

**Table 372.—Summary of federal funds for research, development, and R&D plant:  
Fiscal years 1993 to 2001**  
[In millions of current dollars]

Item	Actual							Estimate		
	1993	1994	1995	1996	1997	1998	1999	2000	2001	Percent change, 2000 to 2001
1	2	3	4	5	6	7	8	9	10	11
<b>Total outlays for research, development, and R &amp; D plant</b>	<b>\$68,385.8</b>	<b>\$68,335.9</b>	<b>\$68,410.0</b>	<b>\$67,756.1</b>	<b>\$70,892.0</b>	<b>\$72,295.6</b>	<b>\$72,613.9</b>	<b>\$75,864.5</b>	<b>\$79,400.0</b>	<b>4.7</b>
Research and development	65,241.3	66,158.8	66,374.6	65,909.9	68,897.2	70,434.5	70,585.2	73,774.2	77,254.7	4.7
R & D plant	3,144.5	2,177.1	2,035.4	1,846.2	1,994.8	1,861.1	2,028.7	2,090.3	2,145.3	2.6
<b>Total obligations for research, development, and R &amp; D plant</b>	<b>70,414.7</b>	<b>69,427.0</b>	<b>71,011.8</b>	<b>69,408.7</b>	<b>71,744.7</b>	<b>73,743.5</b>	<b>77,386.6</b>	<b>81,772.8</b>	<b>83,609.3</b>	<b>2.2</b>
Research and development obligations	67,314.0	67,255.8	68,754.9	67,662.6	69,829.9	71,903.3	75,340.8	79,470.4	81,526.1	2.6
Performers										
Federal intramural <sup>1</sup>	16,556.2	16,139.1	17,342.7	16,596.4	16,720.0	17,114.0	18,084.7	19,072.8	19,352.4	1.5
Industrial firms	30,326.1	30,454.4	30,468.7	30,361.4	31,418.0	31,839.7	31,901.6	32,815.2	33,026.4	0.6
FFRDCs <sup>2</sup> administered by industrial firms	1,451.3	1,293.5	1,203.9	1,137.0	1,128.2	1,188.8	1,328.1	1,335.5	1,385.6	3.7
Universities and colleges	11,156.1	11,828.7	11,933.0	11,944.7	12,561.1	13,365.9	14,959.1	16,612.2	17,723.7	6.7
FFRDCs <sup>2</sup> administered by universities and colleges	3,666.5	3,292.9	3,574.3	3,447.7	3,701.1	3,890.2	3,896.5	3,992.6	4,189.1	4.9
Other nonprofit institutions	2,811.9	2,929.6	2,806.5	2,886.9	2,962.1	3,155.1	3,608.8	4,047.1	4,175.6	3.2
FFRDCs <sup>2</sup> administered by nonprofit institutions	753.4	735.5	831.4	754.5	821.0	603.0	913.3	898.1	978.0	8.9
State and local governments	320.3	325.4	316.5	246.7	261.1	447.5	357.5	389.6	410.7	5.4
Foreign	272.2	256.6	277.8	287.4	257.5	299.1	291.3	307.5	284.8	-7.3
Research obligations	26,890.5	27,440.4	28,573.4	28,265.1	29,365.6	30,922.3	33,527.5	36,329.5	38,688.1	6.5
Performers										
Federal intramural <sup>1</sup>	7,360.1	7,488.2	7,787.8	7,528.2	7,667.2	7,964.7	8,685.8	9,203.5	9,792.8	6.4
Industrial firms	4,018.9	4,063.5	4,727.9	4,291.3	4,392.1	4,635.1	4,579.8	4,888.1	5,118.0	4.7
FFRDCs <sup>2</sup> administered by industrial firms	795.8	737.2	818.0	696.2	759.6	844.1	879.3	850.1	911.3	7.2
Universities and colleges	9,844.1	10,323.5	10,371.6	10,673.7	11,173.2	11,741.0	13,203.8	14,699.1	15,696.1	6.8
FFRDCs <sup>2</sup> administered by universities and colleges	2,347.6	2,181.1	2,235.6	2,386.0	2,598.9	2,743.0	2,554.1	2,673.6	2,948.4	10.3
Other nonprofit institutions	2,041.3	2,094.9	2,056.1	2,179.5	2,294.9	2,425.2	2,806.7	3,178.3	3,340.6	5.1
FFRDCs <sup>2</sup> administered by nonprofit institutions	173.4	178.0	210.1	195.8	217.5	214.5	469.5	450.6	470.4	4.4
State and local governments	211.8	230.8	221.4	187.4	144.0	240.1	232.4	267.9	287.8	7.4
Foreign	97.4	143.3	144.8	126.8	118.1	114.5	116.1	118.3	122.7	3.8
Fields of science										
Life sciences	10,772.1	11,078.8	11,979.0	12,099.7	12,661.3	13,557.6	15,422.5	17,422.5	18,249.2	4.7
Psychology	550.7	550.2	653.6	513.0	545.4	591.0	632.6	719.9	751.8	4.4
Physical sciences	4,427.0	6,792.7	4,851.2	3,964.4	4,148.7	4,209.7	4,066.2	4,183.1	4,430.2	5.9
Environmental sciences	2,608.5	2,032.0	2,722.9	2,997.0	3,045.7	3,062.0	3,095.3	3,102.4	3,243.2	4.5
Mathematics and computer sciences	1,225.4	1,242.3	1,667.9	1,554.1	1,671.8	1,836.8	1,980.6	2,178.5	2,517.3	15.6
Engineering	5,499.4	4,023.3	4,952.7	5,679.6	5,690.3	5,895.4	6,263.4	6,548.3	7,088.7	8.3
Social sciences	674.9	655.0	682.9	674.2	696.3	806.1	854.9	901.8	995.9	10.4
Other sciences	1,132.5	1,066.1	1,063.2	783.0	906.1	963.7	1,212.1	1,273.0	1,411.8	10.9
Basic research obligations	13,399.1	13,552.9	13,895.5	14,462.4	14,942.2	15,613.0	17,443.7	18,981.7	20,274.4	6.8
Performers										
Federal intramural <sup>1</sup>	2,605.1	2,505.0	2,712.9	2,689.2	2,688.6	2,917.8	3,255.2	3,482.5	3,650.5	4.8
Industrial firms	959.2	1,109.1	1,221.2	1,131.0	1,166.7	1,119.7	1,082.8	1,192.0	1,192.8	0.1
FFRDCs <sup>2</sup> administered by industrial firms	237.3	237.6	239.1	272.8	294.7	326.4	313.4	308.2	325.1	5.5
Universities and colleges	6,798.5	7,024.2	6,951.3	7,406.1	7,695.8	7,952.2	9,107.1	10,043.7	10,906.4	8.6
FFRDCs <sup>2</sup> administered by universities and colleges	1,437.8	1,336.0	1,438.3	1,522.0	1,600.0	1,642.3	1,565.5	1,621.1	1,747.2	7.8
Other nonprofit institutions	1,164.9	1,125.7	1,134.2	1,235.2	1,289.6	1,397.6	1,650.0	1,871.2	1,980.3	5.8
FFRDCs <sup>2</sup> administered by nonprofit institutions	71.3	73.9	75.2	76.5	88.4	121.8	354.9	338.1	340.2	0.6
State and local governments	71.7	75.2	78.7	80.2	68.4	84.9	61.4	66.8	68.7	2.9
Foreign	53.3	66.1	44.5	49.5	49.9	50.4	53.4	58.1	63.3	8.9
Fields of science										
Life sciences	6,288.8	6,429.8	6,746.7	6,911.0	7,203.8	7,853.4	9,197.1	10,374.4	10,964.6	5.7
Psychology	246.8	247.4	279.8	281.5	293.9	312.0	347.3	408.7	425.6	4.1
Physical sciences	2,907.1	3,649.2	2,709.3	2,901.7	2,976.4	2,941.4	3,089.8	3,217.6	3,401.0	5.7
Environmental sciences	1,533.5	997.2	1,410.7	1,531.2	1,543.5	1,528.7	1,615.7	1,630.6	1,722.3	5.6
Mathematics and computer sciences	511.3	503.6	626.1	622.0	661.4	705.5	734.9	760.8	920.1	20.9
Engineering	1,207.4	1,061.7	1,432.2	1,606.6	1,583.0	1,594.4	1,639.7	1,716.9	1,870.3	8.9
Social sciences	194.1	191.7	210.8	230.0	221.0	224.8	246.5	273.4	299.8	9.7
Other sciences	510.1	472.4	479.9	378.3	459.3	452.7	572.5	599.3	670.6	11.9
Applied research obligations	13,491.4	13,887.5	14,677.9	13,802.7	14,423.4	15,309.3	16,083.7	17,347.9	18,413.7	6.1
Performers										
Federal intramural <sup>1</sup>	4,755.0	4,983.2	5,074.9	4,839.0	4,978.7	5,046.9	5,430.6	5,721.0	6,142.3	7.4
Industrial firms	3,059.7	2,954.4	3,506.7	3,160.3	3,225.5	3,515.4	3,497.0	3,696.1	3,925.1	6.2
FFRDCs <sup>2</sup> administered by industrial firms	558.6	499.6	578.9	423.4	464.9	517.7	565.8	541.9	586.2	8.2
Universities and colleges	3,045.5	3,299.3	3,420.3	3,267.6	3,477.4	3,788.9	4,096.7	4,655.3	4,789.8	2.9
FFRDCs <sup>2</sup> administered by universities and colleges	909.8	845.1	797.3	864.0	998.8	1,100.7	988.6	1,052.5	1,201.2	14.1
Other nonprofit institutions	876.4	969.2	921.9	944.3	1,005.3	1,027.7	1,156.7	1,307.1	1,360.4	4.1
FFRDCs <sup>2</sup> administered by nonprofit institutions	102.2	104.0	134.9	119.4	129.2	92.6	114.6	112.6	130.1	15.6
State and local governments	140.1	155.5	142.7	107.3	75.5	155.2	171.0	201.2	219.2	8.9
Foreign	44.1	77.2	100.3	77.4	68.2	64.1	62.8	60.2	59.4	-1.3
Fields of science										
Life sciences	4,483.3	4,649.0	5,232.3	5,188.7	5,457.6	5,704.1	6,225.3	7,048.1	7,284.6	3.4
Psychology	303.9	302.9	373.9	231.5	251.5	279.0	285.3	311.2	326.2	4.8
Physical sciences	1,519.8	3,143.5	2,141.9	1,062.7	1,172.4	1,268.3	976.4	965.5	1,029.1	6.6
Environmental sciences	1,075.0	1,034.8	1,312.3	1,465.8	1,502.2	1,533.2	1,479.5	1,471.8	1,521.0	3.3
Mathematics and computer sciences	714.1	738.7	1,041.7	932.1	1,010.5	1,131.4	1,245.7	1,417.7	1,597.2	12.7
Engineering	4,292.0	2,961.6	3,520.5	4,073.0	4,107.3	4,301.0	4,623.7	4,831.4	5,218.3	8.0

