

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Industry	Extramural					
				Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Alabama	5,202,092.0	2,124,684.7	2,704,945.5	0.0	342,175.5	0.0	26,915.3	0.0	3,371.0
Department of Agriculture	27,581.2	9,605.4	0.0	0.0	17,883.9	0.0	0.0	0.0	91.9
Department of Commerce	837.5	0.0	113.8	0.0	549.7	0.0	136.0	0.0	38.0
Department of Defense, research	176,678.2	100,924.1	69,053.7	0.0	6,621.1	0.0	79.3	0.0	0.0
Department of Defense, total development ^b	4,213,105.4	1,914,264.0	2,279,694.2	0.0	18,236.4	0.0	599.6	0.0	311.2
Department of Energy	25,762.4	325.0	17,154.4	0.0	7,462.7	0.0	820.3	0.0	0.0
Department of Health and Human Services	281,091.1	0.0	3,040.2	0.0	252,986.3	0.0	24,929.7	0.0	135.0
Department of Homeland Security	2,588.6	1,565.5	65.3	0.0	957.7	0.0	0.0	0.0	0.0
Department of the Interior	7,149.9	6,100.0	0.0	0.0	758.1	0.0	0.0	0.0	291.8
Department of Transportation	12,383.2	3,419.4	3,847.9	0.0	2,512.8	0.0	99.9	0.0	2,503.2
Environmental Protection Agency	757.2	0.0	3.5	0.0	753.7	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	430,312.3	88,481.2	331,841.7	0.0	9,739.0	0.0	250.4	0.0	0.0
National Science Foundation	23,844.9	0.0	130.7	0.0	23,714.2	0.0	0.0	0.0	0.0
Alaska	196,454.5	82,100.9	34,636.3	0.0	64,005.3	0.0	10,328.6	0.0	5,383.4
Department of Agriculture	16,593.9	12,562.2	0.0	0.0	3,984.2	0.0	0.0	0.0	47.5
Department of Commerce	10,231.3	4,757.6	0.0	0.0	4,080.7	0.0	35.0	0.0	1,358.0
Department of Defense, research	2,109.0	160.4	1,394.2	0.0	259.6	0.0	294.8	0.0	0.0
Department of Defense, total development ^b	56,634.1	17,773.8	30,554.3	0.0	2,896.4	0.0	5,381.3	0.0	28.2
Department of Energy	5,448.7	0.0	169.9	0.0	3,524.3	0.0	0.0	0.0	1,754.5
Department of Health and Human Services	9,913.3	314.0	0.0	0.0	8,720.0	0.0	716.5	0.0	162.8
Department of the Interior	63,893.6	46,532.8	1,825.2	0.0	14,213.8	0.0	435.2	0.0	886.6
Department of Transportation	997.6	0.0	11.3	0.0	18.0	0.0	0.0	0.0	968.3
Environmental Protection Agency	5.4	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	3,129.2	0.0	487.3	0.0	2,641.9	0.0	0.0	0.0	0.0
National Science Foundation	27,498.4	0.0	188.6	0.0	23,666.4	0.0	3,465.8	0.0	177.6
Arizona	2,917,047.9	403,455.5	1,959,031.0	0.0	386,697.9	77,937.8	65,715.5	0.0	24,210.3
Department of Agriculture	27,994.4	19,843.5	24.8	0.0	8,081.7	0.0	0.0	0.0	44.5
Department of Commerce	5,404.0	628.0	2,030.4	0.0	2,681.6	0.0	14.0	0.0	50.0
Department of Defense, research	78,349.7	5,332.1	40,916.2	0.0	32,015.6	0.0	85.7	0.0	0.0
Department of Defense, total development ^b	2,241,006.0	313,153.5	1,852,245.4	0.0	10,524.0	43,142.6	1,149.0	0.0	20,791.6
Department of Energy	10,613.9	0.0	3,029.9	0.0	6,319.1	0.0	1,265.0	0.0	0.0
Department of Health and Human Services	192,569.2	5,356.3	8,657.2	0.0	156,881.2	0.0	21,674.5	0.0	0.0
Department of Homeland Security	28,194.2	19,621.8	2,221.4	0.0	5,809.4	0.0	541.6	0.0	0.0
Department of the Interior	43,040.8	36,403.7	749.1	0.0	5,060.3	0.0	176.3	0.0	651.3
Department of Transportation	15,299.4	938.8	6,652.0	0.0	50.0	0.0	4,985.6	0.0	2,672.9
Environmental Protection Agency	379.0	0.0	96.5	0.0	282.4	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	112,207.8	2,177.8	41,008.6	0.0	63,508.1	0.0	5,513.4	0.0	0.0

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			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
National Science Foundation	161,989.7	0.0	1,399.5	0.0	95,484.4	34,795.2	30,310.5	0.0	0.0
Arkansas	178,642.3	31,264.3	43,274.2	0.0	87,196.6	0.0	14,363.7	0.0	2,543.5
Department of Agriculture	37,482.1	16,871.8	0.0	0.0	13,178.4	0.0	7,117.0	0.0	314.8
Department of Defense, research	10,185.1	*	3,860.7	0.0	6,324.4	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	49,576.9	11,521.3	35,197.6	0.0	2,858.1	0.0	0.0	0.0	0.0
Department of Energy	315.0	0.0	0.0	0.0	315.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	65,107.3	0.0	2,669.0	0.0	55,056.6	0.0	7,246.7	0.0	135.0
Department of Homeland Security	856.3	0.0	0.0	0.0	856.3	0.0	0.0	0.0	0.0
Department of the Interior	3,460.1	2,871.2	0.0	0.0	501.8	0.0	0.0	0.0	87.2
Department of Transportation	2,008.6	0.0	2.1	0.0	0.0	0.0	0.0	0.0	2,006.6
Environmental Protection Agency	25.2	0.0	25.2	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	970.8	0.0	862.0	0.0	108.8	0.0	0.0	0.0	0.0
National Science Foundation	8,654.9	0.0	657.7	0.0	7,997.2	0.0	0.0	0.0	0.0
California	22,768,910.9	2,883,773.8	11,469,397.3	1,317,439.4	3,810,094.3	1,705,808.8	982,317.5	580,207.9	19,872.0
Department of Agriculture	134,937.2	92,930.0	260.3	0.0	41,080.3	0.0	574.6	0.0	92.0
Department of Commerce	13,534.6	203.6	3,594.0	0.0	7,956.6	0.0	1,780.4	0.0	0.0
Department of Defense, research	895,128.9	143,486.7	364,259.1	6,400.6	304,285.5	14,641.7	56,686.1	5,369.3	0.0
Department of Defense, total development ^b	13,385,498.2	2,416,425.2	9,948,619.2	351,574.4	51,304.0	28,285.0	32,136.2	557,154.3	0.0
Department of Energy	1,994,316.2	6,275.4	106,868.3	920,636.7	151,958.4	790,634.6	9,900.4	0.0	8,042.5
Department of Health and Human Services	3,611,962.1	*	190,279.7	6,095.2	2,546,397.3	35,811.0	831,586.3	0.0	1,792.5
Department of Homeland Security	104,195.5	20,523.7	31,347.9	32,549.3	4,807.9	2,526.0	2,783.8	9,656.9	0.0
Department of the Interior	75,896.8	56,426.1	2,628.5	0.0	15,055.0	0.0	777.3	0.0	1,009.9
Department of Transportation	23,760.9	7,508.3	6,385.9	0.0	674.8	0.0	256.7	0.0	8,935.1
Environmental Protection Agency	27,327.0	0.0	19,310.0	0.0	8,016.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,782,931.3	83,557.3	766,489.1	183.3	82,710.1	833,710.5	10,726.7	5,554.3	0.0
National Science Foundation	719,422.3	56,437.3	29,355.2	0.0	595,847.6	200.0	35,109.0	2,473.1	0.0
Colorado	3,815,538.7	294,014.7	2,319,992.7	0.0	512,277.5	131,831.5	375,490.2	173,136.6	8,795.5
Department of Agriculture	48,433.5	36,794.0	92.3	0.0	11,194.1	0.0	230.2	0.0	122.9
Department of Commerce	169,117.8	142,724.2	6,117.9	0.0	17,971.0	1,396.8	908.0	0.0	0.0
Department of Defense, research	84,164.1	10,287.6	43,851.8	0.0	25,400.8	4,152.1	471.7	0.0	0.0
Department of Defense, total development ^b	1,486,869.2	54,789.0	1,114,260.4	0.0	10,228.0	25,766.3	281,735.5	90.0	0.0
Department of Energy	205,914.5	1,222.3	7,638.6	0.0	17,800.5	0.0	7,299.7	171,953.4	0.0
Department of Health and Human Services	336,849.7	0.0	24,967.2	0.0	276,663.1	835.0	32,760.9	0.0	1,623.5
Department of Homeland Security	7,116.5	1,277.8	3,951.4	0.0	794.0	0.0	0.0	1,093.3	0.0
Department of the Interior	41,593.4	33,822.9	917.6	0.0	6,518.4	0.0	129.3	0.0	205.2
Department of Transportation	21,940.2	6,239.8	7,836.8	0.0	2,096.9	0.0	8.2	0.0	5,758.5

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Environmental Protection Agency	19,887.1	0.0	18,100.7	0.0	1,786.4	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,126,857.1	5,839.7	1,066,490.7	0.0	44,376.3	8,702.8	1,447.7	0.0	0.0
National Science Foundation	266,795.6	1,017.3	25,767.3	0.0	97,448.0	90,978.5	50,498.9	0.0	1,085.5
Connecticut	2,425,967.6	239,688.9	1,603,855.8	0.0	550,218.1	0.0	22,621.2	0.0	9,583.5
Department of Agriculture	10,022.7	2,046.4	0.0	0.0	5,254.3	0.0	0.0	0.0	2,722.0
Department of Commerce	4,450.5	0.0	2,998.8	0.0	1,404.7	0.0	47.0	0.0	0.0
Department of Defense, research	56,573.4	592.1	32,607.1	0.0	19,510.8	0.0	3,863.3	0.0	0.0
