

TABLE 2

Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2019

(Dollars in millions)

Type of activity and fiscal year	All agencies	AID	ARC	DHS	DOC	DOD	DOE ^a	DOI	DOJ	DOL	DOT	ED	EPA	GSA	HHS ^b	HUD	NASA	NRC	NSF	OEO	SSA	USDA
All activities																						
1963	1,328.5	na	na	na	1.8	218.0	76.1	3.8	na	na	na	na	na	na	581.0	na	87.4	na	256.3	na	na	104.0
1964	1,528.6	na	na	na	1.7	258.1	79.9	5.1	na	na	na	na	na	na	683.8	na	107.6	na	277.5	na	na	115.0
1965	1,816.2	na	na	na	2.6	267.9	84.4	9.6	na	na	na	na	na	na	856.5	na	134.3	na	325.2	na	na	135.6
1966	2,163.5	na	na	na	2.8	278.0	96.9	19.1	na	na	na	na	na	na	1,109.2	na	142.2	na	374.5	na	na	141.0
1967	2,323.8	na	na	na	4.4	264.1	109.6	23.9	na	na	na	na	na	na	1,251.0	na	131.5	na	394.5	na	na	144.8
1968	2,349.8	na	na	na	8.0	243.1	119.7	28.2	na	6.6	3.7	na	na	na	1,229.4	1.7	129.8	na	422.8	12.5	na	144.2
1969	2,361.4	3.9	na	na	2.2	278.7	121.0	24.3	na	9.1	NA	na	na	na	1,261.8	1.1	127.2	na	367.0	9.3	na	155.9
1970	2,187.6	5.5	na	na	3.9	265.5	114.5	27.7	na	3.5	10.1	na	na	na	1,036.7	0.5	131.2	na	387.4	18.9	na	182.1
1971	2,343.1	19.1	na	na	7.6	249.0	105.8	22.6	na	5.2	10.8	na	27.2	na	1,142.3	0.7	134.1	na	387.7	16.4	na	214.6
1972	2,599.1	18.7	na	na	26.0	243.9	95.4	24.3	na	7.3	15.9	na	23.3	na	1,318.4	1.5	119.0	na	458.7	8.3	na	238.6
1973	2,464.4	10.7	na	na	28.4	232.9	96.2	23.7	na	6.3	15.9	na	27.7	na	1,225.0	0.9	111.4	na	419.6	8.7	na	256.8
1974	2,739.0	19.9	na	na	29.4	184.4	99.5	23.8	na	7.1	12.8	na	30.9	na	1,517.2	0.6	98.9	na	449.8	4.1	na	260.7
1975	2,809.0	12.4	na	na	25.8	190.5	124.3	28.8	na	5.5	20.8	na	38.8	na	1,469.5	2.3	108.0	*	491.5	na	na	290.7
1976	2,962.9	13.5	na	na	38.2	211.9	144.1	28.2	na	4.5	15.7	na	33.0	na	1,524.2	1.4	118.9	3.2	497.5	na	na	328.6
1977	3,358.2	24.4	na	na	32.5	267.3	208.1	29.5	na	7.2	10.9	na	46.3	na	1,691.7	4.3	121.4	4.5	567.0	na	na	343.2
1978	3,968.6	28.1	na	na	35.9	452.3	267.2	42.5	na	12.6	17.5	na	57.4	na	1,904.9	10.5	131.0	8.4	608.5	na	na	391.7
1979	4,481.2	28.5	na	na	48.0	528.7	273.9	40.1	na	11.1	11.4	0.0	67.0	na	2,220.3	4.0	143.9	6.9	674.7	na	na	422.5
1980	4,800.9	38.6	na	na	51.6	555.9	309.6	42.4	na	10.3	19.1	48.0	81.5	na	2,287.1	4.3	171.2	7.0	730.4	na	na	444.1
1981	5,078.4	31.3	na	na	51.8	726.0	310.4	34.2	na	12.9	28.5	56.1	67.6	na	2,372.1	3.0	183.5	7.4	702.0	na	na	491.4
1982	5,194.1	50.4	na	na	40.7	857.3	288.2	28.3	na	8.4	12.0	35.6	83.8	na	2,343.0	2.6	176.9	5.0	732.2	na	na	529.7
1983	5,705.5	43.4	na	na	51.0	940.3	320.0	32.0	na	6.4	25.4	34.9	50.3	na	2,612.1	1.5	213.6	4.7	803.9	na	na	566.0
1984	6,358.8	56.3	na	na	105.8	954.6	349.4	32.2	na	3.1	13.6	43.6	51.9	na	2,945.9	0.2	227.6	4.6	962.4	na	na	607.5
1985	7,316.9	57.0	na	na	81.2	1,061.1	454.5	33.1	na	3.4	7.6	69.6	65.3	na	3,453.2	0.2	266.5	5.4	1,105.9	na	na	653.0
1986	7,491.6	44.3	na	na	70.3	1,206.2	424.6	40.9	na	3.7	13.6	74.0	70.8	na	3,547.9	0.1	290.0	3.8	1,080.6	na	na	620.9
1987	8,634.7	53.3	na	na	88.8	1,278.8	482.0	39.4	na	8.3	15.3	280.8	74.4	na	4,210.6	0.1	327.6	3.9	1,096.5	na	na	674.7
1988	9,219.0	48.5	na	na	82.2	1,377.6	547.7	41.6	na	8.0	24.2	255.6	66.2	na	4,503.9	0.1	388.2	3.6	1,130.1	na	na	741.7
1989	10,200.6	65.3	na	na	77.3	1,486.5	610.7	56.2	na	6.5	25.1	269.6	86.3	na	4,935.2	0.0	490.0	4.3	1,365.9	na	na	721.7
1990	10,725.2	47.4	na	na	117.6	1,342.3	725.8	60.5	na	8.6	42.6	260.1	93.6	16.8	5,222.7	0.1	544.7	4.6	1,475.5	na	na	762.1
1991	12,254.0	31.9	na	na	124.7	1,540.7	903.1	82.8	na	5.8	44.1	354.1	116.0	11.3	5,848.0	*	643.5	5.4	1,674.6	na	na	867.9
1992	13,415.8	27.6	na	na	132.5	1,511.9	1,175.3	79.7	na	9.2	58.3	402.3	150.1	4.5	6,310.1	0.2	736.0	5.9	1,863.3	na	na	949.1
1993	13,451.6	12.0	na	na	109.8	1,835.3	1,233.2	77.7	na	6.6	98.8	156.4	152.8	0.0	6,123.8	0.4	786.9	4.8	1,904.9	na	na	948.3
1994	14,006.9	12.8	na	na	164.4	1,893.2	637.8	64.3	na	4.8	67.0	170.9	144.8	0.2	7,003.6	0.8	806.5	6.3	2,083.7	na	na	945.8
1995	14,598.6	167.6	na	na	183.4	1,852.8	640.9	54.5	na	6.0	80.3	187.9	164.8	5.1	7,153.3	1.7	894.8	6.0	2,246.5	na	na	953.0
1996	14,586.9	107.7	na	na	210.9	1,787.7	658.5	44.7	10.2	5.8	62.2	175.3	103.3	0.1	7,470.5	1.9	826.2	3.8	2,241.6	na	0.7	876.0

