4.	food bags/wrappers (plastic)	7,787	5.87%
5.	paper pieces	6,141	4.63%
6.	beverage bottles (plastic)	5,508	4.15%
7.	glass pieces	4,707	3.55%
8.	caps, lids (plastic)	4,105	3.10%
9.	cups, utensils (plastic)	3,670	2.77%
10.	plastic pieces	3,662	2.76%
11.	foamed plastic pieces	3,607	2.72%
12.	straws	2,879	2.17%
Dirty Dozen Totals		**85,273**	**64.30%**
13.	cups (foamed plastic)	2,742	2.07%
14.	pull tabs	2,606	1.97%
15.	bottle caps (metal)	2,413	1.82%
16.	clothing pieces	2,136	1.61%
17.	other plastic bags	2,085	1.57%
18.	fishing line	1,831	1.38%
19.	rope	1,677	1.26%
20.	other plastic items	1,392	1.05%
Top 20 Totals		**102,155**	**77.03%**



2000 ICC

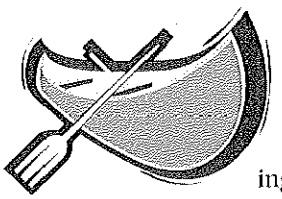
Because marine debris travels from one location to another, controlling the pollution in one country often depends on similar efforts taken in other countries. And countries popular with tourists must manage the trash of persons who may or may not have a comparable level of environmental awareness. Less wealthy nations may need to rely on outside monetary support to implement improved sewage systems and waste management facilities. And while some countries may have the proper systems in place, they face the additional challenge of trying to change their citizens' ingrained habits of littering.

The similarity between the top twelve items every year reflects that we are not successfully meeting our pollution prevention challenges. Forget trying to focus on eliminating all land-based sources of debris for a minute...if people could prevent just these **12 items** from becoming marine debris, our beaches and oceans would be 57% cleaner!

(text continues page 24)

You Want It? We've Got It!

If shipwrecked sailors were to land on our modern-day beaches, they would be able to live like royalty with the amount of appliances, electronics and furniture found by our cleanup volunteers. Power sources? No problem—volunteers found a ton of batteries on the beach. The sailors would have enough auto and boat parts to handle sufficient transportation, and they would even find some decorations for Christmas. Here are some of the more peculiar items and interesting items found by our volunteers during the 2000 Cleanup.

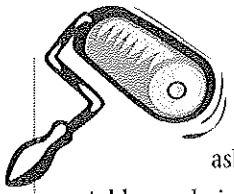


SAILING ON THE HIGH SEAS

Dinghy hull, boat gas gauge, boat winch, broken fishing poles, tackle and bait boxes and assorted bait, 12'x2' floating dock, fiberglass chair seats, oars, 4-ton boat engine, outboard motor, anchors, anti-backflow valve from a marine toilet, boat batteries, boat cushions, boat and ship doors, boat ladder, boat propellers, rudder, fuel tank, pumps, life preservers, pair of waders, sailboat sail, boat stove, boats and partial boats including a broken canoe, 4'x8' paddle boat and Hobie Cat sailboat pontoon

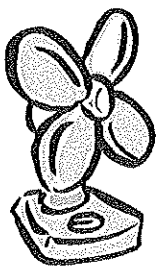
PHARMACY AT SEA

Dental mirror, hospital garbage, Bayer urine test strips, blood vial, breathing mask, marijuana bags and pipes, bag of cocaine, crack vials, asthma inhalers, a bed pan, biohazard bag, Band-Aids, birth control pill container (empty), blood pressure cuff, bloody swab stick, crutches, diabetes tester with blood, insulin bottles, enema bottle and applicator, eye patch, hypodermic needle, half-used tube of Preparation H, hospital I.D. bands, IV bag, cord, and needles, Nicoderm patch, prescription pills, stethoscope, wheelchairs, thermometers, knee brace, finger splint, wrist brace, test tubes



HANDYMAN'S HEAVEN

Felt roofing tiles, asbestos pipe and asbestos sheets, clay tile, window frame, metal bars, chain link fence, chainsaw, industrial cables and fuses, lead pipe, ruler, soldering gun, paint thinner, bucket of tar, lumber, plastic pipes, roof shingles, 24-foot aluminum ladder, nails, pieces of bathroom tiles, asphalt shingles, bathroom door, wheel barrow without wheels, bricks, broken Porta-Potty, can of glue, bottle of caulking, cement blocks, construction hazard barrel, construction sign, door hinges, door knob, drain pipe, duct tape, glass light fixture, glass sliding doors, gutter, kitchen counter top, linoleum, paint brushes and paint rollers, plywood, scaffolding, window screens, sheet rock, wrenches, bolts, cable, chains, electric drill and drill bit, electric fuse box, hammer, screws, nails, sandpaper, saw blades, shovels, screw driver, pliers, welding goggles



THERE GOES THE NEIGHBORHOOD...

Bed comforters, candles, a can opener, fire extinguisher, garden umbrella, kebab skewer, waterbed bladder, carpeting, rugs, ovens, coconut glasses, toilets and toilet seats, hose, chairs, telephones, couches, propane tanks, batteries, afghan, air conditioner units, air mattresses, antique bone-handled knife, artificial flowers, baby car seat, baby carriage, baby stroller, baking racks, bar stool, bath tub, sinks, BBQ grills, beds, box springs, Easter egg, bottle of Windex, broken mini-blinds, broken playpen, brooms, can of potted meat, cat pooper-scooper, Christmas decorations, electric fans and heaters, fire hydrant, hammock, lawn mowers, lamps, microwaves, refrigerators, suitcases, vacuum cleaners, waffle iron, weed whacker

IN THE LINE OF FIRE

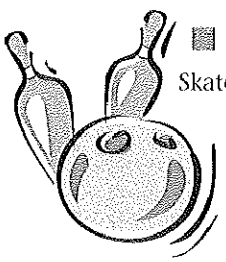
Flare gun casings, shotgun shells, a 38-caliber gun, ammunition, arrow, BB gun refill, bullet casings and wads, grenade, a mortar launcher, pellet gun and canister, pocketknife

DISCOUNT AUTO PARTS (AND OTHER MODES OF TRANSPORTATION)

Car trunk, a roof rack, front ends of cars, John Deere 4x4 vehicle, motorcycles, seatbelts, antique motor, auto mufflers, broken headlights, broken windshield, bucket of used motor oil, license plates, air filters, radio antennas, arm rest, car batteries, brake pads and a brake pedal, bumpers, dashboards, engines, exhaust pipes, car keys, floor mats, car stereo and speaker, glove compartment, rear-view mirror, hubcaps, mud flaps for trucks, radiator, steering wheel column, trailer hitch, windshield wiper blades, spark plugs, gas cans (one full of gas), guard rails, helicopter, orange road cones, parking meter, parking sign, parts from a crashed airplane, road reflectors, road signs, wagon

GADGETS AND GIZMOS GALORE

"ESC" key from a computer keyboard, magnetic tape, plastic protector for electronic device, 4-way appliance plug, Apple portable computer and other computers, calculator, cameras (two waterproof cameras), cassette players and tapes (Van Halen '94), CD player and CDs, cell phones, circuit boards, a commercial copier and copy machine parts, computer monitors, mouse and mouse pad, eight track tape, headphones, ink jet cartridges, pagers, record players and records, remote controls, satellite dishes, stereos, speakers, TV sets, VCRs, telephone cords

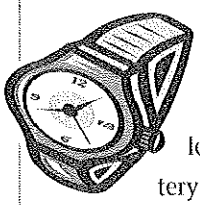


LOSING IS PART OF THE GAME

Skateboard, golf balls, skates, roller blades, surfboards, tennis balls, bicycles, bicycle inner tube, tricycles, badminton set, baseballs, bats, and gloves, Bingo card, bowling ball, brand new golf club in the wrapper, Frisbees, cooler, diving board, duck decoys, goggles, kayak and paddles, kites, lawn furniture, basketballs, pogo stick, ski pole, scuba equipment, snowmobile, swimming pools, tackling dummy, tents, wet suit, beach chairs, parachute flare still with charge

INDECENT DISPOSALS (AND OTHER PERSONAL ITEMS)

Contraceptive foam, disposable douches, 30 letters, nail polish remover, toupee, airline luggage tag, "I love to party" key chain, eyeglasses, pair of Oakley sunglasses, toothbrushes, E.P.T. pregnancy kit, contact lens solution, dentures, fake fingernails, hair curlers, hair extensions, baby wipes, dental floss, deodorant, pacifiers, wigs, a briefcase, backpacks, homework, Father's Day card in envelope (undelivered), message in a "LOVE" picture frame, teeth bleaching kit, hearing aid, retainer



CHA-CHING

Barclay and other bank cards, jewelry box, jewels, a safe and a cash till box, at least $180.83 in cash U.S., bracelet, lottery tickets, money from Nicaragua and Costa Rica, diamond earring, dive watch, drivers licenses, wallets, gold coins, Indian head penny, phone cards, purses, rabbit's foot, rings, Timex watch (still working), U.S. passport, soccer ball signed by Carla Overbeck, food stamps, a check and a checkbook

SAVE THE PLANET: DON'T LITTER

Environmental leaf bags, a Nature Conservancy sign, oil booms and oil boom pieces, recycling bin

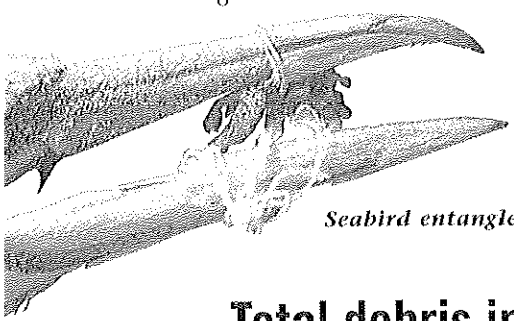
AND TOO WEIRD TO CATEGORIZE!

Typewriter, weather balloon, city garbage cans, fireworks and bottle rockets, American flag, arrest warrant, Barbie's big wheel jeep, Bible, binoculars, bottle with a message inside, flea collar with ID tag "Fluffy", guitar, picture of a naked girl on a horse, overhead projector, pink flamingo, decorative cows, books, a safe, "Do Not Cross" police tape, "For Sale" sign, "No Littering" sign, shopping carts, wedding pictures, political campaign signs, barrels, broken rickshaw, burnt police training manual, cafeteria tray, channel marker, hotel door handle, mailbox, map of Florida, phone bills, police radio scanner, report card, torch, whoopee cushion, rosary beads, manhole cover

The Dangers of Debris

Marine debris has a devastating and often lethal effect on marine wildlife. Each year volunteers find animals entangled in pieces of trash; 2000 was no exception.

Marine animals easily become entangled in debris floating in the water or left on the beach. Monofilament lines, fishing nets, six-pack rings, and strapping bands are some of the worst culprits. Birds, for example, often become entangled in trash they have selected for nesting.

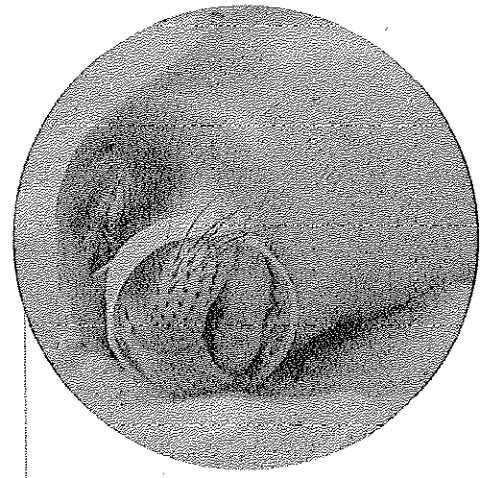


Seabird entangled in balloon and string.

Debris that has wrapped around limbs, fins, or flippers causes circulation loss and amputation, especially as the animal grows. Animals slowed down by trailing debris are more vulnerable to predators. Heavy large plastic sheets and other large debris smother or trap sand-dwelling animals and drown those that rise to the surface to breathe.

Accidental ingestion of marine debris also injures and kills marine animals.

According to the most recent U.S. Marine Mammal Commission report in 1997, six of the world's seven species of sea turtles, and at least 111 of the world's 312 species of seabirds have been reported to swallow floating pieces of debris. Sea turtles confuse floating plastic bags with jellyfish, one of their favorite treats. Seabirds, too, are vulnerable to the unintentional ingestion of debris because of their indiscriminate eating habits. Many animals cannot regurgitate an item once it has been swallowed, and it often becomes lodged in their throats and digestive tracts. Debris that will not pass out of the stomach gives a false sense of fullness, and some animals will stop



Hawaiian monk seal in plastic pipe collar.

Total debris involved in animal entanglements

Debris Items	Invertebrates	fish	amphibians	birds	reptiles	mammals	total
balloon ribbon/string	1	2		6		1	10
fishing line with hook/lure	24	50	1	84	4	3	166
crab/lobster traps		4		1	1		6
fishing nets/rope	6	13		4	2	2	27
plastic bags	11	14		11		10	46
plastic sheetings	1	3	1	5		2	12
rope	9	33		8	2	2	54
six-pack holders	6	4		16			26
strapping bands	1	1		1			3
wire	5	5		5	1	3	19
miscellaneous	1	2		1			4
Total	**65**	**131**	**2**	**142**	**10**	**232**	**373**

eating, and slowly starve to death. Ingested debris such as cigarette filters can also poison wildlife, releasing toxins into the bloodstream.

WHAT WE FOUND

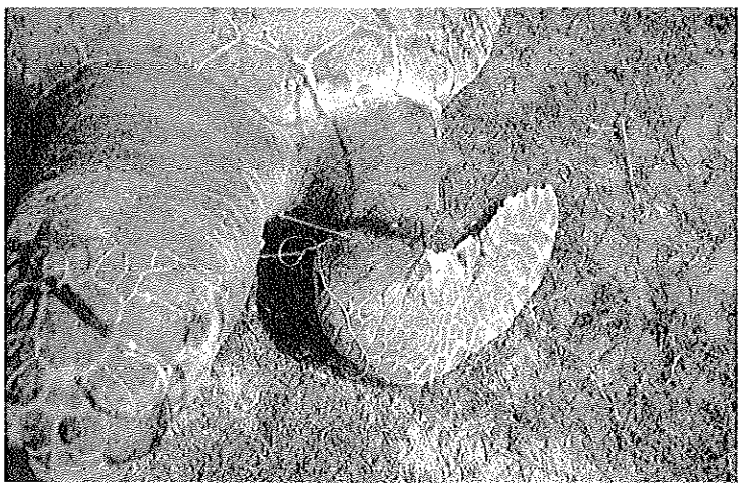
Our volunteers found 373 animals entangled in some type of debris (see table page 24). Most of the victims were birds—our volunteers found 142 of them—while fish (131 reported) were the second most frequently found entangled animal. Fishing line caused about 45% of the entanglements, rope was a distant second causing 54 (14%) entanglements. Volunteers also found animals entangled in balloons with ribbons, fishing nets, plastic bags, six-pack holders, wire, crab or lobster traps, plastic sheeting, and strapping bands.

Fishing lines are particularly hazardous to marine animals because they are designed to withstand the thrashing, yanking, and pulling of an animal trying to escape. Likewise, fishing nets purposefully ensnare fish. When these items break loose in our waters they become a floating death-trap for wildlife. "Ghost-fishing" is the term used to describe abandoned nets and gear still catching fish that will never be retrieved. In 2000 volunteers collected a combined total of 127,645 fishing lines and nets in a three-hour period on one day out of the year.

WHAT IT MEANS

The amount of trash collected during the Cleanup gives us an idea of the hazards marine wildlife face daily with marine debris. More than 1.3 million cigarette butts and 1,016,660 plastic bags and wrappers might have been ingested, and 74,399 pieces of fishing line, 27,606 six-pack holders, and 180,712 ropes could have entangled unsuspecting animals. Each piece of debris that enters the ocean or waterway has the potential to injure or kill marine life.

The number of entangled marine animals reported during the Cleanup represents just a snapshot of the amount of damage debris causes to marine animals. Volunteers were not able to reach every mile of coastal land, and divers were certainly not able to cover every inch underwater. Every day more trash gets dumped into our waters and travels for miles. And, of course, we will never know how many animals suffer and die every year on the open sea, never to be recorded as a casualty of debris. Large or small, each piece of debris carries with it a genuine threat to marine wildlife.



Loggerhead sea turtle. Fishing line is amputating front flipper.

Beyond the Cleanup

Every year, people around the world remove millions of pounds of trash from the world's beaches and waterways during the International Coastal Cleanup. These volunteers share our vision of cleaner waters and our goal of reducing and, eventually eliminating, marine debris.

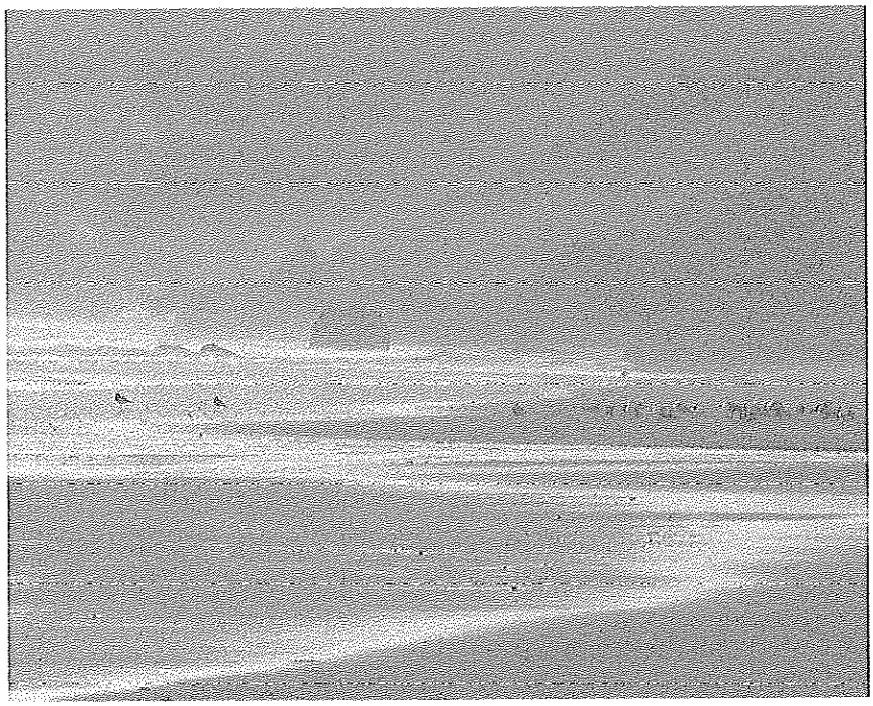
Yet, yearly cleanups are only a temporary bandage on a much larger global wound. Improving the quality of our waters means going to the individual sources of marine pollution to stop litter and waste from becoming marine debris.

The solution involves a focused approach on multiple fronts. Public education is essential in helping people understand how one plastic bag or one soda bottle can affect the environment. Cities must closely inspect their solid waste management facilities and renovate outdated sewer and storm drain systems so that wastewater and street runoff is handled in an environmentally sound manner. Consumers must demand recycled goods and better recycling facilities to find useful purposes for the ever-increasing amount of trash we create.

Agreements like the MARPOL treaty demonstrate that people and governments are becoming more aware of the immensity of our global marine pollution problem. But we still have a long way to go.

The Ocean Conservancy conducts a number of programs designed to take the lessons of the Cleanup and create long-lasting solutions to the problem of marine debris. These activities are direct outgrowths of the International Coastal Cleanup, and each tackles marine debris from a slightly different angle. Collectively, they educate neighborhoods about watershed drainage patterns; create conditions that yield reliable monitoring data; and involve communities in creating their own solutions.

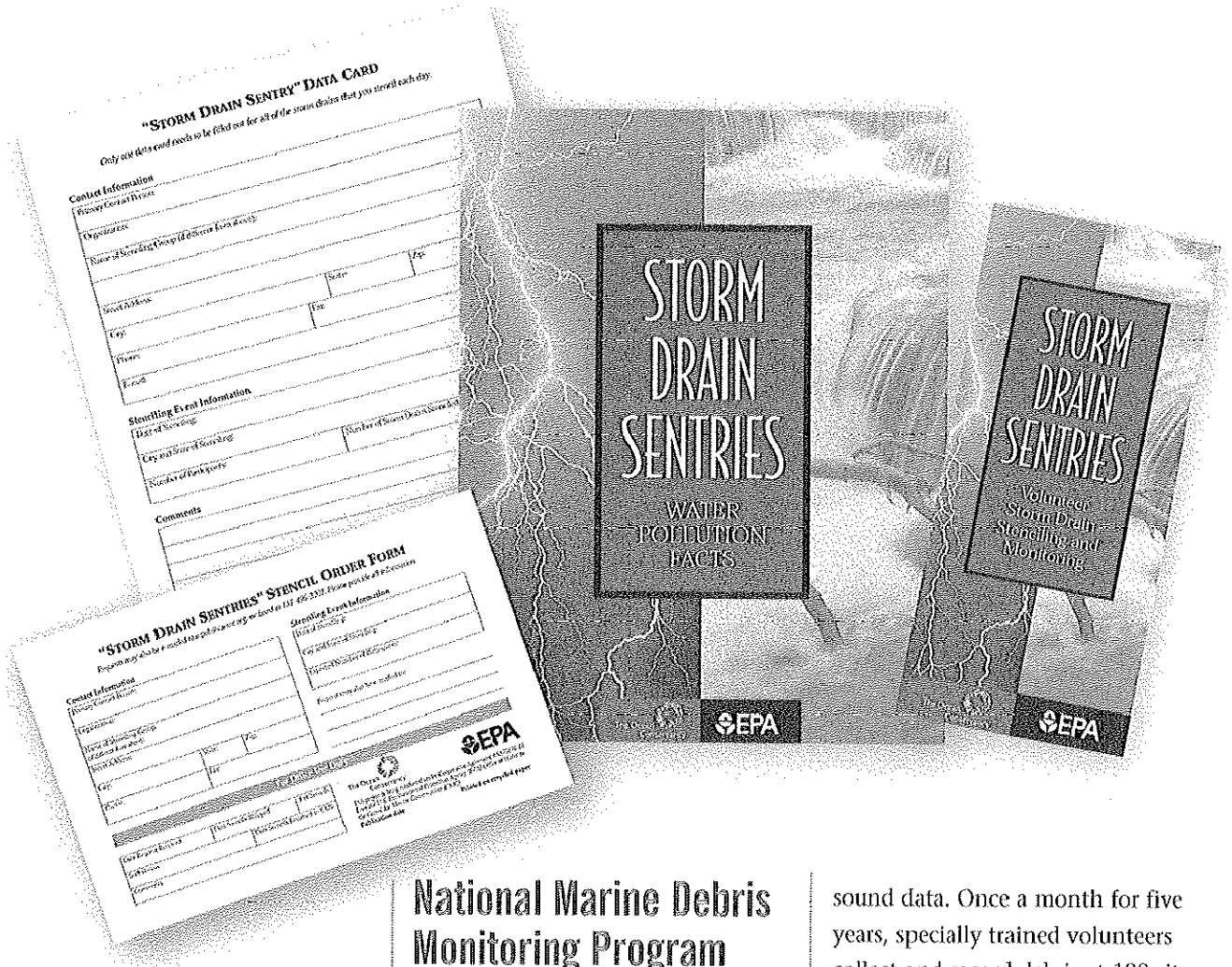
Except where noted below, the following activities are limited to the United States. Please call The Ocean Conservancy's Office of Pollution Prevention and Monitoring at 757-496-0920 to learn more about the programs, and how to set up similar programs in your country.



Storm Drain Stenciling

Many people don't realize that the storm drains in their neighborhoods are direct links to nearby bodies of water, and that stormwater runoff containing street litter, household and automotive chemicals, and other pollutants rarely receives the benefit of treatment before it discharges into bodies of water.

Managed by The Ocean Conservancy and funded by the U.S. Environmental Protection Agency, Storm Drain Sentries is an education campaign designed to alert the general public about nonpoint source pollution and the direct connection between land activities, storm drains, and local water quality. Volunteers



The Ocean Conservancy's Storm Drain Sentries program aims to reduce non-point source pollution, the greatest single source of water pollution.

stencil storm drains with messages such as "Don't Dump! Protect Your Water."

The Ocean Conservancy sends interested groups a storm drain stenciling kit complete with a fact sheet about nonpoint source pollution, its impacts, and what citizens can do to prevent it. The kit also contains instructions for conducting a stenciling project and a data card for recording information about the number of storm drains stenciled and the types of pollutants found around them.