Department of Defense, total development ^b	1,747,125.0	235,683.8	1,510,288.3	0.0	1,152.8	0.0	0.0	0.0	0.0
Department of Energy	21,334.5	65.0	10,000.2	0.0	11,269.3	0.0	0.0	0.0	0.0
Department of Health and Human Services	487,544.0	0.0	11,472.4	0.0	454,259.9	0.0	18,261.1	0.0	3,550.6
Department of Homeland Security	12,590.3	599.1	10,549.0	0.0	1,442.3	0.0	0.0	0.0	0.0
Department of the Interior	704.2	611.9	0.0	0.0	92.3	0.0	0.0	0.0	0.0
Department of Transportation	13,330.9	0.0	9,796.5	0.0	223.4	0.0	0.0	0.0	3,310.9
Environmental Protection Agency	820.6	0.0	234.9	0.0	585.7	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	16,481.6	90.7	14,353.5	0.0	2,037.4	0.0	0.0	0.0	0.0
National Science Foundation	54,989.9	0.0	1,555.1	0.0	52,985.0	0.0	449.8	0.0	0.0
Delaware	114,728.2	3,469.5	18,385.5	0.0	86,311.1	0.0	5,187.6	0.0	1,374.5
Department of Agriculture	12,661.8	2,070.8	0.0	0.0	10,591.0	0.0	0.0	0.0	0.0
Department of Commerce	4,179.8	0.0	118.1	0.0	3,845.7	0.0	196.0	0.0	20.0
Department of Defense, research	13,463.0	5.0	2,792.8	0.0	10,665.1	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	15,219.6	57.3	10,414.9	0.0	4,747.5	0.0	0.0	0.0	0.0
Department of Energy	5,419.0	0.0	45.8	0.0	5,373.2	0.0	0.0	0.0	0.0
Department of Health and Human Services	31,294.4	0.0	1,780.7	0.0	24,966.1	0.0	4,412.6	0.0	135.0
Department of Homeland Security	33.3	0.0	33.3	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	1,678.5	1,336.3	0.0	0.0	332.2	0.0	10.0	0.0	0.0
Department of Transportation	1,274.9	0.0	55.4	0.0	0.0	0.0	0.0	0.0	1,219.5
Environmental Protection Agency	277.0	0.0	88.2	0.0	188.8	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	4,771.2	0.0	3,048.2	0.0	1,722.9	0.0	0.0	0.0	0.0
National Science Foundation	24,455.6	0.0	8.0	0.0	23,878.6	0.0	569.0	0.0	0.0
District of Columbia	3,007,958.4	2,245,404.6	306,652.7	0.0	196,841.7	0.0	254,816.3	2,106.2	2,136.8
Department of Agriculture	307,864.1	287,248.3	17,211.9	0.0	888.0	0.0	1,259.7	0.0	1,256.2
Department of Commerce	29,778.7	26,224.1	1,868.1	0.0	690.0	0.0	996.5	0.0	0.0
Department of Defense, research	308,431.3	266,362.7	23,429.9	0.0	9,542.3	0.0	9,096.4	0.0	0.0
Department of Defense, total development ^b	1,260,109.9	1,051,043.4	184,798.1	0.0	16,887.9	0.0	5,266.7	2,106.2	7.6
Department of Energy	454,158.5	431,769.5	2,669.6	0.0	4,505.2	0.0	15,214.3	0.0	0.0
Department of Health and Human Services	223,492.1	3,218.3	24,783.2	0.0	127,506.9	0.0	67,983.7	0.0	0.0
Department of Homeland Security	39,913.1	32,389.5	4,244.0	0.0	498.1	0.0	2,781.3	0.0	0.0

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Department of the Interior	19,540.2	15,873.9	15.0	0.0	120.3	0.0	3,531.0	0.0	0.0
Department of Transportation	106,290.3	64,366.4	36,415.4	0.0	689.6	0.0	3,945.8	0.0	873.0
Environmental Protection Agency	54,948.2	41,320.4	2,576.3	0.0	11,051.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	33,961.3	18,141.5	4,910.1	0.0	4,913.3	0.0	5,996.3	0.0	0.0
National Science Foundation	169,470.8	7,446.6	3,731.1	0.0	19,548.5	0.0	138,744.6	0.0	0.0
Florida	2,481,826.6	792,345.2	896,025.5	0.0	665,757.6	0.0	118,857.9	0.0	8,840.4
Department of Agriculture	72,825.6	45,642.1	0.0	0.0	26,725.2	0.0	117.0	0.0	341.3
Department of Commerce	38,087.2	25,112.6	3,938.5	0.0	8,100.2	0.0	436.0	0.0	500.0
Department of Defense, research	178,548.3	73,259.7	36,519.1	0.0	61,402.4	0.0	7,367.1	0.0	0.0
Department of Defense, total development ^b	1,375,493.0	581,375.4	762,796.5	0.0	23,565.6	0.0	7,471.0	0.0	284.6
Department of Energy	33,237.3	102.9	5,447.0	0.0	27,017.7	0.0	669.8	0.0	0.0
Department of Health and Human Services	496,037.3	67.8	16,031.8	0.0	379,597.0	0.0	100,090.5	0.0	250.2
Department of Homeland Security	1,604.5	0.0	1,121.3	0.0	483.2	0.0	0.0	0.0	0.0
Department of the Interior	21,572.0	16,178.2	1,003.5	0.0	3,893.1	0.0	29.0	0.0	468.1
Department of Transportation	26,555.0	385.0	14,040.5	0.0	3,095.4	0.0	2,037.8	0.0	6,996.2
Environmental Protection Agency	12,667.2	10,948.8	1,702.2	0.0	16.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	100,382.4	39,272.7	51,804.0	0.0	9,155.7	0.0	150.0	0.0	0.0
National Science Foundation	124,816.9	0.0	1,621.0	0.0	122,706.1	0.0	489.8	0.0	0.0
Georgia	1,421,811.7	182,862.5	519,644.9	0.0	674,240.5	0.0	36,651.0	0.0	8,413.0
Department of Agriculture	76,343.0	53,890.4	0.0	0.0	21,574.6	0.0	496.4	0.0	381.7
Department of Commerce	1,702.2	0.0	9.9	0.0	1,630.3	0.0	0.0	0.0	62.0
Department of Defense, research	76,027.8	5,521.7	7,724.1	0.0	58,916.9	0.0	3,865.2	0.0	0.0
Department of Defense, total development ^b	523,458.2	35,958.8	459,524.8	0.0	18,385.5	0.0	9,589.1	0.0	0.0
Department of Energy	24,395.9	0.0	584.9	0.0	13,689.6	0.0	10,121.3	0.0	0.0
Department of Health and Human Services	583,057.8	73,972.2	39,758.8	0.0	455,184.2	0.0	12,243.5	0.0	1,899.1
Department of Homeland Security	5,644.1	2,793.7	2,814.3	0.0	0.0	0.0	36.1	0.0	0.0
Department of the Interior	5,607.3	4,300.0	0.0	0.0	1,243.6	0.0	0.0	0.0	63.7
Department of Transportation	12,705.6	0.0	2,485.9	0.0	4,213.1	0.0	0.0	0.0	6,006.5
Environmental Protection Agency	10,508.0	5,512.4	2,184.4	0.0	2,811.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	13,787.1	913.2	3,148.7	0.0	9,725.2	0.0	0.0	0.0	0.0
National Science Foundation	88,574.7	0.0	1,409.0	0.0	86,866.4	0.0	299.3	0.0	0.0
Hawaii	403,573.6	111,537.7	122,271.3	0.0	154,046.7	0.0	14,961.9	0.0	756.0
Department of Agriculture	21,531.0	11,931.3	0.0	0.0	8,406.2	0.0	1,186.1	0.0	7.3
Department of Commerce	6,775.5	3,769.7	0.0	0.0	2,937.8	0.0	54.0	0.0	14.0
Department of Defense, research	44,226.5	4,018.2	23,055.8	0.0	17,152.5	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	206,279.9	85,243.2	93,497.0	0.0	19,733.6	0.0	7,806.1	0.0	0.0

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Department of Energy	3,465.9	0.0	0.0	0.0	3,465.9	0.0	0.0	0.0	0.0
Department of Health and Human Services	60,298.5	0.0	4,583.5	0.0	51,675.8	0.0	3,876.5	0.0	162.7
Department of Homeland Security	1,397.6	0.0	0.0	0.0	1,397.6	0.0	0.0	0.0	0.0
Department of the Interior	8,056.2	6,418.0	0.0	0.0	1,638.2	0.0	0.0	0.0	0.0
Department of Transportation	521.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	521.3
National Aeronautics and Space Administration	13,459.1	157.4	969.0	0.0	12,282.1	0.0	0.0	0.0	50.6
National Science Foundation	37,562.1	0.0	166.0	0.0	35,357.0	0.0	2,039.1	0.0	0.0
Idaho	430,211.7	50,617.9	62,587.2	278,958.0	35,246.7	0.0	1,760.0	0.0	1,041.9
Department of Agriculture	26,532.1	18,071.4	0.0	0.0	8,340.7	0.0	0.0	0.0	120.0
Department of Commerce	593.0	362.0	0.0	0.0	204.0	0.0	0.0	0.0	27.0
Department of Defense, research	7,117.7	925.3	5,047.5	0.0	1,145.0	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	25,255.8	15,171.7	7,291.7	2,792.4	0.0	0.0	0.0	0.0	0.0
Department of Energy	327,050.5	0.0	48,540.4	275,371.8	2,096.5	0.0	1,041.7	0.0	0.0
Department of Health and Human Services	10,512.4	0.0	154.9	0.0	9,643.9	0.0	713.5	0.0	0.0
Department of Homeland Security	793.7	0.0	0.0	793.7	0.0	0.0	0.0	0.0	0.0
Department of the Interior	19,943.0	16,087.5	159.0	0.0	3,691.7	0.0	4.8	0.0	0.0
Department of Transportation	649.3	0.0	0.6	0.0	136.0	0.0	0.0	0.0	512.8
Environmental Protection Agency	288.2	0.0	288.2	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	976.6	0.0	255.9	0.0	720.7	0.0	0.0	0.0	0.0
