

THE UNIVERSITY OF KANSAS  
Institute for Public Policy and Business Research  
School of Business  
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RESEARCH PAPERS

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Seventh Assessment of the Science,  
Engineering, and Math Infrastructure  
at Three Universities in Kansas

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prepared for  
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by

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## EXECUTIVE SUMMARY

Kansas received its first NSF EPSCoR grant in 1992. The second NSF EPSCoR grant, received in 1995, is a cooperative agreement, negotiated on a yearly renewal basis. Assessment of the status of science, engineering, and math (SEM) research and infrastructure at the state's three Ph.D. granting institutions (Kansas State University, University of Kansas - Lawrence, and Wichita State University) has occurred annually.\* These assessments revealed that, at the end of the first three years of NSF EPSCoR funding, the state's competitive position was improving, especially for faculty who received EPSCoR funds.

Phase II of the NSF EPSCoR funding has begun, and the state has renewed its efforts to improve its competitive position. However, maintaining past gains has proven to be a challenge. The chart, *The Universities at a Glance for 1997 for Science, Engineering and Math*, at the end of this executive summary gives an overview of the current situation for Kansas. Data concerned with faculty, enrollment, and degrees awarded are reported for annual year 1997. Grant data are reported for fiscal year 1997. Current assessment revealed several important findings.

- The number of SEM faculty fell by one percent in academic year 1997 compared to 1996. The largest number decreases were seen at KSU.
- The number of women and minority SEM faculty continued to be above 1991 levels but still represent a small proportion of total faculty - 16 percent for women and 14 percent for minority.
- The number of assistant professors was lower in 1997 than in 1996 as was the number of graduate teaching assistants and student research assistants. This may have a negative impact upon research and grant productivity.
- The number of post doctoral positions increased 15 percent from 1996 to 1997 and by 87 percent from 1991 to 1997.
- Faculty salaries continue to be lower than those paid at peer institutions.
- SEM graduate enrollment was three percent lower than 1996 levels and four percent above 1991 levels. The number of engineering graduate students fell four percent from 1996 to 1997. However, engineering enrollment in 1997 was 17 percent above the 1991.
- The number of women enrolled in SEM graduate programs decreased three percent from 1996 to 1997; minority graduate enrollment also decreased by three percent for the same time period.

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\* Appendix A lists all department and academic units included in the database. Departments and academic units vary between institutions.

- The number of graduate students receiving financial support in the form of teaching assistantships or research assistantships was lower than the previous year.
- NSF dollars (excluding NSF EPSCoR) awarded to the state from 1991 to 1997 has increased every year except for 1993 and 1996.
- The dollars awarded by all funding sources to the state has increased every year except for 1994 and 1995.
- Award amounts to NSF EPSCoR funded faculty has increased significantly from FY1994 to FY1997 indicating a positive impact of the NSF EPSCoR program.

The 1997 data revealed declines in the number of assistant professors, student research assistants and graduate teaching assistants. Declines in faculty were explained by

- a hiring freeze in 1994 at the University of Kansas due to budget restrictions,
- a decrease in federal funding for agricultural programs at Kansas State University,
- an increase in the hiring of temporary (adjunct) faculty to fill tenure track positions at Kansas State University, and
- selective replacement of vacant positions due to a decline in total enrollment at Wichita State University.

Previous EPSCoR assessments suggested that the lifting of hiring freezes would be followed with increases in the number of faculty and consequently the number of students accepted into graduate programs. It was argued that with more faculty personnel hired, the number of grants submitted and funded would improve which would also increase the number of student research assistants that can be supported.

However, it may still be too early to see much improvement from the lifting of hiring freeze at the University of Kansas - SEM faculty increased by one from 1996 to 1997. It appears that the hiring practices for faculty at Kansas State University and Wichita State University do not support an increase in faculty. Kansas saw a decline in the number of grants submitted and awarded in 1997. The 1997 data showed declines in graduate enrollment, SEM personnel, particularly faculty and student research assistants. If the hiring practices were responsible for the declines in the SEM infrastructure starting in 1995, then past improvements in Kansas' competitive position may indeed be very fragile. The state must focus upon protecting gains made by the NSF EPSCoR program and encouraging growth in key areas such as number of faculty, graduate enrollment, and graduate student support that will drive future growth.



# The Universities at a Glance for 1997 for Science, Engineering and Math

## Kansas State University

Faculty .....	610
Female.....	84
Minority .....	80
Average Faculty Salary (FY98).....	\$50,042
SEM Personnel.....	1,834
Graduate Enrollment .....	1,277
Female.....	372
Minority .....	60
Percent Graduates Supported.....	80%
Ph.D. Degrees Awarded .....	119
to Women.....	31
to Minority.....	11
Masters Degrees Awarded .....	269
to Women.....	75
to Minority.....	19
NSF Grant Awards (1997).....	\$6,245,851
Total Grant Awards (1997).....	\$33,837,975
Grant Awards of EPSCoR Funded Faculty*	
Group I.....	\$7,916,642 (60 awards)
Group II .....	\$7,906,521 (63 awards)
EPSCoR I & II.....	\$11,417,842 (85 awards)

## University of Kansas – Lawrence Only

Faculty .....	398
Female.....	64
Minority .....	52
Average Faculty Salary (FY98).....	\$55,818
SEM Personnel.....	1,549
Graduate Enrollment .....	1,594
Female.....	614
Minority .....	109
Percent Graduates Supported.....	56%
Ph.D. Degrees Awarded .....	103
to Women.....	44
to Minority.....	5
Masters Degrees Awarded .....	251
to Women.....	94
to Minority.....	19
NSF Grant Awards .....	\$8,320,195
Total Grant Awards .....	\$57,797,376
Grant Awards of EPSCoR Funded Faculty*	
Group I.....	\$1,932,755 (26 awards)
Group II .....	\$2,092,979 (25 awards)
EPSCoR I & II.....	\$3,327,034 (42 awards)

\*Includes only those grants where faculty served as a principal investigator. Does not include NSF EPSCoR, D EPSCoR, or EPA EPSCoR.

## Wichita State University

Faculty .....	174
Female.....	36
Minority .....	38
Average Faculty Salary (FY98).....	\$47,752
SEM Personnel.....	504
Graduate Enrollment .....	1,193
Female.....	542
Minority .....	50
Percent Graduates Supported.....	22%
Ph.D. Degrees Awarded .....	26
to Women.....	5
to Minority.....	2
Masters Degrees Awarded .....	254
to Women.....	129
to Minority.....	15
NSF Grant Awards (1997).....	\$905,842
Total Grant Awards (1997).....	\$7,067,612
Grant Awards of EPSCoR Funded Faculty*	
Group I.....	\$343,706 (8 awards)
Group II .....	\$2,849,384 (29 awards)
EPSCoR I & II.....	\$2,864,684 (31 awards)

## State Totals

Faculty .....	1,182
Female.....	184
Minority .....	170
Average Faculty Salary (FY98).....	NA
SEM Personnel.....	3,887
Graduate Enrollment .....	4,064
Female.....	1,528
Minority .....	219
Percent Graduates Supported.....	53%
Ph.D. Degrees Awarded .....	248
to Women.....	80
to Minority.....	18
Masters Degrees Awarded .....	774
to Women.....	298
to Minority.....	53
NSF Grant Awards .....	\$15,471,888
Total Grant Awards .....	\$98,702,963
Grant Awards of EPSCoR Funded Faculty*	
Group I.....	\$10,193,103 (94 awards)
Group II .....	\$12,848,884 (117 awards)
EPSCoR I & II....	\$17,609,560 (158 awards)

# *Seventh Assessment of the Science, Engineering, and Math Infrastructure at Three Universities in Kansas*

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## INTRODUCTION

In 1992, Kansas began participation in the NSF Experimental Program to Stimulate Competitive Research (EPSCoR). At that time, a plan was developed to assess progress in making Kansas more competitive for federal research and development (R&D) dollars. Annual assessment of the status of science, engineering and math (SEM) research and infrastructure at the state's three Ph.D. granting institutions occurred. That assessment relied upon a database which described and monitored the SEM infrastructure (human resources, facilities) and grant activity. The database was created using data provided by Kansas State University (KSU), University of Kansas-Lawrence<sup>1</sup> (KU) and Wichita State University (WSU). It contained information about personnel, graduate enrollment, degrees, facilities, and grant activity. Assessment of the impact of the first three years of NSF EPSCoR funding revealed that the state's competitive position was improving, especially for faculty who received EPSCoR funds.

In 1995, Kansas' NSF EPSCoR funding was negotiated for a Phase II, three year cooperative agreement. Annual assessment continues to monitor growth in number of science, engineering, and math personnel, graduate students, degrees awarded, and grant activity. This report presents the seventh annual assessment of SEM research and infrastructure.

## SCIENCE, ENGINEERING, AND MATH INFRASTRUCTURE

### Personnel

*SEM Faculty*<sup>2</sup>. The total number of SEM faculty at KSU, KU-Lawrence and WSU has declined slightly since 1991 (Figure 1). In 1991, the state (KSU, KU and WSU combined) had a total of 1,231 SEM faculty and in 1997, the state total was 1,182, a decrease of four percent (Table 1).

Table 1 also shows that the state experienced a slight decline (one percent) in the number of SEM faculty from 1996 to 1997. This statewide decrease can be attributed to the loss of 14 faculty members at KSU. Most of the decrease at KSU continues to be in the sciences (loss of nine Science faculty members). Previous assessments explain this decrease to declines in the

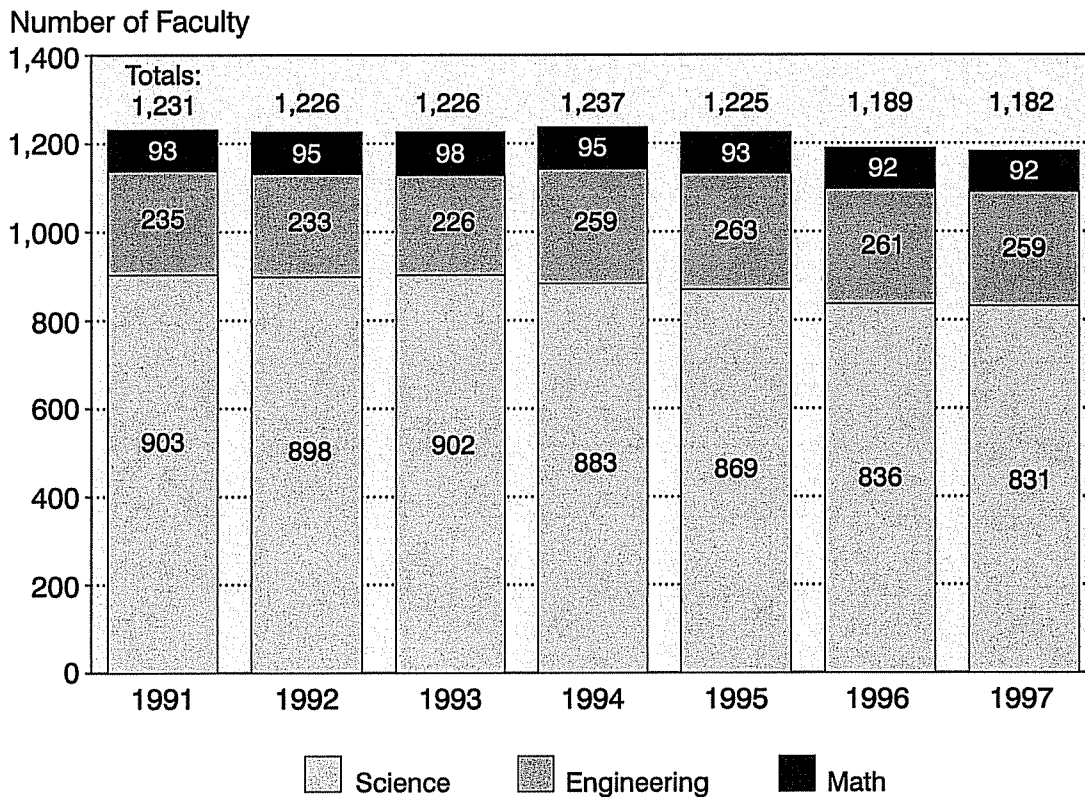
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<sup>1</sup>All data reported for the University of Kansas are for the Lawrence campus *only*. Medical Center data are not included.

<sup>2</sup>Appendix A lists all departments and academic units included in the database. Departments and academic units vary between institutions.

Agricultural Experiment Station and the Cooperative Extension Service funding, which could be affecting the number of assistant professors hired. It appears that the tenure track faculty positions are being filled by temporary faculty as illustrated by the increase in the number of adjunct faculty from 1995 to 1997 (6 to 79, respectively).<sup>3</sup> In 1997, KU had its first increase in SEM faculty since the 1994 hiring freeze, albeit only one. For 1997, faculty numbers at WSU were up by six - all in the sciences. The previous assessment (sixth) found that fewer vacant faculty positions at WSU were being filled due to the total enrollment decline between 1995 and 1996, even though graduate enrollment in SEM remained up.

Figure 1  
Science, Engineering, and Math Faculty



Source: Institutional databases.

<sup>3</sup> Statistic obtained from the Office of Research and Sponsored Programs, Planning and Analysis, Kansas State University, 1998.

**Table 1**  
**NUMBER OF SCIENCE, ENGINEERING, AND MATH FACULTY:**  
**KSU, KU, and WSU**

	1991	1994	1996	1997	<u>Percent Change</u>	
					1996-97	1991-97
<b>KSU</b>						
Science	479	482	463	452	-2%	-6%
Engineering	115	128	129	126	-2%	10%
Math	29	32	32	32	0%	10%
<i>Subtotal</i>	<i>623</i>	<i>642</i>	<i>610</i>	<i>610</i>	<i>-2%</i>	<i>-2%</i>
<b>KU-Lawrence</b>						
Science	286	296	273	273	0%	-5%
Engineering*	76	86	87	88	1%	16%
Math	37	38	37	37	0%	0%
<i>Subtotal</i>	<i>399</i>	<i>420</i>	<i>397</i>	<i>398</i>	<i>0%</i>	<i>0%</i>
<b>WSU</b>						
Science	138	105	100	106	6%	1% **
Engineering	44	45	45	45	0%	0%
Math	27	25	23	23	0%	-8%
<i>Subtotal</i>	<i>209</i>	<i>196</i>	<i>168</i>	<i>174</i>	<i>4%</i>	<i>-11%</i>
<b>STATE</b>						
Science	903	883	836	831	-1%	-8%
Engineering	235	259	261	259	-1%	10%
Math	93	95	92	92	0%	-1%
<b>TOTAL</b>	<b>1,231</b>	<b>1,237</b>	<b>1,189</b>	<b>1,182</b>	<b>-1%</b>	<b>-4%</b>

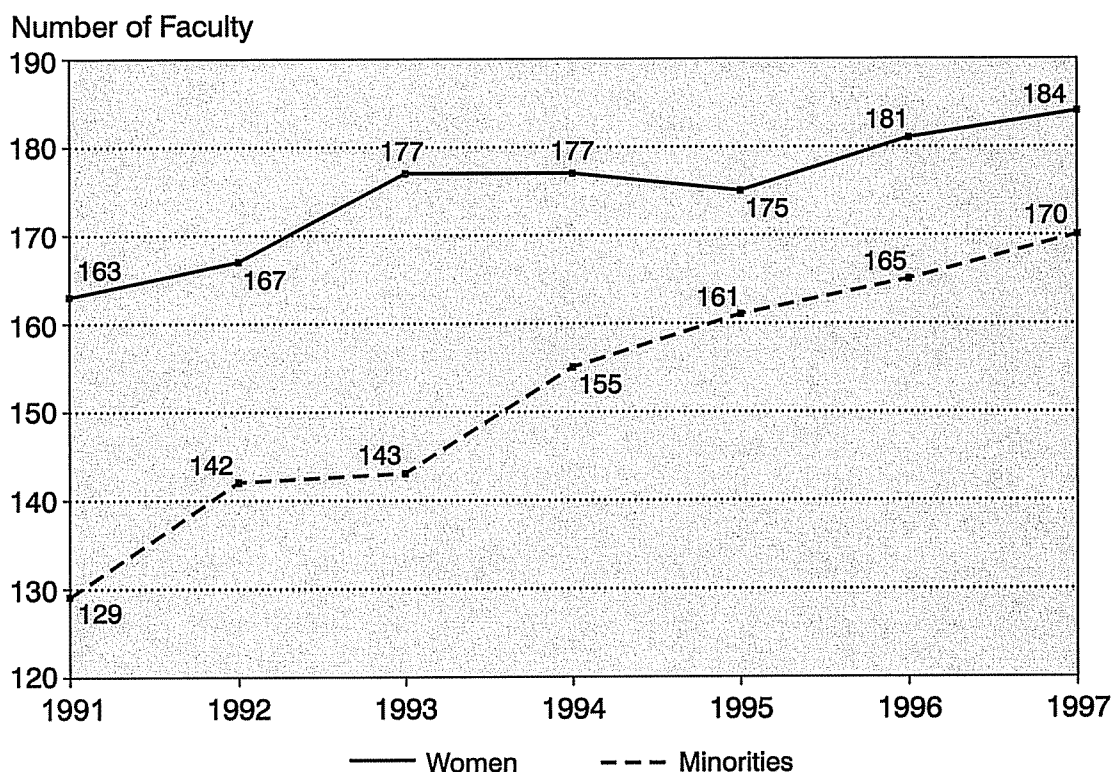
\*Computer Science moved from the College of Liberal Arts and Sciences to the School of Engineering in 1994.