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1997	15,263.2	26.2	na	na	222.3	1,714.9	650.0	58.2	16.9	4.6	75.0	171.2	166.0	*	7,981.5	2.7	889.5	5.1	2,297.7	na	0.4	981.0	
1998	16,270.7	33.9	0.3	na	206.9	1,712.4	636.3	65.9	19.9	6.2	75.3	242.6	201.3	0.0	8,698.3	0.7	994.1	5.2	2,498.4	na	5.3	867.9	
1999	18,133.5	30.0	0.4	na	312.6	1,805.2	655.1	82.1	22.9	10.6	107.2	326.2	180.6	0.0	9,890.2	1.0	1,100.8	4.5	2,653.0	na	5.0	946.3	
2000	19,953.6	33.5	0.4	na	303.7	2,008.7	706.0	87.9	19.4	14.9	126.6	183.3	152.3	0.0	11,374.3	1.6	1,088.1	5.0	2,758.6	na	6.0	1,083.4	
2001	22,584.7	31.0	0.4	na	371.3	2,163.6	772.5	99.3	22.0	15.7	160.4	188.3	189.8	0.0	12,897.1	1.7	1,201.6	5.0	3,254.6	na	8.9	1,201.5	
2002	24,570.6	34.2	0.2	na	317.3	2,365.4	741.6	96.4	25.0	45.7	134.7	145.7	165.9	0.0	14,575.2	1.0	1,325.9	4.2	3,497.4	na	7.5	1,087.4	
2003	26,727.1	26.7	0.3	2.2	392.1	2,533.6	763.2	95.5	38.1	44.3	151.7	229.3	145.9	0.0	15,911.3	1.2	1,337.7	2.8	3,895.9	na	9.1	1,146.3	
2004	27,411.9	27.1	0.1	9.8	324.0	2,474.0	807.6	109.1	21.6	32.6	150.0	232.5	136.3	0.0	16,534.0	2.1	1,239.1	4.2	4,146.4	na	5.3	1,156.0	
2005	28,169.7	27.4	0.2	40.4	406.2	2,394.2	945.2	71.0	27.0	35.5	140.4	307.8	162.5	0.0	17,256.4	1.1	1,158.1	3.7	3,953.4	na	7.7	1,231.3	
2006	28,423.0	27.4	0.1	26.4	550.9	2,579.5	906.4	92.1	22.4	30.0	171.0	250.2	117.2	0.0	17,218.1	0.5	1,003.1	3.8	4,152.7	na	6.4	1,264.8	
2007	28,413.3	29.9	0.2	33.2	343.3	2,828.2	834.8	89.1	6.5	31.3	111.5	269.0	93.1	na	17,584.3	0.4	576.6	3.1	4,318.5	na	6.0	1,254.1	
2008	28,586.5	25.7	0.2	86.8	326.9	2,835.2	1,115.8	97.8	3.6	0.5	127.2	130.8	78.6	na	17,316.5	0.4	740.0	2.2	4,441.7	na	3.8	1,252.8	
2009 ^c	35,873.6	28.3	0.3	89.1	425.1	3,191.9	1,705.3	106.7	0.0	*	187.5	152.8	66.6	na	20,869.8	0.2	788.1	1.3	6,944.8	na	8.4	1,307.4	
2010 ^c	35,944.4	15.2	*	88.0	534.4	3,563.0	1,764.7	119.1	7.5	0.0	250.9	323.2	72.5	na	21,473.1	0.4	678.9	6.0	5,642.7	na	14.2	1,390.9	
2011	31,761.8	22.4	0.0	84.0	301.2	3,940.1	1,181.8	113.6	8.0	0.0	230.9	228.3	64.3	na	18,265.5	1.6	653.9	4.0	5,206.2	na	4.7	1,451.4	
2012	31,216.4	66.4	0.5	69.1	267.0	3,654.4	1,036.8	107.5	31.7	0.0	194.5	175.6	70.7	na	17,997.6	0.3	1,093.8	4.0	5,220.7	na	3.7	1,222.1	
2013	29,406.9	89.0	0.0	61.0	270.7	3,384.0	1,079.6	51.5	7.0	0.0	127.8	180.1	48.5	na	16,903.3	4.5	1,005.9	4.6	5,047.7	na	5.3	1,136.5	
2014	31,158.8	55.7	0.3	46.4	328.8	3,721.0	1,534.5	80.0	6.9	0.0	169.5	93.0	72.7	na	17,527.9	0.1	1,088.4	5.3	5,112.8	na	3.5	1,312.0	
2015	30,562.9	50.0	*	73.2	340.0	3,502.8	1,287.6	79.5	4.2	0.0	144.1	123.8	44.3	na	17,024.5	1.1	1,136.8	4.0	5,314.9	na	5.9	1,426.3	
2016	31,648.9	35.5	0.4	46.7	307.4	3,758.2	1,097.0	72.9	2.8	0.0	140.8	94.6	71.5	na	18,198.8	2.5	1,167.3	3.4	5,294.5	na	6.0	1,348.6	
2017	32,439.7	49.1	0.2	38.8	408.1	4,178.3	995.1	55.0	1.5	0.0	135.1	84.4	30.8	na	19,052.6	1.2	1,101.8	2.8	5,358.7	na	5.3	941.0	
2018	35,303.8	56.2	0.3	35.4	396.9	4,632.8	1,376.0	47.6	1.0	0.0	64.9	197.9	20.3	na	20,722.6	3.0	1,137.8	1.7	5,630.2	na	8.3	970.7	
2019	38,084.8	57.2	0.6	20.4	424.0	4,679.4	1,369.6	63.6	7.7	0.0	248.5	176.9	9.4	na	22,637.6	1.6	1,077.7	0.6	6,057.6	na	9.0	1,243.4	
R&D																							
1963	829.5	na	na	na	1.5	218.0	68.3	3.8	na	na	na	na	na	na	332.9	na	59.8	na	104.6	na	na	40.6	
1964	975.6	na	na	na	1.1	258.1	70.5	5.0	na	na	na	na	na	na	399.2	na	78.2	na	115.8	na	na	47.5	
1965	1,095.0	na	na	na	2.1	267.9	74.8	9.5	na	na	na	na	na	na	441.9	na	100.6	na	139.2	na	na	59.1	
1966	1,252.1	na	na	na	2.1	278.0	83.2	18.7	na	na	na	na	na	na	507.3	na	107.4	na	192.5	na	na	62.9	
1967	1,301.2	na	na	na	3.4	264.1	89.7	23.9	na	na	na	na	na	na	577.0	na	109.0	na	170.2	na	na	64.0	
1968	1,398.3	na	na	na	6.7	243.1	101.8	27.8	na	6.6	3.7	na	na	na	619.1	1.0	126.1	na	187.7	12.5	na	62.2	
1969	1,474.7	3.9	na	na	1.7	278.7	103.1	23.5	na	9.1	NA	na	na	na	667.1	1.0	122.3	na	191.5	9.3	na	63.6	
1970	1,446.6	5.5	na	na	3.2	265.5	101.4	27.1	na	3.5	10.1	na	na	na	614.9	0.5	127.4	na	201.2	18.9	na	67.4	
1971	1,551.4	17.1	na	na	6.9	249.0	95.9	21.3	na	3.3	8.0	na	17.0	na	695.7	0.7	128.5	na	216.9	16.4	na	74.8	
1972	1,853.1	13.5	na	na	23.6	243.9	86.9	23.0	na	7.3	12.4	na	17.7	na	879.3	1.5	112.4	na	334.7	8.3	na	88.6	
1973	1,870.7	8.4	na	na	24.9	232.9	85.2	22.2	na	5.0	15.2	na	18.6	na	903.8	0.9	102.6	na	348.5	8.7	na	93.8	

