by Sara P. Boroshok

nvironmental excise taxes are imposed on petroleum and certain chemicals that threaten the environment (Chapter 38 of the Internal Revenue Code of 1986). Most of the revenues collected are dedicated to help fund efforts to prevent leakages and spills or to neutralize, through clean-up, the risks posed by hazardous waste sites. Businesses that are responsible for a contaminated site are held duly responsible for clean-up. However, in the event they are unable to cover the costs, funds are allocated from environmental excise tax revenues.

For Calendar Year 1993, about 2,500 businesses filed over 5,300 quarterly Forms 6627, *Environmental Taxes*, with the Internal Revenue Service, reporting a total tax liability of \$1.72 billion (after credits and refunds), including \$0.76 billion with respect to taxes on ozone-depleting chemicals (ODC's), reported here for the first time [1]. Environmental excise tax liability for 1992, exclusive of taxes on ODC's, was \$1.09 billion (after credits and refunds) [2,3]. Almost two-thirds of all environmental excise tax filers (over 1,600 businesses) reported tax on ozone-depleting chemicals (Figure A).

#### **Transfer of Funds**

Most environmental excise taxes, initially deposited into the U.S. Treasury General Fund, are subsequently transferred to one of two Federal trust funds (Figure B) [4]. Petroleum taxes are transferred to both the Hazardous Substance Superfund (Superfund) and to the Oil Spill Liability Trust Fund. Amounts collected from the manufacturers, producers or importers of 42 different chemicals and from importers of certain chemical substances are also transferred to the Superfund. In general, the trust funds provide direct financing for administrative and operational costs of specific Federal programs, e.g., for hazardous site clean-up, funded by the Superfund; or for oil spill cleanup, funded by the Oil Spill Liability Trust Fund. Unlike the aforementioned tax revenues, ODC tax receipts are not devoted to a specific Federal trust fund. Instead, they remain in the U.S. Treasury General Fund and are available, along with other sources of revenue, to support Federal spending.

#### **Environmental Excise Taxation**

For 1993, total environmental excise taxes, of \$1.7 billion (before credits and refunds), consisted mostly of ozone-depleting chemical taxes (43.8 percent) and petroleum

Sara P. Boroshok is an economist in the Special Studies and Publications Branch. This article was prepared under the direction of Michael Alexander, Chief, Special Projects Section. taxes (38.9 percent) (Figure C). About 56 percent were assigned to trust funds (48.4 percent to the Superfund and 7.7 percent to the Oil Spill Liability Trust Fund) and another 43.8 percent, associated with ozone-depleting chemicals, remained in the General Fund (Figure D).

Previous Statistics of Income Bulletin articles on environmental excise taxes focused only on Superfund and Oil Spill Liability Trust Fund taxes, which finance, in large part, the U.S. Environmental Protection Agency's (EPA) clean-up directives. They did not include the relatively new ozone-depleting chemical taxes, which are included here for the first time, for 1993 [5]. Consequently, this article only briefly covers Superfund and Oil Spill Liability Trust Fund taxes, and, instead, concentrates on reported ODC tax liabilities.

The Background section of this article presents legislative histories of categories of environmental excise taxes and trust funds (Superfund and the Oil Spill Liability Trust Fund), along with detailed explanations of all three types of ODC taxes. Empirical data follows in the Taxes Reported for 1993 section, with emphasis on ODC tax revenues.

#### **Background**

#### Superfund

In order to cleanup hazardous waste sites, the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) imposed an excise tax on current owners and operators of such sites, owners and operators at the time of a chemical or substance release, and generators and transporters of hazardous substances. CERCLA also established the aforementioned Hazardous Substance Superfund, administered by the EPA in cooperation with State Governments. The Superfund was to be used for locating, investigating, and cleaning-up hazardous waste sites throughout the United States in situations where either (1) no financially viable responsible party could be identified, or (2) it was necessary to expedite site clean-ups (where costs could ultimately be recovered from identifiable responsible parties).

The rates for chemicals taxed for the Superfund were based, proportionately, on the concentration of contaminating chemicals present at hazardous waste sites, with higher rates assigned to those chemicals with the highest concentration levels.

Almost from the beginning, Superfund's resources have proven insufficient to meet the growing needs of hazardous waste site clean-ups, prompting Congress to revise CERCLA's original provisions through a series of amendments and extensions. CERCLA was replaced by

Figure A

Environmental Excise Taxes, Before and After Credits and Refunds, 1992 and 1993

[Money amounts are in thousands of dollars]

	1993							
Type of substance	Number of filers <sup>1</sup>	Tax before credits and refunds	Number of returns claiming credits and refunds	Credits and refunds <sup>2</sup>	Tax after credits and refunds			
	(1)	(2)	(3)	(4)	(5)			
Total	2,539 N/A	1,730,336 971,686	77 N/A	8,833 7,297	1,721,503 964,389			
Petroleum	326	672,763	n.a.	67	672,696			
Chemical	452	285,524	33	2,734	282,790			
Petrochemicals	n.a.	n.a.	n.a.	n.a.	233,102			
Inorganic chemicals	n.a.	n.a.	n.a.	n.a.	49,688			
Imported chemical substances	107	13;399		4,496	8,903			
otal ozone-depleting chemicals	1,605	758,649	15	1,536	757,11			
Ozone-depleting chemicals (sold or used)lmported products containing or manufactured using ozone-	197	629,712	**	489	629,22			
depleting chemicals	533	81,159	10	1,040	80,11			
Floor stocks of ozone-depleting chemicals	1,032	47,778	**	7	47,77			
	1992							
			Number of					
Type of substance	Number	Tax before	returns	Credits	Tax after			
•	of	credits	claiming	and	credits an			
,	filers 1,3	and refunds	credits and refunds	refunds <sup>2</sup>	refunds			
	(1)	(2)	(3)	(4)	(5)			
Total	n.a.	n.a.	n.a.	n.a.	n.a			
Total other than ozone-depleting chemicals	764	1,122,550	n.a.	33,116	1,089,43			
Petroleum	517	832,311	n.a.	n.a.	n.a			
Chemical	449	278,233	n.a.	n.a.	n.a			
Petrochemicals	n.a.	225,861	n.a.	n.a.	n.a			
Inorganic chemicals	n.a.	52,373	n.a.	n.a.	n.a			
Imported chemical substances	102	12,019	n.a.	n.a.	n.a			
Total ozone-depleting chemicals	n.a.	n.a.	n.a.	n.a.	580,20			

<sup>\*\*</sup> Not shown to avoid disclosure of information about specific businesses. However, the data are included in the appropriate totals.

N/A - Not applicable.

n.a. Not available.

<sup>2</sup> Credits and refunds may be understated because of different taxpayer reporting methods (see text).

Internal Revenue Report of Excise Taxes, Summary of Quarters ended March 1992 through December 1992.

NOTE: Detail may not add to totals because of rounding.

the Superfund Amendments and Reauthorization Act of 1986 (SARA), which re-established the Superfund, effective January 1, 1987, through December 31, 1991. In addition, SARA imposed new taxes on certain imported chemical substances and an environmental income tax of 0.12 percent on corporations whose "modified alternative minimum taxable income" exceeded \$2 million [6]. Concomitant with these changes, a new ceiling on Superfund revenue was set at \$6.7 billion, an increase of \$5.3 billion over CERCLA's original Superfund cap of \$1.4 billion.

Then, in order to meet actual and projected obligations, the Superfund and its supporting taxes were again extended, by another 4 years, through December 31, 1995, by the Revenue Reconciliation Act of 1990. This Act again raised the ceiling on Superfund tax collections, from \$6.7 billion to \$12.0 billion.

#### **Oil Spill Liability Trust Fund**

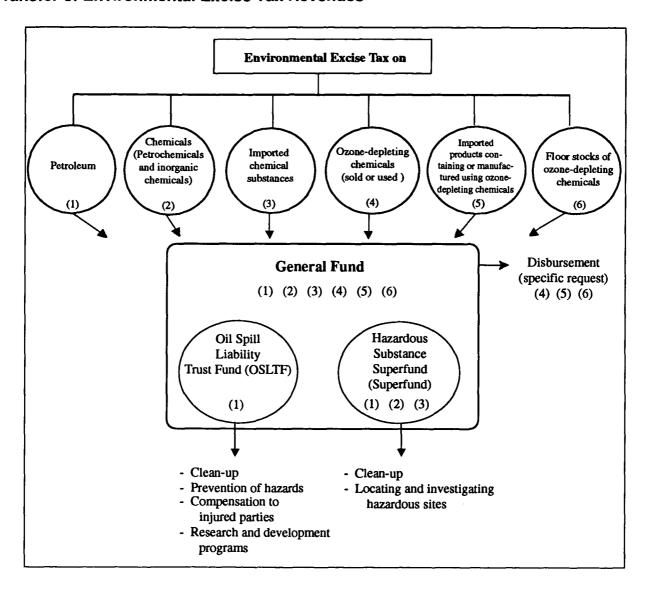
A \$.05 per barrel tax is imposed on both domestically produced and imported crude oil and on imported petroleum products. The Oil Spill Liability Trust Fund, into

Number of filers does not add to totals because some businesses report tax on more than one substance.

<sup>3</sup> Number of filers is understated for 1992, because it does not account for those taxpayers who reported ozone-depleting chemical taxes.

Figure B

#### Transfer of Environmental Excise Tax Revenues



which these taxes are transferred, allocates money for the prevention and clean-up of oil spills (whenever a responsible party is unable to pay for the cost of containment and clean-up), as well as to compensate injured parties for damages caused by these spills. The Trust Fund, administered by the U.S. Coast Guard, was originally established by the Omnibus Budget Reconciliation Act of 1989, and later amended by the Oil Pollution Act of 1990.

This Fund also provides money for research into, and development of, oil spill clean-up technologies. Starting with 1990, annual appropriations from the Fund, ranging from \$25 million to \$30 million, have been distributed to:

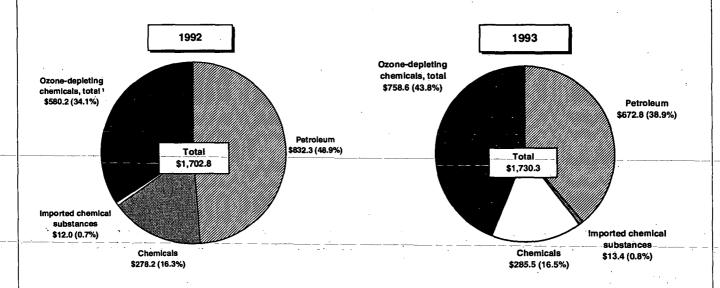
(1) the U.S. Coast Guard, for its operating expenses in connection with oil spill clean-up efforts; (2) the National Response System, a network of individuals and teams from local, State, and Federal agencies, which (until 1993) shared the expertise and resources to assure that oil spill control and clean-up activities were timely an efficient, and that threats to human health and the environment were minimized; and (3) research and development programs.

There was a one-year suspension of this tax from July 1, 1993, to June 30, 1994, because the unobligated balance in the Fund exceeded the statutory limit of \$1 billion. The tax expired effective January 1, 1995.

### Figure C

## Sources of Environmental Excise Taxes (Before Credits and Refunds), 1992 and 1993

(Money amounts are in millions of dollars)



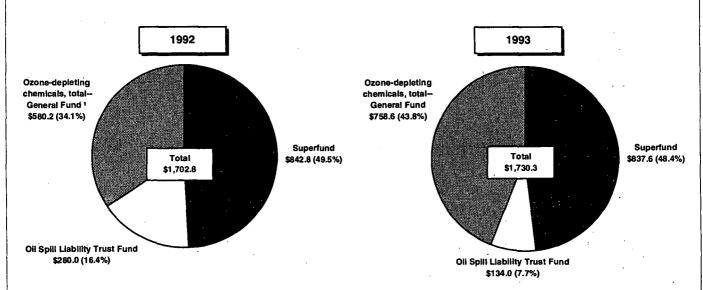
Internal Revenue Report of Excise Taxes, Summary for Quarters ended March 1992 through December 1992.

NOTES: In general, Figure C presents tax amounts before credits and refunds for comparability of data for 1992 and 1993. However, Ozone-depleting chemicals, total (1992) represents tax after credits and refunds. (See Date Sources and Limitations section of this article.) All other figures (except Figure D) present tax amounts after credits and refunds. Detail may not add to totals because of rounding.

#### Figure D

# Environmental Excise Taxes (Before Credits and Refunds), by Federal Fund, 1992 and 1993

(Money amounts are in millions of dollars)



¹ Internal Revenue Report of Excise Taxes, Summary for Quarters ended March 1992 through December 1992.

NOTES: In general, Figure D presents tax amounts before credits and refunds for comparability of data for 1992 and 1993. However, Ozone-depleting chemicals, total General Fund¹ (1992) represents tax after credits and refunds. (See Data Sources and Limitations section of this article.) All other figures (except Figure C) present tax amounts after credits and refunds. Detail may not add to totals because of rounding.

