

Cape Cod Household Hazardous Waste Report for 2002

prepared by

**Cape Cod Commission
3225 Main Street
Barnstable, Massachusetts 02630**

**Margo L. Fenn, Executive Director
John Lipman, Chief Planner/Deputy Director**

Waste Management Staff

**Gregory M. Smith, Planner/Waste Management Specialist
Andrea Adams, Planner/Hazardous Waste Specialist**

Cape Cod Household Hazardous Waste Report for 2002

This report compiles the results of household hazardous waste collections held in 2002 in Cape Cod's 15 towns. It is hoped that this information will be helpful in refining collection programs, increasing their cost-effectiveness and monitoring trends in each town and regionally.

The report includes eight tables. The first and second tables indicate when collection events were held and describe the amount of waste collected. The third and fourth tables indicate the number of households served in each town and the participation rate based on both 1990 and 2000 Census data on year-round households in each town. The fifth and sixth tables detail the total cost per town for waste disposal and provide a cost breakdown per household served. The seventh and eighth tables indicate the number of cars served at each event and the resulting cost per car.

Year-to-year comparisons of household hazardous waste collection events are difficult, particularly since 2000 when many towns began holding multiple collections. As such, it is important to look at trends in the information.

Overall, more towns are holding collections than in the past, costs remain under control thanks to joint bidding and cooperative collections, and towns continue to divert a significant amount of waste that might otherwise be disposed at either SEMASS, the regional waste-to-energy incinerator in Rochester, MA or into septic systems and sewage treatment plants.

Average cost for waste disposal is a good indicator of trends. It reflects the hazardous waste disposal company's cost of providing services to Cape towns, a factor that is influenced by better bidding and prices in the national waste disposal market.

With these points in mind, some conclusions can be drawn from the 2002 data:

- **Regional participation rates remained strong.** The number of towns achieving 5% or greater involvement by their year-round households in 2002 increased from nine towns in 2001 to eleven towns. This was despite a problem with the contractor that prevented the Town of Barnstable, the largest town on Cape Cod, from holding a collection in 2002. Also, for the fourth year, Harwich held multiple collections at a facility located at its transfer station. And, the Towns of Bourne, Falmouth, Mashpee, and Sandwich, together with the Coast Guard Air Station Cape Cod, held a third year of multiple joint collections at a facility started in 2000.

- **Costs continued to remain low: The average cost per household Capewide was \$25.** It should be noted that per participant costs have remained under \$30 for six of the seven years in this report, despite towns increasing the number of events held. And, waste disposal cost figures since 2000 have include additional expenses incurred by towns such as advertising or paying for a police traffic detail.

- **All Cape towns but Barnstable held at least one collection event.** At the same time, Harwich held multiple joint collections with Brewster and Chatham, and the Upper Cape towns again held multiple events. Further, Provincetown joined with Truro and Wellfleet to hold three "reciprocal" collections. This reciprocal agreement began in 2001, and has allowed residents from any of these three Outer Cape towns to attend the collection event in their home town or in the other two towns. Despite the lack of a collection

in Barnstable, the amount of liquid household hazardous waste collected remained high.

2002 was the fourth year Harwich operated a household hazardous waste collection center, and the first year that Brewster, Chatham and Harwich held joint events. The Harwich Highway Department oversees the facility at the town landfill, which was open from mid-May to mid-October. In 2002, Harwich held six events at its collection center.

The four towns bordering the Massachusetts Military Reservation (Bourne, Falmouth, Mashpee, and Sandwich) working with Coast Guard Air Station Cape Cod, also held a second year of events in 2002. Despite increased security concerns after September 11, 2001, the towns continued to work together to hold six events.

In 2002, Provincetown, Truro, and Wellfleet continued to work together to hold three joint collection events. Under this system, each town hosted one of the events, but all three were open to residents from the three towns.

The Cape Cod Commission, in coordination the Cape Cod Cooperative Extension, also continued the effort to distribute a supply of digital thermometers provided by SEMASS at household hazardous waste collections. The intent was to give participants an incentive to properly dispose of mercury-containing fever thermometers. Educational materials distributed before collection events also advised people to bring in other mercury-containing products for proper disposal. Overall, the mercury collection program was a stunning success considering that one mercury thermometer contains about one gram of quicksilver, a highly toxic metal. Information from the Extension indicates that approximately 90 pounds of mercury, including thermometers, thermostats, switches, and blood pressure cuffs was collected by Cape towns and other participating organizations such as the Councils on Aging.