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1974	2,087.3	18.4	na	na	26.6	184.4	94.6	22.2	na	5.6	11.5	na	24.1	na	1,130.8	0.6	92.0	na	376.3	3.4	na	96.7
1975	2,249.3	8.3	na	na	22.2	190.5	119.2	27.2	na	4.0	18.1	na	33.8	na	1,207.4	2.3	100.2	0.0	405.6	na	na	110.5
1976	2,434.2	10.7	na	na	29.0	211.9	138.1	25.7	na	3.0	14.9	na	29.3	na	1,298.3	1.4	106.8	3.2	437.7	na	na	124.2
1977	2,808.4	20.2	na	na	32.2	267.3	187.2	27.4	na	7.2	9.6	na	45.0	na	1,455.9	4.3	114.1	3.8	492.1	na	na	142.2
1978	3,394.5	24.9	na	na	35.0	452.3	251.1	34.3	na	12.6	16.4	na	53.8	na	1,661.7	10.5	125.3	8.4	532.9	na	na	175.3
1979	3,882.0	28.0	na	na	46.5	528.7	256.4	35.3	na	11.1	11.4	0.0	61.2	na	1,970.8	4.0	137.2	6.5	591.0	na	na	193.8
1980	4,170.5	38.6	na	na	50.4	555.9	279.6	38.8	na	10.3	19.1	48.0	76.9	na	2,031.6	4.3	161.3	6.1	637.9	na	na	211.8
1981	4,426.4	31.3	na	na	51.1	700.5	281.8	30.2	na	12.9	27.8	56.1	64.3	na	2,121.3	3.0	173.9	7.0	623.7	na	na	241.4
1982	4,569.0	50.4	na	na	39.9	813.7	265.2	21.5	na	8.4	11.7	35.6	78.1	na	2,120.9	0.5	167.7	5.0	693.9	na	na	256.5
1983	5,049.2	43.4	na	na	50.1	913.4	296.6	20.8	na	6.4	25.1	34.9	45.3	na	2,370.3	1.1	199.1	4.7	764.1	na	na	273.9
1984	5,499.2	56.3	na	na	75.6	827.8	318.1	32.2	na	3.1	13.2	43.6	47.3	na	2,693.3	0.2	214.9	4.6	896.0	na	na	273.1
1985	6,305.2	57.0	na	na	79.7	908.9	375.9	32.9	na	3.4	7.2	69.6	61.9	na	3,111.8	0.2	252.8	4.9	1,038.3	na	na	300.7
1986	6,517.3	44.3	na	na	68.3	1,055.0	351.0	40.9	na	3.7	13.3	72.2	68.0	na	3,224.1	0.1	273.8	3.8	1,008.6	na	na	290.3
1987	7,308.4	53.3	na	na	87.6	1,099.1	378.5	39.4	na	8.3	13.2	85.2	67.1	na	3,850.6	0.1	311.4	3.9	1,014.5	na	na	296.0
1988	7,801.9	48.5	na	na	76.6	1,194.4	419.1	39.1	na	8.0	21.3	69.6	64.1	na	4,146.0	0.1	364.0	3.6	1,026.4	na	na	321.3
1989	8,639.2	65.3	na	na	69.4	1,220.7	484.9	52.8	na	6.5	21.9	68.6	77.9	na	4,530.8	0.0	463.8	4.3	1,236.2	na	na	336.1
1990	9,158.3	47.4	na	na	104.5	1,197.0	553.8	57.8	na	8.6	39.2	71.1	87.1	0.0	4,798.8	0.1	504.2	4.6	1,335.1	na	na	349.2
1991	10,298.0	31.9	na	na	64.7	1,324.4	714.5	70.2	na	5.8	33.9	94.5	104.4	0.0	5,383.7	*	584.3	5.4	1,471.0	na	na	409.2
1992	11,128.7	27.6	na	na	70.2	1,316.6	726.3	67.6	na	9.0	36.4	104.6	135.4	0.0	5,884.1	0.2	637.9	5.9	1,637.3	na	na	469.5
1993	11,252.6	12.0	na	na	58.4	1,588.2	709.9	69.8	na	6.2	75.9	94.8	142.7	0.0	5,710.5	0.4	659.2	4.8	1,651.5	na	na	468.2
1994	12,028.6	12.8	na	na	85.5	1,604.8	604.9	63.8	na	4.5	57.5	49.2	134.7	0.0	6,515.8	0.8	700.9	6.3	1,711.7	na	na	475.3
1995	12,318.4	25.4	na	na	102.6	1,611.5	606.7	54.0	na	5.9	72.4	67.5	149.0	0.0	6,628.7	1.7	772.1	6.0	1,768.3	na	na	446.7
1996	12,482.6	20.0	na	na	115.1	1,602.8	635.3	43.4	9.8	5.8	55.8	68.6	89.6	0.0	6,921.1	1.9	739.5	3.8	1,773.9	na	0.7	395.5
1997	13,186.1	11.7	na	na	117.1	1,521.6	630.4	57.6	16.9	4.6	71.1	64.2	150.8	0.0	7,385.7	2.7	794.4	5.1	1,865.4	na	0.4	486.4
1998	14,050.1	10.0	0.3	na	102.1	1,548.8	615.2	65.9	19.9	6.2	38.1	98.3	182.9	0.0	8,041.2	0.7	860.8	5.2	2,019.4	na	5.3	429.8
1999	15,658.2	10.7	0.4	na	141.8	1,690.7	636.6	82.1	22.5	9.3	70.9	108.4	164.5	0.0	9,119.0	1.0	967.2	4.5	2,122.0	na	5.0	501.6
2000	17,386.6	15.9	0.4	na	136.1	1,833.6	698.6	87.9	19.2	13.8	66.0	66.9	136.9	0.0	10,513.2	1.6	929.8	5.0	2,289.7	na	6.0	565.9
2001	19,514.9	14.6	0.2	na	156.1	1,959.3	762.3	99.3	21.9	14.7	84.8	71.9	169.5	0.0	11,956.3	1.7	981.6	5.0	2,542.1	na	8.9	664.7
2002	21,346.6	18.9	0.2	na	134.8	2,105.5	733.1	96.4	25.0	45.7	69.1	31.0	145.1	0.0	13,434.2	1.0	1,163.6	4.2	2,727.8	na	7.5	603.8
2003	22,891.0	12.8	0.3	1.8	182.1	2,228.7	756.7	95.5	38.1	44.0	82.7	92.8	134.2	0.0	14,382.2	1.2	1,160.5	2.8	3,015.9	na	4.6	654.1
2004	23,833.2	13.2	0.1	8.4	194.8	2,150.0	802.8	109.1	21.5	32.6	77.5	110.0	127.4	0.0	15,156.1	2.1	1,180.5	4.2	3,171.9	na	3.1	667.7
2005	24,700.1	13.4	0.2	37.3	225.7	2,163.0	941.1	69.3	26.9	35.3	47.1	154.8	149.9	0.0	15,877.8	1.1	1,089.4	3.7	3,132.2	na	6.7	725.0
2006	25,013.2	13.4	0.1	24.2	283.5	2,442.9	905.0	88.4	22.2	30.0	48.4	127.1	106.4	0.0	16,002.3	0.5	1,003.1	3.8	3,164.4	na	4.9	742.8
2007	25,125.0	29.9	0.2	29.7	214.4	2,653.2	832.6	86.1	6.3	31.3	55.8	126.5	87.4	na	16,317.5	0.4	576.6	3.1	3,336.2	na	4.1	733.6
2008	25,610.7	25.7	0.2	85.2	159.7	2,520.1	1,110.3	97.6	3.6	0.5	47.8	92.9	73.5	na	16,381.4	0.4	740.0	2.2	3,550.0	na	2.0	717.5

TABLE 2

Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2019

(Dollars in millions)

