



Summary Report
Illinois

2004 State Coordinator: Stephanie Smith, Lake Michigan Federation

The Ocean Conservancy
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THE INTERNATIONAL COASTAL CLEANUP

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

From plastic pieces littering the shores of remote islands to furnishings and car parts clogging rivers and streams to fishing nets and line smothering and entangling coral reefs, marine debris is one of the most insidious problems facing our oceans today. Virtually no shoreline or beach on earth is free from trash. And the scene looks much the same underwater, where the ocean bottom becomes a veritable trash can for discarded goods.

The truth is, every piece of trash has the chance of becoming marine debris. And once it does, it can stay that way for weeks, months, and even years, affecting ocean life and habitats for miles. That's because today's world relies heavily on synthetic materials—such as beverage bottles, cigarette butts, and fishing line—that are durable and highly buoyant. Once this debris enters oceans and waterways, it degrades slowly and can travel thousands of miles away from its point of origin. These properties make marine debris one of the most difficult ocean problems to address.

Not that people aren't trying: for the 19th year, volunteers across the globe joined together on September 18, 2004 to remove debris from the world's oceans, streams, and waterways as part of the International Coastal Cleanup (ICC).

Today, the ICC is held around every major body of water in the world. But the Cleanup isn't just about pollution cleanup; it's also about pollution prevention. The ICC educates and empowers people to take action and become part of the solution. In addition to collecting and removing debris, volunteers record the types of debris they pick up. The Ocean Conservancy compiles and analyzes this information each year to

LAWS AND TREATIES

International Convention for the Prevention of Pollution from Ships (MARPOL 73/78): This law provides a comprehensive approach when dealing with ocean dumping by creating international guidelines to prevent ship pollution. MARPOL (enforced by the International Maritime Organization www.imo.org) has six annexes covering oil discharge, hazardous liquid control, hazardous material transport, sewage discharge, plastic and garbage disposal, and air pollution. As of March 2005, 119 countries have ratified Annex V, which controls the disposal of plastics and garbage into the oceans.

Marine Plastic Pollution Research and Control Act (MPPRCA): To implement Annex V of MARPOL, each individual country must develop its own national implementation legislation. The U.S. Congress created the MPPRCA to implement Annex V in the United States. Under MPPRCA, it is illegal to throw plastic trash off any vessel within the U.S. Exclusive Economic Zone (within 200 nautical miles of the U.S. shore). It is also illegal to throw any other garbage overboard while navigating U.S. waters (including inland waters) or within three miles of shore.

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

(www.epa.gov/region5/water/cwa.htm)

Beaches Environmental Assessment and Coastal Health Act of 2000 (B.E.A.C.H. Act):

This act amended the Clean Water Act, requiring adoption of minimum health-based water quality criteria, comprehensive water testing, and notification of the public when water contamination levels are unsafe.

(www.epa.gov/waterscience/beaches/act.html)

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

identify the activities and general sources causing the debris. The final information is then used to educate the public, business, industry, and government officials about the marine debris problem.

THE 2004 ICC: A GLOBAL PHENOMENON

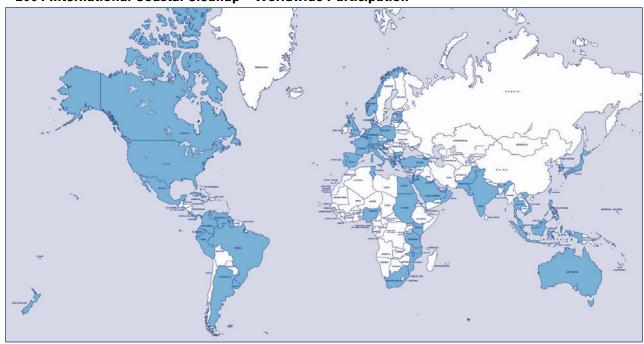
In 2004, volunteers from the United States were joined by people from 87 additional countries in cleaning up debris from our beaches, rivers, and lakes. Worldwide, more than 305,000 people removed over 7.7 million pounds of debris from more than 11,000 miles of shoreline. More than 6,600 divers participated in underwater cleanups, gathering over 155,000 pounds of debris from 382 miles of riverbed and seafloor.

The 2004 Cleanup-held on September 18, 2004-saw growth in several areas. Five new countries-Brunei, Malawi, Samoa, Sudan, and Tunisia-joined in the cleanup efforts. Volunteer participation also increased in several countries. In India, 20,160 people volunteered



for the ICC—an increase of 9,044 volunteers from last year. Nigeria more than quadrupled its volunteer participation, going from 1,632 volunteers in 2003 to 7,319 in 2004. In the United States, Georgia's cleanup efforts expanded to include "Rivers Alive" activities, increasing statewide participation to 22,198 volunteers.

2004 International Coastal Cleanup - Worldwide Participation



2004 ICC: Illinois

During the 2004 ICC in Illinois, 1,410 volunteers came out to clean-up shorelines and waterways. Volunteers covered 34 miles, picking up 68,604 debris items that weighed 10,249 pounds. Among ICC participants in Illinois were 80 divers, who removed 1,120 pounds of debris from below the water's surface. In total 86 debris items were retrieved from 0.76 miles of underwater area.

Overall, 59 percent of the debris found in Illinois originated from land-based recreational activities such as picnics, festivals, sports, and days at the beach. Litter washed from streets, parking lots, and storm drains also contributed to this category of debris. Worldwide, shoreline and recreational activities accounted for 61 percent of the debris collected.

In Illinois, cigarettes, food wrappers, and caps and lids accounted for over half of all the debris items collected.

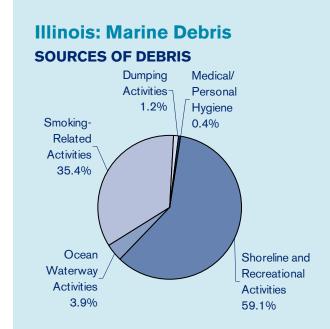
Smoking-related activities, in the form of cigarette filters, cigar tips, and tobacco

packaging, accounted for 35 percent of the debris found in Illinois. Globally, debris from smoking-related activities made up 21 percent of the debris collected.

Debris items from ocean and waterway activities-activities that originate offshore-accounted for four percent of the debris found in Illinois. Worldwide ocean and waterway activities represented only 11 percent of the debris collected during the Cleanup.

Each year, the ICC tabulates a "Top Ten" list of the 10 most prevalent items found during the Cleanup. In addition to being some of the most abundant items, the Top Ten also account for 88 percent of all the debris found in Illinois. The top three items alone – cigarettes, food wrappers, and caps and lids – account for over half of all debris in Illinois. Cigarettes, the number one item in Illinois, comprised over one quarter of the 69 thousand debris items.

Since 1990, most of the items found during the ICC have been waste from consumable goods—from cigarettes to prepackaged food



"TOP TEN" DEBRIS ITEMS

		i ercent
Debris Items	Amount	of Total
1. Cigarettes/Cigarette	21,819	31.8%
Filters		
2. Food Wrappers and	10,147	14.8%
Containers		
3. Caps/Lids	6,317	9.2%
4. Beverage Bottles (Glass)	5,014	7.3%
5. Straws/Stirrers	3,786	5.5%
6. Cups/Plates/Forks/	3,736	5.5%
Knives/Spoons		
7. Beverage Cans	2,806	4.1%
8. Beverage Bottles	2,506	3.7%
(Plastic) 2 liters or less		
9. Bags	2,245	3.3%
10. Cigar Tips	1,728	2.5%
Totals:	60,104	87.7%

Percent

and beverage products—that are discarded after the product is used or consumed. Pinpointing these types of debris and the activities that cause them aids in the tracing of sources of debris and in the creation of educational programs to help people develop a new mind set toward littering and purchasing.

DANGERS OF MARINE DEBRIS

Each year, volunteers find animals caught in a variety of debris. The results can be deadly: debris entanglement can cause lethal cuts, hampered mobility, suffocation, drowning and debris ingestion—when animals mistake debris for food—can lead to strangulation and starvation.

In 2004, volunteers found 186 animals entangled in debris worldwide. Discarded fishing line was responsible for nearly half of all entanglements, with rope and fishing nets closely following. Even though these items represent less than 10 percent of the total number of recorded items, debris such as fishing line, plastic bags, rope, and balloons can be more hazardous to wildlife.

While marine mammal entanglements may be the most well known, they comprise only 10 percent of the total entanglements found during the 2004 ICC. Fish and invertebrates accounted for more than half of all recorded entanglements. Seabirds are also victims of debris: volunteers found 46 entangled birds, nearly a quarter of the total entangled wildlife. These findings illustrate that marine debris affects all aspects of the ocean ecosystem, even those species that spend less time in and on the water.

WHAT'S BEING DONE?

Marine debris is such a pressing issue that the U.S. Commission on Ocean Policy dedicated an entire chapter on the subject in its 2004 report, which was designed to create a blueprint for a new comprehensive national

Illinois: Dangerous Debris	Items
Bags	2,245
Balloons	1,011
Crab/Lobster/Fish Traps	3
Fishing Line	79
Fishing Nets	57
Plastic Sheeting/Tarps	1,213
Rope	213
Six-Pack Holders	207
Strapping Bands	643
Syringes	21
Total	5,697

ocean policy. In it, the Commission recommended several actions the United States should take to address the problem of marine debris. The report tasked the National Oceanic and Atmospheric Administration (NOAA) to work in concert with the Environmental Protection Agency to establish a marine debris management program that would focus on education and outreach, working with communities and industry, and improving debris source identification, monitoring, and research. The report also encouraged the agencies to coordinate and implement expanded marine



debris control efforts. In addition, the Commission urged the United States work on reducing derelict fishing gear and ensuring adequate facilities for garbage disposal from ships. In its findings, the Commission cited data from the ICC on several occasions.

Interest in curbing marine debris has also sparked recent Congressional action. Senators Daniel Inouye (HI) and Ted Stevens (AK) introduced the Marine Debris Research and Reduction Act to Congress in early 2005. Among other actions, the bill creates a new marine debris program within NOAA, enhances Coast Guard efforts against marine debris, and enacts a federal marine debris information clearinghouse. While it has yet to become law, the bill has garnered support in the U.S. Department of Commerce and NOAA.

Data from the last decade indicates that the majority of people do not consider their contributions to marine debris to be significant enough to warrant a change in personal behavior. This is the real problem that the ICC seeks to solve: to increase people's awareness of their contribution to the problem and inspire change. Consequently, continued education on the harmful effects debris has on our oceans, waterways, and our own lives is vital to help alter the behaviors that cause this problem. The 2004 ICC report is one of several tools The Ocean Conservancy uses in its ongoing efforts to educate society and create solutions to this long-standing problem.

WHAT YOU CAN DO

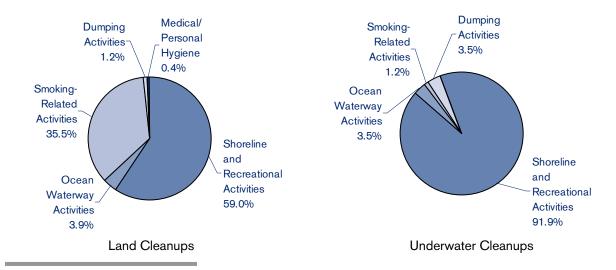
Marine debris is one of the most frustrating environmental threats because it is easily one of the most preventable: the solution is in our hands. Consequently, individual action to curb marine debris is just as important as legislative or political edicts, if not more so. Here are some steps you can take to do your part to reduce the amount of marine debris that enters our oceans and waterways:

- Dispose of trash properly. This helps to reduce the amount of trash that washes into waterways from storm drains.
- Reduce, reuse, and recycle.
- Look for alternative materials or avoid excessive packaging when deciding on purchases.
- Cut the rings of six-pack holders. This lowers the risk of entanglement to marine animals if the holders do make it out to sea.
- Participate in local beach, river, or stream cleanups.
- Educate others about marine debris
- Get involved locally

