



STATE R&D PROFILE

Kansas



**Table 1. Federal R&D to Kansas by Agency and Performer,
Fiscal Year 2000**
(obligations in millions of dollars)

Performers	Agencies							TOTAL
	HHS	DOD	USDA	NSF	DOE	NASA	other	
Federal Labs	1	9	9	0	0	0	2	21
Industry	61	42	0	0	0	1	0	104
Univs. / Colleges	49	5	9	16	8	4	5	95
FFRDCs *	0	0	0	0	0	0	0	0
Nonprofits	1	0	0	0	0	0	0	2
State / Local Govts.	5	0	0	0	0	0	0	5
Total Kansas	117	55	18	16	8	5	8	226
U.S. Total	18,577	33,010	1,830	2,930	6,872	9,714	2,818	75,751
KS % of U.S.	0.6%	0.2%	1.0%	0.5%	0.1%	0.1%	0.3%	0.3%

Source: National Science Foundation, *Federal Funds for Research and Development Fiscal Years 2000, 2001, and 2002*, 2002.

R&D data are for the 10 largest R&D supporting agencies only.

* Federally Funded Research and Development Centers. Government-owned, contractor-operated laboratories.

R&D = conduct of R&D and R&D plant (facilities and capital equipment).

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This AAAS State R&D Profile is one of a series of reports on the state and regional impacts of federal R&D, produced in cooperation with the AAAS Center for Science, Technology, and Congress from data provided by the National Science Foundation Division of Science Resources Statistics. More information on these reports, summary tables on R&D in the states, current profiles of the other states, and full-color, full-size versions of these charts are all available in the "State and Regional Reports" section of the AAAS R&D Web site (<http://www.aaas.org/spp/rd>). These profiles will be updated annually as new data become available.

AAAS State R&D Profiles - Kansas

- Kansas received \$226 million in federal R&D in FY 2000, 0.3 percent of the national total, which gives it a ranking of 39th among the 50 states and the District of Columbia. The state is home to 2.7 million people, or 1.0 percent of the total U.S. population (32nd in rank). Its gross state product in 2000 was \$85 billion (0.9 percent of the national gross domestic product and 31st among the 50 states and DC; see Facts and Rankings).

- Kansas ranks 42nd in federal R&D per capita at \$84 per person, roughly one quarter of the national average of \$269.

- Kansas is a participant in the Experimental Program to Stimulate Competitive Research (EPSCoR) started by NSF to help states that traditionally have been underrepresented as recipients of federal R&D funds to become more competitive in winning federal R&D dollars. The program has expanded to include funding from other federal agencies such as DOE, DOD, USDA, EPA, and NASA. Kansas also participates in the Institutional Development Award (IDeA) program, a program administered by NIH that is designed to foster research in states that have not traditionally received significant levels of competitive funding from NIH.

- HHS is the largest federal supporter of R&D in Kansas, sending \$117 million to the state in FY 2000. DOD comes in second at \$55 million; USDA and NSF come in third and fourth at \$18 million and \$16 million, respectively (see Table 1 and Chart 1).

- Universities and colleges received 42.0 percent of federal R&D funding to Kansas in FY 2000 (\$95 million; see Table 1 and Chart 2). The vast majority of these funds went to the University of Kansas and Kansas State University.

- Most federal funding at universities and colleges is provided by HHS, which directed \$48 million to Kansas' higher education institutions (see Table 2 and Chart 3).

- With a total of \$61 million from all agencies, the University of Kansas ranked 89th nationwide among colleges and universities in federal R&D support (see Table 2).

- The University of Kansas ranked 73rd among universities and colleges in total R&D performed in FY 2000. Federal funds were the largest source of R&D funding at the University of Kansas (\$69 million), accounting for slightly more than 46 percent of total R&D (see Table 3).

- Total R&D performance in the state totaled \$1.4 billion in 2000 (see Table 4). Of this total, industry funded \$1.1 billion in R&D, more than four times as much as the federal government. Some notable industrial firms that engage in R&D in Kansas include AlliedSignal, Boeing, the Center for Research, and Eagle Picher Industries.

Click on the charts to view or download full-size color PDF versions of these charts.

**Table 2. Federal R&D to Kansas Universities and Colleges,
Fiscal Year 2000**
(obligations in millions of dollars)

	HHS	NSF	USDA	DOE	DOD	DOT	other	TOTAL
U Kansas (89)	42	9	0	4	4	0	3	61
KS State U (121)	5	6	8	5	2	0	3	30
All Other	1	0	0	0	0	4	2	8
Total Kansas	48	16	9	8	6	4	8	99
U.S. Total	10,533	2,475	564	696	1,832	64	1,365	17,529
KS % of U.S.	0.5%	0.6%	1.6%	1.2%	0.3%	6.7%	0.6%	0.6%

Source: National Science Foundation, *Survey of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 2000*, 2002.

Figures may differ from other tables because of differing survey methods.

Figures in parentheses denote national rank among universities and colleges in federal R&D funds received.

R&D = conduct of R&D and R&D plant (facilities and capital equipment).

**Table 3. Total R&D Expenditures at Kansas Universities and Colleges
by Source of Funds, Fiscal Year 2000**
(expenditures in millions of dollars)

	Federal	State/ Local	Industry	Institutional Funds	All Other	TOTAL R&D	Federal / Total R&D
U Kansas (73)	69	5	16	47	12	149	46.4%
KS State U (102)	31	36	4	17	3	92	34.0%
Wichita State	5	2	4	6	0	16	32.2%
All Other	0	1	0	0	0	2	14.9%
Total Kansas	106	44	23	70	15	258	40.9%
U.S. Total	17,493	2,204	2,178	5,924	2,262	30,062	58.2%
KS % of U.S.	0.6%	2.0%	1.1%	1.2%	0.7%	0.9%	

Source: National Science Foundation, *Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000*, 2002.

These data differ significantly from the federal R&D data for the following reasons:

1/ data are from performer surveys rather than funding sources; 2/ data are in expenditures rather than obligations; and 3/ R&D in this survey does not include R&D facilities.

Figures in parentheses denote national rank among universities and colleges in total R&D performed.

Table 4. Total R&D (all funding sources) in Kansas by Funding Source and Performer, 2000
(expenditures in millions of dollars)

Performers	Funding Sources					Total
	Federal Government	Industry	Univs./ Colleges	State / Local Government	Nonprofits	
Federal Labs	20	--	--	--	--	20
Industry **	104	1,036	--	--	--	1,140
Universities / Colleges	106	23	70	44	15	258
FFRDCs*	0	--	--	--	--	0
Nonprofits	2	--	--	--	--	2
Total Kansas	232	1,059	70	44	15	1,420
U.S. Total	66,208	182,622	6,210	2,257	7,320	264,617
KS % of U.S.	0.4%	0.6%	1.1%	2.0%	0.2%	0.5%

Source: National Science Foundation, 2002.

* Federally Funded Research and Development Centers. Government-owned, contractor-operated laboratories. FFRDCs operated by universities/colleges and nonprofits only. Industry FFRDCs are included under industry.

** Imputed division of industry performance by funding source based on other data.

Industry funding of nonprofit R&D is not included in state data, but is included in national totals.

Industry funding of industry R&D includes all non-federal funding of industry-performed R&D.

Nonprofit support for nonprofits is not included in state data, but is included in national totals.

Nonfederal support for FFRDCs and nonprofits are not included.

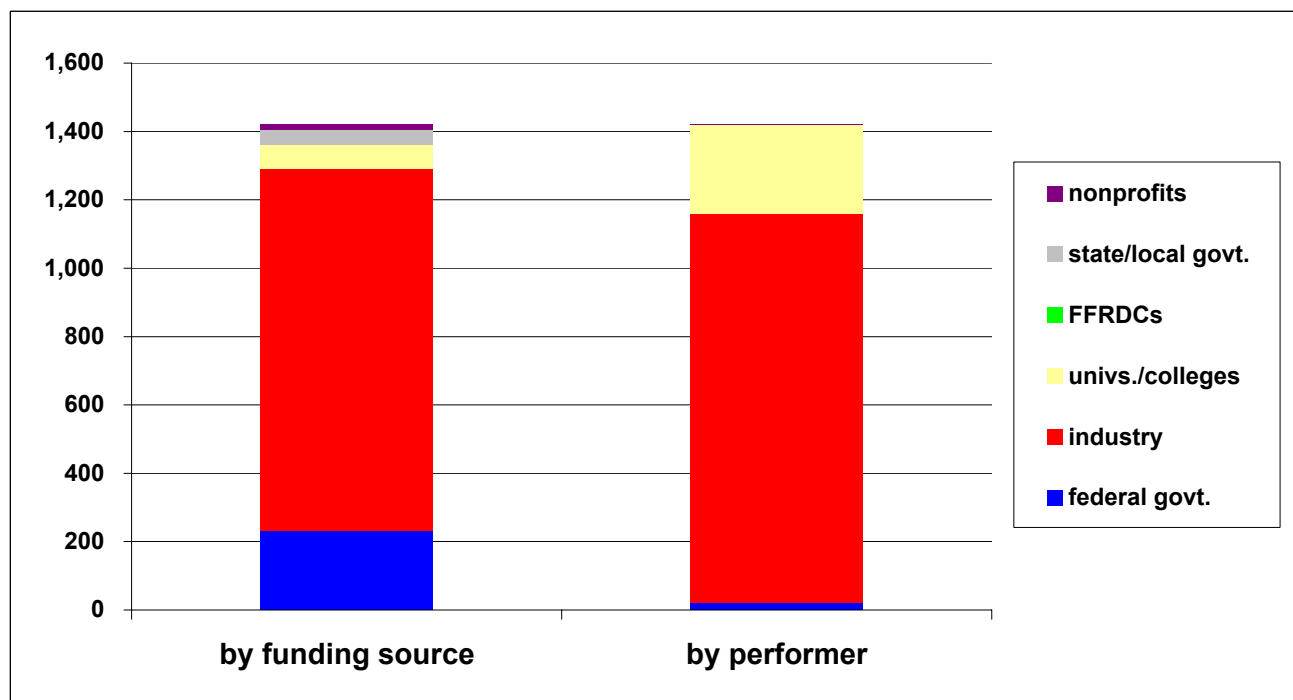
State and local government performance of R&D is not included.

Conduct of R&D only (R&D facilities and capital equipment excluded).

These data differ significantly from the federal R&D data for the following reasons:

1/ data are for calendar year 2000 rather than FY 2000; 2/ data are from performer surveys rather than funding sources; and 3/ data are in expenditures rather than obligations.

Chart. Total R&D in Kansas by Funding Source and by Performer, 2000
expenditures in millions of dollars



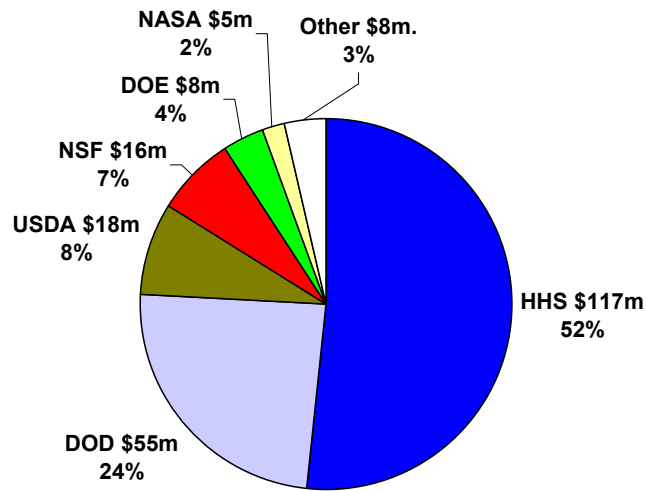
Facts and Rankings for Kansas

	KS	U.S.	KS % of U.S.	Rank *
Total Federal R&D	226 million \$ ('00)	75,751	0.3%	39
Population	2.69 million ('00)	282.13	1.0%	32
Federal R&D Per Capita	\$ 84 ('00)	\$ 269	31.2%	42
Total Federal Expenditures	14,260 million \$ ('00)	1,637,170	0.9%	34
Federal R&D / Total Federal	1.6% ('00)	4.6%		42
Total R&D (all funds)	1,420 million \$ ('00)	264,616	0.5%	31
Total R&D Per Capita	\$ 528 ('00)	\$ 938	56.3%	28
Gross State Product (GSP)	85,063 million \$ ('00)	9,941,552	0.9%	31
GSP Per Capita	\$ 31,601 ('00)	\$ 35,238	89.7%	30
R&D Intensity (R&D / GSP)	1.67% ('00)	2.66%	62.8%	26

Source: Federal R&D: National Science Foundation, *Federal Funds for Research and Development: Fiscal Years 2000, 2001, and 2002* and other data, 2002; Population: U.S. Bureau of the Census; Federal Expenditures: U.S. Bureau of the Census, *Federal Expenditures by State for Fiscal Year 2000, 2001*; GSP: U.S. Department of Commerce, Bureau of Economic Analysis.

* - Rank among 50 states and District of Columbia.

Federal R&D to Kansas by Agency
 FY 2000 (obligations in millions of dollars)
 Total: \$226 million

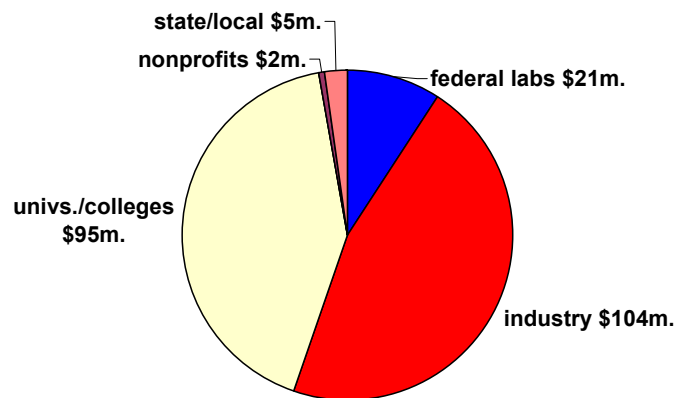


Source: National Science Foundation, Federal Funds for Research and Development, Fiscal Years 2000, 2001, and 2002, 2002.
 R&D = conduct of R&D and R&D plant.
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Chart 1.

Federal R&D to Kansas by Performer
 FY 2000 (obligations in millions of dollars)
 Total: \$226 million

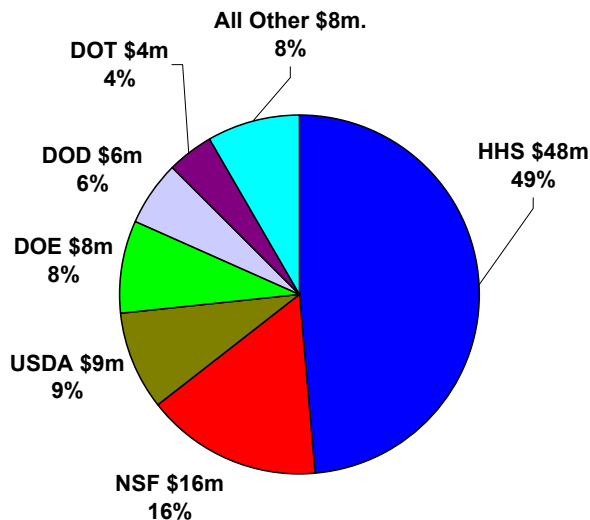


Source: National Science Foundation, Federal Funds for Research and Development, Fiscal Years 2000, 2001, and 2002, 2002.
 R&D = conduct of R&D and R&D plant.
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Chart 2.