Type of activity and fiscal year	All agencies	AID	ARC	DHS	DOC	DOD	DOE ^a	DOI	DOJ	DOL	DOT	ED	EPA	GSA	HHS ^b	HUD	NASA	NRC	NSF	OEO	SSA	USDA	
2009 ^c	32,081.1	28.3	0.3	88.8	177.3	2,969.1	1,691.4	104.7	0.0	*	110.3	97.7	61.5	na	19,807.2	0.2	788.1	1.3	5,423.8	na	6.7	724.3	
2010 ^c	31,000.5	15.2	*	87.9	259.9	3,461.2	1,755.4	119.1	7.5	0.0	159.9	262.6	71.6	na	19,307.5	0.4	674.0	6.0	4,037.7	na	11.0	763.7	
2011	28,203.3	22.4	0.0	84.0	193.2	3,116.6	1,177.0	113.6	8.0	0.0	124.5	178.2	59.3	na	17,378.8	1.6	653.8	4.0	4,309.8	na	2.6	775.8	
2012	27,699.5	66.4	0.5	69.1	160.4	2,771.1	1,028.4	107.1	31.7	0.0	98.5	132.3	65.3	na	17,151.7	0.3	1,093.8	4.0	4,258.6	na	1.3	659.0	
2013	26,156.4	89.0	0.0	57.6	177.9	2,508.7	1,072.2	50.8	7.0	0.0	55.5	152.0	42.2	na	16,071.5	4.5	1,005.9	4.6	4,263.4	na	2.1	591.5	
2014	27,652.5	55.7	0.3	37.0	214.6	2,787.6	1,384.3	79.4	6.9	0.0	81.2	67.0	68.6	na	16,639.5	0.1	1,088.4	5.3	4,404.3	na	1.9	730.4	
2015	27,105.7	50.0	*	63.3	216.8	2,678.8	1,144.7	78.4	4.2	0.0	70.2	107.5	40.3	na	16,165.6	1.1	1,136.8	4.0	4,570.3	na	4.0	769.8	
2016	28,532.8	35.5	0.4	46.5	187.6	3,191.0	947.2	72.8	2.8	0.0	76.7	77.2	68.1	na	17,296.2	2.5	1,167.3	3.4	4,568.6	na	3.8	785.2	
2017	29,805.2	49.1	0.2	38.7	325.4	3,653.2	846.9	55.0	1.5	0.0	70.1	59.4	28.3	na	18,142.8	1.2	1,101.8	2.8	4,567.3	na	3.4	858.3	
2018	32,312.6	56.2	0.3	35.3	289.8	3,992.8	1,232.7	47.6	1.0	0.0	48.0	173.2	18.2	na	19,639.7	3.0	1,137.8	1.7	4,766.4	na	7.4	861.4	
2019	35,125.5	57.2	0.6	20.4	348.8	4,679.4	1,262.8	63.6	0.0	0.0	160.9	157.8	7.8	na	21,387.3	1.6	1,077.7	0.6	4,975.1	na	8.3	915.6	
R&D plant																							
1963	105.9	na	na	na	0.0	0.0	2.6	0.1	na	na	na	na	na	na	39.2	na	13.4	na	50.6	na	na	0.0	
1964	100.8	na	na	na	0.0	0.0	4.0	0.0	na	na	na	na	na	na	39.9	na	9.1	na	47.8	na	na	0.0	
1965	126.2	na	na	na	0.0	0.0	3.8	*	na	na	na	na	na	na	54.8	na	8.4	na	56.0	na	na	3.2	
1966	114.8	na	na	na	0.0	0.0	7.4	0.2	na	na	na	na	na	na	48.5	na	7.4	na	49.3	na	na	2.0	
1967	111.3	na	na	na	0.3	0.0	13.8	0.0	na	na	na	na	na	na	38.1	na	5.0	na	52.1	na	na	2.0	
1968	96.1	na	na	na	0.2	0.0	11.9	0.0	na	0.0	0.0	na	na	na	36.9	0.0	0.0	na	45.3	0.0	na	1.9	
1969	54.5	0.0	na	na	0.0	0.0	11.4	*	na	0.0	NA	na	na	na	20.5	0.0	0.0	na	21.4	0.0	na	1.2	
1970	44.8	0.0	na	na	*	0.0	7.1	0.0	na	0.0	0.0	na	na	na	20.0	0.0	0.0	na	16.5	0.0	na	1.1	
1971	29.9	0.0	na	na	0.0	0.0	4.8	0.0	na	0.0	0.0	na	0.0	na	15.2	0.0	0.2	na	9.7	0.0	na	0.0	
1972	36.9	0.0	na	na	0.0	0.0	4.1	0.0	na	0.0	0.0	na	0.0	na	22.2	0.0	0.6	na	10.0	0.0	na	0.0	
1973	43.3	0.0	na	na	0.3	0.0	5.6	0.2	na	0.0	0.0	na	0.0	na	26.7	0.0	3.0	na	7.4	0.0	na	0.0	
1974	29.0	0.0	na	na	0.0	0.0	4.2	0.0	na	0.0	0.0	na	0.0	na	14.5	0.0	0.1	na	10.2	0.0	na	0.0	
1975	44.8	0.0	na	na	0.0	0.0	4.2	0.0	na	0.0	0.0	na	0.0	na	22.9	0.0	0.1	0.0	17.6	na	na	0.0	
1976	23.9	0.0	na	na	1.0	0.0	5.6	0.0	na	0.0	0.0	na	0.0	na	11.4	0.0	0.1	0.0	5.9	na	na	0.0	
1977	37.9	0.0	na	na	0.0	0.0	17.5	0.0	na	0.0	0.5	na	0.0	na	12.5	0.0	*	0.0	7.3	na	na	0.0	
1978	34.3	0.0	na	na	0.0	0.0	13.4	0.0	na	0.0	*	na	*	na	9.9	0.0	0.0	0.0	11.0	na	na	0.0	
1979	32.1	0.5	na	na	0.0	0.0	9.1	0.0	na	0.0	0.0	0.0	0.0	na	7.5	0.0	0.2	0.0	14.7	na	na	0.0	
1980	37.8	0.0	na	na	0.0	0.0	20.6	0.0	na	0.0	0.0	0.0	0.0	na	4.4	0.0	0.2	0.0	12.6	na	na	0.0	
1981	27.7	0.0	na	na	0.0	1.1	19.6	0.0	na	0.0	0.0	0.0	0.0	na	2.0	0.0	0.1	0.0	4.9	na	na	0.0	
1982	31.2	0.0	na	na	0.0	0.5	18.8	0.0	na	0.0	0.0	0.0	1.4	na	5.4	0.0	0.2	0.0	4.9	na	na	0.0	
1983	37.5	0.0	na	na	0.0	0.0	17.2	0.0	na	0.0	0.0	0.0	0.1	na	1.5	0.0	1.5	0.0	7.7	na	na	9.6	
1984	50.2	0.0	na	na	0.0	0.0	29.5	0.0	na	0.0	0.0	0.0	0.1	na	0.7	0.0	0.3	0.0	10.1	na	na	9.6	
1985	113.9	0.0	na	na	0.0	*	77.7	0.0	na	0.0	0.0	0.0	0.1	na	11.4	0.0	0.2	0.0	14.9	na	na	9.6	

TABLE 2

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(Dollars in millions)