National Science Foundation	10,499.3	0.0	849.0	0.0	9,268.2	0.0	0.0	0.0	382.2
Illinois	2,878,085.3	360,796.6	398,155.1	0.0	1,225,657.6	794,460.5	89,662.5	0.0	9,353.0
Department of Agriculture	57,607.5	44,125.3	418.9	0.0	12,399.3	0.0	459.3	0.0	204.9
Department of Commerce	3,304.9	0.0	2,443.0	0.0	761.9	0.0	100.0	0.0	0.0
Department of Defense, research	141,343.5	21,199.6	17,581.9	0.0	97,999.5	646.6	3,915.8	0.0	0.0
Department of Defense, total development ^b	397,320.8	268,957.8	109,663.6	0.0	6,873.8	564.5	7,243.2	0.0	4,017.9
Department of Energy	1,038,479.0	3,803.9	169,705.9	0.0	78,089.2	784,119.3	2,760.7	0.0	0.0
Department of Health and Human Services	802,977.9	121.0	29,594.9	0.0	709,459.8	7,158.1	56,367.2	0.0	277.0
Department of Homeland Security	7,202.2	3,295.1	2,439.4	0.0	0.0	1,467.7	0.0	0.0	0.0
Department of the Interior	12,977.1	10,422.5	5.0	0.0	1,961.4	482.4	105.8	0.0	0.0
Department of Transportation	46,598.3	4,006.2	20,928.7	0.0	8,421.5	0.0	8,388.7	0.0	4,853.2
Environmental Protection Agency	10,459.2	0.0	8,120.4	0.0	2,338.8	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	44,549.0	4,865.1	33,183.3	0.0	6,468.7	22.0	9.9	0.0	0.0
National Science Foundation	315,265.8	0.0	4,070.2	0.0	300,883.8	0.0	10,311.8	0.0	0.0
Indiana	903,000.0	147,892.3	312,872.4	0.0	417,216.1	0.0	1,288.3	0.0	23,730.8
Department of Agriculture	22,711.3	6,847.6	0.0	0.0	15,538.8	0.0	0.0	0.0	324.9
Department of Commerce	1,653.8	0.0	0.0	0.0	1,653.8	0.0	0.0	0.0	0.0
Department of Defense, research	64,337.5	13,665.1	16,904.7	0.0	33,767.7	0.0	0.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Industry	Extramural					
				Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, total development ^b	401,665.1	118,425.2	265,166.0	0.0	1,166.3	0.0	0.0	0.0	16,907.6
Department of Energy	20,476.1	0.0	25.4	0.0	20,450.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	220,723.5	0.0	8,603.1	0.0	210,246.4	0.0	1,216.1	0.0	657.9
Department of Homeland Security	7,464.8	909.0	2,547.9	0.0	4,007.9	0.0	0.0	0.0	0.0
Department of the Interior	6,335.1	5,458.7	0.0	0.0	764.4	0.0	0.0	0.0	112.0
Department of Transportation	23,129.4	2,518.6	13,829.5	0.0	1,053.0	0.0	0.0	0.0	5,728.3
Environmental Protection Agency	681.9	0.0	569.8	0.0	112.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	8,337.4	68.1	2,762.3	0.0	5,496.9	0.0	10.0	0.0	0.0
National Science Foundation	125,484.1	0.0	2,463.6	0.0	122,958.3	0.0	62.2	0.0	0.0
Iowa	695,338.5	60,239.6	282,396.1	0.0	311,007.0	28,426.5	11,012.1	0.0	2,257.2
Department of Agriculture	82,480.3	52,303.8	0.0	0.0	30,021.7	0.0	119.8	0.0	35.0
Department of Commerce	567.0	0.0	0.0	0.0	567.0	0.0	0.0	0.0	0.0
Department of Defense, research	26,162.0	0.0	10,581.7	0.0	12,510.1	3,070.2	0.0	0.0	0.0
Department of Defense, total development ^b	271,346.3	1,433.3	266,893.2	0.0	3,019.7	0.0	0.0	0.0	0.0
Department of Energy	39,659.3	0.0	0.0	0.0	8,238.1	25,345.2	6,076.0	0.0	0.0
Department of Health and Human Services	210,440.5	0.0	2,550.8	0.0	202,447.3	0.0	4,816.3	0.0	626.1
Department of the Interior	6,903.3	5,633.8	0.0	0.0	660.9	0.0	0.0	0.0	608.5
Department of Transportation	1,785.2	0.0	0.9	0.0	881.8	0.0	0.0	0.0	902.5
Environmental Protection Agency	2,059.3	0.0	28.5	0.0	2,030.8	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	4,909.3	868.7	1,475.2	0.0	2,554.4	11.1	0.0	0.0	0.0
National Science Foundation	49,026.1	0.0	865.9	0.0	48,075.1	0.0	0.0	0.0	85.1
Kansas	367,779.8	39,289.6	157,939.1	0.0	164,127.5	0.0	5,501.2	0.0	922.4
Department of Agriculture	25,863.0	13,559.3	0.0	0.0	12,303.7	0.0	0.0	0.0	0.0
Department of Defense, research	9,312.1	680.2	947.6	0.0	5,430.6	0.0	2,253.8	0.0	0.0
Department of Defense, total development ^b	173,767.0	20,593.6	152,104.5	0.0	1,068.9	0.0	0.0	0.0	0.0
Department of Energy	5,817.1	0.0	380.4	0.0	5,436.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	107,044.6	0.0	2,198.9	0.0	101,908.8	0.0	2,936.9	0.0	0.0
Department of Homeland Security	2,119.4	0.0	1.0	0.0	2,118.5	0.0	0.0	0.0	0.0
Department of the Interior	5,525.3	4,450.8	0.0	0.0	848.3	0.0	226.3	0.0	0.0
Department of Transportation	3,308.9	0.0	0.0	0.0	2,386.5	0.0	0.0	0.0	922.4
Environmental Protection Agency	811.1	0.0	811.1	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,495.9	5.8	1,345.6	0.0	1,144.4	0.0	0.0	0.0	0.0
National Science Foundation	31,715.4	0.0	150.0	0.0	31,481.2	0.0	84.1	0.0	0.0
Kentucky	241,959.2	13,146.6	30,377.5	0.0	188,367.6	0.0	5,428.4	0.0	4,639.1
Department of Agriculture	19,097.4	3,508.6	0.0	0.0	15,353.8	0.0	0.0	0.0	235.0
Department of Commerce	155.3	0.0	90.0	0.0	65.3	0.0	0.0	0.0	0.0
Department of Defense, research	10,131.4	997.8	1,277.2	0.0	4,308.4	0.0	3,548.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, total development ^b	13,879.8	1,476.0	9,957.3	0.0	2,446.5	0.0	0.0	0.0	0.0
Department of Energy	3,287.9	0.0	0.0	0.0	3,287.9	0.0	0.0	0.0	0.0
Department of Health and Human Services	159,256.8	0.0	15,551.1	0.0	143,447.9	0.0	0.0	0.0	257.8
Department of Homeland Security	2,443.1	0.0	1,210.1	0.0	0.0	0.0	1,233.1	0.0	0.0
Department of the Interior	6,221.7	5,646.4	0.0	0.0	546.3	0.0	0.0	0.0	29.0
Department of Transportation	7,899.0	1,420.1	16.2	0.0	2,353.3	0.0	362.0	0.0	3,747.4
Environmental Protection Agency	847.2	0.0	564.0	0.0	283.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,425.6	97.6	761.2	0.0	566.8	0.0	0.0	0.0	0.0
National Science Foundation	17,313.9	0.0	950.5	0.0	15,708.2	0.0	285.4	0.0	369.8
Louisiana	597,294.0	319,908.4	35,132.8	0.0	224,599.7	0.0	7,189.9	0.0	10,463.1
Department of Agriculture	55,339.0	37,650.4	0.0	0.0	17,688.6	0.0	0.0	0.0	0.0
Department of Commerce	1,312.9	0.0	0.0	0.0	1,209.9	0.0	50.0	0.0	53.0
Department of Defense, research	9,180.2	279.8	2,368.6	0.0	6,426.1	0.0	105.7	0.0	0.0
Department of Defense, total development ^b	304,192.3	272,261.0	22,651.8	0.0	4,349.5	0.0	4,930.0	0.0	0.0
Department of Energy	6,243.8	0.0	487.2	0.0	5,756.5	0.0	0.0	0.0	0.0
Department of Health and Human Services	172,763.3	2,563.4	3,667.4	0.0	164,246.9	0.0	2,007.9	0.0	277.8
Department of Homeland Security	6.9	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	9,798.9	7,153.8	1,374.7	0.0	1,168.3	0.0	2.0	0.0	100.0
Department of Transportation	5,519.3	0.0	0.2	0.0	0.0	0.0	89.2	0.0	5,429.9
Environmental Protection Agency	159.6	0.0	159.6	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	4,662.2	0.0	3,618.0	0.0	1,044.2	0.0	0.0	0.0	0.0
National Science Foundation	28,115.5	0.0	798.4	0.0	22,709.7	0.0	5.0	0.0	4,602.4
Maine	179,968.8	20,155.8	53,518.2	0.0	26,752.6	0.0	77,586.4	0.0	1,955.9
Department of Agriculture	11,089.0	3,825.4	0.0	0.0	6,712.1	0.0	0.0	0.0	551.5
Department of Commerce	1,655.7	0.0	0.0	0.0	1,244.7	0.0	70.0	0.0	341.0
Department of Defense, research	8,682.4	6.0	6,227.0	0.0	551.7	0.0	1,897.7	0.0	0.0
Department of Defense, total development ^b	56,106.6	13,002.5	43,019.9	0.0	84.1	0.0	0.0	0.0	0.0
Department of Energy	814.9	0.0	0.0	0.0	620.0	0.0	194.9	0.0	0.0
Department of Health and Human Services	77,411.9	0.0	1,169.6	0.0	4,439.9	0.0	71,440.2	0.0	362.3
Department of Homeland Security	33.8	0.0	33.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	4,145.5	3,321.9	0.0	0.0	425.3	0.0	100.0	0.0	298.4
Department of Transportation	1,785.4	0.0	1,382.7	0.0	0.0	0.0	0.0	0.0	402.6
Environmental Protection Agency	345.0	0.0	345.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,056.7	0.0	860.8	0.0	1,196.0	0.0	0.0	0.0	0.0