\*\*Percent change for WSU 1994 to 1997; program changes in Science data starting 1994.

Source: Institutional databases.

Figure 2 shows that the number of minority and women faculty members has grown since 1991 and that the gap between women and minority faculty is getting smaller. In 1991, the number of female faculty was 163 compared to 129 minority faculty members. By 1997, the number of female faculty members was 184 compared to 170 minority faculty members. The total number of female SEM faculty for 1997 was 184, an increase of three faculty members from the 1996 level of 181 (Table 2, Figure 2). The number of minority SEM faculty members increased by five from 1996 to 1997 (Table 3, Figure 2).

Figure 2  
Science, Engineering, and Math Female and Minority Faculty



Source: Institutional databases.

While the number of female SEM faculty has steadily increased since 1991, female SEM faculty as a percentage of the total SEM faculty has remained fairly stable comprising 14 to 16 percent of the total SEM faculty (Table 2). In 1997, women comprised 14 percent of the total SEM faculty at KSU, 16 percent at KU, and 21 percent at WSU. The 184 women SEM faculty comprised 16 percent of the state's SEM faculty in 1997.

Minority members of the SEM faculty made up 14 percent of the total SEM faculty in 1997 (Table 3).<sup>4</sup> The total number of minority faculty increased by five faculty members from 165 in 1996 to 170 in 1997. The total number of minority SEM faculty has grown by 41 faculty members from 129 in 1991 to 170 in 1997. From 1996 to 1997, the number of minority faculty members remained relatively unchanged with an increase of two members at KSU, an increase of three members at KU, and the same number at WSU.

The total percentage of women and minority SEM faculty in the state remains low. However, in an environment that has seen a decline in the number of SEM faculty from 1991 to 1997, the number of female and minority faculty members has managed to increase during the same time period.

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<sup>4</sup> Minority faculty numbers in Kansas are relatively low. Therefore, small number changes translate into large percent changes for the state.

**Table 2**  
**NUMBER OF FEMALE FACULTY**

	1991	1994	1996	1997	<u>Percent Change</u>	
					1996-97	1991-97
<b>KSU</b>						
Science	54	64	72	72	0%	33%
Engineering	4	6	9	12	<i>n.a.</i>	<i>n.a.</i>
Math	0	0	1	0	<i>n.a.</i>	<i>n.a.</i>
<b>Total Female</b>	<b>58</b>	<b>70</b>	<b>82</b>	<b>84</b>	<b>2%</b>	<b>45%</b>
<i>Total Faculty</i>	<i>623</i>	<i>642</i>	<i>624</i>	<i>610</i>	<i>-2%</i>	<i>-2%</i>
<b>% Female</b>	<b>9%</b>	<b>11%</b>	<b>13%</b>	<b>14%</b>		
<b>KU-Lawrence</b>						
Science	45	60	56	55	-2%	22%
Engineering	2	5	5	5	<i>n.a.</i>	<i>n.a.</i>
Math	3	3	4	4	<i>n.a.</i>	<i>n.a.</i>
<b>Total Female</b>	<b>50</b>	<b>68</b>	<b>65</b>	<b>64</b>	<b>-2%</b>	<b>28%</b>
<i>Total Faculty</i>	<i>399</i>	<i>420</i>	<i>397</i>	<i>398</i>	<i>0%</i>	<i>0%</i>
<b>% Female</b>	<b>13%</b>	<b>16%</b>	<b>16%</b>	<b>16%</b>		
<b>WSU</b>						
Science	52	37*	30	32	7%	-14%*
Engineering	2	2	4	4	<i>n.a.</i>	<i>n.a.</i>
Math	1	0	0	0	<i>n.a.</i>	<i>n.a.</i>
<b>Total Female</b>	<b>55</b>	<b>49</b>	<b>34</b>	<b>36</b>	<b>6%</b>	<b>-8%</b>
<i>Total Faculty</i>	<i>209</i>	<i>175</i>	<i>168</i>	<i>174</i>	<i>4%</i>	<i>-1%</i>
<b>% Female</b>	<b>26%</b>	<b>28%</b>	<b>20%</b>	<b>21%</b>		
<b>STATE</b>						
Science	151	161	158	159	1%	5%
Engineering	8	13	18	21	<i>n.a.</i>	<i>n.a.</i>
Math	4	3	5	4	<i>n.a.</i>	<i>n.a.</i>
<b>Total Female</b>	<b>163</b>	<b>177</b>	<b>181</b>	<b>184</b>	<b>2%</b>	<b>13%</b>
<i>Total Faculty</i>	<i>1,231</i>	<i>1,237</i>	<i>1,189</i>	<i>1,182</i>	<i>-1%</i>	<i>-4%</i>
<b>% Female</b>	<b>15%</b>	<b>14%</b>	<b>15%</b>	<b>16%</b>		

\*Percent change for WSU 1994 to 1997; program changes in Science data starting 1994.  
*n.a.* = not applicable. Percent change not calculated (numbers too small to generate a meaningful percent change).

Source: Institutional databases.

**Table 3**  
**NUMBER OF MINORITY FACULTY**

	1991	1994	1996	1997	<u>Percent Change</u>	
					1996-97	1991-97
<b>KSU</b>						
Science	36	39	44	84	9%	33%
Engineering	16	22	27	25	-7%	n.a.
Math	6	9	7	7	n.a.	n.a.
<b>Total Minority</b>	<b>58</b>	<b>70</b>	<b>78</b>	<b>80</b>	<b>3%</b>	<b>38%</b>
<i>Total Faculty</i>	<i>623</i>	<i>642</i>	<i>624</i>	<i>610</i>	<i>-2%</i>	<i>-2%</i>
<b>% Minority</b>	<b>9%</b>	<b>11%</b>	<b>13%</b>	<b>13%</b>		
<b>KU-Lawrence</b>						
Science	24	27	27	30	11%	25%
Engineering	10	14	13	14	n.a.	n.a.
Math	5	9	9	8	n.a.	n.a.
<b>Total Minority</b>	<b>39</b>	<b>50</b>	<b>49</b>	<b>52</b>	<b>6%</b>	<b>33%</b>
<i>Total Faculty</i>	<i>399</i>	<i>420</i>	<i>397</i>	<i>398</i>	<i>0%</i>	<i>0%</i>
<b>% Minority</b>	<b>10%</b>	<b>12%</b>	<b>12%</b>	<b>13%</b>		
<b>WSU*</b>						
Science	15	13*	13	14	n.a.	n.a.
Engineering	10	14	16	5	n.a.	n.a.
Math	7	8	9	9	n.a.	n.a.
<b>Total Minority</b>	<b>32</b>	<b>35</b>	<b>38</b>	<b>38</b>	<b>0%</b>	<b>9%</b>
<i>Total Faculty</i>	<i>209</i>	<i>175</i>	<i>168</i>	<i>174</i>	<i>4%</i>	<i>-1%</i>
<b>% Minority</b>	<b>15%</b>	<b>20%</b>	<b>23%</b>	<b>22%</b>		
<b>STATE</b>						
Science	75	79	84	92	10%	23%
Engineering	36	50	56	54	-4%	50%
Math	18	26	25	24	-4%	33%
<b>Total Minority</b>	<b>129</b>	<b>155</b>	<b>165</b>	<b>170</b>	<b>3%</b>	<b>32%</b>
<i>Total Faculty</i>	<i>1,231</i>	<i>1,237</i>	<i>1,189</i>	<i>1,182</i>	<i>-1%</i>	<i>-4%</i>
<b>% Minority</b>	<b>10%</b>	<b>13%</b>	<b>14%</b>	<b>14%</b>		

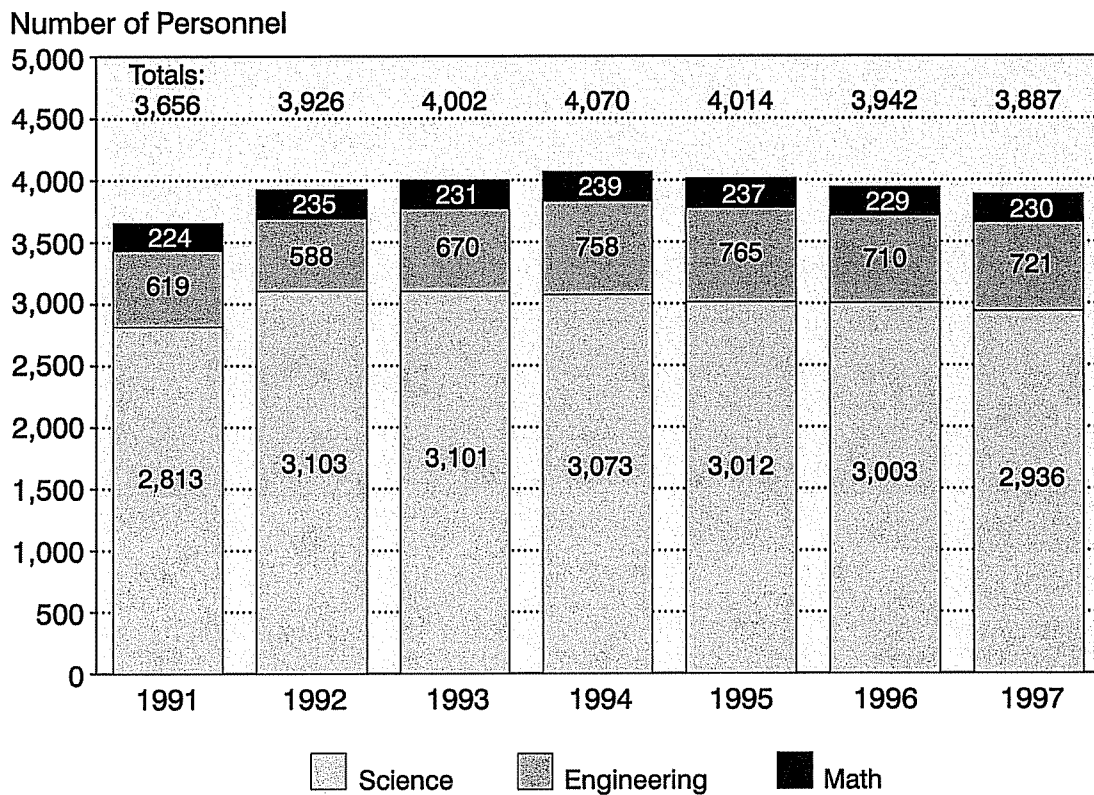
\*Percent change for WSU 1994 to 1997; program changes in Science data starting 1994.  
n.a. = not applicable. Percent change not calculated (numbers too small to generate a meaningful percent change).

Source: Institutional databases.



*SEM Personnel.*<sup>5</sup> Figure 3 shows a trend of the decline in the total number of SEM personnel starting in 1995. Math personnel peaked in 1994 at 239 while Engineering personnel was at its highest in 1995 at 765. Science personnel's greatest numbers can be found in 1992 at 3,103.

Figure 3  
Science, Engineering, and Math Personnel



Source: Institutional databases.

<sup>5</sup> SEM personnel includes professors, associate professors, assistant professors, academic staff /directors/technical staff, research associates and assistants, post doctoral, graduate teaching assistants, and student research assistants.

While SEM personnel declined by one percent from 1996 to 1997, Table 4 shows increases in some areas: associate professors (2 percent), academic staff (14 percent), research associates and assistants (7 percent), and post doctoral (15 percent). The increase in the number of associate professors is tempered by a decrease in the number of assistant professors, indicating that those promoted to the associate level were not replaced by new hires at the assistant level. In 1995, the number of assistant professors fell below 1991 levels for the first time since data collection began; that trend continued into 1997 with the number of assistant professors declining by five percent. The number of assistant professors has declined by 18 percent since 1991.

Since 1991, postdoctoral personnel have experienced the greatest percentage growth with a 87 percent increase in numbers (Table 4). Academic staff, directors and technical staff experienced the next highest growth rate with a 43 percent increase. While the number of student research assistants increased by five percent from 1991 to 1997, the number of student research assistants in 1997 were 12 percent less than the number in 1996. *This recent trend is of concern since these positions reflect the number of graduate students supported in research positions.* In 1996, graduate teaching assistants experienced their first decline since data collection began in 1991; this trend continued into 1997.

Overall, the total number of SEM personnel in 1997 was 3,887, which was a six percent increase from the 1991 number of 3,656. However, Table 4 also shows that the total number of SEM personnel in 1997 was at its lowest level since 1992. See Appendix B for further information on the SEM personnel by year and institution.

**Table 4**  
**NUMBER OF SEM PERSONNEL:**  
**KSU, KU, and WSU Combined**

---

	1991	1994	1996	1997	<u>Percent Change</u>	
					1996-97	1991-97
Professor	557	559	542	540	0%	-3%
Associate Professor	334	327	354	360	2%	8%
Assistant Professor	340	351	293	279	-5%	-18%
Acad. Staff, Directors & Technical Staff	376	495	474	539	14%	43%
<i>Subtotal:</i>	<i>1,607</i>	<i>1,732</i>	<i>1,663</i>	<i>1,718</i>	<i>3%</i>	<i>7%</i>
Research Associates & Assistants	341	310	328	350	7%	3%
Post Doctoral	45	52	73	84	15%	87%
Graduate Teaching Assistants	846	911	900	877	-3%	4%
Student Research Assistants	817	1,065	978	858	-12%	5%
<i>Subtotal:</i>	<i>2,049</i>	<i>2,338</i>	<i>2,279</i>	<i>2,169</i>	<i>-5%</i>	<i>6%</i>
<b>TOTAL</b>	<b>3,656</b>	<b>4,070</b>	<b>3,942</b>	<b>3,887</b>	<b>-1%</b>	<b>6%</b>

---

Source: Institutional databases.

## Faculty Salaries

Low salaries place Kansas' doctoral granting institutions in a less competitive position for attracting and retaining quality faculty. Faculty salaries in Kansas continued to be lower than the average salaries of faculty at peer institutions (Table 5).<sup>6</sup> In comparison to 1996 data<sup>7</sup>, KU salaries declined slightly from 90 percent in 1996 to 88 percent of salaries at peer institutions in 1998. KSU faculty salaries increased from 86 percent for 1996 to 88 percent for 1998. WSU salaries also increased from 90 percent to 92 percent of salaries at peer institutions.

**Table 5**  
**COMPARISON OF PEER INSTITUTIONS' AVERAGE FACULTY SALARY**  
**FY 1998**

	KSU	KU	WSU
Weighted average *	\$50,042	\$55,818	\$47,752
Weighted average of peer institutions	\$56,838	\$63,287	\$51,803
Kansas institutions as % of peer institutions	88.0%	88.2%	92.2%

*\*Includes instructors, assistant, associate, and full professors.*

Source: Institutional databases.

<sup>6</sup>KSU's peer institutions are Colorado State University, Iowa State University, North Carolina State University, Oklahoma State University and Oregon State University. KU's peer institutions are University of Colorado, University of Iowa, University of North Carolina, University of Oklahoma and the University of Oregon. WSU's peer institutions are Portland State University, University of Akron, University of Nevada – Las Vegas, Oakland University, and Old Dominion.

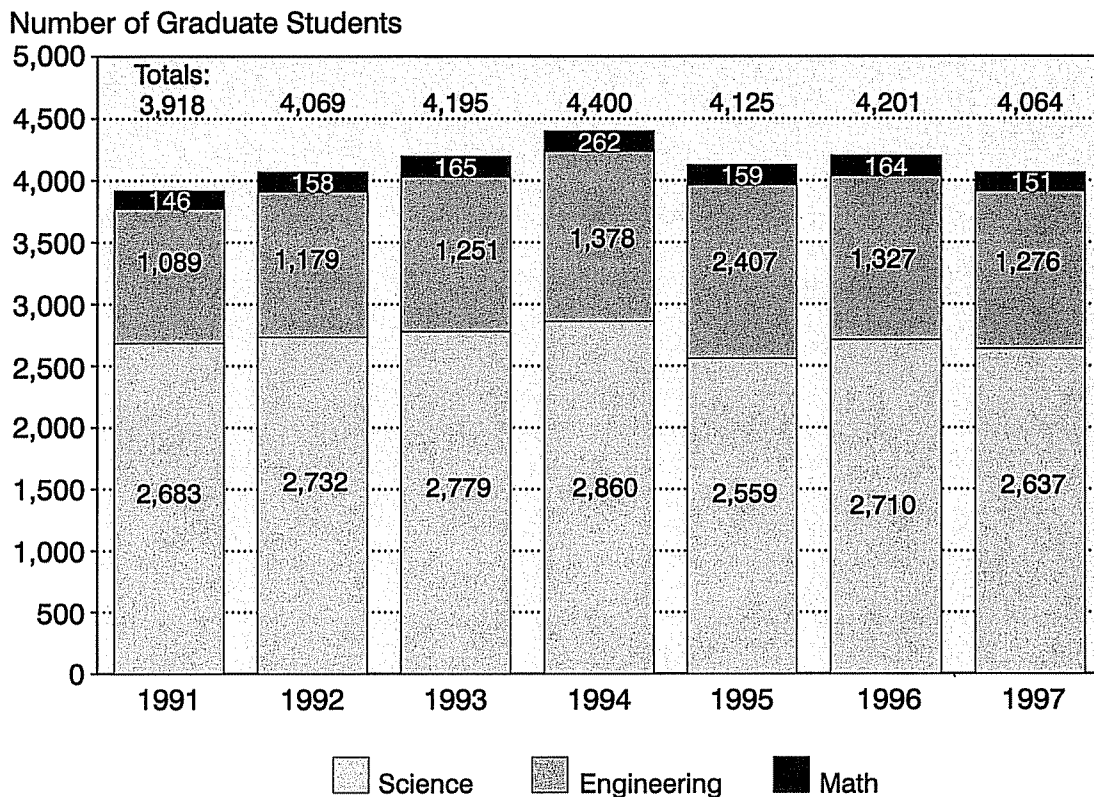
<sup>7</sup> Genna M. Ott, *Sixth Assessment of the Science, Engineering, and Math Infrastructure at Three Universities in Kansas*, IPPBR, the University of Kansas, Report No. 243, December 1997, Table 6.