## **Protecting the Ozone Layer**

Because there was, and continues to be, strong evidence indicating that certain emissions of chlorofluorocarbons (CFC's), halons, and certain other chemicals deplete the ozone layer, international treaties were entered into by the United States in order to phase-out these harmful substances. The Montreal Protocol on Substances that Deplete the Ozone Layer, signed on September 16, 1987, established a timetable for reducing production of specific ODC's, worldwide. As a signatory to the agreement, the United States adheres to the Protocol through Title VI of the Clean Air Act of 1990, which authorizes EPA to monitor levels of ODC's produced, imported, or exported through quarterly reporting requirements.

The Montreal Protocol, renegotiated on June 29, 1990,

in London, England, and on November 25, 1992, in Copenhagen, Denmark, specified separate classes of "controlled substances" which deplete the ozone layer and which are subject to the agreements. Figure E shows the most common "Class I" substances, as initially covered by the Protocol, with their primary uses, while Figure F presents a complete list of ODC's specified under the Protocol and its Amendments and summarizes their tax treatment as incorporated into U.S. law, initially through the Revenue Reconciliation Act of 1990 [7]. "Class I" substances, regulated under both the Montreal Protocol and the Clean Air Act of 1990, have phase-out schedules before the year 2000, while "Class II" substances, regulated under both the 1992 Copenhagen Amendment to the Protocol and the Clean Air Act of 1990, are to be phased-out after 2000.

## Figure E

Ozone-depleting chemical	Primary uses
Class I, Groups I & II substances <sup>2</sup> :	
CFC-11	Blowing agent for closed-cell plastic insulating foams; refrigerant for low-pressure industrial air conditioners or chillers.
CFC-12	Auto air conditioning; industrial chiller, packaging or cushioning foam blowing agent; refrigerant in home appliances (refrigerators and freezers); medical aerosol for asthma patients; medical sterilant.
CFC-113	Cleaning solvent, usually electronic circuit boards; medical applications, include cleaning pacemakers and other implants to reduce body tissue rejection.
CFC-114	Refrigerant for industry (large chillers and air conditioners) or military (submarines and surface ships).
CFC-115	Seldom used alone; when combined with HCFC-22, becomes a refrigerant blend for low-temperature refrigeration typically found in supermarket frozen food cases.
Halon-1211	Streaming agent used mostly in hand-held or portable fire extinguishers.
Halon-1301	Highly reliable flooding agent, used primarily to extinguish fire in military vehicles, aircraft, and offshore drilling platforms.
Halon-2402	Streaming agent with no significant commercial use in the United States because of unfavorable toxicology properties. However, it is used in military installations in the former Soviet Union.
Carbon tetrachloride	Feedstock for making CFC-11 and CFC-12 (known as a human carcinogen); applications in the United States are minimal; used significantly in former Eastern Bloc countries as a grain fumigant and fire-fighting agent; limited solvent applications.
Methyl chloroform	Vapor degreasing and cold cleaning of fabricated metal parts; solvent in adhesive and aerosols, (coatings and inks); dry cleaning leather and suede garments; all-purpose solvent; powerful cleansing properties, low flammability, and low relative toxicity.

<sup>&</sup>lt;sup>1</sup> Reprinted with permission from Air Pollution Control, pp. 100:608. Copyright 1993 by The Bureau of National Affairs, Inc. (800-372-1033).

<sup>&</sup>lt;sup>2</sup> Class I, Groups I and II substances are to be phased-out by the year 2000.

NOTE: Abbreviations are as follows: CFC - Chlorofluorocarbon, HFC - Hydrofluorocarbon and HCFC - Hydrochlorofluorocarbon.

Figure F		

<del></del>					1993 Tax rate	
		Base tax rate (dollars per pound)		Ozone-	(dollars per pound) 1	
Ozone-depleting chemical	Chemical nomenclature			depletion factor	ODC's, other than floor	Floor
		1992	1993	40	stocks	stocks
	(1)	(2)	(3)	(4)	(5)	(6)
CLASS I	}			]		
Group I						
CFC-11	trichlorofluoromethane; freon 11, R-11	1.67	3.35	1.00	3.35	1.68
CFC-12	dichlorodifluoromethane; freon 12, R-12 (CFC-12 is also a component of R-500)	1.67	3.35	1.00	3.35	1.68
CFC-113	trichlorotrifluoroethane; 1,1,2 trichloro-1,2,2 trifluoroethane, freon 113, freon TF, freon PCA, genetron 113	1.336	3.35	0.80	2.68	1.344
CFC-114	1,2-dichloro-1,1,2,2-tetrafluorothane, R-114, freon 114	1.67	3.35	1.00	3.35	1.68
CFC-115	chloropentafluoroethane, R-115 (CFC-115 is also a component of R-502)	1.002	3.35	0.60	2.01	1.008
ODC used in rigid foam insulation	N/A	N/A	N/A	N/A	N/A	0.2499
ODC used to sterilize medical instruments	N/A	N/A	N/A	N/A	N/A	1.6700
ODC used as propellant in metered-dose inhaler	N/A	·N/A- —	N/A	N/A	N/A	1:6700
Group II					1	
Halon-1211	bromochlorodifluoromethane	0.2505	3.35	3.00	0.2502	
Halon-1301	bromotrifluoromethane	0.2505	3.35	10.00	0.2512	ļ. <b></b>
Halon-2402	dibromotetrafluoroethane	0.2505	3.35	6.00	0.2492	<u></u>
Group III						
050.40	chlorotrifluoroethane, R-13 (CFC-13 is also a component	1.37	3.35	1.00	3.35	1.98
CFC-13 CFC-111	of R-503); CF3C1 pentachlorofluoroethane; C2FC15	1.37	3.35	1.00	3.35	1.98
CFC-111	tetrachlorodifluoroethane; C2F2C14	1.37	3.35	1.00	3.35	1.98
CFC-211	heptachlorofluoropropane; C3FC17	1.37	3.35	1.00	3.35	1.98
CFC-212	hexachlorodifluoropropane; C3F2C16	1.37	3.35	1.00	3.35	1.98
CFC-213	pentachlorotrifluoropropane; C3F3C15	1.37	3.35	1.00	3.35	1.98
CFC-214	tetrachlorotetrafluoropropane; C3F4C14	1.37	3.35	1.00	3.35	1.98
CFC-215	trichloropentafluoropropane; C3F5C13	1.37	3.35	1.00	3.35	1.98
CFC-216	dichlorohexafluoropropane; C3F6C12	1.37	3.35	1.00	3.35	1.98
CFC-217	chloroheptafluoropropane; C3F7C1	1.37	3.35	1.00	3.35	1.98
Group IV						
Carbon tetrachloride	tetrachloromethane	1.37	3.35	1.10	3.6850	2.178
Group V		}	}			
Methyl chloroform	1,1,1-trichloroethane, TCA	1.37	3.35	0.10	0.2111	0.0741

Figure F

Ozone-Depleting Chemicals, Chemical Nomenclature, Ozone-Depletion Factor, and Tax Rates-Continued Base tax rate Ozone-(dollars per pound) 1 ODC's, other depletion Ozone-depleting chemical Chemical nomenclature (dollars per pound) factor than floor Floor 1992 1993 stocks stocks (1) (2) (3) (4) (5) (6) **CLASS II** HCFC-21 N/A N/A N/A N/A N/A dichlorofluoromethane HCFC-22 chlorodifluoromethane N/A N/A 0.05 N/A N/A HCFC-31 N/A N/A chlorofluoromethane N/A N/A N/A C2HFCI4 **HCFC-121** N/A N/A N/A N/A N/A C2HF2CI3 HCFC-122 N/A N/A N/A N/A N/A C2HF3CI2 HCFC-123 N/A N/A 0.02 N/A N/A HCFC-124 C2HF4CI N/A 0.02 N/A N/A N/A C2H2FCI3 HCFC-131 N/A N/A N/A N/A N/A HCFC-132b C2H2F2CI2 N/A N/A N/A N/A N/A HCFC-133a C2H2F2CI N/A N/A N/A N/A N/A HCFC-141b C2H3FCI2 N/A N/A 0.12 N/A N/A HCFC-142b C2H3F2CI N/A N/A 0.06 N/A N/A **HCFC-221** C3HFCI6 N/A N/A N/A N/A N/A C3HF2CI5 HCFC-222 N/A N/A N/A N/A N/A HCFC-223 C3HF3CI4 N/A N/A N/A N/A N/A HCFC-224 C3HF4CI3 N/A N/A N/A N/A N/A C2HF5CI2 N/A HCFC-225ca N/A N/A N/A N/A HCFC-225cb C3HF6CI N/A N/A N/A N/A N/A C3H2FCI5 N/A HCFC-226 N/A N/A N/A N/A C3H2F2CI5 N/A N/A N/A HCFC-231 N/A N/A HCFC-232 C3H2F2CI4 N/A N/A N/A N/A N/A HCFC-233 C3H2F2CI3 N/A N/A N/A N/A N/A C3H2F4CI2 N/A N/A N/A N/A N/A HCFC-234 C3H2F5CI N/A N/A N/A HCFC-235 N/A N/A C3H3FCI4 N/A N/A N/A N/A N/A HCFC-241 HCFC-242 C3H3F2CI3 N/A N/A N/A N/A N/A

HCFC-243

HCFC-251

HCFC-252

HCFC-253

HCFC-261

HCFC-262

HCFC-271

C3H3F3Cl2

C3H4FCI3

C3H4F2CI2

C3H4F3CI

C3H5FCI2

C3H5F2CI

C3H6FCI

N/A

NOTE: CFC represents chlorofluorocarbon(s) while HCFC represents hydrochlorofluorocarbon(s). Only Class I substances are taxable.

N/A

N/A - Not applicable

<sup>&</sup>lt;sup>1</sup> In general, the ozone-depleting chemical tax rate is figured by multiplying the (annual) base-tax amount by the ozone-depletion factor, except as explained in footnote [9] at the end of the article.

In February 1992, President George Bush announced that the United States would unilaterally accelerate the phase-outs set forth in the Montreal Protocol and its Amendments to further encourage the development of substitutes for ODC's, as well as to reduce their production and importation.

In addition to establishing a list of ODC's to be "controlled", these treaties identified an "ozone-depleting potential" (ODP), which is the relative rate at which each chemical depletes the ozone layer. The ODP is equivalent to the "ozone-depletion factor" used in calculating applicable tax rates. A "base tax rate" is multiplied by the "ozone-depletion factor" in specifying tax rates. Liabilities are determined by multiplying these rates by the weight (expressed in pounds) of the ODC (used, sold, or contained in imported products) for most "Class I" substances (Figure F) [8,9]. The determination of tax rates for floor stocks of ODC's is explained in The Floor Stocks Tax section of this article.

## **Ozone-Depleting Chemical Taxation**

There are three separate types of taxes relating to ODC's: (1) taxes on the sale or use of ODC's manufactured in, produced in, or imported into the United States; (2) taxes on any-imported product if any ODC was used in its manufacture or production; and (3) taxes on floor stocks (inventories held on January 1 of each year) of taxable ODC's held for sale or use in further manufacturing. These three taxes were initially enacted as part of the Budget Reconciliation Act of 1989 and applied to the CFC's and halons categorized in groups I and II of the Class I chemicals listed in the Protocol, effective January 1, 1990. See Figure F and Appendix. As part of the Budget Reconciliation Act of 1990, these taxes were extended to the ODC's added to the coverage of the Protocol by the London Amendments: the 10 forms of CFC's categorized in Group III of Class I as well as carbon tetrachloride and methyl chloroform that make up groups IV and V, respectively. The 33 forms of hydrochlorofluorocarbons (Class II ODC's) to be phased out after 2000 are not subject to tax.

These ODC-related taxes were designed to complement the regulatory regime used to implement the Protocol. One view of the taxes is that they effectively reduced ODC use beyond the reductions called for by the Protocol by significantly increasing their prices [10]. Another view is that they are in the nature of windfall profit taxes that capture, as public revenues, amounts which would otherwise inure to producers. Since quantities produced were to be drastically reduced by regulation, prices would be expected to rise to clear the markets for ODC's, thus

creating windfall profits for producers in the absence of the tax [11].

The Tax on ODC's Sold or Used. The tax rates on ODC's sold or used by their manufacturer, producer, or importer are generally determined each year by a statutory formula that multiplies base tax rates by the ozone-depletion factors identified in the Protocol (Figure F). The initial base tax rate was set at \$1.37 per pound for 1990 (or for 1991 with respect to those chemicals added to the list of taxable ODC's by the Omnibus Budget Reconciliation Act of 1990) with increases in the base tax rate scheduled for subsequent years. The base tax rate was increased to \$3.35 per pound for 1993, as part of the Comprehensive National Energy Policy Act of 1992, with increases of \$1.00 per pound-scheduled-for the next-twoyears, and of \$.45 per pound for each year after 1995 [12]. These increased rates complemented the speed-up in the regulatory phase-out of ODC's announced by President Bush in 1992 [13]. In general, this tax is imposed upon initial use or sale of the ODC. However, an ODC contained in a mixture can be taxed either upon creation of the mixture (its first "use"), or at the seller's option, upon the sale of the mixture.

Some exceptions to this general rule for setting the tax rates were legislated. No tax is imposed on ODC's diverted or recovered in the United States as a part of a recycling process, to avoid taxing the same ODC's over and over again. Use in further manufacturing is not taxed if the ODC is completely consumed in the process, and thus cannot damage the ozone layer. Limited amounts of exports are not subject to tax, in part, to induce nonsignatories to the Protocol to join the agreement, by continuing to supply those countries with relatively lowcost ODC's. Otherwise it was thought that such countries might be induced to establish their own ODC-producing capacity [14]. In addition, ODC's sold or used as feedstock were exempt from the ODC tax. Tax rates were phased in for halons, methyl chloroform, and for ODC's used: (1) in the manufacture of rigid foam insulation; and (2) to sterilize medical instruments. ODC's used as propellants in metered-dose inhalers are permanently taxed at a rate of \$1.67 per pound [15].

The Tax on Imported Products. The tax on imported products containing or manufactured using ODC's is the most complicated of the ODC-related taxes. It is based on the per unit weight of ODC's contained in the imported product (such as freon in the air conditioning unit of an imported automobile) or used in its production. The "Imported Products Reference Table" indicates weight and type of ODC, based on the "predominant method of production in the United States," for each taxable im-

ported product (Appendix) [16]. Imported taxable products not specifically listed in the IRS table are subject to a 1 percent of value tax, unless the importer can establish a lower rate based on actual ODC use by the foreign supplier.

The taxable event is the use or sale of the imported product by the importer; however, the importer can elect to treat importation as the taxable event [17]. The regulations also permit the importer to elect to have the sale of a finished product treated as the taxable event with respect to imported, taxable component parts [18]. The regulations permit an importer to assert (so long as the importer can "support this determination") that the foreign supplier does not use ODC's, or uses lesser amounts than reflected in the IRS table and, thus, avoid or minimize the tax. Under the regulations, "use" excludes the loss or destruction of imported products containing or manufactured using ODC's, as well as packaging, warehousing, and repair [19].

In addition, a de minimis rule permits a product to be imported tax-free so long as the otherwise applicable tax on the ODC's contained in the product or used in manufacturing the product does not account for more than 0.1 percent of the cost of the product to the importer [20]. By statute, this de minimis rules does not apply, however, to any product with respect to which any ODC (other than the less damaging methyl chloroform) is used for purposes of refrigeration or air conditioning, creating an aerosol or foam, or manufacturing electronic components.

The Floor Stocks Tax. The tax on floor stocks of ozone-depleting chemicals is imposed on those (other than the manufacturer, producer, or importer), who, as of January 1 of a given year, hold inventories of ODC's for either: (1) future sale or (2) use in further manufacture. Floor stocks taxes are typically used when excise taxes are first imposed or when rates are increased. This tax policy prevents tax avoidance through the artificial accumulation of inventories just before the new tax goes into effect.

Inventories held on January 1 are taxed at a rate equal to the difference between the current and previous year rates. For 1993, the base tax rate for floor stocks of most ODC's was \$1.68 per pound -- the difference between the 1993 (\$3.35) and 1992 (\$1.67) base tax rates. (Refer back to Figure F for rates applicable to all ozone-depleting chemicals.)

Each year's floor stocks tax is due on June 30th. In 1993, inventories of less than 400 pounds were exempt from the tax. The floor stocks tax did not apply in 1993 to inventories held for use in the manufacture of rigid foam insulation, medical sterilants or metered-dose inhalers, or to halons, because there was little or no increase in these tax rates between 1992 and 1993 [21].

#### **Taxes Reported for 1993**

While there are several different types of environmental excise taxes, all are reported on Form 6627; in practice, many of the taxes are often referred to by their association with either the Superfund or the Oil Spill Liability Trust Fund. Therefore, discussions of environmental excise taxes presented here include references to both the tax and the associated fund. Figure G categorizes aggregate environmental excise taxes by fund. The taxes on ozone-depleting chemicals sold or used, on imported products containing or manufactured using ODC's, and on floor stocks of ODC's are grouped under the U.S. Treasury General Fund. Table 1 presents detailed information on taxes and number of filers by type of tax with respect to each substance.

#### **Superfund Taxes**

A petroleum excise tax at \$.097 cents per barrel, and the taxes on chemicals (petrochemicals and inorganic chemicals), and imported chemical substances comprise the excise taxes "transferred" to the Superfund [22]. The Superfund petroleum tax is incurred by operators of U.S. refineries which receive crude oil; businesses importing petroleum products for consumption, use, or warehousing; and businesses using or exporting crude oil on which tax has not already been paid. For 1993, petroleum taxes of \$538.7 million represented the majority of the total Superfund excise taxes (64 percent).

Inorganic chemical, petrochemical, and imported chemical substance taxes are paid by those manufacturers or importers that sell or use the specified chemicals or substances. Petrochemical taxes, alone, comprised 28 percent (\$233.1 million) of the total excise Superfund taxes; inorganic chemical taxes totaled 6 percent (\$49.7 million), while imported chemical substances accounted for less than 1 percent (\$8.9 million).

#### **Oil Spill Liability Trust Fund Taxes**

The oil spill tax on petroleum is imposed on the same businesses liable for the Superfund petroleum tax. The oil spill tax rate is \$.05 per barrel. For 1993, Oil Spill Liability Trust Fund taxes totaled \$134.0 million, 53 percent less than 1992, reflecting the suspension of this tax from July 1, 1993, to June 30, 1994. Tax revenues were almost equally divided between imports and domestic production.

## **Ozone-Depleting Chemical Taxes**

Total tax reported for all ODC's was \$757.1 million for 1993. Figure H presents the total amount of tax for each category of ozone-depleting chemical, highlighting the fact that the highest concentration of tax was associated

Figure G

# Environmental Excise Taxes After Credits and Refunds, by Federal (Trust) Fund and Substance, 1993

[Money amounts are in thousands of dollars]

	Total tax after	Percentage of		
Fund and substance	credits and refunds	Fund	Total environmental excise tax	
	(1)	(2)	(3)	
Total	1,721,503	N/A	100	
Superfund				
Total	830,375	100	48	
Petroleum, total	538,682	64	31	
Domestic	264,560	32	15	
Imported	274,122	33	16	
Chemicals, total	282,790	34	16	
Petrochemicals	233,102	28	14	
Inorganic	49,688	6	3	
Imported chemical substances	8,903	1	1	
Oil Spiil Liability Trust Fund			1	
Petroleum, total	134,014	100	8	
Domestic	66,249	49	4	
Imported		<b>51</b>	4	
General Fund	.	•	1	
Ozone-Depleting Chemicals (ODC's), total	757,113	. 100	44	
Ozone-depleting chemicals (sold or used)	629,223	83	37	
Imported products containing or manufactured using ozone-depleting chemicals	80,119	11	5	
Floor stocks of ozone-depleting chemicals.	47,771	6	3	

N/A - Not applicable.

NOTE: Detail may not add to totals because of rounding

with a single chemical, CFC-12 (dichlorodifluoromethane), which accounted for almost two thirds (\$493.4 million) of the total tax reported for all ODC's exchanged or held in inventories. Ozone-depleting chemical taxes apply to 20 different substances.

Tax on Ozone-Depleting Chemicals Sold or Used in Production

Of the total tax on ODC's (\$757.1 million), the majority (83 percent) of the revenues were generated by the sale or use of ODC's, almost 75 percent of which was associated with the production or use of CFC-12.

CFC-12 is used primarily for auto air conditioners, although it has other applications (e.g., as an industrial chiller; as a packaging or cushioning foam-blowing agent; and as a refrigerant in home appliances, such as refrigerators and freezers). This chemical also has a limited use as a medical aerosol for asthma patients and as a carrier of ethylene oxide, used to sterilize medical equipment [23].

Tax on Imported Products Containing or Manufactured Using Ozone-Depleting Chemicals
Of the total tax on ODC's (\$757.1 million), only 11

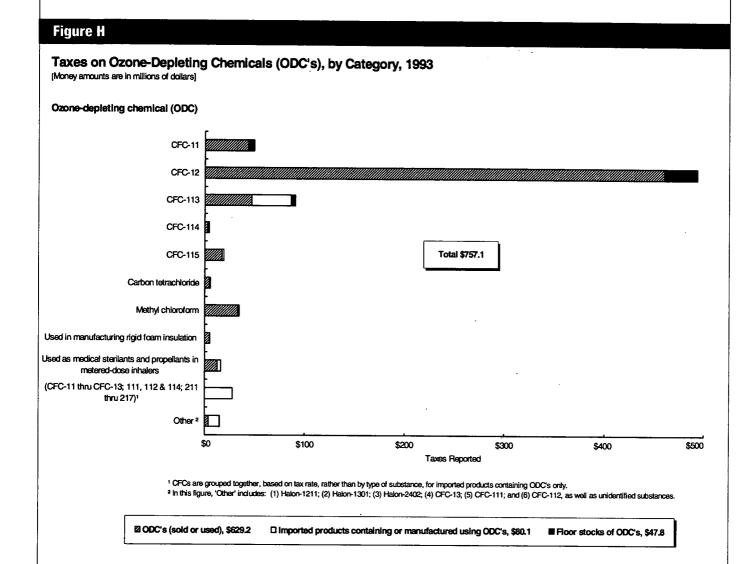
percent of the revenues (\$80.1 million) were generated

through taxes on the importation of products. Almost 50 percent (\$39.5 million) of the tax on imported products containing or manufactured using ozone-depleting chemicals was attributed to electronic goods manufactured using CFC-113 (trichlorotrifluoromethane).

CFC-113 is a solvent used primarily to clean electronic equipment. Products which use CFC-113 in their manufacturing process include: typewriters, calculators, microwave ovens, and computers (along with all associated components, i.e., keyboards, displays, printers, and storage units, as well as disk drives). Virtually all electronic goods appear on the "Imported Products Reference Table" because ODC's have commonly been used as cleaning agents in their manufacture.

Tax on Floor Stocks of Ozone-Depleting Chemicals

Total tax on floor stocks of ODC's for 1993 was \$47.8 million. Nearly three-fourths (\$33.7 million) of this tax was associated with CFC-12, a refrigerant (discussed above), with another \$5.7 million (12 percent) of the total tax attributed to CFC-11 (trichlorofluoromethane). CFC-11 is used as a blowing agent for closed-cell plastic insulating foams. Its secondary use is as a refrigerant for low-pressure industrial air conditioners or chillers.



Refrigerants CFC-11 and CFC-12 represented 82 percent of the reported floor stocks tax, while ODC's that are related to electrical products (non-refrigerants) represented only 9 percent of the total tax on floor stocks of ODC's for 1993.

## **Top Filers**

For 1993, the 20 companies reporting the largest amounts of environmental excise tax were responsible for \$1.0 billion in tax (after credits and refunds), or 61 percent of the total. These companies reported 81 percent of total ozone-depleting chemical taxes (\$514.1 million) and 46 percent of total (Superfund and Oil Spill Liability Trust Fund, combined) petroleum taxes (\$311.9 million), the two largest categories of environmental excise taxes. The top five companies, alone, reported \$593.0 million, over one-third of the total environmental excise tax.

#### **Credits and Refunds**

Under a variety of circumstances, taxpayers may be eligible for credits or refunds with respect to environmental excise taxes previously paid, or against current liability. A business could claim a credit on either its quarterly Form 720, Federal Excise Taxes (Schedule C), or on its attached Form 6627, Environmental Taxes. Refunds could be claimed on Form 843, Claim for Refund [24]. In general, taxpayers usually claim credits to offset their current tax liability [25].

For all chemicals (inorganic, petrochemical, imported, and ODC's), when one (taxable) chemical is used to produce another (taxable) chemical, credits or refunds are allowed to prevent double taxation, but are limited to the tax that the newly-produced chemical would have generated (if the source and "new" chemical are taxed at different rates). Furthermore, if environmental excise taxes

were paid in a previous quarter on a qualifying substance, and the terms of any of the following exceptions are met, then a credit or refund is allowed (without interest) [16].

#### **Petroleum**

Credits are allowed against (1) petroleum taxes for taxes previously paid on crude oil removed from a pipeline and subsequently returned to the same pipeline; (2) Oil Spill Liability Trust Fund taxes for amounts previously paid to the Deepwater Port Liability Trust Fund and to the Offshore Oil Pollution Compensation Fund prior to 1987; and (3) Oil Spill Liability Trust Fund taxes for amounts previously paid into the Trans-Alaska Pipeline Fund when balances from that fund were "transferred" to the Oil Spill Liability Trust Fund.