National Science Foundation	15,841.9	0.0	479.4	0.0	11,478.9	0.0	3,883.6	0.0	0.0
Maryland	15,750,592.7	9,901,940.8	3,537,669.9	451,668.0	1,532,308.2	0.0	324,074.3	0.0	2,931.5
Department of Agriculture	161,656.6	146,793.1	308.0	0.0	12,849.3	0.0	1,698.0	0.0	8.2

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Commerce	526,063.3	495,104.1	8,794.6	0.0	21,773.1	0.0	383.5	0.0	8.0
Department of Defense, research	705,714.2	476,898.4	145,999.4	0.0	73,303.0	0.0	9,513.3	0.0	0.0
Department of Defense, total development ^b	5,707,666.5	2,996,631.5	2,427,987.2	4,325.5	224,155.6	0.0	54,167.0	0.0	399.7
Department of Energy	24,011.6	3,109.1	1,573.6	0.0	17,770.5	0.0	1,558.4	0.0	0.0
Department of Health and Human Services	7,412,637.4	5,375,513.5	493,732.0	447,342.5	935,321.3	0.0	159,090.3	0.0	1,637.8
Department of Homeland Security	60,684.2	37,545.4	7,744.3	0.0	15,228.5	0.0	166.0	0.0	0.0
Department of the Interior	5,715.1	4,595.2	432.6	0.0	517.3	0.0	122.0	0.0	48.0
Department of Transportation	32,525.1	6,100.1	18,718.6	0.0	6,321.0	0.0	635.7	0.0	749.7
Environmental Protection Agency	68,476.7	506.6	64,531.6	0.0	3,438.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	933,655.6	353,505.7	363,267.0	0.0	125,855.9	0.0	91,027.0	0.0	0.0
National Science Foundation	111,786.2	5,638.1	4,580.9	0.0	95,774.2	0.0	5,713.1	0.0	80.0
Massachusetts	7,758,388.4	520,506.4	3,197,800.6	0.0	1,637,994.8	421,562.9	1,536,655.5	435,253.8	8,614.2
Department of Agriculture	30,433.5	11,615.0	44.5	0.0	18,763.0	0.0	11.0	0.0	0.0
Department of Commerce	33,407.3	13,445.9	10,429.0	0.0	9,196.4	0.0	327.0	0.0	9.0
Department of Defense, research	414,519.6	31,987.1	166,009.4	0.0	144,567.4	48,629.4	22,866.1	460.3	0.0
Department of Defense, total development ^b	4,010,499.5	356,360.1	2,755,047.0	0.0	44,499.7	359,060.9	57,198.6	434,793.5	3,539.7
Department of Energy	117,119.8	4,992.9	6,049.6	0.0	101,583.8	0.0	4,493.5	0.0	0.0
Department of Health and Human Services	2,541,844.6	399.8	152,012.8	0.0	980,833.9	0.0	1,404,205.3	0.0	4,392.7
Department of Homeland Security	36,763.3	1,693.8	15,770.3	0.0	5,438.0	13,861.2	0.0	0.0	0.0
Department of the Interior	13,084.2	9,634.0	748.0	0.0	1,344.7	0.0	1,307.5	0.0	50.0
Department of Transportation	59,580.0	50,062.4	6,424.1	0.0	1,788.1	11.5	671.2	0.0	622.8
Environmental Protection Agency	20,680.9	0.0	14,672.2	0.0	6,008.7	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	114,055.7	39,307.4	40,640.8	0.0	33,994.5	0.0	113.0	0.0	0.0
National Science Foundation	366,399.7	1,008.0	29,953.1	0.0	289,976.3	0.0	45,462.3	0.0	0.0
Michigan	2,153,449.0	497,613.4	669,583.7	0.0	929,710.8	0.0	52,865.1	0.0	3,675.9
Department of Agriculture	38,368.0	6,647.9	0.0	0.0	31,703.3	0.0	16.8	0.0	0.0
Department of Commerce	16,277.9	8,415.0	1,446.9	0.0	5,727.1	0.0	38.0	0.0	651.0
Department of Defense, research	104,992.7	40,038.1	22,707.8	0.0	42,246.8	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	902,118.9	427,431.9	434,603.6	0.0	16,818.7	0.0	23,264.6	0.0	0.0
Department of Energy	32,430.8	0.0	3,029.2	0.0	29,401.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	834,182.5	0.0	186,787.0	0.0	621,053.8	0.0	25,348.8	0.0	992.9
Department of Homeland Security	910.1	0.0	639.7	0.0	270.4	0.0	0.0	0.0	0.0
Department of the Interior	11,632.1	9,635.5	0.0	0.0	1,894.6	0.0	0.0	0.0	102.0
Department of Transportation	18,564.0	4,344.6	6,435.2	0.0	1,837.1	0.0	4,017.1	0.0	1,930.1
Environmental Protection Agency	6,977.8	1,039.9	1,012.8	0.0	4,925.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	22,757.9	60.5	8,437.1	0.0	14,260.2	0.0	0.0	0.0	0.0
National Science Foundation	164,236.1	0.0	4,484.3	0.0	159,572.1	0.0	179.7	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Minnesota	949,293.0	100,627.0	221,325.4	0.0	401,766.1	0.0	219,387.9	0.0	6,186.6
Department of Agriculture	40,925.0	21,888.2	0.0	0.0	18,339.3	0.0	50.0	0.0	647.5
Department of Commerce	1,667.8	0.0	820.2	0.0	847.5	0.0	0.0	0.0	0.0
Department of Defense, research	30,519.5	416.4	18,089.6	0.0	10,289.1	0.0	1,724.4	0.0	0.0
Department of Defense, total development ^b	235,697.7	54,941.3	177,971.7	0.0	2,163.1	0.0	621.6	0.0	0.0
Department of Energy	14,573.8	0.0	817.4	0.0	13,756.4	0.0	0.0	0.0	0.0
Department of Health and Human Services	502,573.8	0.0	13,173.8	0.0	270,825.5	0.0	216,292.6	0.0	2,281.9
Department of Homeland Security	7,978.3	0.0	0.2	0.0	7,978.1	0.0	0.0	0.0	0.0
Department of the Interior	10,424.2	8,370.3	15.0	0.0	1,420.7	0.0	66.7	0.0	551.5
Department of Transportation	4,320.5	0.0	1,609.3	0.0	0.0	0.0	5.5	0.0	2,705.6
Environmental Protection Agency	15,972.7	14,905.0	878.9	0.0	188.8	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,208.8	105.8	4,405.4	0.0	2,697.6	0.0	0.0	0.0	0.0
National Science Foundation	77,430.9	0.0	3,543.9	0.0	73,260.0	0.0	627.0	0.0	0.0
Mississippi	588,082.5	230,751.1	246,960.5	0.0	106,066.6	0.0	739.8	0.0	3,564.5
Department of Agriculture	88,193.8	61,252.5	0.0	0.0	26,245.6	0.0	383.5	0.0	312.3
Department of Commerce	635.7	0.0	0.0	0.0	510.7	0.0	98.0	0.0	27.0
Department of Defense, research	55,919.8	36,527.2	9,553.0	0.0	9,839.6	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	368,691.2	121,683.6	234,876.7	0.0	12,131.0	0.0	0.0	0.0	0.0
Department of Energy	2,595.5	0.0	0.0	0.0	2,595.5	0.0	0.0	0.0	0.0
Department of Health and Human Services	40,179.1	0.0	167.4	0.0	38,837.3	0.0	243.4	0.0	931.1
Department of Homeland Security	4,876.6	3,179.4	0.0	0.0	1,697.2	0.0	0.0	0.0	0.0
Department of the Interior	4,342.3	3,635.2	0.0	0.0	517.7	0.0	15.0	0.0	174.4
Department of Transportation	2,121.5	0.0	1.7	0.0	0.0	0.0	0.0	0.0	2,119.8
Environmental Protection Agency	128.1	0.0	12.8	0.0	115.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,805.2	4,473.2	2,348.9	0.0	983.1	0.0	0.0	0.0	0.0
National Science Foundation	12,593.7	0.0	0.0	0.0	12,593.7	0.0	0.0	0.0	0.0
Missouri	1,193,265.6	53,332.3	559,182.4	0.0	546,570.0	0.0	28,507.7	0.0	5,673.3
Department of Agriculture	35,082.5	17,541.1	0.0	0.0	17,537.4	0.0	4.0	0.0	0.0
Department of Commerce	2,392.0	0.0	2,110.0	0.0	282.0	0.0	0.0	0.0	0.0
Department of Defense, research	27,269.5	206.3	16,341.9	0.0	10,721.2	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	497,834.7	25,428.6	471,126.4	0.0	1,279.7	0.0	0.0	0.0	0.0
Department of Energy	79,841.0	0.0	56,283.8	0.0	11,842.9	0.0	9,316.4	0.0	2,397.9
Department of Health and Human Services	488,157.9	752.5	7,351.0	0.0	464,408.0	0.0	15,483.6	0.0	162.8
Department of Homeland Security	1,473.5	0.0	24.5	0.0	22.5	0.0	1,426.5	0.0	0.0
Department of the Interior	11,498.0	9,292.6	0.0	0.0	1,682.6	0.0	0.0	0.0	522.8
Department of Transportation	3,081.9	0.0	192.2	0.0	300.0	0.0	0.0	0.0	2,589.8

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Environmental Protection Agency	416.6	0.0	379.6	0.0	37.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	10,066.6	111.2	4,230.4	0.0	5,725.0	0.0	0.0	0.0	0.0
National Science Foundation	36,151.3	0.0	1,142.6	0.0	32,731.5	0.0	2,277.2	0.0	0.0
Montana	181,657.3	68,417.3	34,694.0	0.0	67,038.3	0.0	6,672.3	0.0	4,835.5
Department of Agriculture	23,838.4	15,821.1	7.2	0.0	7,487.5	0.0	494.4	0.0	28.2
Department of Commerce	229.2	0.0	66.0	0.0	163.2	0.0	0.0	0.0	0.0