## Graduate Enrollment

Figure 4 shows that graduate enrollment in science, engineering and math decreased from 1996 to 1997. Graduate SEM enrollment in 1997 was 4,4064, a three percent decrease from 4,201 in 1996 (Table 6). Graduate enrollment declined in all three areas - science, engineering and math - from 1996 to 1997. Enrollment in 1997 showed a four percent decrease over 1997 enrollment in engineering, a three percent decrease in science, and an eight percent decrease in math.

Compared to 1991 (Table 6), SEM graduate enrollment in 1997 was up by four percent with a strong increase in engineering (17 percent). However, engineering graduate enrollment figures for 1997 are at their lowest level since 1993. The overall increase in engineering was due to a 24 percent increase at KSU and a 58 percent increase at WSU (see Appendix C).

Figure 4  
Science, Engineering, and Math Graduate Enrollment



Source: Institutional databases.

**Table 6**  
**SEM GRADUATE ENROLLMENT**

STATE:	1991	1994	1996	1997	% Change	
					1996-97	1991-97
Science	2,683	2,860	2,710	2,637	-3%	-2%
Engineering	1,089	1,378	1,327	1,276	-4%	17%
Math	146	162	164	151	-8%	3%
<b>TOTAL</b>	<b>3,918</b>	<b>4,400</b>	<b>4,201</b>	<b>4,064</b>	<b>-3%</b>	<b>4%</b>

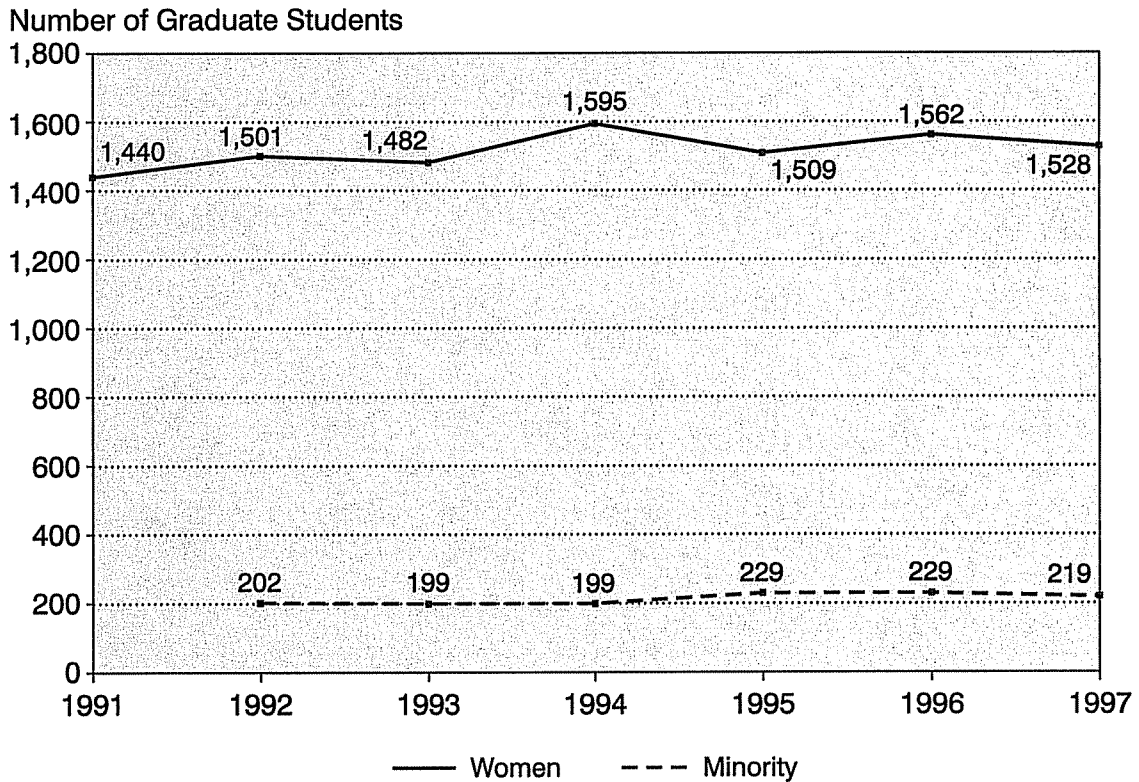
Source: Institutional databases.

Figure 5 shows declines in the number of women and minority graduate students enrolled in 1997 compared to 1996. The number of women enrolled in graduate school has fluctuated with an overall trend of increase from 1,440 in 1991 to 1,528 in 1997. The number of minority graduate students has ranged from 199 to 229 with 219 minority graduate students enrolled in 1997.

Table 7 presents the number of SEM women graduate students enrolled. A comparison of 1991 to 1997 female graduate students enrolled shows that engineering saw a dramatic increase in females with a 33 percent increase (or 43 more females). Math enrollment for females was also up from 40 in 1991 to 51 in 1997. Science enrollment was up three percent from 1,271 in 1991 to 1,305 in 1997. Figure 5 shows that female graduate enrollment was at its highest in 1994 with 1,358 females enrolled. Total SEM graduate enrollment increased four percent from 1991 to 1997 while female enrollment increased six percent during the same time period (Table 7). As a percent of total SEM graduate enrollment, female enrollment has held fairly steady at 36 to 38 percent.

Table 8 presents similar data for minority graduate enrollment. The number of minority graduate students enrolled in 1997 in the sciences has increased eight percent over 1992 levels compared to a four percent increase in total enrollment for the same time period. In 1997, minorities comprised a little over five percent of the total SEM graduate enrollment. Compared to 1996, 1997 minority enrollment declined by three percent with gains in science being offset by the loss in engineering. See Appendix C for further information on SEM graduate student enrollment by year and by institution.

Figure 5  
**Science, Engineering, and Math  
 Women and Minority Graduate Enrollment**



Source: Institutional databases.

Table 7  
**SEM WOMEN GRADUATE ENROLLMENT**

STATE:	1991	1994	1996	1997	% Change	
					1996-97	1991-97
Science	1,271	1,358	1,334	1,305	-2%	3%
Engineering	129	182	183	172	-6%	33%
Math	40	55	45	51	13%	28%
<b>Total Women</b>	<b>1,440</b>	<b>1,595</b>	<b>1,562</b>	<b>1,528</b>	<b>-2%</b>	<b>6%</b>
<i>Total Enroll.</i>	<i>3,918</i>	<i>4,400</i>	<i>4,201</i>	<i>4,064</i>	<i>-3%</i>	<i>4%</i>
<b>% Women</b>	<b>36.8%</b>	<b>36.3%</b>	<b>37.2%</b>	<b>37.6%</b>		

Source: Institutional databases.

**Table 8**  
**SEM MINORITY GRADUATE ENROLLMENT**

---

STATE*:	1992	1994	1996	1997	% Change	
					1996-97	1992-97*
Science	145	135	137	154	12%	6%
Engineering	50	56	84	56	-33%	12%
Math	7	8	8	9	<i>n.a.</i>	<i>n.a.</i>
<b>Total Minority</b>	<b>202</b>	<b>199</b>	<b>229</b>	<b>219</b>	<b>-4%</b>	<b>8%</b>
<i>Total Enroll.</i>	<i>4,069</i>	<i>4,400</i>	<i>4,201</i>	<i>4,064</i>	<i>-3%</i>	<i>4%</i>
<b>% Minority</b>	<b>4.96%</b>	<b>4.52%</b>	<b>5.45%</b>	<b>5.39%</b>		

*\*KSU ethnic data not available for 1991. Unable to calculate state totals.  
n.a. = not applicable. Percent change not calculated (numbers too small to generate a meaningful percent change).*

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Source: Institutional databases.

Funding for graduate students declined slightly in 1997 (Table 9). Both the number of graduate students enrolled and supported declined from 1996 to 1997. This resulted in an overall decrease in the percent of graduate students receiving financial support from 54 percent in 1996 to 53 percent in 1997. KSU supported 80 percent of its SEM graduate students in 1997 compared to 56 percent for KU and 22 percent for WSU.



**Table 9**  
**POST GRADUATES\* RECEIVING FINANCIAL SUPPORT**  
**COMPARED TO GRADUATE ENROLLMENT**

---

	1991	1994	1996	1997
<b>KSU</b>				
Supported	841	1,057	1,070	1,016
Enrolled	1,216	1,442	1,398	1,277
% Supported	69%	73%	77%	80%
<b>KU</b>				
Supported	1,003	1,039	956	895
Enrolled	1,702	1,880	1,701	1,594
% Supported	59%	55%	57%	56%
<b>WSU</b>				
Supported	205	242	253	258
Enrolled	1,000	1,078	1,102	1,193
% Supported	21%	22%	23%	22%
<b>State</b>				
Supported	2,049	2,338	2,279	2,169
Enrolled	3,918	4,400	4,201	4,064
% Supported	52%	53%	54%	53%

*\*Includes research associates/assistants, post docs, graduate teaching assistants, student research assistants. Student hourly positions are not included in the count of graduate students receiving support. Also, graduate students must be enrolled full-time to receive teaching or research assistantships. For example, 38 percent were part-time enrollment at KSU 1994 and were not eligible for assistantships.*

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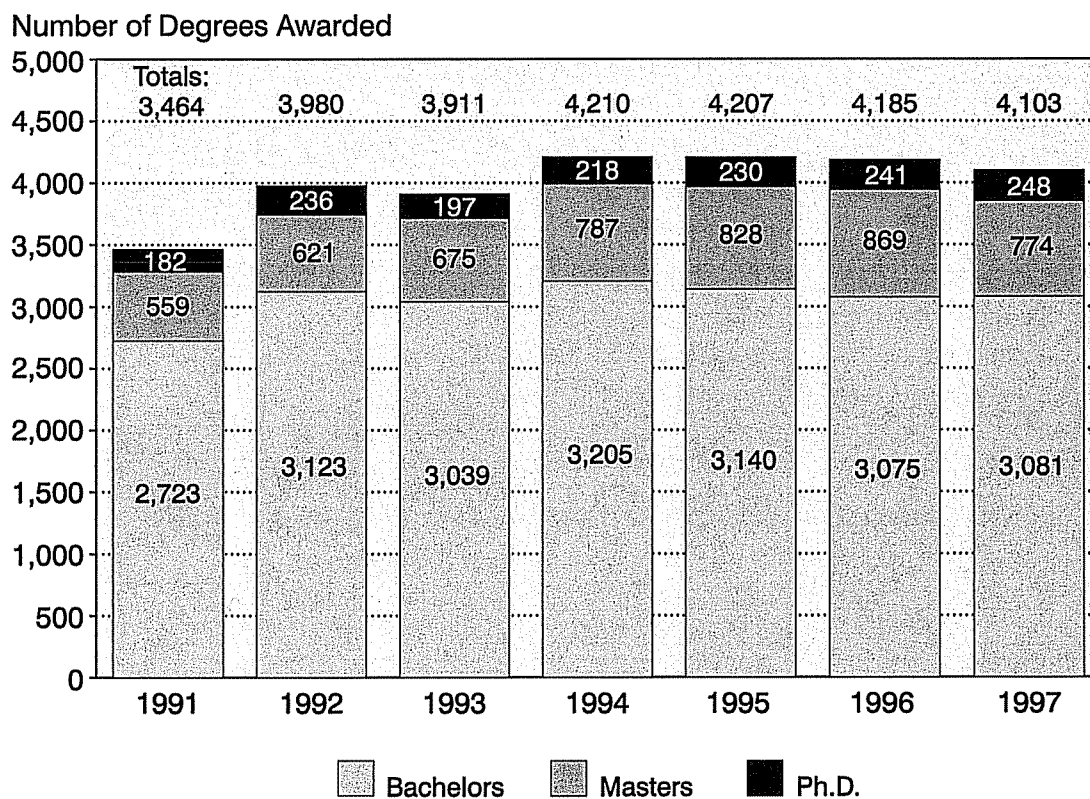
Source: Institutional databases.

## Degrees Awarded

Figure 6 presents the number of science, engineering and math degrees awarded from 1991 to 1997 and shows that the number of degrees awarded has been above 4,000 since 1994. From 1991 to 1997, the number of Ph.D. degrees awarded increased 36 percent, the number of masters' degrees increased 38 percent, and the number of bachelor degrees increased 13 percent (Table 10). The number of Ph.D. and Master degrees awarded in 1997 increased over 1996 levels while number of Master degrees awarded decreased.

Table 11 shows an increase in the number of Ph.D. degrees awarded at KSU from 80 in 1991 to 119 in 1997. Ph.D. degrees awarded at KU increased from 93 to 103 for the same time period. WSU saw an increase from 9 Ph.D. awards in 1991 to 26 in 1997 for SEM.

Figure 6  
Science, Engineering, and Math Degrees Awarded



Source: Institutional databases.

**Table 10**  
**SEM DEGREES AWARDED: KSU, KU, AND WSU**

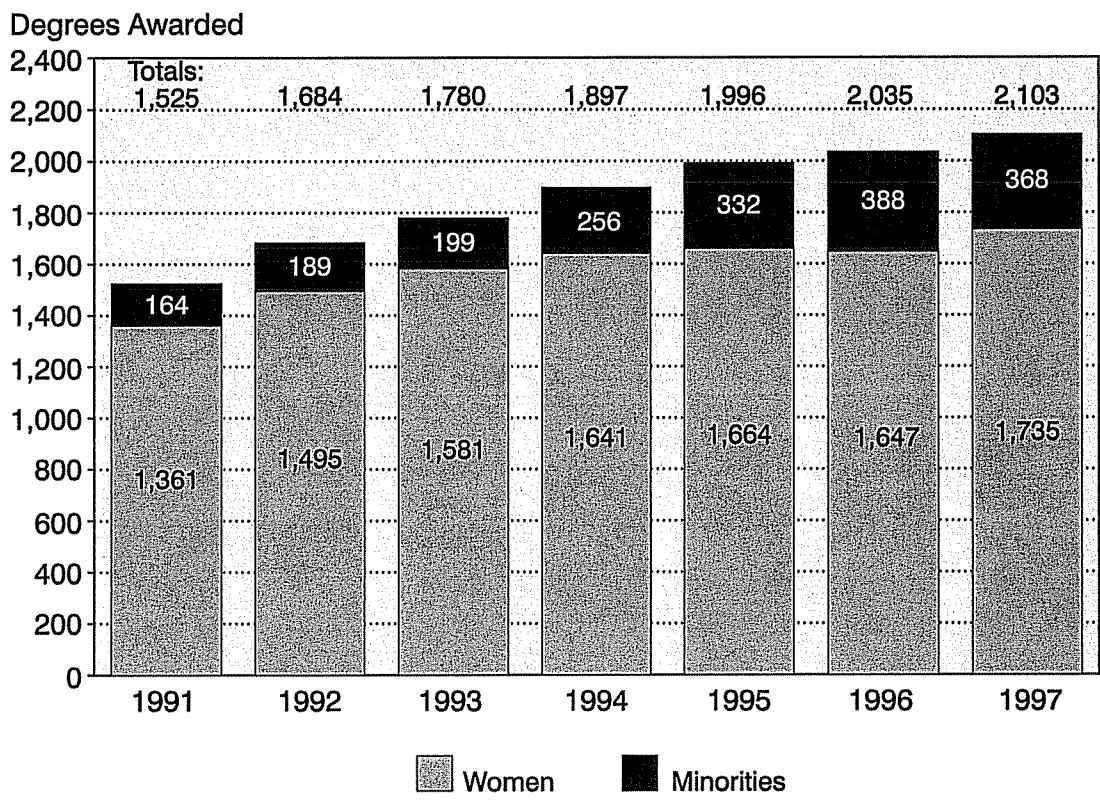
STATE:	1991	1994	1996	1997	<u>% Change</u>	
					1996-97	1991-97
<b>Total Population</b>						
Ph.D.	182	218	241	248	3%	36%
Master	559	787	869	774	-11%	38%
Bachelor	2,723	3,205	3,075	3,081	0%	13%
<i>Subtotal</i>	<i>3,464</i>	<i>4,210</i>	<i>4,185</i>	<i>4,103</i>	<i>-2%</i>	<i>18%</i>
<b>Women Only</b>						
Ph.D.	40	57	64	90	41%	125%
Master	210	327	334	298	-11%	42%
Bachelor	1,111	1,257	1,249	1,347	8%	21%
<i>Subtotal</i>	<i>1,361</i>	<i>1,641</i>	<i>1,735</i>	<i>1,735</i>	<i>5%</i>	<i>27%</i>
<b>% Women</b>	<b>39%</b>	<b>39%</b>	<b>39%</b>	<b>42%</b>		
<b>Minorities Only*</b>						
Ph.D.	1	9	19	18	-5%	*
Master	16	29	58	53	-9%	
Bachelor	147	218	311	297	-5%	
<i>Subtotal</i>	<i>164</i>	<i>256</i>	<i>388</i>	<i>368</i>	<i>-5%</i>	
<b>% Minorities</b>	<b>5%</b>	<b>6%</b>	<b>9%</b>	<b>9%</b>		

\*KSU ethnic data for science and math were not available from the institution's database until 1995.