The Cape Cod Commission first began to compile data on one-day events in 1992. However, in the seven years between 1996 and 2002, Cape towns collected approximately 238,567 gallons of household hazardous waste, or an average of 34,081 gallons per year. This figure is only part of the Cape's household hazardous waste management picture. Towns continue to manage other wastes in addition to one-day events. This report does not include paint or related materials swapped or collected for disposal at paint sheds or used oil, oil filters, antifreeze and fluorescent light bulbs collected and disposed of through ongoing municipally run programs.

2002 also saw consolidation in the hazardous waste management industry in the Northeast. Safety-Kleen, a company that itself emerged as the result of the consolidation of two companies in 2001 (Safety-Kleen and Laidlaw), was purchased last year by Clean Harbors. In the 1990s, there were three large, independent companies providing household hazardous waste collection services. Now, there is only one. Some mid-size companies have begun to enter the hazardous waste management arena, in part influenced by other moves at consolidation in the midwest as the waste disposal facilities, including cement kilns, look nationwide for additional feedstocks. These actions may influence waste disposal costs for some time to come.

The Commission staff welcomes comments on this report.

Additional Notes for Table 2

For Wellfleet, entries from 1996 to 2000 indicate collection events for which waste was combined with waste from Truro residents because the towns shared a single collection location.

Joint collections for which the amount of waste shown in Table 2 is combined: Truro and Wellfleet from 1996 to 2000, and Falmouth and Mashpee in 1996.

In 1996, all Cape towns collected a combined total of 4,120 pounds of non-liquid waste in addition to the gallons shown in Table 2.

In 1997, all Cape towns except Dennis, Sandwich, Wellfleet, and Yarmouth collected 3,704 pounds of non-liquid waste in addition to the gallons shown in Table 2.

In 1997, Barnstable collected one pallet of lead-acid batteries, 15 small propane tanks, and 7 large propane tanks that are not reflected in the gallons shown in Table 2 or the additional waste noted above.

In 1998, Bourne, Dennis, Falmouth, Mashpee, Sandwich, and Truro collected 3,714 pounds of non-liquid waste in addition to the gallons shown in Table 2.

In 1999, Barnstable, Bourne, Chatham, Dennis, Eastham, Falmouth, Mashpee, and Provincetown collected 9,705 pounds of waste in addition to the gallons shown in Table 2.

In 2000, Cape towns collected 1,295 gallons of waste at the recycling centers in addition to the gallons shown in Table 2.

The figures shown in Table 2 for Harwich in 1999 to 2002 represent the sum total of all collection events for those years. Harwich also collected 1,760 gallons of paint and gasoline at the recycling center in addition to the gallons shown in Table 2.

The figures shown in Table 2 for Bourne, Falmouth, Mashpee, and Sandwich for 2000 to 2002 represent the sum total of each town's multiple collection events.

In 2001, Cape towns collected 2,200 gallons of waste at the recycling centers in addition to the gallons shown in Table 2.

In 2001, Barnstable collected 72 automobile batteries and dry cell batteries in addition to the gallons shown in Table 2.

In 2002, the towns of Cape Cod and other organizations (Councils on Aging, etc) also collected 90 pounds of mercury, including thermostats, mercury switches, thermometers, blood pressure gauges, and other mercury containing devices.