Debris items collected during the 2004 ICC in Illinois

Debris items collected during the 2004 ICC in II DEBRIS ITEMS	LAND	UNDERWATER	TOTAL
Shoreline and Recreational Activities	LAND	UNDERWATER	TOTAL
-	2,245	0	0.045
Bags Balloons	1,001	10	2,245 1,011
Beverage Bottles (Glass)	4,978	36	
	2,502	4	5,014 2,506
Beverage Bottles (Plastic) 2 liters or less	2,806	0	
Beverage Cans	· · · · · · · · · · · · · · · · · · ·	2	2,806 6,317
Caps/Lids	6,315 841	0	
Clothing/Shoes	3,714	22	841 3,736
Cups/Plates/Forks/ Knives/Spoons		5	
Food Wrappers and Containers Pull Tabs	10,142		10,147
	803	0	803
Shotgun Shells/Wadding	110	0	110
Six-Pack Holders	207	0	207
Straws/Stirrers	3,786	0	3,786
Toys	1,002	0	1,002
Ocean and Waterway Activities	404	<u> </u>	101
Bait Containers/Packaging	101	0	101
Bleach/Cleaner Bottles	93	0	93
Buoys/Floats	31	0	31
Crab/Lobster/Fish Traps	8	0	8
Crates	20	0	20
Fishing Line	78	1	79
Fishing Lures/Light Sticks	53	1	54
Fishing Nets	56	1	57
Light Bulbs/Tubes	53	0	53
Oil/Lube Bottles	34	0	34
Pallets	55	0	55
Plastic Sheeting/Tarps	1,213	0	1,213
Rope	213	0	213
Strapping Bands	643	0	643
Smoking-Related Activities			
Cigar Tips	1,728	0	1,728
Cigarette Lighters	254	0	254
Cigarettes/Cigarette Filters	21,818	1	21,819
Tobacco Packaging/Wrappers	515	0	515
Dumping Activities			
55-Gallon Drums	8	0	8
Appliances (refrigerators, washers, etc.)	22	0	22
Batteries	113	0	113
Building Materials	507	1	508
Cars/Car Parts	100	2	102
Tires	47	0	47
Medical and Personal Hygiene			
Condoms	115	0	115
Diapers	62	0	62
Syringes	21	0	21
Tampons/Tampon Applicators	105	0	105
Totals	68,518	86	68,604

Illinois 2004 ICC - Sources of Marine Debris - Land and Underwater Cleanups



Illinois 2004 ICC "Top Ten" Debris Items - Land and Underwater Cleanups

Land Cleanups Only

	Percent
Amount	of Total
21,818	31.8%
10,142	14.8%
6,315	9.2%
4,978	7.3%
3,786	5.5%
3,714	5.4%
2,806	4.1%
2,502	3.7%
2,245	3.3%
1,728	2.5%
60,034	87.6%
	21,818 10,142 6,315 4,978 3,786 3,714 2,806 2,502 2,245 1,728

Underwater Cleanups Only

		Percent
Debris Items	Amount	of Total
1. Beverage Bottles (Glass)	36	41.9%
2. Cups/Plates/Forks/	22	25.6%
Knives/Spoons		
3. Balloons	10	11.6%
4. Food Wrappers and	5	5.8%
Containers		
5. Beverage Bottles	4	4.7%
(Plastic) 2 liters or less		
6. Cars/Car Parts	2	2.3%
7. Caps/Lids	2	2.3%
8. Building Materials	1	1.2%
9. Cigarettes/Cigarette	1	1.2%
Filters		
10. Fishing Nets	1	1.2%
Totals:	84	97.8%

2004 ICC HONOR ROLL OF DONORS

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2004 ICC Illinois Sponsors

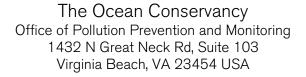
The Boeing Company
Brunswick Public Foundation
Highland Park Community Foundation
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Illinois Environmental Protection Agency





Summary Report Indiana

2004 State Coordinator: Jeanette Miller, Grand Cal Task Force













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2004 International Coastal Cleanup - Worldwide Participation



2004 ICC: Indiana

During the 2004 ICC in Indiana, 1,528 volunteers came out to clean-up shorelines and waterways. Volunteers covered 50 miles, picking up 19,479 debris items that weighed 107,532 pounds. Among ICC participants in Indiana were 29 divers, who removed 2,170 pounds of debris from below the water's surface. In total 71 debris items were retrieved from 4.4 miles of underwater area.

In Indiana, cigarettes, caps and lids, and food wrappers accounted for over half of all the debris items collected.

Overall, 56 percent of the debris found in Indiana originated from land-based recreational activities such as picnics, festivals, sports, and days at the beach. Litter washed from streets, parking lots, and storm drains also contributed to this category of debris. Worldwide, shoreline and recreational activities accounted for 61 percent of the debris collected.

Smoking-related activities, in the form of cigarette filters, cigar tips, and tobacco

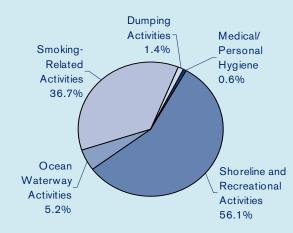
packaging, accounted for 37 percent of the debris found in Indiana. Globally, debris from smoking-related activities made up 21 percent of the debris collected.

Debris items from ocean and waterway activities-activities that originate offshore-accounted for five percent of the debris found in Indiana. Worldwide ocean and waterway activities represented only 11 percent of the debris collected during the Cleanup.

Each year, the ICC tabulates a "Top Ten" list of the 10 most prevalent items found during the Cleanup. In addition to being some of the most abundant items, the Top Ten also account for 84 percent of all the debris found in Indiana. The top three items alone – cigarettes, caps and lids, and food wrappers – account for over half of all debris in Indiana. Cigarettes, the number one item in Indiana, comprised over one quarter of the 19 thousand debris items.

Since 1990, most of the items found during the ICC have been waste from consumable goods—from cigarettes to prepackaged food





"TOP TEN" DEBRIS ITEMS

		Percent
Debris Items	Amount	of Total
1. Cigarettes/Cigarette	5,984	30.7%
Filters		
2. Caps/Lids	2,716	13.9%
3. Food Wrappers and	1,748	9.0%
Containers		
4. Straws/Stirrers	1,003	5.2%
5. Beverage Bottles (Glass)	936	4.8%
6. Cups/Plates/Forks/	909	4.7%
Knives/Spoons		
7. Beverage Bottles	891	4.6%
(Plastic) 2 liters or less		
8. Beverage Cans	821	4.2%
9. Cigar Tips	751	3.9%
10. Bags	575	3.0%
Totals:	16,334	84.0%
-		

and beverage products—that are discarded after the product is used or consumed. Pinpointing these types of debris and the activities that cause them aids in the tracing of sources of debris and in the creation of educational programs to help people develop a new mind set toward littering and purchasing.

DANGERS OF MARINE DEBRIS

Each year, volunteers find animals caught in a variety of debris. The results can be deadly: debris entanglement can cause lethal cuts, hampered mobility, suffocation, drowning and debris ingestion—when animals mistake debris for food—can lead to strangulation and starvation.

In 2004, volunteers found 186 animals entangled in debris worldwide. Discarded fishing line was responsible for nearly half of all entanglements, with rope and fishing nets closely following. Even though these items represent less than 10 percent of the total number of recorded items, debris such as fishing line, plastic bags, rope, and balloons can be more hazardous to wildlife. For a list of entangled animals found during the ICC in Indiana, refer to the table in Appendix.

While marine mammal entanglements may be the most well known, they comprise only 10 percent of the total entanglements found during the 2004 ICC. Fish and invertebrates accounted for more than half of all recorded entanglements. Seabirds are also victims of debris: volunteers found 46 entangled birds, nearly a quarter of the total entangled wildlife. These findings illustrate that marine debris affects all aspects of the ocean ecosystem, even those species that spend less time in and on the water.

WHAT'S BEING DONE?

Marine debris is such a pressing issue that the U.S. Commission on Ocean Policy dedicated an entire chapter on the subject in its 2004

Bags	575
Balloons	513
Crab/Lobster/Fish Traps	6
Fishing Line	56
Fishing Nets	13
Plastic Sheeting/Tarps	393
Rope	142
Six-Pack Holders	52
Strapping Bands	57
Syringes	5
Total	1,812

report, which was designed to create a blueprint for a new comprehensive national ocean policy. In it, the Commission recommended several actions the United States should take to address the problem of marine debris. The report tasked the National Oceanic and Atmospheric Administration (NOAA) to work in concert with the Environmental Protection Agency to establish a marine debris management program that would focus on education and outreach, working with communities and industry, and improving debris source identification, monitoring, and research.



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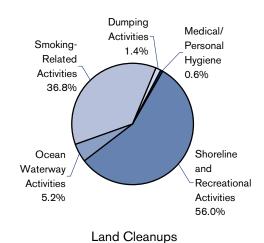
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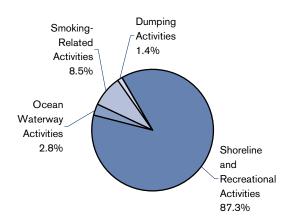
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- Participate in local beach, river, or stream cleanups.
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- Get involved locally

Debris items collected during the 2004 ICC in Indiana

Shoreline and Recreational Activities	Debris items collected during the 2004 ICC in		· · · · · · · · · · · · · · · · · · ·	
Bags	DEBRIS ITEMS	LAND	UNDERWATER	TOTAL
Balloons				
Beverage Bottles (Glass) 929 7 9				575
Beverage Bottles (Plastic) 2 liters or less 883 8 8			·	513
Beverage Cans			-	936
Caps/Lids				891
Clothing/Shoes				821
Cups/Plates/Forks/ Knives/Spoons 895				2,716
Food Wrappers and Containers				199
Pull Tabs				909
Shotgun Shells/Wadding		•		1,748
Six-Pack Holders				140
Straws/Stirrers				140
Toys				52
Ocean and Waterway Activities Bait Containers/Packaging 146 1 1 Bleach/Cleaner Bottles 9 0 Buoys/Floats 46 0 Crab/Lobster/Fish Traps 6 0 Crates 57 0 Fishing Line 56 0 Fishing Lures/Light Sticks 43 0 Fishing Nets 12 1 Light Bulbs/Tubes 9 0 Oil/Lube Bottles 17 0 Pallets 20 0 Plastic Sheeting/Tarps 393 0 3 Rope 142 0 1 Strapping Bands 57 0 5 Smoking-Related Activities 57 0 5 Cigar Tips 751 0 7 Cigarettes/Cigarette Filters 5,983 1 5,9 Tobacco Packaging/Wrappers 238 3 2 Dumping Activities 55-Gallon Drums 2 0				1,003
Bait Containers/Packaging		290	1	291
Bleach/Cleaner Bottles				
Buoys/Floats				147
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7 0				59
				19,479

Indiana 2004 ICC - Sources of Marine Debris - Land and Underwater Cleanups





Underwater Cleanups

Indiana 2004 ICC "Top Ten" Debris Items - Land and Underwater Cleanups

Land Cleanups Only

		Percent
Debris Items	Amount	of Total
1. Cigarettes/Cigarette	5,983	30.8%
Filters		
2. Caps/Lids	2,713	14.0%
Food Wrappers and	1,744	9.0%
Containers		
4. Straws/Stirrers	1,003	5.2%
5. Beverage Bottles (Glass)	929	4.8%
6. Cups/Plates/Forks/	895	4.6%
Knives/Spoons		
7. Beverage Bottles	883	4.6%
(Plastic) 2 liters or less		
8. Beverage Cans	801	4.1%
9. Cigar Tips	751	3.9%
10. Bags	575	3.0%
Totals:	16,277	84.0%

Underwater Cleanups Only

		Percent
Debris Items	Amount	of Total
1. Beverage Cans	20	28.2%
2. Cups/Plates/Forks/	14	19.7%
Knives/Spoons		
3. Beverage Bottles	8	11.3%
(Plastic) 2 liters or less		
4. Beverage Bottles (Glass)	7	9.9%
5. Clothing/Shoes	5	7.0%
6. Food Wrappers and	4	5.6%
Containers		
7. Tobacco	3	4.2%
Packaging/Wrappers		
8. Caps/Lids	3	4.2%
9. Cigarette Lighters	2	2.8%
10. Batteries	1	1.4%
Totals:	67	94.3%

Indiana 2004 ICC - Entangled Animals

Indiana 2004 ICC E	Italigica Alli	Παισ		
Entangling Debris	Birds	Fishes	Invertebrates	Total
balloon ribbon/string	0	0	1	1
fishing line	0	1	0	1
fishing nets	1	0	0	1
six-pack holders	3	0	0	3
Totals	4	1	1	6

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U.S. Environmental Protection Agency

Walt Disney World





Summary Report Michigan

2004 State Coordinator: Jamie Morton, Lake Michigan Federation

The Ocean Conservancy
Office of Pollution Prevention and Monitoring
1432 N Great Neck Rd, Suite 103
Virginia Beach, VA 23454 USA



THE INTERNATIONAL COASTAL CLEANUP

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

From plastic pieces littering the shores of remote islands to furnishings and car parts clogging rivers and streams to fishing nets and line smothering and entangling coral reefs, marine debris is one of the most insidious problems facing our oceans today. Virtually no shoreline or beach on earth is free from trash. And the scene looks much the same underwater, where the ocean bottom becomes a veritable trash can for discarded goods.