Federal R&D to Kansas Universities and Colleges
 FY 2000 (obligations in millions of dollars)
 Total: \$99 million

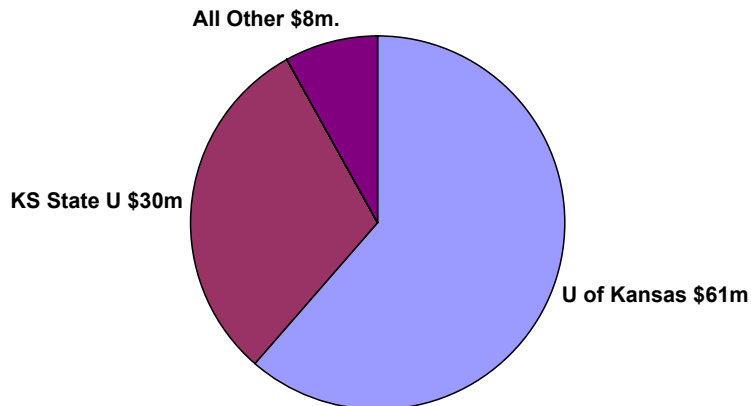


Source: National Science Foundation, *Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions, FY 2000, 2002.*
 R&D = conduct of R&D and R&D plant.
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Chart 3.

Federal R&D to Kansas Universities and Colleges
 FY 2000 (obligations in millions of dollars)
 Total: \$99 million

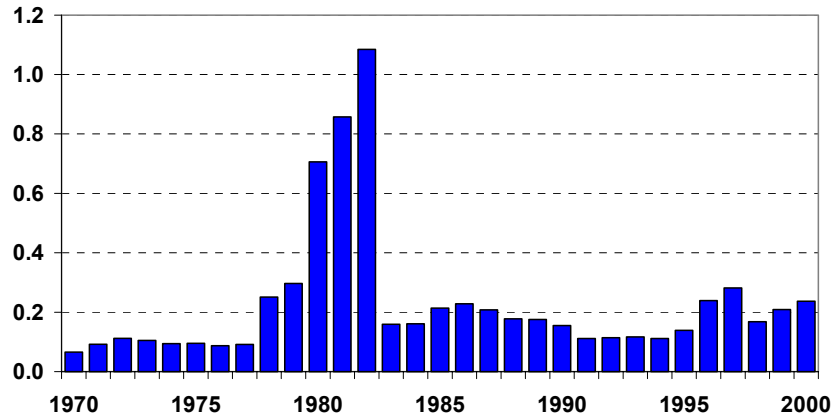


Source: National Science Foundation, *Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions, FY 2000, 2002.*
 R&D = conduct of R&D and R&D plant.
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Chart 4.

Federal R&D to Kansas, FY 1970-2000
(billions of constant FY 2002 dollars)

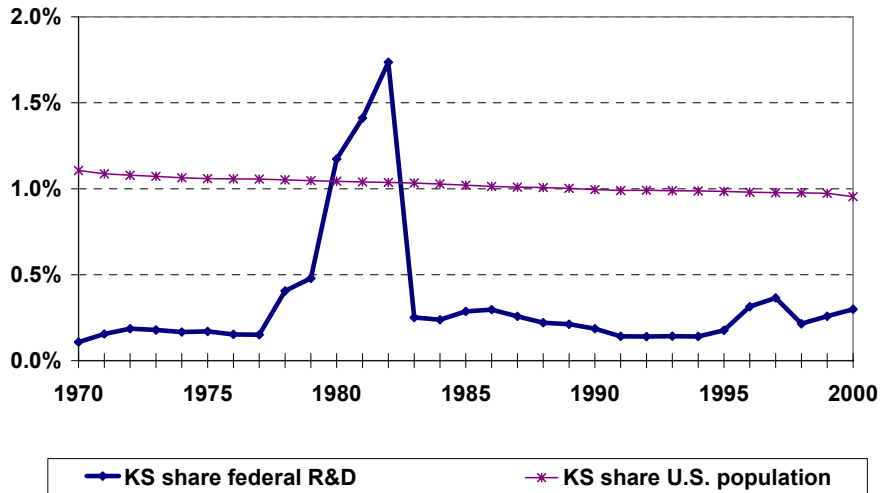


Source: National Science Foundation, Federal Funds for Research and Development Historical Tables, 2002.
R&D = conduct of R&D and R&D plan
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Chart 5.

Kansas share of federal R&D, FY 1970-2000
(percent of total federal R&D)



Source: National Science Foundation, Federal Funds for Research and Development Historical Tables, 2002.
R&D = conduct of R&D and R&D plant.
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Chart 6.