

**Table 373.—Summary of federal funds for research, development, and R&D plant:
Fiscal years 1994 to 2002**
[In millions of current dollars]

Item	Actual							Estimate		
	1994	1995	1996	1997	1998	1999	2000	2001	2002	Percent change, 2001 to 2002
1	2	3	4	5	6	7	8	9	10	11
Total outlays for research, development, and R & D plant	\$68,335.9	\$68,410.0	\$67,756.1	\$70,892.0	\$72,295.6	\$72,613.9	\$74,077.0	\$80,159.4	\$82,814.4	3.3
Research and development	66,158.8	66,374.6	65,909.9	68,897.2	70,434.5	70,585.2	69,807.3	75,676.5	78,334.9	3.5
R & D plant	2,177.1	2,035.4	1,846.2	1,994.8	1,861.1	2,028.7	4,269.7	4,482.9	4,479.5	-0.1
Total obligations for research, development, and R & D plant	69,427.0	71,011.8	69,408.7	71,744.7	73,743.5	77,386.6	77,356.1	85,452.2	84,938.4	-0.6
Research and development obligations	67,255.8	68,754.9	67,662.6	69,829.9	71,903.3	75,340.8	72,863.2	80,898.1	80,645.5	-0.3
Performers										
Federal intramural ¹	16,139.1	17,342.7	16,596.4	16,720.0	17,114.0	18,084.7	17,149.8	18,719.5	18,285.2	-2.3
Industrial firms	30,454.4	30,468.7	30,361.4	31,418.0	31,839.7	31,901.6	27,735.5	30,323.3	29,815.0	-1.7
FFRDCs ² administered by industrial firms	1,293.5	1,203.9	1,137.0	1,128.2	1,188.8	1,328.1	1,100.9	1,446.2	1,397.4	-3.4
Universities and colleges	11,828.7	11,933.0	11,944.7	12,561.1	13,365.9	14,959.1	16,815.1	19,614.9	20,198.9	3.0
FFRDCs ² administered by universities and colleges	3,292.9	3,574.3	3,447.7	3,701.1	3,890.2	3,896.5	4,053.2	4,367.8	4,213.8	-3.5
Other nonprofit institutions	2,929.6	2,806.5	2,886.9	2,962.1	3,155.1	3,608.8	4,216.6	4,818.3	5,090.9	5.7
FFRDCs ² administered by nonprofit institutions	735.5	831.4	754.5	821.0	603.0	913.3	1,231.5	1,117.2	1,118.9	0.2
State and local governments	325.4	316.5	246.7	261.1	447.5	357.5	224.0	256.6	269.3	4.9
Foreign	256.6	277.8	287.4	257.5	299.1	291.3	336.7	234.3	256.1	9.3
Research obligations	27,440.4	28,573.4	28,265.1	29,365.6	30,922.3	33,527.5	38,470.5	43,836.0	45,326.9	3.4
Performers										
Federal intramural ¹	7,488.2	7,787.8	7,528.2	7,667.2	7,964.7	8,685.8	9,449.6	10,433.2	10,701.1	2.6
Industrial firms	4,063.5	4,727.9	4,291.3	4,392.1	4,635.1	4,579.8	4,801.2	5,454.5	5,706.9	4.6
FFRDCs ² administered by industrial firms	737.2	818.0	696.2	759.6	844.1	879.3	700.3	887.5	889.3	0.2
Universities and colleges	10,323.5	10,371.6	10,673.7	11,173.2	11,741.0	13,203.8	16,015.9	18,773.4	19,495.4	3.8
FFRDCs ² administered by universities and colleges	2,181.1	2,235.6	2,386.0	2,598.9	2,743.0	2,554.1	2,773.2	3,040.4	2,940.3	-3.3
Other nonprofit institutions	2,094.9	2,056.1	2,179.5	2,294.9	2,425.2	2,806.7	3,719.8	4,255.9	4,586.1	7.8
FFRDCs ² administered by nonprofit institutions	178.0	210.1	195.8	217.5	214.5	469.5	696.1	658.1	655.2	-0.4
State and local governments	230.8	221.4	187.4	144.0	240.1	232.4	162.5	184.1	203.3	10.4
Foreign	143.3	144.8	126.8	118.1	114.5	116.1	152.0	148.9	149.3	0.2
Fields of science										
Life sciences	11,078.8	11,979.0	12,099.0	12,661.3	13,557.6	15,422.5	17,964.7	21,118.1	22,204.3	5.1
Psychology	550.2	653.6	513.0	545.4	591.0	632.6	1,626.7	1,870.8	2,075.3	10.9
Physical sciences	6,792.7	4,851.2	3,964.4	4,148.7	4,209.7	4,066.2	4,787.9	5,162.9	5,144.8	-0.4
Environmental sciences	2,032.0	2,722.9	2,997.0	3,045.7	3,062.0	3,095.3	3,328.8	3,660.6	3,644.2	-0.4
Mathematics and computer sciences	1,242.3	1,667.9	1,554.1	1,671.8	1,836.8	1,980.6	2,205.6	2,458.3	2,617.9	6.5
Engineering	4,023.3	4,952.7	5,679.6	5,690.3	5,895.4	6,263.4	6,346.4	7,090.6	7,031.5	-0.8
Social sciences	655.0	682.9	674.2	696.3	806.1	854.9	1,050.3	1,216.2	1,271.0	4.5