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1971 ^d	28.7	0.0	na	na	0.0	0.0	2.3	0.1	na	0.0	0.0	na	0.0	na	13.9	0.0	0.0	na	12.1	0.0	na	0.3
1972	26.3	0.0	na	na	0.0	0.0	1.9	0.0	na	0.0	0.0	na	0.0	na	20.9	0.0	0.0	na	3.0	0.0	na	0.5
1973	13.4	0.0	na	na	0.0	0.0	2.3	0.1	na	0.0	0.0	na	0.0	na	9.4	0.0	0.0	na	1.6	0.0	na	0.0
1974	3.5	0.0	na	na	0.0	0.0	0.0	*	na	0.0	0.0	na	0.0	na	0.4	0.0	0.0	na	3.1	0.0	na	0.0
1975	5.0	0.0	na	na	0.1	0.0	0.0	0.0	na	0.0	0.0	na	0.0	na	4.9	0.0	0.0	0.0	*	na	na	0.0
1976	3.2	0.0	na	na	0.3	0.0	0.0	0.0	na	0.0	0.0	na	0.0	na	0.0	0.0	0.0	0.0	3.0	na	na	0.0
1977	3.3	0.0	na	na	0.0	0.0	0.4	0.0	na	0.0	0.0	na	0.0	na	0.0	0.0	0.0	0.0	2.9	na	na	0.0
1978	4.9	0.0	na	na	0.0	0.0	1.3	*	na	0.0	0.0	na	0.0	na	0.0	0.0	0.0	0.0	3.5	na	na	0.0
1979	6.7	0.0	na	na	0.0	0.0	3.5	0.0	na	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	3.2	na	na	0.0
1980	3.8	0.0	na	na	0.0	0.0	0.9	0.0	na	0.0	0.0	0.0	0.1	na	0.0	0.0	0.0	0.0	2.8	na	na	0.0
1981	4.6	0.0	na	na	0.0	0.2	1.1	0.0	na	0.0	0.0	0.0	*	na	0.0	0.0	0.0	0.0	3.2	na	na	0.0
1982	0.8	0.0	na	na	0.0	*	0.8	0.0	na	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0	na	na	0.0
1983	2.5	0.0	na	na	0.0	*	2.3	0.0	na	0.0	0.0	0.0	0.2	na	0.0	0.0	0.0	0.0	0.0	na	na	0.0
1984	1.9	0.0	na	na	1.6	0.3	0.0	0.0	na	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0	na	na	0.0
1985	4.9	0.0	na	na	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.1	4.8	na	na	0.0
1986	5.0	0.0	na	na	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	5.0	na	na	0.0
1987	13.7	0.0	na	na	0.0	0.0	0.0	0.0	na	0.0	0.0	5.0	0.0	na	0.0	0.0	0.0	0.0	8.7	na	na	0.0
1988	13.3	0.0	na	na	2.5	0.0	0.0	0.4	na	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	10.4	na	na	0.0
1989	16.9	0.0	na	na	1.6	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	15.3	na	na	0.0
1990	19.2	0.0	na	na	4.5	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	na	na	0.0
1991	32.8	0.0	na	na	4.7	0.1	0.0	0.0	na	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8	na	na	0.0
1992	39.0	0.0	na	na	7.0	0.0	1.3	0.0	na	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.2	na	na	0.5
1993	33.2	0.0	na	na	4.0	0.0	0.0	0.0	na	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.2	na	na	0.9
1994	48.7	0.0	na	na	3.3	21.8	0.0	0.0	na	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.2	na	na	0.6
1995	51.6	0.0	na	na	3.3	29.8	0.2	0.0	na	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7	na	na	0.6
1996	49.0	0.2	na	na	11.0	18.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.4	na	0.0	0.8
1997	29.9	0.0	na	na	1.0	11.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.3	na	0.0	0.6
1998	22.8	0.0	0.0	na	8.8	0.3	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	na	0.0	0.3
1999	47.0	0.0	0.0	na	13.2	18.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6	na	0.0	0.7
2000	59.7	0.0	0.0	na	21.6	0.1	0.0	0.0	0.0	0.0	22.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	15.1	na	0.0	0.7
2001	67.4	0.0	0.0	na	16.5	0.0	0.0	0.0	0.0	0.0	34.8	0.0	0.0	0.0	0.0	0.0	0.4	0.0	14.9	na	0.0	0.8
2002	109.7	0.0	0.0	na	27.8	15.3	0.0	0.0	0.0	0.0	25.5	0.0	0.0	0.0	24.2	0.0	0.0	0.0	16.4	na	0.0	0.5
2003	86.1	0.0	0.0	0.0	6.5	8.5	0.0	0.0	0.0	0.0	27.9	0.0	0.0	0.0	26.1	0.0	0.1	0.0	16.2	na	0.0	1.0
2004	82.8	0.0	0.0	0.0	8.9	16.9	0.0	0.0	0.0	0.0	24.7	0.0	0.0	0.0	19.2	0.0	0.0	0.0	12.4	na	0.0	0.7
2005	40.0	0.0	0.0	0.0	0.0	8.6	0.0	0.3	0.0	0.0	21.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	na	0.0	0.8

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2006	16.5	0.0	0.0	0.0	0.0	11.5	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	na	0.0	0.4
2007	13.3	0.0	0.0	0.0	0.1	9.6	0.0	*	0.0	0.0	2.1	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0	na	0.0	1.5
2008	3.7	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	2.3	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0	na	0.0	0.9
2009 ^c	4.6	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	3.6	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0	na	0.0	0.8
2010 ^c	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	na	2.1	0.0	0.0	0.0	0.0	na	0.0	0.6
2011	3.8	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	3.4	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0	na	0.0	0.2
2012	3.9	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	3.7	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0	na	0.0	0.1
2013	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	na	0.7	0.0	0.0	0.0	0.0	na	0.0	0.0
2014	11.1	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	9.6	0.0	0.0	na	0.7	0.0	0.0	0.0	0.0	na	0.0	0.0
2015	4.4	0.0	0.0	0.0	0.0	0.0	*	0.0	0.0	0.0	3.6	0.0	0.0	na	0.7	0.0	0.0	0.0	0.0	na	0.0	0.0
2016	4.0	0.0	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	3.0	0.0	0.0	na	0.8	0.0	0.0	0.0	0.0	na	0.0	0.2
2017	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0	na	0.0	0.0
2018	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0	na	0.0	0.0
2019	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	na	0.1	0.0	0.0	0.0	0.0	na	0.0	0.0
Fellowships, traineeships, and training grants																						
1966 ^d	365.6	na	na	na	0.0	NA	3.2	0.0	na	na	na	na	na	na	289.9	na	25.0	na	47.5	na	na	0.0
1967	447.2	na	na	na	0.0	NA	3.7	0.0	na	na	na	na	na	na	379.2	na	15.0	na	49.4	na	na	0.0
1968	440.9	na	na	na	0.0	NA	3.6	0.0	na	0.0	0.0	na	na	na	387.0	0.0	0.9	na	49.4	0.0	na	0.0
1969	436.3	0.0	na	na	0.0	NA	5.5	0.0	na	0.0	NA	na	na	na	375.7	0.0	1.3	na	53.8	0.0	na	0.0
1970	429.4	0.0	na	na	0.0	NA	5.0	0.0	na	0.0	0.0	na	na	na	369.6	0.0	2.1	na	52.7	0.0	na	0.0
1971	421.0	0.0	na	na	*	0.0	2.6	*	na	0.6	2.8	na	10.1	na	361.4	0.0	1.0	na	42.3	0.0	na	0.0
1972	387.9	0.0	na	na	0.4	0.0	2.0	0.0	na	0.0	3.5	na	5.6	na	346.6	0.0	1.1	na	28.8	0.0	na	0.0
1973	287.2	0.0	na	na	0.6	0.0	2.3	0.0	na	0.0	0.7	na	9.2	na	256.8	0.0	1.3	na	16.4	0.0	na	0.0
1974	326.6	0.0	na	na	*	0.0	0.5	0.0	na	0.0	1.3	na	6.8	na	301.5	0.0	1.2	na	14.4	0.7	na	0.0
1975	201.3	0.0	na	na	*	0.0	0.7	0.0	na	0.0	2.7	na	5.0	na	181.7	0.0	1.3	0.0	9.7	na	na	0.0
1976	174.9	0.0	na	na	0.0	0.0	0.1	0.0	na	0.0	0.8	na	3.6	na	155.6	0.0	1.3	*	13.4	na	na	0.0
1977	184.7	0.0	na	na	0.0	0.0	0.2	0.0	na	0.0	0.8	na	1.3	na	165.9	0.0	1.4	0.1	14.8	na	na	0.0
1978	205.9	0.6	na	na	0.0	0.0	0.7	3.2	na	0.0	0.6	na	3.6	na	184.2	0.0	1.3	*	11.7	na	na	0.0
1979	204.9	0.0	na	na	0.0	0.0	1.9	0.3	na	0.0	0.0	0.0	4.5	na	182.3	0.0	1.8	0.0	14.1	na	na	0.0
1980	210.1	0.0	na	na	0.0	0.0	0.0	1.4	na	0.0	0.0	0.0	4.5	na	187.6	0.0	2.8	0.0	13.8	na	na	0.0
1981	205.4	0.0	na	na	0.0	0.0	0.0	0.9	na	0.0	0.0	0.0	2.4	na	183.5	0.0	3.7	0.1	14.8	na	na	0.0
1982	176.6	0.0	na	na	0.0	0.0	0.3	0.0	na	0.0	0.4	0.0	2.5	na	151.9	0.0	4.2	0.0	17.5	na	na	0.0
1983	189.6	0.0	na	na	0.2	0.7	0.2	0.0	na	0.0	0.3	0.0	2.6	na	164.0	0.0	5.2	0.0	16.2	na	na	0.2
1984	194.9	0.0	na	na	0.1	0.0	0.6	0.0	na	0.0	0.4	0.0	1.8	na	164.6	0.0	5.3	0.0	21.7	na	na	0.2
1985	253.1	0.0	na	na	0.1	0.8	0.4	0.0	na	0.0	0.4	0.0	2.1	na	210.9	0.0	5.6	0.0	25.8	na	na	7.0

TABLE 2

Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2019

(Dollars in millions)

