

Table H3. Shares of federal R&D by State: Page 1 of 2
fiscal years 1970-2005 (Percent of total federal R&D)

State	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Alabama	2.32%	2.30%	2.17%	2.21%	2.16%	1.92%	1.84%	1.74%	1.66%	1.82%	1.67%	1.53%	1.54%	1.74%	1.91%	1.91%	2.37%	2.49%	2.46%	2.75%
Alaska	0.28%	0.38%	0.28%	0.25%	0.14%	0.19%	0.18%	0.16%	0.19%	0.16%	0.14%	0.16%	0.11%	0.16%	0.11%	0.13%	0.10%	0.09%	0.10%	0.12%
Arizona	0.48%	0.57%	0.55%	0.55%	0.58%	0.61%	0.59%	0.60%	0.75%	0.83%	1.12%	1.10%	0.72%	1.22%	0.90%	0.94%	0.77%	0.78%	0.68%	0.84%
Arkansas	0.06%	0.13%	0.08%	0.10%	0.08%	0.12%	0.13%	0.11%	0.16%	0.13%	0.10%	0.10%	0.12%	0.08%	0.08%	0.08%	0.08%	0.09%	0.10%	0.10%
California	25.53%	21.58%	21.33%	23.01%	23.77%	25.80%	26.81%	25.19%	23.15%	23.66%	21.47%	22.18%	25.10%	22.01%	21.70%	22.81%	22.85%	25.00%	26.65%	26.56%
Colorado	1.80%	1.72%	2.29%	2.51%	1.87%	1.41%	1.24%	1.39%	1.54%	1.59%	2.02%	1.98%	1.56%	1.23%	1.36%	1.35%	3.19%	2.74%	2.54%	2.73%
Connecticut	1.05%	0.96%	1.02%	1.14%	1.35%	1.41%	1.15%	1.22%	1.15%	1.20%	1.56%	1.48%	1.26%	1.92%	1.59%	1.53%	1.12%	1.20%	1.08%	0.97%
Delaware	0.11%	0.08%	0.10%	0.24%	0.06%	0.05%	0.04%	0.06%	0.04%	0.05%	0.07%	0.08%	0.09%	0.05%	0.15%	0.07%	0.06%	0.06%	0.06%	0.05%
District of Columbia	3.06%	3.08%	2.79%	3.02%	3.12%	3.04%	2.81%	3.06%	3.04%	2.78%	2.72%	2.85%	2.69%	3.14%	4.33%	4.43%	4.54%	4.00%	5.11%	3.13%
Florida	5.54%	5.82%	6.35%	5.75%	4.71%	4.62%	4.11%	4.25%	3.69%	3.37%	3.87%	4.19%	4.92%	3.38%	2.86%	2.55%	2.90%	4.23%	3.86%	3.85%
Georgia	0.48%	0.51%	0.44%	0.39%	0.40%	0.42%	0.44%	0.46%	0.60%	0.65%	0.57%	0.59%	0.60%	0.61%	0.58%	0.60%	0.51%	0.67%	0.61%	0.65%
Hawaii	0.29%	0.26%	0.29%	0.28%	0.30%	0.25%	0.23%	0.15%	0.17%	0.15%	0.14%	0.15%	0.12%	0.19%	0.12%	0.12%	0.11%	0.12%	0.15%	0.16%
Idaho	0.63%	0.60%	0.48%	0.51%	0.36%	0.43%	0.44%	0.60%	0.54%	0.66%	0.64%	0.39%	0.40%	0.62%	0.48%	0.55%	0.56%	0.45%	0.50%	0.34%
Illinois	2.16%	2.11%	2.13%	2.16%	2.08%	2.07%	2.18%	2.35%	2.42%	2.14%	2.23%	1.94%	1.68%	1.66%	1.76%	1.80%	1.62%	1.65%	1.61%	1.63%
Indiana	0.60%	0.48%	0.60%	0.48%	0.54%	0.48%	0.44%	0.43%	0.41%	0.43%	0.54%	0.51%	0.51%	0.55%	0.56%	0.47%	0.57%	0.62%	0.55%	0.64%