National Marine Debris Monitoring Program

Data from the International Coastal Cleanup have been used to inform legislative hearings, shape U.S. government programs and research, support public education campaigns, and ultimately spur changes in federal and state law and industry practice. These statistics, however, lack the degree of rigor that comes only from controlled conditions—conditions that are impossible to enforce at once-a-year events at varying conditions at the sites, and varying levels of expertise among participants.

The Ocean Conservancy's National Marine Debris Monitoring Program, supported by the Environmental Protection Agency, answers the need for scientifically sound data. Once a month for five years, specially trained volunteers collect and record debris at 180 sites across the country. At the conclusion of the five-year study, The Ocean Conservancy will conduct a statistical analysis to determine whether marine debris is significantly diminishing in response to current laws and education efforts. It will also help us identify the major sources of the debris.

The debris study is an excellent opportunity for volunteers to become more involved in combating marine debris by becoming active participants in this scientific study. School groups, community organizations, Scout Troops, and concerned citizens are participating in this study at sites located along the entire U.S. coastline including Alaska, Hawai'i, Puerto Rico and the U.S. Virgin Islands.

Local Solutions

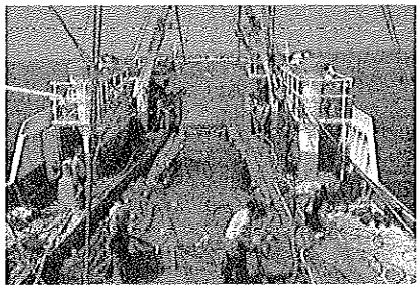
Using data from the Cleanup, The Ocean Conservancy is working with coastal communities around the country and in the Wider Caribbean to develop specific strategies to help keep their wastes out of the water. With support from the Brunswick Public Foundation, Coca-Cola, Philip Morris, and Royal Caribbean International, The Ocean Conservancy's Model Communities program operates on the principle that a problem that originates at the local level must be solved at the local level.

Current Model Communities projects focus on four activities that can result in marine pollution:

RECREATIONAL BOATING AND MARINA OPERATIONS

Through its Good Mate boating program, The Ocean Conservancy is developing educational and training materials for marina staff and recreational boaters to increase awareness of the potential impacts of everyday boating activities—such as fueling, bilge cleaning, vessel maintenance, and vessel operation—and how to prevent or minimize their adverse effects on the environment.

Good Mate was developed and tested in collaboration with the Pinellas County Departments of Solid Waste and Environmental Management in Florida. It has since been expanded for use throughout



the entire United States through partnerships with the U.S. Coast Guard and Coast Guard Auxiliary and into the Caribbean—with projects in Puerto Rico, the U.S. Virgin Islands, the Bahamas, and Bermuda.

RECREATIONAL AND COMMERCIAL FISHERS

The Ocean Conservancy partnered with Hawai'i Sea Grant to develop its Marine Bounty program,which brought attention to the threats that derelict fishing gear poses to humpback whales, coral reefs, and critically endangered Hawaiian monk seals. Through this program, fishers and other boaters reported the presence of derelict gear in Hawaiian waters. Hawai'i Sea Grant removed the gear from harm's way. A second phase of the project is being developed.

Organizers of a newly emerging project in North Carolina will develop a public education campaign for fishermen on piers and docks. The program will focus on improving the handling of bait containers/bags, fishing line, lures, food items, cigarette/cigar filters and packaging, and other waste materials typically found at these sites.

RECREATIONAL BEACH ACTIVITIES

In Piñones, Puerto Rico, community leaders recognized the lack of adequate waste disposal facilities at a popular beach. Through the Model Communities program they introduced solid waste management strategies that reflected local cultural and social conditions. A permanent recycling center now recycles materials from all the communities surrounding the San Juan Bay Estuary.

URBAN AND COASTAL LITTERING

Several Model Communities projects focus on reducing the number one item found at cleanups—cigarette butts.

In Ocean City, New Jersey, organizers conducted a public education campaign encouraging beach users to use several newly installed cigarette receptacles. A second project site in another New Jersey city is being discussed.

In Baton Rouge, Louisiana, project partners developed informational materials explaining the environmental impacts of cigarette litter. The materials were distributed at festivals, public meeting places, and college football tailgate parties.

In Virginia, project organizers will work with coastal businesses such as restaurants and hotels to provide adequate cigarette disposal receptacles and encourage patrons to use them.

APPENDIX 1: International Sponsors

Argentina
Celulosa Argentina
Diario El Dia
Esso
Gigot Cosmeticos
Nucleoelectrica Argentina
Proctor & Gamble Interamericas
Repsol YPF
Siderar
Siderca

Bahamas
Asa H. Pritchard
Auqapure
Bahamas Waste Management
Deloitte and Touche
City Markets
The D'Albenas Agency

Belize
Atlantic Bank Ltd.
Augusto Quan Ltd.
Bank of Nova Scotia
Barclays Bank PLC
Belize Bank Ltd.
Belize Waste Control Ltd.
Big-H Enterprises
Northern Fishermen Cooperative Society Ltd.
Novelo's Bus Service

Bermuda
Major Sponsors
- Coors
- TeleBermuda International
- CellularOne
- Ministry of Works & Engineering

Other Sponsors
- Dunkley Dairies
- John Barritt & Son
- Metro Mineral
- Butterfield & Vallis
- Rosedon
- Road Runner Trucking
- Undercover Tent Rental
- The Parks Department
- Elbow Beach Resort
- Market Place
- The Porch
- The Flying Chef
- Fair Hamilton Princes
- The Cake Shop
- Telecom
- Capital G
- Marine Locker
- Knick Knack
- H. Davidson & Co. Ltd.
- Sail On Making Waves

British Virgin Islands
Conservation and Fisheries Department

Canada
ACAP Saint John
ALERT
Braxco
BRITA
Canada Corporation
Canadian Coast Guard
City of Saint John
Coastal Zone 2000
Connors Bros.
Eastern Charlotte Waterways
Friends of the Environment Foundation
Fundy Region Solid Waste Commission
GE Barbours Ltd.
Hon. Elsie Wayne MP
Irving Nature Park
Irving Oil
Keep Hamilton Clean Committee
Lantic Sugar
Millidgeville Market Superstore
Mispec Recreation Committee Inc.
NB Tel
PITCH-IN CANADA
Province of New Brunswick
Saint John Port Authority
Ship & Shore Cartage Ltd.
Stolt Sea Farm Inc.
TD Friends of the Environment Foundation
The Ocean Conservancy
Tim Horton's West
Vancouver Aquarium Marine Science Centre

Colombia
Armada Nacional, Guardacostas
Clean Up Entity Ciudad Limpia
Club De Leones–Cartagena Exelencia Fundacion Mario Santo Domingo
Corporacion Del Medio Ambiente, Cardique
Cruz Roja De Bolivar
Estrantegia Ecoturismo Caribe
Fiscalia General De La Nacion, Futuro Colombia
Fundacion Mamonal Aste–Comite Ambiental
Fundacion Proboquilla (Fundacion Comunidad)
Fundacion Verde Que Te Quiero Verde
Parque Corales Del Rosario Y San Bernardo
Policia Nacional
Prensa Esculea, News paper, El Universal
Secretaria De Educacion Red De Educadores Ambientales
Secretaria Del Medio Ambiente–Damarena (Guardias Ambientales)

Dominica

Amerijet International
Cable and Wireless Dominica
Caribbean Construction Development
Depex Colour Lab
Dominica Association of Industries and Commerce
Dominica Broadcasting Services
Dominica Coconuts Products
Dominica Conservation Association
Dominica Electricity Services LTD
Dominica Solid Waste Management Cooperation
Courts Dominica
Environmental Health Department
Government Information Services
Green Peace International
J. Astaphans & Co 1970 Ltd.
Josephine Gabriel and Company Ltd.
Kairi FM
Kentucky Fried Chicken (KFC)
Local Government Department
National Development Cooperation
National Petroleum
O.D. Brisbane and Sons
P.H. Williams & Co 1979 Ltd.
R.C. Enterprises
Roseau City Council
Ross University
Royal Bank of Canada
Springfield Trading
The Chronicle Newspaper
The Ocean Conservancy
Tropical Shipping
Western Union
Youth Development Division

Ecuador

Coastal Resources Management Program

Egypt

Americana: KFC/Pizza Hut
Conrad International Hotel
Diving Union
Eastmar Travel
Moevenpick Golf & Resort
Ghazala Gardens Hotel
Ghazala Village Hotel
Hard Rock Café
Hilton Fayrouz Hotel
Mariott Resort
McDonalds
National Parks of Egypt
Restaurant El Fanar
Sanafir Hotel
Sharm Ladies Club
Sheraton Sharm Hotel
TLC Company

Greece

HELMEPA JUNIOR

Japan

All Japan Sponsors

ANA HOTELS WORKERS UNION
Circle K Japan Co., Ltd.
Esso
HEART CLUB (in Mitsui Marine)
Kanagawa Beach Cleaning Foundation
Sapporo Brewery Ltd.
Sankus and Associates
The Beverage Industry Environment Beautification Association

Kanto

Dunlop Home Products Ltd.
Fuji Coca-Cola Bottling Co. Ltd.
Otsuka Seiyaka Co, Ltd. (Yokohama Sales Section of The Tokyo Branch)
Sumitomo Gomu Kogyo Co. Ltd.

Kansai

Co-op Kobe Environmental Fund
Dunlop Home Products Ltd.
Hard Rock Café Osaka
Hitachi Kiden Kogyo Co. Ltd.
Hyogo Prefecture Trust Union
Kinki Coca-Cola Bottling Co. Ltd.
Kirin Brewery Co. Ltd. Kobe Sales Head Office
Kobayashi Seiyaku Co. Ltd.
Matsushita Denki Sangyo Co. Ltd.
Mitsui Marine and Fire Insurance Co. Ltd.
National Housing Industry Labor Union
Nestle Japan Labor Union Kobe Branch
Osaka Prefecture Industry Association, Inc.
Roto Seiyaku Co. Ltd.
Sanyo Electric Co. Ltd.
Sapporo Brewery Ltd. Kobe Branch
Sumito Gomu Kogyo Co. Ltd.
Sumitomo Bank Co. Ltd.
Sumitomo Life Insurance Mutual Company
Sumitomo Marine and Fire Insurance Co. Ltd.
Sunstar Co. Ltd.
Torimitsu Co. Ltd.
Yasuda Fire and Marine Insurance Co. Ltd.

Sendai

Asahi Beer Co. Ltd. Tohoku Region Head Office
Kabushikigaisha Maikaru Tohoku
Kabushikigaisha Tokin
Kirin Brewery Co. Ltd. Sendai Factory
Osaka Community Zaidan (TOYO Environmental Conservation Foundation)

Sendai Coca-Cola Bottling
Tohoku Denryoku Kabushikigaisha, Shiogama Eigyosho

Kagoshima

Alico Japan Kagoshima Central Agency
Faculty of Fisheries, of Kagoshima University
Funatsu Onsen Company
Hokusatsu Tobiuo-Juku
Kagoshima Prefecture
Kagoshima Seakayak Club
Kagoshima Women's Junior College
Kinkou Bay Integrated Operational Association for Future
Landart Co. Ltd.
Southern Kyushu Area Laboratory, Kagoshima Women's Junior College

Okinawa

Sponsors

Motor Boat Racing Association's Charity Support Fund (MoTaBoTo KyouZou ShikouSha Kyougikai Josei Jigyou)
Japan National Parks Foundation
Bank of the Ryukyus
Okinawa Bank Furusato Fund

Support

Maeda Point Diver's House
SeaWeeds Dive Shop
Yomitan Village Government
Onna Village Government
Okinawa Prefecture Culture & Environment Department
Okinawa Prefecture Peoples Summit Support Committee
Okinawa Prefecture Social Welfare Community Association
11th Regional Maritime Safety Agency Okinawa (MSA)
Okinawa Tourist & Convention Bureau
Japan National Parks Foundation
Ocean & Coastal Environmental Beatification & Protection Foundation
Okinawa Diving Safety Council
PADI Japan
MCCS Scuba (U.S. Marine Corps Community Services)

Sponsors for Poster & Report

Asahi Beer Co. Ltd. Okinawa
Orion Beer Brewing Co.
Kirin Beer Co. Ltd. Okinawa
Okinawa Coca-Cola Bottling Co. Ltd.
PEPSI Bottling Co. Okinawa
A & W All American Food Okinawa
San Ei Department Stores Okinawa
Jimmy's Bakeries
AEON Group–JUSCO
Okinawa Electric Power Company
Kanehide Group
Okinawa Bank
Japan Trans-Ocean Airlines (JTA)
Okinawa Kaiho Bank
Okinawa Alcoholic Beverage Brewers Association
Bank of the Ryukyus
Family Mart
Ryuseki (Ryukyu Oil)
Hot Spar
Okinawa Hotel & Ryokan Quality Association
Yomitan MonoGatary Restaurant & Pub
SAM'S Restaurant Group (Great Eastern)
Coconut Moon Beach Bar & Live Music Spot
Marine House SEA SIR
Creative Design Production PROJECT CORE
ajima inc. http://www.rinken.gr.jp/
Okinawa Diving Safety Council
PADI Japan
Kadena Marina 18th Services Squadron
KOBUNDO Printing
MakeMan–Power Center NewMan
Yanase Okinawa
Ryukyu Village
"NATUREWORKS" The Eco Professionals

Lithuania

Joint Stock Company "Smiltyne's Ferry"
Joint Stock Company "Spectrausport"
Klaipeda Municipality
Klaipeda Vytaytas Didysis Gymnasium
Magazine Klaipeda
Palanga Municipality
School Club "Baltijos Alus" (The Baltic Eye)

Malaysia

Le Village Resort
The Body Shop

Mexico

Agua Solar
Capitania de Puerto
Coca-Cola
Cocina Express
Construcciones Dinamicas SA DE CV
Grupo ACIR
H. Ayuntamiento
Hotel Paraiso del Desierto
Importadora Numeros
JJ's Cantina
TECATE
Restaurant Costa Brava

Restaurant Lili's
Restaurant Mr. Amigo
Restaurant Old Port Galey
Restaurant Playa Bonita
Sria. De Turismo

Nigeria

Principal Sponsors

Akwa Ibom State Ministry of Environment
Federal Radio Corporation of Nigeria (FECN)
Lagos State Ministry of Environment & Physical Planning
Lagos State Waste Management Development Corporation
Lagos State Waterfront & Tourism Development Corporation
News Agency of Nigeria (NAN)
Nigeria Institute of Oceanography & Marine Research (NIOMR)
Radio Lagos (EKO FM)
Rivers State Tourism Board
Rivers State Water Research Development Centre

Sponsors

Biks Ventures Limited
Roalad Printers Nigeria Limited
Wonder Foods Nigeria Limited

Volunteer groups

Boy Scout Movement
Clean up Clubs (in schools)
Lagos State University Students Forum for Environment & Development
Man O' War Association
National Association for Environmental Education Students, Port Harcourt
Nigerian Red Cross Society
Oke-Oja Youth Development Association, Lagos
Baptist Academy Students
Akpakib Oro Student Association University of Uyo (Akwa Ibom State)

Norway

The International School of Stavanger

Palau

NECO Marine Dive Shop
USA Seabee Civic Action
Shell Palau

Panama

Pascual Hermanos, S.A.
Franquicias Panameñas, S.A.
Industries Lácteas, S.A.
Refrescos Nacionales, S.A.
Produción Panameña de Hielo, S.A.
SEGURICENTRO
SEMM
IPAT
Empanadas Panapatty
Polymer
Nestlé Panamá, S.A.
SUGABEL
Alimentos del Istmo, S.A.
Pepsi-Cola
Riva Smith
COSMARK Panamá Viejo
COOP.S.A.C.A.
Felipe Motta, S.A.

Peru

Principal Sponsor

Marina de Guerra del Perú

Other Sponsors

Ministerio de Educación
CTAR – Callao
Policía Nacional del Perú– División de Proyección Social
ECOPLAYAS
Municipalidad de Miraflores
PETROPERU
Refinería La Pampilla REPSOL – YPF
ALICORP
CITAM–Ucayali

Saudi Arabia

BAe Alternative Dive Club
BAe Beach
Sharky Dive Center
Dhahran International Hotel

St Kitts & Nevis

Nevis Historical and Conservation Society
Ballahoo Restaurant
Bird Rock Beach Hotel
Cyril Adams (Addy's Tours)
Delisle Walwyn
Frigate Beach Resort
Island Purified Water
Jack Tar Village Resort
Marshall's Restaurant
OTI
Shell Antilles & Guianas Ltd
Rams Supermarket
St Kitts Bottling Company
Turtle Beach Bar & Grill

Tonga

Australian High Commission
New Zealand High Commission
U.S. Peace Corps
Tonga National Youth Congress

United Arab Emirates

Emirates Bank Group

United Kingdom

Crown Estate
Transco Grassroots Environmental Award

APPENDIX 2: International Raw Data Summary

DEBRIS ITEM	Argentina	Barbados	Belize	Brazil	British V.I.	Canada	Cayman Islands	Colombia	Costa Rica	Dominica	Dominican Republic	Ecuador
PLASTIC												
food bags/wrappers	2,994	624	2,024	167	39	447	271	2,867	0	3,533	61	0
salt bag	103	3	177	25	0	10	19	94	0	80	2	0
trash bags	3,167	111	467	69	1	92	57	1,757	0	835	4	0
other plastic bags	861	295	1,344	64	10	105	55	968	15	2,449	90	0
beverage bottles	3,395	250	852	139	11	177	372	259	0	1,353	11	0
bleach, cleaner bottles	338	15	126	46	2	24	17	107	0	3,401	3	0
milk/water gallon jugs	341	22	275	58	19	50	41	375	0	2,806	30	0
oil, lube bottles	454	37	222	37	0	62	31	193	0	1,997	4	0
other plastic bottles	1,129	78	428	52	2	48	182	204	3	964	10	0
buckets	193	10	27	10	0	11	2	94	0	198	4	0
caps, lids	2,374	315	2,318	224	10	646	575	1,095	2	777	85	0
cigarette butts	3,500	64	486	204	7	1,151	433	1,499	0	942	494	0
cigarette lighters	235	10	100	13	0	17	19	117	5	133	10	0
cups, utensils	560	290	1,300	182	20	224	245	2,569	16	1,375	44	0
diapers	355	16	219	0	3	33	6	129	0	321	19	0
fishing line	149	8	19	1	5	42	87	54	20	230	155	0
fishing lures, floats	66	1	8	8	0	28	16	14	0	84	2	0
fishing nets	85	4	37	19	1	49	7	67	1	243	5	0
hard hats	51	0	18	75	0	0	0	48	0	29	1	0
light sticks	27	10	229	2	0	1	30	39	0	83	3	0
plastic pieces	3,180	328	2,327	354	19	839	169	1,025	0	5,325	6	0
pipe thread protector	23	3	30	11	1	12	0	91	0	17	3	0
rope	477	202	60	128	1	1,051	44	265	1	440	21	0
sheeting longer than 2 ft	52	1	28	21	0	7	7	82	3	29	1	0
sheeting 2 ft or shorter	62	1	4	22	0	25	7	90	5	56	1	0
six-pack holders	441	5	30	56	1	19	20	283	4	29	101	0
strapping bands	180	8	14	16	1	178	20	54	0	66	0	0
straws	1,217	134	1,918	2	8	371	189	3,086	0	315	0	0
syringes	77	13	34	15	0	7	63	50	0	32	5	0
tampon applicators	352	0	10	2	0	189	1	147	0	162	1	0
toys	254	2	53	75	0	18	7	105	0	431	1	0
vegetable sacks	31	0	26	29	0	12	5	130	0	40	5	0
"write protection" rings	84	1	7	18	1	26	0	131	0	16	1	0
other plastic items	992	16	582	205	19	437	18	679	2	3,205	14	23,402
FOAMED PLASTIC												
buoys	86	35	32	4	1	105	8	68	0	189	1	0
cups	111	59	748	164	18	192	160	562	1	1,545	163	0
egg cartons	71	1	38	1	0	0	0	73	0	365	5	0
fast food containers	230	64	249	22	9	57	93	238	0	3,281	102	0
meat trays	199	4	46	0	1	28	8	121	0	327	2	0
packaging material	398	25	179	63	0	111	22	170	0	414	4	0
foamed plastic pieces	1,731	85	1,268	237	13	1,890	247	849	0	3,542	15	0
plates	58	33	272	0	4	29	61	313	3	273	39	0
other foamed plastic items	559	7	214	5	0	56	24	272	11	948	1	3,766

GLASS												
beverage bottles	1,290	505	442	261	54	369	406	651	5	1,051	202	0
food jars	152	10	31	5	0	36	19	108	0	457	14	0
other glass bottles/jars	385	13	83	36	104	39	60	246	0	761	20	0
fluorescent light tubes	37	1	20	1	0	1	11	23	0	12	1	0
light bulbs	143	1	50	1	0	1	24	68	0	34	1	0
glass pieces	3,426	77	847	68	49	2,402	211	1,883	0	2,058	17	0
other glass items	265	3	84	85	1	49	22	102	1	1,346	4	4,735
RUBBER												
balloons	69	2	65	7	1	34	8	81	0	109	3	0
condoms	276	4	49	13	0	61	12	61	0	520	21	0
gloves	421	25	140	23	0	17	3	94	0	730	3	0
tires	267	18	97	18	1	29	5	109	0	468	5	0
other rubber items	583	17	162	151	9	790	41	228	0	595	1	760
METAL												
bottle caps	905	115	6,422	33	0	323	293	709	0	4,345	41	0
aerosol cans	406	5	69	16	2	33	13	61	0	414	12	0
beverage cans	929	32	322	164	83	183	210	169	0	610	79	0
food cans	99	43	122	38	3	18	19	120	0	862	23	0
other cans	137	14	84	21	0	6	14	58	0	198	1	0
crab/lobster traps	13	1	0	0	0	9	0	21	0	99	1	0
55 gallon drum - rusty	113	4	18	0	0	5	4	108	0	89	2	0
55 gallon drum - new	14	1	2	0	0	0	0	40	0	20	0	0
metal pieces	1,518	38	275	48	19	354	2	202	0	2,463	8	0
pull tabs	359	1	14	31	0	85	1	412	0	25	1	0
wire	520	21	129	8	5	92	23	126	0	606	0	0
other metal items	202	31	278	24	0	202	10	84	1	1,763	1	3,116
PAPER												
paper bags	824	21	213	150	5	38	60	621	0	293	44	0
cardboard	709	52	145	22	10	137	28	335	0	679	6	0
cartons	701	81	136	12	2	66	24	373	0	272	111	0
cups	141	13	302	17	1	380	93	289	0	351	9	0
newspapers/magazines	414	41	112	19	0	48	9	401	0	144	59	0
paper pieces	1,925	144	460	73	23	564	133	856	0	947	0	0
plates	72	17	111	104	1	24	45	169	0	204	5	0
other paper items	662	60	118	15	2	99	10	295	1	130	19	4,553
WOOD												
crab/lobster traps	44	0	17	0	0	8	0	41	0	36	2	0
crates	157	2	3	18	0	2	1	75	0	87	1	0
pallets	568	5	100	22	0	2	6	604	0	244	3	0
other wood items	332	70	277	35	4	36	0	159	0	306	19	5,472
lumber pieces	1,659	86	895	88	3	145	61	1,186	0	803	2	0
CLOTH												
clothing/pieces	965	66	559	55	18	255	70	640	4	4,316	58	784
TOTAL BY ZONE	52,944	4,830	32,098	4,527	627	15,818	5,589	33,241	104	71,327	2,328	46,588