Source: Institutional databases.

Figure 7 shows the slow but steady increase in number of degrees awarded to women and minorities from 1991 to 1997. Women comprise 42 percent of the number of Ph.D. degrees awarded in 1997 while minorities comprise nine percent of the degrees awarded (Table 10). The number of minorities earning Ph.D. degrees in 1997 declined five percent from 1996 and the number of women earning a Ph.D. degree increased five percent. See Appendix D for further information regarding degrees awarded at the three universities.

**Figure 7**  
**Degrees Awarded to Women and Minorities**



Source: Institutional databases.

Table 11  
SEM PH.D. DEGREES AWARDED BY INSTITUTION

STATE:	1991	1994	1996	1997	<u>% Change</u>	
					1996-97	1991-97
<b>Total Population</b>						
KSU	80	97	110	119	8%	49%
KU	93	97	108	103	-5%	11%
WSU	9	24	23	26	<i>n.a.</i>	<i>n.a.</i>
<i>Subtotal</i>	<i>182</i>	<i>218</i>	<i>241</i>	<i>248</i>	<i>3%</i>	<i>36%</i>
<b>Women Only</b>						
KSU	15	14	19	31	<i>n.a.</i>	<i>n.a.</i>
KU	23	37	40	44	10%	91%
WSU	2	6	5	5	<i>n.a.</i>	<i>n.a.</i>
<i>Subtotal</i>	<i>40</i>	<i>57</i>	<i>64</i>	<i>80</i>	<i>25%</i>	<i>100%</i>
% Women	22%	26%	27%	32%		
<b>Minorities Only*</b>						
KSU	*	*	10	11	<i>n.a.</i>	<i>n.a.</i>
KU	1	3	6	5	<i>n.a.</i>	<i>n.a.</i>
WSU	0	6	3	2	<i>n.a.</i>	<i>n.a.</i>
<i>Subtotal</i>	<i>9</i>	<i>19</i>	<i>18</i>	<i>n.a.</i>	<i>n.a.</i>	
% Minorities	1%	4%	8%	7%		

\*KSU ethnic data for science and math were not available from the institution's database until 1995.  
*n.a.* = not applicable. Percent change not calculated (numbers too small to generate a meaningful percent change).

Source: Institutional databases.

## SCIENCE, ENGINEERING, AND MATH GRANT ACTIVITY

### Grant Database

The following guidelines were used to compile the grant database<sup>8</sup>:

1. Multi-year awards were counted once in the year awarded (e.g., a three-year \$300,000 grant awarded was counted as one \$300,000 grant, not as three \$100,000 grants).<sup>9</sup>
2. Grants with more than one investigator were counted once as the “lead” PI’s grant.
3. Grants submitted in one fiscal year but awarded in the next fiscal year were counted in the year submitted.
4. Grants submitted in one fiscal year, not funded, then resubmitted in another fiscal year were counted as a new submission.
5. Competitive renewals or continuations were counted as new grant submissions.
6. Grants pending after two years were considered “rejected” or not funded.

### NSF Submissions and Awards

*Kansas.* In FY 1997, 19 percent of all federal R&D academic obligations in Kansas came from NSF (Figure 8). NSF funding is second to HHS (Health and Human Services), which funds 38 percent of the federal research and development in Kansas.

Figure 9 shows that the number of grants submitted to NSF by SEM faculty increased every year except for 1993 and the number awarded has also followed the same pattern. The number awarded in FY 1996 was 130 while the number awarded in FY 1997 was 160, a 20 percent increase (Table 12). The number of awards in FY 1997 increased by 98 percent over FY 1991 levels.

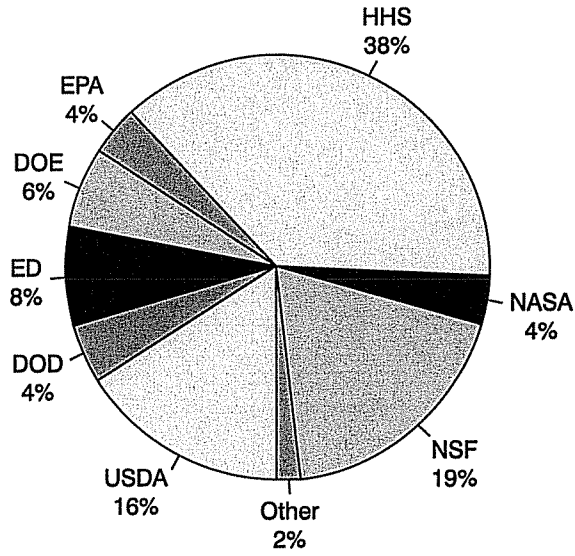
Figure 10 shows that the total dollars requested reached its highest level in 1995 with \$70.79 million. However, a high of \$13.92 million dollars awarded was experienced in 1997.

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<sup>8</sup> The KU grant data reported for FY96 and FY97 are expenditure data, not award data, and do therefore not meet the first database guideline. The University of Kansas’ Research and Support was reorganized under the Center for Research, Inc. Due to this reorganization, KU was not able to report award data. Consequently, caution must be exhibited in comparing KU’s data for FY96 and FY97 to previous years’ data as well as to KSU and WSU data.

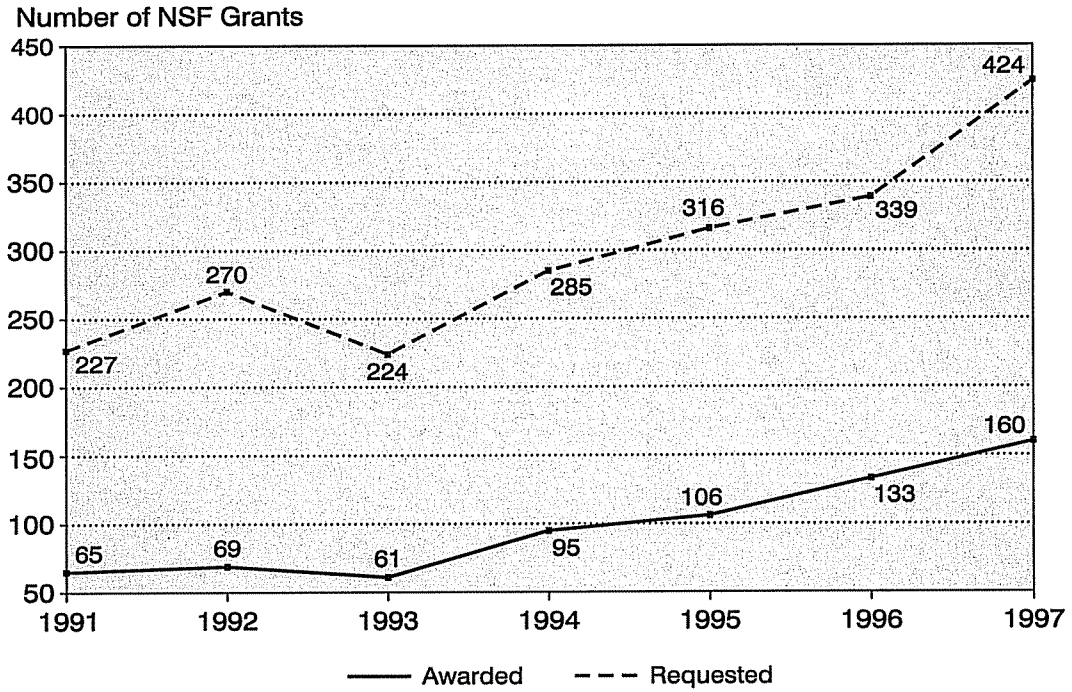
<sup>9</sup> The NSF EPSCoR grant (1995) to KU’s Engineering is classified as a cooperative agreement. Although it is subject to a competitive renewal process, it is not given a new award number by NSF and is therefore classified as a multi-year award.

Figure 8  
Federal R&D Academic Obligations in Kansas, by Agency  
FY 1997 Total \$85,158,000



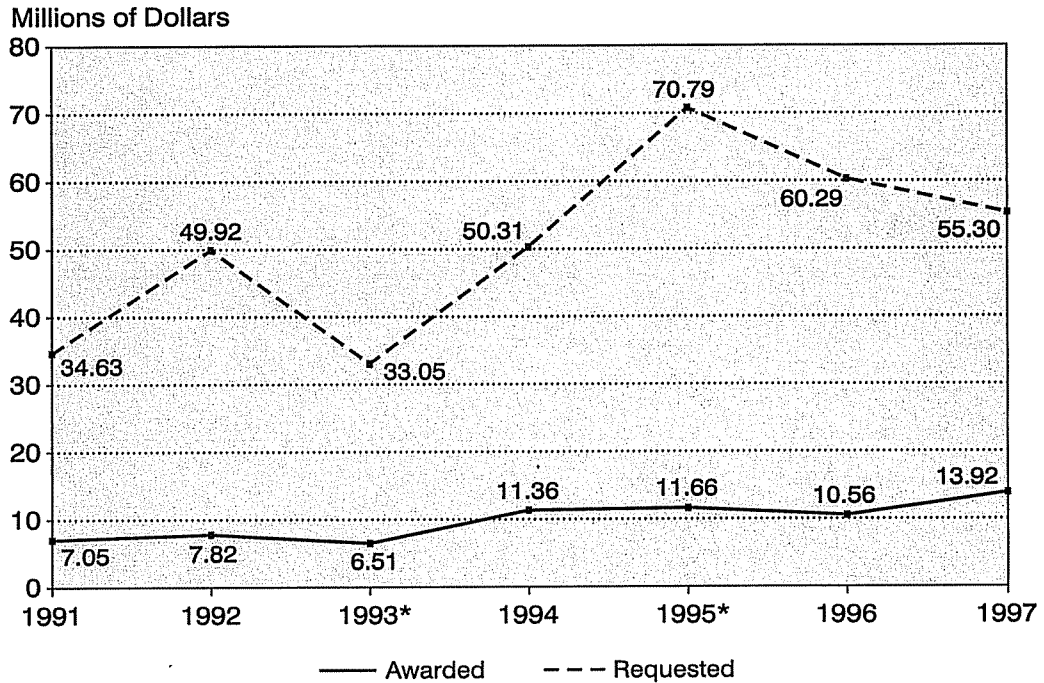
Source: National Science Foundation/SRS.

Figure 9  
 Number of Science, Engineering, and Math NSF Grants



Source: Institutional databases.

Figure 10  
 Science, Engineering, and Math NSF Grant Dollars



Source: Institutional databases.  
 \*Does not include NSF EPSCoR.



Total dollars awarded from NSF increased 32 percent from \$10,520,010 in FY 1996 to \$13,915,488 in FY 1997 (Table 12).<sup>10</sup> When adjusted for inflation, the dollars awarded from FY 1996 to FY 1997 saw a 29 percent increase. Dollars awarded in 1997 increased by 98 percent over FY 1991 levels or 68 percent when adjusted for inflation.<sup>11</sup> See Appendix E for complete NSF grant activity data by year and by institution.

Table 12  
NSF GRANT ACTIVITY: FY 1991 – FY 1997

FY	Total Awarded		Adjusted for Inflation** (in 1997 dollars)	Total Requested	
	No.	Dollars		No.	Dollars
1991	65	\$7,045,285	(\$8,302,263)	227	\$34,633,129
1992	69	\$7,820,123	(\$8,946,042)	270	\$49,918,486
1993*	61	\$6,511,766	(\$7,232,792)	224	\$33,051,331
1994	95	\$11,358,257	(\$12,300,946)	285	\$50,310,712
1995*	106	\$11,661,977	(\$12,281,806)	316	\$70,793,503
1996*	133	\$10,562,010	(\$10,804,351)	339	\$60,290,142
1997*	160	\$13,915,488	(\$13,915,488)	424	\$55,300,122

% CHANGE:					
FY	Total Awarded		Adjusted for Inflation (in 1997 dollars)	Total Requested	
	No.	Dollars		No.	Dollars
96-97	20%	32%	(29%)	25%	-8%
91-94	46%	61%	(48%)	26%	45%
91-97	146%	98%	(68%)	87%	60%

\*NSF EPSCoR not included. NSF EPSCoR 1997=\$1,556,400. NSF EPSCoR 1996=\$1,500,000  
NSF EPSCoR 1995=\$3,056,400. NSF EPSCoR 1993=\$4,400,000.  
\*\*Adjusted for Inflation Equation: final year dollars = initial year dollars \* (final year cpi)/(initial year cpi), where  
cpi91=136.2, cpi92=140.3, cpi93=144.5, cpi94=148.2, cpi95=152.4, cpi96=156.9 and cpi97=160.5.

Source: Institutional databases and Bureau of Labor Statistics, Consumer Price Index-All Urban Consumers, Series ID CUUR0000SA0, Base Period: 1982-84=100.

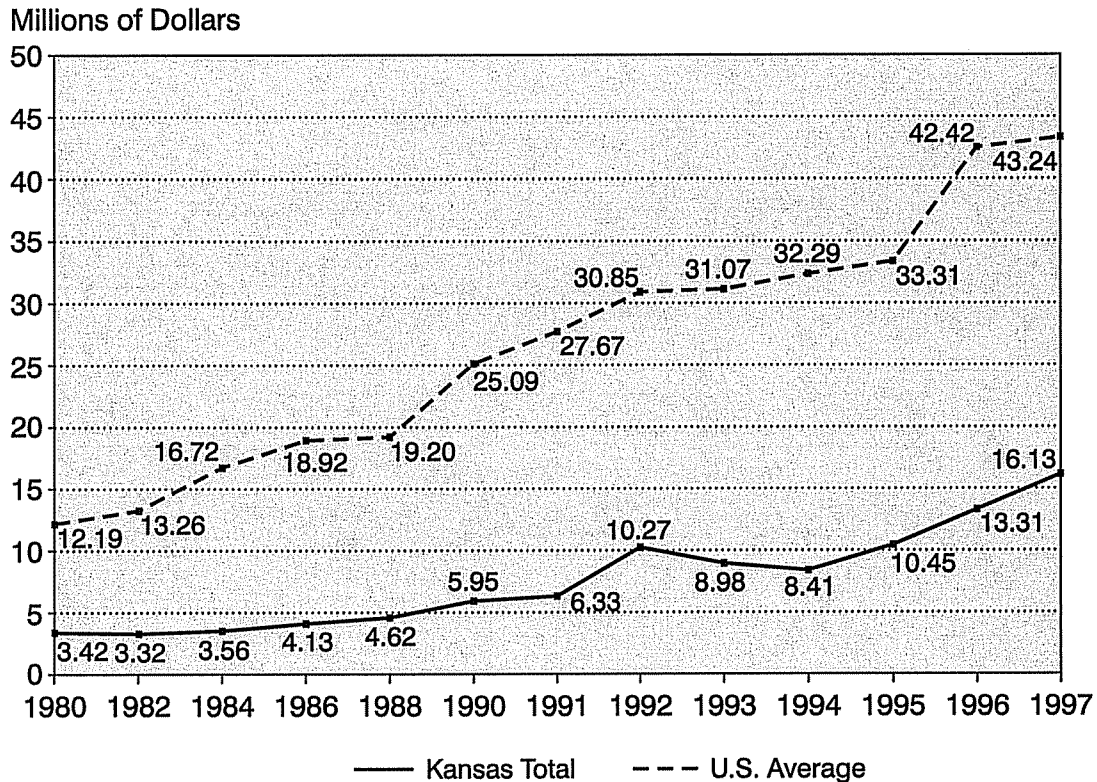
<sup>10</sup> NSF EPSCoR funding is not included in the totals reported in Table 12 for FY 1993 and FY 1995.

<sup>11</sup> Dollars awarded are adjusted for inflation to 1997 dollars.

*Nation.* While NSF funding trends could be considered encouraging, Kansas still has not reached competitive levels. Figure 11 shows NSF funding awarded to academic institutions in Kansas falls well below the US average for NSF R&D academic obligations and the gap between Kansas and the U.S. average is not getting smaller. The US average was approximately \$43 million in FY 1997 compared to a little over \$16 million awarded to Kansas.