Department of Defense, research	20,803.6	1,591.7	13,968.1	0.0	5,243.8	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	13,072.8	618.1	8,302.8	0.0	2,618.8	0.0	1,533.0	0.0	0.0
Department of Energy	6,474.9	0.0	0.0	0.0	5,755.0	0.0	719.9	0.0	0.0
Department of Health and Human Services	80,149.7	39,037.1	7,886.9	0.0	29,303.9	0.0	3,921.9	0.0	0.0
Department of the Interior	14,233.3	11,349.4	0.0	0.0	2,880.9	0.0	3.0	0.0	0.0
Department of Transportation	807.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	807.3
Environmental Protection Agency	4.6	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,490.6	0.0	3,657.7	0.0	3,832.8	0.0	0.0	0.0	0.0
National Science Foundation	14,553.1	0.0	800.7	0.0	9,752.4	0.0	0.0	0.0	4,000.0
Nebraska	262,148.0	57,322.7	72,286.0	0.0	122,069.1	0.0	8,340.9	0.0	2,129.2
Department of Agriculture	36,649.6	25,465.9	0.0	0.0	11,183.7	0.0	0.0	0.0	0.0
Department of Commerce	348.3	0.0	0.0	0.0	342.3	0.0	6.0	0.0	0.0
Department of Defense, research	19,150.8	7,569.5	8,066.9	0.0	3,514.4	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	87,088.9	21,044.0	57,598.5	0.0	6,346.3	0.0	2,100.0	0.0	0.0
Department of Energy	1,624.2	0.0	0.0	0.0	1,624.2	0.0	0.0	0.0	0.0
Department of Health and Human Services	85,337.3	0.0	2,335.1	0.0	76,881.1	0.0	5,843.2	0.0	278.0
Department of the Interior	4,013.8	3,237.0	0.0	0.0	551.1	0.0	185.7	0.0	40.0
Department of Transportation	8,309.4	0.0	3,557.0	0.0	2,941.1	0.0	0.0	0.0	1,811.2
Environmental Protection Agency	346.1	0.0	31.4	0.0	314.7	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	542.6	6.3	18.0	0.0	518.3	0.0	0.0	0.0	0.0
National Science Foundation	18,737.0	0.0	679.1	0.0	17,851.9	0.0	206.0	0.0	0.0
Nevada	478,098.5	82,979.0	348,560.7	0.0	43,211.4	0.0	2,463.8	0.0	883.7
Department of Agriculture	4,799.0	2,451.3	63.1	0.0	2,280.6	0.0	0.0	0.0	4.1
Department of Commerce	240.0	0.0	0.0	0.0	240.0	0.0	0.0	0.0	0.0
Department of Defense, research	7,520.0	5,245.5	840.5	0.0	1,434.0	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	174,738.9	52,832.0	119,250.4	0.0	2,656.5	0.0	0.0	0.0	0.0
Department of Energy	224,473.6	0.0	221,426.3	0.0	2,181.6	0.0	865.7	0.0	0.0
Department of Health and Human Services	20,825.3	0.0	229.4	0.0	19,051.7	0.0	1,544.1	0.0	0.0
Department of Homeland Security	1,934.6	1,374.4	0.0	0.0	560.3	0.0	0.0	0.0	0.0
Department of the Interior	8,163.4	6,402.4	59.6	0.0	1,647.5	0.0	53.9	0.0	0.0
Department of Transportation	971.8	0.0	6.0	0.0	86.2	0.0	0.0	0.0	879.6

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Environmental Protection Agency	14,655.8	14,293.1	362.7	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,713.9	380.2	5,714.7	0.0	1,619.0	0.0	0.0	0.0	0.0
National Science Foundation	12,062.1	0.0	608.0	0.0	11,454.1	0.0	0.0	0.0	0.0
New Hampshire	406,011.8	39,245.5	226,980.4	0.0	137,020.5	0.0	2,005.9	0.0	759.6
Department of Agriculture	11,273.9	5,916.6	0.0	0.0	5,082.5	0.0	274.8	0.0	0.0
Department of Commerce	4,694.1	0.0	0.0	0.0	4,694.1	0.0	0.0	0.0	0.0
Department of Defense, research	34,621.4	5,664.3	24,679.3	0.0	3,928.9	0.0	348.8	0.0	0.0
Department of Defense, total development ^b	209,851.7	19,628.7	187,150.3	0.0	3,072.6	0.0	0.0	0.0	0.0
Department of Energy	2,319.6	0.0	0.0	0.0	2,319.6	0.0	0.0	0.0	0.0
Department of Health and Human Services	90,012.7	0.0	6,915.4	0.0	82,632.7	0.0	300.0	0.0	164.6
Department of Homeland Security	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	6,369.1	5,006.3	0.0	0.0	803.0	0.0	421.8	0.0	138.0
Department of Transportation	485.9	0.0	28.9	0.0	0.0	0.0	0.0	0.0	457.0
Environmental Protection Agency	21.2	0.0	2.3	0.0	18.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	17,211.8	1,104.3	7,903.2	0.0	8,183.9	0.0	20.4	0.0	0.0
National Science Foundation	29,149.5	1,925.3	300.0	0.0	26,284.2	0.0	640.0	0.0	0.0
New Jersey	2,582,709.2	527,971.7	1,473,931.0	0.0	426,743.8	60,700.0	17,339.4	0.0	76,023.2
Department of Agriculture	15,188.3	35.2	1,925.6	0.0	13,221.5	0.0	0.0	0.0	6.0
Department of Commerce	28,394.5	19,825.0	3,022.0	0.0	5,484.5	0.0	63.0	0.0	0.0
Department of Defense, research	174,671.2	72,407.2	62,425.8	0.0	38,748.7	0.0	1,089.4	0.0	0.0
Department of Defense, total development ^b	1,843,913.6	409,491.2	1,349,752.6	0.0	10,336.7	0.0	2,143.3	0.0	72,189.7
Department of Energy	91,502.4	124.5	4,819.1	0.0	25,052.6	60,700.0	806.2	0.0	0.0
Department of Health and Human Services	259,321.4	0.0	29,686.4	0.0	215,826.0	0.0	13,168.9	0.0	640.1
Department of Homeland Security	9,558.9	731.0	2,963.9	0.0	5,844.1	0.0	20.0	0.0	0.0
Department of the Interior	4,513.8	3,442.6	0.0	0.0	798.4	0.0	0.0	0.0	272.8
Department of Transportation	30,881.0	20,896.5	5,852.8	0.0	1,217.2	0.0	0.0	0.0	2,914.5
Environmental Protection Agency	2,853.2	0.0	2,103.5	0.0	749.8	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	14,197.1	918.5	9,399.4	0.0	3,830.5	0.0	48.7	0.0	0.0
National Science Foundation	107,713.8	100.0	1,979.8	0.0	105,634.0	0.0	0.0	0.0	0.0
New Mexico	3,456,208.0	574,673.6	370,300.4	2,316,257.8	154,658.5	0.0	33,073.2	0.0	7,244.5
Department of Agriculture	11,259.5	6,798.2	103.0	0.0	2,843.8	0.0	1,160.0	0.0	354.4
Department of Commerce	513.8	0.0	12.4	0.0	501.4	0.0	0.0	0.0	0.0
Department of Defense, research	272,433.9	114,519.3	113,984.6	29,447.4	13,575.2	0.0	152.3	0.0	755.1
Department of Defense, total development ^b	819,428.4	340,753.1	237,743.4	230,286.4	7,429.4	0.0	3,022.8	0.0	193.3
Department of Energy	2,056,353.3	75,795.5	1,419.0	1,953,783.9	21,413.0	0.0	2,488.3	0.0	1,453.6
Department of Health and Human Services	114,736.6	1,000.0	4,347.3	9,705.2	76,797.7	0.0	21,566.2	0.0	1,320.2
Department of Homeland Security	30,066.6	0.0	817.7	28,999.3	249.6	0.0	0.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of the Interior	29,233.1	26,955.4	105.0	0.0	2,172.8	0.0	0.0	0.0	0.0
Department of Transportation	68,811.6	1,437.9	850.1	63,584.7	170.0	0.0	8.3	0.0	2,760.7
Environmental Protection Agency	2,724.0	0.0	2,705.1	0.0	18.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	16,938.2	6,950.8	7,046.6	450.9	2,489.8	0.0	0.0	0.0	0.0
National Science Foundation	33,709.0	463.4	1,166.3	0.0	26,996.8	0.0	4,675.3	0.0	407.2
New York	5,042,119.6	210,069.9	1,810,582.6	0.0	2,210,028.4	0.0	350,589.5	369,322.5	91,526.7
Department of Agriculture	43,917.7	18,279.1	25.5	0.0	23,966.9	0.0	1,646.2	0.0	0.0
Department of Commerce	21,673.4	0.0	362.0	0.0	21,252.7	0.0	58.7	0.0	0.0
Department of Defense, research	237,958.1	81,778.0	61,704.7	0.0	90,591.5	0.0	3,648.6	235.3	0.0
Department of Defense, total development ^b	1,324,580.9	76,343.2	1,232,962.6	0.0	8,653.9	0.0	6,547.5	73.8	0.0
Department of Energy	864,538.3	8,582.7	381,290.5	0.0	116,562.7	0.0	2,869.0	355,233.3	0.0
Department of Health and Human Services	2,073,686.4	136.0	77,731.7	0.0	1,591,120.0	0.0	315,734.7	7,571.4	81,392.6
Department of Homeland Security	22,944.1	17,992.6	1,744.2	0.0	2,431.0	0.0	776.3	0.0	0.0
Department of the Interior	5,843.7	4,307.6	320.8	0.0	766.4	0.0	157.7	0.0	291.2
Department of Transportation	15,375.1	2,518.6	6,879.5	0.0	940.5	0.0	0.0	0.0	5,036.6
Environmental Protection Agency	6,895.5	0.0	4,055.0	0.0	2,840.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	65,315.3	132.1	34,854.5	0.0	23,865.2	0.0	254.9	6,208.6	0.0
National Science Foundation	359,391.1	0.0	8,651.5	0.0	327,037.2	0.0	18,896.2	0.0	4,806.3
North Carolina	2,060,306.3	386,539.6	214,093.2	0.0	1,264,294.7	0.0	190,015.7	0.0	5,363.2