Type of activity and fiscal year	All agencies	AID	ARC	DHS	DOC	DOD	DOE ^a	DOI	DOJ	DOL	DOT	ED	EPA	GSA	HHS ^b	HUD	NASA	NRC	NSF	OEO	SSA	USDA
1971 ^d	99.7	0.0	na	na	0.2	0.0	0.0	1.1	na	1.2	0.0	na	0.0	na	40.2	0.0	0.0	na	56.9	0.0	na	0.0
1972	83.3	5.2	na	na	1.5	0.0	0.0	1.2	na	0.0	0.0	na	0.0	na	40.7	0.0	0.0	na	34.7	0.0	na	0.0
1973	39.0	2.3	na	na	0.0	0.0	0.0	1.3	na	0.9	0.0	na	0.0	na	20.2	0.0	0.0	na	14.2	0.0	na	0.0
1974	87.0	1.5	na	na	0.5	0.0	0.0	1.6	na	1.4	0.0	na	0.0	na	64.2	0.0	0.0	na	17.8	0.0	na	0.0
1975	46.4	4.2	na	na	1.8	0.0	0.0	1.6	na	1.5	0.0	na	0.0	na	37.3	0.0	0.0	0.0	0.0	na	na	0.0
1976	74.5	2.8	na	na	4.4	0.0	0.0	2.4	na	1.5	0.0	na	0.0	na	41.8	0.0	0.0	0.0	21.6	na	na	0.0
1977	75.9	4.1	na	na	0.0	0.0	2.5	1.8	na	0.0	0.0	na	0.0	na	42.0	0.0	0.0	0.7	24.8	na	na	0.0
1978	74.4	0.0	na	na	0.0	0.0	0.3	5.0	na	0.0	0.3	na	0.0	na	45.0	0.0	0.0	0.0	23.8	na	na	0.0
1979	92.5	0.0	na	na	0.0	0.0	*	4.4	na	0.0	0.0	0.0	1.3	na	52.8	0.0	0.0	0.0	29.4	na	na	4.7
1980	91.5	0.0	na	na	0.0	0.0	5.6	2.3	na	0.0	0.0	0.0	0.0	na	60.1	0.0	0.0	0.4	23.2	na	na	0.0
1981	92.7	0.0	na	na	0.0	7.1	0.0	3.1	na	0.0	0.7	0.0	0.9	na	60.0	0.0	0.0	0.0	21.0	na	na	0.0
1982	80.1	0.0	na	na	0.0	4.8	*	6.8	na	0.0	0.0	0.0	1.7	na	61.3	2.0	0.0	0.0	3.5	na	na	0.0
1983	94.8	0.0	na	na	0.0	3.2	3.7	11.2	na	0.0	0.0	*	1.6	na	73.6	0.4	0.0	0.0	1.2	na	na	0.0
1984	112.6	0.0	na	na	20.3	3.7	0.6	0.0	na	0.0	0.0	0.0	2.7	na	83.9	0.0	0.0	0.0	1.5	na	na	0.0
1985	119.2	0.0	na	na	*	1.8	0.4	0.3	na	0.0	0.0	0.0	1.1	na	112.5	0.0	0.0	0.0	3.0	na	na	0.0
1986	111.1	0.0	na	na	*	2.1	0.0	0.0	na	0.0	0.0	0.0	0.0	na	106.1	0.0	0.0	0.0	2.8	na	na	0.0
1987	236.9	0.0	na	na	0.0	5.9	0.0	0.0	na	0.0	0.0	108.1	4.3	na	113.1	0.0	0.0	0.0	5.5	na	na	0.0
1988	171.8	0.0	na	na	0.0	2.5	0.2	2.1	na	0.0	0.0	54.8	0.0	na	109.0	0.0	0.0	0.0	3.4	na	na	0.0
1989	197.7	0.0	na	na	0.0	1.8	0.0	3.3	na	0.0	0.0	80.2	0.0	na	109.5	0.0	0.0	0.0	2.9	na	na	0.0
1990	143.9	0.0	na	na	1.0	0.0	0.5	2.7	na	0.0	0.0	30.1	3.1	0.0	102.2	0.0	0.0	0.0	4.3	na	na	0.0
1991	192.8	0.0	na	na	29.4	0.0	0.2	12.5	na	0.0	0.0	32.1	3.5	0.0	108.7	0.0	0.0	0.0	6.4	na	na	0.0
1992	160.2	0.0	na	na	28.2	0.0	0.0	12.1	na	0.0	1.5	36.5	4.0	0.0	69.3	0.0	0.0	0.0	7.7	na	na	0.9
1993	66.8	0.0	na	na	15.0	*	0.0	7.8	na	0.0	0.8	4.0	1.9	0.0	26.6	0.0	0.0	0.0	9.8	na	na	0.8
1994	136.6	0.0	na	na	43.1	2.8	6.1	0.2	na	0.0	0.0	7.4	0.9	0.0	63.5	0.0	0.0	0.0	12.1	na	na	0.3
1995	264.0	107.3	na	na	55.6	5.7	15.5	0.0	na	0.0	0.0	6.2	0.0	0.0	58.7	0.0	0.0	0.0	14.9	na	na	0.0
1996	219.0	57.1	na	na	64.3	1.3	5.9	0.0	0.0	0.0	0.0	5.9	0.0	0.0	71.0	0.0	0.0	0.0	13.3	na	0.0	0.1
1997	170.8	10.0	na	na	63.2	1.2	6.3	0.0	0.0	0.0	0.0	6.5	0.0	0.0	76.0	0.0	0.0	0.0	2.2	na	0.0	5.6
1998	237.9	21.7	0.0	na	53.4	1.5	8.8	0.0	0.0	0.0	31.5	4.7	0.0	0.0	108.0	0.0	0.0	0.0	1.2	na	0.0	7.2
1999	314.7	17.5	0.0	na	94.8	0.1	8.5	0.0	0.0	0.0	32.2	7.3	0.0	0.0	138.7	0.0	0.0	0.0	11.9	na	0.0	3.7
2000	314.2	15.6	0.0	na	82.2	0.1	0.0	0.0	0.0	0.1	33.9	0.0	0.0	0.0	171.4	0.0	0.0	0.0	1.8	na	0.0	9.1
2001	331.9	14.5	0.0	na	77.0	1.8	0.8	0.0	0.0	0.0	34.1	0.0	0.0	0.0	194.5	0.0	0.0	0.0	4.2	na	0.0	5.0
2002	431.9	14.2	0.0	na	78.2	4.5	0.0	0.0	0.0	0.0	34.5	0.0	0.0	0.0	289.0	0.0	0.0	0.0	8.3	na	0.0	3.2
2003	428.8	13.7	0.0	0.0	105.9	1.2	0.0	0.0	0.0	0.1	36.5	0.0	0.0	0.0	262.5	0.0	0.0	0.0	6.1	na	0.0	2.8
2004	421.3	13.7	0.0	0.0	30.3	0.8	0.0	0.0	0.0	*	42.3	0.0	0.0	0.0	325.9	0.0	0.0	0.0	7.8	na	0.0	0.4
2005	388.9	13.9	0.0	0.0	33.0	1.2	0.0	1.2	0.0	0.0	42.7	0.0	0.0	0.0	289.2	0.0	0.0	0.0	6.8	na	0.0	1.0

TABLE 2

Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2019

(Dollars in millions)