**Table 372.—Summary of federal funds for research, development, and R&D plant:  
Fiscal years 1993 to 2001—Continued**  
[In millions of current dollars]

Item	Actual							Estimate		
	1993	1994	1995	1996	1997	1998	1999	2000	2001	Percent change, 2000 to 2001
1	2	3	4	5	6	7	8	9	10	11
Social sciences .....	480.8	463.3	472.0	444.2	475.3	581.3	608.3	628.4	696.0	10.8
Other sciences .....	622.4	593.8	583.3	404.7	446.8	510.9	639.6	673.7	741.2	10.0
Development obligations .....	40,423.5	39,815.4	40,181.4	39,397.5	40,464.3	40,981.0	41,813.1	43,140.7	42,838.1	-0.7
Performers										
Federal intramural <sup>1</sup> .....	9,196.2	8,650.9	9,554.9	9,068.1	9,052.7	9,149.3	9,398.9	9,869.3	9,559.6	-3.1
Industrial firms .....	26,307.2	26,390.9	25,740.7	26,070.1	27,025.8	27,204.6	27,321.8	27,927.0	27,908.3	-0.1
FFRDCs <sup>2</sup> administered by industrial firms .....	655.5	556.3	385.9	440.7	368.6	344.7	448.8	485.4	474.3	-2.3
Universities and colleges .....	1,312.0	1,505.2	1,561.4	1,271.0	1,387.9	1,624.8	1,755.3	1,913.0	2,027.5	6.0
FFRDCs <sup>2</sup> administered by universities and colleges .....	1,318.9	1,111.8	1,338.7	1,061.6	1,102.1	1,147.2	1,342.3	1,319.0	1,240.7	-5.9
Other nonprofit institutions .....	770.6	834.8	750.4	707.4	667.2	729.9	802.0	868.8	835.0	-3.9
FFRDCs <sup>2</sup> administered by nonprofit institutions .....	580.0	557.6	621.3	558.7	603.4	388.5	443.7	447.6	507.7	13.4
State and local governments .....	108.5	94.7	95.1	59.3	117.1	207.4	125.1	121.6	122.8	1.0
Foreign .....	174.8	113.3	133.0	160.5	139.3	184.6	175.2	189.2	162.1	-14.3
R & D plant obligations .....	3,100.7	2,171.2	2,256.9	1,746.1	1,914.8	1,840.2	2,045.8	2,302.3	2,083.1	-9.5
Performers										
Federal intramural <sup>1</sup> .....	432.0	392.6	482.6	405.1	608.3	475.3	483.3	787.8	441.9	-43.9
Industrial firms .....	1,048.2	746.8	696.6	465.4	389.8	487.7	544.7	526.7	561.7	6.6
FFRDCs <sup>2</sup> administered by industrial firms .....	124.4	119.4	95.1	43.9	60.5	45.6	172.8	154.5	321.6	108.2
Universities and colleges .....	361.4	209.0	323.8	243.1	238.6	139.5	141.2	192.8	194.4	0.8
FFRDCs <sup>2</sup> administered by universities and colleges .....	619.5	608.8	543.9	497.8	548.8	663.6	615.5	552.8	469.5	-15.1
Other nonprofit institutions .....	415.6	20.9	25.6	23.4	16.7	10.9	12.2	24.6	14.3	-41.9
FFRDCs <sup>2</sup> administered by nonprofit institutions .....	65.5	72.9	62.6	66.1	52.0	12.1	70.7	61.9	79.8	28.9
State and local governments .....	0.5	0.8	0.5	1.0	—	—	5.3	1.3	—	—
Foreign .....	33.4	0.2	26.1	0.5	0.1	5.5	—	—	—	—

—Not available.

<sup>1</sup> Includes costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

<sup>2</sup> Federally funded research and development centers.

NOTE: Some data have been revised from previously published figures. Detail may not sum to totals due to rounding.

SOURCE: National Science Foundation, *Federal Funds for Research and Development*, various years. (This table was prepared February 2001.)