APPENDIX 2: International Raw Data Summary

DEBRIS ITEM	Egypt	Greece	Grenada	Hong Kong	Indonesia	Ireland	Jamaica	Japan	Kenya	Kuwait	Lithuania	Malaysia
PLASTIC												
food bags/wrappers	1,044	2,365	1,657	10	69	68	2,571	9,104	5,540	45	2,546	274
salt bag	0	0	40	0	0	0	64	7	887	0	507	19
trash bags	18	1,453	135	0	0	0	900	1,404	3,174	4	83	21
other plastic bags	135	0	511	0	6	31	1,063	9,188	4,371	9	824	48
beverage bottles	1,295	2,275	2,400	40	22	0	11,008	9,891	2,986	44	1,624	110
bleach, cleaner bottles	10	0	420	0	0	0	495	717	767	0	145	7
milk/water gallon jugs	68	0	37	4	0	0	542	480	1,569	0	322	209
oil, lube bottles	21	0	309	15	0	0	579	298	757	1	60	6
other plastic bottles	127	0	496	10	16	0	1,596	1,426	3,008	7	139	74
buckets	11	266	23	0	0	0	157	213	711	2	9	9
caps, lids	1,257	2,317	1,408	0	0	0	2,481	10,166	2,895	37	345	50
cigarette butts	8,607	0	175	0	8	100	232	50,021	3,759	46	4,947	152
cigarette lighters	14	0	18	5	0	0	379	1,973	3,759	2	0	32
cups, utensils	89	823	401	0	9	0	1,654	1,437	1,823	16	0	29
diapers	4	8	148	0	0	0	241	43	291	1	0	25
fishing line	96	206	133	0	4	0	141	741	851	7	30	11
fishing lures, floats	42	0	74	12	1	0	63	1,064	2,731	2	0	5
fishing nets	0	45	133	15	3	0	140	420	649	1	364	6
hard hats	0	0	21	0	0	0	16	8	423	0	112	0
light sticks	156	0	251	0	0	0	93	40	3,759	0	320	4
plastic pieces	322	0	502	0	0	0	2,847	45,136	8,273	36	575	34
pipe thread protector	300	0	17	0	0	0	32	10	231	5	357	4
rope	128	248	255	0	7	0	391	5,143	2,697	15	115	28
sheeting longer than 2 ft	69	8	38	0	0	0	28	1,531	214	2	120	6
sheeting 2 ft or shorter	265	396	60	0	8	0	78	9,778	388	2	0	3
six-pack holders	0	0	2	0	0	0	35	16	147	0	0	0
strapping bands	69	259	41	0	4	0	100	732	431	0	841	0
straws	176	2,136	493	0	0	0	581	2,102	4,422	24	862	75
syringes	8	28	5	0	0	0	45	74	471	0	322	10
tampon applicators	5	0	7	0	0	8	8	18	302	0	1	0
toys	1	165	89	0	0	0	238	833	580	10	99	9
vegetable sacks	82	0	43	0	0	0	51	117	1,586	6	906	11
"write protection" rings	6	920	1	0	0	0	40	0	237	1	48	1
other plastic items	60	8	100	0	3	0	325	23,643	2,282	29	694	7
FOAMED PLASTIC												
buoys	43	0	12	0	0	0	159	323	796	2	42	27
cups	91	0	600	13	0	0	803	733	973	0	2	187
egg cartons	25	2	70	0	0	0	44	185	328	0	51	12
fast food containers	61	13	775	7	2	0	795	2,406	1,233	6	116	42
meat trays	20	0	63	3	0	0	104	3,801	209	0	52	18
packaging material	302	8	140	0	2	0	396	489	1,564	18	158	108
foamed plastic pieces	240	4	254	0	0	0	1,294	53,179	3,341	12	709	161
plates	59	12	501	0	0	0	456	328	978	2	26	6
other foamed plastic items	0	0	199	0	0	0	267	987	2,254	9	475	51
GLASS												

foamed plastic pieces	[illegible]	[illegible]	[illegible]	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
plates	59	12	501	0	0	0	456	328	978	2	26	6
other foamed plastic items	0	0	199	0	0	0	267	987	2,254	9	475	51
GLASS												
beverage bottles	580	492	705	0	10	14	1,124	4,921	2,345	24	855	551
food jars	22	8	67	5	2	0	295	636	804	0	11	9
other glass bottles/jars	78	10	311	0	3	0	587	522	1,256	3	912	103
fluorescent light tubes	0	4	42	0	0	0	39	41	548	0	0	10
light bulbs	26	35	20	0	0	0	80	262	521	0	90	10
glass pieces	225	916	500	0	0	0	760	12,822	1,654	13	0	24
other glass items	39	341	130	0	0	1	105	1,070	660	10	1,317	2
RUBBER												
balloons	0	12	78	0	0	0	43	174	604	1	135	30
condoms	0	8	205	0	0	5	262	35	859	0	0	3
gloves	1	47	20	5	0	0	50	168	415	4	252	36
tires	8	126	211	0	4	0	208	205	1,567	6	27	15
other rubber items	71	112	132	0	11	0	881	2,285	6,209	7	271	42
METAL												
bottle caps	276	674	600	0	1	0	957	2,313	2,307	0	0	35
aerosol cans	10	25	100	0	0	0	425	1,243	310	6	99	11
beverage cans	401	2,008	412	0	35	100	261	10,771	2,221	27	780	56
food cans	24	314	273	0	2	0	363	448	638	7	336	16
other cans	13	36	87	0	1	0	128	534	406	4	249	22
crab/lobster traps	0	0	6	0	0	0	29	18	200	1	1,276	6
55 gallon drum - rusty	12	0	61	0	0	0	137	29	1,336	1	0	1
55 gallon drum - new	0	0	9	0	0	0	61	1	213	0	0	0
metal pieces	246	257	147	0	3	0	316	2,350	980	6	34	52
pull tabs	1	0	3	0	0	0	55	592	184	0	1,012	0
wire	76	134	49	0	2	0	207	701	797	2	51	6
other metal items	109	228	70	0	3	0	189	3,646	406	4	124	30
PAPER												
paper bags	228	1,154	781	0	0	0	335	389	2,536	1	603	68
cardboard	104	68	338	0	0	0	376	450	646	12	12	50
cartons	366	207	264	0	0	0	1,049	2,537	1,142	17	200	12
cups	3	28	300	4	0	0	531	539	817	3	766	273
newspapers/magazines	98	445	75	5	0	0	277	653	1,905	3	500	102
paper pieces	804	156	300	0	0	0	357	5,100	2,636	37	480	63
plates	40	28	419	0	0	0	212	206	490	1	215	22
other paper items	287	213	121	0	2	0	96	549	565	24	1,804	24
WOOD												
crab/lobster traps	0	0	40	0	0	0	20	182	334	0	6	0
crates	10	100	44	0	0	0	41	185	175	0	18	0
pallets	47	27	35	0	0	0	95	2,206	463	0	377	11
other wood items	1,756	1,076	286	0	4	0	226	5,902	3,427	0	537	76
lumber pieces	598	46	350	0	1	1	500	454	887	22	131	18
CLOTH												
clothing/pieces	125	185	601	0	12	0	692	1,227	4,237	6	0	26
TOTAL BY ZONE	22,010	23,485	21,249	153	260	328	45,901	316,571	126,347	655	32,428	3,706

APPENDIX 2: International Raw Data Summary

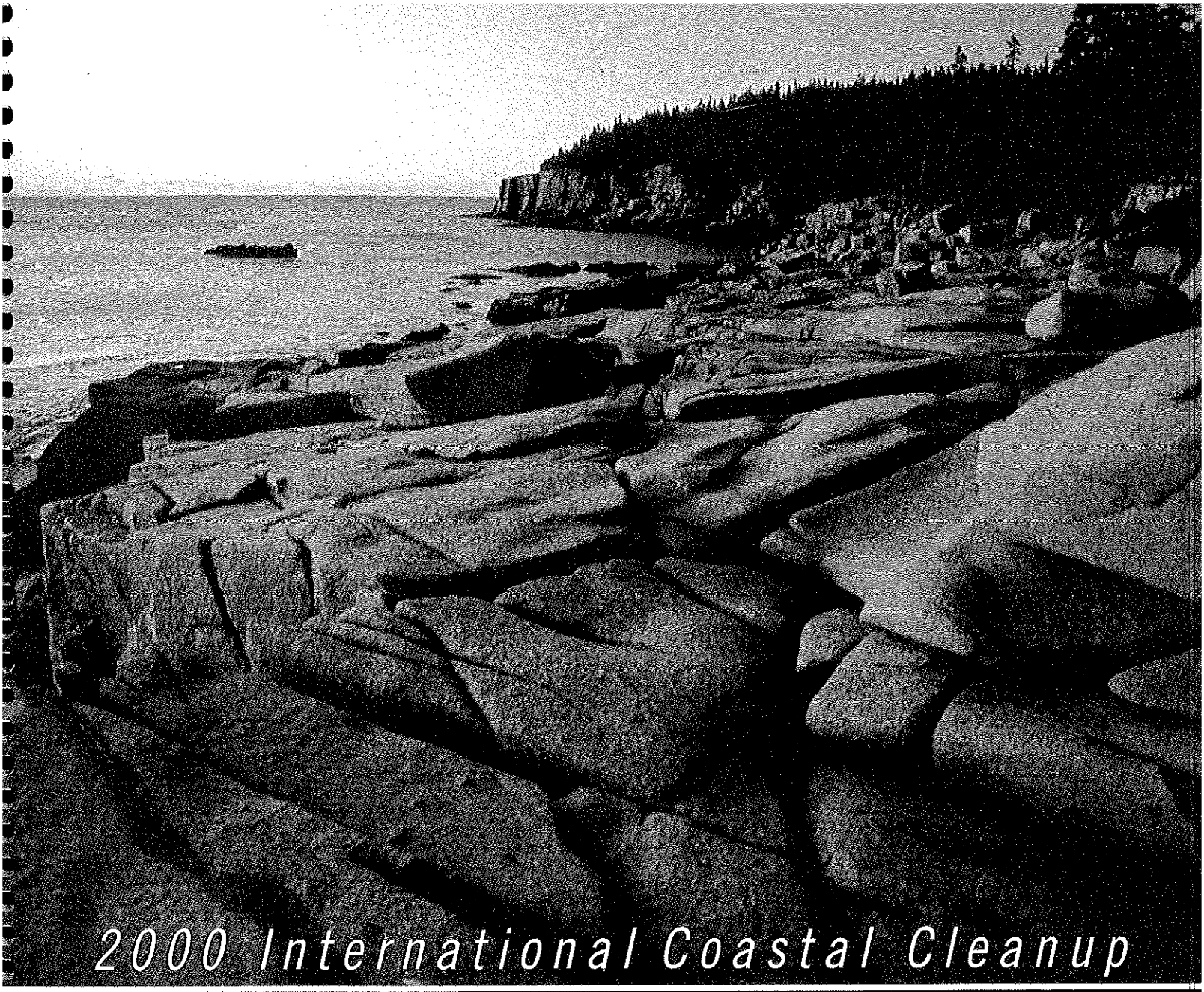
DEBRIS ITEM	Mexico	Micronesia	Netherlands Antilles	New Zealand	Nigeria	Norway	Palau	Peru	Philippines	Poland	Saudi Arabia	Singapore
PLASTIC												
food bags/wrappers	2,422	238	735	659	1,616	178	56	6,911	618,744	100	156	10
salt bag	96	0	3	0	70	0	0	1,110	29,513	0	1	0
trash bags	1,345	53	537	3	1,634	10	0	23,050	121,515	0	67	20
other plastic bags	1,040	148	556	25	13,329	32	4	4,989	113,835	10	247	0
beverage bottles	3,368	108	395	87	66	12	14	26,236	71,612	200	208	50
bleach, cleaner bottles	1,314	7	87	26	94	0	3	3,309	32,784	0	19	10
milk/water gallon jugs	1,064	4	134	31	31	14	2	1,476	33,947	10	26	10
oil, lube bottles	1,681	5	828	10	105	2	3	3,774	25,333	21	1	5
other plastic bottles	842	22	924	73	141	10	37	5,077	47,797	18	33	0
buckets	266	7	811	1	19	6	0	1,206	10,620	3	4	0
caps, lids	1,994	272	2,729	722	4,344	132	69	15,186	65,029	21	32	70
cigarette butts	3,176	1,595	1,122	121	8,728	573	3	7,764	128,685	100	69	250
cigarette lighters	138	7	279	43	105	105	13	800	22,167	3	6	15
cups, utensils	1,812	145	1,123	31	112	15	25	5,239	54,318	0	136	20
diapers	434	1	27	3	1	3	0	1,719	35,477	6	13	0
fishing line	314	8	226	21	84	52	0	880	28,854	100	128	10
fishing lures, floats	58	53	23	0	166	0	9	624	21,684	5	49	20
fishing nets	167	14	145	1	109	8	8	1,297	38,167	0	31	2
hard hats	2	2	0	0	32	0	0	376	10,409	0	0	0
light sticks	181	0	161	1	123	4	0	1,017	87,468	0	7	0
plastic pieces	2,680	418	10,655	364	1,463	483	90	4,783	52,568	42	33	25
pipe thread protector	138	0	17	5	29	1	0	825	3,913	2	25	0
rope	901	151	960	179	127	449	9	3,206	61,564	2	24	100
sheeting longer than 2 ft	59	31	4	7	208	4	2	760	5,339	0	20	0
sheeting 2 ft or shorter	29	17	1,021	63	76	40	0	539	6,358	5	11	0
six-pack holders	904	121	292	34	7	1	7	4,008	4,725	0	3	0
strapping bands	119	17	37	113	334	44	6	853	11,544	4	4	0
straws	2,752	55	1,178	274	184	95	16	4,044	90,048	0	0	30
syringes	163	2	1	31	63	0	3	1,109	6,281	0	1	0
tampon applicators	401	0	2	3	1	0	0	731	2,314	5	0	0
toys	459	8	25	10	42	6	11	3,335	33,092	0	4	0
vegetable sacks	80	0	14	0	67	4	0	1,470	24,181	0	4	0
"write protection" rings	142	2	1	0	6	3	0	798	2,520	0	0	0
other plastic items	972	56	416	398	739	35	0	5,536	152,315	41	2	0
FOAMED PLASTIC												
buoys	314	75	78	5	221	0	27	1,174	18,182	11	0	0
cups	899	301	233	40	64	11	37	3,073	53,244	41	25	0
egg cartons	66	1	14	0	62	0	0	1,460	16,480	20	1	0
fast food containers	283	72	580	6	587	13	10	1,453	48,487	10	9	200
meat trays	113	0	12	11	99	1	2	741	8,897	0	0	0
packaging material	124	40	618	11	396	43	26	1,190	36,254	0	5	0
foamed plastic pieces	1,040	343	3,626	232	1,466	145	210	3,459	40,168	2	4	300
plates	666	56	83	0	201	0	22	2,866	34,685	0	274	0

GLASS												
beverage bottles	2,524	124	2,502	113	2,032	5	22	5,560	71,715	115	182	45
food jars	119	4	299	3	291	2	3	1,160	24,005	11	17	0
other glass bottles/jars	786	0	228	35	239	0	0	2,964	38,702	10	29	0
fluorescent light tubes	122	2	3	0	19	0	1	550	9,509	0	0	0
light bulbs	137	0	56	3	27	7	0	958	10,964	4	0	0
glass pieces	5,305	344	1,377	28	1,628	38	60	3,461	38,375	100	10	0
other glass items	51	13	21	41	24	2	0	544	24,808	0	3	2
RUBBER												
balloons	84	22	22	16	192	29	0	1,249	10,243	11	0	0
condoms	131	0	19	4	947	2	0	1,889	4,666	5	0	0
gloves	74	13	35	1	213	0	0	917	6,647	20	0	0
tires	85	1	66	6	76	0	0	1,251	16,178	7	1	0
other rubber items	109	104	346	33	320	5	23	1,060	41,589	0	4	3
METAL												
bottle caps	2,080	429	203	24	17,929	39	7	3,784	88,073	58	25	30
aerosol cans	154	0	100	0	202	1	0	1,146	10,001	2	4	0
beverage cans	677	538	889	31	397	14	21	3,113	42,640	56	256	50
food cans	343	6	214	2	324	5	1	1,140	56,465	12	6	0
other cans	220	5	103	0	273	0	0	1,184	16,531	10	23	0
crab/lobster traps	72	4	0	0	2	0	0	470	11,020	0	1	0
55 gallon drum - rusty	27	0	4	0	96	2	0	446	7,385	0	0	0
55 gallon drum - new	9	0	0	0	29	0	0	109	1,755	0	0	0
metal pieces	242	65	315	0	1,381	5	0	3,484	11,607	91	3	0
pull tabs	236	223	19	8	55	7	10	1,373	2,960	0	32	0
wire	260	19	71	1	291	14	0	2,438	11,270	16	9	0
other metal items	104	104	230	50	396	25	1	649	24,913	15	33	1
PAPER												
paper bags	322	19	111	2	318	6	2	9,600	34,074	73	6	0
cardboard	206	22	51	77	306	11	0	3,367	27,280	15	4	0
cartons	351	9	113	0	349	16	0	4,944	46,433	16	7	0
cups	116	80	136	3	254	5	0	2,562	23,755	86	16	0
newspapers/magazines	180	3	110	2	158	17	0	5,442	32,976	15	1	0
paper pieces	1,369"	198	277	27	18,246	84	0	8,748	66,851	100	56	0
plates	116	18	54	0	350	0	0	2,012	22,197	0	5	0
other paper items	178	53	349	10	1,255	13	0	1,053	31,611	61	0	5
WOOD												
crab/lobster traps	55	0	20	0	48	0	0	347	6,650	0	0	0
crates	138	0	2	0	85	0	0	1,143	5,607	0	0	0
pallets	1,173	4	20	0	79	0	0	4,008	4,893	1	0	2
other wood items	534	13	368	9	2,480	7	0	9,420	15,553	49	0	2
lumber pieces	818	79	1,557	0	245	76	0	6,946	15,255	39	0	0
CLOTH												
clothing/pieces	488	71	543	16	393	24	3	4,854	14,260	27	39	10
TOTAL BY ZONE	55,119	7,103	41,891	4,212	89,321	2,998	878	266,553	3,310,087	1,807	2,454	1,297

APPENDIX 2: International Raw Data Summary

DEBRIS ITEM	South Africa	St Kitts & Nevis	Sultanate Of Oman	Tanzania	Thailand	Tonga	United Kingdom	United States	Totals
PLASTIC									
food bags/wrappers	44,242	777	1,086	154	97	1,305	14,567	284,287	1,016,660
salt bag	317	25	6	3	1	631	0	3,233	37,046
trash bags	0	149	31	57	27	1,124	0	56,551	219,925
other plastic bags	5,160	501	206	28	57	732	3,821	69,757	236,919
beverage bottles	14,436	2,087	387	22	162	1,334	7,119	150,129	316,546
bleach, cleaner bottles	254	321	24	1	12	562	600	6,929	52,996
milk/water gallon jugs	17,647	371	226	7	0	705	0	23,168	86,121
oil, lube bottles	1,726	517	37	3	11	381	266	11,725	51,517
other plastic bottles	13,517	623	79	37	10	1,645	0	42,719	123,603
buckets	63	100	11	6	12	469	0	7,283	22,837
caps, lids	50,993	1,430	1,033	132	57	1,399	11,177	255,253	441,451
cigarette butts	95,423	1,081	4,500	243	104	1,837	10,222	1,027,303	1,369,726
cigarette lighters	855	18	175	1	5	606	530	19,756	52,468
cups, utensils	3,081	1,776	286	27	22	774	2,534	95,588	180,170
diapers	121	57	2	2	2	1,365	83	7,562	48,740
fishing line	5,577	205	193	11	23	659	3,543	30,521	74,399
fishing lures, floats	4,142	71	23	2	40	196	0	14,942	46,328
fishing nets	1,308	273	389	9	25	393	0	8,606	53,246
hard hats	62	39	6	0	8	67	0	754	12,559
light sticks	146	42	10	0	0	33	0	11,119	105,359
plastic pieces	59,921	962	291	2	0	754	34,783	337,384	578,998
pipe thread protector	0	14	27	0	0	46	14	4,150	10,353
rope	6,941	375	398	12	57	865	19,819	72,856	180,712
sheeting longer than 2 ft	55	20	9	0	2	304	0	3,665	12,736
sheeting 2 ft or shorter	489	12	19	0	0	388	0	7,048	27,366
six-pack holders	25	10	5	0	0	418	0	15,857	27,606
strapping bands	2,757	299	140	3	4	444	2,187	19,019	40,942
straws	12,666	435	186	89	60	1,168	4,427	161,639	297,457
syringes	204	11	33	3	1	226	102	3,226	12,719
tampon applicators	523	9	18	0	0	85	336	10,986	16,627
toys	1,296	28	17	1	2	745	943	21,245	64,239
vegetable sacks	757	29	15	2	9	705	368	7,099	37,884
"write protection" rings	0	12	20	0	2	202	0	6,648	11,895
other plastic items	79,125	287	215	8	3	514	15,513	84,032	396,929
FOAMED PLASTIC									
buoys	778	137	7	2	6	500	281	15,153	38,884
cups	7,415	385	24	10	2	1,084	1,000	107,702	182,715
egg cartons	945	73	24	0	0	354	0	4,373	25,144
fast food containers	98,895	233	33	22	24	253	962	32,312	194,245
meat trays	762	79	12	1	0	44	0	9,338	25,118
packaging material	8,364	475	95	24	19	706	1,975	56,930	111,866
foamed plastic pieces	13,340	462	347	3	0	543	16,365	268,945	420,071
plates	11,744	225	29	5	0	801	0	25,021	80,131
other foamed plastic items	4,038	99	347	5	10	459	1,697	29,173	117,800
GLASS									

foamed plastic pieces	13,540	402	347	5	0	345	16,565	208,948	420,691
plates	11,744	225	29	5	0	801	0	25,021	80,131
other foamed plastic items	4,038	99	347	5	10	459	1,697	29,173	117,800
GLASS									
beverage bottles	8,608	654	315	341	102	1,139	1,168	177,039	291,162
food jars	341	71	28	3	10	589	0	12,382	42,029
other glass bottles/jars	13,940	192	53	7	100	525	0	20,924	84,266
fluorescent light tubes	268	11	4	0	2	279	0	1,774	13,335
light bulbs	1,673	9	21	2	4	172	107	3,879	19,390
glass pieces	27,982	1,336	2,143	44	40	1,413	6,481	209,531	327,648
other glass items	4,750	7	87	16	0	727	808	13,375	55,651
RUBBER									
balloons	109	8	3	5	0	487	733	40,655	55,324
condoms	1,262	52	2	3	0	493	157	8,428	20,454
gloves	2,515	8	3	2	0	502	379	16,690	30,473
tires	524	36	15	2	4	480	127	9,030	31,283
other rubber items	529	374	94	12	0	555	2,250	37,547	98,315
METAL									
bottle caps	1,230	1,173	32	88	123	1,379	1,578	130,401	269,034
aerosol cans	16,751	48	59	5	21	607	352	10,176	42,889
beverage cans	13,106	473	195	145	7	1,069	4,381	184,294	272,205
food cans	859	126	20	27	14	1,268	220	13,633	78,453
other cans	1,206	26	29	3	5	557	0	8,964	31,152
crab/lobster traps	23	16	4	7	0	440	0	2,248	15,987
55 gallon drum - rusty	226	15	40	3	3	694	22	2,466	13,349
55 gallon drum - new	28	12	0	0	3	262	10	384	2,962
metal pieces	59	219	377	3	0	745	1,616	38,182	67,712
pull tabs	104	9	1,935	0	10	335	0	27,069	37,161
wire	906	64	117	13	2	766	524	14,814	35,150
other metal items	1,202	151	180	11	1	587	2,364	58,850	100,388
PAPER									
paper bags	180	72	197	25	3	647	381	40,093	94,495
cardboard	858	169	61	0	5	850	1,493	28,653	67,607
cartons	154	61	82	17	4	586	456	20,485	81,655
cups	280	54	135	12	0	1,062	129	43,794	77,339
newspapers/magazines	398	21	133	5	3	686	420	23,664	69,544
paper pieces	6,101	517	3,854	40	5	1,227	4,001	219,256	346,015
plates	315	68	28	11	3	925	21	16,365	44,873
other paper items	811	237	158	8	0	585	694	47,789	94,519
WOOD									
crab/lobster traps	0	0	15	2	2	209	22	1,781	9,881
crates	3	5	30	0	0	386	0	1,619	9,937
pallets	437	65	66	0	0	410	60	4,526	20,559
other wood items	1,431	242	182	7	12	392	5,691	32,558	88,950
lumber pieces	339	399	135	10	20	955	0	70,503	105,312
CLOTH									
clothing/pieces	709	231	356	30	12	1,171	5,379	49,470	92,987
TOTAL BY ZONE	680,327	22,365	22,209	1,846	1,396	53,986	197,258	5,074,277	10,700,498

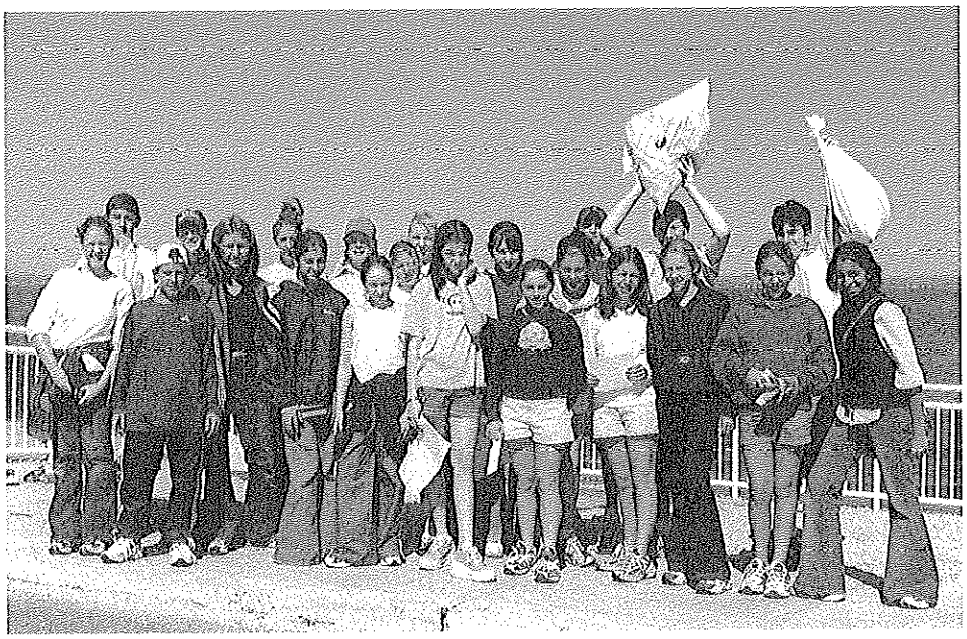


2000 International Coastal Cleanup

U.S. Results

The Ocean Conservancy

Formerly the Center for Marine Conservation



2000 International Coastal Cleanup

U.S. Results

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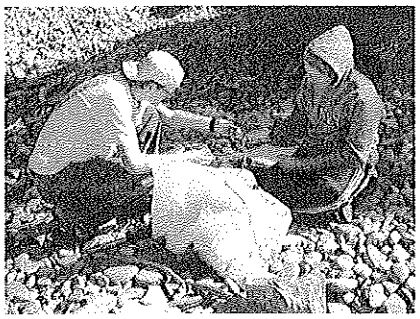


Overview

The 2000 Cleanup

Beyond the Cleanup

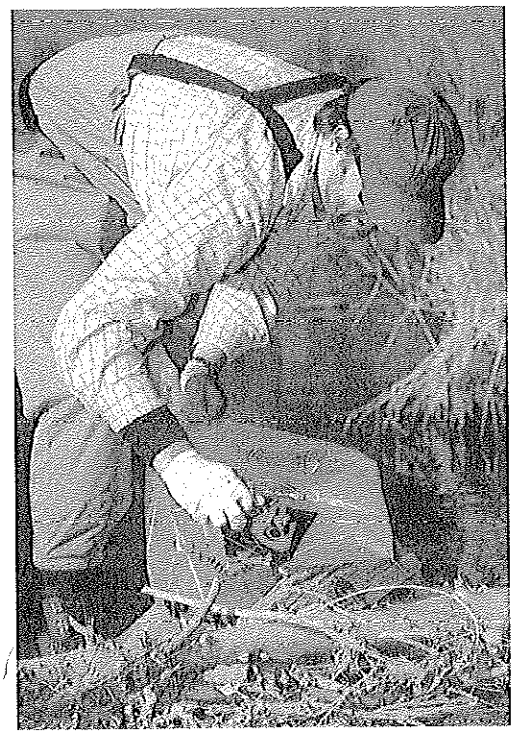
Appendices

Overview

The Ocean Conservancy has been working for nearly 30 years to ensure that our oceans provide a healthy environment for an abundant and diverse population of marine animals. The International Coastal Cleanup began in 1986 as an effort by an Ocean Conservancy employee to retrieve unpleasant debris from the Texas coast. Today, hundreds of thousands of people from all over the world remove trash and litter from their local beaches and waters while recording important data on what they find.

The mission of the International Coastal Cleanup is:

- To remove debris from the shorelines, waterways, and beaches of the world's lakes, rivers, and oceans;
- To collect valuable information on the amount and types of debris;
- To educate people on the issue of marine debris, and
- To use the information collected from the Cleanup to effect positive change—on all levels, from the individual to the international—to reduce marine debris and enhance marine conservation.



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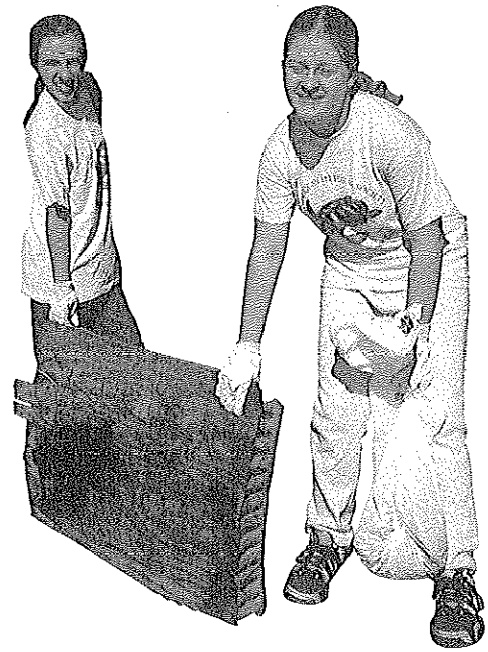
The International Coastal Cleanup is the largest marine pollution cleanup effort currently in existence. The event heightens public awareness about the vast problem of marine debris, but more importantly, it unites citizens from across the United States and many other nations in an attempt to do something about pollution in their communities. The ultimate goal, however, is to eliminate the need for such cleanups by deterring people and industries from polluting our waters in the first place.

Acknowledgments

Our deepest gratitude and sincerest thanks goes to the tens of thousands of enthusiastic individuals who make the International Coastal Cleanup a success every year. Armed with trash bags and data cards, and adorned in everything from gloves to scuba gear, rain jackets to sunscreen, our volunteers go forth on land and in water to retrieve the litter and trash their neighbors have left behind. We salute those volunteers who return to the Cleanup year after year, and your commitment to a cleaner and healthier ocean. For those volunteers who were first-time participants, we extend a heart-felt "thank you" for a job well done.

The International Coastal Cleanup simply would not happen without our state and territory coordinators who spend an immeasurable about of time preparing for the Cleanup—lining up sponsors, volunteers, publicity, and thank-you gifts—and organizing the marine debris data. So many of you go the extra mile to assure a successful and entertaining Cleanup for everyone involved. Thank you for your hard



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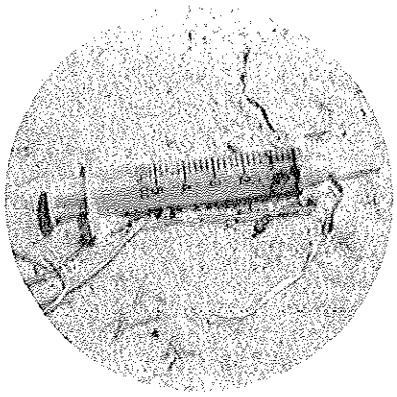
work, your willingness to volunteer your time, and for your dedication to this important cause. (A list of the 2000 U.S. coordinators can be found on page 12.)

Special thanks also goes to all of 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-at-hand. We appreciate your contributions and your commitment to a cleaner marine environment. National sponsors of the 2000 Cleanup appear on page 2 of this report; state and local sponsors are listed beginning on page 27.

The Problem of Marine Debris

Our oceans, lakes, and rivers are an economic livelihood and a recreational escape for people across the United States. Yet, in spite of their importance in our everyday lives, our oceans and waterways are threatened daily by an influx of marine debris.

Marine debris is the term for any manufactured item that ends up as trash in our oceans or waterways. It can be as small as a bottle cap or as large as a lawn chair. It can be found in all the world's oceans, and in the lakes, rivers, and streams that lead to the ocean. Whatever its size, shape,



or composition, trash poses a significant threat to beachgoers, coastal communities, and especially marine ecosystems.

At its most benign, trash detracts from the aesthetic beauty of a waterfront landscape. But marine debris is also a human health and safety hazard. Floating fishing line, rope, and plastic bags can wrap around and damage boat propellers. Hospital needles, syringes, and drug vials lying on shorelines can carry disease, and broken glass and other sharp objects lie in wait for an innocent bare foot.

Marine debris is particularly dangerous and often lethal to marine wildlife. Floating plastic bags deceive sea turtles into thinking they are delectable jellyfish. Seagulls and other shore birds mistakenly swallow cigarette filters instead of food. Fishing lines, abandoned fishing nets, rope and plastic six-pack rings all are known to entangle marine animals, maiming and even killing them.

Marine debris won't disappear by itself. In fact, it will probably get worse. As the human population grows, so will our trash, increasing the probability that it will ultimately end up in our oceans and waterways. In addition, technology continues to make more and more of our goods stronger, more durable and lighter in weight, which means that the debris lasts longer and travels farther.

Sources of Debris

Simply stated, the source of all debris is human activity. People produce waste, and if waste is not handled appropriately it can eventually become marine debris. Areas closest in proximity to large cities of course have greater pollution problems. But once in water, debris can travel, and depending on ocean current patterns, climate and tides can land thousands of miles from its origin.

The Ocean Conservancy classifies debris as either land-based or ocean-based. It can be difficult to pinpoint the origin of many items to one source. If no definitive source can be determined, then items are attributed to general sources.

Ocean-based sources of debris typically include commercial fishing vessels; recreational boats and cruise ships; merchant, military, and research vessels; and offshore petroleum platforms and their associated supply vessels. Debris may be introduced accidentally—such as when a fishing line snaps or boater's hat blows off of his or her head—or

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it could result from illegal and thoughtless dumping practices.

The at-sea disposal of solid waste has been prohibited in most of the world's waters since 1988, when Annex V of the MARPOL Treaty went into effect. MARPOL is an international agreement governing the shipboard disposal of hazardous materials; Annex V covers solid waste. Although some countries have not ratified Annex V, cleanup data in recent years indicates that debris from ocean sources is declining.

Land-based debris enters the water from a source on land, such as recreational beachgoers and fishers; materials manufacturers, processors, and transporters; shore-based solid waste disposal and processing facilities; sewage treatment and combined sewer overflows; inappropriate or illegal dumping; and littering.

Even trash that originates miles from the coast can travel by sewage pipe, storm drain, or other waterway into the ocean. When public wastewater treatment facilities back up during periods of heavy rain, for example, the wastewater is diverted into the nearest natural waterway, dumping tampon applicators, condoms, and other waste into the ocean. Likewise, some storm water systems discharge directly into waterways, not into water treatment facilities. Thus, litter discarded on city streets, sidewalks and yards will likely be carried into the ocean via a storm drain.

The International Coastal Cleanup

15 years ago, about 2,800 Texas residents, irritated by the appearance of debris on their beaches, removed 124 tons of trash from 122 miles of Texas coast, during The Ocean Conservancy's first beach cleanup. Similar efforts in other communities multiplied, and by 1988 the Cleanup had become a national event, with cleanups in every coastal state. Cleanups in Canada and Mexico made the 1989 cleanup an international event.

To date, people in more than 100 countries and all 55 U.S. states and territories have rid their shorelines, oceans, rivers, lakes, and other waterways of tons of marine debris.

Each year, tens of thousands of volunteers across the United States spend three hours on the third Saturday of September combing the beaches for shiny wrappers, discarded cigarette filters, deflated balloons, and other pieces of litter. Year after year, participants express their surprise at the discarded clothing, junked appliances, and other unusual items they find on the beach.

Some adventurous volunteers dive for debris under the water as well. Much of the debris they find has probably been on the ocean floor or river bottom for many years. Often barnacles, oysters, starfish, sea coral and other marine or aquatic life have adopted this forgotten

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debris as part of their habitat. Divers have the added challenge of deciding whether removing the debris is worth destroying these improvised homes.

Volunteers in the International Coastal Cleanup record every piece of trash they collect on detailed, standardized data cards provided by The Ocean Conservancy. The data card lists 81 items volunteers are likely to encounter on beaches and waterways.

Recording each piece of debris found during the Cleanup is a tedious, but necessary, job for the volunteers if we are to better comprehend what types of debris are found along our beaches and waterways and create lasting solutions to the problem.

The data cards are compiled, analyzed, and tracked year by year, revealing possible patterns in marine debris in a region or country. Data cards from shoreline cleanups and underwater cleanups are compiled separately to ascertain whether and how debris differs above and below the water line. This valuable information is an effective tool for educating the public and government officials about the problem of marine debris. Cleanup data reports have influenced public policy on waste management, prompted legislation, and convinced individuals, organizations, and communities to examine their waste handling practices.

New Improved Data Card

From the first cleanup in 1986, The Ocean Conservancy knew that it was not enough simply to clean the beaches. To have any kind of lasting impact the Cleanup would also need to provide hard data on the types and quantities of the debris.

The first data cards contained 34 possible items volunteers might find, based on the kinds of debris found in the Gulf of Mexico. As the Cleanup expanded to other regions, new items were added to the card as volunteers recorded them in the "Other" category. Cigarette butts are the most famous example. By 1990 the list of items topped out at 81, categorized by what the debris was made of (wood, plastic, foamed plastic, rubber, metal, glass, paper, or cloth).

The Ocean Conservancy will be changing the data card in 2001 to reflect what we have learned in 16 years of collecting data on marine debris. The Ocean Conservancy's database currently contains over 70 million pieces of data from more than 100 countries; the types and quantities of debris, as well as its impact on coastal communities and marine wildlife, are well documented.

It is now time for the Cleanup to focus on the activities, sources, and behaviors producing the debris.

Thus, the 2001 data card will contain fewer items—those debris items found consistently and in the greatest quantities and locations—and will be categorized by the activity or source likely to have produced it: beach/shoreline and recreational activities, ocean/waterway activities, smoking related activities, dumping activities, and sewer waste.

Determining the source of the debris has always been integral to Cleanup data analyses, but the original data card could not provide enough information from which to draw many firm conclusions.

The Ocean Conservancy spent nearly two years developing the new data card, in consultation with Cleanup coordinators, volunteers, and the Cleanup Advisory Council. We believe the new card will reveal even more about where marine debris comes from, and will lead to better, permanent solutions for controlling our wayward trash.

The 2000 Cleanup

Results

More than 170,000 people turned out for the 2000 International Coastal Cleanup in the United States—**172,419** to be exact. They came from 46 states plus the District of Columbia, American Samoa, Commonwealth of the Northern Mariana Islands, Guam, and U.S. Virgin Islands. They covered over **10,231** miles on shore and underwater. Together, they picked up **5,074,227** pieces of debris weighing over **4.4** million pounds! (see chart page 9).

More than 3,900 divers contributed nearly 107,000 pounds of trash, covering a combined area of about 350 miles. They removed 78,362 pieces of debris from below the water's surface.

Sources of Debris

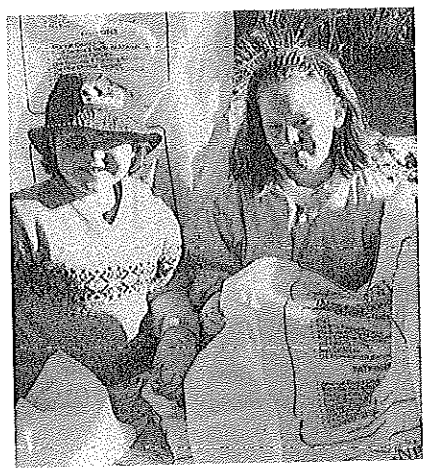
WHAT WE FOUND

Most (60.2%) of the debris found during the 2000 Cleanup was attributed to land-based sources such as beach-picnickers, inappropriate or illegal dumping, and general littering (see large pie chart page 16). This percentage has remained fairly consistent from year to year (58.5% in 1999; 59.5% in 1998). The percentage of debris attributed to ocean-based sources, such as recreational boats and commercial fishing, was comparatively low at 7.2%. Again, this percentage is similar to 1999 and 1998 (7.8% and 7.2% respectively) Almost one third (32.6%) of the debris could not be specifically attributed to either land- or ocean-based sources, and could have come from either source.

Interestingly, the underwater-only breakdown shows a higher percentage of land-based debris (71.2%) than the land-only cleanup (60.0%) (see small pie charts page 16). The percentage of ocean-based debris found on land was only slightly higher than the ocean-based debris found underwater.

WHAT IT MEANS

If we as a nation eliminated land-based sources of pollution only, our beaches and shorelines would be 60% cleaner—without anyone having to pick up a single piece of beach trash. Discarding our trash only into proper receptacles, whether at the beach, on a boat, or on a city street, may be the single most effective change we as a society can make in the effort to eliminate marine debris. For their part, municipalities can make sure to provide adequate public trash receptacles, update old sewer systems, and enforce anti-dumping laws. Improvements in recycling of goods and materials would keep even more debris off of our beaches and out of our waterways.



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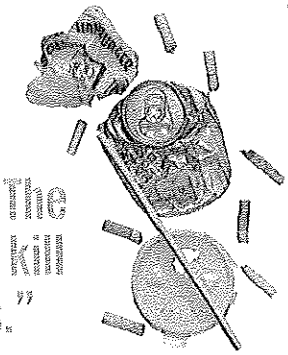


"This is sad. The trash could kill the animals."

—Elvela Joshua, 11, Julius E. Sprauve School student from St. John, Virgin Islands, taken from an article from The Virgin Island Daily News, October 4, 2000

The low figures of ocean-based sources of debris reveal that Annex V of the MARPOL treaty has considerably cut down on debris from oilrigs, ships, and other vessels. In 1988, for example, debris attributable to ocean-based sources made up 15.9% of the Cleanup total. Would sweeping national regulations, similar to Annex V and with its attendant financial penalties, achieve the same results on land? Or are the activities that generate land-based debris too varied and disparate to be controlled by legislation? Whatever the answer, people must fully understand that littering of any kind, anywhere is unacceptable if our oceans are to survive.

(text continues page 17)

U.S. People, Pounds and Miles

NR– cleanup activity but results not reported — — no cleanup activity

Cleanup Territory	Land			Underwater			Total		
	People	Pounds	Miles	People	Pounds	Miles	People	Pounds	Miles
Alabama	3,849	94,548	293.19	10	10	0.01	3,859	94,558	293.2
Alaska	148	3,706	42	—	—	—	148	3,706	42
American Samoa	1,485	414,140	45.37	21	1,000	2.48	1,506	415,140	47.85
Arizona	831	100,539	50.63	103	1,043	12.28	934	101,582	62.91
Arkansas	39	140	6	98	2,655	8	137	2,795	14
California	43,262	734,121	2,508.75	149	825	8.93	43,411	734,946	2,517.68
Colorado	108	419	20.5	75	350	7	183	769	27.5
Com. N. Mariana Islands	126	152	1.25	63	505	1.13	189	657	2.38
Connecticut	441	5,575	21.75	37	106	2.25	478	5,681	24
Delaware	1,815	24,710	90	—	—	—	1,815	24,710	90
District of Columbia	102	825	4.6	—	—	—	102	825	4.6
Florida	32,039	1,062,064	1,482.47	208	2,876	10.18	32,247	1,064,940	1,492.65
Georgia	437	3,228	10.5	14	150	2	451	3,378	12.5
Guam	1,663	52,904	0.75	273	3,518	0.56	1,936	56,422	1.31
Hawaii	2,185	31,487	135.59	155	2,218	2.57	2,340	33,705	138.16
Idaho	54	400	2.12	70	700	1.01	124	1,100	3.13
Illinois	971	3,850	17.54	106	1,043	1.61	1,077	4,893	19.15
Indiana	414	12,478	15	79	9,572	11.5	493	22,050	26.5
Iowa	15	100	1	26	800	3	41	900	4
Kentucky	7	800	1.5	18	212	0.5	25	1,012	2
Louisiana	2,440	85,208	163.25	22	15	NR	2,462	85,223	163.25
Maine	2,303	38,502	267.05	—	—	—	2,303	38,502	267.05
Maryland	513	12,770	31.75	—	—	—	513	12,770	31.75
Massachusetts	3,433	54,680	215.5	120	5,082	2	3,553	59,762	217.5
Michigan	1,528	7,128	128.83	31	1,510	0.53	1,559	8,638	129.36
Minnesota	125	1,463	18.25	27	220	3	152	1,683	21.25
Mississippi	2,850	60,060	70	90	8,000	1.25	2,940	68,060	71.25
Missouri	337	1,710	32.5	113	5,290	9.25	450	7,000	41.75
Montana	24	160	6.68	39	566	3	63	726	9.68
Nebraska	693	8,625	20.19	62	205	1.38	755	8,830	21.57
New Hampshire	868	6,106	25	13	900	1.25	881	7,006	26.25
New Jersey	3,250	30,995	36.75	484	3,456	1.25	3,734	34,451	38
New Mexico	7	20	0.13	7	10	0.13	14	30	0.26
New York	9,891	234,582	367.1	517	28,987	18.07	10,408	263,569	385.17
North Carolina	16,160	597,042	1,409.09	123	1,455	3.69	16,283	598,497	1,412.78
North Dakota	51	1,700	5.25	10	100	0.25	61	1,800	5.5
Ohio	466	8,175	22.15	137	1,266	1	603	9,441	23.15
Oklahoma	45	200	1.14	63	875	1.18	108	1,075	2.32
Oregon	6,057	36,135	366.75	23	300	1	6,080	36,435	367.75
Pennsylvania	380	1,945	37.5	14	720	1	394	2,665	38.5
Rhode Island	1,441	16,110	61.75	17	110	0.75	1,458	16,220	62.5
South Carolina	7,988	112,453	141.36	120	3,900	0.06	8,108	116,353	141.42
South Dakota	2	25	0.25	20	175	2	22	200	2.25
Tennessee	43	585	0.5	37	111	0.25	80	696	0.75
Texas	11,301	323,905	193.8	125	2,910	1.25	11,426	326,815	195.05
US Virgin Islands	593	5,705	12.73	27	6,225	0.5	620	11,930	13.23
Utah	7	6	0.75	11	120	0.25	18	126	1
Virginia	3,873	124,199	413.06	97	800	7.18	3,970	124,999	420.24
Washington	1,003	25,837	66.12	55	5,215	6	1,058	31,052	72.12
Wisconsin	802	355	14.75	23	475	1.11	825	830	15.86
Wyoming	6	10	1	16	340	7	22	350	8
Total	**168,471**	**4,342,582**	**8,881.44**	**3,948**	**106,921**	**150.59**	**172,419**	**4,449,503**	**9,032.03**

Total Number of Debris Items Collected During 2000 U.S. Coastal Cleanups

Debris Items	Total	Land	Underwater
PLASTIC:			
food bags/wrappers	**284,287**	281,324	2,963
salt bags	**3,233**	3,199	34
trash bags	**56,551**	55,914	637
other bags	**69,757**	68,890	867
plastic beverage bottles	**150,129**	146,645	3,484
bleach bottles	**6,929**	6,819	110
milk/water gallon jugs	**23,168**	22,792	376
oil/lube bottles	**11,725**	11,642	83
other plastic bottles	**42,71**	41,765	954
buckets	**7,283**	7,141	142
caps/lids	**255,253**	252,666	2,587
cigarette butts	**1,027,303**	1,014,896	12,407
cigarette lighters	**19,756**	19,502	254
cups/utensils	**95,588**	93,481	2,107
diapers	**7,562**	7,442	120
fishing line	**30,521**	29,729	792
fishing floats/lures	**14,942**	14,476	466
fishing nets	**8,606**	8,493	113
hard hats	**754**	743	11
light sticks	**11,119**	10,990	129
plastic pieces	**337,384**	334,652	2,732
pipe thread protectors	**4,150**	4,098	52
rope	**72,856**	72,275	581
long sheeting	**3,665**	3,625	40
short sheeting	**7,048**	6,955	93
six-pack holders	**15,857**	15,436	421
strapping bands	**19,019**	18,859	160
straws	**161,639**	159,972	1,667
syringes	**3,226**	3,199	27
tampon applicators	**10,986**	10,889	97
toys	**21,245**	21,063	182
vegetable sacks	**7,099**	7,025	74
write protection rings	**6,648**	6,605	43
other plastic	**84,032**	83,311	721
FOAMED PLASTIC:			
buoys	**15,153**	15,000	153
cups	**107,702**	105,689	2,013
egg cartons	**4,373**	4,311	62
fast food containers	**32,312**	31,745	567
meat trays	**9,338**	9,215	123
packaging material	**56,930**	56,301	629
foamed plastic pieces	**268,945**	266,794	2,151
plates	**25,021**	24,558	463
other foamed plastic	**29,173**	28,930	243
GLASS:			
beverage bottles	**177,039**	170,078	6,961
food jars	**12,382**	11,610	772

Debris Items	Total	Land	Underwater
GLASS: (cont.)			
other glass bottles/jars	**20,924**	20,572	352
fluorescent light tubes	**1,774**	1,758	16
light bulbs	**3,879**	3,847	32
glass pieces	**209,531**	207,920	1,611
other glass	**13,375**	12,944	431
RUBBER:			
balloons	**40,655**	40,419	236
condoms	**8,428**	8,276	152
gloves	**16,690**	16,512	178
tires	**9,030**	8,716	314
other rubber	**37,547**	37,010	537
METAL:			
bottle caps	**130,401**	128,382	2,019
aerosol cans	**10,176**	9,758	418
beverage cans	**184,294**	172,187	12,107
food cans	**13,633**	13,118	515
other cans	**8,964**	8,789	175
crab/lobster traps	**2,248**	2,167	81
55-gallon rusty drums	**2,466**	2,426	40
55-gallon new drums	**384**	383	1
metal pieces	**38,182**	37,580	602
pull tabs	**27,069**	26,434	635
wire	**14,814**	14,589	225
other metal	**58,850**	57,967	883
PAPER:			
bags	**40,093**	39,457	636
cardboard	**28,653**	28,375	278
cartons	**20,485**	20,269	216
paper cups	**43,794**	43,035	759
newspapers/magazines	**23,664**	23,367	297
paper pieces	**219,256**	217,167	2,089
paper plates	**16,365**	15,910	455
other paper	**47,789**	47,281	508
WOOD:			
crab/lobster traps	**1,781**	1,748	33
crates	**1,619**	1,606	13
lumber pieces	**70,503**	69,840	663
pallets	**4,526**	4,493	33
other wood	**32,558**	32,252	306
CLOTH:			
clothing/pieces	**49,470**	48,617	853
GRAND TOTALS	**5,074,277**	**4,995,915**	**78,362**

U.S. Coordinators

Our thanks and praise go to the U.S. state and territory coordinators whose time and energy made the 2000 cleanup a fun and safe event for everyone. The state and territory coordinators for the 2000 Cleanup are:

Alabama
Alma Wagner, ADECA-DISL

Alaska
Kyra Riley, The Ocean Conservancy

American Samoa
Andrew Sunia, American Samoa Environmental Protection Agency

Arizona
Leandra Lewis, Arizona Clean & Beautiful

California
Eben Schwartz, California Coastal Commission

Chris Parry, California Coastal Commission

Colorado
Carl Fox, Divers Reef

Connecticut
Peg Van Patten, Connecticut Sea Grant-UCONN

Delaware
Jennifer Hall, DE Department of Natural Resources and Environmental Control

District of Columbia
Joseph Lazarsky, The Ocean Conservancy

Florida
Michele Clary, The Ocean Conservancy

Denise Washick, The Ocean Conservancy

Georgia
Larry Shaffield, Clean Coast

Guam
Dave Duena, Guam Bureau of Planning, Guam Coastal Management Program

Hawai'i
Christine Woolaway, University of Hawai'i, Sea Grant Extension Service

Lynn Nakagawa, Hawai'i Coastal Zone Management Program

Illinois
Jennifer Nielsen, Lake Michigan Federation

Lisa Hronek, Lake Michigan Federation

Indiana
Gayle Tokarz, Grand Cal Task Force

Louisiana
Pam Kimball, Department of Environmental Quality, Environmental Assistance Division

Judy Desselle, Department of Environmental Quality, Environmental Assistance Division

Maine
Theresa Torrent-Ellis, Maine Coastal Program, State Planning Office

Maryland
Phyllis Koenings, Assateague Coastal Trust

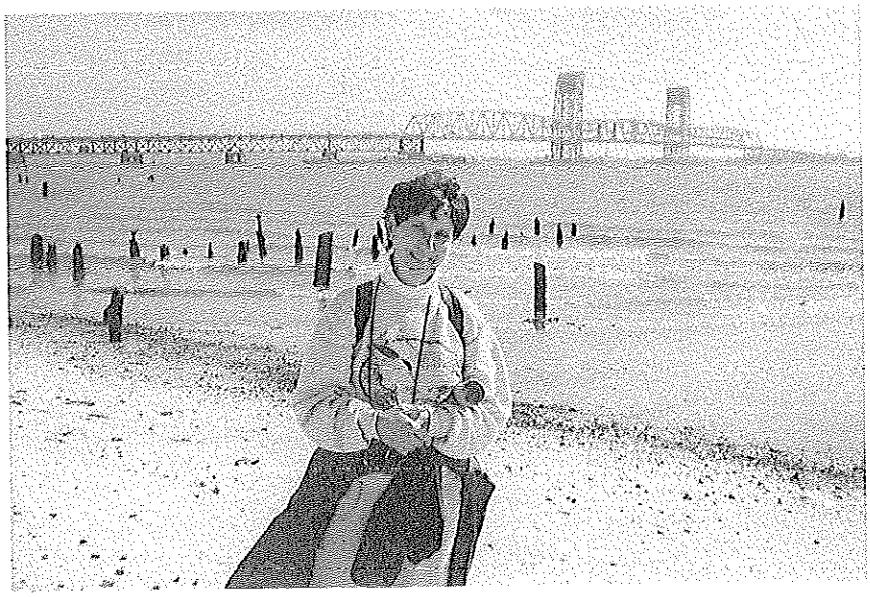
Massachusetts
Tom Hoppensteadt, Massachusetts Office of Coastal Zone Management

Michigan
Jamie Morton, Lake Michigan Federation

Minnesota
Jay Sandal, Great Lakes Aquarium

Mississippi
Lauren Thompson, Mississippi Department of Marine Resources

Missouri
Diane Sanders, Skin-n-Scuba Dive Shop Inc.



2000 US ICC

Montana
Evelyn Joppa, Mrs. J's Scuba

Nebraska
Jane Polson, Keep Nebraska Beautiful

New Hampshire
Mary Power, New Hampshire Coastal Program

New Jersey
Carol Elliott, Alliance for a Living Ocean

Virginia Loftin, NJ Dept. of Environmental Protection Adopt-A-Beach

Tony Totah, Clean Ocean Action

New York
Barbara Cohen, American Littoral Society

Don Riepe, American Littoral Society

North Carolina
Judy Bolin, North Carolina Big Sweep

North Dakota
Randy Kraft, SCUBA One

Ohio
Jamie Kochensparger, Ohio Lake Erie Commission

Oklahoma
Melissa Hohman, Grand Divers Supply

Oregon
Bev Ardueser, SOLV

Jack McGowan, SOLV

PADI Americas
Tiffany Leite, Project AWARE Foundation

Kristin Valette, Project AWARE Foundation

Pennsylvania
Leni Herr, VerizonTelephone Pioneers

Puerto Rico
Elimari Sanchez, Conserva el Encanto, Inc.

Rhode Island
Eugenia Marks, Audubon Society of Rhode Island

Christine Dalton, Audubon Society of Rhode Island

South Carolina
Peg Alford, S.C. Sea Grant Consortium

Ellis Farr, S.C. Department of Natural Resources

South Dakota
Dennis Lively, Scuba Supply/High Plains Dive Club

Tennessee
Virginia Keith, Ski/Scuba Center

Texas
Leah Esparza, Texas General Land Office, Texas Adopt-A-Beach Program

U.S. Virgin Islands
St. Croix: Paige Rothenberger, VI Marine Advisory Service, University of the Virgin Islands

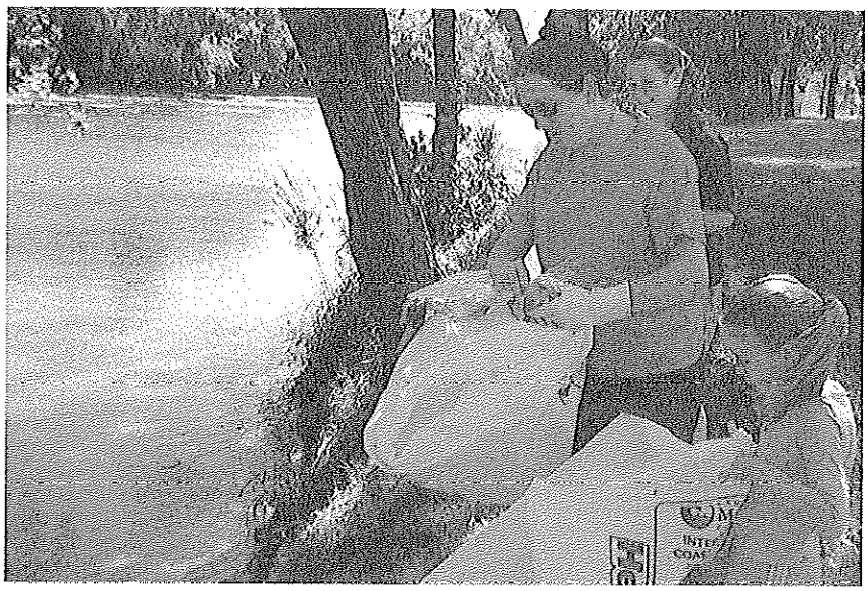
St. Thomas/St. John: Donna Griffin, Department of Planning and Natural Resources, Division of Fish and Wildlife

Vermont
Kathy Faulkner, Willoughby Divers

Virginia
Katie Register, Clean Virginia Waterways

Washington
Joan Hauser-Crowe, WA State Parks

Wisconsin
Kae DonLevy, Wisconsin Lake Schooner Education Association

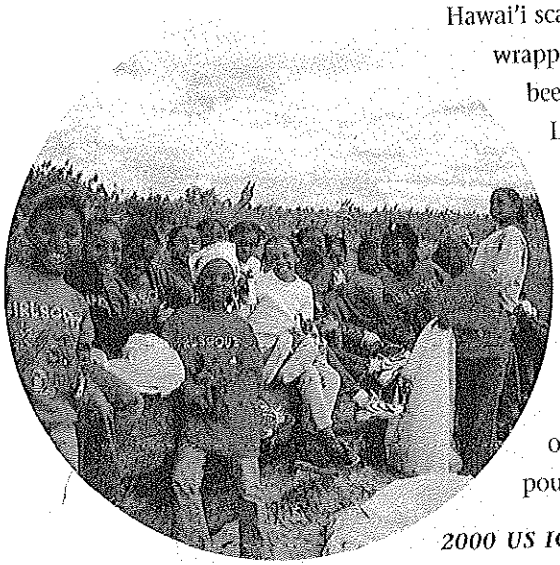


2000 US ICC

Highlights

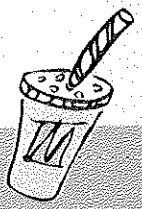
More than 170,000 volunteers made the 2000 U.S. Cleanup a roaring success again this year. North Carolina's volunteers reached record-breaking numbers —16,283. Many local television crews and newspapers publicized and reported on the local cleanups. At least one mayor and one State Senator in Indiana and Ohio rolled up their sleeves and pitched in to help. Many sponsors donated free lunches, T-shirts and coupons, and coordinators organized picnics, cookouts, raffles, treasure hunts, and other contests to ensure that the Cleanup was a memorable experience for everyone. Jackson County, Mississippi, for example, painted faces, judged sandcastles, and offered hayrides on a tractor. A few sites even used the event to raise money for local charities.

Some crews reported a beautiful, balmy, blue-skied day for the Cleanup, while other sites faced an unpredictable Mother Nature. A coordinator in Seward, Alaska complained that, "It seems no matter which day we pick, it RAINS!" noting that the date of last year's cleanup was beautiful this year! Hurricane Gordon disrupted the cleanup in Florida. One participant in Sunset Beach reported that, "We got about two hours of cleanup before we got hit with 40 mph winds!" Big surf in Waimea Bay, Hawai'i scattered cans and wrappers that had already been collected, and in Lake Havasu City, Arizona, volunteers worked in 110-degree heat!



2000 US ICC

In spite of uncooperative weather in some places, volunteers picked up over 4.4 million pounds of trash, and we are happy to report that many of the sites recycled much of that trash. In fact, in Pennsylvania, the recyclable separation party drew more volunteers than the cleanup! (The recyclers have already been recruited for next year's cleanup effort.)



Fun Fact!

Found: 297,457 straws
When stacked end to end, they would be 6.8 times higher than Mt. Everest!

Our younger citizens contributed appreciably to the Cleanup this year. Six-year old Ayla Stephen was the only diver in her cleanup crew in Florida. Michelle Burkett from Rancho Santa Margarita, California used the Cleanup as part of her Gold Award project, the highest award she can receive as a Girl Scout. Some lucky schoolchildren got a day off from school while others used this opportunity to learn more about pollution and the marine environment. Wisconsin students incorporated the Cleanup into a new science curriculum about water—13 different schools and more than 800 students participated. Long Island, New York has started its own pollution study project where youth groups will document debris collected over one year, comparing data taken at different times. Students from Monroe County, New York turned their education into action: after tracing a large number of foamed plastic cups to a local bait shop, they discussed switching to a more biodegradable container with the shop owner. Some Washington State students used part of the day to stencil "DUMP NO WASTE, DRAINS TO BAY" on storm drains in the area to remind people that storm drains are not trash cans.

As always, marine and other wildlife made the Cleanup memorable for many cleanup crews. Two unfortunate divers were stung by jellyfish in California, while biting black flies were quite an ordeal for people collecting trash on the beach in Georgia. In

Hawai'i, an octopus followed a dive team for 15 minutes as they retrieved monofilament debris from the water. A huge school of salmon in Lake Michigan surprised a crew in Illinois and all attentions were turned from trash to this real-life nature show. And last but certainly not least, "Sneakers," a volunteer dog from Pennsylvania, eagerly transported trash that divers had retrieved from the water to the shore.

Many crews noted examples of how animals and vegetation had adapted to their polluted habitat. One sunfish had made its home in a tire, and a tree had grown around a box spring that was in its way. Here are a few more highlights from the 2000 Cleanup:

POLICE REPORT

A Girl Scout troop leader found a dead man in Halls Mill Creek in Alabama. Luckily, none of the Scouts saw the body. A woman's purse which had been reported stolen weeks before was found under a fishing bridge in Ocean Springs, Mississippi. The credit cards and money were missing, but the woman was happy to be reunited with her driver's license, photos, and other belongings.

ANCHORS AWAY

The Naval Construction Battalion Center sent 90 students from their training center for the first time to clean up the Back Bay of Bilioxi, Mississippi. They brought a fleet of 26 boats and canoes and were able to clean areas previously not accessible to Cleanup volunteers.

THAT DUCK MUST BE ON SOMETHING...

Concerned volunteers in Rhode Island brought a duck displaying what they thought was strange behavior to a wildlife veterinarian. Although the duck's behavior was normal for its species, it was an abandoned domestic breed, and would not have survived long in the wild. It now resides at a rehabilitation center that specializes in ducks.

BURIED TREASURES

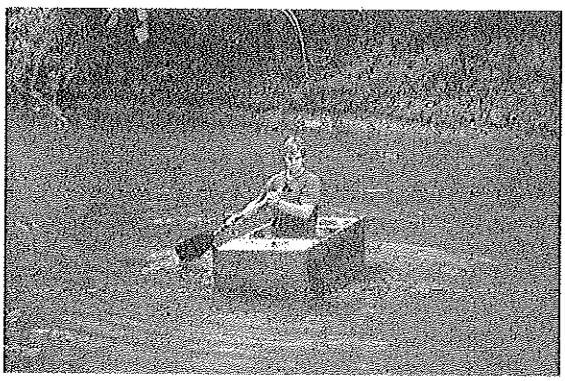
Divers in Maine collected artifacts for the Georgetown Historical Society before the city started construction on a new bridge. An Iowa volunteer found a 150-year-old buffalo bone, now going into a museum!

NO TRESPASSING (USUALLY)

Officials in Ohio allowed Cleanup volunteers to scour nature preserves and wildlife refugees normally off limits to people for trash and litter. Sure enough, the crew found debris all over these "pristine" areas supposedly protected from human encroachment.

ROW, ROW, ROW YOUR...FRIDGE?

One cleanup crew in Virginia found a refrigerator afloat in the water. After pondering how to bring it on land, one creative volunteer opened the door, jumped inside, and paddled it ashore.

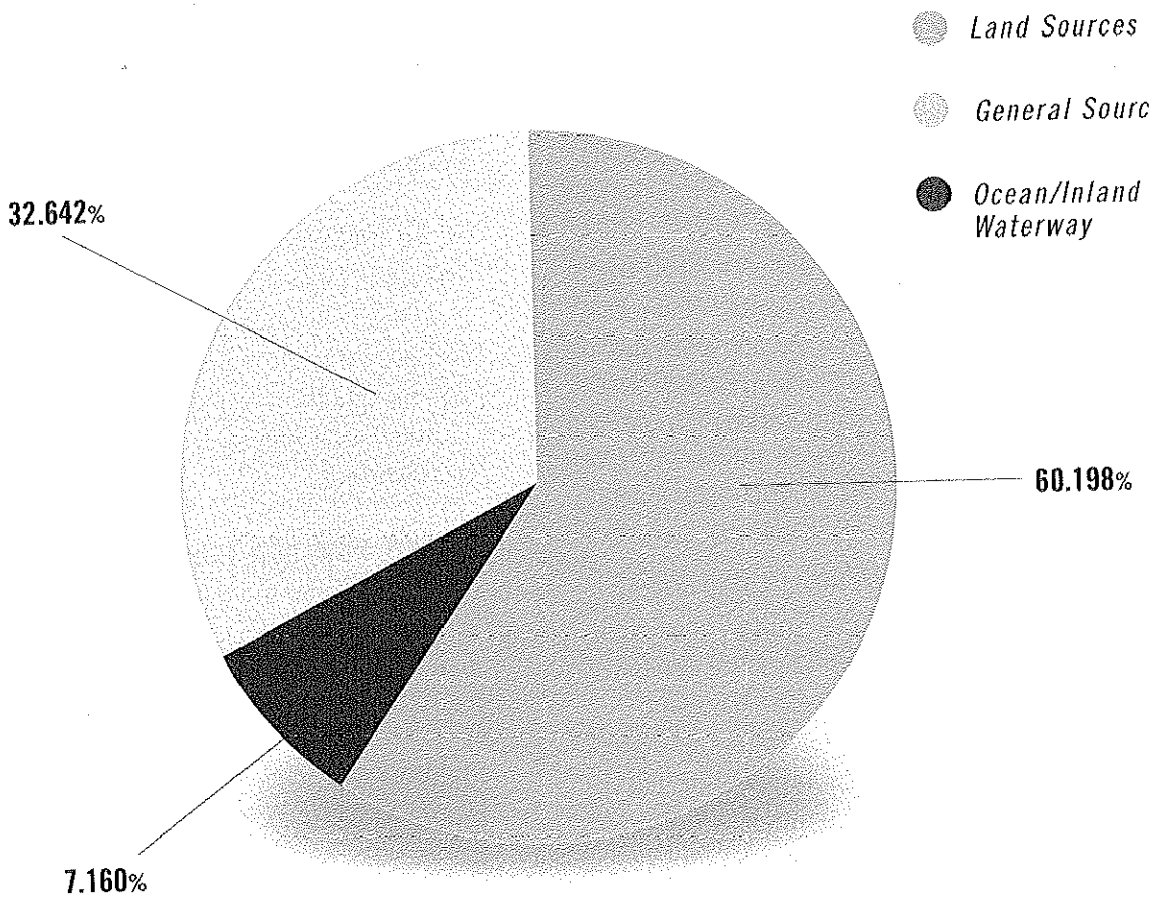


Resourceful VA volunteer paddles an abandoned refrigerator to shore.

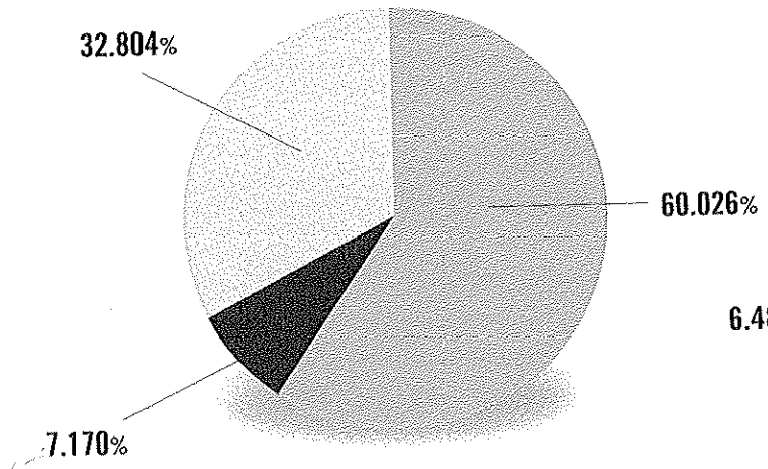
AND THE AWARD GOES TO...

Two dedicated volunteers, both from New York, were recognized for their long-time commitment to the Cleanup in their local areas. Barbara Cohen received an Environmental Quality Award from the U.S. Environmental Protection Agency, and Sharen Trembath received the Ford Taurus Community Safety Award, and was featured in *People* magazine!

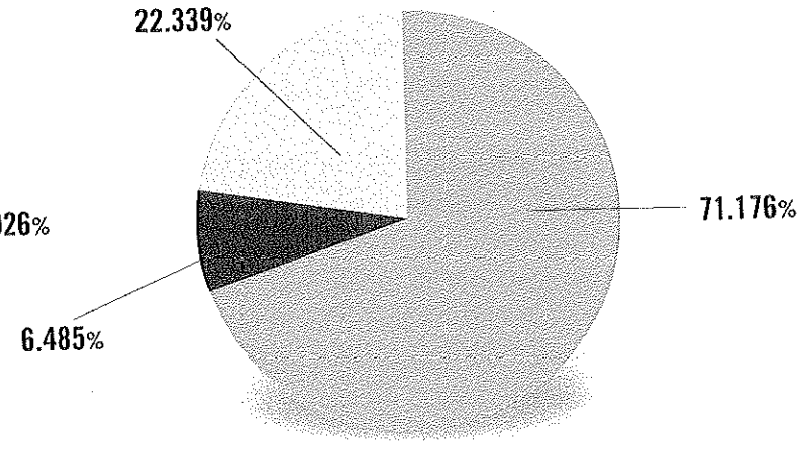
Percent Debris Source Collected



Debris Collected from Land and Underwater Cleanups



Debris Collected from Land Cleanups



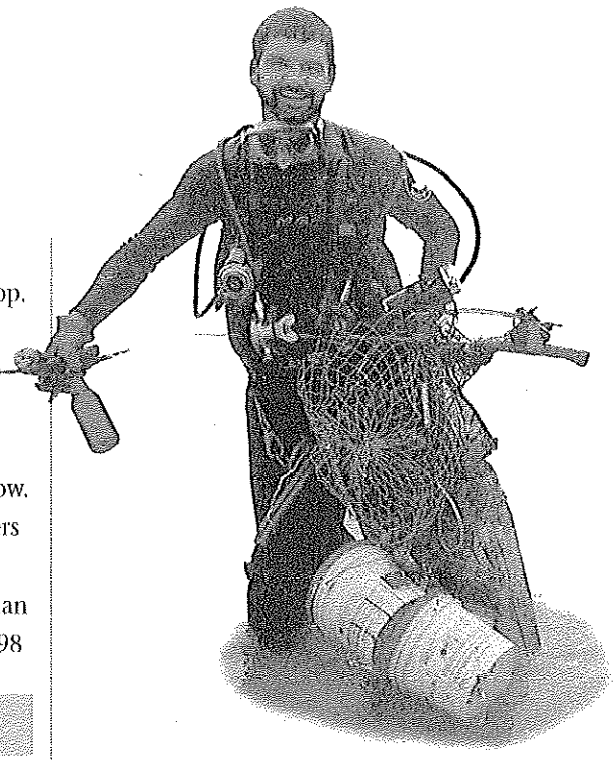
Debris Collected from Underwater Cleanups

The Dirty Dozen

WHAT WE FOUND

Every year The Ocean Conservancy tabulates the top 12 most prevalent items found during the cleanup and lists them in our annual report. Year after year the same items get the dubious distinction of being the "Dirty Dozen." This year's list predictably resembles last year's, with cigarette filters once again at the top. The 2000 Dirty Dozen makes up 67.1% of all the debris collected, up slightly from last year. The top 12 items found during the 2000 Cleanup are listed in the chart below.

The percentage of cigarette filters collected this year (20.25%) was about a percentage point higher than last year, but still lower than in 1998 (23.82%) and 1997 (22.55%). You are more than three times as likely to find a cigarette butt on the beach as any other item on our list. Our volunteers found enough cigarette filters to make up 51,365 packs of cigarettes!



Seven items of the Dirty Dozen are made from some form of plastic. If cigarette filters are taken out of the equation, plastics and foamed plastics make up 59.4% of the debris found during the cleanup; with cigarette filters the figure rises to 67.6%. Plastics are ubiquitous in our society, especially as food packaging, and they create a particularly difficult

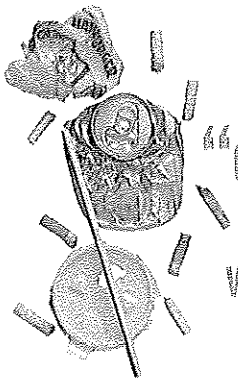
2000 United States Dirty Dozen — Total

	Items	Total Number Reported	Percentage of Total Debris Collected
1.	cigarette filters	1,027,303	20.25%
2.	plastic pieces	337,384	6.65%
3.	food bags/wrappers	284,287	5.60%
4.	foamed plastic pieces	268,945	5.30%
5.	caps, lids (plastic)	255,253	5.03%
6.	paper pieces	219,256	4.32%
7.	glass pieces	209,531	4.13%
8.	beverage cans	184,294	3.63%
9.	beverage bottles (glass)	177,039	3.49%
10.	straws	161,639	3.19%
11.	beverage bottles (plastic)	150,129	2.96%
12.	bottle caps (metal)	130,401	2.57%
Dirty Dozen Totals		**3,405,461**	**67.12%**
13.	cups (foamed plastic)	107,702	2.12%
14.	cups, utensils (plastic)	95,588	1.88%
15.	other plastic items	84,032	1.66%
16.	rope	72,856	1.44%
17.	lumber pieces	70,503	1.39%
18.	other plastic bags	69,757	1.37%
19.	other metal items	58,850	1.16%
20.	packaging material (foamed plastic)	56,930	1.12%
Top 20 Totals		**4,021,679**	**79.26%**

Fun Fact!

Found: 607,708 beverage bottles

That's enough to give every resident of the state of Wyoming 1.2 beverages!



"Cigarette butts and balloons were extremely common and should be highlighted by the media as problems."

— Thomas Hoppensteadt, State Coordinator of Massachusetts

dilemma in the environment, because plastic is strong, durable, and does not easily degrade.

The most noteworthy differences from last year's Dirty Dozen appears in the underwater-only list (see chart page 19) Beverage cans, glass beverage bottles and plastic beverage bottles took 2nd, 3rd, and 4th place respectively, behind cigarette filters, making up about 28.78% of the total items found. In 1999, beverage cans, glass beverage bottles and plastic beverage bottles made up only 9.55% of the total items found underwater. Number 15 balloons on last year's underwater list was not even in the top twenty this year, and fishing line appeared on the list of underwater items again after being absent last year.

2000 US ICC

WHAT IT MEANS

Many smokers have developed the bad habit of tossing cigarettes filters out car windows, along sidewalks, and on our beaches. No matter where you toss your cigarette, heavy rains and storm drains can carry these lightweight materials toward our oceans and waterways. Cigarette filters are composed of cellulose acetate, a synthetic polymer (a form

2000 United States Dirty Dozen – Land

Items	Total Number Reported	Percentage of Total Debris Collected
1. cigarette butts	1,014,896	20.31%
2. plastic pieces	334,652	6.70%
3. food bags/wrappers (plastic)	281,324	5.63%
4. foamed plastic pieces	266,794	5.34%
5. caps, lids (plastic)	252,666	5.06%
6. paper pieces	217,167	4.35%
7. glass pieces	207,920	4.16%
8. beverage cans	172,187	3.45%
9. beverage bottles (glass)	170,078	3.40%
10. straws	159,972	3.20%
11. beverage bottles (plastic)	146,645	2.94%
12. bottle caps (metal)	128,382	2.57%
Dirty Dozen Totals	**3,352,683**	**67.11%**
13. cups (foamed plastic)	105,689	2.12%
14. cups, utensils (plastic)	93,481	1.87%
15. other plastic items	83,311	1.67%
16. rope	72,275	1.45%
17. lumber pieces	69,840	1.40%
18. other plastic bags	68.890	1.38%
19. other metal items	57,967	1.16%
20. packing material (foamed plastic)	56,301	1.13%
Top 20 Totals	**3,960,437**	**79.29%**

of plastic), and can take up to seven years to biodegrade. Most people assume that one little cigarette butt is too small to make an impact on the environment, but one filter can harm marine life, and 1 **million** of them, as our volunteers found, create a serious hazard. Birds, sea turtles, whales, and other marine animals accidentally ingest the cigarettes filters causing severe intestinal problems, and sometimes even death. If smokers disposed of their used filters only in appropriate receptacles, our beaches and waterways would be cleaner, and safer.

Since 1990 the following nine items have appeared in the Dirty Dozen every year: cigarette filters, plastic pieces, foamed plastic pieces, paper pieces, plastic caps and lids, glass pieces, glass beverage bottles, plastic straws, and beverage cans. Most of these items are whole or remnants of packaging from food or beverage products—in other words, it is what we throw away after we have consumed or used the product.

Seabirds are particularly susceptible to entanglement in discarded fishing gear.

2000 United States Dirty Dozen – Underwater

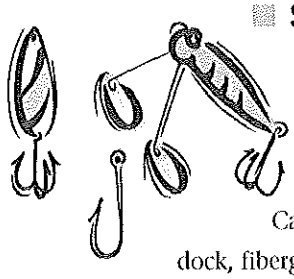
	Items	Total Number Reported	Percentage of Total Debris Collected
1.	cigarette filters	12,407	15.38%
2.	beverage cans	12,107	15.45%
3.	beverage bottles (glass)	6,961	8.88%
4.	beverage bottles (plastic)	3,484	4.45%
5.	food bags/wrappers (plastic)	2,963	3.78%
6.	plastic pieces	2,732	3.49%
7.	caps, lids (plastic)	2,587	3.30%
8.	foamed plastic pieces	2,151	2.74%
9.	cups, utensils (plastic)	2,107	2.69%
10.	paper pieces	2,089	2.67%
11.	bottle caps (metal)	2,019	2.58%
12.	cups (foamed plastic)	2,013	2.57%
Dirty Dozen Totals		**53,620**	**68.43%**
13.	straws	1,667	2.13%
14.	glass pieces	1,611	2.06%
15.	other plastic bottles	954	1.22%
16.	other metal items	883	1.13%
17.	other plastic bags	867	1.11%
18.	clothing/pieces	853	1.09%
19.	fishing line	792	1.01%
20.	food jars (glass)	772	0.99%
Top 20 Totals		**62,019**	**79.17%**

More and more beaches are installing adequate facilities for waste disposal, and some have even installed special receptacles for cigarette and other smoking-related products. Yet the same items keep appearing in the Dirty Dozen year after year. The message seems clear: the only way to really stop marine debris is to stop littering. The impact of such a simple behavior would be profound. If people could prevent just these 12 items from becoming marine debris, our beaches and oceans would be 67% cleaner!

(text continues page 22)

You Want It? We've Got It!

If Christopher Columbus were to land on our beaches today, he would discover more than just a new world—Columbus and his crew could live like royalty with the amount of appliances, electronics and furniture found by our cleanup volunteers. Power sources? No problem—volunteers found a ton of batteries on the beach. They would have had enough car and boat parts to handle sufficient transportation, and they would have even found some decorations for Christmas. Here are some of the more peculiar and interesting items found by our volunteers during the 2000 Cleanup.

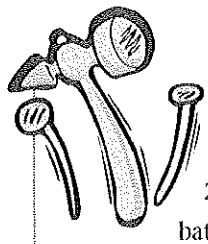


SAILING ON THE HIGH SEAS

Broken fishing poles, tackle and bait boxes and assorted bait, boats and partial boats including a broken canoe, 4'x8' paddle boat and Hobie Cat sailboat pontoon; 12'x12' floating dock, fiberglass chair seats, oars, 4-ton boat engine, outboard motor, anchors, anti-backflow valve from a marine toilet, boat batteries, boat cushions, boat and ship doors, boat ladder, boat propellers, rudder, fuel tank, pumps, life preservers, pair of waders, row boats, sailboat sail, boat stove, channel marker

PHARMACY AT SEA

Marijuana bags and pipes, bag of cocaine, crack vials, asthma inhalers, a bed pan, biohazard bag, Band-Aids, birth control pill container (empty), blood pressure cuff, bloody swab stick, crutches, diabetes tester with blood, enema bottle and applicator, eye patch, glass hypodermic needle, half-used tube of Preparation H, hospital I.D. bands, IV bag and needles, Nicoderm patch, prescription pills, stethoscope, wheelchairs, thermometers, knee brace, finger splint, wrist brace, test tubes

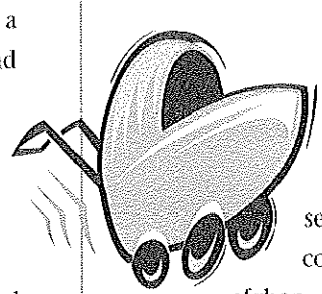


HANDYMAN'S HEAVEN

Paint thinner, bucket of tar, broken saw blade, lumber, plastic pipes, roof shingles, 24-foot aluminum ladder, nails, pieces of bathroom tiles, asbestos sheets, asphalt shingles, bathroom door, wheelbarrow without wheels, bricks, broken porta-potty, can of glue, bottle of caulking, cement blocks, construction hazard barrel, construction sign, door hinges, door knob, drain pipe, duct tape, glass light fixture, glass sliding doors, gutter, kitchen counter top, linoleum, manhole cover, paint brushes and paint rollers, plywood, scaffolding, window screens, sheet rock, wrenches, bolts, cable, chains, electric drill and drill bit, electric fuse box, hammer, screws, nails, ruler, sandpaper, saw blades, shovels screw driver, pliers, weed whacker, welding goggles

IN THE LINE OF FIRE

Flare gun casings, shotgun shells, a 38-caliber gun, ammunition, arrow, BB gun refill, bullet casings and wads, grenade, a mortar launcher, pellet gun and canister, pocketknife



THERE GOES THE NEIGHBORHOOD...

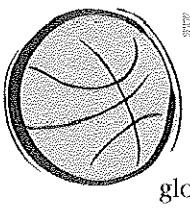
Carpeting, rugs, ovens, coconut drinking glasses, toilets and toilet seats, garden hose, chairs, telephones, couches, propane tanks, batteries, afghan, air conditioner units, air mattresses, antique bone-handled knife, artificial flowers, baby car seat, baby carriage, baby stroller, baking racks, bar stool, bath tub, sinks, BBQ grills, beds, box springs, Easter egg, bottle of Windex, broken miniblinds, broken playpen, brooms, can of potted meat, cat pooper-scooper, chairs, Christmas decorations, electric fans and heaters, fire hydrant, hammock, lawn mowers, lamps, microwaves, refrigerators, suitcases, vacuum cleaners, waffle iron

DISCOUNT AUTO PARTS (AND OTHER MODES OF TRANSPORTATION)

Front ends of cars, John Deere 4x4 vehicle, motorcycles, seatbelts, antique motor, auto mufflers, broken headlights and a windshield, bucket of used motor oil, license plates, air filters, radio antennas, arm rest, car batteries, brake pads and a brake pedal, bumpers, dashboards, engines, exhaust pipes, car keys, floor mats, car stereo and speaker, glove compartment, rear-view mirror, hubcaps, mud flaps for trucks, radiator, steering wheel column, trailer hitch, windshield wiper blades, spark plugs, gas cans (one full of gas), guard rails, helicopter, orange road cones, parking meter, parking sign, parts from a crashed airplane, road reflectors, road signs, wagon

GADGETS AND GIZMOS GALORE

"ESC" key from a computer keyboard, 4-way appliance plug, Apple portable computer and other computers, calculator, cameras (two waterproof cameras), cassette players and tapes (Van Halen '94), CD player and CD's, cell phones, circuit boards, a commercial copier and copy machine parts, computer monitors, mouse and mouse pad, eight track tape, headphones, ink jet cartridges, pagers, record players and records, remote controls, satellite dishes, stereos, speakers, TV sets, VCR's, telephone cords



LOSING IS PART OF THE GAME

Golf balls, skates, roller blades, surfboard, tennis balls, bicycles, tricycles, badminton set, baseballs, bats, and gloves, bingo card, bowling ball, brand new golf club in the wrapper, Frisbees, cooler, diving board, duck decoys, goggles, kayak and paddles, kites, lawn furniture, basketballs, pogo stick, ski pole, scuba equipment, snowmobile, swimming pools, tackling dummy, tents, wet suit, beach chairs, parachute flare still with charge

INDECENT DISPOSALS (AND OTHER PERSONAL ITEMS)

Contraceptive foam, disposable douches, "I love to party" key chain, eyeglasses, pair of Oakley sunglasses, toothbrushes, E.P.T. pregnancy kit, contact lens solution, dentures, fake fingernails, hair curlers, hair extensions, baby wipes, dental floss, deodorant, pacifiers, wigs, a briefcase, backpacks, homework, dildo, Father's Day card in envelope (undelivered), message in a "LOVE" picture frame, teeth bleaching kit, hearing aid, retainer

CHA-CHING

At least $180.83 worth in cash, credit cards, bank cards, bracelet, lottery tickets, money from Nicaragua and Costa Rica, diamond earring, dive watch, drivers licenses, wallets, gold coins, Indian head penny, phone cards, purses, rabbit's foot, rings, Timex watch (still working), US passport, soccer ball signed by Carla Overbeck, food stamps, a check and a checkbook

SAVE THE PLANET: DON'T LITTER

Environmental leaf bags, Nature Conservancy sign, oil spill containment booms, recycling bin

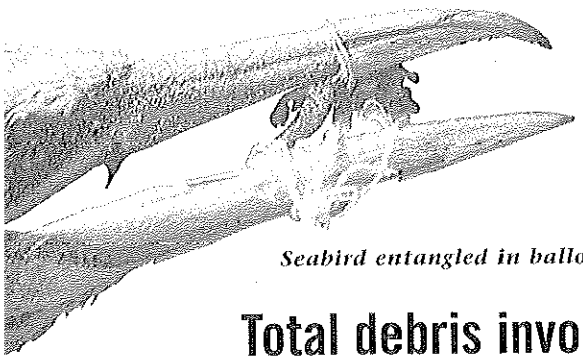
AND TOO WEIRD TO CATEGORIZE!

City garbage cans, fireworks and bottle rockets, American flag, arrest warrant, Barbie's big wheel jeep, Bible, binoculars, bottle with a message inside, flea collar with ID tag "Fluffy", guitar, picture of a naked girl on a horse, overhead projector, pink flamingo, decorative cows, books, a safe, "Do Not Cross" police tape, "For Sale" sign, "No Littering" sign, shopping carts, wedding pictures, political campaign signs, barrels, broken rickshaw, burnt police training manual, cafeteria tray, hotel door handle, mailbox, map of Florida, phone bills, police radio scanner, report card, torch, whoopee cushion, rosary beads

The Dangers of Debris

Marine debris has a devastating and often lethal effect on marine wildlife. Each year volunteers find animals entangled in pieces of trash; this year was no exception.

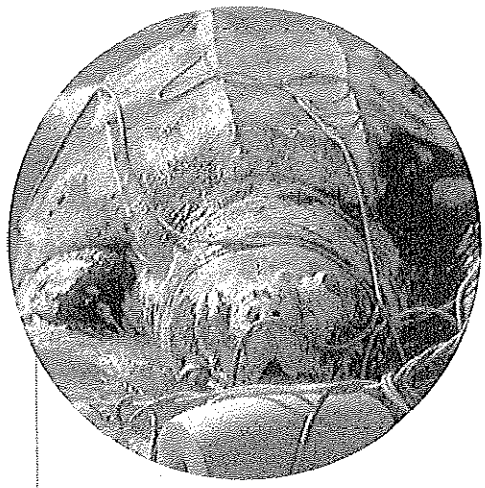
Marine animals easily become entangled in debris floating in water or left on the beach. Monofilament fishing lines, fishing nets, six-pack rings, and strapping bands are some of the worst culprits. Birds, for example, often become entangled in trash they have selected for nesting.



Seabird entangled in balloon and string.

Debris that has wrapped around limbs, fins or flippers can cause circulation loss and amputation, especially as the animal grows. Animals slowed down by trailing debris are more vulnerable to predators. Heavy large plastic sheets and other large debris smother or trap sand-dwelling animals and drown those that rise to the surface to breathe.

Accidental ingestion of marine debris also injures and kills marine animals. According to the most recent U.S. Marine Mammal Commission report in 1997, six of the world's seven species of sea turtles, and at least 111 of the world's 312 species of seabirds have been reported to swallow floating pieces of debris. Turtles confuse floating plastic



Loggerhead sea turtle entangled in discarded fishing gear.

bags with jellyfish, one of their favorite treats. Seabirds, too, are especially vulnerable to unintentional ingestion of debris because of their indiscriminate eating habits. Many animals cannot regurgitate an item once it has been swallowed, and it often becomes lodged in their throat and digestive tract. Debris that will not pass out of the stomach gives a false sense of fullness, and some animals will stop eating, and slowly

Total debris involved in animal entanglements

Debris Items	Invertebrates	fish	amphibians	birds	reptiles	mammals	total
balloon ribbon/string	1	2		6		1	10
fishing line with hook/lure	23	48	1	84	4	3	163
crab/lobster traps		2		1			3
fishing nets/rope	6	9		4	2	2	23
plastic bags	8	14		11		9	42
plastic sheetings	1	3	1	5		2	12
rope	9	30		8	2	2	51
six-pack holders	6	4		16			26
strapping bands	1	1		1			3
wire	5	5		5	1	3	19
miscellaneous	1	1		1			3
Total	**61**	**119**	**2**	**142**	**9**	**22**	**355**

starve to death. Ingested debris such as cigarette filters can also poison wildlife, releasing toxins into the bloodstream.

WHAT WE FOUND

Sadly, the number of entangled animals found in 2000 surpassed the record high set in 1999. Our volunteers found 355 animals entangled in some form of debris (see table page 22). Most of the entanglement victims were birds—our volunteers found 142 of them—while fish (119 reported) were the second most frequently found entangled animal. Fishing line caused about 46% of the entanglements; rope was a distant second, causing 51 (14%) entanglements. Volunteers also found animals entangled in balloons with ribbons, fishing nets, plastic bags, six-pack holders, wire, crab or lobster traps, plastic sheeting, and strapping bands.

Fishing lines are particularly hazardous to marine animals because they are designed to withstand the thrashing, yanking, and pulling of a fish trying to escape. Likewise, fishing nets purposefully ensnare fish. When these items break loose in our waters they become a floating deathtrap for wildlife. "Ghost-fishing" is the term used to describe abandoned nets and gear still catching fish that will never be retrieved. In 2000, volunteers collected a combined total of 39,127 fishing lines and nets in a three-hour period on just one day out of the year.

WHAT IT MEANS

The amount of trash collected during the Cleanup gives us an idea of the hazards marine wildlife face daily with marine debris. More than a million cigarette butts and nearly 300,000 plastic bags might have been ingested. Thirty thousand pieces of fishing line, 15,000 six-pack holders, and 72,000 ropes could have entangled unsuspecting animals. Each piece of debris that enters the ocean or waterway has the potential to injure or kill marine life.

Dead loon in balloon strings.

The number of marine animals reported entangled during the Cleanup represents just a snapshot of the amount of damage debris causes to marine animals. Volunteers were not able to reach every mile of coastal land, and divers were certainly not able to cover every inch of underwater environment. And of course, we will never know how many animals suffer and die every year on the open sea, never to be recorded as a casualty of debris.

Sea lion entangled in fishing net.

Beyond the Cleanup

Since 1986, Americans have removed 36.4 million pounds of trash from beaches and waterways during the annual International Coastal Cleanup. Our volunteers share our vision of cleaner waters and our goal of reducing and, eventually eliminating, marine debris.

Yet, yearly cleanups are only a temporary bandage on a much larger global wound. Improving the quality of our waters means going to the individual sources of marine pollution to stop litter and waste from becoming marine debris.

The solution involves a focused approach on multiple fronts. Public education is essential in helping people understand how one plastic bag or one soda bottle can affect the environment. Cities must closely inspect their solid waste management facilities and renovate outdated sewer and storm drain systems so that wastewater and street runoff is handled in an environmentally sound manner. Consumers must demand recycled goods and better recycling facilities to find useful purposes for the ever-increasing amount of trash we create.

Agreements like the MARPOL treaty demonstrate that people and governments are becoming more aware of the immensity of our global marine pollution problem. But we still have a long way to go.

The Ocean Conservancy conducts a number of programs designed to take the lessons of the Cleanup and create long-lasting solutions to the problem of marine debris. These activities are direct outgrowths of the International Coastal Cleanup, and each tackle marine debris from a slightly different angle. Collectively, they educate neighborhoods about watershed drainage patterns; create conditions that yield reliable monitoring data; and involve communities in creating their own solutions.

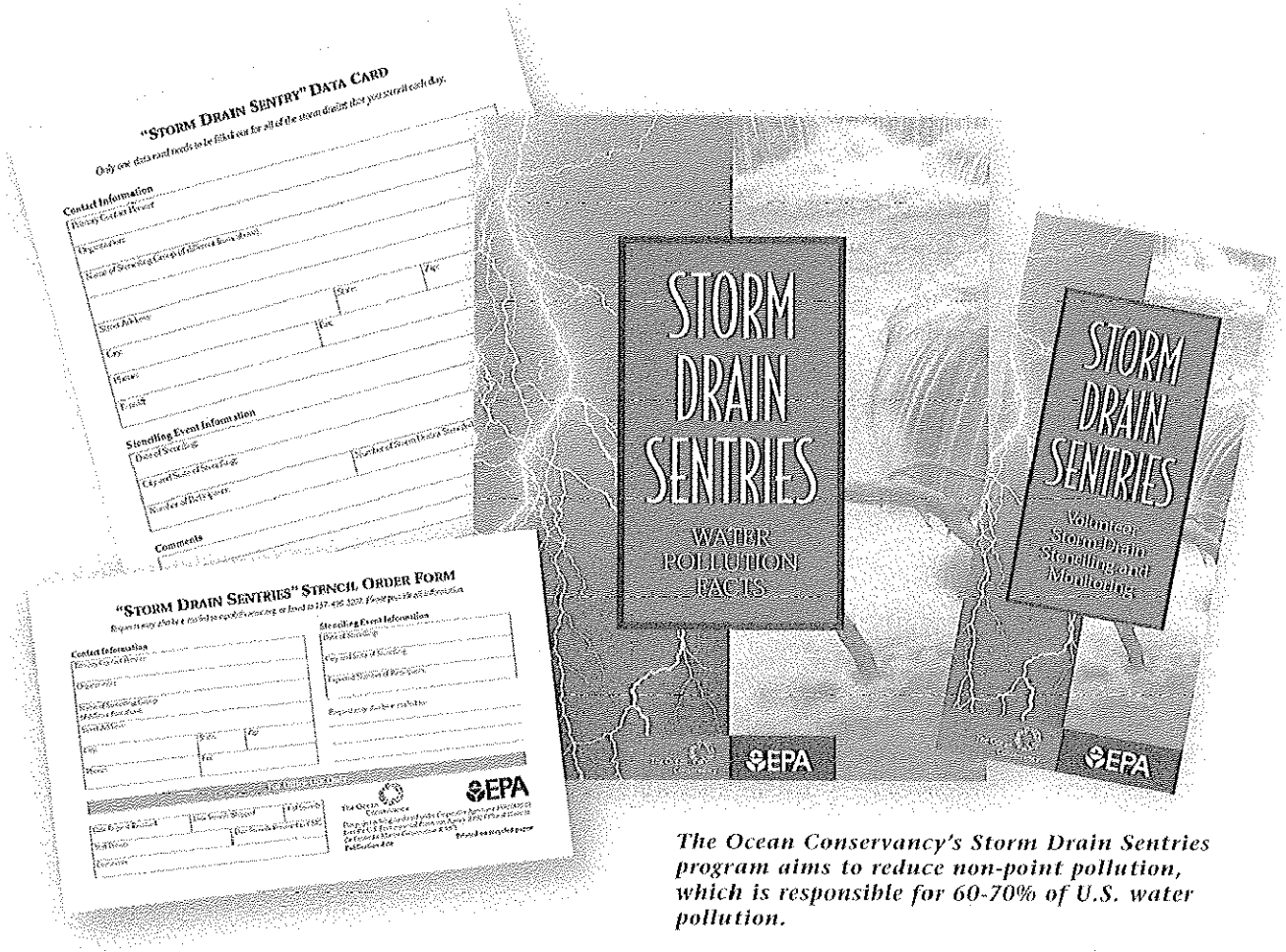
The following programs are run out of The Ocean Conservancy's Pollution Prevention office in Virginia Beach, VA. Call 757-496-0920 for more information.

Storm Drain Stenciling

Many people don't realize that the storm drains in their neighborhoods are direct links to nearby bodies of water, and that stormwater runoff containing street litter, household and automotive chemicals, and other pollutants rarely receives the benefit of treatment before it discharges into bodies of water.

Managed by The Ocean Conservancy and funded by the U.S. Environmental Protection Agency, Storm Drain Sentries is an education campaign designed to alert the general public about nonpoint source pollution and the direct connection between land activities, storm drains, and local water quality. Volunteers stencil storm drains with messages such as "Don't Dump! Protect Your Water."

The Ocean Conservancy sends interested groups a storm drain sten-



The Ocean Conservancy's Storm Drain Sentries program aims to reduce non-point pollution, which is responsible for 60-70% of U.S. water pollution.

ciling kit complete with a fact sheet about nonpoint source pollution, its impacts, and what citizens can do to prevent it. The kit also contains instructions for conducting a stenciling project and a data card for recording information about the number of storm drains stenciled and the types of pollutants found around them.

National Marine Debris Monitoring Program

Data from the International Coastal Cleanup have been used to inform legislative hearings, shape U.S. government programs and research, support public education campaigns, and ultimately spur changes in federal and state law and industry practice. These statistics, however, lack the degree of rigor that comes only from controlled conditions—conditions that are impossible to enforce at once-a-year events at varying conditions at the sites, and varying levels of expertise among participants.

The Ocean Conservancy's National Marine Debris Monitoring Program, supported by the Environmental Protection Agency, answers the need for scientifically sound data. Once a month for five years, specially trained volunteers collect and record debris at 180 sites across the country. At the conclusion of the five-year study, The Ocean Conservancy will conduct a statistical analysis to determine whether marine debris is significantly diminishing in response to current laws and education efforts. The results of the study will also help us identify the major sources of the debris.

The debris study is an excellent opportunity for volunteers to become more involved in combating marine debris by becoming active participants in this scientific study. School groups, community organizations, Scout Troops, and concerned citizens are participating in this study at sites located along the entire U.S. coastline including Alaska, Hawai'i, Puerto Rico and the U.S. Virgin Islands.

Local Solutions

Using data from the Cleanup, The Ocean Conservancy is working with coastal communities around the country and in the Wider Caribbean to develop specific strategies to help keep their wastes out of the water. With support from the Brunswick Public Foundation, Coca-Cola, Philip Morris, and Royal Caribbean International, The Ocean Conservancy's Model Communities program operates on the principle that a problem that originates at the local level must be solved at the local level.

Current Model Communities projects focus on four activities that can result in marine pollution:

RECREATIONAL BOATING AND MARINA OPERATIONS

Through its Good Mate boating program, The Ocean Conservancy is developing educational and training materials for marina staff and recreational boaters to increase awareness of the potential impacts of everyday boating activities—such as fueling, bilge cleaning, vessel maintenance, and vessel operation—and how to prevent or minimize their adverse effects on the environment.

Good Mate was developed and tested in collaboration with the Pinellas County Departments of Solid Waste and Environmental Management in Florida. It has since been expanded for use throughout

the entire U.S. through partnerships with the U.S. Coast Guard and Coast Guard Auxiliary and into the Caribbean—with projects in Puerto Rico, the U.S. Virgin Islands, and the Bahamas—and Bermuda.

RECREATIONAL AND COMMERCIAL FISHERS

The Ocean Conservancy partnered with Hawai'i Sea Grant to develop its Marine Bounty program,which brought attention to the threats that derelict fishing gear poses to humpback whales, coral reefs, and critically endangered Hawai'ian monk seals. Through this program, fishers and other boaters reported the presence of derelict gear in Hawai'ian waters. Hawai'i Sea Grant removed the gear from harm's way. A second phase of the project is being developed.

Organizers of a newly emerging project in North Carolina will develop a public education campaign for fishermen on piers and docks. The program will focus on improving the handling of bait containers/bags, fishing line, lures, food items, cigarette/cigar filters and packaging, and other waste materials typically found at these sites.

RECREATIONAL BEACH ACTIVITIES

In Piñones, Puerto Rico, community leaders recognized the lack of adequate waste disposal facilities at a popular beach. Through the Model Communities program they introduced solid waste management strategies that reflected local cultural and social conditions. A permanent recycling center now recycles materials from all the communities surrounding the San Juan Bay Estuary.

URBAN AND COASTAL LITTERING

Several Model Communities projects focus on reducing the number one item found at cleanups—cigarette butts.

In Ocean City, New Jersey, organizers conducted a public education campaign encouraging beach users to use several newly installed cigarette receptacles. A second project site in another New Jersey city is being discussed.

In Baton Rouge, Louisiana, project partners developed informational materials explaining the environmental impacts of cigarette litter. The materials were distributed at festivals, public meeting places, and college football tailgate parties.

In Virginia, project organizers will work with coastal businesses such as restaurants and hotels to provide adequate cigarette disposal receptacles and encourage patrons to use them.

APPENDIX 1: State/Territory Sponsors

Alabama

Dolphin Level
- Cellular South

Sea Turtle Level
- Exxon/Mobil Oil
- The Forum

Pelican Level
- Alabama Power Company
- Alabama Power Real Estate
- City of Gulf Shores
- Degussa-Huls
- Mitsubishi Polysilicon
- Shell

Seagull Level
- Phenolchemie

In-Kind Contributors
- ADEMCA Coastal Programs
- ADEM
- Alabama Coastal Foundation
- Baldwin County Commission
- Bebo's Car Wash
- Brita
- Browning Ferris Industries (BFI)
- City of Gulf Shores
- Coca-Cola
- Compass Marketing, Inc.
- Dauphin Island Sea Lab
- Frito-Lay
- Kimberly-Clark Corporation
- Lewis Communications
- Mobile County
- People Against a Littered State (PALS)
- The Ocean Conservancy
- Town of Dauphin Island

Alaska

- Alaska Fly Fishers
- Kenai Fjords Tours
- The Alaska Sea Life Center

American Samoa

- American Samoa Environmental Protection Agency
- American Samoa Power Authority
- Department of Commerce
- School Lunch Program
- T & T Recycling Inc.

Arizona

- Arizona Clean & Beautiful

California

- California Coastal Cleanup Day presented by Brita and the California Coastal Commission
- Oracle Corporation
- See's Candies
- Bank of America
- American Plastics Council
- Universal Studios
- KPMG
- California State Parks Foundation
- Starbucks Coffee Company
- Digitcare Corporation
- Orange Plastics

Media Sponsors

- San Jose Mercury News
- San Francisco Magazine
- KRON TV
- Bay TV/ SF Gate
- KGO Newstalk AM 810
- Contra Costa Newspapers
- Hills Newspapers
- CD93/KMBY
- KTLA-5
- Los Angeles Times
- OC Metro
- The Log

Colorado

- Divers Reef

Connecticut

- Aqua Sports
- Avalonia Land Conservancy
- Boy Scouts and Cub Scouts of America
- Brita
- Connecticut Sea Grant College Program
- Friends of Sherwood Island
- Girl Scouts of America
- Greenwich Clean and Green
- Keep America Beautiful
- Mobil
- Mystic Aquarium
- Save the Sound Inc.
- Sea Keepers
- Sierra Club
- Sound Waters
- Southern Connecticut State University
- Staples
- The New Haven Riverkeeper
- The Maritime Aquarium
- University of Connecticut - Avery Point Dive Team
- Wal-Mart Stores, Inc.

District of Columbia

- The Ocean Conservancy

Florida

- Brita
- Tampa Tube Containers
- Florida Institute of Oceanography

Georgia

- Brita
- Captain Hank Barrett
- Captain Jerry Coleman
- Captain Bob Forseth
- Chatham County-Savannah Metropolitan Planning Commission Water Resources Program
- Clean Coast
- Delegal Creek Marina
- Dr. Mark Lewis
- Georgia Adopt-A-Stream
- Iler Family
- Keep Savannah Beautiful
- Savannah College of Art and Design
- Shellman Bluff Fish Camp
- The Landings on Skidaway Island

Guam

- Maranas Energy Co.
- Underwater World
- Mobil Oil
- Ambros Inc
- MDA
- GTDS
- Professional Sports Divers
- Scuba Company
- Foremost Crystal Clear Drinking Water
- Coca-Cola
- SeaMens Club
- Jeff Pirates Cove
- Gov. Guam
- U.S. Coast Guard
- Team Andersen
- AAA Cellar
- Naval Forces Marianas
- Pacific Sanitation Inc.
- Sorensen Pacific Broadcasting
- PDN
- Trashco
- Guahan Waste Control
- Commercial Sanitation
- Marine Mania
- Fisheye Marine Park
- Sea Walker
- Guam Cell Communication
- Recycling Association of Guam
- Exxon
- CreativiTees
- Bureau of Planning

Hawai'i

- State of Hawai'i-Coastal Zone Management Program/The Office of Planning/Department of Business, Economic Development and Tourism
- The University of Hawai'i Sea Grant College Program (SOEST)
- Hawai'i County Department of Parks and Recreation- Aquatics Division
- Kauai Floatsam & Jetsam Blitz
- United States Coast Guard Marine Safety Office-Honolulu
- Hawai'i State Department of Land and Natural Resources-State Parks
- The City and County of Honolulu Parks and Recreation
- The City and County of Honolulu Public Works
- The County of Kauai, Office of the Mayor
- County of Maui Community Work Day Program

Atlantis Adventures
Waimea Valley Adventure Park
Sea Life Park Hawaii
AT&T
The Brita Products Co.
The Brunswick Marine Co.
The Dow Chemical Foundation
Lucent Technologies Foundation
Royal Caribbean International and Celebrity Cruises
See's Candies, Inc.
U.S. Environmental Protection Agency
Busch Gardens & Sea World Adventure Parks
The Coca-Cola Co.
ITW-Hi-Cone
PACTIV Corp.
Philip Morris USA
The Harry and Grace Steele Foundation

Indiana

BP Amoco
Brita
Mapa Professionals
Target
The Times

Maine

Appletree School
Aucocisco School
Bowdoin Central School Ecology Club
Boys and Girls Club of Portland
Brooksville Elementary School
Brunswick Rotary
Bureau of Parks and Lands
Cathedral School
Conservation Commission
Deer Isle Conservation Commission
Department of Conservation, Bureau of Parks and Lands
Dyer Elementary School, South Portland
Ferry Beach Ecology School
Fort Point State Historic Site
4-H Rainbow Helpers
Friends and Neighbors for Kilkelly
Friends of Casco Bay (FOCB)
Georgetown Conservation Commission
Hurricane Island Outward Bound School
Kennebunk Portside Rotary
Kittery Conservation Commission
Maine Audubon Society
Maine Island Trail Association
Marine Environmental Research Institute
Mary E. Taylor Middle School
Midcoast Audubon
Mountain View School
Mt. Desert Elementary School
Peaks Island Elementary School
Pentucket Regional Middle School, West Newbury, MA
Plummer Motz School
Scarborough Middle School
7th Grade, Kennebunk Middle School
St. George School
St. James School of Biddeford
St. Mary the Virgin Church
Troy Howard Middle School
U.S. Coast Guard
Wells National Estuarine Research Reserve
Woodland High School
Work Opportunities Unlimited
Yarmouth Elementary School
York Recycle Committee

Maryland

American Lung Association of Maryland
Assateague Coastal Trust
Assateague Island National Seashore-NPS
Assateague Mobile Sportsfishermen's Association
Browning-Ferris Industries
Chamber of Commerce-Chincoteague Island
Chincoteague NWR-USF&WS
Chincoteague Volunteer Fire Department
County of Accomack
Cat Country 97.5 & 105.9 FM
Conectiv
Delmarva Broadcasting Co.
Delaware Chapter, Surfrider Association
DE Department of Natural Resources & Environmental Control
MD Department of Natural Resources
Nanticoke Watershed Alliance
Nassawango Creek Stewardship Committee-The Nature Conservancy
Ocean City Dune Patrol
Playtex Family Products
Pocomoke River Canoe Co.
Salisbury Zoo
Soroptimist International of Talbot County
The Nature Conservancy of NJ, DE Bayshores Office
The Ocean Conservancy
Town of Chincoteague
U.S. Coast Guard Group Eastern Shore
Virginia Department of Conservation and Recreation
Wallops Flight Facility
West Marine-Kent Island/Easton

Massachusetts

Fleet
Greater Boston Radio Group
Massachusetts Bay Transit Authority
Massachusetts Department of Environmental Management
Massachusetts Executive Office of Environmental Affairs
Massachusetts Office of Coastal Zone Management
Metropolitan District Commission
Museum of Fine Arts-Boston
National Oceanic and Atmosphere Administration
New England Aquarium
Quest Diagnostics
The Ocean Conservancy
Tronex Healthcare Industries
Urban Harbors Institute at the University of Massachusetts, Boston
WBOS Radio

Michigan

Clean Water Action
Community Foundation for Muskegon County
Emmet Conservation District
Friends of Jordan
Greater Holland United Way and Volunteer Center
Inland Seas Education
ITW Hi-Cone Foundation
Lake Michigan Federation
L.C. and Margaret Walker Foundation
Michigan Coastal Management Program
Muskegon Conservation District
Spirit of the Woods Conservation District
Tri-Cities Volunteer Center
United Way and Volunteer Center of Allegan County
U.S. Coast Guard

Minnesota

Clean Water Action
Duluth Seaway Port Authority
Great Lakes Aquarium
Innerspace Scuba Center
Inter City Oil
L&M Towing
Lakehead Pipeline Inc.
Lake Superior Magazine
Lake Superior Warehousing Company, Inc.
Lincoln Park School
Minnesota Power
Minnesota Sea Grant
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Montana

Mrs J's Scuba

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Hershey 6th Grade
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Keep Creighton Beautiful
Keep North Platte and Lincoln County Beautiful
Keep Scottsbluff/Gering Beautiful
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Lincoln County Wildlife Club
Natural Resource Districts
Youth for Environmental Success

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NH Parks Department
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Buffalo State College
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Coalition to Save Hempstead Harbor
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Cortland Co. Water Quality Coordinating Committee
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Doug Stellic & Al George
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Eastman Kodak
Eckerd Drugs
Educators for Gateway
Elegante Restaurant
Fair Haven Beach State Park

Fire Island National Seashore
Fire Island Year Round Association
Fort Hamilton High School
4-H Clubs
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Friends of Sandy Pond Beach
Friends of Sterling Nature Center
Friends of the Bay
Friends of the Harbor
Gateway National Recreation Area
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Great Lakes Beach Sweep
Gus's Restaurant
Harding Park Homeowners Association
Hard Rock Café
Haverstraw Middle School
Heron Point Condo
High School for Environmental Studies
Hither Hills State Park
Holiday Inn of Cortland
Homer High School
Homer Fire Department
Hudson River National Estuarine Research Reserve
Hudson River Park Trust
Hudson Valley Productions
Indian Ladder Farms
Irvington High School
Jamaica Bay Eco Watchers
JB Thacher State Park
Jones Beach State Park
Keep Islip Clean
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Liz Claiborne
Local Involvement for Environment
Locust Valley Middle and High School
Lomma Construction Corporation
Long Island City Community Gardens
Long Island Divers Association
Long Island Shore and Beach Preservation Associaton
Long Island Sound Study
Long Island Treasure Hunters' Club
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Manhasset Bay Protection Committee
McDonald's
McGraw High School
Metropolitan Waterfront Alliance
Monroe County Parks Department, Charlotte Beach Crew
Montauk Chamber of Commerce
Montauk Point State Park
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New York City Partnership for Parks
NYC School of the Future
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New York State Parks
New York State Police
New York State Police Scuba Team
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Sound Beach Property Owners Association
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Staten Island Greens
Staten Island Zoo
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Suffolk County Legislature
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The ALPS
The Floating Hospital
The Nature Conservancy
The NPD Group
The Scuba Sports Club
The Siegle Family
Time's Up!
Town of Irondequoit
Trout Unlimited
US Coast Guard
Village of Homer
Ward Melville Heritage Organization
Wendy's
Western Finger Lakes Solid Waste Management Authority
West Irondequoit Central School District
Westchester County Parks
Western Suffolk Greens
Wildwood State Park
Yonkers Paddling & Rowing Club

Ohio

Aqua Amigos Scuba Club
AquaMasters, Inc.
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City of Euclid, Ohio-Parks and Recreation Department
City of Mentor, Ohio
City of Toledo, Ohio
Friends of Arcola Creek
Friends of Magee Marsh
Friends of Maumee Bay
Harbor High School
Harvey High School Ecology Club
Keep Mentor Beautiful
MAPA Pioneer
Metropolitan Park District of the Toledo Area
New Wave Dive Shop
Ohio Department of Natural Resources:
-Division of Natural Areas and Preserves
-Division of Wildlife

-Division of Parks and Recreation
-Division of Watercraft
Ohio Environmental Protection Agency
Ohio Environmental Protection Agency, N.W. District
Ohio Department of Health
Ottawa County Recycling and Litter Prevention
Pepsi-Cola
Sam Wharram Nature Club
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The Ohio Lake Erie Commission
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U.S. Coast Guard
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WCBD Channel 2
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South Dakota

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Scuba Supply

Texas

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Kroger Grocery
Linda's Bait Camp
Lower Colorado River Authority
M & T Country Store
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Quintana Town Council
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Sargent Area Chamber of Commerce
Sargent Area Volunteer Fire Department
Sargent County Store
Sargent Food Bank
Sargent News/Sargent Garbage
Save Our Beach Association
SBPOA
Scenic Galveston Inc.
Sea Baggers
Seabreeze Restaurant
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South Padre Island Convention Center
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Texas State Technical College—Harlingen
The Scow Schooner Project
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Triangle Turf
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Valley Coca-Cola Company, Inc.
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U.S. Virgin Islands

Ace Hardware/Sea Chest
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Coca Cola Bottling Company
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Cost-U-Less
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STIXX
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Kiptopeke State Park
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Lebanon Community Corrections
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Little Island City Park
Long's Outfitters
Longwood College of Farmville
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Lynnhaven Dive Center
Madison County Task Force of Sustainable Growth
Marion Downtown Committee
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Radford University
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Rappahannock Outdoor Education Center
Red Bank Yacht Basin
Riverwalk Group of Marion
Roanoke County Admin. Center
Rocco Inc. Ambassadors
Retired Senior Volunteer Program-Northern VA Senior Environmental Corps (RSVP/NVSEC)
Shenandoah River Outfitters, Inc.
Shenandoah River State park
Smith Mountain Lake State Park
Stickleyville School
Tire Distributors
Town of Shenandoah
U.S. Army Garrison, Fort Belvoir
U.S. Coast Guard Headquarters
U.S. Navy
VA Beach Department of Parks & Recreation
VA Cooperative Extension
VA Department of Conservation & Recreation
VA Department of Environmental Quality
Virginia Beach Hammerheads
Virginia Explore Park
Virginia Litter Prevention & Recycling Grant
Virginia Museum of Natural History at VA Tech
Walker Nature Education Center
Ware River Yacht Club
Washington Area Parrot Head Club
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Wild River Outfitters of VA Beach
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Washington

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PADI Project AWARE
Mike's Espresso
Naval Station Bremerton
Sea Grant Washington
Scott McLendon's True Value Hardware
Silverdale Target
Sinclair Inlet
Washington Scuba Alliance

Wisconsin

PADI

APPENDIX 1: United States Raw Data Summary

DEBRIS ITEM	Alabama	Alaska	American Samoa	Arizona	California	Colorado	Com. N. Mariana Islands	Connecticut	Delaware	District of Columbia	Florida
PLASTIC											
food bags/wrappers	7,980	423	702	770	67,054	56	55	1,928	46	379	46,413
salt bag	63	2	86	10	715	0	0	66	0	1	544
trash bags	1,538	55	476	478	14,051	6	7	486	15	162	8,002
other plastic bags	2,526	124	376	303	11,706	4	37	465	17	70	12,199
beverage bottles	7,580	380	955	743	16,561	72	32	580	40	545	28,147
bleach, cleaner bottles	244	16	302	10	642	0	0	26	5	3	968
milk/water gallon jugs	1,112	20	230	136	2,352	1	2	76	12	152	4,421
oil, lube bottles	872	64	91	71	1,272	1	1	23	3	24	1,993
other plastic bottles	1,622	86	304	263	5,367	6	7	144	6	267	9,793
buckets	342	6	119	11	960	0	0	23	0	5	1,502
caps, lids	9,392	266	625	747	47,832	25	5	1,240	33	213	49,118
cigarette butts	37,713	1,042	979	2,433	229,928	68	3	5,904	123	179	218,612
cigarette lighters	675	45	101	63	2,839	2	1	61	1	6	4,219
cups, utensils	3,132	106	456	400	14,384	18	6	584	16	71	17,809
diapers	203	11	228	40	767	1	0	17	3	69	899
fishing line	1,057	534	39	55	3,768	68	16	139	9	63	5,882
fishing lures, floats	640	265	51	33	1,261	29	2	37	12	11	2,988
fishing nets	226	21	40	5	682	0	0	35	0	14	1,412
hard hats	11	0	20	53	114	0	0	0	0	0	89
light sticks	505	3	114	16	1,312	0	0	8	5	0	2,429
plastic pieces	11,185	182	806	515	78,362	9	139	1,960	101	151	58,802
pipe thread protector	123	1	15	14	567	0	0	11	0	0	678
rope	1,717	110	131	40	7,223	11	29	149	23	4	9,470
sheeting longer than 2 ft	148	6	62	8	495	0	3	35	2	0	415
sheeting 2 ft or shorter	345	10	38	3	1,091	11	0	46	0	1	1,146
six-pack holders	889	30	525	110	2,112	3	6	23	2	10	2,399
strapping bands	645	45	162	6	3,612	1	3	77	1	2	3,156
straws	4,403	86	292	275	33,512	5	5	930	26	28	30,720
syringes	72	0	11	3	691	0	0	20	0	4	415
tampon applicators	124	14	23	10	937	0	0	15	4	7	901
toys	905	10	229	27	3,437	1	1	99	5	16	3,335
vegetable sacks	307	12	97	36	1,643	1	0	38	2	3	1,106
"write protection" rings	217	0	18	23	1,157	0	0	30	2	6	1,541
other plastic items	1,580	67	150	78	20,141	11	14	483	12	70	11,514
FOAMED PLASTIC											
buoys	611	79	84	38	1,452	4	29	86	2	5	2,800
cups	4,682	210	630	553	17,496	10	97	440	16	170	22,142
egg cartons	159	6	189	6	527	0	1	7	2	18	780
fast food containers	1,566	93	175	249	5,384	0	4	149	12	103	6,322
meat trays	482	19	69	31	1,386	0	38	26	11	11	1,468
packaging material	1,531	76	171	99	19,460	3	0	488	5	65	9,342
foamed plastic pieces	8,717	387	979	171	84,256	13	108	1,178	6	188	45,825
plates	1,249	31	556	176	3,156	1	59	67	7	68	3,907

GLASS											
beverage bottles	6,956	485	774	2,288	19,969	21	76	625	35	693	47,694
food jars	429	20	265	73	1,301	6	0	51	5	38	2,325
other glass bottles/jars	804	24	435	148	2,363	16	0	64	11	182	4,443
fluorescent light tubes	88	0	32	21	199	0	0	9	0	3	384
light bulbs	239	1	72	2	408	0	0	7	0	7	716
glass pieces	6,420	300	578	680	54,296	323	250	1,115	40	130	17,666
other glass items	150	71	91	153	3,164	0	4	96	0	2	1,529
RUBBER											
balloons	1,290	5	131	94	6,857	0	0	200	15	2	5,505
condoms	285	5	55	14	1,829	0	0	23	2	12	1,406
gloves	423	18	105	12	3,457	0	9	26	3	5	2,358
tires	412	25	81	26	1,422	0	9	16	0	4	1,318
other rubber items	1,530	111	229	67	8,261	3	27	311	0	25	5,326
METAL											
bottle caps	4,330	243	891	621	20,997	13	18	551	15	302	34,469
aerosol cans	360	33	163	21	907	0	0	46	5	25	1,589
beverage cans	8,405	644	1,270	5,436	15,119	168	1,006	541	130	454	36,025
food cans	530	37	230	116	1,696	26	26	35	3	18	2,164
other cans	259	194	219	65	1,260	14	0	14	0	13	1,549
crab/lobster traps	136	0	16	1	170	0	0	4	1	2	316
55 gallon drum - rusty	38	15	115	38	597	0	0	3	0	11	202
55 gallon drum - new	7	0	20	0	76	0	0	0	0	8	47
metal pieces	1,612	354	199	141	6,976	8	77	209	0	39	5,574
pull tabs	1,617	62	49	354	3,470	5	0	100	11	21	4,908
wire	552	55	157	42	3,526	2	6	37	0	10	2,017
other metal items	1,431	98	143	150	26,486	16	39	150	0	5	4,864
PAPER											
paper bags	1,604	85	432	499	7,949	0	0	151	1	65	7,033
cardboard	1,365	61	163	205	5,236	6	78	63	22	40	4,773
cartons	927	21	306	172	3,072	3	27	91	0	130	3,646
cups	1,859	181	378	408	7,116	6	9	277	5	113	7,377
newspapers/magazines	682	25	287	158	6,552	0	1	148	8	11	3,929
paper pieces	6,227	357	247	1,206	70,633	10	72	1,135	20	105	33,717
plates	645	64	390	257	2,479	8	0	160	10	24	2,271
other paper items	1,613	40	71	391	12,298	2	1	328	9	16	5,500
WOOD											
crab/lobster traps	48	0	31	0	226	0	0	13	0	0	319
crates	60	6	38	1	244	0	0	21	0	0	272
pallets	90	33	82	15	1,035	0	0	20	0	0	837
other wood items	3,531	122	620	177	11,790	3	5	255	9	24	14,208
lumber pieces	745	27	141	53	7,092	1	10	210	6	0	3,868
CLOTH											
clothing/pieces	1,667	96	283	381	9,480	12	24	176	14	31	8,400
TOTAL BY ZONE	178,908	8,871	21,553	23,670	1,051,495	1,122	2,484	25,562	971	5,763	920,582

APPENDIX 1: United States Raw Data Summary

DEBRIS ITEM	Georgia	Guam	Hawaii	Idaho	Illinois	Indiana	Iowa	Louisiana	Maine	Maryland	Massachusetts	Michigan
PLASTIC												
food bags/wrappers	273	4,446	6,698	0	2,943	648	47	2,760	5,005	1,490	12,226	4,865
salt bag	7	46	72	0	12	1	0	70	54	1	103	7
trash bags	91	1,236	1,451	10	252	60	16	810	589	456	1,731	363
other plastic bags	77	1,330	1,851	20	506	127	0	920	1,121	431	2,755	986
beverage bottles	838	2,698	3,703	4	816	184	209	3,400	2,018	881	3,622	1,375
bleach, cleaner bottles	93	244	332	0	11	4	0	325	248	13	277	62
milk/water gallon jugs	123	392	524	0	65	27	11	1,335	366	114	660	155
oil, lube bottles	102	218	260	0	17	8	3	385	570	64	183	69
other plastic bottles	245	1,164	1,447	0	241	23	28	1,028	510	271	1,188	533
buckets	34	110	233	4	22	41	3	213	148	32	202	75
caps, lids	243	3,730	6,383	0	3,566	1,155	35	3,293	2,764	1,307	9,781	5,979
cigarette butts	310	11,228	31,022	80	28,235	5,356	20	7,305	26,547	3,740	49,194	34,912
cigarette lighters	39	382	802	0	154	40	13	357	230	76	555	203
cups, utensils	188	3,036	2,806	0	1,047	221	6	1,597	956	554	4,088	1,244
diapers	18	668	379	0	88	34	0	183	24	25	196	158
fishing line	57	206	2,307	2	72	33	7	390	360	311	1,308	260
fishing lures, floats	49	154	1,367	0	93	24	16	294	217	122	443	201
fishing nets	12	198	741	0	21	7	1	142	554	48	916	185
hard hats	1	32	13	0	13	0	0	36	31	1	17	0
light sticks	9	84	599	0	104	12	0	716	73	11	149	117
plastic pieces	1,141	6,408	14,358	0	6,395	1,388	6	3,852	4,420	1,319	11,586	12,298
pipe thread protector	6	172	257	0	26	5	0	57	128	6	105	62
rope	162	672	3,272	0	166	66	7	1,497	5,008	236	8,216	339
sheeting longer than 2 ft	5	72	116	0	13	1	0	63	102	23	177	185
sheeting 2 ft or shorter	12	258	149	0	18	3	0	130	178	41	337	116
six-pack holders	34	1,130	427	0	116	19	3	300	122	82	366	141
strapping bands	23	308	487	0	283	39	3	274	891	62	1,190	441
straws	70	1,748	2,502	0	2,810	665	4	1,398	985	843	7,425	4,137
syringes	1	36	76	0	23	2	0	52	11	17	160	108
tampon applicators	14	64	126	0	113	82	1	90	238	39	1,422	311
toys	42	464	643	0	260	91	2	220	331	144	913	489
vegetable sacks	6	152	321	0	51	5	23	115	116	53	315	83
"write protection" rings	2	144	138	0	107	71	0	136	123	49	249	113
other plastic items	154	1,940	5,448	4	1,131	491	10	826	2,357	230	3,619	3,094
FOAMED PLASTIC												
buoys	110	202	2,578	0	6	4	1	146	1,229	44	828	26
cups	143	3,034	2,545	0	625	184	31	1,842	1,536	615	3,269	960
egg cartons	52	95	144	0	12	0	2	305	25	10	72	18
fast food containers	69	936	1,570	0	153	24	30	801	334	141	888	244
meat trays	88	398	720	0	22	16	0	436	81	44	156	61
packaging material	93	804	1,367	0	335	36	5	825	858	372	1,323	453
foamed plastic pieces	1,798	2,116	8,459	0	3,139	586	3	3,174	5,455	1,040	7,924	3,105
plates	142	3,016	1,213	0	158	68	5	729	95	70	568	364
other foamed plastic items	102	756	1,220	0	239	13	0	302	448	112	731	313
GLASS												

foamed plastic pieces												
plates	142	3,016	1,213	0	158	68	5	729	95	70	568	364
other foamed plastic items	102	756	1,220	0	239	13	0	302	448	112	731	313
GLASS												
beverage bottles	333	5,074	8,441	60	2,132	404	47	2,864	1,316	922	3,215	1,143
food jars	32	390	627	0	42	6	8	352	150	33	233	62
other glass bottles/jars	63	572	776	0	144	23	20	567	437	97	502	126
fluorescent light tubes	9	64	65	0	18	1	0	152	6	4	27	2
light bulbs	56	110	71	0	23	3	0	290	52	5	64	8
glass pieces	187	4,408	10,286	0	17,402	943	1	1,473	4,987	424	5,888	4,458
other glass items	14	968	851	0	72	63	51	80	234	6	242	176
RUBBER												
balloons	89	288	861	0	863	450	0	201	394	532	2,881	2,871
condoms	2	96	166	0	51	9	0	85	97	15	266	99
gloves	15	158	319	0	75	8	0	667	857	37	709	209
tires	44	257	357	4	45	13	5	138	158	25	180	88
other rubber items	65	1,190	1,823	6	257	100	5	353	3,094	53	2,333	448
METAL												
bottle caps	73	2,756	4,522	1	3,052	518	2	1,954	960	732	3,723	2,275
aerosol cans	72	836	329	4	21	27	0	328	106	24	140	65
beverage cans	834	17,498	5,978	100	1,774	456	241	3,382	1,517	1,119	4,813	1,013
food cans	63	835	422	0	145	18	0	288	149	76	209	91
other cans	39	292	309	0	54	41	0	163	106	44	167	96
crab/lobster traps	24	0	36	0	7	0	0	24	293	17	333	0
55 gallon drum - rusty	0	70	52	0	32	5	10	45	43	6	77	25
55 gallon drum - new	0	6	2	0	2	0	0	9	4	0	40	0
metal pieces	96	1,170	1,387	0	951	153	0	531	912	226	1,547	793
pull tabs	154	1,225	1,112	0	542	234	0	660	174	97	765	372
wire	47	792	580	1	152	48	0	180	225	39	582	190
other metal items	68	912	2,506	52	434	189	4	482	1,170	82	1,340	1,441
PAPER												
paper bags	26	776	1,233	0	217	81	21	822	274	207	1,315	768
cardboard	23	818	782	0	136	92	10	527	338	94	1,193	465
cartons	37	920	763	0	150	37	1	454	289	108	789	224
cups	80	904	1,386	0	205	61	23	961	414	265	1,583	477
newspapers/magazines	42	316	836	0	232	36	8	266	216	143	724	173
paper pieces	375	7,001	7,543	0	3,036	498	0	2,587	3,020	739	7,910	4,025
plates	13	964	711	0	84	26	6	457	141	74	449	142
other paper items	41	744	3,330	2	439	163	7	362	767	191	1,765	1,705
WOOD												
crab/lobster traps	28	4	33	0	5	0	0	28	93	6	162	8
crates	2	24	40	0	13	2	0	54	28	5	60	3
pallets	4	60	81	0	236	2	0	42	126	7	167	21
other wood items	20	726	859	0	711	84	0	188	572	46	1,703	365
lumber pieces	72	470	986	0	1,057	104	3	1,092	1,454	237	2,560	566
CLOTH												
clothing/pieces	104	1,234	1,573	4	531	196	8	814	856	226	2,226	1,039
TOTAL BY ZONE	10,324	111,455	173,160	358	89,821	16,958	1,032	67,051	93,485	22,503	194,315	105,242

APPENDIX 1: United States Raw Data Summary

DEBRIS ITEM	Minnesota	Mississippi	Missouri	Montana	Nebraska	New Hampshire	New Jersey	New York	North Carolina	North Dakota	Ohio	Oklahoma
PLASTIC												
food bags/wrappers	705	6,612	1,182	24	473	2,528	11,899	23,970	19,026	0	2,009	36
salt bag	0	59	13	0	15	6	124	166	161	0	5	0
trash bags	59	1,924	494	0	88	124	2,513	4,177	4,040	0	178	2
other plastic bags	89	2,273	650	0	112	449	2,338	6,412	4,498	0	409	9
beverage bottles	219	3,852	1,056	30	240	789	5,008	15,210	20,966	100	1,098	53
bleach, cleaner bottles	2	145	31	0	4	13	143	585	558	0	28	0
milk/water gallon jugs	6	599	213	2	19	56	603	1,663	2,187	0	117	0
oil, lube bottles	1	237	107	0	15	24	215	869	1,623	0	90	0
other plastic bottles	30	979	351	53	17	137	1,607	3,506	3,261	0	201	0
buckets	7	219	92	2	7	25	165	548	668	0	48	0
caps, lids	306	5,849	944	19	260	1,043	18,441	21,551	11,263	0	1,975	15
cigarette butts	1,817	32,691	2,875	38	1,484	9,641	27,861	44,604	76,057	0	2,605	0
cigarette lighters	9	489	155	2	37	67	698	1,702	926	0	193	11
cups, utensils	167	2,750	412	13	76	491	6,033	9,574	5,227	0	1,024	26
diapers	54	171	94	0	23	12	133	388	811	0	22	4
fishing line	37	547	424	9	45	471	846	2,182	1,965	0	69	0
fishing lures, floats	33	335	282	15	8	66	537	1,110	1,248	0	38	3
fishing nets	1	169	36	1	0	109	148	394	583	0	8	0
hard hats	0	24	24	0	0	2	14	50	19	0	0	0
light sticks	1	424	11	0	3	22	324	680	465	0	49	0
plastic pieces	540	7,468	924	27	264	2,844	11,081	22,411	16,581	0	2,563	15
pipe thread protector	0	138	18	0	0	12	99	215	217	0	24	0
rope	42	744	74	0	16	4,044	1,367	3,254	1,847	0	84	0
sheeting longer than 2 ft	15	66	15	1	0	7	67	296	277	0	45	0
sheeting 2 ft or shorter	18	148	75	0	0	23	117	586	251	0	30	0
six-pack holders	10	965	48	3	38	30	355	1,136	1,682	0	85	0
strapping bands	36	339	47	0	7	433	604	1,372	724	0	71	0
straws	297	4,171	345	3	161	540	15,845	16,479	4,855	0	1,285	14
syringes	1	59	12	0	0	6	200	393	179	0	23	0
tampon applicators	11	96	35	0	3	53	1,607	2,463	327	0	358	0
toys	42	304	152	3	3	99	1,178	1,887	1,676	0	210	0
vegetable sacks	2	180	31	0	3	27	187	280	313	0	11	1
"write protection" rings	0	191	20	2	1	11	379	452	167	0	59	0
other plastic items	173	1,789	538	9	66	618	2,656	7,409	4,153	0	1,076	24
FOAMED PLASTIC												
buoys	0	221	122	0	0	162	244	1,377	487	0	8	0
cups	168	3,283	905	8	244	414	3,011	9,092	10,011	0	891	13
egg cartons	2	114	44	0	3	10	96	141	369	0	16	0
fast food containers	22	1,037	285	0	86	103	516	2,490	2,810	0	244	0
meat trays	7	284	48	0	17	30	165	446	895	0	39	0
packaging material	70	1,160	268	3	53	488	1,602	3,257	4,308	0	358	0
foamed plastic pieces	567	7,561	840	11	140	2,107	6,661	18,324	9,886	0	1,029	101
plates	6	729	125	1	42	37	357	1,736	1,713	0	167	0
other foamed plastic items	29	586	337	0	35	155	1,000	2,382	1,322	0	122	5

packaging material	76	1,100	288	3	33	188	1,002	3,287	1,988	0	338	8
foamed plastic pieces	567	7,561	840	11	140	2,107	6,661	18,324	9,886	0	1,029	101
plates	6	729	125	1	42	37	357	1,736	1,713	0	167	0
other foamed plastic items	29	586	337	0	35	155	1,000	2,382	1,322	0	122	5
GLASS												
beverage bottles	165	5,712	2,653	92	626	1,087	3,454	10,267	19,633	200	1,232	212
food jars	0	333	163	3	26	46	413	"1,091	"1,521	0	50	1
other glass bottles/jars	8	530	303	2	71	92	326	"1,285	"3,226	0	139	3
fluorescent light tubes	0	25	24	0	0	0	49	41	212	0	0	0
light bulbs	0	198	43	0	7	2	100	235	316	0	12	0
glass pieces	282	13,636	641	0	332	2,509	2,025	20,149	10,144	0	1,285	55
other glass items	11	268	58	1	16	54	222	2,156	834	0	124	4
RUBBER												
balloons	29	489	49	0	1	264	2,479	5,099	2,143	0	210	0
condoms	0	264	47	0	104	22	234	958	823	0	43	0
gloves	6	618	73	0	7	217	215	962	740	0	37	0
tires	18	281	79	20	19	67	92	720	1,531	0	65	1
other rubber items	21	698	142	25	19	1,301	819	2,180	1,596	4	211	9
METAL												
bottle caps	59	5,362	721	3	500	552	2,834	10,056	7,499	0	352	21
aerosol cans	2	105	143	1	5	20	162	873	1,847	0	289	0
beverage cans	414	4,054	3,004	418	1,032	1,911	3,311	10,004	18,848	100	2,118	528
food cans	60	278	152	49	27	28	227	938	"2,510	0	56	3
other cans	44	160	95	1	12	36	76	575	1,688	0	92	2
crab/lobster traps	0	68	20	0	2	300	33	111	80	0	1	0
55 gallon drum - rusty	3	42	42	1	5	9	44	198	228	0	15	0
55 gallon drum - new	0	15	20	0	0	0	9	9	36	0	0	0
metal pieces	124	1,028	234	23	89	483	543	3,895	3,225	0	273	7
pull tabs	26	1,988	136	10	159	117	277	1,511	3,509	0	72	0
wire	42	522	84	19	17	141	334	962	989	0	60	0
other metal items	91	794	550	3	89	453	730	3,861	2,905	2	261	15
PAPER												
paper bags	54	1,367	360	2	45	312	1,217	2,863	4,243	0	236	0
cardboard	24	1,271	180	6	100	181	552	1,963	3,079	0	143	0
cartons	62	709	201	1	42	173	431	1,575	1,642	0	108	0
cups	67	1,348	424	4	80	167	1,419	3,370	5,818	0	352	0
newspapers/magazines	10	566	109	0	31	101	1,020	1,590	2,435	0	112	0
paper pieces	495	7,002	895	43	468	1,861	5,388	12,720	13,332	0	1,287	12
plates	22	348	95	1	49	66	481	1,482	1,573	0	45	1
other paper items	142	2,112	234	2	93	732	1,342	"3,681	1,990	0	250	6
WOOD												
crab/lobster traps	0	41	10	0	0	78	74	103	38	0	0	0
crates	0	42	11	0	0	6	82	91	147	0	5	0
pallets	6	78	29	0	3	22	97	360	230	0	15	0
other wood items	125	1,165	40	0	9	244	984	2,213	4,857	0	85	0
lumber pieces	36	2,656	457	4	55	557	2,920	5,339	5,540	0	233	0
CLOTH												
clothing/pieces	118	1,179	228	11	30	657	1,116	3,936	4,074	0	321	9
TOTAL BY ZONE	8,167	149,333	27,503	1,024	8,278	43,196	165,175	356,641	355,683	406	29,153	1,221

APPENDIX 1: United States Raw Data Summary

DEBRIS ITEM	Oregon	Pennsylvania	Rhode Island	South Carolina	South Dakota	Texas	US Virgin Islands	Virginia	Washington	Wisconsin	Totals
PLASTIC											
food bags/wrappers	5,059	1,109	7,384	6,718	15	18,942	1,010	5,904	1,702	773	284,287
salt bag	13	4	49	39	0	536	0	37	108	38	3,233
trash bags	803	93	1,005	979	10	5,467	162	1,357	499	236	56,551
other plastic bags	975	221	1,652	1,212	10	7,516	466	1,744	615	156	69,757
beverage bottles	1,370	712	2,859	3,985	5	8,997	715	6,386	792	304	150,129
bleach, cleaner bottles	67	56	340	62	0	837	23	143	57	10	6,929
milk/water gallon jugs	172	77	790	423	2	2,946	125	641	177	64	23,168
oil, lube bottles	69	62	372	168	0	894	76	514	80	15	11,725
other plastic bottles	451	174	916	825	0	3,812	143	"1,050	535	128	42,719
buckets	61	25	242	123	0	652	14	201	40	59	7,283
caps, lids	3,211	697	5,638	4,337	30	24,262	1,090	3,997	1,065	1,528	255,253
cigarette butts	14,962	2,559	17,739	42,995	100	40,412	787	8,124	1,817	3,202	1,027,303
cigarette lighters	233	54	537	577	2	2,573	49	417	66	95	19,756
cups, utensils	718	252	2,320	2,558	10	6,554	1,625	2,474	358	201	95,588
diapers	104	29	268	76	4	990	97	178	62	31	7,562
fishing line	564	176	770	472	20	4,201	32	594	131	23	30,521
fishing lures, floats	331	89	273	301	2	1,475	4	381	77	25	14,942
fishing nets	164	14	155	96	0	1,078	63	106	125	96	8,606
hard hats	1	0	3	4	0	166	0	4	11	1	754
light sticks	107	9	169	218	0	2,227	8	52	68	16	11,119
plastic pieces	8,126	1,065	8,012	5,074	0	27,030	899	4,433	817	1,827	337,384
pipe thread protector	77	3	30	58	0	527	6	442	33	18	4,150
rope	3,246	36	"1,982	815	0	14,312	505	902	993	45	72,856
sheeting longer than 2 ft	29	25	80	42	0	510	13	111	133	2	3,665
sheeting 2 ft or shorter	112	34	156	91	0	1,009	26	247	186	6	7,048
six-pack holders	107	6	239	173	12	1,624	68	270	150	7	15,857
strapping bands	554	33	520	249	0	1,724	93	145	306	51	19,019
straws	1,151	340	4,573	3,958	0	9,558	853	3,037	529	776	161,639
syringes	48	10	60	20	0	407	10	58	3	35	3,226
tampon applicators	103	45	421	63	0	665	23	106	36	36	10,986
toys	375	116	459	562	3	1,777	29	491	72	143	21,245
vegetable sacks	123	15	181	101	0	752	11	144	239	13	7,099
"write protection" rings	49	8	191	104	0	714	11	78	59	26	6,648
other plastic items	1,414	342	1,536	2,195	0	3,992	195	1,116	679	628	84,032
FOAMED PLASTIC											
buoys	214	18	529	396	0	604	20	216	145	26	15,153
cups	985	455	2,120	2,410	5	6,954	581	4,202	423	297	107,702
egg cartons	19	8	140	89	0	792	7	46	22	25	4,373
fast food containers	408	75	464	894	20	2,164	311	757	319	60	32,312
meat trays	181	16	212	235	0	952	15	140	73	20	9,338
packaging material	1,510	234	780	1,028	0	2,479	185	1,191	128	117	56,930
foamed plastic pieces	8,767	674	3,703	9,150	0	12,762	603	5,315	508	1,609	268,945
plates	121	57	262	428	10	2,562	342	438	125	58	25,021
other foamed plastic items	535	78	613	876	0	1,289	99	214	110	195	29,173
GLASS											

packaging material	1,516	254	780	1,028	0	2,479	183	1,191	128	137	98,230
foamed plastic pieces	8,767	674	3,703	9,150	0	12,762	603	5,315	508	1,609	268,945
plates	121	57	262	428	10	2,562	342	438	125	58	25,021
other foamed plastic items	535	78	613	876	0	1,289	99	214	110	195	29,173
GLASS											
beverage bottles	1,509	510	2,434	4,174	4	8,254	1,593	6,186	949	526	177,039
food jars	86	61	183	257	10	891	16	685	69	29	12,382
other glass bottles/jars	163	83	409	345	2	1,332	67	555	127	39	20,924
fluorescent light tubes	12	3	44	14	0	236	2	26	2	0	1,774
light bulbs	35	38	27	107	0	410	5	162	34	14	3,879
glass pieces	2,314	202	3,275	2,198	0	13,125	658	3,325	407	714	209,531
other glass items	149	12	323	237	0	544	91	83	118	53	13,375
RUBBER											
balloons	362	84	1,322	772	0	2,397	64	1,129	50	183	40,655
condoms	109	10	152	80	0	779	89	151	14	32	8,428
gloves	228	50	297	287	0	3,095	111	121	62	94	16,690
tires	81	103	119	122	2	445	16	550	51	21	9,030
other rubber items	678	93	481	678	0	2,129	86	535	62	163	37,547
METAL											
bottle caps	1,202	146	2,183	2,629	20	8,780	930	2,857	441	236	130,401
aerosol cans	74	93	189	123	5	618	84	382	46	14	10,176
beverage cans	1,512	547	3,358	5,300	100	12,461	489	5,367	1,085	410	184,294
food cans	115	72	268	311	10	710	40	403	123	76	13,633
other cans	79	49	115	323	0	521	19	149	8	22	8,964
crab/lobster traps	43	1	57	30	0	100	2	18	0	2	2,248
55 gallon drum - rusty	43	5	23	19	0	311	8	40	14	32	2,466
55 gallon drum - new	3	1	1	2	0	57	7	1	2	0	384
metal pieces	499	202	827	723	0	2,084	174	628	70	96	38,182
pull tabs	266	67	268	587	0	1,679	51	334	60	20	27,069
wire	242	50	208	216	10	1,259	140	179	77	23	14,814
other metal items	1,354	209	1,553	800	0	2,182	214	547	119	56	58,850
PAPER											
paper bags	372	71	833	849	4	2,273	257	614	511	51	40,093
cardboard	414	62	633	896	10	1,579	207	464	301	98	28,653
cartons	181	62	578	382	0	1,486	96	374	189	26	20,485
cups	406	142	1,030	985	20	2,384	253	1,042	338	57	43,794
newspapers/magazines	758	45	366	409	0	867	82	154	157	59	23,664
paper pieces	3,238	583	3,252	5,635	0	8,253	718	2,114	696	801	219,256
plates	100	17	340	343	0	1,288	244	349	133	13	16,365
other paper items	748	111	641	1,757	0	2,014	122	402	1,473	152	47,789
WOOD											
crab/lobster traps	13	0	103	16	0	267	0	17	10	7	1,781
crates	25	3	28	35	0	220	3	19	22	7	1,619
pallets	79	5	62	51	0	520	10	39	35	27	4,526
other wood items	1,163	58	1,235	2,212	10	6,575	272	1,623	381	178	70,849
lumber pieces	379	17	473	1,129	0	2,309	56	350	227	123	32,212
CLOTH											
clothing/pieces	940	142	928	1,085	0	4,074	199	678	265	105	49,470
TOTAL BY ZONE	77,663	14,114	99,362	131,297	467	328,204	18,869	91,055	23,201	17,580	5,074,277