Type of activity and fiscal year	All agencies	AID	ARC	DHS	DOC	DOD	DOE ^a	DOI	DOJ	DOL	DOT	ED	EPA	GSA	HHS ^b	HUD	NASA	NRC	NSF	OEO	SSA	USDA	
2006	323.1	13.9	0.0	0.0	45.7	0.9	0.0	1.0	0.0	0.0	60.3	0.0	0.0	0.0	191.4	0.0	0.0	0.0	8.5	na	1.1	0.4	
2007	221.7	0.0	0.0	0.0	29.2	0.9	0.0	1.4	0.0	0.0	*	0.0	0.0	na	166.0	0.0	0.0	0.0	23.0	na	1.3	0.0	
2008	303.8	0.0	0.0	0.0	5.3	153.6	0.0	*	0.0	0.0	0.0	0.0	0.0	na	116.4	0.0	0.0	0.0	27.5	na	1.1	0.0	
2009 ^c	244.8	0.0	0.0	*	0.0	67.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	na	145.9	0.0	0.0	0.0	30.6	na	1.0	0.0	
2010 ^c	361.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.0	0.0	na	311.0	0.0	0.0	0.0	33.7	na	2.7	0.0	
2011	208.1	0.0	0.0	0.0	0.0	64.3	0.0	0.0	0.0	0.0	23.9	0.0	0.0	na	86.5	0.0	0.0	0.0	32.1	na	1.4	*	
2012	142.5	0.0	0.0	0.0	0.0	20.6	0.0	0.0	0.0	0.0	14.9	0.0	0.0	na	75.0	0.0	0.0	0.0	30.7	na	1.3	0.0	
2013	132.0	0.0	0.0	0.0	0.0	11.4	0.0	0.0	0.0	0.0	4.6	0.0	0.0	na	81.4	0.0	0.0	0.0	33.1	na	1.2	0.3	
2014	138.2	0.0	0.0	0.0	0.0	13.4	0.0	0.0	0.0	0.0	3.3	0.0	0.0	na	83.9	0.0	0.0	0.0	34.4	na	1.3	1.9	
2015	138.0	0.0	0.0	0.8	0.0	11.4	0.0	0.0	0.0	0.0	4.0	0.0	0.0	na	82.8	0.0	0.0	0.0	36.2	na	1.5	1.2	
2016	128.4	0.0	0.0	0.0	0.0	15.6	0.0	0.0	0.0	0.0	0.1	0.0	0.0	na	74.8	0.0	0.0	0.0	34.8	na	1.5	1.6	
2017	96.4	0.0	0.0	0.0	0.0	20.3	0.0	0.0	0.0	0.0	0.8	0.0	0.0	na	68.5	0.0	0.0	0.0	0.5	na	1.4	5.0	
2018	120.6	0.0	0.0	0.0	0.0	24.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	na	89.2	0.0	0.0	0.0	0.2	na	0.0	5.6	
2019	96.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na	88.6	0.0	0.0	0.0	0.0	na	0.0	7.5	
Other S&E activities ^e																							
1963	393.1	na	na	na	0.3	0.0	5.3	*	na	na	na	na	na	na	208.9	na	14.1	na	101.1	na	na	63.4	
1964	452.2	na	na	na	0.6	0.0	5.4	*	na	na	na	na	na	na	244.6	na	20.2	na	113.9	na	na	67.5	
1965	595.0	na	na	na	0.6	0.0	5.9	*	na	na	na	na	na	na	359.8	na	25.4	na	130.1	na	na	73.3	
1966	431.0	na	na	na	0.7	0.0	3.1	0.2	na	na	na	na	na	na	263.4	na	2.3	na	85.2	na	na	76.1	
1967	464.0	na	na	na	0.7	0.0	2.5	*	na	na	na	na	na	na	256.7	na	2.4	na	122.8	na	na	78.8	
1968	414.5	na	na	na	1.0	0.0	2.5	0.4	na	0.0	*	na	na	na	186.4	0.7	2.8	na	140.5	0.0	na	80.1	
1969	395.9	0.0	na	na	0.5	*	1.0	0.9	na	0.0	NA	na	na	na	198.4	0.1	3.7	na	100.2	0.0	na	91.1	
1970	266.8	0.0	na	na	0.7	*	1.0	0.6	na	0.0	0.0	na	na	na	32.2	0.0	1.7	na	117.0	0.0	na	113.5	
1971	212.4	2.0	na	na	0.5	0.0	0.3	0.0	na	0.1	0.0	na	0.0	na	15.9	0.0	4.2	na	49.9	0.0	na	139.5	
1972	211.6	0.0	na	na	0.6	0.0	0.5	0.0	na	0.0	0.0	na	0.0	na	8.6	0.0	4.9	na	47.5	0.0	na	149.5	
1973	210.8	0.0	na	na	2.7	0.0	0.8	0.0	na	0.4	0.0	na	0.0	na	8.0	0.0	4.5	na	31.4	0.0	na	163.0	
1974	205.7	0.0	na	na	2.2	0.0	0.2	0.0	na	0.0	0.0	na	0.0	na	5.7	0.0	5.7	na	27.9	0.0	na	164.0	
1975	262.3	0.0	na	na	1.7	0.0	0.1	0.0	na	*	0.0	na	0.0	na	15.3	0.0	6.4	*	58.6	na	na	180.2	
1976	252.2	0.0	na	na	3.6	0.0	0.3	0.1	na	0.0	0.0	na	0.0	na	17.1	0.0	10.7	0.0	16.0	na	na	204.4	
1977	248.0	0.0	na	na	0.3	0.0	0.3	0.3	na	0.0	0.0	na	0.0	na	15.4	0.0	5.9	0.0	24.9	na	na	201.0	
1978	254.5	2.6	na	na	0.9	0.0	0.3	0.0	na	0.0	0.2	na	0.0	na	4.1	0.0	4.4	0.0	25.6	na	na	216.4	
1979	263.0	0.0	na	na	1.5	0.0	3.0	0.0	na	0.0	0.0	0.0	0.1	na	6.9	0.0	4.7	0.4	22.4	na	na	224.0	
1980	287.2	0.0	na	na	1.2	0.0	2.8	0.0	na	0.0	0.0	0.0	0.0	na	3.4	0.0	6.9	0.5	40.2	na	na	232.3	
1981	321.5	0.0	na	na	0.7	17.1	7.9	*	na	0.0	*	0.0	*	na	5.3	0.0	5.7	0.4	34.4	na	na	250.0	
1982	336.4	0.0	na	na	0.8	38.2	3.1	0.0	na	0.0	0.0	0.0	0.2	na	3.6	*	4.8	0.0	12.4	na	na	273.2	