TABLE 1**Dates Held****Household Hazardous Waste Collections, 1996 - 2002****Cape Cod, Massachusetts**

	Dates Held						
	1996	1997	1998	1999	2000	2001	2002
Barnstable	7-Sep	6-Sep	12-Sep	11-Sep	9-Sep	8-Sep	No collection
Bourne	24-Aug	23-Aug	22-Aug	14-Aug	See Footnote	See Footnote	11-May/13-Jul
Brewster	7-Sep	6-Sep	12-Sep	11-Sep	9-Sep	22-Sep	See Footnote
Chatham	24-Aug	23-Aug	24-Oct	28-Aug	26-Aug	25-Aug	See Footnote
Dennis	1-June/24-Aug	31-May/16-Aug	30-May/12-Sep	22-May/11-Sep	3-June/9-Sep	2-June/ 8-Sep	1-June/ 7-Sep
Eastham	28-Sep	27-Sep	26-Sep	18-Sep	16-Sep	21-Jul	20-Jul
Falmouth	14-Sep	31-May/20-Sep	6-Jun/5-Sep	5-Jun/25-Sep	See Footnote	See Footnote	14-Sep
Harwich	15-Jun	21-Jun	20-Jun	See Footnote	See Footnote	See Footnote	See Footnote
Mashpee	14-Sep	6-Sep	10-Oct	21-Aug	See Footnote	See Footnote	8-June/2-Oct
Orleans	7-Sep	6-Sep	12-Sep	11-Sep	9-Sep	8-Sep	21-Sep
Provincetown	27-Apr	3-May	No collection	22-May	No collection	20-Oct/See Footnote	5-Oct/See Footnote
Sandwich	7-Sep	23-Aug	26-Aug	21-Aug	See Footnote	See Footnote	10-Aug
Truro	24-Aug	23-Aug	22-Aug	21-Aug	19-Aug	18-Aug/See Footnote	17-Aug/See Footnote
Wellfleet	1-Jun/24-Aug	31-May/23-Aug	30-May/22-Aug	22-May/21-Aug	3-June/9-Aug	16-June/See Footnote	15-Jun/See Footnote
Yarmouth	29-Jun	28-Jun	27-Jun	26-June/11-Sep	24-June/9-Sep	30-June/8-Sep	29-Jun

Notes

Compiled by Cape Cod Commission from town data.

Harwich held collections at a facility at its landfill on May 22, June 19, July 17, August 21, September 18 and October 16, 1999.

Harwich held collections at a facility at its landfill on May 13, June 10, July 8, August 12, September 9 and October 14, 2000.

Harwich held collections at a facility at its landfill on May 12, June 9, July 14, August 11, September 8 and October 13, 2001.

Harwich held collections at a facility at its landfill for residents of Brewster, Chatham and Harwich on May 11, June 8, July 13, August 10, September 14, and October 12, 2002.

The towns of Bourne, Falmouth, Mashpee, and Sandwich held joint collections at a facility on the Massachusetts Military Reservation in Bourne on May 13, June 10, July 8, August 12, September 16, and October 14, 2000.

The towns of Bourne, Falmouth, Mashpee, and Sandwich held joint collections at a facility on the Massachusetts Military Reservation in Bourne on May 12, June 9, July 14, August 11, and September 8, and at the Bourne Middle School on October 13, 2001.

The towns of Provincetown, Truro, and Wellfleet held joint collections in 2001 and 2002 for residents from any of these towns on the dates shown above. Each town hosted one of the three events.

The towns of Bourne, Falmouth, Mashpee, and Sandwich held joint collections at various locations in these towns on May 11, June 8, July 13, August 10, September 14, and October 12, 2002.

TABLE 2 Waste Collected (in Gallons)