Iowa	0.22%	0.22%	0.23%	0.23%	0.26%	0.25%	0.24%	0.25%	0.27%	0.31%	0.41%	0.45%	0.38%	0.25%	0.32%	0.31%	0.44%	0.33%	0.35%	0.32%
Kansas	0.11%	0.16%	0.19%	0.18%	0.17%	0.17%	0.15%	0.15%	0.17%	0.48%	1.17%	1.41%	1.74%	0.25%	0.24%	0.29%	0.30%	0.26%	0.22%	0.21%
Kentucky	0.14%	0.15%	0.19%	0.22%	0.18%	0.18%	0.24%	0.23%	0.24%	0.16%	0.36%	0.32%	0.27%	0.24%	0.13%	0.14%	0.11%	0.11%	0.12%	0.12%
Louisiana	0.95%	0.60%	0.62%	0.53%	0.44%	0.53%	0.61%	0.66%	0.70%	0.79%	0.69%	1.04%	0.70%	0.49%	0.31%	0.25%	0.18%	0.20%	0.23%	0.37%
Maine	0.09%	0.09%	0.10%	0.06%	0.06%	0.06%	0.07%	0.08%	0.10%	0.08%	0.09%	0.07%	0.07%	0.08%	0.09%	0.07%	0.07%	0.32%	0.07%	0.11%
Maryland	6.99%	7.78%	8.03%	8.62%	8.96%	8.53%	8.78%	8.57%	8.25%	8.30%	8.35%	7.90%	7.98%	8.98%	9.55%	9.22%	8.86%	7.42%	7.71%	8.06%
Massachusetts	4.98%	5.64%	5.80%	5.58%	6.75%	6.41%	6.17%	6.19%	6.52%	7.35%	6.86%	7.32%	7.62%	6.65%	6.86%	6.82%	6.29%	7.07%	4.86%	4.77%
Michigan	1.07%	1.19%	1.12%	0.92%	1.11%	1.29%	1.07%	1.31%	1.40%	0.94%	1.28%	1.10%	1.05%	1.06%	1.13%	1.04%	0.89%	0.83%	0.73%	1.12%
Minnesota	0.71%	0.68%	0.76%	0.70%	0.73%	0.64%	0.73%	0.77%	0.68%	0.71%	0.87%	0.93%	1.03%	1.15%	1.49%	1.47%	1.00%	0.91%	1.00%	0.97%
Mississippi	0.19%	0.30%	0.36%	0.41%	0.52%	0.32%	0.36%	0.44%	0.35%	0.37%	0.38%	0.39%	0.36%	0.49%	0.37%	0.38%	0.30%	0.40%	0.36%	0.39%
Missouri	1.91%	3.79%	4.03%	3.53%	2.19%	1.73%	1.92%	2.65%	3.15%	2.76%	2.79%	2.46%	2.50%	1.50%	1.55%	1.42%	1.32%	1.11%	1.11%	2.02%
Montana	0.08%	0.11%	0.11%	0.12%	0.08%	0.15%	0.14%	0.20%	0.15%	0.16%	0.16%	0.14%	0.12%	0.09%	0.06%	0.05%	0.05%	0.05%	0.06%	0.06%
Nebraska	0.07%	0.07%	0.08%	0.08%	0.09%	0.11%	0.11%	0.10%	0.13%	0.11%	0.11%	0.10%	0.09%	0.11%	0.08%	0.07%	0.09%	0.09%	0.10%	0.09%
Nevada	1.34%	1.11%	0.94%	0.91%	0.69%	0.84%	0.91%	0.82%	0.82%	0.86%	0.79%	1.04%	1.11%	1.75%	1.28%	1.32%	1.03%	0.98%	0.95%	0.81%
New Hampshire	0.18%	0.23%	0.14%	0.18%	0.17%	0.19%	0.17%	0.14%	0.27%	0.35%	0.17%	0.19%	0.14%	0.20%	0.27%	0.27%	0.26%	0.15%	0.11%	0.16%
New Jersey	4.82%	4.74%	4.62%	3.77%	2.68%	2.34%	2.46%	2.61%	2.35%	2.51%	2.62%	2.49%	2.57%	3.43%	3.73%	3.74%	3.51%	2.07%	2.19%	2.22%