TABLE 2

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Type of activity and fiscal year	All agencies	AID	ARC	DHS	DOC	DOD	DOE ^a	DOI	DOJ	DOL	DOT	ED	EPA	GSA	HHS ^b	HUD	NASA	NRC	NSF	OEO	SSA	USDA
1983	331.8	0.0	na	na	0.6	22.9	*	*	na	0.0	0.0	0.0	0.5	na	2.8	0.1	7.8	0.0	14.8	na	na	282.3
1984	500.1	0.0	na	na	8.2	122.8	0.7	0.0	na	*	0.0	0.0	*	na	3.5	0.0	7.1	0.0	33.0	na	na	324.7
1985	520.5	0.0	na	na	1.4	149.5	0.1	0.0	na	*	*	0.0	0.0	na	6.5	0.0	7.9	0.3	19.0	na	na	335.7
1986	506.0	0.0	na	na	0.8	148.5	*	0.0	na	0.0	*	0.0	0.0	na	9.1	0.0	7.9	0.0	22.9	na	na	316.8
1987	554.8	0.0	na	na	0.6	171.4	0.0	0.0	na	0.0	1.8	21.4	1.1	na	10.3	0.0	6.9	0.0	32.7	na	na	308.6
1988	719.6	0.0	na	na	0.5	179.3	0.0	0.0	na	0.0	2.9	116.4	0.0	na	9.6	0.0	7.8	0.0	55.3	na	na	347.9
1989	759.9	0.0	na	na	3.8	206.1	0.1	0.0	na	0.0	3.1	96.6	0.0	na	16.5	0.0	12.0	0.0	71.8	na	na	349.9
1990	755.5	0.0	na	na	6.8	145.2	0.0	0.0	na	0.0	3.3	130.4	0.0	0.0	19.2	0.0	17.5	0.0	73.0	na	na	360.0
1991	957.4	0.0	na	na	21.8	200.2	0.0	0.1	na	0.0	3.5	171.6	0.1	0.0	16.6	0.0	22.1	0.0	132.1	na	na	389.4
1992	991.8	0.0	na	na	22.9	192.6	0.0	0.0	na	0.0	8.3	197.0	0.1	0.0	19.2	0.0	56.5	0.0	87.2	na	na	408.0
1993	923.9	0.0	na	na	29.9	244.9	0.0	0.0	na	*	9.0	0.0	0.1	0.0	40.5	0.0	75.7	0.0	111.2	na	na	412.6
1994	934.0	0.0	na	na	27.3	237.5	0.0	0.2	na	*	1.0	15.3	0.0	0.0	20.2	0.0	41.7	0.0	170.8	na	na	419.9
1995	948.8	32.1	na	na	16.1	195.6	0.0	0.3	na	0.0	1.5	17.9	0.0	0.0	35.3	0.0	49.5	0.0	177.3	na	na	423.2
1996	951.7	30.2	na	na	15.7	155.2	0.2	0.6	0.0	0.0	1.4	20.1	0.0	0.0	39.0	0.0	49.0	0.0	226.7	na	0.0	413.6
1997	923.3	4.5	na	na	31.1	159.4	0.1	0.1	0.0	0.0	0.7	19.5	0.0	0.0	31.1	0.0	52.8	0.0	215.7	na	0.0	408.3
1998	1,042.4	2.2	0.0	na	36.7	153.4	0.4	0.0	0.0	0.0	1.9	27.6	0.0	0.0	36.4	0.0	94.1	0.0	279.6	na	0.0	410.0
1999	1,110.0	1.8	0.0	na	48.8	82.1	0.4	0.0	0.0	0.0	*	96.3	0.0	0.0	41.5	0.0	91.1	0.0	324.3	na	0.0	423.6
2000	1,191.1	2.1	0.0	na	52.9	156.6	0.0	0.0	0.0	0.0	0.0	82.0	0.0	0.0	44.8	0.0	112.5	0.0	273.5	na	0.0	466.7
2001	1,460.6	1.9	0.0	na	98.1	189.8	0.0	0.0	0.0	0.0	0.0	83.0	0.0	0.0	21.5	0.0	116.1	0.0	472.7	na	0.0	477.4
2002	1,496.4	1.2	0.0	na	61.9	224.8	0.0	0.0	0.0	0.0	*	77.6	0.0	0.0	28.2	0.0	123.0	0.0	529.8	na	0.0	449.9
2003	1,664.4	0.2	0.0	0.0	79.3	269.8	0.0	0.0	0.0	*	0.0	74.3	0.0	0.0	27.8	0.0	116.8	0.0	632.5	na	4.5	459.1
2004	1,592.7	0.2	0.0	0.0	56.2	298.4	0.0	0.0	0.0	0.0	0.0	64.5	0.0	0.0	29.3	0.0	0.0	0.0	687.5	na	2.2	454.3
2005	1,485.7	0.2	0.0	0.0	88.3	215.1	0.0	0.2	0.0	0.0	25.3	82.9	0.0	0.0	45.0	0.0	0.0	0.0	565.8	na	1.0	462.0
2006	1,637.2	0.2	0.0	0.0	154.1	111.2	0.0	0.2	0.0	*	49.3	53.0	0.0	0.0	147.3	0.0	0.0	0.0	642.2	na	0.0	479.6
2007	1,614.4	0.0	0.0	0.0	44.2	161.3	0.0	0.2	0.0	*	47.3	50.0	0.0	na	265.8	0.0	0.0	0.0	568.9	na	0.0	476.6
2008	1,473.8	0.0	0.0	0.0	105.7	155.0	0.0	0.2	0.0	0.0	68.1	11.6	0.0	na	10.6	0.0	0.0	0.0	638.3	na	0.0	484.4
2009 ^c	1,769.1	0.0	0.0	0.0	189.5	148.7	0.0	0.2	0.0	0.0	65.2	17.6	0.0	na	4.4	0.0	0.0	0.0	798.9	na	0.0	544.6
2010 ^c	1,609.4	0.0	0.0	0.0	220.5	101.8	0.0	0.0	0.0	0.0	65.6	20.4	0.0	na	9.8	0.0	0.0	0.0	626.6	na	0.0	564.7
2011	2,000.6	0.0	0.0	0.0	57.0	756.2	0.0	0.0	0.0	0.0	56.3	15.4	0.0	na	3.4	0.0	0.0	0.0	538.4	na	0.0	573.8
2012	2,019.1	0.0	0.0	0.0	62.6	862.7	0.0	0.0	0.0	0.0	66.3	14.2	0.0	na	6.4	0.0	0.0	0.0	499.5	na	0.0	507.5
2013	1,947.9	0.0	0.0	0.0	64.4	863.8	0.0	0.0	0.0	0.0	56.8	11.2	0.0	na	4.8	0.0	0.0	0.0	474.9	na	1.5	470.5
2014	1,616.0	0.0	0.0	0.0	69.6	919.5	0.0	0.0	0.0	0.0	65.8	10.3	0.0	na	4.7	0.0	0.0	0.0	29.7	na	0.0	516.4
2015	1,597.1	0.0	0.0	0.0	82.0	812.6	0.1	1.1	0.0	0.0	58.4	1.4	0.0	na	5.6	0.0	0.0	0.0	49.7	na	0.1	586.2
2016	1,239.3	0.0	0.0	0.0	73.9	551.6	0.0	0.2	0.0	0.0	52.9	1.3	0.0	na	5.4	0.0	0.0	0.0	55.2	na	*	498.7
2017	731.8	0.0	0.0	0.0	77.8	504.8	0.0	0.0	0.0	0.0	53.3	8.9	0.0	na	1.9	0.0	0.0	0.0	73.6	na	*	11.5

TABLE 2

Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2019

(Dollars in millions)

Type of activity and fiscal year	All agencies	AID	ARC	DHS	DOC	DOD	DOE ^a	DOI	DOJ	DOL	DOT	ED	EPA	GSA	HHS ^b	HUD	NASA	NRC	NSF	OEO	SSA	USDA
2018	843.9	0.0	0.0	0.0	85.8	616.0	0.0	0.0	0.0	0.0	7.0	11.0	0.0	na	38.2	0.0	0.0	0.0	76.7	na	0.0	9.2
2019	460.8	0.0	0.0	0.0	58.6	0.0	0.0	0.0	0.0	0.0	73.3	11.1	0.0	na	8.0	0.0	0.0	0.0	87.1	na	0.0	222.7

* = amount > \$0 but < \$50,000. na = not applicable; agency did not exist as such or data were not collected at this level of detail. NA = not available; data were not provided by agency.

AID = Agency for International Development; ARC = Appalachian Regional Commission; DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOJ = Department of Justice; DOL = Department of Labor; DOT = Department of Transportation; ED = Department of Education; EPA = Environmental Protection Agency; GSA = General Services Administration; HHS = Department of Health and Human Services; HUD = Department of Housing and Urban Development; NASA = National Aeronautics and Space Administration; NRC = Nuclear Regulatory Commission; NSF = National Science Foundation; OEO = Office of Economic Opportunity; S&E = science and engineering; SSA = Social Security Administration; USDA = Department of Agriculture.

^a Data shown for FYs 1963–74 and FYs 1975–77 represent obligations of the Atomic Energy Commission and the Energy Research Development Commission, respectively.

^b Data shown for FYs 1963–79 represent obligations of the Department of Health, Education, and Welfare. Also, HHS's Centers for Disease Control and Prevention data were excluded for FYs 2009 and 2010 due to their poor quality.

^c Includes American Recovery and Reinvestment Act of 2009 obligations.

^d Data collected before this year are not separately identified but are included under Other S&E activities.

^e Other S&E activities include data collected on Fellowships, traineeships, and training grants before FY 1966, Facilities for instruction in S&E before FY 1971, and General support for S&E before FY 1971.

Note(s):

Detail may not add to total because of rounding. Some trend shifts are related to institutional reclassification. For example, beginning in FY 1978, two laboratories that were formerly considered academically administered federally funded research and development centers (FFRDCs) became part of their respective institutions: the Applied Physics Laboratory (Johns Hopkins University) and the Applied Research Laboratory (Pennsylvania State University). Data for these laboratories are included in academic figures beginning in FY 1978. Similarly, Draper Laboratories separated from the Massachusetts Institute of Technology as of FY 1974 to become an independent nonprofit institution; data for this laboratory are included in the Massachusetts Institute of Technology's figures prior to FY 1974.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions.