UNITED STATES DEPARTMENT OF COMMERCE WASHINGTON, D.C. 20230

BUREAU OF ECONOMIC ANALYSIS

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REAL POLLUTION ABATEMENT AND CONTROL SPENDING INCREASED AGAIN IN 1985

Real spending for pollution abatement and control increased
4.0 percent to \$67.3 billion (1982 dollars) in 1985, according to the
Commerce Department's Bureau of Economic Analysis. Real spending increased
7.8 percent in 1984 and 4.0 percent in 1983, following a 3-year decline.

Pollution abatement and control spending consists of spending by business, government, and persons to abate air and water pollution and to dispose of solid waste. Most of the spending is for the direct reduction of pollution; the remainder is for regulation and monitoring and for research and development.

Business pollution abatement spending increased 3.4 percent to \$40.8 billion. Most of the increase was due to an increase in spending to operate pollution abatement facilities and to purchase motor vehicle emission abatement devices on fleet cars and trucks; spending for plant and equipment for pollution abatement increased slightly. Government pollution abatement spending increased 5.3 percent to \$11.9 billion; construction of public sewer systems accounted for one-half of the increase. Pollution abatement spending by persons, which is for the purchase and operation of motor vehicle emission abatement devices, increased 7.3 percent to \$11.4 billion.

Regulation and monitoring spending declined 7.9 percent; federal spending declined substantially, and state and local government spending increased moderately. Research and development declined 1.1 percent; spending at all levels of government declined, and private spending increased slightly.

The following table summarizes real spending for pollution abatement and control in 1985 and changes from 1984 to 1985.

	1985 spending level	Change from preceding year			
	(Billions of 1982 dollars)	of 1982	(Percent)		
Pollution abatement and control Pollution abatement	67.3 64.0	2.58	4.0		
Personal consumption	11.4	.77	7.3		
Motor vehicle emission abatement devices Operation of motor vehicle emission		.62	8.9		
abatement devices	3.8	.15	4.1		
Business	40.8	1.33	3.4		
Capital	14.9	.37	2.5		
Motor vehicle emission abatement					
devices	4.6	.29	6.8		
Plant and equipment	7.9	.03	.3		
Other	2.4	.05	2.3		
Current account	25.9	.96	3.9		
Operation of motor vehicle emission					
abatement devices	2.7	.09	3.3		
Operation of plant and equipment	16.3	.17	1.1		
Operation of public sewer systems	5.9	.30	5.3		
Costs recovered ¹	-1.2	.32	21.0		
Other	2.2	.09	4.5		
Government	11.9	.60	5.3		
Public sewer system construction	6.7	.32	5.1		
Other	5.2	.27	5.6		
Regulation and monitoring	1.1	10	-7.9		
Research and development	2.1	02	-1.1		

^{1.} Costs recovered is the value of reclaimed materials from pollution abatement. Spending on current account is reported net of costs recovered.

By type of real spending, air pollution abatement spending increased 3.3 percent to \$31.3 billion; water pollution abatement spending increased 4.8 percent to \$25.1 billion; and solid waste disposal spending increased 3.1 percent to \$11.3 billion.

Prices of goods and services for pollution abatement and control increased 3.1 percent in 1985, slightly less than the increase in the GNP fixed-weighted price index.

Over the period for which data are available, 1972-85, real pollution abatement and control spending increased at an average annual rate of 3.5 percent. Spending increased 5.7 percent in 1972-79, declined 3.1 percent in 1979-82, and increased 5.3 percent in 1982-85. The overall increase in pollution abatement and control spending from 1972-85 was mainly due to increases in spending for purchases of motor vehicle emission abatement devices and in spending to operate all types of pollution abatement capital. The decline in 1979-82 was mainly due to declines in construction of public sewer systems and in purchases of industrial capital. The following table compares the distribution of major components of pollution abatement and control spending in 1972 and 1985.