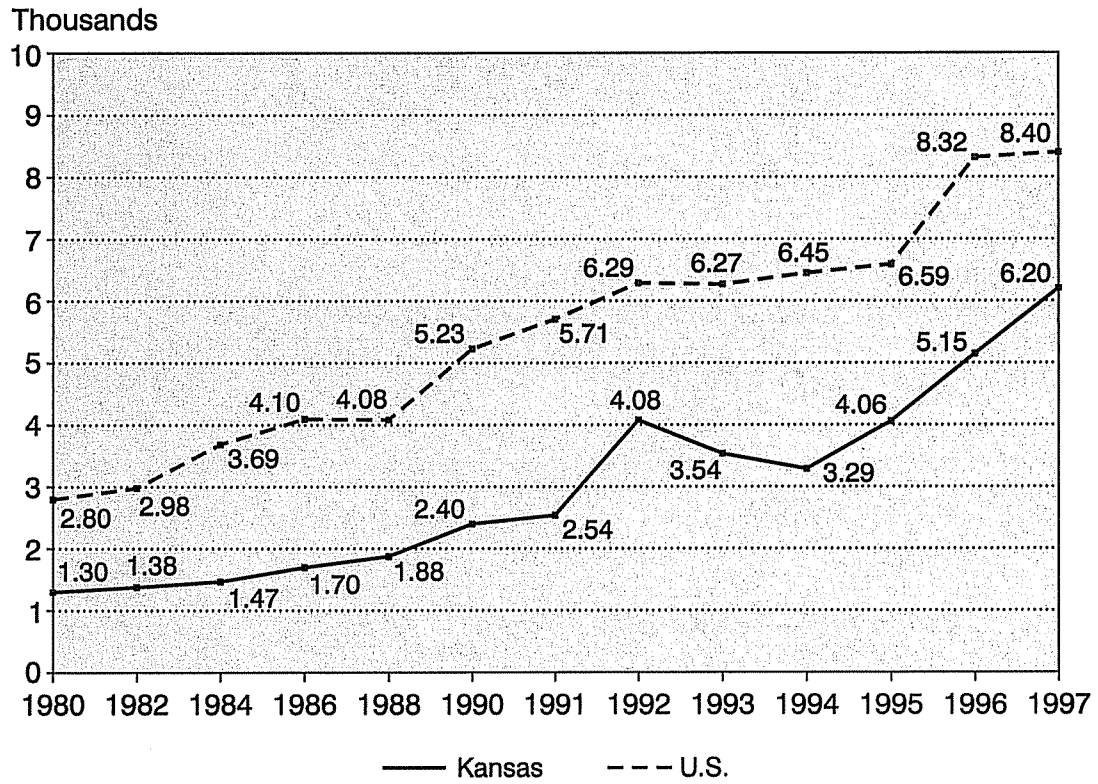
Even when taking into account the smaller size of the state, Kansas has not competed successfully for its share of NSF R&D dollars. Figure 12 shows that Kansas was well below the U.S. average in dollars awarded per 1000 population. For FY 1997, the U.S. average was approximately \$8,400 per 1,000 population compared to \$6,200 for Kansas.

Figure 11  
NSF R&D Academic Obligations, FY 1980 - FY 1997



Source: National Science Foundation/SRS.

Figure 12  
 Total NSF R&D Academic Obligations  
 Per 1,000 Population, FY 1980 - FY 1997



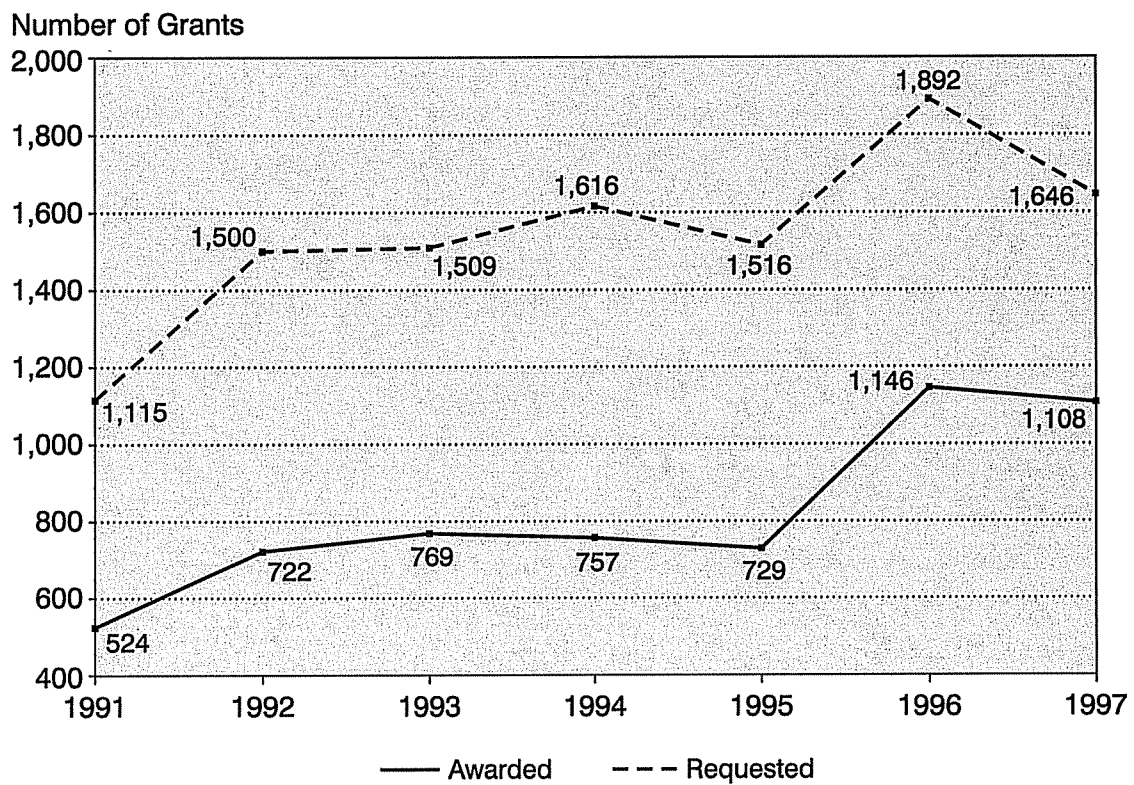
Source: National Science Foundation/SRS.

## Total Grants Submitted and Awarded

*Kansas.* The number of proposals submitted (total requested) by SEM faculty to all agencies and funding sources has risen and dipped with an overall upward trend (Figure 13). Not surprisingly, the number of grants awarded has followed a similar pattern. The total grant dollars requested peaked in 1994 while the total grant dollars awarded in 1996 and 1997 are the highest Kansas has seen (Figure 14).

Figure 13

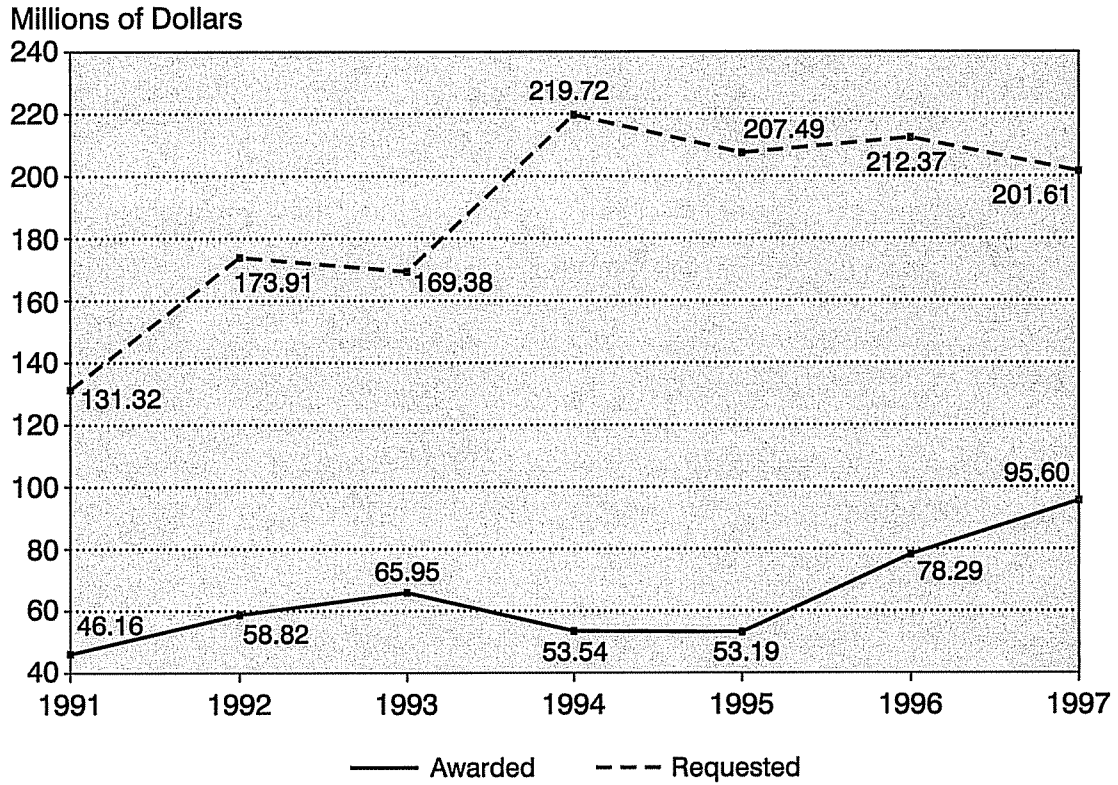
### Number of Science, Engineering, and Math Grants: All Agencies



Source: Institutional databases.

Figure 14

**Science, Engineering, and Math Total Grant Dollars Awarded:  
All Agencies**



Source: Institutional databases.  
\*Does not include NSF EPSCoR.

Table 13 presents the total number of grants awarded to Kansas SEM faculty. The total number of grants awarded decreased three percent from 1,146 in FY 1996 to 1,108 in FY 1997. However, dollars awarded in FY 1997 increased 22 percent over FY 1996 levels. The number of grants awarded in FY 1997 had increased 111 percent over FY 1991 and dollars awarded had increased 106 percent or 76 percent when adjusted for inflation.<sup>12</sup> Appendix F presents detailed grant information by year and by institution.

Table 13  
TOTAL GRANT ACTIVITY

FY	Total Awarded		Adjusted for Inflation** (in 1997 dollars)	Total Requested	
	No.	Dollars		No.	Dollars
1991	524	\$46,164,830	(\$54,401,286)	1,115	\$131,315,876
1992	722	\$58,824,989	(\$67,294,446)	1,500	\$173,912,328
1993*	769	\$65,949,700	(\$73,252,089)	1,509	\$169,375,113
1994	757	\$53,538,499	(\$57,891,978)	1,616	\$219,719,025
1995*	729	\$53,187,571	(\$56,014,469)	1,516	\$207,488,252
1996*	1,146	\$78,291,580	(\$80,087,945)	1,892	\$212,368,197
1997*	1,108	\$95,601,563	(\$95,601,563)	1,646	\$201,614,670

% CHANGE:

FY	Total Awarded			Total Requested	
	No.	Dollars	(Adjusted for Inflation)	No.	Dollars
96-97	-3%	22%	(19%)	-13%	-5%
91-94	44%	16%	(7%)	45%	67%
91-97	111%	107%	(76%)	48%	54%

\*NSF EPSCoR not included. NSF EPSCoR 1997=\$3,101,400. NSF EPSCoR 1996=\$3,000,000.

NSF EPSCoR 1995=\$3,056,400. NSF EPSCoR 1993=\$4,400,000.

\*\*Adjusted for Inflation Equation: final year dollars = initial year dollars \* (final year cpi)/(initial year cpi), where cpi91=136.2, cpi92=140.3, cpi93=144.5, cpi94=148.2, cpi95=152.4, cpi96=156.9 and cpi97=160.5.

Source: Institutional databases and Bureau of Labor Statistics, Consumer Price Index-All Urban Consumers, Series ID CUUR0000SA0, Base Period: 1982-84=100.

<sup>12</sup> Dollars awarded are adjusted for inflation in 1997 dollars.

*Nation.* Table 14 shows Kansas academic institutions received more federal dollars in FY 1997 than Nebraska and Oklahoma, and ranked below all neighboring states except Oklahoma in R&D dollars per capita. When corrected for the smaller population, and hence smaller number of faculty applying for grants, Kansas funding levels were also well below the national average (Figure 15). For FY 1997, the U.S. federal R&D funding per 1,000 was \$56,390 compared to Kansas' \$32,730. Figure 15 also illustrates that the gap between Kansas and the U.S. average is getting larger.

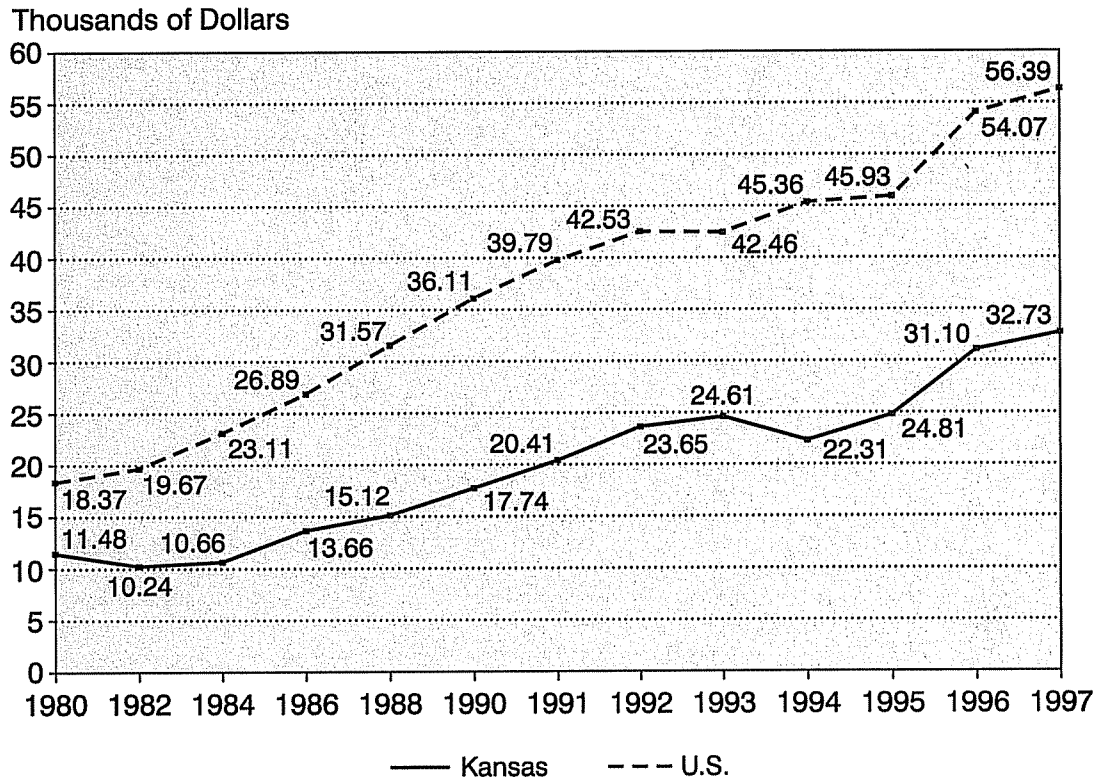
**Table 14**  
**FEDERAL RESEARCH AND DEVELOPMENT ACADEMIC OBLIGATIONS**  
**BY STATE**

State	FY 1990 (millions \$)	FY 1997 (millions \$)	\$ per capita FY 1990	\$ per capita FY 1997	\$ per capita % Change
Colorado	\$ 169	\$ 319	\$ 51	\$ 82	60%
Missouri	170	309	33	57	72
Iowa	107	173	38	61	57
<b>Kansas*</b>	<b>44</b>	<b>85</b>	<b>18</b>	<b>33</b>	<b>87</b>
Oklahoma	36	84	11	25	121
Nebraska	29	66	18	40	117
U.S. Total*	\$9,008	\$15,081	\$ 36	\$ 56	56%

\*1997 Kansas Population (in thousands) = 2,601. 1995 U.S. Population (in thousands) = 267,744.

Source: National Science Foundation/SRS, Survey of Federal Science and Engineering Support to Universities, Colleges, and Non-profit Institutions, Fiscal Year 1997 and U.S. Bureau of the Census, Population Estimates, December 1998.