Other sciences	1,066.1	1,063.2	783.0	906.1	963.7	1,212.1	1,160.2	1,258.6	1,338.0	6.3
Basic research obligations	13,552.9	13,895.5	14,462.4	14,942.2	15,613.0	17,443.7	19,569.8	22,704.5	23,399.3	3.1
Performers										
Federal intramural ¹	2,505.0	2,712.9	2,689.2	2,688.6	2,917.8	3,255.2	3,621.8	3,953.7	4,270.8	8.0
Industrial firms	1,109.1	1,221.2	1,131.0	1,166.7	1,119.7	1,082.8	1,356.5	1,862.3	1,828.2	-1.8
FFRDCs ² administered by industrial firms	237.6	239.1	272.8	294.7	326.4	313.4	171.3	229.9	243.9	6.1
Universities and colleges	7,024.2	6,951.3	7,406.1	7,695.8	7,952.2	9,107.1	10,056.7	11,894.7	12,178.2	2.4
FFRDCs ² administered by universities and colleges	1,336.0	1,438.3	1,522.0	1,600.0	1,642.3	1,565.5	1,674.0	1,822.9	1,687.5	-7.4
Other nonprofit institutions	1,125.7	1,134.2	1,235.2	1,289.6	1,397.6	1,650.0	1,985.3	2,263.8	2,507.4	10.8
FFRDCs ² administered by nonprofit institutions	73.9	75.2	76.5	88.4	121.8	354.9	521.6	491.9	497.6	1.1
State and local governments	75.2	78.7	80.2	68.4	84.9	61.4	75.7	87.3	94.8	8.5
Foreign	66.1	44.5	49.5	49.9	50.4	53.4	106.9	98.1	90.9	-7.3
Fields of science										
Life sciences	6,429.8	6,746.7	6,911.0	7,203.8	7,853.4	9,197.1	10,049.0	11,951.7	12,537.6	4.9
Psychology	247.4	279.8	281.5	293.9	312.0	347.3	817.8	944.0	1,044.9	10.7
Physical sciences	3,649.2	2,709.3	2,901.7	2,976.4	2,941.4	3,089.8	3,470.6	3,852.2	3,835.5	-0.4
Environmental sciences	997.2	1,410.7	1,531.2	1,543.5	1,528.7	1,615.7	1,838.4	2,058.4	2,055.6	-0.1
Mathematics and computer sciences	503.6	626.1	622.0	661.4	705.5	734.9	798.3	923.1	927.5	0.5
Engineering	1,061.7	1,432.2	1,606.6	1,583.0	1,594.4	1,639.7	1,764.2	2,071.8	2,024.8	-2.3
Social sciences	191.7	210.8	230.0	221.0	224.8	246.5	308.0	341.7	355.1	3.9
Other sciences	472.4	479.9	378.3	459.3	452.7	572.5	523.6	561.7	618.3	10.1
Applied research obligations	13,887.5	14,677.9	13,802.7	14,423.4	15,309.3	16,083.7	18,900.7	21,131.3	21,927.6	3.8
Performers										
Federal intramural ¹	4,983.2	5,074.9	4,839.0	4,978.7	5,046.9	5,430.6	5,827.8	6,479.4	6,430.3	-0.8
Industrial firms	2,954.4	3,506.7	3,160.3	3,225.5	3,515.4	3,497.0	3,444.6	3,592.2	3,878.8	8.0
FFRDCs ² administered by industrial firms	499.6	578.9	423.4	464.9	517.7	565.8	528.9	657.6	645.4	-1.9
Universities and colleges	3,299.3	3,420.3	3,267.6	3,477.4	3,788.9	4,096.7	5,959.2	6,878.7	7,317.2	6.4
FFRDCs ² administered by universities and colleges	845.1	797.3	864.0	998.8	1,100.7	988.6	1,099.2	1,217.5	1,252.8	2.9
Other nonprofit institutions	969.2	921.9	944.3	1,005.3	1,027.7	1,156.7	1,734.5	1,992.1	2,078.7	4.3
FFRDCs ² administered by nonprofit institutions	104.0	134.9	119.4	129.2	92.6	114.6	174.5	166.2	157.6	-5.2
State and local governments	155.5	142.7	107.3	75.5	155.2	171.0	86.9	96.8	108.5	12.1
Foreign	77.2	100.3	77.4	68.2	64.1	62.8	45.1	50.8	58.4	14.8
Fields of science										
Life sciences	4,649.0	5,232.3	5,188.7	5,457.6	5,704.1	6,225.3	7,915.7	9,166.4	9,666.7	5.5
Psychology	302.9	373.9	231.5	251.5	279.0	285.3	808.9	926.8	1,030.4	11.2
Physical sciences	3,143.5	2,141.9	1,062.7	1,172.4	1,268.3	976.4	1,317.3	1,310.7	1,309.3	-0.1
Environmental sciences	1,034.8	1,312.3	1,465.8	1,502.2	1,533.2	1,479.5	1,490.3	1,602.1	1,680.3	-0.8
Mathematics and computer sciences	738.7	1,041.7	932.1	1,010.5	1,131.4	1,245.7	1,407.3	1,535.1	1,599.6	10.1
Engineering	2,961.6	3,520.5	4,073.0	4,107.3	4,301.0	4,623.7	4,582.2	5,018.8	5,006.7	-0.2
Social sciences	463.3	472.0	444.2	475.3	581.3	608.3	742.3	874.4	916.0	4.7
Other sciences	593.8	583.3	404.7	446.8	510.9	639.6	636.6	696.8	719.6	3.3