#### **Chemicals**

There is no environmental excise tax liability imposed on chemicals used in the following capacity: (1) nitric acid, sulfuric acid, ammonia, or methane used to produce ammonia sold or-used as a fertilizer; (2) sulfuric acidproduced solely as a by-product of, and on the same site as, air pollution control equipment; (3) any otherwise taxable chemical derived from coal; (4) acetylene, benzene, butylene, butadiene, ethylene, naphthalene, propylene, toluene, and xylene used, sold for use, or for resale for ultimate use, as any motor fuel, diesel fuel, aviation fuel or jet fuel, or in the manufacture or production of such a fuel; (5) barium sulfide, cupric sulfate, cupric oxide, cuprous oxide, lead oxide, zinc chloride, zinc sulfate, and any mixture or solution containing these chemicals because of their transitory presence during any process of smelting, refining, or other-wise extracting any substance not subject to the tax; (6) chromium, cobalt, or nickel diverted or recovered in the United States from any solid waste as part of a recycling process; (7) taxable chemicals sold for export or sold for resale to a second purchaser for export; (8) inventory exchanges of taxable chemicals, provided that certain registration requirements are met; and (9) any organic taxable chemical while the chemical is part of an intermediate hydrocarbon stream containing one or more organic taxable chemical(s), provided certain registration requirements are met.

For Imported Chemicals, credits are allowed for cases (1) and (4) above. In addition, any taxable chemical (substance) that was exported qualifies for an environmental excise tax credit.

#### ODC's

If a previously taxed ODC is consumed entirely when used to manufacture or produce another chemical, a credit or refund may be claimed by the producer of the new

chemical. Also, if an ODC is produced domestically, and subsequently exported, a credit may be allowed.

Total credits for 1993 were \$8.8 million, over half of which (52 percent) was claimed primarily with respect to exports of substances on the list of imported chemical substances. Another 31 percent was attributed to chemical (non-ODC) taxes. Realizing credits, total environmental excise tax liability for 1993 was reduced by less than 1 percent, from \$1.73 billion to \$1.72 billion.

## **Summary**

Environmental excise tax liabilities of \$1.7 billion (after credits and refunds) were reported by 2,539 businesses for the Calendar Year 1993. Forty-eight percent of the tax—was reported as Superfund tax (\$830.4 million), made up of petroleum taxes (\$538.7 million), chemical taxes (\$282.8 million), and imported chemical substances taxes (\$8.9 million). Ozone-depleting chemical (ODC) taxes generated another 44 percent (\$757.1 million), while the remaining 8 percent (\$134.0 million) was associated with the Oil Spill Liability Trust Fund. For 1993, twenty companies accounted for nearly two-thirds of the total environmental excise tax, including ODC taxes.

#### **Data Sources and Limitations**

The Quarterly Federal Excise Tax Return, Form 720, is the form on which environmental excise taxes are reported. Form 6627, Environmental Taxes, is the supporting schedule to Form 720 on which taxes on petroleum and chemicals are computed. The entire population of unaudited Form 6627 returns are the source of data used for these statistics. When pertinent data were available during statistical processing, on either Form 720 or Form 843, Claim for Refund, these data were also included in the statistics. However, not all Forms 720 and Forms 843 are represented in these statistics. As a result, credits amd refunds presented in this article may be understated.

Excise tax returns are generally due to be filed with the Internal Revenue Service within one month after the end of the quarter for which the business is liable for the tax. Data in this article reflect information reported on returns filed for the four quarters ending March 31, 1993, through December 31, 1993.

Since the data were compiled from the entire population of Forms 6627, the statistics presented are not subject to sampling error, but they may be subject to nonsampling error. For example, even though efforts were made to secure all returns, because of time and resource constraints, if the actual quarterly return for a business was unavailable for statistical processing, then information

from prior quarterly returns for that same business was used as the basis for estimating 1993 quarterly data. Data for quarterly returns of five companies were estimated for 1993 using this method.

Another type of nonsampling error is taxpayer error. Every effort was made to correct such errors during statistical processing. For example, if a taxpayer reported tax on an ozone-depleting chemical for 1993, but based the tax on a 1992 tax rate, the tax was corrected to reflect the true liability. Most corrections were made to returns reporting one or more of the three ODC taxes, although the largest dollar corrections to tax were to the tax on chemicals. These corrections amounted to \$23.3 million (89 percent), but affected only 64 returns. On the other hand, corrections to the tax on imported products containing ODC's affected 391 returns, about one-sixth of all returns filed, but, in comparison, these corrections totaled only \$1.9 million.

The Internal Revenue Service also releases quarterly environmental excise tax statistics in a separate report (Internal Revenue Report of Excise Taxes) [5]. Data for that report are taken from the Form 720, rather than the attached Form 6627, and show tax liabilities after credits and refunds, for returns as recorded in the Internal Revenue Service Business Master File (BMF) as part of routine processing for tax administration. The data, however, are not classified by type of chemical, and, as explained below, are not directly comparable to the data presented in this article. Notwithstanding these limitations, this report was used as the source of data for 1992 on ozone-depleting chemical taxes, inasmuch as Statistics of Income data on this tax were not compiled before Tax Year 1993.

The aforementioned report represents tax amounts reported on Form 720 returns processed *in* a given quarter, regardless of when the tax liability was incurred. Conversely, for this article, taxes for a given quarter represent the amount reported on Form 6627 *for* the quarter in which the tax liability was incurred, regardless of when the return was processed. Tax amounts presented in this paper also include liabilities reported on returns filed after the original due date because of routine filing extensions and for other reasons.

## **Notes and References**

[1] The number of filers (2,539) represents distinct organizations that filed Form 6627 to report tax liabilities incurred during one or more quarters of 1993 and therefore differs from the total number of quarterly returns filed for the year (5,305 returns). Although some businesses file Form 6627 for all four

quarters, many filed only for the second quarter, reporting the floor stocks tax on ozone-depleting chemicals held as inventories. Other businesses may not have had environmental excise tax liabilities for all four quarters of the year.

[2] For Calendar Year 1993, the statistics focus on the tax after credits and refunds. Previous articles emphasized the tax before credits and refunds. This shift in emphasis is the result of systemic changes to statistical procedures affecting the capture of tax data and the reports produced from the statistical database. For comparison, Figures C and D of this article present comparable data "before credits and refunds" for 1992 and 1993 [25].

For 1990 through 1992, total environmental excise taxes (before credits and refunds) hovered around \$1.12 billion, while credits and refunds reduced the tax liability to approximately \$1.08 billion for each of the 3 years. (See the Credits and Refunds section of this article for more detail.)

- [3] There have been annual Statistics of Income studies on environmental excise taxes starting with Tax Year 1981, except for 1986. The 1993 study is the first year for which ozone-depleting chemical taxes have been compiled. For the most recent prior years, see Mahler, Susan J., "Environmental Excise Taxes, 1988," Statistics of Income Bulletin, Fall 1990, Volume 10, Number 2; "Environmental Excise Taxes, 1989," Statistics of Income Bulletin, Winter 1991-1992, Volume 11, Number 3;"Environmental Excise Taxes, 1990," Statistics of Income Bulletin, Winter 1992-1993, Volume 12, Number 3; and Boroshok, Sara P., "Environmental Excise Taxes, 1991," Statistics of Income Bulletin, Summer 1993, Volume 13, Number 1; and "Environmental Excise Taxes, 1992," Statistics of Income Bulletin, Winter 1994-1995, Volume 14, Number 3. For a discussion of Federal excise taxes generally, see Davie, Bruce F., "Excise Taxes, Fiscal Year 1992," Statistics of Income Bulletin, Fall 1993, Volume 13, Number 2.
- [4] In addition to the Hazardous Substance Superfund and the Oil Spill Liability Trust Fund, the other Federal (excise tax) trust funds are: Airport and Airway Trust Fund (AATF); Aquatic Resources Trust Fund (ARTF); Black Lung Disability Trust Fund (BLDTF); Harbor Maintenance Trust Fund (HMTF); Highway Trust Fund (HTF); Inland Waterways Trust

Fund (IWTF); Leaking Underground Storage Tank Trust Fund (LUST); National Recreational Trails Trust Fund (NRTTF); and Vaccine Injury Compensation Trust Fund (VICTF). Credits can be claimed against obsolete trust funds: (1) Deepwater Port Liability Trust Fund; (2) Offshore Oil Pollution Compensation Fund; and the (3) Trans-Alaska Pipeline Fund.

- [5] U.S. Department of the Treasury, Internal Revenue Service, *Internal Revenue Report of Excise Taxes*, issued quarterly, includes total ozone-depleting taxes, from the inception of the tax (1990).
- [6] For tax years beginning after December 31, 1986, and before January 1, 1996, in addition to the environmental excise taxes, corporations were also liable for an environmental income tax equal to 0.12 percent of the amount in excess of \$2 million of "modified alternative minimum taxable income" for the year. Members of a controlled group of corporations were entitled to one \$2 million exemption. This tax, which is deposited in the Superfund, is reported on a corporate income tax return in the Form 1120 series, and is not included in these statistics. The corporate environmental income tax averaged approximately \$0.5 billion for each year between 1990 and 1993 (see "Selected Historical and Other Data," Table 13, Statistics of Income Bulletin, Winter 1995 - 1996, Volume 15, Number 3).
- [7] The Montreal Protocol on Substances that Deplete the Ozone Layer was an extension of the agreements by the original parties to the Vienna Convention for the Protection of the Ozone Layer, 1985. Sponsored by the United Nations Environmental Program, the Protocol, obligated under the Convention to protect human health and the environment against adverse effects resulting from human activities which modify the ozone layer, recognized that emissions of certain substances, worldwide, could significantly deplete and otherwise modify the ozone layer. The ultimate objective of parties to the Protocol was to eliminate emissions of substances that deplete the ozone layer. The treaty established consumption levels of substances to be "controlled," with 1986 consumption levels serving as a benchmark.

The specifics of the Montreal Protocol, and the Clean Air Act of 1990 established reduced production and consumption levels of CFC's and halons annually, with their phase-out, called for under the Protocol, by January 1, 2000. In 1993, this phase-out was accelerated by the U.S. Environmental Protection Agency to January 1, 1996.

In 1990, the London Amendment to the Montreal Protocol increased the number of controlled substances from 8 to 20. In addition, it accelerated the timetable to curb CFC production and consumption with total phase-out of CFC's and halons required by the year 2000. A freeze was placed on the production and consumption of halons at 1986 levels. For 5 years, beginning with 1996, the sale, use, or manufacture of halons was to be further reduced to 50 percent of the 1986 levels, with a total phase-out by the year 2000. For carbon tetrachloride, the timetable was identical to that of halons, except that reductions to 15 percent, rather than 50 percent, were set after the fifth year.

The 1992 Copenhagen Amendment to the Montreal Protocol added "Class II" ODC's, i.e., hydrochlor-fluorocarbons, to the phase-out list and further accelerated the overall phase-out timetable. "Class I" halons were to be phased-out by the end of 1994, followed by CFC's by the end of 1995. Carbon tetrachloride production and consumption was to be reduced to 85 percent by 1995, with complete phase-out by January 1, 1996.

- [8] In determining tax liability on imported products containing or manufactured using ozone-depleting chemicals, the weight of the product can be calculated in two different ways. The exact method allows the importer to determine the weight of each ODC used as a material in the manufacture of the product. Appropriate records must support this determination. With the table method, the importer must employ the "Imported Products Reference Table" (Appendix) to determine ODC weight:
- [9] For 1993, there were four exceptions to the general rule that the ODC tax rate is figured by multiplying the annual "base tax rate" by the "ozone-depletion factor". As amended by Public Law 102-486, these include the ODC tax on: (1) halon-1211, (2) halon-1301, (3) halon-2402, taxed at 2.49 percent, 0.75 percent, and 1.24 percent, respectively, of the "base tax rate" multiplied by the "ozone-depletion factor". In addition, methyl chloroform is taxed at 63.02 percent of the "base tax rate" multiplied by the "ozone-depletion factor".

- [10] See Thomas A. Barthold, "Issues in the Design of Environmental Excise Taxes," *Journal of Economic Perspectives*, Vol. 8, No. 1, Winter 1994, pp. 133-151.
- [11] See Peter R. Merrill and Ada S. Rousso, "Environmental Taxation," *Proceedings of the Eighty-Third Annual Conference* 1990, National Tax Association -- Tax Institute of America, pp. 191-198.
- [12] See Barthold, op. cit.
- [13] Comprehensive National Energy Policy Act of 1992, 102D Congress, 2d Session, House of Representatives, p. 45.
- [14] Barthold, pp. 141-142.
- [15] For 1993, the following reduced tax rates were assigned: (1) halon-1211, \$.2502; (2) halon-1301, \$.2512; (3) halon-2402, \$.2492; (4) methylchloroform, \$.2111; and (5) ODC's used in rigid foam insulation, \$.2499. ODC's used as medical sterilants and propellants for metered-dose inhalers were both assigned the reduced tax rate of \$1.67 per pound.
- [16] See Internal Revenue Service regulations, section 52.4682-3(f)(6).
- [17] See Internal Revenue Service regulations, section 52.4682-3(c)(2). This election would be advantageous to the importer with a large inventory of imported taxable products on the initial effective date of the tax, because sale or use of imported products after the effective date would otherwise have been taxable. If the importer opts for this election, it applies to all products brought into the United States by the importer after the effective date of the election. The election may not be revoked without the consent of the Internal Revenue Service.
- [18] See Internal Revenue Service regulations, section 52.4682-3(c)(3).

