

7. RESEARCH AND DEVELOPMENT EXPENDITURES

The Administration is proposing \$71 billion in research and development (R&D) investments in 1997. Civilian R&D will increase over \$1 billion or three percent to \$34 billion. Civilian R&D will increase nearly 16 percent since 1993. In 1997, university-based re-

search will increase to roughly \$12 billion, a \$257 million increase over 1996. Chapter 10 of the *Budget of the United States Government—Supplement* includes a discussion of science and technology that contains more information on R&D activities.

Table 7-1. RESEARCH AND DEVELOPMENT (R&D) EXPENDITURES

(Outlays, dollar amounts in millions)

	Actual		1996 Estimate	1997 Proposed	Dollar Change 1996 to 1997	Percent Change 1996 to 1997
	1993	1995				
By agency:						
Defense	38,035	35,613	35,269	34,922	-347	-1%
Health and Human Services	9,660	11,111	11,145	12,132	987	+9%
National Aeronautics and Space Administration	8,885	9,399	9,643	9,218	-425	-4%
Energy	6,945	6,943	7,128	6,943	-185	-3%
National Science Foundation	1,842	1,999	2,309	2,501	192	+8%
Agriculture	1,455	1,498	1,532	1,510	-22	-1%
Commerce	607	740	823	926	103	+13%
Interior	636	658	653	605	-48	-7%
Environmental Protection Agency	519	495	425	523	98	+23%
Other	1,736	1,947	1,722	2,020	298	+7%
Total	70,320	70,403	70,649	71,300	654	+1%
By R&D theme:						
Basic research	12,625	13,298	13,579	13,980	401	+3%
Applied research	12,437	13,680	13,978	14,532	554	+4%
Development	42,625	41,461	40,830	40,435	-395	-1%
Equipment		475	781	758	-23	-3%
Facilities	2,633	1,489	1,481	1,595	114	+8%
Total	70,320	70,403	70,649	71,300	651	+1%
By civilian theme:						
Basic research	11,370	12,172	12,405	12,754	349	+3%
Applied research	8,511	9,890	10,170	10,597	427	+4%
Development	7,374	8,564	8,165	8,403	238	+3%
Equipment		317	634	608	-26	-4%
Facilities	1,749	1,233	1,218	1,264	46	+4%
Subtotal	29,004	32,176	32,592	33,626	1,634	+3%
By defense theme:						
Basic research	1,255	1,126	1,174	1,226	52	+4%
Applied research	3,926	3,790	3,808	3,935	127	+3%
Development	35,250	32,897	32,665	32,032	-633	-2%
Equipment		158	147	150	3	+2%
Facilities	885	256	263	331	68	+26%
Subtotal	41,316	38,227	38,057	37,674	-383	-1%
R&D support to university researchers	11,674	11,373	12,130	12,387	257	+2%