Figure 15  
**Total Federal R&D Academic Obligations  
 Per 1,000 Population, FY 1980 - FY1997**

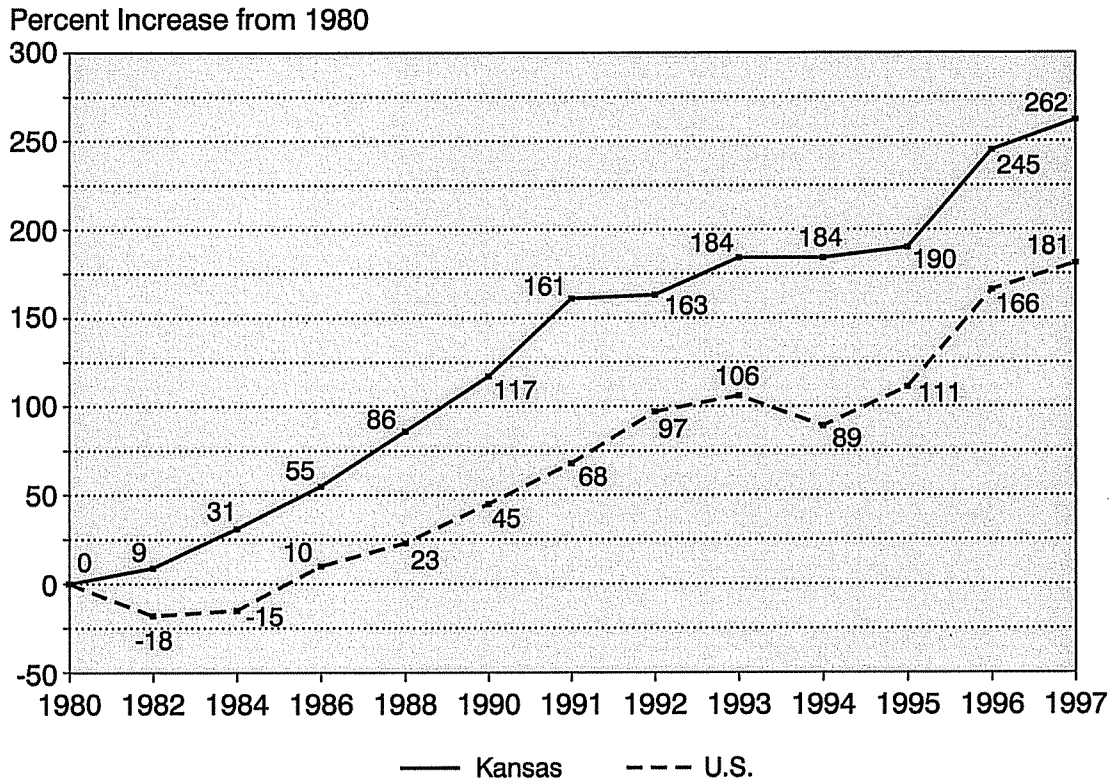


Source: National Science Foundation/SRS.

Figure 16 shows that, in the early 1980s, Kansas lost ground in the competition for federal R&D academic obligations. In recent years, the state's increase paralleled the national trend, but did not close the gap created a decade ago. And in 1994, the gap actually widened as the percent increase in Kansas declined while the U.S. total continued to increase.



Figure 16  
 Percent Increase in Federal R&D Academic Obligations,  
 FY 1980 - FY 1997



Source: National Science Foundation/SRS.

Table 15 presents the R&D expenditures at universities in neighboring states in FY 1997. Kansas's institutions ranked lower than most neighboring institutions, several of which were also peer institutions. For example, KSU ranked much lower (105) than its peer institutions Iowa State University (48) and Colorado State University (66). KU also ranked lower (81) than the University of Colorado (21), University of Iowa (41) and University of Oklahoma (76), its neighboring peer institutions.

**Table 15**  
**R&D EXPENDITURES IN SCIENCE AND ENGINEERING AT UNIVERSITIES**  
**BY SOURCE OF FUNDS, FY 1997 (Dollars in Thousands)**

---

Neighboring State University	Total* (rank)	\$ Federal Gov.	State & Local Gov.
Colorado	\$ 269,816 (21)	\$192,201	\$4,925
Iowa	184,414 (41)	108,534	5,736
Iowa State	155,433 (48)	52,938	46,699
Missouri	132,432 (62)	35,993	17,895
Colorado State	128,580 (66)	79,393	20,510
Nebraska	117,100 (73)	41,269	38,629
Oklahoma	114,387 (76)	45,756	14,718
<b>Kansas</b>	<b>108,893 (81)</b>	<b>46,733</b>	<b>9,643</b>
Kansas State	76,896 (105)	25,781	31,699**
Oklahoma State	36,649 (141)	21,455	3,275

Wichita State was not included in the listing of the top 200 institutions.  
 WSU Total = \$11,797.

*\*This total includes industry, institutional, and other sources not shown here.*

*\*\*This includes state appropriations for the Agricultural and Engineering Experimental Stations.*

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Source: National Science Foundation/SRS, Survey of Research and Development, Expenditures at Fiscal Year 1997, Table B-35, Early Release Table, November 23, 1998.

## EPSCoR Faculty Grant Activity

The first three-year NSF EPSCoR grant (Phase I) was awarded to the state of Kansas and funded SEM faculty from FY 1992 through FY 1994. The current three-year cooperative agreement (Phase 2) is projected from FY 1996 through FY 1998. The faculty supported by the first grant are referred to as Group I; the faculty funded by the 1995 renewal are referred to as Group II.<sup>13</sup> Grant activity for Group I has been tracked since FY 1992 and will continue to be collected to track their performance. Similar analysis occurs for Group II with data collection starting with FY 1994, before funding by NSF EPSCoR Phase II, in order to determine the effect of EPSCoR support on this group.

Table 16 presents the grant activity of Group I faculty who received NSF EPSCoR funding during the first funding phase. The data include only those grants where faculty served as the principal investigator and do not include NSF EPSCoR awards. The number of proposals submitted has grown steadily from 145 in 1992 to 244 in 1997. The number of awards has also grown steadily from 54 in 1992 to 94 in 1997. The percentage awarded has been good for Group I with 47 percent for 1996 and 39 percent for 1997.

While the number of grants awarded dipped in 1995, Group I faculty experienced steady increases in dollars awarded from 1992 to 1997. The change in dollars awarded from increased 164 percent from approximately \$3.9 million in 1992 to \$10.2 million in 1997. When adjusted for inflation, the dollars awarded to this group from 1992 to 1997 grew 131 percent.

The same data for Group II are presented in Table 17. In FY 1994, before the second group was funded by NSF EPSCoR Phase II, this group submitted 165 proposals and 32 percent were funded for approximately \$5.8 million. The same group submitted 273 proposals in FY 1997 from which 117 proposals were funded for a little over \$12.8 million.

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<sup>13</sup> See Appendix G for a complete listing of faculty in Group I and Group II. Some faculty are no longer with the university and these are noted in the listing. The KU EPSCoR faculty list differs from previous reports.

Table 16  
TOTAL GRANT ACTIVITY OF EPSCoR FUNDED FACULTY: GROUP I

	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996	FY1997
Proposals Submitted*	145	155	174	186	182	244
Grants Awarded	54	67	72	64	85	94
Percent Awarded	37%	43%	41%	34%	47%	39%
Dollars Awarded	\$3.857m	\$4.540m	\$7.171m	\$7.762m	\$8.425m	\$10.193m
Adjusted for Inflation (to 1997 dollars)**	(\$4.412m)	(\$5.043m)	(\$7.766m)	(\$8.175m)	(\$8.618m)	(\$10.193m)
% Change Dollars Awarded:						
1992 to 1997	164%					
(Adjusted for Inflation)	(131%)					
1996 to 1997	21%					
(Adjusted for Inflation)	(18%)					

\*Include only those grants where faculty served as principal investigator. Does not include NSF EPSCoR, D EPSCoR, or EPA EPSCoR.

\*\*Adjusted for Inflation Equation: final year dollars = initial year dollars \* (final year cpi)/(initial year cpi), where cpi92=140.3, cpi93=144.5, cpi94=148.2, cpi95=152.4, cpi96=156.9, and cpi97=160.5.

Source: Institutional databases and Bureau of Labor Statistics, Consumer Price Index-All Urban Consumers, Series ID CUUR0000SA0, Base Period: 1982-84=100.

**Table 17**  
**TOTAL GRANT ACTIVITY OF EPSCoR FUNDED FACULTY: GROUP II**

	FY 1994	FY 1995	FY 1996	FY1997
Proposals Submitted*	165	221	204	273
Grants Awarded	52	61	86	117
Percent Awarded	32%	28%	42%	43%
Dollars Awarded	\$5.846m	\$6.935m	\$8.787m	\$12.849m
Adjusted for Inflation**	(\$6.331m)	(\$7.304m)	(\$8.988m)	(\$12.849m)
% Change Dollars Awarded:				
1994 to 1997	120%			
Adjusted for Inflation	(103%)			
1996 to 1997	46%			
Adjusted for Inflation	(43%)			

\*Includes only those grants where faculty served as principal investigator. Does not include NSF EPSCoR, D EPSCoR, or EPA EPSCoR.

\*\*Adjusted for Inflation Equation:  $final\ year\ dollars = initial\ year\ dollars * (final\ year\ cpi) / (initial\ year\ cpi)$ , where  $cpi92=140.3$ ,  $cpi93=144.5$ ,  $cpi94=148.2$ ,  $cpi95=152.4$ ,  $cpi96=156.9$ , and  $cpi97=160.5$ .

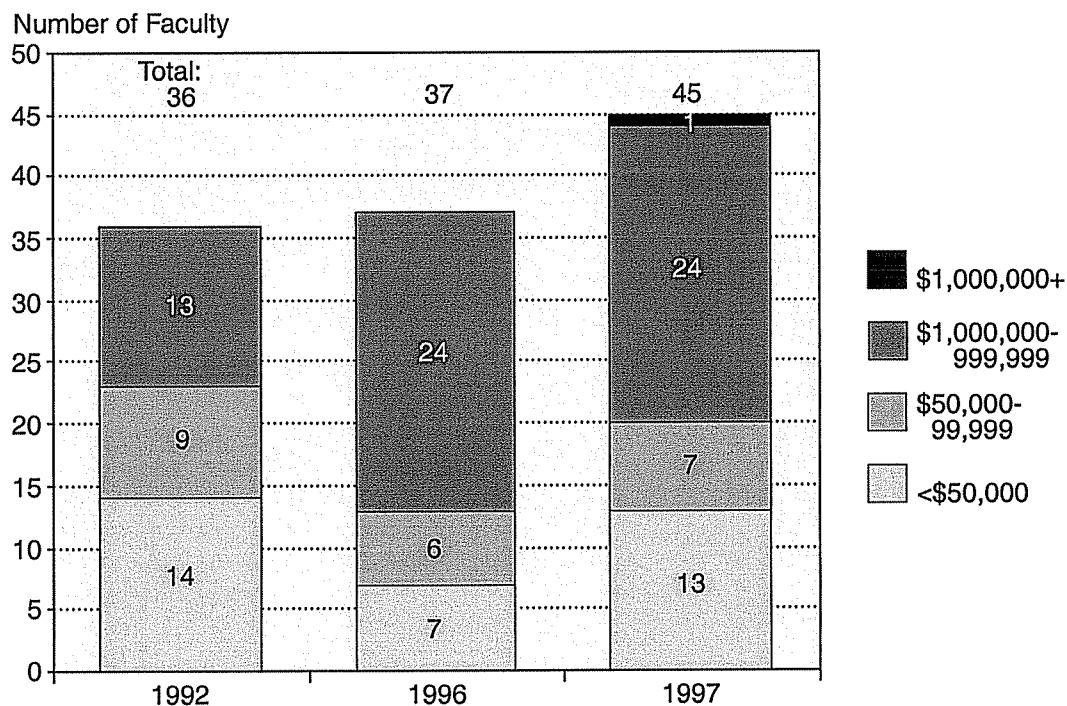
Source: Institutional databases and Bureau of Labor Statistics, Consumer Price Index-All Urban Consumers, Series ID CUUR0000SA0, Base Period: 1982-84=100.

Figure 17 shows how faculty funded by the first EPSCoR grant increased the total dollars awarded to them. In FY 1992, the first year of funding, fourteen EPSCoR funded faculty were awarded grants totaling less than \$50,000, nine were awarded between \$50,000 and \$99,999, and thirteen were awarded grants totaling in the \$100,000 to \$999,999 (Table 18, Figure 17). By FY 1997, funding for Group I increased in the higher ranges with one faculty member being awarded over \$1 million in grants. It appears that KSU EPSCoR faculty members have shown the greatest improvement in obtaining higher level funding as illustrated by the 1996 and 1997 funding levels.

Table 19 begins to track the distribution of dollars awarded to Group II in FY 1994, before NSF EPSCoR II was funded. (Data reported in Tables 18 and 19 do not include NSF EPSCoR, Defense EPSCoR, or EPA EPSCoR funds.) Group II began with 18 of the 33 faculty funded accumulating between \$100,000 and \$999,999 in FY 1994. By FY 1997, 28 of the 46 faculty funded fell within the \$100,000 to \$999,999 range. One faculty member was funded for over \$1 million.<sup>14</sup>

Previous assessments surmised that it would take until FY 1996 before the effects of EPSCoR funding for the first award faculty group would start to show and several years beyond that to see the effects on the second group. The tables on Group I and Group II faculty do show increases in the number of awards and dollar amounts for both groups in 1996 and 1997. This is not surprising considering that Group II does include some faculty that are also part of Group I. (See Appendix G for a listing of Group I and Group II faculty.)

Figure 17  
**Change in Distribution of Total Dollars Awarded to Group I:  
 Number of EPSCoR Faculty within Each Funding Range**



Source: Institutional databases.

<sup>14</sup> Group II does include some faculty members that are also part of Group I funding. The faculty member receiving more than \$1 million in awards is a member of both groups.

**Table 18**  
**EPSCoR FUNDED FACULTY AND DISTRIBUTION OF DOLLARS AWARDED: GROUP I**

Dollars Awarded:	Number of EPSCoR Faculty within Each Funding Range*											
	KSU			KU			WSU			STATE		
	1992	1996	1997	1992	1996	1997	1992	1996	1997	1992	1996	1997
\$1 - \$49,999	6	2	4	5	4	4	3	1	5	14	7	13
\$50,000-\$99,999	3	4	1	6	2	6	0	0	0	9	6	7
\$100,000-\$999,999	8	15	18	5	8	5	0	1	1	13	24	24
\$1,000,000 +	0	0	1	0	0	0	0	0	0	0	0	1
<b>Total:</b>	17	21	24	16	14	15	3	2	6	36	37	45
(Group N)	(30)	(33)	(31)	(34)	(33)	(32)	(16)	(16)	(15)	(80)	(82)	(78)
Percent of Total:	57%	64%	77%	47%	42%	47%	19%	13%	40%	45%	45%	58%

\*Include only those grants where faculty served as principal investigator. Does not include NSF EPSCoR, D EPSCoR, or HPA EPSCoR.

Source: Institutional databases.

**Table 19**  
**EPSCoR FUNDED FACULTY AND DISTRIBUTION OF DOLLARS AWARDED: GROUP II**

Dollars Awarded:	Number of EPSCoR Faculty within Each Funding Range*											
	KSU			KU			WSU			STATE		
	1994	1996	1997	1994	1996	1997	1994	1996	1997	1994	1996	1997
\$1 - \$49,999	0	2	0	4	4	4	4	4	7	8	10	11
\$50,000-\$99,999	3	3	2	3	5	3	1	1	1	7	9	6
\$100,000-\$999,999	12	15	20	5	5	6	1	2	2	18	22	28
\$1,000,000 +	0	0	0	0	0	0	0	0	1	0	0	1
<b>Total:</b>	15	20	22	12	14	13	6	7	11	33	41	46
(Group N)	(31)	(30)	(29)	(36)	(36)	(36)	(21)	(20)	(18)	(88)	(86)	(83)
Percent of Total:	48%	67%	76%	33%	39%	36%	29%	35%	61%	38%	48%	55%

\*Includes only those grants where faculty served as principal investigator. Does not include NSF EPSCoR, D EPSCoR, or HPA EPSCoR.

Source: Institutional databases.

Table 20 presents the award amounts for Groups I and II faculty combined. It shows that awards for EPSCoR funded faculty has increased significantly from approximately \$9.6 million in FY1994 to \$17.6 million in FY1997.<sup>15</sup> The number of awards to EPSCoR faculty increased from 93 awards to 158 awards. Funding for EPSCoR faculty has increased by 83 percent from 1994 to 1997.