Department of Agriculture	52,716.0	22,563.0	0.0	0.0	29,214.2	0.0	601.1	0.0	337.7
Department of Commerce	23,571.5	13,700.8	7,346.0	0.0	2,302.9	0.0	119.8	0.0	102.0
Department of Defense, research	96,239.4	24,115.8	23,457.3	0.0	48,628.6	0.0	37.7	0.0	0.0
Department of Defense, total development ^b	236,410.7	36,242.3	55,803.1	0.0	107,636.4	0.0	36,399.4	0.0	329.4
Department of Energy	24,631.7	298.9	0.0	0.0	22,343.2	0.0	1,989.6	0.0	0.0
Department of Health and Human Services	1,266,644.2	130,603.0	99,959.1	0.0	895,608.0	0.0	139,465.1	0.0	1,009.0
Department of Homeland Security	10,070.6	852.4	1,420.4	0.0	4,621.7	0.0	3,176.1	0.0	0.0
Department of the Interior	29,729.0	23,658.0	149.9	0.0	5,645.0	0.0	0.0	0.0	276.1
Department of Transportation	21,430.6	5,429.0	5,376.6	0.0	2,326.6	0.0	4,989.4	0.0	3,309.0
Environmental Protection Agency	149,911.2	128,942.0	17,443.6	0.0	3,525.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	6,096.5	134.3	2,151.0	0.0	2,677.8	0.0	1,133.4	0.0	0.0
National Science Foundation	142,854.9	0.0	986.1	0.0	139,764.8	0.0	2,104.1	0.0	0.0
North Dakota	117,702.5	29,132.8	12,620.5	0.0	73,100.2	0.0	2,839.0	0.0	10.0
Department of Agriculture	37,510.2	26,809.3	0.0	0.0	10,700.9	0.0	0.0	0.0	0.0
Department of Commerce	1,619.6	0.0	1,460.6	0.0	159.0	0.0	0.0	0.0	0.0
Department of Defense, research	4,398.1	0.0	73.1	0.0	4,324.9	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	24,288.4	0.0	8,581.1	0.0	15,707.3	0.0	0.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Energy	13,228.1	0.0	0.0	0.0	11,281.0	0.0	1,947.1	0.0	0.0
Department of Health and Human Services	18,182.9	0.0	2,075.9	0.0	15,215.2	0.0	891.9	0.0	0.0
Department of the Interior	2,630.0	2,312.6	0.0	0.0	307.3	0.0	0.0	0.0	10.0
Department of Transportation	1,224.3	0.0	0.0	0.0	1,224.3	0.0	0.0	0.0	0.0
Environmental Protection Agency	18.9	0.0	0.0	0.0	18.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,194.4	10.8	4.1	0.0	1,179.5	0.0	0.0	0.0	0.0
National Science Foundation	13,407.6	0.0	425.6	0.0	12,982.0	0.0	0.0	0.0	0.0
Ohio	3,554,656.3	960,129.9	1,637,562.9	0.0	777,704.6	0.0	176,072.3	0.0	3,186.7
Department of Agriculture	26,587.8	12,776.6	0.0	0.0	13,197.2	0.0	608.0	0.0	6.0
Department of Commerce	5,476.2	0.0	3,944.4	0.0	1,405.8	0.0	126.0	0.0	0.0
Department of Defense, research	595,172.9	308,632.1	210,326.0	0.0	66,707.7	0.0	8,636.3	0.0	870.8
Department of Defense, total development ^b	1,857,414.9	515,165.0	1,291,532.6	0.0	42,691.3	0.0	8,025.9	0.0	0.0
Department of Energy	30,305.5	28.1	2,112.0	0.0	15,704.6	0.0	12,460.8	0.0	0.0
Department of Health and Human Services	719,552.2	10,745.4	39,904.0	0.0	529,324.6	0.0	139,431.5	0.0	146.7
Department of Homeland Security	6,041.7	6,038.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	3,835.3	3,273.2	0.0	0.0	274.2	0.0	5.0	0.0	282.9
Department of Transportation	10,112.4	3,032.0	2,706.9	0.0	1,671.1	0.0	1,327.0	0.0	1,375.3
Environmental Protection Agency	36,756.8	0.0	35,315.2	0.0	1,441.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	159,853.8	100,439.0	46,045.4	0.0	8,416.9	0.0	4,952.4	0.0	0.0
National Science Foundation	103,546.9	0.0	5,673.0	0.0	96,869.7	0.0	499.4	0.0	504.8
Oklahoma	462,535.7	186,373.7	143,491.7	0.0	103,137.4	0.0	28,160.0	0.0	1,372.9
Department of Agriculture	22,251.7	13,296.4	0.0	0.0	8,717.7	0.0	32.0	0.0	205.5
Department of Commerce	15,126.3	11,850.0	0.0	0.0	3,194.3	0.0	82.0	0.0	0.0
Department of Defense, research	58,165.4	25,615.4	25,815.7	0.0	5,799.2	0.0	935.1	0.0	0.0
Department of Defense, total development ^b	217,123.7	108,506.5	107,128.3	0.0	466.4	0.0	1,022.5	0.0	0.0
Department of Energy	7,658.9	2,547.2	23.4	0.0	4,329.0	0.0	759.3	0.0	0.0
Department of Health and Human Services	83,610.6	0.0	4,328.6	0.0	54,367.4	0.0	24,752.1	0.0	162.5
Department of Homeland Security	1,421.1	0.0	1,421.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	4,785.7	2,982.7	0.0	0.0	1,778.0	0.0	0.0	0.0	25.0
Department of Transportation	17,127.4	12,984.4	3,005.3	0.0	158.4	0.0	0.0	0.0	979.3
Environmental Protection Agency	9,186.0	8,229.5	619.4	0.0	337.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,079.1	13.2	704.9	0.0	1,340.4	0.0	20.0	0.0	0.6
National Science Foundation	23,999.8	348.3	444.9	0.0	22,649.5	0.0	557.0	0.0	0.0
Oregon	711,080.7	92,764.7	207,686.5	0.0	371,877.2	0.0	34,687.4	0.0	4,064.9
Department of Agriculture	61,123.5	44,571.7	325.2	0.0	15,730.2	0.0	285.3	0.0	211.1
Department of Commerce	9,178.6	3,525.0	576.5	0.0	4,965.2	0.0	19.0	0.0	93.0
Department of Defense, research	22,295.7	361.6	8,567.2	0.0	13,366.9	0.0	0.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, total development ^b	162,200.2	396.1	157,339.1	0.0	4,465.0	0.0	0.0	0.0	0.0
Department of Energy	23,609.9	9,468.1	4,402.9	0.0	8,167.1	0.0	1,471.4	0.0	100.5
Department of Health and Human Services	310,929.5	0.0	28,023.9	0.0	250,720.0	0.0	30,759.8	0.0	1,425.8
Department of Homeland Security	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	23,674.9	18,367.7	16.0	0.0	3,636.7	0.0	1,072.0	0.0	582.5
Department of Transportation	1,988.9	0.0	12.2	0.0	324.6	0.0	0.0	0.0	1,652.0
Environmental Protection Agency	17,127.1	15,571.7	1,442.1	0.0	113.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	9,013.0	502.8	4,578.4	0.0	3,917.3	0.0	14.5	0.0	0.0
National Science Foundation	69,938.9	0.0	2,402.3	0.0	66,471.0	0.0	1,065.6	0.0	0.0
Pennsylvania	4,512,982.4	220,076.9	2,203,328.4	0.0	1,714,482.3	36,154.7	286,121.7	0.0	52,818.4
Department of Agriculture	69,864.5	54,308.3	25.0	0.0	15,229.3	0.0	295.9	0.0	6.0
Department of Commerce	4,570.5	0.0	1,818.8	0.0	2,558.7	0.0	193.0	0.0	0.0
Department of Defense, research	197,706.6	2,882.7	53,599.7	0.0	135,663.2	1,792.7	3,768.4	0.0	0.0
Department of Defense, total development ^b	1,914,371.5	64,287.0	1,621,804.6	0.0	119,406.0	33,981.7	24,291.2	0.0	50,600.9
Department of Energy	560,602.3	65,064.2	458,438.3	0.0	35,974.5	0.0	1,125.4	0.0	0.0
Department of Health and Human Services	1,504,557.7	22,730.3	37,858.0	0.0	1,193,808.8	380.3	249,629.3	0.0	151.0
Department of Homeland Security	2,158.8	499.2	1,340.7	0.0	319.0	0.0	0.0	0.0	0.0
Department of the Interior	9,039.9	7,482.5	0.0	0.0	848.6	0.0	452.0	0.0	256.8
Department of Transportation	15,967.6	2,518.6	10,864.7	0.0	780.6	0.0	0.0	0.0	1,803.7
Environmental Protection Agency	4,304.1	0.0	1,069.9	0.0	3,234.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	25,590.6	304.1	13,079.0	0.0	12,205.6	0.0	2.0	0.0	0.0
National Science Foundation	204,248.2	0.0	3,429.7	0.0	194,453.9	0.0	6,364.5	0.0	0.0
Puerto Rico	97,350.8	8,685.6	9,615.3	0.0	69,000.2	8,967.1	627.7	0.0	454.9
Department of Agriculture	10,660.7	5,686.2	0.0	0.0	4,629.4	0.0	345.1	0.0	0.0
Department of Commerce	367.6	0.0	0.0	0.0	330.6	0.0	0.0	0.0	37.0
Department of Defense, research	4,308.0	0.0	0.0	0.0	4,308.0	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	11,667.9	2,387.5	8,988.8	0.0	15.0	0.0	276.5	0.0	0.0
Department of Energy	1,051.1	0.0	0.0	0.0	1,045.0	0.0	6.1	0.0	0.0
Department of Health and Human Services	50,810.1	0.0	566.6	0.0	49,825.6	0.0	0.0	0.0	417.9
Department of Homeland Security	1,027.0	0.0	0.0	0.0	1,027.0	0.0	0.0	0.0	0.0
Department of the Interior	704.2	611.9	0.0	0.0	92.3	0.0	0.0	0.0	0.0
Environmental Protection Agency	18.9	0.0	0.0	0.0	18.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	66.0	0.0	0.0	0.0	66.0	0.0	0.0	0.0	0.0
National Science Foundation	16,669.3	0.0	60.0	0.0	7,642.3	8,967.1	0.0	0.0	0.0
Rhode Island	610,133.1	323,489.3	72,861.4	0.0	142,088.9	0.0	71,108.1	0.0	585.5
Department of Agriculture	3,160.3	62.4	0.0	0.0	3,047.8	0.0	50.0	0.0	0.0
Department of Commerce	1,870.2	0.0	0.0	0.0	1,865.2	0.0	5.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, research	44,614.3	24,436.5	6,345.6	0.0	13,716.5	0.0	115.7	0.0	0.0
Department of Defense, total development ^b	347,582.0	285,036.5	62,545.5	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	6,822.7	0.0	0.0	0.0	6,640.8	0.0	181.9	0.0	0.0
Department of Health and Human Services	155,424.4	0.0	2,457.2	0.0	82,469.5	0.0	69,988.3	0.0	509.5
Department of Homeland Security	1,095.8	30.0	7.5	0.0	1,058.4	0.0	0.0	0.0	0.0
Department of the Interior	1,135.7	870.3	0.0	0.0	260.4	0.0	5.0	0.0	0.0
Department of Transportation	111.6	0.0	35.6	0.0	0.0	0.0	0.0	0.0	76.0
Environmental Protection Agency	13,982.0	13,030.8	951.2	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	3,964.2	22.8	338.8	0.0	3,602.6	0.0	0.0	0.0	0.0
National Science Foundation	30,369.9	0.0	180.0	0.0	29,427.7	0.0	762.2	0.0	0.0
South Carolina	496,684.2	157,078.9	78,440.5	35,466.1	187,796.2	0.0	33,207.2	0.0	4,695.4
Department of Agriculture	23,632.8	12,589.3	0.0	0.0	10,425.5	0.0	400.0	0.0	218.0
Department of Commerce	8,761.8	7,221.1	56.3	0.0	759.3	0.0	29.0	0.0	696.0
Department of Defense, research	24,807.5	3,076.2	9,461.1	0.0	12,079.9	0.0	190.3	0.0	0.0
Department of Defense, total development ^b	193,022.9	111,135.4	57,876.4	437.4	9,234.9	0.0	14,117.6	0.0	221.0
Department of Energy	39,629.7	0.0	0.0	35,028.7	4,526.3	0.0	74.7	0.0	0.0
Department of Health and Human Services	146,803.4	0.0	9,163.4	0.0	134,221.3	0.0	1,616.9	0.0	1,801.9
Department of Homeland Security	14,305.4	13,977.5	327.9	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	4,970.8	3,877.4	0.0	0.0	466.8	0.0	84.9	0.0	541.6
Department of Transportation	1,228.6	0.0	11.8	0.0	0.0	0.0	0.0	0.0	1,216.8
Environmental Protection Agency	2,492.4	0.0	524.4	0.0	1,968.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,055.8	129.4	206.4	0.0	720.0	0.0	0.0	0.0	0.0
National Science Foundation	35,973.2	5,072.6	812.7	0.0	13,394.1	0.0	16,693.8	0.0	0.0
South Dakota	61,087.0	9,277.4	4,200.9	0.0	35,946.0	0.0	10,273.4	0.0	1,389.3
Department of Agriculture	9,099.6	4,283.5	0.0	0.0	4,724.1	0.0	0.0	0.0	92.0
Department of Commerce	23.0	0.0	0.0	0.0	23.0	0.0	0.0	0.0	0.0
Department of Defense, research	2,632.4	0.0	47.0	0.0	2,585.4	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	3,116.2	48.4	3,067.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	1,190.2	0.0	0.0	0.0	1,190.2	0.0	0.0	0.0	0.0
Department of Health and Human Services	23,304.2	0.0	395.4	0.0	12,635.4	0.0	10,273.4	0.0	0.0
Department of the Interior	5,487.0	4,489.0	0.0	0.0	998.0	0.0	0.0	0.0	0.0
Department of Transportation	1,297.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,297.3
National Aeronautics and Space Administration	2,078.5	456.4	2.8	0.0	1,619.2	0.0	0.0	0.0	0.0
National Science Foundation	12,858.5	0.0	687.9	0.0	12,170.6	0.0	0.0	0.0	0.0
Tennessee	1,898,594.7	108,446.9	274,819.8	0.0	526,404.9	0.0	100,804.6	776,145.9	111,972.5
Department of Agriculture	34,043.5	14,597.7	0.0	0.0	19,132.6	0.0	0.0	0.0	313.2
Department of Commerce	2,055.9	1,026.0	1,005.8	0.0	24.1	0.0	0.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, research	36,827.7	8,088.7	5,309.8	0.0	18,781.3	0.0	608.6	4,039.3	0.0
Department of Defense, total development ^b	207,120.8	41,530.3	45,175.0	0.0	10,250.4	0.0	0.0	1,880.5	108,284.6
Department of Energy	813,146.8	15,800.9	18,142.9	0.0	10,136.6	0.0	19,864.8	749,201.7	0.0
Department of Health and Human Services	487,866.0	919.1	4,464.3	0.0	406,903.6	0.0	73,909.1	951.6	718.3
Department of Homeland Security	9,677.4	0.0	0.7	0.0	800.4	0.0	0.0	8,876.3	0.0
Department of the Interior	11,498.6	9,200.8	0.0	0.0	2,029.7	0.0	34.0	0.0	234.1
Department of Transportation	27,871.3	6,332.2	3,717.1	0.0	555.9	0.0	3,658.3	11,185.5	2,422.4
Environmental Protection Agency	1,008.0	0.0	970.2	0.0	37.8	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	210,617.4	10,951.2	195,264.0	0.0	1,661.3	0.0	2,729.8	11.1	0.0
National Science Foundation	56,861.2	0.0	770.0	0.0	56,091.3	0.0	0.0	0.0	0.0
Texas	5,475,367.0	462,451.3	3,410,059.9	0.0	1,433,487.3	0.0	164,105.0	572.0	4,691.5
Department of Agriculture	101,639.8	57,940.8	0.0	0.0	40,451.0	0.0	2,000.0	0.0	1,248.0
Department of Commerce	8,219.1	628.0	3,434.9	0.0	4,041.3	0.0	84.0	0.0	31.0
Department of Defense, research	182,938.1	33,745.9	57,368.9	0.0	83,090.4	0.0	8,732.8	0.0	0.0
Department of Defense, total development ^b	3,411,487.4	230,323.3	3,129,791.2	0.0	42,325.6	0.0	8,510.7	0.0	536.6
Department of Energy	93,387.9	128.2	20,409.3	0.0	46,191.3	0.0	26,560.5	0.0	98.6
Department of Health and Human Services	1,091,443.0	67.8	29,761.1	0.0	1,006,786.9	0.0	52,953.4	223.1	1,650.7
Department of Homeland Security	23,199.5	1,854.5	12,552.2	0.0	8,538.5	0.0	0.0	254.4	0.0
Department of the Interior	25,396.7	15,454.4	6,938.9	0.0	2,829.6	0.0	173.7	0.0	0.0
Department of Transportation	5,961.5	275.0	1,830.1	0.0	1,243.9	0.0	2,506.9	0.0	105.6
Environmental Protection Agency	4,535.6	0.0	1,011.9	0.0	3,523.7	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	342,287.3	122,033.4	140,612.1	0.0	18,062.6	0.0	61,059.0	94.5	425.8
National Science Foundation	184,871.1	0.0	6,349.4	0.0	176,402.6	0.0	1,524.0	0.0	595.1
Utah	1,756,403.3	193,126.7	1,286,766.7	0.0	258,565.2	0.0	7,790.0	0.0	10,154.7
Department of Agriculture	32,914.9	22,931.6	0.0	0.0	9,903.3	0.0	0.0	0.0	80.0
Department of Commerce	1,278.3	0.0	0.0	0.0	1,278.3	0.0	0.0	0.0	0.0
Department of Defense, research	20,099.3	1,143.6	9,122.6	0.0	9,833.1	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	1,033,944.3	157,102.8	852,121.8	0.0	10,088.5	0.0	7,302.6	0.0	7,328.7
Department of Energy	16,088.9	327.5	350.0	0.0	14,970.2	0.0	0.0	0.0	441.2
Department of Health and Human Services	183,343.8	0.0	11,095.0	0.0	170,851.2	0.0	317.6	0.0	1,080.0
Department of Homeland Security	418.4	0.0	0.1	0.0	418.3	0.0	0.0	0.0	0.0
Department of the Interior	14,513.5	11,621.2	351.8	0.0	2,036.3	0.0	0.0	0.0	504.2
Department of Transportation	1,397.5	0.0	438.9	0.0	237.8	0.0	0.0	0.0	720.7
Environmental Protection Agency	18.9	0.0	0.0	0.0	18.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	413,194.5	0.0	411,369.0	0.0	1,825.6	0.0	0.0	0.0	0.0
National Science Foundation	39,191.1	0.0	1,917.6	0.0	37,103.6	0.0	169.8	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Vermont	124,444.4	5,532.7	41,600.0	0.0	75,421.0	0.0	159.3	0.0	1,731.4
Department of Agriculture	13,929.8	3,510.4	0.0	0.0	10,419.4	0.0	0.0	0.0	0.0
Department of Commerce	62.6	0.0	0.0	0.0	6.6	0.0	0.0	0.0	56.0
Department of Defense, research	8,995.9	0.0	7,859.3	0.0	1,136.5	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	31,217.6	143.0	30,533.2	0.0	0.0	0.0	0.0	0.0	541.4
Department of Energy	374.6	0.0	0.0	0.0	374.6	0.0	0.0	0.0	0.0
Department of Health and Human Services	53,173.6	0.0	2,444.0	0.0	50,407.8	0.0	159.3	0.0	162.6
Department of the Interior	2,291.2	1,879.4	0.0	0.0	330.4	0.0	0.0	0.0	81.4
Department of Transportation	894.9	0.0	4.9	0.0	0.0	0.0	0.0	0.0	890.0