**Table 373.—Summary of federal funds for research, development, and R&D plant:
Fiscal years 1994 to 2002—Continued**
[In millions of current dollars]

Item	Actual							Estimate		
	1994	1995	1996	1997	1998	1999	2000	2001	2002	Percent change, 2001 to 2002
1	2	3	4	5	6	7	8	9	10	11
Development obligations	39,815.4	40,181.4	39,397.5	40,464.3	40,981.0	41,813.1	34,392.7	37,062.1	35,318.5	-4.7
Performers										
Federal intramural ¹	8,650.9	9,554.9	9,068.1	9,052.7	9,149.3	9,398.9	7,700.2	8,286.4	7,584.2	-8.5
Industrial firms	26,390.9	25,740.7	26,070.1	27,025.8	27,204.6	27,321.8	22,934.4	24,868.8	24,108.0	-3.1
FFRDCs ² administered by industrial firms	556.3	385.9	440.7	368.6	344.7	448.8	400.6	558.7	508.1	-9.1
Universities and colleges	1,505.2	1,561.4	1,271.0	1,387.9	1,624.8	1,755.3	799.3	841.5	703.4	-16.4
FFRDCs ² administered by universities and colleges	1,111.8	1,338.7	1,061.6	1,102.1	1,147.2	1,342.3	1,279.9	1,327.4	1,273.5	-4.1
Other nonprofit institutions	834.8	750.4	707.4	667.2	729.9	802.0	496.8	562.4	504.8	-10.2
FFRDCs ² administered by nonprofit institutions	557.6	621.3	558.7	603.4	388.5	443.7	535.4	459.1	463.8	1.0
State and local governments	94.7	95.1	59.3	117.1	207.4	125.1	61.5	72.4	66.0	-8.9
Foreign	113.3	133.0	160.5	139.3	184.6	175.2	184.7	85.4	106.8	25.1
R & D plant obligations	2,171.2	2,256.9	1,746.1	1,914.8	1,840.2	2,045.8	4,492.8	4,554.1	4,293.0	-5.7
Performers										
Federal intramural ¹	392.6	482.6	405.1	608.3	475.3	483.3	573.3	530.5	507.3	-4.4
Industrial firms	746.8	696.6	465.4	389.8	487.7	544.7	2,814.6	2,733.0	2,475.3	-9.4
FFRDCs ² administered by industrial firms	119.4	95.1	43.9	60.5	45.6	172.8	27.6	47.7	62.8	31.7
Universities and colleges	209.0	323.8	243.1	238.6	139.5	141.2	213.5	252.6	265.6	5.2
FFRDCs ² administered by universities and colleges	608.8	543.9	497.8	548.8	663.6	615.5	613.8	574.3	535.1	-6.8
Other nonprofit institutions	20.9	25.6	23.4	16.7	10.9	12.2	55.5	64.1	62.1	-3.1
FFRDCs ² administered by nonprofit institutions	72.9	62.6	66.1	52.0	12.1	70.7	193.5	351.7	384.1	9.2
State and local governments	0.8	0.5	1.0	—	—	5.3	0.9	0.2	0.5	131.5
Foreign	0.2	26.1	0.5	0.1	5.5	—	0.1	0.2	0.2	0.0

—Not available.

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

²Federally 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 March 2002.)