New Mexico	3.28%	3.24%	2.93%	2.98%	3.28%	3.22%	3.34%	3.68%	4.13%	3.84%	3.73%	4.02%	4.13%	5.13%	5.14%	5.33%	5.20%	4.04%	4.40%	3.99%
New York	8.14%	7.29%	6.51%	5.88%	6.22%	5.71%	5.44%	5.23%	5.12%	5.03%	5.17%	4.92%	4.78%	6.68%	6.22%	6.54%	6.31%	5.47%	4.88%	4.88%
North Carolina	0.43%	0.53%	0.53%	0.62%	0.64%	0.61%	0.66%	0.92%	0.74%	0.79%	0.78%	0.78%	0.75%	0.81%	0.89%	1.01%	0.97%	1.05%	1.09%	0.92%
North Dakota	0.06%	0.06%	0.07%	0.06%	0.06%	0.07%	0.07%	0.08%	0.12%	0.12%	0.14%	0.12%	0.10%	0.07%	0.09%	0.07%	0.07%	0.05%	0.07%	0.06%
Ohio	3.08%	3.34%	3.17%	3.00%	3.31%	3.10%	3.05%	3.12%	3.35%	3.80%	3.63%	3.54%	2.85%	3.03%	3.30%	3.20%	3.11%	3.44%	3.36%	3.26%
Oklahoma	0.19%	0.17%	0.17%	0.20%	0.17%	0.18%	0.15%	0.20%	0.17%	0.25%	0.32%	0.25%	0.18%	0.18%	0.15%	0.17%	0.14%	0.18%	0.20%	0.20%
Oregon	0.23%	0.27%	0.33%	0.37%	0.34%	0.41%	0.41%	0.35%	0.37%	0.35%	0.34%	0.32%	0.29%	0.28%	0.33%	0.31%	0.27%	0.28%	0.31%	0.32%
Pennsylvania	3.60%	3.57%	4.03%	3.72%	3.84%	4.13%	4.02%	3.50%	3.89%	4.03%	3.63%	3.53%	3.22%	3.06%	2.71%	2.75%	2.55%	3.08%	3.11%	3.31%
Rhode Island	0.20%	0.33%	0.42%	0.37%	0.43%	0.41%	0.50%	0.48%	0.47%	0.51%	0.51%	0.55%	0.66%	0.69%	0.71%	0.75%	0.77%	0.67%	0.59%	0.51%
South Carolina	0.13%	0.16%	0.16%	0.16%	0.21%	0.15%	0.16%	0.29%	0.48%	0.44%	0.30%	0.34%	0.45%	0.40%	0.62%	0.26%	0.25%	0.26%	0.27%	0.38%
South Dakota	0.05%	0.07%	0.07%	0.07%	0.04%	0.04%	0.04%	0.04%	0.03%	0.04%	0.04%	0.03%	0.05%	0.03%	0.03%	0.03%	0.03%	0.02%	0.02%	0.02%
Tennessee	1.34%	1.28%	1.23%	1.43%	1.55%	1.70%	2.13%	2.42%	2.61%	2.46%	2.66%	2.90%	2.09%	1.19%	1.44%	1.20%	1.20%	1.36%	1.09%	1.03%
Texas	4.24%	3.81%	3.94%	3.84%	3.71%	3.73%	4.02%	3.43%	3.86%	3.55%	3.06%	3.13%	2.90%	3.64%	3.46%	3.44%	3.85%	4.18%	4.44%	5.33%
Utah	0.40%	0.36%	0.36%	0.39%	0.41%	0.43%	0.49%	0.56%	0.64%	0.75%	0.82%	0.92%	0.79%	0.69%	0.55%	0.52%	0.56%	0.79%	0.82%	0.86%
Vermont	0.06%	0.09%	0.14%	0.10%	0.15%	0.16%	0.19%	0.15%	0.09%	0.06%	0.12%	0.06%	0.10%	0.06%	0.08%	0.07%	0.08%	0.07%	0.11%	0.10%
Virginia	2.30%	2.73%	3.21%	3.33%	3.70%	3.88%	3.63%	3.33%	3.47%	3.65%	3.33%	3.30%	3.51%	5.95%	5.36%	5.10%	5.51%	4.26%	4.93%	4.71%