	1972	1985				
	(Percent of total)					
Pollution abatement and control	100.0	100.0				
Pollution abatement	93.6	95.2				
Motor vehicles	11.3	27.8				
Devices	2.9	18.0				
Operation of devices	8.4	9.8				
Industrial facilities	43.2	36.1				
Capital	20.8	11.8				
Operation of capital	22.4	24.3				
Public sewer systems	22.7	18.8				
Construction	15.9	10.0				
Operation of systems	6.8	8.8				
Other abatement	16.4	12.5				
Regulation and monitoring	1.8	1.7				
Research and development	4.5	3.2				
research and development	4.5	3.2				

Additional discussion will appear in the May issue of the <u>Survey of Current Business</u>, the monthly journal of the Bureau of Economic <u>Analysis</u>. The <u>Survey of Current Business</u> is available from the Superintendent of Documents, U.S. <u>Government Printing Office</u>, Washington, D.C. 20402. First class mail (domestic only): annual subscription \$50.00. Second class mail: annual subscription \$25.00 domestic, \$31.25 foreign; single issue \$5.00 domestic, \$6.25 foreign.

Table 1.--Expenditures for Pollution Abatement and Control in Current and Constant Dollars and Selected Fixed-Weighted Price Indexes

	1983r					1984r				1985P					
	Total1	Air	Water	Solid waste	Other and unallocated ²	Total1	Air	Water	Solid waste	Other and unallocated ²	Total1	Air	Water	Solid waste	Other and unallocated2
					Millions of	current d	ollars								
ollution abatement and control Pollution abatement3 Personal consumption Durable goods Nondurable goods and services Business On capital account On current account Private. Government enterprise Costs recovered Government Federal State and local Government enterprise fixed vapital Regulation and monitoring Federal State and local Research and development Private. Federal State and local Sessearch and development Private Federal State and local Research and development	61,779 58,060 9,771 6,214 3,557 37,589 13,278 24,311 19,907 5,805 -1,402 10,700 7,500 3,547 6,388 1,388 1,388 1,389 659 2,335 1,659 640 35	28,419 26,639 9,771 6,214 3,557 16,306 7,468 8,838 8,696 143 	23,214 22,421 25,7525 5,005 10,747 5,084 5,663 290 5,936 473 241 232 320 167 143 10	10,469 10,212 6,932 8055 6,127 (*) 3,279 3,161 158 72 855 100 288 66 6	-323 -1,212 -1,402 -1,4	68,908 65,210 10,814 7,323 3,492 42,126 15,492 26,635 21,969 6,229 -1,562 12,269 3,884 3,882 7,443 1,362 619 2,337 743 619 3,337 1,714	31,418 29,539 10,814 7,323 3,492 18,180 8,809 9,371 9,224 1147 	25,955 25,173 25,173 11,668 5,565 6,082 7,852 492 333 7,027 475 219 256 307 172 120 14	12,119 11,840 11,840 1,030 7,158 7,158 7,158 7,158 7,652 3,455 180 76 104 99 29 29 65 5	-584 -1,342 -1,562 -1,562 -1,562 -20 140 80 -355 346 9 403 154 240 9	73,824 70,140 11,886 8,230 3,655 44,640 16,264 28,376 22,938 6,657 -1,219 13,613 13,114 4,305 6,79 2,370 1,801 5,500 1,801 5,500 1,801 5,500 1,801 5,500 5,5	33,177 31,191 11,886 8,230 3,656 18,857 9,128 9,730 9,579 151 	28,121 27,304 18,396 5,896 12,500 6,505 8,908 639 403 7,866 524 240 284 293 181 100	12,985 12,653 8,606 1,241 7,365 7,365 7,365 7,365 3,818 229 90 139 103 31 70 2	-1,218 -1,218 -1,219 -1,219 210 135 75 -206 200 6 344 162
					Millions of con	s tant (198	dollar	s							