- [19] See Internal Revenue Service regulations, section 52.4681-1(c)(7)(ii).
- [20] The de minimis amount of tax is calculated using an artificial tax rate of \$1.00 per pound of ODC contained in or used in the manufacture of the product. By comparison, the 1993 tax rate for the most common ODC's was \$3.35 per pound.
- [21] See Bruce F. Davie, "Border Adjustments for Environmental Excise Taxes: The U.S. Experience," a paper prepared for the Allied Social Science Associations, January 8, 1995, Washington, D.C., for an analysis of the practical aspects of taxes on imported chemical substances and imported products containing or manufactured using ozone-depleting chemicals.
- [22] Chemical taxes devoted to the Superfund include taxes on 42 chemicals: 11 petrochemicals and 31 inorganic chemicals. The Internal Revenue Service provides reports to the U.S. Environmental Protection Agency (EPA) on Superfund tax information, and classifies chemical amounts into these two categories, for EPA's use.
- [23] Reprinted with permission from Air Pollution Control, Bureau of National Affairs, Inc., 1993, pp. 100:609-610.
- [24] Credits presented here reflect credits claimed by Form 6627 filers. When pertinent data were available during statistical processing on either: Form 720, Quarterly Federal Excise Tax Return; or Form 843, Claim for Refund, these data were also included. However, not all Forms 720 and Forms 843 are represented in these statistics.
- [25] The line item for reporting credits on Form 720 reads "Adjustments and Claims," and has been referred to in this article as "Credits and Refunds" whereas in previous articles it was referred to as "Adjustments and Credits."

mported Products Reference Table (Both Taxable and No	n dayahlak te	oludina. Minture C		
Ozone-Depleting Chemicals, and Imported Products Used				
by Imported Product <sup>1</sup>	i loi; itemigera	and Licetionics		
	Harmonized	,	ODC weight	
Product names	tariff schedule	Ozone-depleting	(pounds per	
	heading <sup>2</sup>	chemical(s)	product)	
	(1)	(2)	(3)	
Part I - Products that are mixtures containing ODC's 3				
unti-static sprays	N/A	CFC11, CFC12, CFC113	N/A	
Automotive products: (carburetor cleaner, 'Stop leak' and oil charge)	N/A	CFC11, CFC12, CFC113	· N/A	
Cleaning solvents .	N/A	CFC113, CFC11, Methyl Chloroform, CFC12	N/A	
Contact cleaners	N/A	CFC11, CFC12, CFC113	N/A	
Degreasers	N/A	CFC113	N/A	
Dusting sprays	N/A	CFC11, CFC12, CFC113	N/A	
Electronic circuit board coolants	N/A	CFC113	. N/A	
Electronic solvents	N/A	CFC11, CFC12, CFC113	N/A	
Ethylene oxide	N/A	CFC12	N/A	
ire extinguisher preparations and charges		Halon 1211, Halon 1301	N/A	
lux removers for electronics	N/A	CFC11, CFC12, CFC113	N/A	
nsect and wasp sprays	N/A	CFC11, CFC12, CFC113	N/A	
dixtures of ODC's	N/A	N/A	, N/A	
Propellants	N/A	CFC11, CFC12, CFC113	N/A	
Refrigerants	N/A	CFC114, CFC11, CFC12	N/A	
conditioning, creating an aerosol or foam, or manufacturing electronic components		t		
	N/A	Varies	N/A	
components	N/A N/A	Varies Varies		
Rigid foam insulation defined in 52.4682-1(c)(3)		,	, N/A	
Rigid foam insulation defined in 52.4682-1(c)(3)  Foams made with ODC's (other than above)	N/A	Varies	, N/A N/A	
Rigid foam insulation defined in 52.4682-1(c)(3)  Foams made with ODC's (other than above)  Scrap flexible foam with ODC's  Surgical staplers	N/A N/A	Varies Varies	N/A N/A	
Formponents  Grigid foam insulation defined in 52.4682-1(c)(3)  Foams made with ODC's (other than above)  Formpole foam with ODC's	N/A N/A N/A	Vanes Vanes Varies	N/A N/A N/A	
Rigid foam insulation defined in 52.4682-1(c)(3)  Foams made with ODC's (other than above)  Scrap flexible foam with ODC's	N/A N/A N/A N/A	Varies Varies Varies Varies	N/A N/A N/A N/A	
Components  Gligid foam insulation defined in 52.4682-1(c)(3)  Foams made with ODC's (other than above)  Scrap flexible foam with ODC's  Surgical staplers  Cryogenic medical instruments  Orug delivery systems	N/A N/A N/A N/A	Varies Varies Varies Varies Varies	N/A N/A N/A N/A N/A	
Gromponents  Gligid foam insulation defined in 52.4682-1(c)(3)  Foams made with ODC's (other than above)  Scrap flexible foam with ODC's  Surgical staplers  Cryogenic medical instruments  Drug delivery systems  Inhalants	N/A N/A N/A N/A N/A	Varies Varies Varies Varies Varies	N/A N/A N/A N/A N/A 0.3440	
Gromponents  Gligid foam insulation defined in 52.4682-1(c)(3)  Foams made with ODC's (other than above)  Gorap flexible foam with ODC's  Surgical staplers  Cryogenic medical instruments  Drug delivery systems  Inhalants  Dehumidifiers (household)	N/A N/A N/A N/A N/A N/A 8415.82.00.50	Varies Varies Varies Varies Varies CFC12	N/A N/A N/A N/A N/A 0.3440 1,600.0000	
Rigid foam insulation defined in 52.4682-1(c)(3) Foams made with ODC's (other than above) Scrap flexible foam with ODC's Surgical staplers Cryogenic medical instruments Drug delivery systems Inhalants Dehumidifiers (household) Chillers charged with CFC12	N/A N/A N/A N/A N/A N/A 8415.82.00.50 8415.82.00.65	Varies Varies Varies Varies Varies Varies CFC12	N/A N/A N/A N/A N/A 0.3440 1,600.0000 1,250.0000	
Rigid foam insulation defined in 52.4682-1(c)(3) Foams made with ODC's (other than above) Scrap flexible foam with ODC's Surgical staplers Cryogenic medical instruments Drug delivery systems Inhalants Dehumidifiers (household) Chillers charged with CFC12 Chillers charged with CFC114	N/A N/A N/A N/A N/A N/A 8415.82.00.50 8415.82.00.65 8415.82.00.65	Varies Varies Varies Varies Varies Varies CFC12 CFC12	N/A N/A N/A N/A N/A 0.3440 1,600.0000 1,250.0000	
Gromponents  Grigid foam insulation defined in 52.4682-1(c)(3)  Foams made with ODC's (other than above)  Grap flexible foam with ODC's  Grupical staplers  Cryogenic medical instruments  Orug delivery systems  Inhalants  Ochumidifiers (household)  Chillers charged with CFC12  Chillers charged with CFC114  Chillers charged with R-500  Refrigerator-freezers (household) not greater than 184 liters	N/A N/A N/A N/A N/A N/A 8415.82.00.65 8415.82.00.65 8415.82.00.65	Varies Varies Varies Varies Varies Varies CFC12 CFC114 CFC12	N/A N/A N/A N/A N/A 0.3440 1,600.0000 1,250.0000 1,920.0000	
Rigid foam insulation defined in 52.4682-1(c)(3) Foams made with ODC's (other than above) Foarp flexible foam with ODC's Foarp flexible	N/A N/A N/A N/A N/A N/A 8415.82.00.50 8415.82.00.65 8415.82.00.65 8415.82.00.65	Varies Varies Varies Varies Varies Varies CFC12 CFC114 CFC12 CFC111	N/A N/A N/A N/A N/A 0.3440 1,600.0000 1,250.0000 1,920.0000 1.0800 0.1300	
Rigid foam insulation defined in 52.4682-1(c)(3) Foams made with ODC's (other than above) Foarp flexible foam with ODC's Foarp flexible flexi	N/A N/A N/A N/A N/A N/A N/A 8415.82.00.50 8415.82.00.65 8415.82.00.65 8415.82.00.65 8418.10.00.10 8418.10.00.20 8418.10.00.20	Varies Varies Varies Varies Varies Varies CFC12 CFC12 CFC114 CFC12 CFC11 CFC11 CFC12 CFC11	N/A N/A N/A N/A N/A 0.3440 1,600.0000 1,250.0000 1,920.0000 0.1300 0.1300 0.2600	
Rigid foam insulation defined in 52.4682-1(c)(3) Foams made with ODC's (other than above) Foarp flexible foam with ODC's Foarp flexible flexible foam with ODC's Foarp flexible foam with ODC's Foarp flexible	N/A N/A N/A N/A N/A N/A 8415.82.00.50 8415.82.00.65 8415.82.00.65 8415.82.00.65 8418.10.00.10 8418.10.00.20 8418.10.00.20 8418.10.00.30	Varies Varies Varies Varies Varies Varies Varies CFC12 CFC112 CFC114 CFC12 CFC11 CFC11 CFC12 CFC111 CFC12 CFC111	N/A N/A N/A N/A 0.3440 1,600.0000 1,250.0000 1,920.0000 0.1300 0.1300 0.2600 1.5400	
Rigid foam insulation defined in 52.4682-1(c)(3) Foams made with ODC's (other than above) Scrap flexible foam with ODC's Surgical staplers Cryogenic medical instruments Orug delivery systems Inhalants Dehumidifiers (household) Chillers charged with CFC12 Chillers charged with CFC114 Chillers charged with R-500 Refrigerator-freezers (household) not greater than 184 liters Refrigerator-freezers (household) greater than 184 liters less than or equal to 269 liters Refrigerator-freezers (household) greater than 184 liters less than or equal to 269 liters Refrigerator-freezers (household) greater than 184 liters less than 382 liters Refrigerator- freezers (household) greater than 269 liters less than 382 liters	N/A N/A N/A N/A N/A N/A N/A 8415.82.00.65 8415.82.00.65 8415.82.00.65 8415.82.00.65 8418.10.00.10 8418.10.00.20 8418.10.00.20 8418.10.00.30	Varies Varies Varies Varies Varies Varies Varies CFC12 CFC114 CFC12 CFC111 CFC12 CFC111 CFC12 CFC111 CFC12 CFC111 CFC12	N/A N/A N/A N/A N/A 0.3440 1,600.0000 1,250.0000 1,920.0000 1,0800 0.1300 0.2600 1.5400 0.3500	
Rigid foam insulation defined in 52.4682-1(c)(3) Foams made with ODC's (other than above) Scrap flexible foam with ODC's Surgical staplers Cryogenic medical instruments Orug delivery systems Inhalants Dehumidifiers (household) Chillers charged with CFC12 Chillers charged with CFC114 Chillers charged with R-500 Refrigerator-freezers (household) not greater than 184 liters Refrigerator-freezers (household) greater than 184 liters less than or equal to 269 liters Refrigerator-freezers (household) greater than 184 liters less than or equal to 269 liters Refrigerator-freezers (household) greater than 184 liters less than 382 liters Refrigerator- freezers (household) greater than 269 liters less than 382 liters	N/A N/A N/A N/A N/A N/A 8415.82.00.50 8415.82.00.65 8415.82.00.65 8415.82.00.65 8418.10.00.10 8418.10.00.20 8418.10.00.20 8418.10.00.30	Varies Varies Varies Varies Varies Varies Varies CFC12 CFC112 CFC114 CFC12 CFC11 CFC11 CFC12 CFC111 CFC12 CFC111	N/A N/A N/A N/A N/A 0.3440 1,600.0000 1,250.0000 1,920.0000 1,0800 0.1300 0.2600 1.5400 0.3500	
Rigid foam insulation defined in 52.4682-1(c)(3) Foams made with ODC's (other than above) Foams made with ODC's Foams made with ODC'	N/A N/A N/A N/A N/A N/A N/A 8415.82.00.65 8415.82.00.65 8415.82.00.65 8415.82.00.65 8418.10.00.10 8418.10.00.20 8418.10.00.20 8418.10.00.30	Varies Varies Varies Varies Varies Varies Varies CFC12 CFC114 CFC12 CFC111 CFC12 CFC111 CFC12 CFC111 CFC12 CFC111 CFC12	N/A N/A N/A N/A N/A 0.3440 1,600.0000 1,250.0000 1,920.0000 0.1300 0.1300 0.2600 1.5400 0.3500	
Rigid foam insulation defined in 52.4682-1(c)(3)  Foams made with ODC's (other than above)  Scrap flexible foam with ODC's  Surgical staplers  Cryogenic medical instruments  Drug delivery systems  Inhalants  Dehumidifiers (household)  Chillers charged with CFC12  Chillers charged with CFC114  Chillers charged with R-500  Refrigerator-freezers (household) not greater than 184 liters  Refrigerator-freezers (household) greater than 184 liters less than or equal to 269 liters  Refrigerator-freezers (household) greater than 269 liters less than 382 liters  Refrigerator-freezers (household) greater than 269 liters less than 382 liters  Refrigerator-freezers (household) greater than 269 liters less than 382 liters	N/A N/A N/A N/A N/A N/A N/A 8415.82.00.65 8415.82.00.65 8415.82.00.65 8415.82.00.65 8418.10.00.10 8418.10.00.20 8418.10.00.20 8418.10.00.30 8418.10.00.30	Varies Varies Varies Varies Varies Varies Varies CFC12 CFC12 CFC114 CFC12 CFC11 CFC12 CFC11 CFC12 CFC11 CFC12 CFC11	N/A N/A N/A N/A N/A N/A 0.3440 1,600.0000 1,250.0000 1,920.0000 1,920.0000 0.1300 0.2600 1.5400 0.3500 1.8700 0.3500	
Rigid foam insulation defined in 52.4682-1(c)(3) Foams made with ODC's (other than above) Scrap flexible foam with ODC's Surgical staplers Cryogenic medical instruments Orug delivery systems Inhalants Dehumidifiers (household) Chillers charged with CFC12 Chillers charged with CFC114 Chillers charged with R-500 Refrigerator-freezers (household) not greater than 184 liters Refrigerator-freezers (household) greater than 184 liters less than or equal to 269 liters Refrigerator-freezers (household) greater than 184 liters less than or equal to 269 liters Refrigerator-freezers (household) greater than 269 liters less than 382 liters Refrigerator-freezers (household) greater than 269 liters less than 382 liters Refrigerator-freezers (household) greater than 382 liters Refrigerator-freezers (household) greater than 382 liters	N/A N/A N/A N/A N/A N/A N/A 8415.82.00.65 8415.82.00.65 8415.82.00.65 8415.82.00.65 8418.10.00.10 8418.10.00.20 8418.10.00.20 8418.10.00.30 8418.10.00.30 8418.10.00.40	Varies Varies Varies Varies Varies Varies Varies Varies CFC12 CFC114 CFC12 CFC111 CFC12 CFC11 CFC12 CFC11 CFC12 CFC11 CFC12 CFC11 CFC12 CFC11 CFC12 CFC11	N/A N/A N/A N/A N/A 0.3440 1,600.0000 1,250.0000 1,920.0000 0.1300 0.1300 0.2600 1.5400 0.3500	
Rigid foam insulation defined in 52.4682-1(c)(3)  Foams made with ODC's (other than above)  Scrap flexible foam with ODC's  Surgical staplers  Cryogenic medical instruments  Drug delivery systems  Inhalants  Dehumidifiers (household)  Chillers charged with CFC12  Chillers charged with CFC114  Chillers charged with R-500  Refrigerator-freezers (household) not greater than 184 liters  Refrigerator-freezers (household) greater than 184 liters less than or equal to 269 liters  Refrigerator-freezers (household) greater than 184 liters less than or equal to 269 liters  Refrigerator-freezers (household) greater than 269 liters less than 382 liters  Refrigerator-freezers (household) greater than 269 liters less than 382 liters  Refrigerator-freezers (household) greater than 382 liters	N/A N/A N/A N/A N/A N/A 8415.82.00.65 8415.82.00.65 8415.82.00.65 8415.82.00.65 8418.10.00.10 8418.10.00.20 8418.10.00.20 8418.10.00.30 8418.10.00.40 8418.10.00.40 8418.10.00.40	Varies Varies Varies Varies Varies Varies Varies CFC12 CFC114 CFC12 CFC111 CFC12 CFC11 CFC12 CFC11 CFC12 CFC11 CFC12 CFC11 CFC12 CFC11 CFC12 CFC11	N/A N/A N/A N/A N/A N/A 0.3440 1,600.0000 1,250.0000 1,920.0000 0.1300 0.1300 0.2600 1.5400 0.3500 1.8700	