Household Hazardous Waste Collections, 1996 - 2002

Cape Cod, Massachusetts

	Waste Collected						
	1996	1997	1998	1999	2000	2001	2002
Barnstable	5,795	5,505	6,275	7,975	7,230	5,600	-
Bourne	4,850	2,928	3,305	3,285	See Footnote	13,105 / See Footnote	3,390 / 2,270 / See Footnote
Brewster	2,035	1,410	1,265	1,020	1,580	1,760	See Harwich
Chatham	2,480	1,564	1,680	925	1,030	1,350	See Harwich
Dennis	150 / 1,505	1,485 / 495	1,725 / 786	No data / 2,065	No data / 2,580	1,935 / 2,345	2,155 / 2,015
Eastham	2,575	1,724	1,330	1,525	1,235	800 / See Footnote	1,445
Falmouth	6,575	3,035 / 2,395	2,040 / 3,200	2,100 / 2,360	See Footnote	See Bourne	4,135
Harwich	1,965	1,280	880	770	715	770 / See Footnote	3,410 / See Footnote
Mashpee	See Falmouth	920	990	1,245	See Footnote	See Bourne	2,195 / 2,045
Orleans	1,680	1,534	1,550	970	1,105	935 / See Footnote	1,305 / See Footnote
Provincetown	1,155	860	-	876	-	3,755 / See Footnote	1,145 / See Footnote
Sandwich	6,710	1,870	3,275	No data	See Footnote	See Bourne	2,025
Truro	780	1,000	750	725	920	See Provincetown	825 / See Footnote
Wellfleet	1,415 / See Truro	615 / See Truro	590 / See Truro	815 / See Truro	695 / See Truro	See Provincetown	705 / See Footnote
Yarmouth	4,675	3,520	3,740	3,255 / 1,760	2,340 / 1,430	2,980	1,560
Total Waste	44,345	31,240	33,381	30,901	32,740	35,335	30,625

Notes

Compiled by Cape Cod Commission from town data.

Amount of waste collected includes packing materials.

Numbers in the same column separated by a slash (/) indicates information for more than one collection.

In 2000, the towns of Bourne, Falmouth, Mashpee, and Sandwich, with the Coast Guard Air Station, collected approximately 11,880 gallons of waste from multiple events.

In 2001, the towns of Bourne, Falmouth, Mashpee, and Sandwich, with the Coast Guard Air Station, collected approximately 13,105 gallons and 200 pounds of waste from multiple events.

Data for Coast Guard Air Station Cape Cod are not reflected in this table or in this report.

In 2001, the towns of Provincetown, Truro, and Wellfleet held reciprocal collections. Waste amount is combined.

In 2000, the towns of Barnstable, Eastham and Orleans collected other wastes not accounted for in the above figures, including a drum of household batteries, zinc phosphide and 425 pounds of coal tar with asbestos.

Additional detailed footnotes for Table 2 are included in this report.

TABLE 3 Households Served

**Household Hazardous Waste Collections, 1996 - 2002
Cape Cod, Massachusetts**

		Households Served						
		1996	1997	1998	1999	2000	2001	2002
Barnstable		786 (e)	701 (e)	586	854 (e)	716 (e)	991 (e)	-
Bourne		454	331	337	301	300	342	382
Brewster		347 (e)	217	183 (e)	147	250 (e)	318	137
Chatham		304 (e)	254	197	102	152	200	191
Dennis		183 (e) / 169	220 (e) / 135	280 (e) / 201	256 (e) / 240	262 / 233	375 (e) / 310	362 (e) / 316
Eastham		201 (e)	262 (e)	161	105	169	84	189
Falmouth		477	358 / 232	146 / 364	259 / 243	700	547	755
Harwich		181 (e)	103	66	593 (e)	234	366	341
Mashpee		86	108	94	132	164	201	350
Orleans		167	171	135	106	125	164	136
Provincetown		103	92 (e)	-	77 (e)	-	151	168
Sandwich		495 (e)	260	337	210 (e)	315	315	424
Truro		99	65	112 (e)	49 (e)	93	132	118
Wellfleet		133 / 37	66 (e) / 17	51 / 112 (e)	83 / 85 (e)	68/43	102	104
Yarmouth		567	453 (e)	434	486 / 287	290 / 292 (e)	387 / 148	270
Totals		4,789	4,045	3,788	4,275	4,406	5,133	4,243

Notes

Compiled by Cape Cod Commission from town data.

Except as noted below, numbers separated by a slash (/) indicate households served at more than one collection event.

From 1996 to 2000, Truro and Wellfleet held joint collection events.

Figure for Truro 1998 is combined Truro and Wellfleet participation. Second figure shown for Wellfleet in 1998 is combined Truro and Wellfleet participation.

Provincetown, Truro, and Wellfleet held three joint collections in 2001 and 2002, open to residents from any of the three towns. Each town hosted one event.

Figures for Harwich in 1999 - 2002 and Brewster and Chatham in 2002 show combined participation for multiple events.

Figures for Bourne, Falmouth, Mashpee, and Sandwich in 2000 - 2002 show participation of residents in each town at multiple events.

(e)=Estimated data

TABLE 4 Participation Rate

**Household Hazardous Waste Collections, 1996 - 2002
Cape Cod, Massachusetts**

	Households 1990	Households Estimated 2000	Households 2000 Census
Barnstable	16,601	19,195	19,626
Bourne	5,898	7,050	7,439
Brewster	3,383	4,082	4,124
Chatham	3,023	3,436	3,160
Dennis	6,194	6,695	7,504
Eastham	1,908	2,202	2,396
Falmouth	11,274	13,221	13,859
Harwich	4,505	5,314	5,471
Mashpee	3,158	3,993	5,256
Orleans	2,722	3,084	3,087
Provincetown	1,941	2,108	1,837
Sandwich	5,557	7,003	7,335
Truro	699	816	907
Wellfleet	1,129	1,274	1,301
Yarmouth	9,594	10,544	11,520
Totals	77,586	90,017	94,822

Participation Rate						
1996	1997	1998	1999	2000 (uses Est.)	2001	2002
5%	4%	4%	4%	4%	5%	-
8%	6%	6%	4%	4%	5%	5%
10%	6%	5%	4%	6%	8%	3%
10%	8%	7%	3%	4%	6%	6%
3% / 3%	4% / 2%	5% / 3%	4% / 4%	4% / 4%	5% / 4%	5% / 4%
11%	14%	8%	5%	8%	4%	8%
4%	3% / 2%	1% / 3%	2% / 2%	5%	4%	5%
4%	2%	1%	Footnote	4%	7%	6%
3%	3%	3%	3%	4%	4%	7%
6%	6%	5%	3%	4%	5%	4%
5%	5%	-	4%	-	8%	9%
9%	5%	6%	3%	4%	4%	6%
14%	9%	-	6%	11%	15%	13%
12% / 3%	6% / 2%	5% / -	7% / 8%	5% / 3%	8%	8%
6%	5%	5%	5% / 3%	3% / 3%	3% / 1%	2%

Average Participation Rate

6%	5%	5%	5%	5%	5%	4%
----	----	----	----	----	----	----

Notes

Population data source: US Census

Compiled by Cape Cod Commission from town data.

Data from events in 1996 to 1999 have been compared to households from 1990 Census, as shown.

Data from 2000 events have been compared to the estimated 2000 households, as shown. Estimate is based on 1999 population projections and population per household.

Data from 2001 and 2002 events have been compared to the actual 2000 Census data, as shown.

For Bourne, Falmouth, Mashpee, and Sandwich in 2000 - 2002, participation shown is for multiple events.

For Harwich in 1999, the range of participation at six events was 1 to 5%. Combined, overall participation for all six events was 13%.

For Harwich in 2000 - 2002, the participation rate shown is for multiple events.

For Brewster and Chatham in 2002, the participation rate shown is for multiple events.

For Provincetown, Truro, and Wellfleet in 2001 - 2002, rate shown is for multiple events.