Washington	2.76%	3.95%	3.37%	3.57%	4.24%	4.35%	3.84%	4.11%	3.78%	3.34%	3.58%	3.40%	3.05%	1.85%	2.09%	2.18%	2.28%	3.41%	3.13%	2.92%
West Virginia	0.14%	0.21%	0.18%	0.19%	0.15%	0.25%	0.26%	0.28%	0.34%	0.42%	0.55%	0.46%	0.25%	0.27%	0.18%	0.16%	0.19%	0.24%	0.24%	0.21%
Wisconsin	0.57%	0.60%	0.48%	0.47%	0.49%	0.42%	0.42%	0.39%	0.46%	0.40%	0.41%	0.40%	0.36%	0.37%	0.41%	0.42%	0.36%	0.37%	0.39%	0.43%
Wyoming	0.05%	0.05%	0.06%	0.06%	0.06%	0.09%	0.09%	0.10%	0.16%	0.15%	0.19%	0.18%	0.07%	0.07%	0.08%	0.05%	0.03%	0.04%	0.05%	0.06%

SOURCE: National Science Foundation, Federal Funds for R&D Historical Tables, 2003, and Federal Funds for R&D, FY 2005-2007, 2008. Percentages do not add to 100% because total includes outlying areas and offices abroad.

Table H3. Shares of federal R&D by State:
fiscal years 1970-2005

(Percent of total federal R&D)

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Alabama	2.98%	3.24%	3.73%	3.66%	2.81%	2.87%	3.27%	3.21%	2.83%	2.47%	2.41%	3.09%	3.26%	3.16%	2.89%	2.55%
Alaska	0.16%	0.16%	0.14%	0.14%	0.36%	0.14%	0.14%	0.15%	0.15%	0.15%	0.19%	0.26%	0.63%	0.40%	0.36%	0.23%
Arizona	0.92%	0.85%	0.96%	0.80%	1.21%	1.37%	1.04%	1.04%	1.38%	1.47%	1.49%	2.17%	2.34%	1.98%	2.29%	2.42%
Arkansas	0.14%	0.15%	0.11%	0.12%	0.14%	0.15%	0.24%	0.16%	0.16%	0.14%	0.16%	0.23%	0.17%	0.15%	0.14%	0.14%
California	25.97%	23.72%	24.39%	22.32%	16.85%	18.89%	19.11%	20.10%	17.44%	21.19%	19.26%	16.10%	18.36%	18.72%	18.55%	18.38%
Colorado	2.99%	4.38%	2.29%	2.00%	2.05%	1.57%	1.92%	1.98%	1.93%	1.95%	1.85%	1.70%	1.96%	1.78%	1.76%	1.92%
Connecticut	0.80%	1.08%	0.87%	0.78%	1.08%	1.31%	1.18%	1.21%	0.97%	0.87%	1.18%	1.75%	2.23%	2.21%	2.12%	2.02%
Delaware	0.04%	0.07%	0.06%	0.08%	0.08%	0.09%	0.10%	0.07%	0.06%	0.07%	0.09%	0.09%	0.09%	0.10%	0.08%	0.09%
District of Columbia	2.49%	3.13%	3.29%	3.64%	3.67%	4.00%	3.79%	3.18%	3.09%	3.30%	3.17%	3.21%	3.29%	3.06%	3.12%	3.64%
Florida	3.75%	3.69%	4.44%	4.14%	4.42%	3.53%	4.44%	4.82%	3.89%	3.09%	3.24%	3.44%	2.83%	2.81%	2.93%	2.08%
Georgia	0.57%	0.75%	3.76%	4.42%	8.16%	6.35%	6.09%	5.58%	4.75%	2.68%	3.49%	4.16%	2.31%	1.59%	1.62%	1.63%