The truth is, every piece of trash has the chance of becoming marine debris. And once it does, it can stay that way for weeks, months, and even years, affecting ocean life and habitats for miles. That's because today's world relies heavily on synthetic materials—such as beverage bottles, cigarette butts, and fishing line—that are durable and highly buoyant. Once this debris enters oceans and waterways, it degrades slowly and can travel thousands of miles away from its point of origin. These properties make marine debris one of the most difficult ocean problems to address.

Not that people aren't trying: for the 19th year, volunteers across the globe joined together on September 18, 2004 to remove debris from the world's oceans, streams, and waterways as part of the International Coastal Cleanup (ICC).

Today, the ICC is held around every major body of water in the world. But the Cleanup isn't just about pollution cleanup; it's also about pollution prevention. The ICC educates and empowers people to take action and become part of the solution. In addition to collecting and removing debris, volunteers record the types of debris they pick up. The Ocean Conservancy compiles and analyzes this information each year to

LAWS AND TREATIES

International Convention for the Prevention of Pollution from Ships (MARPOL 73/78): This law provides a comprehensive approach when dealing with ocean dumping by creating international guidelines to prevent ship pollution. MARPOL (enforced by the International Maritime Organization www.imo.org) has six annexes covering oil discharge, hazardous liquid control, hazardous material transport, sewage discharge, plastic and garbage disposal, and air pollution. As of March 2005, 119 countries have ratified Annex V, which controls the disposal of plastics and garbage into the oceans.

Marine Plastic Pollution Research and Control Act (MPPRCA): To implement Annex V of MARPOL, each individual country must develop its own national implementation legislation. The U.S. Congress created the MPPRCA to implement Annex V in the United States. Under MPPRCA, it is illegal to throw plastic trash off any vessel within the U.S. Exclusive Economic Zone (within 200 nautical miles of the U.S. shore). It is also illegal to throw any other garbage overboard while navigating U.S. waters (including inland waters) or within three miles of shore.

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

(www.epa.gov/region5/water/cwa.htm)

Beaches Environmental Assessment and Coastal Health Act of 2000 (B.E.A.C.H. Act):

This act amended the Clean Water Act, requiring adoption of minimum health-based water quality criteria, comprehensive water testing, and notification of the public when water contamination levels are unsafe.

(www.epa.gov/waterscience/beaches/act.html)

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

identify the activities and general sources causing the debris. The final information is then used to educate the public, business, industry, and government officials about the marine debris problem.

THE 2004 ICC: A GLOBAL PHENOMENON

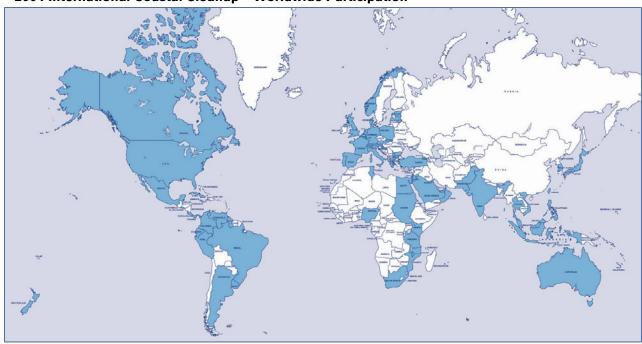
In 2004, volunteers from the United States were joined by people from 87 additional countries in cleaning up debris from our beaches, rivers, and lakes. Worldwide, more than 305,000 people removed over 7.7 million pounds of debris from more than 11,000 miles of shoreline. More than 6,600 divers participated in underwater cleanups, gathering over 155,000 pounds of debris from 382 miles of riverbed and seafloor.

The 2004 Cleanup-held on September 18, 2004-saw growth in several areas. Five new countries-Brunei, Malawi, Samoa, Sudan, and Tunisia-joined in the cleanup efforts. Volunteer participation also increased in several countries. In India, 20,160 people volunteered



for the ICC—an increase of 9,044 volunteers from last year. Nigeria more than quadrupled its volunteer participation, going from 1,632 volunteers in 2003 to 7,319 in 2004. In the United States, Georgia's cleanup efforts expanded to include "Rivers Alive" activities, increasing statewide participation to 22,198 volunteers.

2004 International Coastal Cleanup - Worldwide Participation



2004 ICC: Michigan

During the 2004 ICC in Michigan, 2,394 volunteers came out to clean-up shorelines and waterways. Volunteers covered 174 miles, picking up 119,829 debris items that weighed 10,247 pounds.

Overall, 44 percent of the debris found in Michigan originated from land-based recreational activities such as picnics, festivals, sports, and days at the beach. Litter washed from streets, parking lots, and storm drains also contributed to this category of debris. Worldwide, shoreline and recreational activities accounted for 61 percent of the debris collected.

In Michigan, cigarettes, food wrappers, and caps and lids accounted for over half of all the debris items collected.

Smoking-related activities, in the form of cigarette filters, cigar tips, and tobacco packaging, accounted for 50 percent of the debris found in Michigan. Globally, debris from

smoking-related activities made up 21 percent of the debris collected.

Debris items from ocean and waterway activities-activities that originate offshore-accounted for four percent of the debris found in Michigan. Worldwide ocean and waterway activities represented only 11 percent of the debris collected during the Cleanup.

Each year, the ICC tabulates a "Top Ten" list of the 10 most prevalent items found during the Cleanup. In addition to being some of the most abundant items, the Top Ten also account for 88 percent of all the debris found in Michigan. The top three items alone – cigarettes, food wrappers, and caps and lids – account for over half of all debris in Michigan. Cigarettes, the number one item in Michigan, comprised nearly half of the 120 thousand debris items.

Since 1990, most of the items found during the ICC have been waste from consumable goods-from cigarettes to prepackaged food and beverage products-that are discarded

Michigan: Marine Debris SOURCES OF DEBRIS Medical/ Dumping Personal Activities Hygiene 1.0% 0.6% Shoreline and Recreational Activities 44.4% Smoking-Related Activities 50.1% Ocean Waterway Activities 3.9%

"TOP TEN" DEBRIS ITEMS

		Percent
Debris Items	Amount	of Total
Cigarettes/Cigarette Filters	55,102	46.0%
2. Food Wrappers and Containers	17,307	14.4%
3. Caps/Lids	8,466	7.1%
4. Straws/Stirrers	6,731	5.6%
5. Balloons	4,490	3.8%
6. Cups/Plates/Forks/ Knives/Spoons	3,810	3.2%
7. Cigar Tips	2,839	2.4%
8. Bags	2,465	2.1%
9. Beverage Bottles (Plastic) 2 liters or less	2,350	2.0%
10. Beverage Bottles (Glass)	2,068	1.7%
Totals:	105,628	88.3%

Doroont

after the product is used or consumed. Pinpointing these types of debris and the activities that cause them aids in the tracing of sources of debris and in the creation of educational programs to help people develop a new mind set toward littering and purchasing.

DANGERS OF MARINE DEBRIS

Each year, volunteers find animals caught in a variety of debris. The results can be deadly: debris entanglement can cause lethal cuts, hampered mobility, suffocation, drowning and debris ingestion—when animals mistake debris for food—can lead to strangulation and starvation.

In 2004, volunteers found 186 animals entangled in debris worldwide. Discarded fishing line was responsible for nearly half of all entanglements, with rope and fishing nets closely following. Even though these items represent less than 10 percent of the total number of recorded items, debris such as fishing line, plastic bags, rope, and balloons can be more hazardous to wildlife. For a list of entangled animals found during the ICC in Michigan, refer to the table in Appendix.

While marine mammal entanglements may be the most well known, they comprise only 10 percent of the total entanglements found during the 2004 ICC. Fish and invertebrates accounted for more than half of all recorded entanglements. Seabirds are also victims of debris: volunteers found 46 entangled birds, nearly a quarter of the total entangled wildlife. These findings illustrate that marine debris affects all aspects of the ocean ecosystem, even those species that spend less time in and on the water.

WHAT'S BEING DONE?

Marine debris is such a pressing issue that the U.S. Commission on Ocean Policy dedicated an entire chapter on the subject in its 2004 report, which was designed to create a

Michigan: Dangerous Deb	
Bags	2,465
Balloons	4,490
Crab/Lobster/Fish Traps	8
Fishing Line	999
Fishing Nets	44
Plastic Sheeting/Tarps	1,387
Rope	611
Six-Pack Holders	156
Strapping Bands	395
Syringes	24
Total	10,579

blueprint for a new comprehensive national ocean policy. In it, the Commission recommended several actions the United States should take to address the problem of marine debris. The report tasked the National Oceanic and Atmospheric Administration (NOAA) to work in concert with the Environmental Protection Agency to establish a marine debris management program that would focus on education and outreach, working with communities and industry, and improving debris source identification, monitoring, and research. The report also encouraged the agencies to



coordinate and implement expanded marine debris control efforts. In addition, the Commission urged the United States work on reducing derelict fishing gear and ensuring adequate facilities for garbage disposal from ships. In its findings, the Commission cited data from the ICC on several occasions.

Interest in curbing marine debris has also sparked recent Congressional action. Senators Daniel Inouye (HI) and Ted Stevens (AK) introduced the Marine Debris Research and Reduction Act to Congress in early 2005. Among other actions, the bill creates a new marine debris program within NOAA, enhances Coast Guard efforts against marine debris, and enacts a federal marine debris information clearinghouse. While it has yet to become law, the bill has garnered support in the U.S. Department of Commerce and NOAA.

Data from the last decade indicates that the majority of people do not consider their contributions to marine debris to be significant enough to warrant a change in personal behavior. This is the real problem that the ICC seeks to solve: to increase people's awareness of their contribution to the problem and inspire change. Consequently, continued education on the harmful effects debris has on our oceans, waterways, and our own lives is vital to help alter the behaviors that cause this problem. The 2004 ICC report is one of several tools The Ocean Conservancy uses in its ongoing efforts to educate society and create solutions to this long-standing problem.

WHAT YOU CAN DO

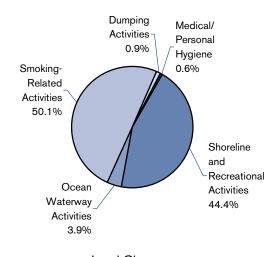
Marine debris is one of the most frustrating environmental threats because it is easily one of the most preventable: the solution is in our hands. Consequently, individual action to curb marine debris is just as important as legislative or political edicts, if not more so. Here are some steps you can take to do your part to reduce the amount of marine debris that enters our oceans and waterways:

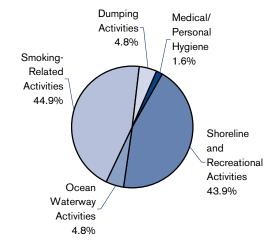
- Dispose of trash properly. This helps to reduce the amount of trash that washes into waterways from storm drains.
- Reduce, reuse, and recycle.
- Look for alternative materials or avoid excessive packaging when deciding on purchases.
- Cut the rings of six-pack holders. This lowers the risk of entanglement to marine animals if the holders do make it out to sea.
- Participate in local beach, river, or stream cleanups.
- Educate others about marine debris
- Get involved locally

Debris items collected during the 2004 ICC in Michigan

Debris items collected during the 2004 ICC in Michigan			
DEBRIS ITEMS	LAND	UNDERWATER	TOTAL
Shoreline and Recreational Activities			
Bags	2,426	39	2,465
Balloons	4,427	63	4,490
Beverage Bottles (Glass)	2,058	10	2,068
Beverage Bottles (Plastic) 2 liters or less	2,318	32	2,350
Beverage Cans	1,590	29	1,619
Caps/Lids	8,285	181	8,466
Clothing/Shoes	880	11	891
Cups/Plates/Forks/ Knives/Spoons	3,783	27	3,810
Food Wrappers and Containers	17,234	73	17,307
Pull Tabs	840	0	840
Shotgun Shells/Wadding	789	67	856
Six-Pack Holders	156	0	156
Straws/Stirrers	6,641	90	6,731
Toys	1,126	12	1,138
Ocean and Waterway Activities			
Bait Containers/Packaging	677	3	680
Bleach/Cleaner Bottles	80	6	86
Buoys/Floats	54	7	61
Crab/Lobster/Fish Traps	8	0	8
Crates	12	0	12
Fishing Line	995	4	999
Fishing Lures/Light Sticks	280	6	286
Fishing Nets	43	1	44
Light Bulbs/Tubes	38	1	39
Oil/Lube Bottles	84	1	85
Pallets	23	0	23
Plastic Sheeting/Tarps	1,382	5	1,387
Rope	582	29	611
Strapping Bands	389	6	395
Smoking-Related Activities			
Cigar Tips	2,680	159	2,839
Cigarette Lighters	894	5	899
Cigarettes/Cigarette Filters	54,624	478	55,102
Tobacco Packaging/Wrappers	1,157	7	1,164
Dumping Activities			
55-Gallon Drums	27	0	27
Appliances (refrigerators, washers, etc.)	4	0	4
Batteries	59	1	60
Building Materials	757	61	818
Cars/Car Parts	172	3	175
Tires	69	5	74
Medical and Personal Hygiene	10=	6.1	165
Condoms	125	0	125
Diapers	161	0	161
Syringes	21	3	24
Tampons/Tampon Applicators	434	20	454
Totals	118,384	1,445_	119,829

Michigan 2004 ICC - Sources of Marine Debris - Land and Underwater Cleanups





Land Cleanups

Underwater Cleanups

Michigan 2004 ICC "Top Ten" Debris Items - Land and Underwater Cleanups

Land Cleanups Only

Lana Olcanaps Only		
		Percent
Debris Items	Amount	of Total
1. Cigarettes/Cigarette Filters	54,624	46.1%
2. Food Wrappers and	17,234	14.6%
Containers		
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Knives/Spoons		
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8. Bags	2,426	2.1%
9. Beverage Bottles (Plastic)	2,318	2.0%
2 liters or less		
10. Beverage Bottles (Glass)	2,058	1.7%
Totals:	104,476	88.3%
·		

Underwater Cleanups Only

		Percent
Debris Items	Amount	of Total
1. Cigarettes/Cigarette Filters	478	33.1%
2. Caps/Lids	181	12.5%
3. Cigar Tips	159	11.0%
4. Straws/Stirrers	90	6.2%
5. Food Wrappers and	73	5.1%
Containers		
6. Shotgun Shells/Wadding	67	4.6%
7. Balloons	63	4.4%
8. Building Materials	61	4.2%
9. Bags	39	2.7%
10. Beverage Bottles (Plastic)	32	2.2%
2 liters or less		
Totals:	1,243	86.0%

Michigan 2004 ICC - Entangled Animals

Entangling Debris	Fishes
fishing line	1
miscellaneous	1
Totals	2

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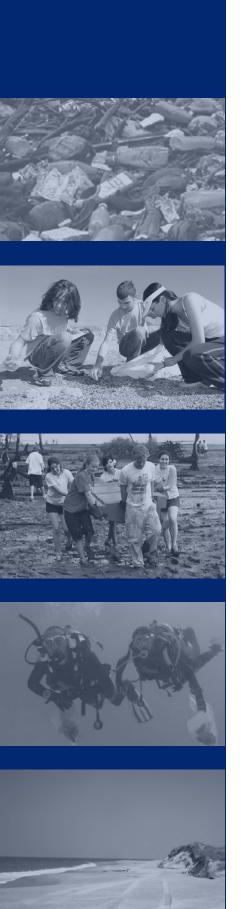




Summary Report Minnesota

2004 State Coordinator: Erin Zoellick, Great Lakes Aquarium

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Office of Pollution Prevention and Monitoring
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The truth is, every piece of trash has the chance of becoming marine debris. And once it does, it can stay that way for weeks, months, and even years, affecting ocean life and habitats for miles. That's because today's world relies heavily on synthetic materials—such as beverage bottles, cigarette butts, and fishing line—that are durable and highly buoyant. Once this debris enters oceans and waterways, it degrades slowly and can travel thousands of miles away from its point of origin. These properties make marine debris one of the most difficult ocean problems to address.

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LAWS AND TREATIES

International Convention for the Prevention of Pollution from Ships (MARPOL 73/78): This law provides a comprehensive approach when dealing with ocean dumping by creating international guidelines to prevent ship pollution. MARPOL (enforced by the International Maritime Organization www.imo.org) has six annexes covering oil discharge, hazardous liquid control, hazardous material transport, sewage discharge, plastic and garbage disposal, and air pollution. As of March 2005, 119 countries have ratified Annex V, which controls the disposal of plastics and garbage into the oceans.

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

(www.epa.gov/region5/water/cwa.htm)

Beaches Environmental Assessment and Coastal Health Act of 2000 (B.E.A.C.H. Act):

This act amended the Clean Water Act, requiring adoption of minimum health-based water quality criteria, comprehensive water testing, and notification of the public when water contamination levels are unsafe.

(www.epa.gov/waterscience/beaches/act.html)

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

identify the activities and general sources causing the debris. The final information is then used to educate the public, business, industry, and government officials about the marine debris problem.

THE 2004 ICC: A GLOBAL PHENOMENON

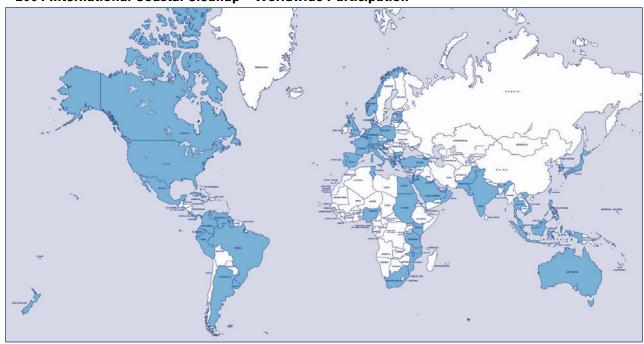
In 2004, volunteers from the United States were joined by people from 87 additional countries in cleaning up debris from our beaches, rivers, and lakes. Worldwide, more than 305,000 people removed over 7.7 million pounds of debris from more than 11,000 miles of shoreline. More than 6,600 divers participated in underwater cleanups, gathering over 155,000 pounds of debris from 382 miles of riverbed and seafloor.

The 2004 Cleanup-held on September 18, 2004-saw growth in several areas. Five new countries-Brunei, Malawi, Samoa, Sudan, and Tunisia-joined in the cleanup efforts. Volunteer participation also increased in several countries. In India, 20,160 people volunteered



for the ICC—an increase of 9,044 volunteers from last year. Nigeria more than quadrupled its volunteer participation, going from 1,632 volunteers in 2003 to 7,319 in 2004. In the United States, Georgia's cleanup efforts expanded to include "Rivers Alive" activities, increasing statewide participation to 22,198 volunteers.

2004 International Coastal Cleanup - Worldwide Participation



2004 ICC: Minnesota

During the 2004 ICC in Minnesota, 157 volunteers came out to clean-up shorelines and waterways. Volunteers covered 117 miles, picking up 9,685 debris items that weighed 868 pounds. Among ICC participants in Minnesota were 28 divers, who removed 50 pounds of debris from below the water's surface. In total 76 debris items were retrieved from 7.25 miles of underwater area.

Overall, 33 percent of the debris found in Minnesota originated from land-based recreational activities such as picnics, festivals, sports, and days at the beach. Litter washed from streets, parking lots, and storm drains also contributed to this category of debris. Worldwide, shoreline and recreational activities accounted for 61 percent of the debris collected.

In Minnesota, cigarettes, food wrappers, and caps and lids accounted for over three quarters of all the debris items collected.

Smoking-related activities, in the form of cigarette filters, cigar tips, and tobacco

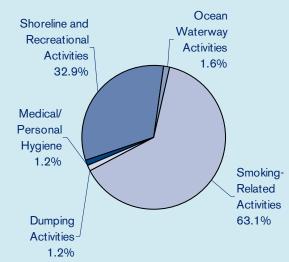
packaging, accounted for 63 percent of the debris found in Minnesota. Globally, debris from smoking-related activities made up 21 percent of the debris collected.

Debris items from ocean and waterway activities-activities that originate offshore-accounted for two percent of the debris found in Minnesota. Worldwide ocean and waterway activities represented only 11 percent of the debris collected during the Cleanup.

Each year, the ICC tabulates a "Top Ten" list of the 10 most prevalent items found during the Cleanup. In addition to being some of the most abundant items, the Top Ten also account for 93 percent of all the debris found in Minnesota. The top three items alone – cigarettes, food wrappers, and caps and lids – account for over three quarters of all debris in Minnesota. Cigarettes, the number one item in Minnesota, comprised over half of the nine thousand debris items.

Since 1990, most of the items found during the ICC have been waste from consumable





"TOP TEN" DEBRIS ITEMS

	Percent
Amount	of Total
5,854	60.4%
1,299	13.4%
375	3.9%
329	3.4%
227	2.3%
224	2.3%
221	2.3%
167	1.7%
155	1.6%
153	1.6%
9,004	92.9%
	5,854 1,299 375 329 227 224 221 167 155 153

goods—from cigarettes to prepackaged food and beverage products—that are discarded after the product is used or consumed. Pinpointing these types of debris and the activities that cause them aids in the tracing of sources of debris and in the creation of educational programs to help people develop a new mind set toward littering and purchasing.

DANGERS OF MARINE DEBRIS

Each year, volunteers find animals caught in a variety of debris. The results can be deadly: debris entanglement can cause lethal cuts, hampered mobility, suffocation, drowning and debris ingestion—when animals mistake debris for food—can lead to strangulation and starvation.

In 2004, volunteers found 186 animals entangled in debris worldwide. Discarded fishing line was responsible for nearly half of all entanglements, with rope and fishing nets closely following. Even though these items represent less than 10 percent of the total number of recorded items, debris such as fishing line, plastic bags, rope, and balloons can be more hazardous to wildlife. For a list of entangled animals found during the ICC in Minnesota, refer to the appendix.

While marine mammal entanglements may be the most well known, they comprise only 10 percent of the total entanglements found during the 2004 ICC. Fish and invertebrates accounted for more than half of all recorded entanglements. Seabirds are also victims of debris: volunteers found 46 entangled birds, nearly a quarter of the total entangled wildlife. These findings illustrate that marine debris affects all aspects of the ocean ecosystem, even those species that spend less time in and on the water.

WHAT'S BEING DONE?

Marine debris is such a pressing issue that the U.S. Commission on Ocean Policy dedicated

Minnesota: Dangerous De	155
Bags	
Balloons	19
Fishing Line	13
Fishing Nets	2
Plastic Sheeting/Tarps	69
Rope	18
Six-Pack Holders	S
Strapping Bands	14
Syringes	20
Total	319

an entire chapter on the subject in its 2004 report, which was designed to create a blueprint for a new comprehensive national ocean policy. In it, the Commission recommended several actions the United States should take to address the problem of marine debris. The report tasked the National Oceanic and Atmospheric Administration (NOAA) to work in concert with the Environmental Protection Agency to establish a marine debris management program that would focus on education and outreach, working with communities and industry, and improving debris source identification, monitoring, and research. The report also encouraged the agencies to



coordinate and implement expanded marine debris control efforts. In addition, the Commission urged the United States work on reducing derelict fishing gear and ensuring adequate facilities for garbage disposal from ships. In its findings, the Commission cited data from the ICC on several occasions.

Interest in curbing marine debris has also sparked recent Congressional action. Senators Daniel Inouye (HI) and Ted Stevens (AK) introduced the Marine Debris Research and Reduction Act to Congress in early 2005. Among other actions, the bill creates a new marine debris program within NOAA, enhances Coast Guard efforts against marine debris, and enacts a federal marine debris information clearinghouse. While it has yet to become law, the bill has garnered support in the U.S. Department of Commerce and NOAA.

Data from the last decade indicates that the majority of people do not consider their contributions to marine debris to be significant enough to warrant a change in personal behavior. This is the real problem that the ICC seeks to solve: to increase people's awareness of their contribution to the problem and inspire change. Consequently, continued education on the harmful effects debris has on our oceans, waterways, and our own lives is vital to help alter the behaviors that cause this problem. The 2004 ICC report is one of several tools The Ocean Conservancy uses in its ongoing efforts to educate society and create solutions to this long-standing problem.