TABLE 5 Total Cost

**Household Hazardous Waste Collections, 1996 - 2002
Cape Cod, Massachusetts**

	Total Cost						
	1996	1997	1998	1999	2000	2001	2002
Barnstable	\$20,148	\$14,327	\$18,810	\$25,645	\$26,750	\$20,900	-
Bourne	\$12,295	\$10,225	\$7,385	\$11,930	\$6,133	\$9,034	\$10,325
Brewster	\$6,230	\$6,077	\$3,195	\$3,450	\$4,957	\$6,590	\$2,700
Chatham	\$7,365	\$6,140	\$4,050	\$3,670	\$3,105	\$5,583	\$4,042
Dennis	\$7,293 / \$5,466	\$6,410 / \$4,310	\$6,270 / \$5,876	\$6,385 / \$6,635	\$7,446 / \$8,021	\$7,915 / \$7,239	\$8,175 / \$6,385
Eastham	\$6,000	\$11,000	\$3,220	\$5,245	\$5,931	\$2,623	\$5,620
Falmouth	\$14,480	\$9,435 / \$8,161	\$4,870 / \$7,960	\$6,500 / \$7,500	\$14,186	\$15,207	\$18,854
Harwich	\$5,750	\$4,873	\$2,235	\$6,255	\$5,775	\$6,140	\$5,261
Mashpee	\$2,695	\$3,873	\$2,700	\$4,895	\$3,331	\$5,600	\$8,925
Orleans	\$5,550	\$7,695	\$5,040	\$3,290	\$5,490	\$4,505	\$5,555
Provincetown	\$3,855	\$4,255	-	\$3,265	-	\$4,677	\$4,822
Sandwich	\$15,100	\$8,100	\$12,500	\$7,047	\$6,410	\$8,632	\$10,897
Truro	\$1,963	\$2,196	\$1,028	\$1,255	\$1,300	\$4,824	\$3,297
Wellfleet	\$4,243 / \$1,963	\$2,705 / \$2,196	\$1,720/\$1,028	\$2,845 / \$1,255	\$1,395 / \$1,300	\$4,229	\$3,301
Yarmouth	\$17,269	\$10,974	\$8,870	\$11,220 / \$6,675	\$9,854 / \$6,778	\$11,401 / \$6,808	\$9,720
Totals	\$137,665	\$122,952	\$96,757	\$124,962	\$118,162	\$131,907	\$107,879

Notes

Compiled by Cape Cod Commission from town data. Some figures have been rounded to the nearest whole dollar.

Figure shown for Harwich in 1999 - 2002 is the combined waste disposal cost for multiple events.

Figures shown for Brewster and Chatham in 2002 show the combined waste disposal cost for multiple events.

Figures for 2000 - 2002 may include additional costs incurred by towns for things such as advertising, police traffic details or provision of containers for general trash.

Additional data available, by request, from the Cape Cod Commission (but not shown): Total amount budgeted by each town for each collection.

TABLE 6 Cost per Household Served

**Household Hazardous Waste Collections, 1996 - 2002
Cape Cod, Massachusetts**

		Cost per Household Served						
		1996	1997	1998	1999	2000	2001	2002
Barnstable		\$26	\$20	\$32	\$30	\$37	\$21	-
Bourne		\$27	\$31	\$22	\$40	\$20	\$27	\$27
Brewster		\$18	\$28	\$17	\$23	\$20	\$21	\$21
Chatham		\$24	\$24	\$21	\$36	\$20	\$28	\$21
Dennis		\$40 / \$32	\$29 / \$32	\$22 / \$29	\$25 / \$28	\$28 / \$34	\$21 / \$23	\$23 / \$22
Eastham		\$30	\$42	\$20	\$50	\$35	\$31	\$30
Falmouth		\$30	\$26 / \$35	\$33 / \$22	\$25 / \$31	\$20	\$28	\$27
Harwich		\$32	\$47	\$34	\$25	\$25	\$17	\$21
Mashpee		\$31	\$36	\$29	\$37	\$20	\$28	\$27
Orleans		\$33	\$45	\$37	\$31	\$44	\$27	\$41
Provincetown		\$37	\$46	-	\$42	-	\$31	\$29
Sandwich		\$31	\$31	\$37	\$34	\$20	\$27	\$27
Truro		\$20	\$34	-	\$26	\$14	\$37	\$29
Wellfleet		\$32 / \$53	\$41 / \$129	\$34 / -	\$34 / \$15	\$21 / \$30	\$41	\$29
Yarmouth		\$30	\$24	\$20	\$23 / \$23	\$34 / \$23	\$29 / \$46	\$36

Average Cost per Household Served On Cape Cod

\$29	\$30	\$26	\$29	\$27	\$26	\$25
------	------	------	------	------	------	------

Notes

Compiled by Cape Cod Commission from town data.

Cost per household for Brewster and Chatham in 2002 are combined from multiple events.

Cost per household for Bourne, Falmouth, Mashpee, and Sandwich in 2000 - 2002 are combined from multiple collections.

Cost per household for Harwich in 1999 - 2002 are combined from multiple collections.

Cost per household for Provincetown, Truro and Wellfleet in 2001 - 2002 are combined from multiple events.

Cost per household in 2000 - 2002 may include expenses incurred by towns for things such as advertising, police traffic details, or provision of containers for general trash.

TABLE 7 Cars Served

**Household Hazardous Waste Collections, 1996 - 2002
Cape Cod, Massachusetts**

	Cars Served						
	1996	1997	1998	1999	2000	2001	2002
Barnstable	644	561	580	700 (e)	587 (e)	793	-
Bourne	391	291	289	269	243	277	254
Brewster	280	211	150	141	200 (e)	274	117
Chatham	249	247	191	80 (e)	148	194	136
Dennis	150(e) / 150	180 / 105	224 / 157(e)	210 / 187(e)	215 / 233	300 (e) / 310	309 / 306
Eastham	165	215	153	102	162	72	172
Falmouth	438	318 / 217	126 / 315	219 / 210	582	339	483
Harwich	148	98	66	208	227	349	292
Mashpee	81	102	88	120	136	164	208
Orleans	165	165	116	106	117	152	126
Provincetown	84	75	-	63	-	106	116
Sandwich	406	232	322	172	348	255	309
Truro	94	64	90 (e)	40	74	107	83
Wellfleet	130 / 37	54 / 16	45 / 90 (e)	75 / 70	62 / 35	84	89
Yarmouth	531	423	385	411 / 270	270 / 239	310 / 120	238
Totals	4,143	3,574	3,383	3,653	3,878	4,206	3,238

Notes

Compiled by Cape Cod Commission from town data.

No figures shown for Truro or Wellfleet in 1998 for cost per car because the number of cars for these events is combined.

Figures for Bourne, Falmouth, Mashpee, and Sandwich in 2000 - 2002 combine multiple collections.

Figures for Harwich in 1999 - 2002 and Brewster and Chatham in 2002 combine multiple collections.

Figures for Provincetown, Truro, and Wellfleet in 2001 - 2002 combine multiple events.

(e)=Estimated data

TABLE 8 Cost per Car Served

**Household Hazardous Waste Collections, 1996 - 2002
Cape Cod, Massachusetts**

	Cost per Car						
	1996	1997	1998	1999	2000	2001	2002
Barnstable	\$31	\$26	\$32	\$37	\$46	\$26	-
Bourne	\$31	\$35	\$26	\$44	\$25	\$32	\$42
Brewster	\$22	\$29	\$21	\$24	\$25	\$24	\$24
Chatham	\$30	\$25	\$21	\$46	\$21	\$29	\$29
Dennis	\$49 / \$36	\$36 / \$41	\$27 / \$37	\$30 / \$35	\$35 / \$34	\$26 / \$23	\$26 / \$25
Eastham	\$36	\$51	\$21	\$51	\$37	\$36	\$32
Falmouth	\$33	\$27 / \$38	\$39 / \$25	\$30 / \$36	\$24	\$45	\$43
Harwich	\$39	\$50	\$34	\$30	\$25	\$18	\$24
Mashpee	\$33	\$38	\$31	\$41	\$24	\$34	\$46
Orleans	\$34	\$47	\$43	\$31	\$47	\$30	\$44
Provincetown	\$46	\$57	-	\$52	-	\$44	\$42
Sandwich	\$37	\$35	\$39	\$41	\$18	\$34	\$38
Truro	\$21	\$34	-	\$31	\$18	\$45	\$29
Wellfleet	\$33 / \$53	\$50 / \$137	\$38 / -	\$38 / \$18	\$23 / \$37	\$50	\$29
Yarmouth	\$33	\$26	\$23	\$27 / \$25	\$36 / \$28	\$37 / \$57	\$41

Cost per Car Served

\$33	\$34	\$29	\$34	\$30	\$31	\$33
------	------	------	------	------	------	------

Notes

Compiled by Cape Cod Commission from town data.

No figures shown for Truro or Wellfleet in 1998 for cost per car because the number of cars for these events is combined.

Figures shown for Harwich in 1999 - 2002 and Brewster and Chatham in 2002 combine multiple collections.

Figures shown for Bourne, Falmouth, Mashpee, and Sandwich in 2000 - 2002 combine multiple collections.

Figures shown for Provincetown, Truro and Wellfleet in 2001 - 2002 combine multiple collections.

Cost per car in 2000 - 2002 may include expenses incurred by towns for things such as advertising, police traffic details, or provision of containers for general trash.