# **Appendix**

Imported Products Reference Table (Both Taxable and Non-taxable), Including: Mixtures Containing Ozone-Depleting Chemicals, and Imported Products Used for Refrigeration and Electronics, by Imported Product 1--Continued

Product names	Harmonized tariff schedule heading <sup>2</sup>	Ozone-depleting chemical(s)	ODC weight (pounds per product)	
	(1)	(2)	(3)	
Part II—Products in which ODC's are used for purposes of refrigeration or air conditioning, creating an aerosol or foam, or manufacturing electronic components—continued				
Refrigerators (household) greater than 269 liters less than 382 liters	8418.10.00.40	CFC11	1.5400	
Refrigerators (household) greater than 269 liters less than 382 liters	8418.10.00.40	CFC12	0.3500	
Refrigerators (household) greater than 382 liters	8418.10.00.40	CFC11	1.8700	
Refrigerators (household) greater than 382 liters	8418.10.00.40	CFC12	0.3500	
Freezers (household)	8418.30;8418.40	CFC11	2.0000	
Freezers (household)	8418.30;8418.40	CFC12	0.4000	
Refrigerating display counters not greater than 227	8418.50	CFC11, CFC12	260.0000	
cemaking machines charged with CFC12	8418.69	CFC12	1.4000	
cemaking machines charged with R-502	8418.69	CFC115	3.3900	
Drinking water coolers charged with CFC12	8418.69	CFC12	0.2100	
Drinking water coolers charged with R-500	8418.69	CFC12	0.2200	
Centrifugal chiller, hermetic charged with CFC12	8418.69	CFC12	1,250.0000	
Centrifugal chiller, hermetic charged with CFC114	8418.69	CFC114	1,920.0000	
Centrifugal chiller, hermetic charged with R-500	8418.69	CFC12, CFC114	1,600.0000	
Reciprocating chiller charged with CFC12	8418.69	CFC12	1,250.0000	
Mobil refrigeration containers	8418.99	CFC12	15.0000	
Mobile refrigeration trucks	8418.99	CFC12	11.0000	
Mobile refrigeration trailers	8418.99	CFC12	20.0000	
Refrigeration condensing units not greater than 746w	8418.99.00.05	CFC12	0.3000	
Refrigeration condensing units greater than 746w and less than or equal to 2.2 kilowatts	8418.99.00.10	CFC12	1.0000	
Refrigeration condensing units greater than 2.2 kilowatts less than or equal to 7.5 kilowatts	8418,99.00,15	CFC12	3.0000	
Refrigeration condensing units greater than 7.5 kilowatts less than or equal to 22.3 kilowatts	8418.99.00.20	CFC12	8.5000	
Refrigeration condensing units greater than 22.3 kilowatts	8418.99.00.25	CFC12	17.0000	
Fire extinguishers, charged with ODC's	8424.00	N/A	N/A	
Electronic typewriters and word processors	8469.00	CFC113	0.2049	
Electronic calculators	8470.10	CFC113	0.0035	
Electronic calculators with printing device	8470.21	CFC113	0.0057	
Electronic calculators	8470.10	CFC113	0.0035	
Account machines	8470.40	CFC113	0.1913	
Cash registers	8470.50	CFC113	0.1913	
Digital automatic data processing machine with cathode ray tube, not included in subheading 8471.70.00.90	8471.20	CFC113	0.3663	
Laptops, notebooks and pocket computers	8471.20.00.90	CFC113	0.0357	
Digital processing unit with entry value not greater than 100k	8471.91	CFC113	0.4980	
Digital processing unit with entry value greater than 100k	8471.91	CFC113	27.6670	
Combined input/output units (terminal)	8471.92	CFC113	0.3600	
Keyboards	8471.92	CFC113	0.0742	
Display units	8471.92	CFC113	0.0386	
Printer units	8471.92	CFC113	0.1558	
Input or output units	8471.92	CFC113	0.1370	

# **Appendix**

Imported Products Reference Table (Both Taxable and Non-taxable), Including: Mixtures Containing Ozone-Depleting Chemicals, and Imported Products Used for Refrigeration and Electronics, by Imported Product 1--Continued

Product names	Harmonized tariff schedule heading <sup>2</sup>	Ozone-depleting chemical(s)	ODC weigh (pounds pe product)	
	(1)	(2)	(3)	
Part II-Products in which ODC's are used for purposes of refrigeration or air conditioning, creating an aerosol or foam, or manufacturing electronic components-continued		•		
Hard magnetic disk drive units for a disk of a diameter greater than 9cm but not greater than 21 cm (not included in subheading 8471.93.10)  Hard magnetic disk drive units for a disk of a diameter not greater than 9cm (not	8471.93	CFC113	0.2829	
included in subheading 8471.93.10)	8471.93	CFC113	1.1671	
Nonmagnetic storage unit with entry value greater than \$1,000	8471.93	CFC113	2.7758	
Magnetic disk drive units for a disk of a diameter over 21 cm (8.1/4 inches)	8471.93.10	CFC113	4.0067	
Power supplies	8471.99.30	CFC113	0.0655	
Electronic office machines	8472.00	CFC113	0.0010	
Populated card for digital processing unit in subheading 8471.91 valued \$100k andunder	= 8473.30	CFC113-	0.1408	
Populated card for digital processing unit in subheading 8471.91 valued over \$100k	8473.30	CFC113	4.8200	
Automatic goods-vending machines with refrigerating device	8476.11	CFC112	0.4500	
Microwave ovens with electronic controls capacity: .99 cubic feet or less	8516.50	CFC113	0.0300	
Microwave ovens with electronic controls capacity: 1.0 -1.3 cubic feet	8516.50	CFC113 -	0.0441	
Microwave ovens with electronic controls capacity: 1.3 cubic feet or greater	8516.50	CFC113	0.0485	
Microwave oven consumption with electronic controls	8516.80.40.80	. CFC113	0.0595	
Telephone sets with entry value not greater than \$11.00	8517.10	CFC113	0.0225	
Telephone sets with entry value greater than \$11.00	8517.10	CFC113	0.1000	
Teleprinters and teletypewriters	8517.20	CFC113	0.1000	
Switching equipment not included in subheading 8517.30.20	8517.30	CFC113	0.1267	
Private branch exchange switching equipment	8517.30.20	CFC113	0.0753	
Modems	8517.40	CFC113	0.0225	
Intercoms	8517.81	CFC113	0.0225	
Facsimile machines	8517.82	CFC113	. 0.0225	
Loudspeakers, microphones, headphones, & electric sound amplifier sets, not included in subheading 8518.30.10	8518.00	CFC113	0.0022	
Telephone handsets	8518.30.10	CFC113	0.0420	
Turntables, record players, cassette players, and other sound reproducing apparatus	8519.00	CFC113	0.0022	
Magnetic tape recorders & other sound recording apparatus, not included in subheading 8520.20	8520.00	CFC113	0.0022	
Telephone answering machines	8520.20	CFC113	0.1000	
Color video recording/reproducing apparatus	8510.00.20	CFC113	0.0586	
Videodisc players	8521.90	- CFC113	0.1060	
Cordless handset telephones	8525.20.50	CFC113	0.1000	
Cellular communication equipment	8525.20.60	CFC113	0.4446	
TV cameras	8525.30	CFC113	1.4230	
Camcorders	8525.30	CFC113	0.0586	
Radio combinations	8527.11	CFC113	0.0022	
Radios	8527.19	CFC113	0.0014	
Motor vehicle radios with or without tape player	8527.21	CFC113	0.0021	
Radio combinations	8527.31	CFC113	0.0022	
Radios	8527.32	CFC113	0.0014	

# **Appendix**

Imported Products Reference Table (Both Taxable and Non-taxable), Including: Mixtures Containing Ozone-Depleting Chemicals, and Imported Products Used for Refrigeration and Electronics, by Imported Product ¹--Continued