Environmental Protection Agency	201.7	0.0	201.7	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	351.0	0.0	351.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	12,951.6	0.0	205.9	0.0	12,745.7	0.0	0.0	0.0	0.0
Virginia	8,292,643.9	2,738,037.4	4,475,062.9	0.0	477,672.6	163,633.5	138,917.7	291,083.3	8,236.5
Department of Agriculture	17,902.1	998.7	431.4	0.0	14,581.9	0.0	1,623.6	0.0	266.5
Department of Commerce	6,097.6	628.0	1,863.4	0.0	3,433.2	0.0	173.0	0.0	0.0
Department of Defense, research	719,166.6	183,256.8	437,513.0	0.0	61,734.4	3,608.9	23,591.4	9,462.0	0.0
Department of Defense, total development ^b	6,085,953.7	2,346,908.3	3,450,856.5	0.0	31,357.6	64.6	35,504.7	221,262.0	0.0
Department of Energy	124,739.4	5,358.8	5,186.5	0.0	17,978.2	92,314.2	3,901.8	0.0	0.0
Department of Health and Human Services	365,606.4	147.9	77,085.8	0.0	240,348.0	0.0	47,889.5	0.0	135.2
Department of Homeland Security	62,526.7	18,117.2	33,792.5	0.0	499.2	0.0	86.9	10,030.9	0.0
Department of the Interior	19,118.9	13,775.0	2,064.9	0.0	2,572.9	0.0	178.0	0.0	528.1
Department of Transportation	139,525.5	13,663.0	57,907.7	0.0	9,800.7	0.0	6,103.3	44,747.3	7,303.4
Environmental Protection Agency	34,668.6	793.9	31,149.4	0.0	2,725.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	423,576.1	149,890.6	252,269.9	0.0	8,157.4	0.0	13,254.9	0.0	3.3
National Science Foundation	293,762.3	4,499.1	124,941.8	0.0	84,484.0	67,645.8	6,610.7	5,581.0	0.0
Washington	4,931,381.2	268,038.7	3,080,802.7	0.0	772,766.5	0.0	475,986.8	273,630.5	60,156.1
Department of Agriculture	78,143.4	34,156.1	110.0	0.0	43,125.4	0.0	714.0	0.0	38.0
Department of Commerce	43,827.1	36,217.3	3.1	0.0	7,025.7	0.0	319.0	0.0	262.0
Department of Defense, research	108,329.3	1,944.2	24,925.0	0.0	76,270.5	0.0	4,351.6	838.0	0.0
Department of Defense, total development ^b	3,233,472.8	172,068.2	2,981,761.3	0.0	18,053.2	0.0	3,275.1	4,152.0	54,163.0
Department of Energy	295,952.5	1,659.2	27,018.6	0.0	23,810.2	0.0	11,612.8	231,803.1	48.6
Department of Health and Human Services	982,827.6	3,486.5	24,030.7	0.0	488,497.8	0.0	450,374.7	14,246.9	2,190.9
Department of Homeland Security	21,904.5	0.0	3.9	0.0	39.9	0.0	0.0	21,860.6	0.0
Department of the Interior	19,617.6	15,670.7	206.7	0.0	2,927.5	0.0	121.5	0.0	691.2
Department of Transportation	10,896.3	2,518.6	4,739.1	0.0	876.3	0.0	0.0	0.0	2,762.3
Environmental Protection Agency	11,422.4	0.0	734.2	0.0	10,688.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	21,519.5	292.8	10,736.9	0.0	9,760.0	0.0	0.0	729.8	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
National Science Foundation	103,468.2	25.1	6,533.1	0.0	91,691.8	0.0	5,218.2	0.0	0.0
West Virginia	239,806.5	119,064.5	64,570.4	0.0	38,000.0	0.0	12,098.8	0.0	6,072.8
Department of Agriculture	36,512.0	27,866.6	9.2	0.0	7,459.7	0.0	1,176.4	0.0	0.0
Department of Defense, research	12,187.9	0.0	6,962.6	0.0	5,085.3	0.0	140.0	0.0	0.0
Department of Defense, total development ^b	38,272.2	8,222.0	27,305.1	0.0	418.1	0.0	2,327.0	0.0	0.0
Department of Energy	88,457.4	59,858.2	26,006.2	0.0	1,055.0	0.0	1,252.3	0.0	285.6
Department of Health and Human Services	37,891.1	13,950.7	796.8	0.0	23,008.3	0.0	0.0	0.0	135.3
Department of Homeland Security	921.7	920.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	9,922.6	8,246.5	0.0	0.0	503.6	0.0	1,133.3	0.0	39.2
Department of Transportation	1,679.7	0.0	166.8	0.0	0.0	0.0	0.0	0.0	1,513.0
Environmental Protection Agency	2,537.1	0.0	2,537.1	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	664.3	0.0	636.1	0.0	20.2	0.0	8.0	0.0	0.0
National Science Foundation	10,760.5	0.0	149.3	0.0	449.7	0.0	6,061.8	0.0	4,099.7
Wisconsin	742,243.1	83,298.8	62,344.5	0.0	576,300.8	0.0	18,458.1	0.0	1,840.9
Department of Agriculture	60,208.1	43,637.7	40.6	0.0	16,355.3	0.0	174.5	0.0	0.0
Department of Commerce	3,785.0	0.0	18.2	0.0	3,716.8	0.0	50.0	0.0	0.0
Department of Defense, research	34,744.2	701.8	11,002.2	0.0	23,040.2	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	44,507.0	23,076.6	19,531.4	0.0	1,899.0	0.0	0.0	0.0	0.0
Department of Energy	53,569.0	17.5	779.3	0.0	52,772.2	0.0	0.0	0.0	0.0
Department of Health and Human Services	410,800.3	0.0	20,230.4	0.0	372,194.1	0.0	17,779.6	0.0	596.2
Department of Homeland Security	302.4	0.0	2.9	0.0	0.0	0.0	299.5	0.0	0.0
Department of the Interior	16,199.1	13,307.0	4.2	0.0	2,229.9	0.0	154.5	0.0	503.6
Department of Transportation	8,039.7	2,518.6	3,756.8	0.0	1,165.1	0.0	0.0	0.0	599.1
Environmental Protection Agency	4,548.9	0.0	1,928.9	0.0	2,620.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	8,871.5	39.6	908.4	0.0	7,923.5	0.0	0.0	0.0	0.0
National Science Foundation	96,668.1	0.0	4,141.3	0.0	92,384.8	0.0	0.0	0.0	142.0
Wyoming	37,192.8	6,798.5	1,384.6	0.0	26,163.2	0.0	1,675.5	0.0	1,171.0
Department of Agriculture	5,353.7	2,368.4	0.0	0.0	2,984.2	0.0	1.2	0.0	0.0
Department of Defense, research	540.9	0.0	0.0	0.0	540.9	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	484.4	0.0	454.4	0.0	0.0	0.0	0.0	0.0	30.0
Department of Energy	3,670.4	0.0	240.1	0.0	1,860.8	0.0	1,569.5	0.0	0.0
Department of Health and Human Services	6,460.8	0.0	0.0	0.0	6,189.0	0.0	43.9	0.0	228.0
Department of the Interior	5,622.7	4,430.1	0.0	0.0	943.7	0.0	60.9	0.0	187.9
Department of Transportation	725.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	725.1
National Aeronautics and Space Administration	372.0	0.0	244.6	0.0	127.3	0.0	0.0	0.0	0.0
National Science Foundation	13,962.9	0.0	445.5	0.0	13,517.4	0.0	0.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2011

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Offices abroad ^c	35,653.2	34,796.6	836.6	0.0	20.0	0.0	0.0	0.0	0.0
Department of Defense, research	24,522.9	24,337.1	165.9	0.0	20.0	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	11,130.2	10,459.5	670.7	0.0	0.0	0.0	0.0	0.0	0.0
Other areas ^d	4,545,110.2	4,472,779.7	1,174.9	0.0	13,548.0	0.0	40.0	0.0	57,567.5
Department of Agriculture	5,523.3	288.4	0.0	0.0	5,234.9	0.0	0.0	0.0	0.0
Department of Commerce	454.0	394.0	20.0	0.0	0.0	0.0	40.0	0.0	0.0
Department of Defense, research	27,342.4	27,061.1	60.0	0.0	221.2	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	4,496,098.9	4,437,495.3	1,085.0	0.0	0.0	0.0	0.0	0.0	57,518.6
Department of Energy	110.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	11,993.6	7,540.9	0.0	0.0	4,452.7	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	10.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	3,578.1	0.0	0.0	0.0	3,529.2	0.0	0.0	0.0	48.9

* = amount greater than \$0 but less than \$50.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel and actual intramural performance.

^b Department of Defense (DOD) development obligations have been reported in two categories, advanced technology and major systems, since volume 44 (FYs 1994–96). Geographic data for these categories are not reported; therefore, this table shows only total development.

^c Includes R&D performed or administered in foreign countries by the U.S. government.

^d Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island and other undistributed funds.

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented over 98% of total federal R&D obligations in FY 2011. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2011–13.