ollution abatement and control Pollution abatement3 Personal consumption Durable goods Nondurable goods and services Business On capital account On current account Private Government enterprise Costs recovered Government Federal State and local Regulation and monitoring. Federal State and local Research and development Private State and local Research and development Private Federal State and local State and local	60,007 56,453 9,731 6,060 3,671 36,533 12,898 23,635 19,389 5,632 -1,386 10,188 771 3,375 6,043 1,315 771 545 2,239 1,591 615 34	28,070 26,367 9,731 6,060 3,671 16,081 7,334 8,747 8,609 137 555 135 446 310 84 426 1,393 1,260 127 5	22,297 21,543 15,228 4,793 10,435 4,941 6,315 5,494 6,315 5,626 448 205 5,626 438 218 307 160 137 9	9,985 9,740 6,611 5,840 (*) 3,129 3,129 69 80 96 63 63 6	-345 -1,196 -1,386 -1,386 -1,386 -1,386 96 94 -408 387 221 443 143 287 13	64,700 61,313 10,610 6,939 3,672 39,441 14,522 24,919 20,630 5,805 -1,516 11,261 11,261 11,261 12,157 1,515 2,157 1,515 2,157	30,304 28,577 10,610 6,939 3,672 17,446 8,403 9,044 8,908 135 520 111 133 396 316 933 224 1,411 1,255 152	23,987 23,277 16,069 5,171 10,898 5,229 5,669 7,208 457 6,474 428 201 227 283 2159 1111	11,013 10,760 7,441 948 6,493 6,493 (*) 3,318 182 3,136 162 70 92 91 27 60 5	-604 -1,301 -1,516 -1,516 -1,516 -1,516 -215 134 81 -325 317 8 372 143 221 8	67,279 64,012 11,380 7,557 3,823 40,773 14,892 25,881 20,975 6,103 -1,198 11,859 989 3,682 7,188 1,134 1,24 2,134 1,62 4,03 1,14 1,62 1,64 1,62 1,64 1,64 1,64 1,64 1,64 1,64 1,64 1,64	31,298 29,522 11,380 7,557 3,823 17,722 8,509 9,213 9,07 135 420 93 310 306 93 214 1,470 1,287 179 3	25,144 24,431 16,707 5,259 11,447 5,479 5,968 7,724 56,879 451 212 239 263 263 163 90 10	11,349 11,061 7,542 1,124 6,418 (*) 3,519 23 3,316 79 116 922 28 63 2	-512 -1,0021,1971,1971,198 124 71 181 176 5 309 146 161 2
					Selected fixed-	veighted pr	ice inde	xes					- 49		
ollution abatement and control Pollution abatement3 Personal consumption Business On capital account On current account Government Regulation and monitoring Research and development	103.0 102.9 100.3 102.9 102.8 102.9 105.1 105.3 104.3	101.2 101.0 100.3 101.4 101.7 101.1 101.4 105.6 104.3	104.2 104.2 103.4 104.3 103.0 105.7 105.5 104.3	104.9 104.9 104.4 104.9 104.9 105.0 104.3	102.1 101.0 101.1 101.1 100.2 104.9 104.3	106.5 106.3 101.3 106.7 106.4 106.9 109.0 110.4 108.4	103.5 103.2 101.3 104.1 104.6 103.6 104.9 111.1 108.3	108.2 108.2 107.8 109.0 107.2 109.0 110.7 108.5	110.0 110.1 110.0 108.6 110.2 110.2 109.9 108.5	105.0 103.1 103.1 103.1 109.8 108.5	109.8 109.6 103.6 109.5 108.8 109.9 114.7 115.4 111.2	105.7 105.3 103.6 106.2 106.6 105.7 106.2 116.1 111.0	112.0 111.9 110.2 111.9 109.3 115.5 115.8 111.5	114.5 114.5 114.2 110.4 114.8 115.1 114.7 111.7	105.8 102.6 101.8 101.8 108.5 114.7 111.5
		Addendum	: Busin	ess capi	tal consumption	allowance	(million	s of dol	lars)4						
alue at replacement cost in current dollars alue at replacement cost in constant (1982) dollars	11,590 11,307					12,470 11,829					13,480 12,460				

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* Less than \$500,000.

1. Includes expenditures for air and water pollution abatement and control. Includes expenditures for solid waste collection and disposal by means acceptable to federal, state, and local authorities. Excludes agricultural production except feedlot operations.

2. "Other" includes expenditures for abatement and control of noise, radiation, and pesticide pollution; "unallocated" includes business expenditures not assigned to media.

3. Expenditures are attributed to the sector that performs the air or water pollution abatement or solid waste collection and disposal.

4. To facilitate conversion of expenditures to a cost basis.