**Table 20**  
**TOTAL GRANT ACTIVITY OF EPSCoR FUNDED FACULTY**  
**GROUPS I AND II COMBINED**

---

	FY 1994	FY 1995	FY 1996	FY1997
Proposals Submitted**	250	291	290	379
Grants Awarded	93	90	130	158
Percent Awarded	37%	31%	45%	42%
Dollars Awarded	\$9.614	\$10.731m	\$13.272m	\$17.610m
Adjusted for Inflation (to 1997 dollars)***	(\$10.411)	(\$11.301m)	(\$13.576m)	(\$17.610m)
% Change Dollars Awarded:				
1994 to 1997	83%			
(Adjusted for Inflation)	(69%)			
1996 to 1997	33%			
(Adjusted for Inflation)	(30%)			
<i>*Includes only those grants where faculty served as principal investigator. Does not include NSF EPSCoR, D EPSCoR, or EPA EPSCoR.</i>				
<i>**Adjusted for Inflation Equation: final year dollars = initial year dollars * (final year cpi)/(initial year cpi), where cpi94=148.2, cpi95=152.4, cpi96=156.9, and cpi97=160.5.</i>				

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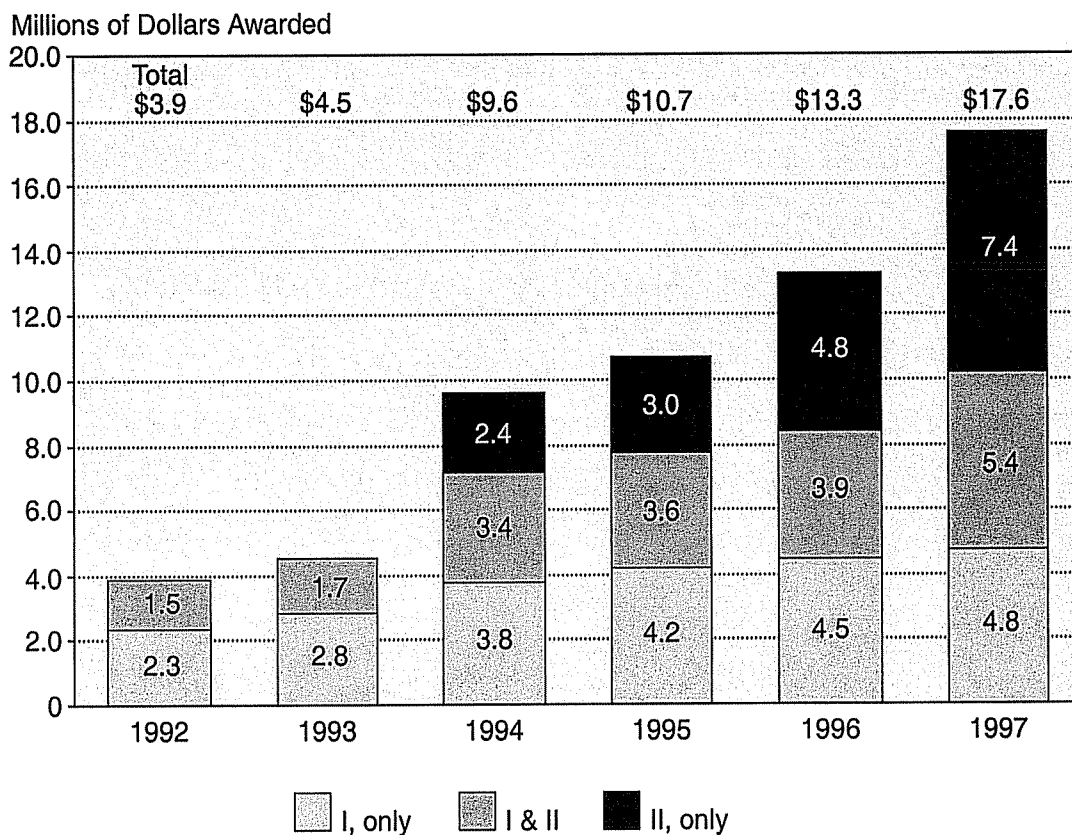
Source: Institutional databases and Bureau of Labor Statistics, Consumer Price Index-All Urban Consumers, Series ID CUUR0000SA0, Base Period: 1982-84=100.

<sup>15</sup> Because tracking of Group II faculty did not begin until FY1994 this table does not include FY1992 and FY1993 data of Group I faculty. This table avoids the double counting of faculty members that were a part of both groups.



Figure 18 illustrates funding awards for EPSCoR funded faculty starting in FY1992 with the first NSF EPSCoR grant award. It breaks down EPSCoR funded faculty into three categories: Group I only, Group I and II, and Group II only. The amount of awards has steadily increased over time for all three categories indicating that EPSCoR funding has had a positive impact on faculty funding. "Group II only" faculty experienced the greatest increases in dollar awards in FY1997.

Figure 18  
**EPSCoR Funded Faculty**  
**FY1992 – FY 1997**



Source: Institutional databases.

## IMPACT OF FUNDING UPON INFRASTRUCTURE

Have changes in grant funding affected the growth of the science, engineering, and math infrastructure? Table 21 lists the total dollars awarded along with the number of post doctoral personnel, the number of faculty, and graduate enrollment from 1991 to 1997 in an effort to see if a pattern exists between funding and infrastructure. It appears that increases in grant funding translated into increases in post doctoral personnel even when grant funding declined for a year. While total dollars awarded increased by 107 percent from 1991 to 1997, post doctoral numbers increased by 87 percent. During the same time period, faculty declined by four percent and graduate enrollment increased by four percent.

**Table 21**  
**SEM INFRASTRUCTURE AND FUNDING GROWTH**

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Year	Total Dollars Awarded	Post Docs	Faculty	Graduate Enrollment
1991	\$46,164,830	45	1,231	3,918
1992	\$58,824,989	58	1,226	4,069
1993*	\$65,949,700	65	1,226	4,195
1994	\$53,538,499	52	1,237	4,400
1995*	\$53,187,571	65	1,225	4,125
1996*	\$78,291,580	73	1,189	4,201
1997*	\$95,601,563	84	1,182	4,064
% Change				
96 to 97	22%	15%	-0.6%	-3%
91 to 97	107%	87%	-4%	4%

*\*NSF EPSCoR not included. NSF EPSCoR 1997=\$3,101,400. NSF EPSCoR 1996=\$3,000,000.  
NSF EPSCoR 1993=\$4,400,000. NSF EPSCoR 1995=\$3,056,400.*

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Source: Institutional databases.

## CONCLUSIONS

Kansas participated in the NSF EPSCoR program for three years, from 1992 through 1995. In 1995, funding was renewed for another three years and a second group of SEM faculty began receiving funds. The state has made progress since funding began in 1992, but renewed funding requires renewed efforts to improve the state's competitive position even further. Current assessment revealed several important findings.

- The number of SEM faculty fell slightly (one percent) in academic year 1997 compared to 1996.
- The number of women and minority SEM faculty continued to be above 1991 levels but still represent a small proportion of total faculty. Women were 16 percent of the faculty in 1997 (well below the 50.8 percent level seen in the general population), while minorities, at 14 percent, were very close to the proportion found in the general population (13.3 percent).<sup>16</sup>
- The number of assistant professors was lower in 1997 than in 1996 as was the number of graduate teaching assistants and student research assistants.
- The number of post doctoral positions increased fifteen percent from 1996 to 1997. Since 1991, post doctoral personnel has increased by 87 percent.
- Faculty salaries continue to be lower than those paid at peer institutions.
- SEM graduate enrollment for 1997 was three percent lower than 1997 levels and four percent above 1991 levels. The number of engineering graduate students fell four percent below 1996 levels but 17 percent above 1991 levels.
- The number of women enrolled in SEM graduate programs decreased three percent from 1996 to 1997; minority graduate enrollment also decreased by three percent for the same time period.
- In 1997, 38 percent of SEM graduate students were women and five percent were minorities. Compared to the general population, the number of women and minority graduate students was low.
- The number of graduate students receiving financial support in the form of teaching assistantships or research assistantships was lower than the previous year.

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<sup>16</sup> Population Statistics from the *Kansas Statistical Abstract 1997*, Institute for Public Policy and Business Research, The University of Kansas, June 1998.

- NSF dollars (excluding NSF EPSCoR) awarded to the state from 1991 to 1997 has increased every year except for 1993 and 1996.
- The dollars awarded by all funding sources to the state from 1991 to 1997 increased every year except for 1994 and 1995.
- Award amounts to NSF EPSCoR funded faculty has increased significantly from FY1994 to FY1997 indicating a positive impact of the NSF EPSCoR program.

The 1997 data revealed declines in number of assistant professors, student research assistants, and graduate enrollment. This may have a negative impact on research and grant productivity. While disturbing, these decreases must be put into context. With a better fiscal environment and the lifting of hiring freezes, the number of faculty will increase and the number of students accepted into graduate programs should also increase. With an increase in faculty hired, the number of grants submitted and funded should also improve, which will also increase the number of student research assistants that can be supported.

However, if the university continues to fill vacant faculty positions with adjunct faculty or to leave them vacant, then the research capabilities of the university may indeed be in a precarious position. If the hiring freeze of 1994 was responsible for the declines seen in the 1995 and 1996 infrastructures, then past improvements in Kansas' competitive position may be very fragile. The state must focus upon protecting gains made by the NSF EPSCoR program and encouraging growth in key areas such as number of faculty, graduate enrollment, and graduate student support that will drive future growth.

**APPENDIX A**

**Departments/Units Included in Database**

## DEPARTMENTS/UNITS INCLUDED IN THE DATABASE

### KSU

#### Science

Animal Science & Industry  
Agronomy  
Biochemistry  
Entomology  
Grain Science  
Horticulture, Forestry &  
Recreational Resources  
Plant Pathology  
Biology  
Chemistry  
Geology  
Physics  
Political Science  
Psychology  
Sociology, Anthropology &  
Social Work  
Statistics  
Economics  
Geography  
Foods & Nutrition  
Anatomy & Physiology  
Clinical Sciences  
Pathology/Microbiology (Lab Medicine  
Diagnostic Medicine/Pathobiology

#### Math

#### Engineering

Agricultural (Biological & Agricultural)  
Architectural  
Chemical  
Civil  
Computer and Information Science  
Electrical & Computer  
Industrial & Manufacturing Systems  
Mechanical  
Nuclear

## KU (Lawrence Campus)

### Science

Academic Computing  
Animal Care  
Anthropology  
Anthropology Museum  
Biological Sciences  
    Biochemistry  
    Biology  
    Botany  
    Entomology  
    Environmental Studies  
        *(now Interdispl. Environ. Studies)*  
    Microbiology  
    Physiology & Cell Biology  
    Systematics & Ecology  
Biochem Research Service Lab  
Biomedical Research  
Biological Survey  
Bureau of Child Research/  
    Life Span Institute  
Cartographic Lab  
Chemistry  
Child Development Lab  
Computer Science  
    *(to Engineering, 1994)*  
Center for Bioanalytical Research  
Center for Biomedical Research  
Center for Drug Delivery  
Center for Neurobiol & Immunology  
~~Early Childhood Institute~~  
Economics  
~~Entomology Museum~~  
Experimental & Applied Ecology  
Geography  
Geology  
Gerontology Center  
Herbarium  
Higuchi Bioscience Centers  
Human Development & Family Life  
Institute for Pub Policy &  
    Business Research

Interdisciplinary Environ. Studies  
~~Kansas Biological Survey~~  
Kansas Geological Survey  
Mass Spectrometer Lab  
Medicinal Chemistry  
~~Microbiology (to Biological Sciences)~~  
Museum Natural History  
~~Museum Inv. Paleontol.~~  
Natural Heritage Inventory  
NMR Lab  
Paleontological Institute  
Pharmaceutical Chemistry  
Pharmacology & Toxicology  
Pharmacy Practice  
Physics & Astronomy  
Psychology  
Science Instrument Lab  
Sociology

### Math

### Engineering

Aerospace  
Applied Remote Sensing Program  
Architectural  
CRINC  
Chemical & Petroleum  
Civil  
Center for Energy Res/Dev  
Center for Computer Aided  
    Systems (CECASE)  
Electrical Engineering &  
    Computer Science  
Engineering Management Program  
Information & Telecommunication  
    Tech Center  
Mechanical  
~~Space Technology Center~~  
Tertiary Oil Recovery  
Transportation Res. Center  
Water Resources Institute

## WSU

### Science

Curriculum & Instruction (deleted in 1994)

Industrial Technology

Communicative Disorders

Biological Sciences

Chemistry

Geology

Computer Science

Physics

Psychology

Anthropology

Clinical Sciences

Health Adm. & Gerontol.

Nursing

Dental Hygiene

Respiratory Therapy

Medical Technology

Gerontology Ctr.

Physical Therapy

Physician Assistant

Physical Therapist Assistant Program (added in 1998)

Public Health Sciences (added in 1998)

Masters of Public Health (added in 1998)

### Math

### Engineering

Aerospace

Electrical and Computer (formerly Electrical)

Industrial and Manufacturing (formerly Industrial)

Mechanical

NIAR – Shop (formerly Special Projects)

NIAR - Wind Tunnel (formerly Wind Tunnel)

NIAR



**APPENDIX B**

**SEM Faculty and Personnel**

**NUMBER OF SEM FACULTY**

	1991	1992	1993	1994	1995	1996	1997	1996-97 % Change	1991-97 % Change
<b>KSU</b>									
Science	479	471	472	482	479	463	452	-2%	-6%
Engineering	115	111	106	128	130	129	126	-2%	10%
Math	29	31	33	32	32	32	32	0%	10%
<b>Subtotal</b>	<b>623</b>	<b>613</b>	<b>611</b>	<b>642</b>	<b>641</b>	<b>624</b>	<b>610</b>	<b>-2%</b>	<b>-2%</b>
<b>KU-Lawrence</b>									
Science	286	295	300	296	283	273	273	0%	-5%
Engineering	76	76	75	86	87	87	88	1%	16%
Math	37	38	40	38	36	37	37	0%	0%
<b>Subtotal</b>	<b>399</b>	<b>409</b>	<b>415</b>	<b>420</b>	<b>406</b>	<b>397</b>	<b>398</b>	<b>0%</b>	<b>0%</b>
<b>WSU*</b>									
Science	138	132	130	105	107	100	106	6%	1%
Engineering	44	46	45	45	46	45	45	0%	0%
Math	27	26	25	25	25	23	23	0%	-8%
<b>Subtotal</b>	<b>209</b>	<b>204</b>	<b>200</b>	<b>175</b>	<b>178</b>	<b>168</b>	<b>174</b>	<b>4%</b>	<b>-1%</b>
<b>STATE</b>									
Science	903	898	902	883	869	836	831	-1%	-8%
Engineering	235	233	226	259	263	261	259	-1%	10%
Math	93	95	98	95	93	92	92	0%	-1%
<b>TOTAL</b>	<b>1,231</b>	<b>1,226</b>	<b>1,226</b>	<b>1,237</b>	<b>1,225</b>	<b>1,189</b>	<b>1,182</b>	<b>-1%</b>	<b>-4%</b>

\* Percent change for WSU 1994 - 1997; Curriculum & Instruction data deleted from Science starting 1994.

**NUMBER OF WOMEN FACULTY**

	1991	1992	1993	1994	1995	1996	1997	1996-97 % Change	1991-97 % Change
<b>KSU</b>									
Science	54	54	60	64	64	72	72	0%	33%
Engineering	4	4	5	6	8	9	12	n.a.	n.a.
Math	0	0	0	0	0	1	0	n.a.	n.a.
<b>Subtotal</b>	<b>58</b>	<b>58</b>	<b>65</b>	<b>70</b>	<b>72</b>	<b>82</b>	<b>84</b>	<b>2%</b>	<b>45%</b>
<b>% of Total</b>	<b>9%</b>	<b>9%</b>	<b>11%</b>	<b>11%</b>	<b>11%</b>	<b>13%</b>	<b>14%</b>		
<b>KU-Lawrence</b>									
Science	45	53	57	60	58	56	55	-2%	22%
Engineering	2	2	4	5	6	5	5	n.a.	n.a.
Math	3	3	3	3	3	4	4	n.a.	n.a.
<b>Subtotal</b>	<b>50</b>	<b>58</b>	<b>64</b>	<b>68</b>	<b>67</b>	<b>65</b>	<b>64</b>	<b>-2%</b>	<b>28%</b>
<b>% of Total</b>	<b>13%</b>	<b>14%</b>	<b>15%</b>	<b>16%</b>	<b>17%</b>	<b>16%</b>	<b>16%</b>		
<b>WSU*</b>									
Science	52	49	46	37	33	30	32	7%	-14%
Engineering	2	2	2	2	3	4	4	n.a.	n.a.
Math	1	0	0	0	0	0	0	n.a.	n.a.
<b>Subtotal</b>	<b>55</b>	<b>51</b>	<b>48</b>	<b>39</b>	<b>36</b>	<b>34</b>	<b>36</b>	<b>6%</b>	<b>-8%</b>
<b>% of Total</b>	<b>26%</b>	<b>25%</b>	<b>24%</b>	<b>22%</b>	<b>20%</b>	<b>20%</b>	<b>21%</b>		
<b>STATE</b>									
Science	151	156	163	161	155	158	159	1%	5%
Engineering	8	8	11	13	17	18	21	n.a.	n.a.
Math	4	3	3	3	3	5	4	n.a.	n.a.
<b>TOTAL</b>	<b>163</b>	<b>167</b>	<b>177</b>	<b>177</b>	<b>175</b>	<b>181</b>	<b>184</b>	<b>2%</b>	<b>13%</b>
<b>% of TOTAL</b>	<b>13%</b>	<b>14%</b>	<b>14%</b>	<b>14%</b>	<b>14%</b>	<b>15%</b>	<b>16%</b>		

\* Percent change for WSU 1994 - 1997; Curriculum & Instruction data deleted from Science starting 1994.

n.a.=not applicable. Percent change not calculated. Numbers are too small to generate a meaningful percent change.