Hawaii	0.16%	0.19%	0.23%	0.19%	0.23%	0.20%	0.22%	0.22%	0.23%	0.27%	0.28%	0.36%	0.43%	0.37%	0.37%	0.39%
Idaho	0.55%	0.52%	0.51%	0.48%	0.35%	0.32%	0.39%	0.33%	0.31%	0.28%	0.32%	0.28%	0.28%	0.23%	0.26%	0.27%
Illinois	1.67%	2.04%	1.65%	1.69%	1.91%	1.88%	1.83%	1.81%	1.81%	1.94%	2.04%	2.27%	2.03%	2.11%	1.82%	1.88%
Indiana	0.57%	0.61%	0.56%	0.78%	0.60%	0.63%	0.67%	0.59%	0.53%	0.55%	0.68%	0.67%	0.61%	0.60%	0.51%	0.50%
Iowa	0.31%	0.38%	0.30%	0.33%	0.34%	0.33%	0.33%	0.34%	0.34%	0.36%	0.36%	0.42%	0.48%	0.52%	0.54%	0.43%
Kansas	0.19%	0.14%	0.14%	0.14%	0.14%	0.18%	0.31%	0.36%	0.21%	0.26%	0.30%	0.38%	0.34%	0.20%	0.20%	0.19%
Kentucky	0.15%	0.20%	0.11%	0.13%	0.14%	0.11%	0.12%	0.13%	0.30%	0.19%	0.27%	0.33%	0.36%	0.25%	0.23%	0.26%
Louisiana	0.24%	0.30%	0.29%	0.26%	0.34%	0.28%	0.38%	0.33%	0.35%	0.33%	0.34%	0.36%	0.53%	0.52%	0.41%	0.38%
Maine	0.06%	0.09%	0.09%	0.10%	0.12%	0.08%	0.08%	0.10%	0.15%	0.20%	0.33%	0.56%	0.30%	0.15%	0.18%	0.22%
Maryland	8.57%	9.27%	8.96%	10.91%	10.08%	11.22%	10.25%	10.84%	11.41%	11.07%	11.93%	11.45%	8.39%	8.26%	12.16%	11.49%
Massachusetts	4.76%	5.07%	4.84%	5.19%	4.73%	4.88%	4.71%	4.90%	4.31%	4.15%	5.53%	5.33%	5.31%	5.63%	5.26%	5.23%
Michigan	1.27%	1.24%	1.32%	1.31%	1.14%	1.00%	1.05%	1.05%	1.05%	1.11%	1.30%	1.45%	1.42%	1.76%	1.01%	1.00%
Minnesota	0.83%	0.73%	0.68%	0.65%	0.72%	0.83%	1.01%	0.87%	1.12%	1.18%	1.04%	1.11%	1.31%	0.90%	0.77%	0.69%
Mississippi	0.81%	0.45%	0.44%	0.44%	0.42%	0.36%	0.42%	0.47%	0.45%	0.50%	0.55%	0.53%	0.75%	1.25%	1.49%	0.39%
Missouri	1.66%	0.95%	1.10%	1.06%	3.35%	2.34%	1.87%	1.61%	1.29%	1.23%	1.18%	1.12%	1.37%	1.35%	2.78%	3.66%
Montana	0.05%	0.08%	0.11%	0.10%	0.09%	0.10%	0.10%	0.13%	0.11%	0.13%	0.13%	0.18%	0.14%	0.14%	0.18%	0.17%
Nebraska	0.13%	0.13%	0.11%	0.12%	0.13%	0.13%	0.13%	0.12%	0.12%	0.13%	0.13%	0.17%	0.17%	0.15%	0.15%	0.13%
Nevada	0.85%	0.88%	0.78%	0.66%	0.55%	0.59%	0.40%	0.42%	0.41%	0.39%	0.36%	0.38%	0.40%	0.44%	0.48%	0.35%
New Hampshire	0.23%	0.31%	0.24%	0.35%	0.32%	0.31%	0.40%	0.40%	0.37%	0.39%	0.48%	0.51%	0.34%	0.38%	0.34%	0.33%
New Jersey	2.57%	2.76%	2.51%	2.15%	2.10%	1.93%	1.91%	1.92%	2.06%	3.55%	2.62%	1.99%	2.32%	1.94%	2.04%	2.16%
New Mexico	3.90%	3.50%	3.54%	3.62%	3.01%	3.04%	2.99%	2.92%	2.77%	2.86%	2.97%	3.34%	3.26%	3.17%	3.11%	3.13%
New York	4.76%	5.10%	4.85%	3.95%	4.21%	3.98%	3.92%	3.73%	3.70%	3.66%	4.01%	4.23%	4.39%	4.24%	3.82%	4.56%
North Carolina	0.97%	1.09%	1.06%	1.10%	1.14%	1.24%	1.24%	1.32%	1.31%	1.38%	1.41%	1.72%	1.58%	1.71%	1.58%	1.63%
North Dakota	0.09%	0.08%	0.09%	0.08%	0.08%	0.08%	0.07%	0.08%	0.08%	0.08%	0.09%	0.10%	0.12%	0.11%	0.10%	0.10%
Ohio	3.33%	2.94%	2.96%	2.89%	2.74%	2.84%	2.57%	2.74%	7.80%	5.01%	2.47%	2.94%	2.45%	2.53%	2.54%	2.16%
Oklahoma	0.26%	0.22%	0.19%	0.17%	0.21%	0.23%	0.21%	0.24%	0.25%	0.23%	0.25%	0.28%	0.31%	0.30%	0.30%	0.23%
Oregon	0.29%	0.35%	0.34%	0.35%	0.42%	0.42%	0.46%	0.46%	0.49%	0.55%	0.62%	0.66%	0.58%	0.51%	0.42%	0.51%
Pennsylvania	3.28%	3.53%	2.75%	3.87%	3.02%	3.53%	2.90%	2.75%	2.63%	2.55%	3.20%	3.22%	3.62%	4.04%	3.20%	2.94%
Rhode Island	0.61%	0.71%	0.58%	0.72%	0.64%	0.76%	0.86%	0.58%	0.55%	0.54%	0.56%	0.53%	0.59%	0.55%	0.47%	0.52%
South Carolina	0.36%	0.45%	0.26%	0.26%	0.31%	0.26%	0.28%	0.25%	0.26%	0.31%	0.35%	0.39%	0.43%	0.44%	0.36%	0.39%
South Dakota	0.03%	0.04%	0.04%	0.04%	0.05%	0.04%	0.06%	0.06%	0.06%	0.05%	0.05%	0.07%	0.07%	0.06%	0.08%	0.07%
Tennessee	1.38%	1.27%	1.07%	1.02%	1.10%	0.90%	0.85%	0.86%	0.90%	1.08%	1.14%	1.38%	1.47%	1.41%	1.18%	1.35%
Texas	5.76%	4.05%	4.98%	4.32%	5.46%	6.03%	5.22%	5.26%	5.72%	5.14%	6.19%	5.29%	5.41%	6.40%	5.36%	4.94%
Utah	0.68%	0.69%	0.47%	0.44%	0.49%	0.54%	0.52%	0.46%	0.54%	0.40%	0.38%	0.48%	0.47%	0.69%	0.64%	0.74%
Vermont	0.07%	0.09%	0.08%	0.09%	0.07%	0.08%	0.07%	0.07%	0.08%	0.08%	0.10%	0.14%	0.15%	0.19%	0.20%	0.15%
Virginia	4.45%	4.92%	5.08%	5.14%	5.67%	5.04%	6.83%	6.97%	6.52%	7.66%	6.48%	6.00%	6.63%	6.64%	6.45%	7.57%
Washington	2.50%	2.04%	1.42%	1.38%	1.52%	1.74%	1.80%	1.83%	1.74%	1.74%	1.77%	1.91%	2.29%	2.43%	1.96%	2.19%
West Virginia	0.20%	0.43%	0.26%	0.31%	0.32%	0.43%	0.38%	0.28%	0.35%	0.33%	0.34%	0.45%	0.30%	0.39%	0.28%	0.71%
Wisconsin	0.43%	0.49%	0.47%	0.52%	0.56%	0.51%	0.49%	0.47%	0.46%	0.50%	0.57%	0.61%	0.70%	0.74%	0.65%	0.64%
Wyoming	0.09%	0.05%	0.06%	0.07%	0.06%	0.05%	0.06%	0.04%	0.05%	0.05%	0.05%	0.05%	0.05%	0.04%	0.04%	0.03%