WHAT YOU CAN DO

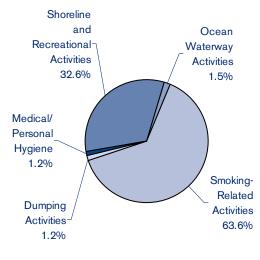
Marine debris is one of the most frustrating environmental threats because it is easily one of the most preventable: the solution is in our hands. Consequently, individual action to curb marine debris is just as important as legislative or political edicts, if not more so. Here are some steps you can take to do your part to reduce the amount of marine debris that enters our oceans and waterways:

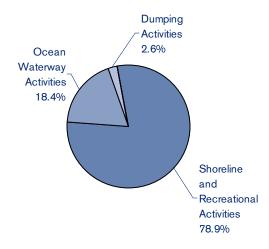
- Dispose of trash properly. This helps to reduce the amount of trash that washes into waterways from storm drains.
- Reduce, reuse, and recycle.
- Look for alternative materials or avoid excessive packaging when deciding on purchases.
- Cut the rings of six-pack holders. This lowers the risk of entanglement to marine animals if the holders do make it out to sea
- Participate in local beach, river, or stream cleanups.
- Educate others about marine debris
- Get involved locally

Debris items collected during the 2004 ICC in Minnesota

Debris items collected during the 2004 ICC in		LINDEDWATER	TOTAL
DEBRIS ITEMS	LAND	UNDERWATER	TOTAL
Shoreline and Recreational Activities			
Bags	155	0	155
Balloons	19	0	19
Beverage Bottles (Glass)	227	0	227
Beverage Bottles (Plastic) 2 liters or less	224	0	224
Beverage Cans	314	15	329
Caps/Lids	374	1	375
Clothing/Shoes	74	1	75
Cups/Plates/Forks/ Knives/Spoons	221	0	221
Food Wrappers and Containers	1,259	40	1,299
Pull Tabs	40	1	41
Shotgun Shells/Wadding	10	1	11
Six-Pack Holders	9	0	9
Straws/Stirrers	166	1	167
Toys	38	0	38
Ocean and Waterway Activities			
Bait Containers/Packaging	19	1	20
Bleach/Cleaner Bottles	1	0	1
Buoys/Floats	0	0	0
Crab/Lobster/Fish Traps	0	0	0
Crates	0	0	0
Fishing Line	5	8	13
Fishing Lures/Light Sticks	4	3	7
Fishing Nets	2	0	2
Light Bulbs/Tubes	3	0	3
Oil/Lube Bottles	8	0	8
Pallets	0	0	0
Plastic Sheeting/Tarps	69	0	69
Rope	16	2	18
Strapping Bands	14	0	14
Smoking-Related Activities			
Cigar Tips	78	0	78
Cigarette Lighters	22	0	22
Cigarettes/Cigarette Filters	5,854	0	5,854
Tobacco Packaging/Wrappers	153	0	153
Dumping Activities			
55-Gallon Drums	0	0	0
Appliances (refrigerators, washers, etc.)	0	0	0
Batteries	5	0	5
Building Materials	52	1	53
Cars/Car Parts	46	0	46
Tires	13	1	14
Medical and Personal Hygiene	, 0	•	
Condoms	50	0	50
Diapers	24	0	24
Syringes	20	0	20
Tampons/Tampon Applicators	21	0	21
		76	
Totals	9,609	/6_	9,685

Minnesota 2004 ICC - Sources of Marine Debris - Land and Underwater Cleanups





Land Cleanups Underwater Cleanups

Minnesota 2004 ICC "Top Ten" Debris Items - Land and Underwater Cleanups

Land Cleanups Only

Dahwia Itawa	A	Percent
Debris Items	Amount	of Total
1. Cigarettes/Cigarette Filters	5,854	60.9%
Food Wrappers and	1,259	13.1%
Containers		
3. Caps/Lids	374	3.9%
4. Beverage Cans	314	3.3%
5. Beverage Bottles (Glass)	227	2.4%
6. Beverage Bottles (Plastic)	224	2.3%
2 liters or less		
7. Cups/Plates/Forks/	221	2.3%
Knives/Spoons		
8. Straws/Stirrers	166	1.7%
9. Bags	155	1.6%
10. Tobacco	153	1.6%
Packaging/Wrappers		
Totals:	8,947	93.1%
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Underwater Cleanups Only

		Percent
Debris Items	Amount	of Total
1. Food Wrappers and	40	52.6%
Containers		
2. Beverage Cans	15	19.7%
3. Fishing Line	8	10.5%
4. Fishing Lures/Light Sticks	3	4.0%
5. Rope	2	2.6%
6. Tires	1	1.3%
7. Building Materials	1	1.3%
8. Bait Containers/Packaging	1	1.3%
9. Straws/Stirrers	1	1.3%
10. Shotgun Shells/Wadding	1	1.3%
Totals:	73	95.9%

Minnesota 2004 ICC - Entangled Animals

Entangling Debris	Birds
fishing line	1
Totals	1

2004 ICC HONOR ROLL OF DONORS

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2004 International Coastal Cleanup

Summary Report New York

2004 State Coordinator: Barbara Cohen / Don Reipe, American Littoral Society



THE INTERNATIONAL COASTAL CLEANUP

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

From plastic pieces littering the shores of remote islands to furnishings and car parts clogging rivers and streams to fishing nets and line smothering and entangling coral reefs, marine debris is one of the most insidious problems facing our oceans today. Virtually no shoreline or beach on earth is free from trash. And the scene looks much the same underwater, where the ocean bottom becomes a veritable trash can for discarded goods.

The truth is, every piece of trash has the chance of becoming marine debris. And once it does, it can stay that way for weeks, months, and even years, affecting ocean life and habitats for miles. That's because today's world relies heavily on synthetic materials—such as beverage bottles, cigarette butts, and fishing line—that are durable and highly buoyant. Once this debris enters oceans and waterways, it degrades slowly and can travel thousands of miles away from its point of origin. These properties make marine debris one of the most difficult ocean problems to address.

Not that people aren't trying: for the 19th year, volunteers across the globe joined together on September 18, 2004 to remove debris from the world's oceans, streams, and waterways as part of the International Coastal Cleanup (ICC).

Today, the ICC is held around every major body of water in the world. But the Cleanup isn't just about pollution cleanup; it's also about pollution prevention. The ICC educates and empowers people to take action and become part of the solution. In addition to collecting and removing debris, volunteers record the types of debris they pick up. The Ocean Conservancy compiles and analyzes this information each year to

LAWS AND TREATIES

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(www.epa.gov/region5/water/cwa.htm)

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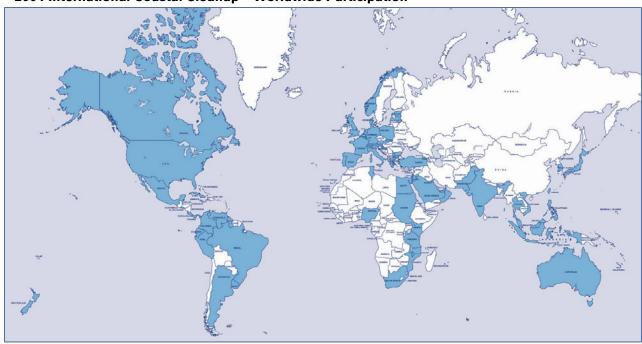
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for the ICC—an increase of 9,044 volunteers from last year. Nigeria more than quadrupled its volunteer participation, going from 1,632 volunteers in 2003 to 7,319 in 2004. In the United States, Georgia's cleanup efforts expanded to include "Rivers Alive" activities, increasing statewide participation to 22,198 volunteers.

2004 International Coastal Cleanup - Worldwide Participation



2004 ICC: New York

During the 2004 ICC in New York, 7,705 volunteers came out to clean-up shorelines and waterways. Volunteers covered 350 miles, picking up 251,031 debris items that weighed 216,212 pounds. Among ICC participants in New York were 56 divers, who removed 2,111 pounds of debris from below the water's surface.

In New York, cigarettes, caps and lids, and food wrappers accounted for nearly half of all the debris items collected.

Overall, 69 percent of the debris found in New York originated from land-based recreational activities such as picnics, festivals, sports, and days at the beach. Litter washed from streets, parking lots, and storm drains also contributed to this category of debris. Worldwide, shoreline and recreational activities accounted for 61 percent of the debris collected.

Smoking-related activities, in the form of cigarette filters, cigar tips, and tobacco packaging, accounted for 20 percent of the

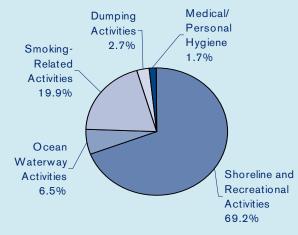
debris found in New York. Globally, debris from smoking-related activities made up 21 percent of the debris collected.

Debris items from ocean and waterway activities-activities that originate offshore-accounted for six percent of the debris found in New York. Worldwide ocean and waterway activities represented only 11 percent of the debris collected during the Cleanup.

Each year, the ICC tabulates a "Top Ten" list of the 10 most prevalent items found during the Cleanup. In addition to being some of the most abundant items, the Top Ten also account for 80 percent of all the debris found in New York. The top three items alone – cigarettes, caps and lids, and food wrappers – account for nearly half of all debris in New York. Cigarettes, the number one item in New York, comprised nearly one quarter of the 251 thousand debris items.

Since 1990, most of the items found during the ICC have been waste from consumable goods—from cigarettes to prepackaged food





"TOP TEN" DEBRIS ITEMS

		Percent
Debris Items	Amount	of Total
1. Cigarettes/Cigarette	41,457	16.5%
Filters		
2. Caps/Lids	34,178	13.6%
3. Food Wrappers and	32,233	12.8%
Containers		
4. Beverage Bottles	17,606	7.0%
(Plastic) 2 liters or less		
5. Cups/Plates/Forks/	17,575	7.0%
Knives/Spoons		
6. Beverage Bottles (Glass)	15,179	6.1%
7. Bags	14,130	5.6%
8. Straws/Stirrers	13,647	5.4%
9. Beverage Cans	11,189	4.5%
10. Balloons	4,254	1.7%
Totals:	201,448	80.2%

and beverage products—that are discarded after the product is used or consumed. Pinpointing these types of debris and the activities that cause them aids in the tracing of sources of debris and in the creation of educational programs to help people develop a new mind set toward littering and purchasing.

DANGERS OF MARINE DEBRIS

Each year, volunteers find animals caught in a variety of debris. The results can be deadly: debris entanglement can cause lethal cuts, hampered mobility, suffocation, drowning and debris ingestion—when animals mistake debris for food—can lead to strangulation and starvation.

In 2004, volunteers found 186 animals entangled in debris worldwide. Discarded fishing line was responsible for nearly half of all entanglements, with rope and fishing nets closely following. Even though these items represent less than 10 percent of the total number of recorded items, debris such as fishing line, plastic bags, rope, and balloons can be more hazardous to wildlife. For a list of entangled animals found during the ICC in New York, refer to the table in Appendix.

While marine mammal entanglements may be the most well known, they comprise only 10 percent of the total entanglements found during the 2004 ICC. Fish and invertebrates accounted for more than half of all recorded entanglements. Seabirds are also victims of debris: volunteers found 46 entangled birds, nearly a quarter of the total entangled wildlife. These findings illustrate that marine debris affects all aspects of the ocean ecosystem, even those species that spend less time in and on the water.

New York: Dangerous Deb Bags	14,130
Balloons	4,254
Crab/Lobster/Fish Traps	361
Fishing Line	1,757
Fishing Nets	271
Plastic Sheeting/Tarps	3,259
Rope	3,092
Six-Pack Holders	1,485
Strapping Bands	1,334
Syringes	329
Total	30,272

WHAT'S BEING DONE?

Marine debris is such a pressing issue that the U.S. Commission on Ocean Policy dedicated an entire chapter on the subject in its 2004 report, which was designed to create a blueprint for a new comprehensive national ocean policy. In it, the Commission recommended several actions the United States should take to address the problem of marine debris. The report tasked the National Oceanic and Atmospheric Administration (NOAA) to work in concert with the



Environmental Protection Agency to establish a marine debris management program that would focus on education and outreach, working with communities and industry, and improving debris source identification, monitoring, and research. The report also encouraged the agencies to coordinate and implement expanded marine debris control efforts. In addition, the Commission urged the United States work on reducing derelict fishing gear and ensuring adequate facilities for garbage disposal from ships. In its findings, the Commission cited data from the ICC on several occasions.

Interest in curbing marine debris has also sparked recent Congressional action. Senators Daniel Inouye (HI) and Ted Stevens (AK) introduced the Marine Debris Research and Reduction Act to Congress in early 2005. Among other actions, the bill creates a new marine debris program within NOAA, enhances Coast Guard efforts against marine debris, and enacts a federal marine debris information clearinghouse. While it has yet to become law, the bill has garnered support in the U.S. Department of Commerce and NOAA.

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- Reduce, reuse, and recycle.
- Look for alternative materials or avoid excessive packaging when deciding on purchases.
- Cut the rings of six-pack holders. This lowers the risk of entanglement to marine animals if the holders do make it out to sea.
- Participate in local beach, river, or stream cleanups.
- Educate others about marine debris
- Get involved locally

Debris items collected during the 2004 ICC in New York

DEBRIS ITEMS	TOTAL
Shoreline and Recreational Activities	
Bags	14,130
Balloons	4,254
Beverage Bottles (Glass)	15,179
Beverage Bottles (Plastic) 2 liters or less	17,606
Beverage Cans	11,189
Caps/Lids	34,178
Clothing/Shoes	3,596
Cups/Plates/Forks/ Knives/Spoons	17,575
Food Wrappers and Containers	32,233
Pull Tabs	3,174
Shotgun Shells/Wadding	1,904
Six-Pack Holders	1,485
Straws/Stirrers	13,647
Toys	3,518
Ocean and Waterway Activities	3,310
Bait Containers/Packaging	1,597
Bleach/Cleaner Bottles	815
Buoys/Floats	1,368
Crab/Lobster/Fish Traps	361
Crates	189
Fishing Line	1,757
Fishing Lures/Light Sticks	831
Fishing Nets	271
Light Bulbs/Tubes	346
Oil/Lube Bottles	883
Pallets	176
Plastic Sheeting/Tarps	3,259
Rope	3,092
Strapping Bands	1,334
Smoking-Related Activities	1,004
Cigar Tips	2 600
* .	3,698
Cigarette Lighters	1,825
Cigarettes/Cigarette Filters	41,457 2,974
Tobacco Packaging/Wrappers	2,974
Dumping Activities	FC
55-Gallon Drums	56
Appliances (refrigerators, washers, etc.)	123
Batteries	533
Building Materials	4,093
Cars/Car Parts	1,441
Tires	502
Medical and Personal Hygiene	
Condoms	792
Diapers	470
Syringes	329
Tampons/Tampon Applicators	2,791
Totals	251,031

New York 2004 ICC - Entangled Animals

Entangling Debris	Birds	Fishes	Invertebrates	Mammals	Total
balloon ribbon/string	2	0	0	0	2
fishing line	2	2	3	0	7
fishing nets	0	3	1	0	4
miscellaneous	0	0	5	1	6
plastic bags	1	0	0	0	1
rope	0	0	3	1	4
Totals	5	5	12	2	24

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Summary Report
Ohio

2004 State Coordinator: Linda Zmudzinski / Jill Woodyard, Ohio Lake Erie Commission

The Ocean Conservancy
Office of Pollution Prevention and Monitoring
1432 N Great Neck Rd, Suite 103
Virginia Beach, VA 23454 USA









THE INTERNATIONAL COASTAL CLEANUP

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

From plastic pieces littering the shores of remote islands to furnishings and car parts clogging rivers and streams to fishing nets and line smothering and entangling coral reefs, marine debris is one of the most insidious problems facing our oceans today. Virtually no shoreline or beach on earth is free from trash. And the scene looks much the same underwater, where the ocean bottom becomes a veritable trash can for discarded goods.

The truth is, every piece of trash has the chance of becoming marine debris. And once it does, it can stay that way for weeks, months, and even years, affecting ocean life and habitats for miles. That's because today's world relies heavily on synthetic materials—such as beverage bottles, cigarette butts, and fishing line—that are durable and highly buoyant. Once this debris enters oceans and waterways, it degrades slowly and can travel thousands of miles away from its point of origin. These properties make marine debris one of the most difficult ocean problems to address.

Not that people aren't trying: for the 19th year, volunteers across the globe joined together on September 18, 2004 to remove debris from the world's oceans, streams, and waterways as part of the International Coastal Cleanup (ICC).

Today, the ICC is held around every major body of water in the world. But the Cleanup isn't just about pollution cleanup; it's also about pollution prevention. The ICC educates and empowers people to take action and become part of the solution. In addition to collecting and removing debris, volunteers record the types of debris they pick up. The Ocean Conservancy compiles and analyzes this information each year to

LAWS AND TREATIES

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(www.epa.gov/region5/water/cwa.htm)

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

identify the activities and general sources causing the debris. The final information is then used to educate the public, business, industry, and government officials about the marine debris problem.

THE 2004 ICC: A GLOBAL PHENOMENON

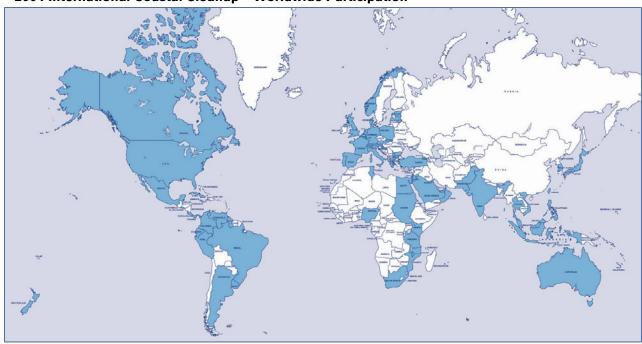
In 2004, volunteers from the United States were joined by people from 87 additional countries in cleaning up debris from our beaches, rivers, and lakes. Worldwide, more than 305,000 people removed over 7.7 million pounds of debris from more than 11,000 miles of shoreline. More than 6,600 divers participated in underwater cleanups, gathering over 155,000 pounds of debris from 382 miles of riverbed and seafloor.

The 2004 Cleanup-held on September 18, 2004-saw growth in several areas. Five new countries-Brunei, Malawi, Samoa, Sudan, and Tunisia-joined in the cleanup efforts. Volunteer participation also increased in several countries. In India, 20,160 people volunteered



for the ICC—an increase of 9,044 volunteers from last year. Nigeria more than quadrupled its volunteer participation, going from 1,632 volunteers in 2003 to 7,319 in 2004. In the United States, Georgia's cleanup efforts expanded to include "Rivers Alive" activities, increasing statewide participation to 22,198 volunteers.

2004 International Coastal Cleanup - Worldwide Participation



2004 ICC: Ohio

During the 2004 ICC in Ohio, 516 volunteers came out to clean-up shorelines and waterways. Volunteers covered 40 miles, picking up 29,500 debris items that weighed 15,891 pounds. Among ICC participants in Ohio were 7 divers, who removed 115 pounds of debris from below the water's surface. In total 4,135 debris items were retrieved from 0.8 miles of underwater area.

In Ohio, food wrappers, cigar tips, and cigarettes accounted for over one quarter of all the debris items collected.

Overall, 69 percent of the debris found in Ohio originated from land-based recreational activities such as picnics, festivals, sports, and days at the beach. Litter washed from streets, parking lots, and storm drains also contributed to this category of debris. Worldwide, shoreline and recreational activities accounted for 61 percent of the debris collected.

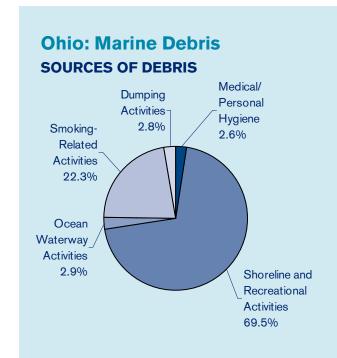
Smoking-related activities, in the form of cigarette filters, cigar tips, and tobacco

packaging, accounted for 22 percent of the debris found in Ohio. Globally, debris from smoking-related activities made up 21 percent of the debris collected.

Debris items from ocean and waterway activities-activities that originate offshore-accounted for three percent of the debris found in Ohio. Worldwide ocean and waterway activities represented only 11 percent of the debris collected during the Cleanup.

Each year, the ICC tabulates a "Top Ten" list of the 10 most prevalent items found during the Cleanup. In addition to being some of the most abundant items, the Top Ten also account for 83 percent of all the debris found in Ohio. The top three items alone – food wrappers, cigar tips, and cigarettes – account for over one quarter of all debris in Ohio. Food wrappers, the number one item in Ohio, comprised three percent of the 30 thousand debris items.

Since 1990, most of the items found during the ICC have been waste from consumable



"TOP TEN" DEBRIS ITEMS

		i ercent
Debris Items	Amount	of Total
1. Food Wrappers and	5,199	17.6%
Containers		
2. Cigar Tips	3,057	10.4%
3. Beverage Cans	2,847	9.7%
4. Cigarettes/Cigarette	2,697	9.1%
Filters		
5. Beverage Bottles	2,125	7.2%
(Plastic) 2 liters or less		
6. Bags	2,023	6.9%
7. Cups/Plates/Forks/	1,885	6.4%
Knives/Spoons		
8. Beverage Bottles (Glass)	1,657	5.6%
9. Caps/Lids	1,603	5.4%
10. Straws/Stirrers	1,341	4.6%
Totals:	24,434	82.9%

Percent

goods—from cigarettes to prepackaged food and beverage products—that are discarded after the product is used or consumed. Pinpointing these types of debris and the activities that cause them aids in the tracing of sources of debris and in the creation of educational programs to help people develop a new mind set toward littering and purchasing.

DANGERS OF MARINE DEBRIS

Each year, volunteers find animals caught in a variety of debris. The results can be deadly: debris entanglement can cause lethal cuts, hampered mobility, suffocation, drowning and debris ingestion—when animals mistake debris for food—can lead to strangulation and starvation.

In 2004, volunteers found 186 animals entangled in debris worldwide. Discarded fishing line was responsible for nearly half of all entanglements, with rope and fishing nets closely following. Even though these items represent less than 10 percent of the total number of recorded items, debris such as fishing line, plastic bags, rope, and balloons can be more hazardous to wildlife.

While marine mammal entanglements may be the most well known, they comprise only 10 percent of the total entanglements found during the 2004 ICC. Fish and invertebrates accounted for more than half of all recorded entanglements. Seabirds are also victims of debris: volunteers found 46 entangled birds, nearly a quarter of the total entangled wildlife. These findings illustrate that marine debris affects all aspects of the ocean ecosystem, even those species that spend less time in and on the water.

WHAT'S BEING DONE?

Marine debris is such a pressing issue that the U.S. Commission on Ocean Policy dedicated an entire chapter on the subject in its 2004 report, which was designed to create a

Ohio: Dangerous Debris It	ems
Bags	2,023
Balloons	185
Crab/Lobster/Fish Traps	2
Fishing Line	76
Fishing Nets	6
Plastic Sheeting/Tarps	208
Rope	95
Six-Pack Holders	75
Strapping Bands	81
Syringes	16
Total	2,767

blueprint for a new comprehensive national ocean policy. In it, the Commission recommended several actions the United States should take to address the problem of marine debris. The report tasked the National Oceanic and Atmospheric Administration (NOAA) to work in concert with the Environmental Protection Agency to establish a marine debris management program that would focus on education and outreach, working with communities and industry, and improving debris source identification, monitoring, and research. The report also encouraged the agencies to



coordinate and implement expanded marine debris control efforts. In addition, the Commission urged the United States work on reducing derelict fishing gear and ensuring adequate facilities for garbage disposal from ships. In its findings, the Commission cited data from the ICC on several occasions.

Interest in curbing marine debris has also sparked recent Congressional action. Senators Daniel Inouye (HI) and Ted Stevens (AK) introduced the Marine Debris Research and Reduction Act to Congress in early 2005. Among other actions, the bill creates a new marine debris program within NOAA, enhances Coast Guard efforts against marine debris, and enacts a federal marine debris information clearinghouse. While it has yet to become law, the bill has garnered support in the U.S. Department of Commerce and NOAA.

Data from the last decade indicates that the majority of people do not consider their contributions to marine debris to be significant enough to warrant a change in personal behavior. This is the real problem that the ICC seeks to solve: to increase people's awareness of their contribution to the problem and inspire change. Consequently, continued education on the harmful effects debris has on our oceans, waterways, and our own lives is vital to help alter the behaviors that cause this problem. The 2004 ICC report is one of several tools The Ocean Conservancy uses in its ongoing efforts to educate society and create solutions to this long-standing problem.

WHAT YOU CAN DO

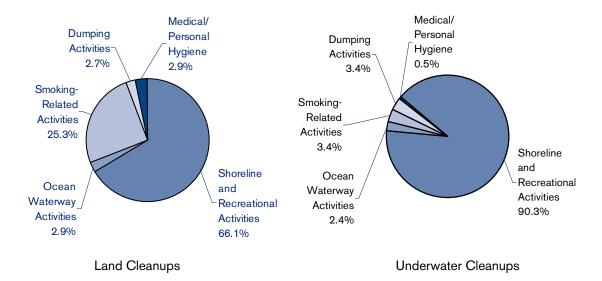
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- Dispose of trash properly. This helps to reduce the amount of trash that washes into waterways from storm drains.
- Reduce, reuse, and recycle.
- Look for alternative materials or avoid excessive packaging when deciding on purchases.
- Cut the rings of six-pack holders. This lowers the risk of entanglement to marine animals if the holders do make it out to sea
- Participate in local beach, river, or stream cleanups.
- Educate others about marine debris
- Get involved locally

Debris items collected during the 2004 ICC in Ohio

Debris items collected during the 2004 ICC in			
DEBRIS ITEMS	LAND	UNDERWATER	TOTAL
Shoreline and Recreational Activities			
Bags	1,393	630	2,023
Balloons	178	7	185
Beverage Bottles (Glass)	1,389	268	1,657
Beverage Bottles (Plastic) 2 liters or less	1,867	258	2,125
Beverage Cans	2,485	362	2,847
Caps/Lids	1,491	112	1,603
Clothing/Shoes	426	52	478
Cups/Plates/Forks/ Knives/Spoons	1,530	355	1,885
Food Wrappers and Containers	3,685	1,514	5,199
Pull Tabs	223	11	234
Shotgun Shells/Wadding	461	1	462
Six-Pack Holders	63	12	75
Straws/Stirrers	1,231	110	1,341
Toys	345	40	385
Ocean and Waterway Activities			
Bait Containers/Packaging	106	28	134
Bleach/Cleaner Bottles	58	1	59
Buoys/Floats	15	1	16
Crab/Lobster/Fish Traps	2	0	2
Crates	11	0	11
Fishing Line	67	9	76
Fishing Lures/Light Sticks	47	0	47
Fishing Nets	6	0	6
Light Bulbs/Tubes	10	1	11
Oil/Lube Bottles	79	13	92
Pallets	3	0	3
Plastic Sheeting/Tarps	170	38	208
Rope	86	9	95
Strapping Bands	81	0	81
Smoking-Related Activities			
Cigar Tips	3,053	4	3,057
Cigarette Lighters	303	7	310
Cigarettes/Cigarette Filters	2,588	109	2,697
Tobacco Packaging/Wrappers	486	22	508
Dumping Activities			
55-Gallon Drums	10	4	14
Appliances (refrigerators, washers, etc.)	19	4	23
Batteries	26	3	29
Building Materials	400	72	472
Cars/Car Parts	163	51	214
Tires	65	8	73
Medical and Personal Hygiene	30		10
Condoms	107	7	114
Diapers	33	1	34
Syringes	13	3	16
Tampons/Tampon Applicators	591	8	599
Totals	25,365	4,135	29,500

Ohio 2004 ICC - Sources of Marine Debris - Land and Underwater Cleanups



Ohio 2004 ICC "Top Ten" Debris Items - Land and Underwater Cleanups

Land Cleanups Only

		Percent
Debris Items	Amount	of Total
1. Food Wrappers and	3,685	14.5%
Containers		
2. Cigar Tips	3,053	12.0%
3. Cigarettes/Cigarette	2,588	10.2%
Filters		
4. Beverage Cans	2,485	9.8%
5. Beverage Bottles	1,867	7.4%
(Plastic) 2 liters or less		
6. Cups/Plates/Forks/	1,530	6.0%
Knives/Spoons		
7. Caps/Lids	1,491	5.9%
8. Bags	1,393	5.5%
9. Beverage Bottles (Glass)	1,389	5.5%
10. Straws/Stirrers	1,231	4.9%
Totals:	20,712	81.7%

Underwater Cleanups Only

		Percent
Debris Items	Amount	of Total
1. Food Wrappers and	1,514	36.6%
Containers		
2. Bags	630	15.2%
3. Beverage Cans	362	8.8%
4. Cups/Plates/Forks/	355	8.6%
Knives/Spoons		
5. Beverage Bottles (Glass)	268	6.5%
6. Beverage Bottles	258	6.2%
(Plastic) 2 liters or less		
7. Caps/Lids	112	2.7%
8. Straws/Stirrers	110	2.7%
9. Cigarettes/Cigarette	109	2.6%
Filters		
10. Building Materials	72	1.7%
Totals:	3,790	91.6%

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2004 International Coastal Cleanup

Summary Report Pennsylvania

2004 State Coordinator: Leni Herr, Verizon TelecomPioneers

The Ocean Conservancy
Office of Pollution Prevention and Monitoring
1432 N Great Neck Rd, Suite 103
Virginia Beach, VA 23454 USA

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2004 International Coastal Cleanup - Worldwide Participation



2004 ICC: Pennsylvania

During the 2004 ICC in Pennsylvania, 618 volunteers came out to clean-up shorelines and waterways. Volunteers covered 47 miles, picking up 26,635 debris items that weighed 46,798 pounds.

In Pennsylvania, cigarettes, food wrappers, and caps and lids accounted for nearly half of all the debris items collected.

Overall, 60 percent of the debris found in Pennsylvania originated from land-based recreational activities such as picnics, festivals, sports, and days at the beach. Litter washed from streets, parking lots, and storm drains also contributed to this category of debris. Worldwide, shoreline and recreational activities accounted for 61 percent of the debris collected.

Smoking-related activities, in the form of cigarette filters, cigar tips, and tobacco packaging, accounted for 33 percent of the debris found in Pennsylvania. Globally, debris from smoking-related activities made up 21

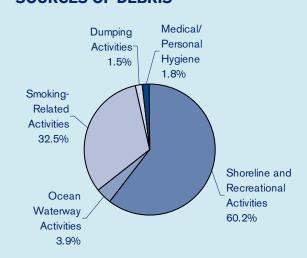
percent of the debris collected.

Debris items from ocean and waterway activities-activities that originate offshore-accounted for four percent of the debris found in Pennsylvania. Worldwide ocean and waterway activities represented only 11 percent of the debris collected during the Cleanup.

Each year, the ICC tabulates a "Top Ten" list of the 10 most prevalent items found during the Cleanup. In addition to being some of the most abundant items, the Top Ten also account for 85 percent of all the debris found in Pennsylvania. The top three items alone – cigarettes, food wrappers, and caps and lids – account for nearly half of all debris in Pennsylvania. Cigarettes, the number one item in Pennsylvania, comprised over one quarter of the 27 thousand debris items.

Since 1990, most of the items found during the ICC have been waste from consumable goods–from cigarettes to prepackaged food and beverage products–that are discarded

Pennsylvania: Marine Debris SOURCES OF DEBRIS



"TOP TEN" DEBRIS ITEMS

		Percent
Debris Items	Amount	of Total
1. Cigarettes/Cigarette Filters	6,857	25.7%
2. Food Wrappers and	3,302	12.4%
Containers		
3. Caps/Lids	2,656	10.0%
4. Straws/Stirrers	2,456	9.2%
5. Cups/Plates/Forks/	1,540	5.8%
Knives/Spoons		
6. Beverage Cans	1,512	5.7%
7. Cigar Tips	1,430	5.4%
8. Beverage Bottles (Plastic)	1,388	5.2%
2 liters or less		
9. Bags	822	3.1%
10. Beverage Bottles (Glass)	611	2.3%
Totals:	22,574	84.8%

after the product is used or consumed. Pinpointing these types of debris and the activities that cause them aids in the tracing of sources of debris and in the creation of educational programs to help people develop a new mind set toward littering and purchasing.

DANGERS OF MARINE DEBRIS

Each year, volunteers find animals caught in a variety of debris. The results can be deadly: debris entanglement can cause lethal cuts, hampered mobility, suffocation, drowning and debris ingestion—when animals mistake debris for food—can lead to strangulation and starvation.

In 2004, volunteers found 186 animals entangled in debris worldwide. Discarded fishing line was responsible for nearly half of all entanglements, with rope and fishing nets closely following. Even though these items represent less than 10 percent of the total number of recorded items, debris such as fishing line, plastic bags, rope, and balloons can be more hazardous to wildlife. For a list of entangled animals found during the ICC in Pennsylvania, refer to the table in Appendix.

While marine mammal entanglements may be the most well known, they comprise only 10 percent of the total entanglements found during the 2004 ICC. Fish and invertebrates accounted for more than half of all recorded entanglements. Seabirds are also victims of debris: volunteers found 46 entangled birds, nearly a quarter of the total entangled wildlife. These findings illustrate that marine debris affects all aspects of the ocean ecosystem, even those species that spend less time in and on the water.

WHAT'S BEING DONE?

Marine debris is such a pressing issue that the U.S. Commission on Ocean Policy dedicated an entire chapter on the subject in its 2004 report, which was designed to create a

Pennsylvania: Dangerous I	Debris
Items	
Bags	822
Balloons	330
Crab/Lobster/Fish Traps	0
Fishing Line	164
Fishing Nets	10
Plastic Sheeting/Tarps	53
Rope	142
Six-Pack Holders	73
Strapping Bands	120
Syringes	8
Total	1,722

blueprint for a new comprehensive national ocean policy. In it, the Commission recommended several actions the United States should take to address the problem of marine debris. The report tasked the National Oceanic and Atmospheric Administration (NOAA) to work in concert with the Environmental Protection Agency to establish a marine debris management program that would focus on education and outreach, working with communities and industry, and improving debris source identification, monitoring, and research. The report also encouraged the agencies to



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- Educate others about marine debris
- Get involved locally

Debris items collected during the 2004 ICC in Pennsylvania

DEBRIS ITEMS	TOTAL
Shoreline and Recreational Activities	<u> </u>
Bags	822
Balloons	330
Beverage Bottles (Glass)	611
Beverage Bottles (Plastic) 2 liters or less	1,388
Beverage Cans	1,512
Caps/Lids	2,656
Clothing/Shoes	266
Cups/Plates/Forks/ Knives/Spoons	1,540
Food Wrappers and Containers	3,302
Pull Tabs	427
Shotgun Shells/Wadding	225
Six-Pack Holders	73
Straws/Stirrers	2,456
Toys	439
Ocean and Waterway Activities	+09
Bait Containers/Packaging	273
Bleach/Cleaner Bottles	64
	38
Buoys/Floats Crab/Lobster/Fish Traps	
Crates	3
	164
Fishing Line	59
Fishing Lures/Light Sticks Fishing Nets	10
Light Bulbs/Tubes	20
Oil/Lube Bottles	89
Pallets	4
Plastic Sheeting/Tarps	53
	142
Rope Stropping Bondo	120
Strapping Bands	120
Smoking-Related Activities	1 400
Cigar Tips	1,430
Cigarette Lighters	95
Cigarettes/Cigarette Filters	6,857
Tobacco Packaging/Wrappers	286
Dumping Activities	
55-Gallon Drums	13
Appliances (refrigerators, washers, etc.)	45
Batteries	27
Building Materials	151
Cars/Car Parts	72
Tires	95
Medical and Personal Hygiene	
Condoms	82
Diapers	113
Syringes	8
Tampons/Tampon Applicators	275
Totals	26,635

Pennsylvania 2004 ICC - Entangled Animals

Entangling Debris	Fishes		
fishing line	1		
Totals	1		

2004 ICC HONOR ROLL OF DONORS

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Summary Report
Wisconsin

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THE INTERNATIONAL COASTAL CLEANUP

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

From plastic pieces littering the shores of remote islands to furnishings and car parts clogging rivers and streams to fishing nets and line smothering and entangling coral reefs, marine debris is one of the most insidious problems facing our oceans today. Virtually no shoreline or beach on earth is free from trash. And the scene looks much the same underwater, where the ocean bottom becomes a veritable trash can for discarded goods.

The truth is, every piece of trash has the chance of becoming marine debris. And once it does, it can stay that way for weeks, months, and even years, affecting ocean life and habitats for miles. That's because today's world relies heavily on synthetic materials—such as beverage bottles, cigarette butts, and fishing line—that are durable and highly buoyant. Once this debris enters oceans and waterways, it degrades slowly and can travel thousands of miles away from its point of origin. These properties make marine debris one of the most difficult ocean problems to address.

Not that people aren't trying: for the 19th year, volunteers across the globe joined together on September 18, 2004 to remove debris from the world's oceans, streams, and waterways as part of the International Coastal Cleanup (ICC).

Today, the ICC is held around every major body of water in the world. But the Cleanup isn't just about pollution cleanup; it's also about pollution prevention. The ICC educates and empowers people to take action and become part of the solution. In addition to collecting and removing debris, volunteers record the types of debris they pick up. The Ocean Conservancy compiles and analyzes this information each year to

LAWS AND TREATIES

International Convention for the Prevention of Pollution from Ships (MARPOL 73/78): This law provides a comprehensive approach when dealing with ocean dumping by creating international guidelines to prevent ship pollution. MARPOL (enforced by the International Maritime Organization www.imo.org) has six annexes covering oil discharge, hazardous liquid control, hazardous material transport, sewage discharge, plastic and garbage disposal, and air pollution. As of March 2005, 119 countries have ratified Annex V, which controls the disposal of plastics and garbage into the oceans.

Marine Plastic Pollution Research and Control Act (MPPRCA): To implement Annex V of MARPOL, each individual country must develop its own national implementation legislation. The U.S. Congress created the MPPRCA to implement Annex V in the United States. Under MPPRCA, it is illegal to throw plastic trash off any vessel within the U.S. Exclusive Economic Zone (within 200 nautical miles of the U.S. shore). It is also illegal to throw any other garbage overboard while navigating U.S. waters (including inland waters) or within three miles of shore.

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

(www.epa.gov/region5/water/cwa.htm)

Beaches Environmental Assessment and Coastal Health Act of 2000 (B.E.A.C.H. Act):

This act amended the Clean Water Act, requiring adoption of minimum health-based water quality criteria, comprehensive water testing, and notification of the public when water contamination levels are unsafe.

(www.epa.gov/waterscience/beaches/act.html)

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

identify the activities and general sources causing the debris. The final information is then used to educate the public, business, industry, and government officials about the marine debris problem.

THE 2004 ICC: A GLOBAL PHENOMENON

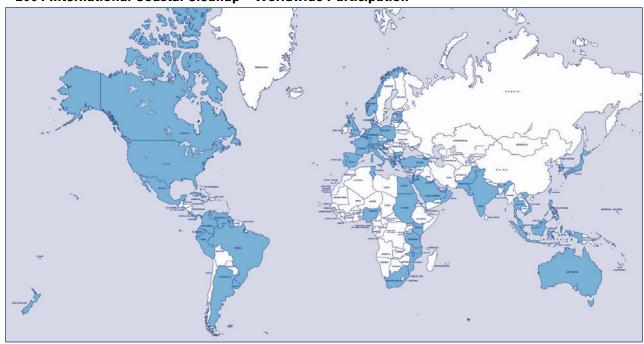
In 2004, volunteers from the United States were joined by people from 87 additional countries in cleaning up debris from our beaches, rivers, and lakes. Worldwide, more than 305,000 people removed over 7.7 million pounds of debris from more than 11,000 miles of shoreline. More than 6,600 divers participated in underwater cleanups, gathering over 155,000 pounds of debris from 382 miles of riverbed and seafloor.

The 2004 Cleanup-held on September 18, 2004-saw growth in several areas. Five new countries-Brunei, Malawi, Samoa, Sudan, and Tunisia-joined in the cleanup efforts. Volunteer participation also increased in several countries. In India, 20,160 people volunteered



for the ICC—an increase of 9,044 volunteers from last year. Nigeria more than quadrupled its volunteer participation, going from 1,632 volunteers in 2003 to 7,319 in 2004. In the United States, Georgia's cleanup efforts expanded to include "Rivers Alive" activities, increasing statewide participation to 22,198 volunteers.

2004 International Coastal Cleanup - Worldwide Participation



2004 ICC: Wisconsin

During the 2004 ICC in Wisconsin, 901 volunteers came out to clean-up shorelines and waterways. Volunteers covered 34 miles, picking up 30,053 debris items that weighed 2,711 pounds. Among ICC participants in Wisconsin were 54 divers, who removed 415 pounds of debris from below the water's surface. In total 991 debris items were retrieved from 5.5 miles of underwater area.

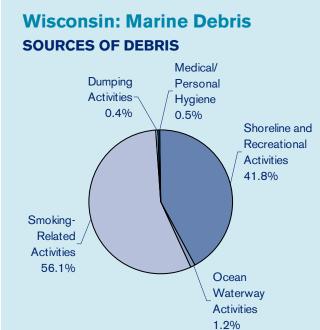
In Wisconsin, cigarettes, food wrappers, and caps and lids accounted for over half of all the debris items collected.

Overall, 42 percent of the debris found in Wisconsin originated from land-based recreational activities such as picnics, festivals, sports, and days at the beach. Litter washed from streets, parking lots, and storm drains also contributed to this category of debris. Worldwide, shoreline and recreational activities accounted for 61 percent of the debris collected.

Smoking-related activities, in the form of cigarette filters, cigar tips, and tobacco packaging, accounted for 56 percent of the debris found in Wisconsin. Globally, debris from smoking-related activities made up 21 percent of the debris collected.

Debris items from ocean and waterway activities-activities that originate offshore-accounted for one percent of the debris found in Wisconsin. Worldwide ocean and waterway activities represented only 11 percent of the debris collected during the Cleanup.

Each year, the ICC tabulates a "Top Ten" list of the 10 most prevalent items found during the Cleanup. In addition to being some of the most abundant items, the Top Ten also account for 93 percent of all the debris found in Wisconsin. The top three items alone – cigarettes, food wrappers, and caps and lids – account for over half of all debris in Wisconsin. Cigarettes, the number one item in Wisconsin, comprised over half of the 30 thousand debris items.



"TOP TEN" DEBRIS ITEMS

		Percent
Debris Items	Amount	of Total
1. Cigarettes/Cigarette Filters	15,988	53.2%
2. Food Wrappers and	3,019	10.1%
Containers		
3. Caps/Lids	2,337	7.8%
4. Straws/Stirrers	1,250	4.2%
5. Bags	1,104	3.7%
6. Beverage Bottles (Plastic)	896	3.0%
2 liters or less		
7. Cups/Plates/Forks/	892	3.0%
Knives/Spoons		
8. Beverage Cans	889	3.0%
9. Beverage Bottles (Glass)	844	2.8%
10. Cigar Tips	633	2.1%
Totals:	27,852	92.9%

Since 1990, most of the items found during the ICC have been waste from consumable goods—from cigarettes to prepackaged food and beverage products—that are discarded after the product is used or consumed. Pinpointing these types of debris and the activities that cause them aids in the tracing of sources of debris and in the creation of educational programs to help people develop a new mind set toward littering and purchasing.

DANGERS OF MARINE DEBRIS

Each year, volunteers find animals caught in a variety of debris. The results can be deadly: debris entanglement can cause lethal cuts, hampered mobility, suffocation, drowning and debris ingestion—when animals mistake debris for food—can lead to strangulation and starvation.

In 2004, volunteers found 186 animals entangled in debris worldwide. Discarded fishing line was responsible for nearly half of all entanglements, with rope and fishing nets closely following. Even though these items represent less than 10 percent of the total number of recorded items, debris such as fishing line, plastic bags, rope, and balloons can be more hazardous to wildlife.

While marine mammal entanglements may be the most well known, they comprise only 10 percent of the total entanglements found during the 2004 ICC. Fish and invertebrates accounted for more than half of all recorded entanglements. Seabirds are also victims of debris: volunteers found 46 entangled birds, nearly a quarter of the total entangled wildlife. These findings illustrate that marine debris affects all aspects of the ocean ecosystem, even those species that spend less time in and on the water.

Wisconsin: Dangerous Debr	is Items
Bags	1,104
Balloons	353
Fishing Line	40
Fishing Nets	7
Plastic Sheeting/Tarps	47
Rope	44
Six-Pack Holders	25
Strapping Bands	40
Syringes	20
Total	1,680

WHAT'S BEING DONE?

Marine debris is such a pressing issue that the U.S. Commission on Ocean Policy dedicated an entire chapter on the subject in its 2004 report, which was designed to create a blueprint for a new comprehensive national ocean policy. In it, the Commission recommended several actions the United States should take to address the problem of marine debris. The report tasked the National Oceanic and Atmospheric Administration (NOAA) to work in concert with the Environmental Protection Agency to establish a marine debris management program that would focus on education and outreach, working with



communities and industry, and improving debris source identification, monitoring, and research. The report also encouraged the agencies to coordinate and implement expanded marine debris control efforts. In addition, the Commission urged the United States work on reducing derelict fishing gear and ensuring adequate facilities for garbage disposal from ships. In its findings, the Commission cited data from the ICC on several occasions.

Interest in curbing marine debris has also sparked recent Congressional action. Senators Daniel Inouye (HI) and Ted Stevens (AK) introduced the Marine Debris Research and Reduction Act to Congress in early 2005. Among other actions, the bill creates a new marine debris program within NOAA, enhances Coast Guard efforts against marine debris, and enacts a federal marine debris information clearinghouse. While it has yet to become law, the bill has garnered support in the U.S. Department of Commerce and NOAA.

Data from the last decade indicates that the majority of people do not consider their contributions to marine debris to be significant enough to warrant a change in personal behavior. This is the real problem that the ICC seeks to solve: to increase people's awareness of their contribution to the problem and inspire change. Consequently, continued education on the harmful effects debris has on our oceans, waterways, and our own lives is vital to help alter the behaviors that cause this problem. The 2004 ICC report is one of several tools The Ocean Conservancy uses in its ongoing efforts to educate society and create solutions to this long-standing problem.

WHAT YOU CAN DO

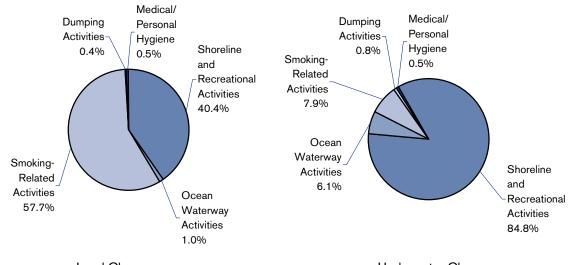
Marine debris is one of the most frustrating environmental threats because it is easily one of the most preventable: the solution is in our hands. Consequently, individual action to curb marine debris is just as important as legislative or political edicts, if not more so. Here are some steps you can take to do your part to reduce the amount of marine debris that enters our oceans and waterways:

- Dispose of trash properly. This helps to reduce the amount of trash that washes into waterways from storm drains.
- Reduce, reuse, and recycle.
- Look for alternative materials or avoid excessive packaging when deciding on purchases.
- Cut the rings of six-pack holders. This lowers the risk of entanglement to marine animals if the holders do make it out to sea.
- Participate in local beach, river, or stream cleanups.
- Educate others about marine debris
- Get involved locally

Debris items collected during the 2004 ICC in Wisconsin

Debris items collected during the 2004 ICC in DEBRIS ITEMS	LAND	UNDERWATER	TOTAL
Shoreline and Recreational Activities	D ((1)	ONDERWATER	101712
Bags	1,064	40	1,104
Balloons	352	1	353
Beverage Bottles (Glass)	745	99	844
Beverage Bottles (Plastic) 2 liters or less	755	141	896
Beverage Cans	634	255	889
Caps/Lids	2,275	62	2,337
Clothing/Shoes	434	41	475
Cups/Plates/Forks/ Knives/Spoons	866	26	892
Food Wrappers and Containers	2,889	130	3,019
Pull Tabs	2,009	21	107
Shotgun Shells/Wadding	142	5	147
Six-Pack Holders	19	6	25
Straws/Stirrers	1,246	4	1,250
Toys	223	9	232
Ocean and Waterway Activities	220	9	202
	40	2.4	76
Bait Containers/Packaging Bleach/Cleaner Bottles	42	34	76
	6	0	6
Buoys/Floats	10	0	10
Crab/Lobster/Fish Traps	0	0	0
Crates	3	0	3
Fishing Line	32	8	40
Fishing Lures/Light Sticks	45	15	60
Fishing Nets	6	1	7
Light Bulbs/Tubes	1	0	10
Oil/Lube Bottles	12	0	12
Pallets (T	5	0	5
Plastic Sheeting/Tarps	45	2	47
Rope	44	0	44
Strapping Bands	40	0	40
Smoking-Related Activities	000	•	200
Cigar Tips	633	0	633
Cigarette Lighters	73	8	81
Cigarettes/Cigarette Filters	15,930	58	15,988
Tobacco Packaging/Wrappers	139	12	151
Dumping Activities			
55-Gallon Drums	0	0	0
Appliances (refrigerators, washers, etc.)	0	0	0
Batteries	6	0	6
Building Materials	84	6	90
Cars/Car Parts	8	1	9
Tires	17	1	18
Medical and Personal Hygiene			
Condoms	35	3	38
Diapers	50	0	50
Syringes	20	0	20
Tampons/Tampon Applicators	46	2	48
Totals	29,062	991	30,053

Wisconsin 2004 ICC - Sources of Marine Debris - Land and Underwater Cleanups



Land Cleanups Underwater Cleanups

Wisconsin 2004 ICC "Top Ten" Debris Items - Land and Underwater Cleanups

Land Cleanups Only

		Percent
Debris Items	Amount	of Total
1. Cigarettes/Cigarette Filters	15,930	54.8%
2. Food Wrappers and	2,889	9.9%
Containers		
3. Caps/Lids	2,275	7.8%
4. Straws/Stirrers	1,246	4.3%
5. Bags	1,064	3.7%
6. Cups/Plates/Forks/	866	3.0%
Knives/Spoons		
7. Beverage Bottles (Plastic)	755	2.6%
2 liters or less		
8. Beverage Bottles (Glass)	745	2.6%
9. Beverage Cans	634	2.2%
10. Cigar Tips	633	2.2%
Totals:	27,037	93.1%

Underwater Cleanups Only

		Percent
Debris Items	Amount	of Total
1. Beverage Cans	255	25.7%
2. Beverage Bottles (Plastic)	141	14.2%
2 liters or less		
3. Food Wrappers and	130	13.1%
Containers		
4. Beverage Bottles (Glass)	99	10.0%
5. Caps/Lids	62	6.3%
6. Cigarettes/Cigarette Filters	58	5.9%
7. Clothing/Shoes	41	4.1%
8. Bags	40	4.0%
9. Bait Containers/Packaging	34	3.4%
10. Cups/Plates/Forks/	26	2.6%
Knives/Spoons		
Totals:	886	89.3%

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