Product names	Harmonized tariff schedule heading <sup>2</sup>	Ozone-depleting chemical(s)	ODC weight (pounds per product)
	(1)	(2)	(3)
Part IIProducts in which ODC's are used for purposes of refrigeration or air conditioning, creating an aerosol or foam, or manufacturing electronic componentscontinued			
Tuner without speaker	8527.39.00.20	CFC113	0.0022
Television receivers	8528.00	CFC113	0.0386
VCRs	8528.10.40	CFC113	0.0586
Home satellite earth stations	8528.10.80.55	CFC113	0.0106
Electronic assemblies for HTS headings 8525, 8527, & 8528	8529.90	CFC113	0.0816
Indicator panels incorporating liquid crystal devices or light emitting diodes	8531.20	CFC113	0.0146
Printed circuits	8534.00	CFC113	0.0010
Computerized numerical controls	8537.10.00.30	CFC113	0.1306
Electronic integrated circuits and microassemblies	8542.00	CFC113	0.0002
Signal generators	8543.20	CFC113	0.6518
Diodes, crystals, transistors and other similar discrete semiconductor devices	8541.00	CFC113	0.0001
Avionics	8543.90.40	CFC113	0.9150
Signal generators subassemblies	8543.90.80	CFC113	0.1265
Insulated or refrigerated railway freight cars	9606.00	CFC11	100.0000
Passenger automobiles: foams (interior)	8703.00	CFC11	0.8000
Passenger automobiles: foams (exterior)	8703.00	CFC11	0.7000
Passenger automobiles with charged a/c	8703.00	CFC12	2.0000
Passenger automobiles without charged a/c	8703.00	CFC12	0.2000
Passenger automobiles: electronics	8703.00	CFC113	0.5000
Light trucks: foams (interior)	8704.00	CFC11	0.6000
Light trucks: foams (exterior)	8704.00	CFC11	0.1000
Light trucks with charged a/c	8740.00	CFC12	2.0000
Light trucks without charged a/c	8740.00	CFC12	0.2000
Light trucks: electronics	8740.00	CFC13	0.4000
Heavy trucks or heavy trucks and tractors with GVW 33,001 lbs. or more foams	8704.00	CFC11	0.6000
(interior) Heavy trucks or heavy trucks and tractors with GVW 33,001 lbs. or more foams	8704.00	CFC11	0.1000
(exterior) Heavy trucks or heavy trucks and tractors with GVW 33,001 lbs. or more with fully charged a/c	8704.00	CFC12	2.0000
Heavy trucks or heavy trucks and tractors with GVW 33,001 lbs. or greater than without fully charged a/c	8704.00	CFC12	0.2000
Motorcycles with seat foamed with ODC's	8711.00	CFC11	0.0400
Bicycles with seat foamed with ODC's	8712.00	CFC11	0.0400
Seats foamed with ODC's	8714.95	CFC11	0.0400
Aircraft	8802.00	CFC12	0.25 lb/1K lbs.
Aircraft	8802.00	CFC113	30.0 lbs/1K lbs.
Optical fibers	9001.00	CFC12	0.005 lb/1K feet
Electronic cameras	9006.00	CFC113	0.0100
Photocopiers	9009.00	CFC113	0.0426
Avionics	9014.20	CFC113	0.9150
Electronic drafting machines	9017.00	CFC113	0.1200

# **Appendix**

Imported Products Reference Table (Both Taxable and Non-taxable), Including: Mixtures Containing Ozone-Depleting Chemicals, and Imported Products Used for Refrigeration and Electronics, by Imported Product 1--Continued

Product names	Harmonized tariff schedule heading <sup>2</sup>	Ozone-depleting chemical(s)	ODC weight (pounds per product)
	(1)	(2)	(3)
Part II-Products in which ODC's are used for purposes of refrigeration or air conditioning, creating an aerosol or foam, or manufacturing electronic components-continued			
Complete patient monitoring systems	9018.19.80	CFC12	0.9400
Complete patient monitoring systems	9018.19.80	CFC113_	3.4163
Complete patient monitoring systems; subassemblies thereof	9018.19.80.60	CFC113	1.9320
Physical or chemical analysis instruments	9027.00	CFC12	0.0003
Physical or chemical analysis instruments	9027.00	CFC113	0.0271
Oscilloscopes	9030.00	CFC11	0.4900
Oscilloscopes	9030.00	CFC12	0.5943
Oscilloscopes		CFC113	0.2613
coam chairs	9401.00	CFC11	0.3000
Foam sofas	9401.00	CFC11	0.7500
Foam mattresses	9404.21	CFC11	1.6000
Electronic games and electronic component thereof	9504.00	CFC113	0.004 lb./\$1 of ent value
Electronic items not otherwise listed	9504.00	CFC113	0.004 lb./\$1 of ent value
Part III - Products that are not imported Taxable Products			
Room air conditioners	8415.10.00.60	N/A	N/A
Dishwashers	8422.11	N/A	N/A
Clothes washers	8450.11	N/A	, N/A
Clothes dryers	8451.21	N/A	N/A
Floppy disk drive units	8471.93	· N/A	N/A
Transformers and inductors	8504.00	N/A	N/A
Toasters	8516.72	N/A	N/A
Jnrecorded media	8523.00	· N/A	N/A
Recorded media	8524.00	N/A	N/A
Capacitors	8532.00	N/A	N/A
Resistors	8533.00	N/A	N/A
Switching apparatus	8536.00	N/A	N/A

N/A - not applicable.

<sup>&</sup>lt;sup>1</sup> Reprinted from Publication 510, Excise Taxes for 1993, by the Internal Revenue Service, catalogue number 150141, pp. 34-38.

<sup>&</sup>lt;sup>2</sup> The Harmonized Tariff Schedule Heading is a numeric assignment used by the International Trade Commission to identify imported goods.

<sup>&</sup>lt;sup>3</sup> Imported mixtures containing ODC's are treated as imported ODC's sold or used rather than imported products.

Table 1.--Environmental Excise Taxes After Credits and Refunds, by Type of Substance, 1993

			Number	Tax rate	Tax before				lits and refunds rter ended-	<del>'                                    </del>	
	Number	Number of	of barrels, tons, or	per barrel, ton,	credits	İ	<del></del>	1993 qua	iter ended-		Yearly
Type of substance	of filers <sup>1</sup>	quarterly returns filed	pounds (thousands)	or pound (dollars)	and refunds	Yearly total	March	June	September	December	average per filer
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Tabel	2.539	5,305	N/A	NA	1,730,336	1,721,503	470,667	536,245	366,615	348,009	678
Total	2,555	0,000	Barrels	1	1,1.00,000	',',	,	ĺ			
Petroleum, total	326	943	9,870,269	N/A	672,763	672,696	200,313	194,336	138,954	139,094	2,063
Domestic petroleum, Superfund	127	437	2,727,424	0.097	n.a.	264,560	66,356	62,167	68,728	67,309	2,083
Domestic petroleum, Oil Spill Liability Trust			_,, _,, _			·			ļ		
Fund*	125	303	2,961,537	0.050	n.a.	66,249	34,204	32,045	-		529
Imported crude oil and petroleum products,								i			
Superfund	227	468	2,825,999	0.097	n.a.	274,122	66,042	66,069	70,226	71,785	1,207
Imported crude oil and petroleum products,						07.705	00.740	04.055	1		306
Oil Spill Liability Trust Fund*	221	305	1,355,309	0.050	n.a.	67,765	33,710	34,055	_	_	300
		i	Tons	1			<b>!</b>	1	1		
Petrochemicals and inorganic					000 400	000 700	60.012	69,379	73,899	70,604	625
chemicals, total		3,032	82,330	N/A	262,193	282,790	68,912		1 '		1,148
Petrochemicals, total		607	48,545	N/A	n.a.	233,102	57,371	56,275	61,495	57,961	1,148
Acetylene	54	149	156	4.870	n.a.	760	201	163	185	210	676
Benzene	49	139	6,810	4.870	n.a.	33,163	8,384	7,881	8,538	8,360	374
Butadiene	24	74	1,845	4.870	n.a.	8,983	2,325	2,099	2,209	2,349 628	374 72
Butane	35	107	523	4.870	n.a.	2,549	645	644	632		692
Butylene	5	17	711	4.870	n.a.	3,464	1,028	611	642	1,183	
Ethylene	34	122	20,744	4.870	n.a.	101,022	24,723	25,405	25,671	25,224 1,960	2,971 249
Methane	32	105	2,318	3.440	n.a.	7,973	2,205	1,823	1,986	1,900	11
Naphthalene	5	13	12	4.870	n.a.	58	30	16	6	1 -	1.081
Propylene		167	10,658	4.870	n.a.	51,907	12,132	11,993	15,554	12,229	1,061
Toluene		156	1,494	4.870	n.a.	7,275	1,917	1,705	1,726	1,927 3.886	279
Xylene	57	163	3,275	10.130	n.a.	15,949	3,782	3,934	4,347		
Inorganic chemicals, total	312	922	33,785	N/A	n.a.	49,688	11,595	13,104	12,404	12,636	159
Ammonia	78	217	3,387	2.640	n.a.	8,942	2,281	2,247	2,185	2,230	114
Antimony	10	23	1	4.450	n.a.	3	1	1 1	-1	2	_
Antimony trioxide	13	28	270	3.750	n.a.	101	28	19	27	27	7
Arsenic	] 3	10	(²)	4.450	n.a.	(²)	(2)	(2)	(2)	(²)	-
Arsenic trioxide		25	22	3.410	n.a.	74	22	22	18	13	10
Barium sulfide	•	6	(²)	2.300	n.a.	(2)	(2)	(²)	(2)	(²)	
Bromine		24	186	4.450	n.a.	828	195	208	204	221	73
Cadmium		35	2	4.450	n.a.	7	2	2	1 7 7 7 7	7046	704
Chlorine		122	11,222	2.700	n.a.	30,300	7,468	8,004	7,581	7,248	721
Chromite		11	179	1.520	n.a.	273	75	72	44	81	91
Chromium		36	18	4.450	n.a.	78	1	30	28	19	5 1
Cobait	10	32	4	4.450	n.a.	19	5	5	5	4	•
Cupric oxide	310	34	15	3.590	n.a.	53	13	13	16	12	

Footnotes at end of table.

Table 1.--Environmental Excise Taxes After Credits and Refunds, by Type of Substance, 1993--Continued

•			Number	Tax rate	Tax	Tax after credits and refunds							
	Number	Number of	of barrels,	per	before			1993 qua	rter ended-				
Type of substance	of filers 1	quarterly returns filed	tons, or pounds (thousands)	barrel, ton, or pound (dollars)	credits and refunds	Yearly total	March	June	September	December	Yearly average per filer		
	(1)	(2)	(3)	(4)	(5) .	(6)	(7)	(8)	(9)	(10)	(11)		
Inorganic chemicals-continued		:	· r			i .	-1	- '					
Cupric sulfate	16	36	35	1.870	n.a.	66	19	6	: 22	18	4		
Cuprous oxide	4	13.	7	3.970	n.a.	27	7	9	5	5	l 6		
Hydrochloric acid	59	178	843	0.290	. n.a.	244	₹ 51 .	72	63	58	4		
Hydrogen fluoride	15	43	236	4.230	n.a.	998	261	288	246	203	66		
Lead oxide	25	78	444	4.140	n.a.	1,840	, 464	486	414	477	73		
Mercury	5	9	(2)	4.450	n.a.	(2)	(²)	(2)	(2)	(2)			
Nickel	20	56	99	4.450	n.a.	439	113	111	96	118	21		
Nitric acid	36	105	1,495	0.240	n.a.	359	79	137	76	66	9		
Phosphorus	8	21	231	4.450	n.a.	1,026	267	263	253	244	128		
Potassium dichromate	3	4	(2)	1.690	n.a.	(2)		(2)	(2)	(2)			
Potassium hydroxide	30	80	627	0.220	n.a.	138	25	. 45	24	44 .	4		
Sodium dichromate		13	5	1.870	n.a.	10	1	1	5	3	1, 7		
Sodium hydroxide	78	222	9,182	0.280	n.a.	2,571	641	675	625	630	32		
Stannic chloride	5	13	12	2.120	n.a.	26	6	6	. 7	7,.	5		
Stannous chloride	4	. 8	1 1	2.850	n.a.	3	1	1	1 1	1			
Sulfuric acid	82	233	5,476	0.260	n.a.	1,424	391	331	355	347	17		
Zinc chloride	15	40	18	2.220	n.a.	39	11	12	9	7.	. 2		
Zinc sulfate	14	34	12	1.900	n.a.	23.	4	10	. 5	4.	1		
Other	17	19	N/A	- N/A	n.a.	-224	-893	31	90	549 .	-13		
and the second second		. 13	Tons	. 147	, II.a.		-095	7 31 7	; 30	J49 /	''		
ported chemical substances, total	107	303			40.000	0.000							
	107	303	5,011	(3)	13,339	8,903	2,529	1,750	2,259	2,364	83		
2-ethyl hexanol2-ethylhexyl acrylate		4	-17 168	(3.)	n.a.	-65	2	2	. 2	-70	(2)		
et vita in the contract of the	l !	-		(3)	n.a.	) (2)	; (²)			(²)	(2)		
Acetone		5	6	4.58	n.a.	25	31		20	-26	(2)		
Acrylic and methacrylic acid resins	-	 -		6.11	n.a.		-			'	-		
Acrylonitrile	4	7	(²)	7.05	n.a.	(²)	(²)	· (2)	(2)	; (2)	-		
Alpha-methylstyrene	-		4-4	(3)	n.a.				'				
Ammonium nitrate	5	14	152-	1.66	n.a.	225	93	. 10	108	14	45		
Bisphenol		<del>-</del>		(3)	n.a.		-		- 1				
Butyl acrylate		5	1,290	(3)	n.a.	13	3	. 4	4	. 2	(²)		
Carbon tetrachloride	3	6	32	3.00	n.a.	74	29	7	15	23	24		
Chloroform		5	22	3.95	n.a.	44	11	22	6	5	(²)		
Chromic acid	4	. 9	.2	2.72	n.a.	9	(2)	(²)	(2.)	9	2`		
Cumene	4	6	148	5.26	n.a.	865	332		292	241	216		
Cyclohexane	,**	3	· 12	. 5.01	n.a.	27		33	-1	-5	(²)		
Decabromodiphenyl oxide	-	2	·	(3)	n.a.	-					· `		
Ethyl acrylate	**	**	(²)	(3)	n.a.	(2)	!	( ²·)	. (2)	·	(²)		
Ethyl alcohol for nonbeverage use	5	12	. 532	3.07	n.a.	1,634	470	472 .	319	373	326		
Ethyl dibromide	·	- 1		(3)	n.a.		4						

Footnotes at end of table.

Table 1.--Environmental Excise Taxes After Credits and Refunds, by Type of Substance, 1993--Continued

	Number	Number of	Number of barrels,	Tax rate per	Tax before		T <sub>i</sub>		s and refunds rter ended-		
Type of substance	of filers <sup>1</sup>	quarterly returns filed	tons, or pounds (thousands)	barrel, ton, or pound (dollars)	credits and refunds	Yearly total	March	June	September	December	Yearly average per file
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Imported chemical substances-continued											· .
Ethyl methyl ketone	4	5	-14	5.11	n.a.	-60	6			-65	-15
Ethylbenzene	**	3	24	5.01	n.a.	117	3		112	2	(²)
Ethylene dichloride	3	5	85	3.51	n.a.	214	32		90	93	71
Ethylene glycol	7	17	91	3.26	n.a.	292	7	103	119	63	41
Ethylene oxide	3	8	34	4.33	n.a.	141	42	22	61	16	47
Ferrochrome ov 3 pct. carbon	3	4	25	0.71	n.a.	18	8		1	9	6
Ferrochromium nov 3 pct		3	2	3.65	n.a.	6	2		2	3	(2)
Ferronickel	3	7	7	(3)	n.a.	31	10	9	1	10	10
Formaldehyde	-		-	2.27	n.a.						-
Hydrogen peroxide	3	7	69	0.45	n.a.	231	5	3	111	112	77
Isobutyl acetate	<b>-</b>	-		(3)	n.a.						] -
Isophthalic acid		4	9	7.19	n.a.	37	8	7	8	14	(²)
Isopropyl acetate	l **	**	(2)	(3)	n.a.	(²)		(²)	(2)	-	(²)
Isopropyl alcohol	4	8	-6	4.14	n.a.	-39	14	17	8	-78	-9
Linear alpha olefins	3	10	-13	(3)	n.a.	-65	38	-14	-25	-64	-21
Maleic anhydride	•••	5	1	5.84	n.a.	9	1	3	3	2	(²)
Melamine	ł <u></u>		-	2.30	n.a.						<u> </u>
Methanoi	9	23	848	1.86	n.a.	1,713	301	434	462	516	190
Methyl acrylate	**	**	48	(3)	n.a.	83	83			-	-
Methyl chloroform	••	••	N/A	(3)	n.a.	(²)	(²)			(²)	(2)
Methyl isobutyl ketone	••	••	-1	(3)	n.a.	-4		1		-6	(2)
Methylene chloride	l			3.16	n.a.					-	
Nickel oxide		8	(²)	(3)	n.a.	1	(²)	(²)	(2)	(²)	(2)
Nickel powders		**	(2)	(3)	n.a.	(²)	(²)	(²)	_		-
Nickel waste and scrap	••	**	(²)	(3)	n.a.	(²)	(²)		-	-	-
Normal butyl acetate	-			(3)	n.a.		-			-	-
Normal propyl acetate	_			(3)	n.a.	-			-		-
Perchloroethylene	**	3	9	(3)	n.a.	29	3		22	3	(2)
Phenolic resins	5	16	29	7.27	n.a.	34	7	15	9	3	6
Phthalic anhydride	4	10	11	9.83	n.a.	50	16	22	4	7	12
Polyalphaolefins	3	8	-13	(3)	n.a.	-65		-27	-13	-24	-21
Polybutadiene	7	15	14	5.36	n.a.	68	23	16	9	19	9
Polyethylene resins (total)	11	32	262	5.06	n.a.	1,298	438	217	306	337	118
Polyethylene terephthalate pellets	3	9	5	(3)	n.a.	8	5	5	4	-6	2
Polypropylene	6	12	-3	5.11	n.a.	-13	(²)	3	-13	-3	-2
Polypropylene resins	6	12	76	5.11	n.a.	375	38	103	136	98	62
Polystyrene homopolymer resins	1	13	19	5.94	n.a.	103	38	5	24	36	17
Polystyrene resins and copolymers	5	11	9	(3)	n.a.	65	35	21	24	-16	13
Polyvinylchloride resins	8	18	36	5.99	n.a.	69	10	44	6	9	8

Footnotes at end of table.

Table 1.--Environmental Excise Taxes After Credits and Refunds, by Type of Substance, 1993--Continued

Type of substance	Number of filers <sup>1</sup>	Number of quarterly returns filed	Number of barrels, tons, or pounds (thousands)	per barrel, ton, or pound (dollars)	Tax before credits and refunds	Tax after credits and refunds 1993 quarter ended-						
						Yearly total	March	June	September	December	Yearly averag per file	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
ported chemical substances-continued .				!			1					
Propylene glycol		8	17	7.35	n.a.	76	2	13	60	1	19	
Propylene oxide	**	**	14	7.74	n.a.	108	60			48	( ²	
Styrene:		18	250	5.75	n.a.	794	415	-152	141	390	9:	
Styrene-butadiene (latex)	6	15	14	5.80	n.a.	37	10	6	12	9	1 1	
Styrene-butadiene (nspf)	4	4	-183	(³) <sup>i</sup>	n.a.	-487	1 <sub>1</sub>			-488	-12	
Synthetic rubber	8	23	55	5.06 1	n.a.	214	44	110	51	8	20	
Tetrabromobisphenol-A				(3):	n.a.	l	!					
Trichloroethylene	**	4	2	(3);	n.a.	3	· (2)	2	1	(²)	(2	
Unwrought nickel				(3)	n.a.	l ¦						
Urea	7	19	15	1.53	n.a.	21	8	10	2	2	;	
Vinyl acetate	**	4	143	(3)	n.a.	24			7	17	(2	
Vinyl chloride	1	6	295	5.82	n.a.	260	137	13	13	98	8	
Vinyl resins		4	-40	3.47	n.a.	-232	(2)	-232	(2)	(2)	(2	
Vinyl resins (nspf)				(3)	n.a.		l `		`	`	▎ `.	
Wrought nickel rods and wire	·	l <u></u>		(3) 1	n.a.		!	l				
Other chemical substances	47	97	417	(3)	n.a.	488	-290	422	-268	624	(2	
			Pounds	) `	,				j			
one-depleting chemical (ODC) taxes, total	1,605	2,780	467,109	(3)	758,649	757,113	198,858	270,781	151,502	135,954	472	
DC's (sold or used), total	197	378	374,954	N/A	629,712	629,223	168,248	208,339	135,458	117,178	3,194	
CFC-11	21	39	12,961	3.35	n.a.	43,418	10,578	14,399	15,177	3,264	2.067	
CFC-12	65	122	137,209	3.35	n.a.	459,651	120,777	160,962	94,155	83,757	7.07	
CFC-113	106	205	17,373	2.68	n.a.	46,561	17,653	11,402	10,154	7,353	439	
CFC-114	6	13	853	3.3500	n.a.	2,858	800	1,138	825	95	470	
CFC-115	15	28	8,614	2.0100	n.a.	17,314	1,993	5,876	5,506	3.939	1.154	
Halon-1211	10	19	1,267	0.2502	n.a.	317	.,000	132	69	116	3.	
Halon-1301	9	16	3,878	0.2512	n.a.	974	93	145	193	544	101	
Halon-2402	**	4	166	0.2492	n.a.	4	33	170	133	3	'`;	
Carbon tetrachloride	13	29	1,305	3.6850	n.a.	4,808	1,750	1,158	260	1,640	369	
Methyl chloroform	39	80	156,618	0.2111	n.a.	33,062	10,912	9,687	4,910	7.554	847	
CFC-13	2	6	150,616	3.3500	n.a.	231	53	9,067	83	7,554	11!	
						231					''	
CFC-111				3.3500	n.a.	i i	1	3	-	1		
CFC-112	· 7	12	17	3.3500	n.a.	56	52	1		-		
CFC-213	••		••	3.3500	n.a.					••	-	
CFC-214				3.3500 +	n.a.					·	-	
CFC-215				3.3500	n.a.						-	
CFC-216	•			3.3500	n.a.					·		
CFC-217				3.3000	n.a.						-	
ODC used in rigid foam insulation	**	7 '	19,940	0.2499	n.a.	<sub> </sub> 4,983	1,570	1,226	773	1,414	2,49	
ODC used to sterilize medical instruments	**	5	7,555	1.6700	n.a.	12,616	1,981	2,102	2,148	6,383	6,308	
ODC used as propellant in metered-dose				[ [	,	1						
inholos			, ,	1.6700 :	n.a.						_	
inhaler				1.0.00	11.04.		1 1					

Table 1.--Environmental Excise Taxes After Credits and Refunds, by Type of Substance, 1993--Continued

!			Number	Tax rate	Tax		T	ax after credit			
	Number	Number of	of barrels,	per	before		1993 quarter ended-				
Type of substance	of	quarterly	tons, or	barrel, ton,	credits						Yearly
	filers 1	returns	pounds	or pound	and	Yearly	March	June	September	December	average
		filed	(thousands)	(dollars)	refunds	total					per filer
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
ODC's contained in or used to manufacture									}		1
taxable imported products, total	533	1,420	49,145	N/A	81,159	80,119	18,143	27,837	15,955	18,187	150
CFC: 11-13; 111-112; 114; & 211-217 4	139	308	8,245	3.3500	n.a.	27,619	7,214	13,820	4,048	2,538	198
CFC-113	468	1,209	14,724	2.6800	n.a.	39,460	10,434	10,097	10,212	8,733	84
CFC-115	16	32	831	2.0100	n.a.	1,670	104	1,492	41	34	104
Halon-1211	**	4	121	0.2502	n.a.	30		30			- 1
Halon-1301	**		7	0.2512	n.a.	2					2
Halon-2402				0.2492	n.a.						
Carbon tetrachloride	9	13		3.6850	n.a.		]				-
Methyl chloroform	32	57	582	0.2111	n.a.	123		36	39	47	3
ODC used in rigid foam insulation	8	17	590	0.2499	n.a.	148	35	69	11	32	18
ODC used to sterilize medical instruments											!
ODC's used as propellant in metered-dose								•	i i		
inhaler		3	212	1.6700	n.a.	355		10	162	183	
Other.5	128	169	23,833	N/A	n.a.	11,713	355	2,292	1,443	6,620	91
Floor stock of ODC, total	1,032	1,066	43,010	N/A	47,778	47,771	12,467	34,605	89	589	46
CFC-11	277	284	3,376	1.6800	n.a.	5,672	2,095	24,059			20
CFC-12	655	669	20,088	1.6800	n.a.	33,748	9,220	3,531	50	417	51
CFC-113	364	374	3,260	1.3440	n.a.	4,382	747	1,405	24	68	12
CFC-114	62	62	928	1.6800	n.a.	1,559	154	114	24	-2	25
CFC-115	85	86	156	1.0080	n.a.	157	15	788	-2	29	1
Carbon tetrachloride	45	45	363	2.1780	n.a.	790	2	897		-2	17
Methyl chloroform	356	367	14,289	0.0740	n.a.	1,059	136	195		16	2
CFC-13	86	86	117	1.9800	n.a.	233	35	-2	8	2	2
CFC-111	4	4	13	1.9800	n.a.	26	25	-2			6
CFC-112	4	4	7	1.9800	n.a.	13	13				3
CFC-113				1.9800	n.a.	l					
CFC-114				1.9800	n.a.						-
CFC-115				1.9800	n.a.						
CFC-116				1.9800	n.a.						
CFC-117				1.9800	n.a.						
Other	39	39	412	N/A	n.a.	133	24	94	3	2	3

<sup>\*</sup> Oil Spill Liability Tax suspended effective July 1, 1993 - June 30, 1994.

<sup>\*\*</sup> Not shown to avoid disclosure of information about specific businesses. However, the data are included in the appropriate totals.

N/A-Not applicable; n.a.-Not available.

Number of filers does not add to totals because some businesses report a tax on more than one substance.

<sup>&</sup>lt;sup>2</sup> Less than \$500; or less than 500 barrels, tons or pounds.

<sup>3</sup> No single tax rate was used. Instead, taxpayers had several methods of reporting tax on imported chemical substances: (1) conversion factor -- calculated by determining the number of tons of each taxable chemical used in the manufacture of 1 ton of the substance, (2) percentage of metal -- calculated by determining the percentage of metal contained in the chemical substance; or (3) percentage of the entry value of the chemical substance. However, these reporting methods do not apply to those chemicals added through petition, allowed under Notice 89-61, 1989-1 CB 717.

<sup>4</sup>ODC's are grouped together, based on ODC tax rate, because taxpayers report tax on imported products, rather than individual ODC's.

sin cases where reported tax rates do not correspond with any (IRS) established rates, and imported product descriptions are unrecognizable, amounts are categorized as 'Other'.

Floor stock tax is due by June 30th, the end of the second quarter.

NOTE: Detail may not add to totals because of rounding.