**NUMBER OF MINORITY FACULTY**

	1991	1992	1993	1994	1995	1996	1997	1996-97 % Change	1991-97 % Change
<b>KSU</b>									
Science	36	40	40	39	42	44	48	9%	33%
Engineering	16	16	14	22	26	27	25	-7%	n.a.
Math	6	8	9	9	8	7	7	n.a.	n.a.
<b>Minority total</b>	<b>58</b>	<b>64</b>	<b>63</b>	<b>70</b>	<b>76</b>	<b>78</b>	<b>80</b>	<b>3%</b>	<b>38%</b>
<b>% of Total</b>	<b>9%</b>	<b>10%</b>	<b>10%</b>	<b>11%</b>	<b>12%</b>	<b>13%</b>	<b>13%</b>		
<b>KU-Lawrence</b>									
Science	24	25	24	27	24	27	30	11%	25%
Engineering	10	12	12	14	13	13	14	n.a.	n.a.
Math	5	6	9	9	9	9	8	n.a.	n.a.
<b>Subtotal</b>	<b>39</b>	<b>43</b>	<b>45</b>	<b>50</b>	<b>46</b>	<b>49</b>	<b>52</b>	<b>6%</b>	<b>33%</b>
<b>% of Total</b>	<b>10%</b>	<b>11%</b>	<b>11%</b>	<b>12%</b>	<b>11%</b>	<b>12%</b>	<b>13%</b>		
<b>WSU*</b>									
Science	15	16	17	13	15	13	14	n.a.	n.a.
Engineering	10	12	12	14	15	16	15	n.a.	n.a.
Math	7	7	6	8	9	9	9	n.a.	n.a.
<b>Subtotal</b>	<b>32</b>	<b>35</b>	<b>35</b>	<b>35</b>	<b>39</b>	<b>38</b>	<b>38</b>	<b>0%</b>	<b>9%</b>
<b>% of Total</b>	<b>15%</b>	<b>17%</b>	<b>18%</b>	<b>20%</b>	<b>22%</b>	<b>23%</b>	<b>22%</b>		
<b>STATE</b>									
Science	75	81	81	79	81	84	92	10%	23%
Engineering	36	40	38	50	54	56	54	-4%	50%
Math	18	21	24	26	26	25	24	-4%	33%
<b>TOTAL</b>	<b>129</b>	<b>142</b>	<b>143</b>	<b>155</b>	<b>161</b>	<b>165</b>	<b>170</b>	<b>3%</b>	<b>32%</b>
<b>% of TOTAL</b>	<b>10%</b>	<b>12%</b>	<b>12%</b>	<b>13%</b>	<b>13%</b>	<b>14%</b>	<b>14%</b>		

\* Percent change for WSU 1994 - 1997; Curriculum & Instruction data deleted from Science starting 1994.

n.a.=not applicable. Percent change not calculated. Numbers are too small to generate a meaningful percent change.

**FACULTY DEMOGRAPHICS FOR KSU, KU, WSU:  
ASSISTANT, ASSOCIATE, FULL PROFESSORS (Tenure Track)**

*Academic Year Beginning Fall of*  
**1995**

SCIENCE	1995				1996				1997			
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total
Male	415	225	74	714	391	217	70	678	380	218	74	672
Female	64	58	33	155	72	56	30	158	72	55	32	159
<b>Total</b>	<b>479</b>	<b>283</b>	<b>107</b>	<b>869</b>	<b>463</b>	<b>273</b>	<b>100</b>	<b>836</b>	<b>452</b>	<b>273</b>	<b>106</b>	<b>831</b>
% Female	13%	20%	31%	18%	16%	21%	30%	19%	16%	20%	30%	19%
White	437	257	92	786	419	244	87	750	404	243	92	739
African Amer.	2	2	1	5	2	6	1	9	2	6	1	7
Hispanic	3	-	-	3	4	-	-	4	7	1	1	9
Asian/Pac.Isl.	35	21	14	70	36	20	12	68	36	22	12	70
Am.Ind./Alaskan	2	1	-	3	2	1	-	3	3	1	-	4
<b>Total *</b>	<b>479</b>	<b>281</b>	<b>107</b>	<b>867</b>	<b>463</b>	<b>271</b>	<b>100</b>	<b>834</b>	<b>452</b>	<b>273</b>	<b>106</b>	<b>829</b>
% Minority	9%	9%	14%	9%	10%	10%	13%	10%	11%	11%	13%	11%

MATH	1995				1996				1997			
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total
Male	32	33	25	90	31	33	23	87	32	33	23	88
Female	-	3	-	3	1	4	-	5	-	4	-	4
<b>Total</b>	<b>32</b>	<b>36</b>	<b>25</b>	<b>93</b>	<b>32</b>	<b>37</b>	<b>23</b>	<b>92</b>	<b>32</b>	<b>37</b>	<b>23</b>	<b>92</b>
% Female	0%	8%	0%	3%	3%	11%	0%	5%	0%	11%	0%	4%
White	24	27	16	67	25	27	14	66	25	29	14	68
African Amer.	-	-	-	-	-	-	-	-	-	-	-	-
Hispanic	1	1	-	2	1	3	-	4	1	3	-	4
Asian/Pac.Isl.	7	8	9	24	6	6	9	21	6	5	9	20
Am.Ind./Alaskan	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total *</b>	<b>32</b>	<b>36</b>	<b>25</b>	<b>93</b>	<b>32</b>	<b>36</b>	<b>23</b>	<b>91</b>	<b>32</b>	<b>37</b>	<b>23</b>	<b>92</b>
% Minority	25%	25%	36%	28%	22%	25%	39%	27%	22%	22%	39%	26%

**FACULTY DEMOGRAPHICS FOR KSU, KU, WSU:  
ASSISTANT, ASSOCIATE, FULL PROFESSORS (continued)**

	1995				1996				1997			
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total
<b>ENGINEERING</b>	122	81	43	246	120	82	41	243	114	83	41	238
Male	8	6	3	17	9	5	4	18	12	5	4	21
Female	130	87	46	263	129	87	45	261	126	88	45	259
<b>% Female</b>	6%	7%	7%	6%	7%	6%	9%	7%	10%	6%	9%	8%
White	104	74	31	209	102	72	29	203	98	74	30	202
African Amer.	-	1	2	3	-	1	2	3	-	1	2	3
Hispanic	-	1	1	2	-	1	1	2	-	1	1	2
Asian/Pac.Isl.	25	11	12	48	26	11	13	50	24	12	12	48
Am.Ind./Alaskan	1	-	-	1	1	-	-	1	1	-	-	1
<b>Total *</b>	130	87	46	263	129	85	45	259	123	88	45	256
<b>% Minority</b>	20%	15%	33%	21%	21%	15%	36%	22%	20%	16%	33%	21%
<b>SCIENCE, MATH &amp; ENGINEERING</b>	569	339	142	1,050	542	332	134	1,008	526	334	138	998
Male	72	67	36	175	82	65	34	181	84	64	36	184
Female	641	406	178	1,225	624	397	168	1,189	610	398	174	1,182
<b>Total</b>	11%	17%	20%	14%	13%	16%	20%	15%	14%	16%	21%	16%
<b>% Female</b>	565	358	139	1,062	546	343	130	1,019	527	346	136	1,009
White	2	3	3	8	2	7	3	12	6	2	3	11
African Amer.	4	2	1	7	5	4	1	10	8	5	2	15
Hispanic	67	40	35	142	68	37	34	139	66	39	33	138
Asian/Pac.Isl.	3	1	-	4	3	1	-	4	4	1	-	5
Am.Ind./Alaskan	641	404	178	1,223	624	392	168	1,184	611	393	174	1,178
<b>Total *</b>	12%	11%	22%	13%	13%	13%	23%	14%	14%	12%	22%	14%
<b>% Minority</b>												

\* Total number of faculty by ethnicity does not always equal total number of faculty by sex because ethnicity data are not available in all cases.

FACULTY DEMOGRAPHICS FOR KSU, KU, WSU: ASSISTANT, ASSOCIATE, FULL PROFESSORS (continued)

Academic Year Beginning Fall of

SCIENCE*	1991				1992				1993				1994			
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total
Male	425	241	86	752	417	242	83	742	412	243	84	739	418	236	68	722
Female	54	45	52	151	54	53	49	156	60	57	46	163	64	60	37	161
<b>Total</b>	<b>479</b>	<b>286</b>	<b>138</b>	<b>903</b>	<b>471</b>	<b>295</b>	<b>132</b>	<b>898</b>	<b>472</b>	<b>300</b>	<b>130</b>	<b>902</b>	<b>482</b>	<b>296</b>	<b>105</b>	<b>883</b>
% Female	11%	16%	38%	17%	11%	18%	37%	17%	13%	19%	35%	18%	13%	20%	35%	18%
White	427	262	123	812	432	270	116	818	432	276	113	821	443	269	92	804
African Amer.	-	2	1	3	-	2	1	3	-	2	1	3	-	3	-	3
Hispanic	2	-	1	3	4	-	-	4	3	-	-	3	3	-	-	3
Asian/Pac.Isl.	33	22	13	68	36	22	15	73	36	21	16	73	35	23	13	71
Am.Ind./Alaskan	1	-	-	1	-	1	-	1	1	1	-	2	1	1	-	2
<b>Total **</b>	<b>463</b>	<b>286</b>	<b>138</b>	<b>887</b>	<b>472</b>	<b>295</b>	<b>132</b>	<b>899</b>	<b>472</b>	<b>300</b>	<b>130</b>	<b>902</b>	<b>482</b>	<b>296</b>	<b>105</b>	<b>883</b>
% Minority	8%	8%	11%	8%	8%	8%	12%	9%	8%	8%	13%	9%	8%	9%	12%	9%
<b>MATH</b>																
Male	29	34	26	89	31	35	26	92	33	37	25	95	32	35	25	92
Female	-	3	1	4	-	3	-	3	-	3	-	3	-	3	-	3
<b>Total</b>	<b>29</b>	<b>37</b>	<b>27</b>	<b>93</b>	<b>31</b>	<b>38</b>	<b>26</b>	<b>95</b>	<b>33</b>	<b>40</b>	<b>25</b>	<b>98</b>	<b>32</b>	<b>38</b>	<b>25</b>	<b>95</b>
% Female	0%	8%	4%	4%	0%	8%	0%	3%	0%	8%	0%	3%	0%	8%	0%	3%
White	23	32	20	75	23	32	19	74	24	31	19	74	23	29	17	69
African Amer.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hispanic	1	2	1	4	1	2	1	4	1	2	1	4	1	1	1	3
Asian/Pac.Isl.	5	3	6	14	7	4	6	17	8	7	5	20	8	8	7	23
Am.Ind./Alaskan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total **</b>	<b>29</b>	<b>37</b>	<b>27</b>	<b>93</b>	<b>31</b>	<b>38</b>	<b>26</b>	<b>95</b>	<b>33</b>	<b>40</b>	<b>25</b>	<b>98</b>	<b>32</b>	<b>38</b>	<b>25</b>	<b>95</b>
% Minority	21%	14%	26%	19%	26%	16%	27%	22%	27%	23%	24%	24%	28%	24%	32%	27%

FACULTY DEMOGRAPHICS FOR KSU, KU, WSU: ASSISTANT, ASSOCIATE, FULL PROFESSORS (continued)

Academic Year Beginning Fall of

	1991				1992				1993				1994			
	KSU	WSU	Total	%	KSU	WSU	Total	%	KSU	WSU	Total	%	KSU	WSU	Total	%
<b>ENGINEERING</b>	111	74	227	3%	107	74	225	101	71	43	215	122	81	43	246	
Male	4	2	8		4	2	8	5	4	2	11	6	5	2	13	
Female	115	76	235	3%	111	76	233	106	75	45	226	128	86	45	259	
Total	3%	5%	3%		4%	3%	3%	5%	5%	4%	5%	5%	6%	4%	5%	
% Female																
White	99	66	199		94	64	192	92	63	33	188	106	72	31	209	
African Amer.	-	1	2		-	1	2	-	1	1	2	-	1	1	2	
Hispanic	1	-	2		1	1	3	1	1	1	3	1	1	1	3	
Asian/Pac.Isl.	15	9	32		15	10	35	13	10	10	33	20	12	12	44	
Am.Ind./Alaskan	-	-	-		-	-	-	-	-	-	-	1	-	-	1	
Total **	115	76	235	14%	110	76	232	106	75	45	226	128	86	45	259	
% Minority	14%	13%	15%		15%	16%	17%	13%	16%	27%	17%	17%	16%	31%	19%	
<b>SCIENCE, MATH &amp; ENGINEERING*</b>	565	349	1,068	9%	555	351	1,059	546	351	152	1,049	572	352	136	1,060	
Male	58	50	163		58	58	167	65	64	48	177	70	68	39	177	
Female	623	399	1,231	9%	613	409	1,226	611	415	200	1,226	642	420	175	1,237	
Total	9%	13%	13%		9%	14%	14%	11%	15%	24%	14%	11%	16%	22%	14%	
% Female																
White	549	360	1,086		549	366	1,084	548	370	165	1,083	572	370	140	1,082	
African Amer.	-	3	5		-	3	5	-	3	2	5	-	4	1	5	
Hispanic	4	2	9		6	3	11	5	3	2	10	5	2	2	9	
Asian/Pac.Isl.	53	34	114		58	36	125	57	38	31	126	63	43	32	138	
Am.Ind./Alaskan	1	-	1		-	1	1	1	1	-	2	2	1	-	3	
Total **	607	399	1,215	10%	613	409	1,226	611	415	200	1,226	642	420	175	1,237	
% Minority	10%	10%	11%		10%	11%	12%	10%	11%	18%	12%	11%	12%	20%	13%	

\* Starting 1994, WSU Science data no longer include Curriculum and Instruction.

\*\* Total number of faculty by ethnicity does not always equal total number of faculty by sex because ethnicity data are not available in all cases.



**PERSONNEL TOTALS BY YEAR**

	1991	1992	1993	1994	1995	1996	1997	1996-97 % Change	1991-97 % Change
Science*	2,813	3,103	3,101	3,073	3,012	3,003	2,936	-2%	4%
Math	224	235	231	239	237	229	230	0%	3%
Engineering	619	588	670	758	765	710	721	2%	16%
<b>SEM TOTAL</b>	<b>3,656</b>	<b>3,926</b>	<b>4,002</b>	<b>4,070</b>	<b>4,014</b>	<b>3,942</b>	<b>3,887</b>	<b>-1%</b>	<b>6%</b>
Professor	557	558	555	559	553	542	540	0%	-3%
Assoc. Professor	334	322	326	327	351	354	360	2%	8%
Assist. Professor	340	346	345	351	321	293	279	-5%	-18%
Academic Staff, Directors, & Technical Staff	376	616	514	495	491	474	539	14%	43%
<i>Subtotal</i>	<i>1,607</i>	<i>1,842</i>	<i>1,740</i>	<i>1,732</i>	<i>1,716</i>	<i>1,663</i>	<i>1,718</i>	<i>3%</i>	<i>7%</i>
Research Assoc. & Assist.	341	352	344	310	293	328	350	7%	3%
Post Doctoral	45	58	65	52	65	73	84	15%	87%
Grad. Teaching Assist.	846	789	868	911	970	900	877	-3%	4%
Student Research Assistants	817	885	985	1,065	970	978	858	-12%	5%
<i>Subtotal</i>	<i>2,049</i>	<i>2,084</i>	<i>2,262</i>	<i>2,338</i>	<i>2,298</i>	<i>2,279</i>	<i>2,169</i>	<i>-5%</i>	<i>6%</i>
<b>TOTAL</b>	<b>3,656</b>	<b>3,926</b>	<b>4,002</b>	<b>4,070</b>	<b>4,014</b>	<b>3,942</b>	<b>3,887</b>	<b>-1%</b>	<b>6%</b>

\*Starting in 1994, WSU Science data no longer include Curriculum and Instruction.

**SME PERSONNEL BY TITLE FOR KSU, KU, AND WSU**

*Academic Year Beginning Fall of*

SCIENCE	1995			1996			1997			Total		
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU		KU	WSU
Professor	226	149	25	400	213	147	28	388	214	145	32	391
Associate Prof.	131	66	43	240	144	58	40	242	135	67	39	241
Assistant Prof.	122	68	39	229	106	68	32	206	103	61	35	199
Academic Staff *	102	124	51	277	119	139	44	302	160	143	44	347
Res Assoc/Asst.	162	116	-	278	181	136	-	317	196	141	-	337
Post Docs	-	64	-	64	-	73	-	73	-	84	-	84
Teaching Assist.	216	329	114	659	202	299	116	617	217	268	102	587
Student Res.Asst.	386	333	7	726	423	308	25	756	361	257	18	636
Technical Staff **	24	115	-	139	28	74	-	102	26	88	-	114
<b>TOTAL</b>	<b>1,369</b>	<b>1,364</b>	<b>279</b>	<b>3,012</b>	<b>1,416</b>	<b>1,302</b>	<b>285</b>	<b>3,003</b>	<b>1,412</b>	<b>1,254</b>	<b>270</b>	<b>2,936</b>

MATH	1995			1996			1997			Total		
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU		KU	WSU
Professor	13	18	6	37	13	19	6	38	14	19	7	40
Associate Prof.	12	13	12	37	14	11	14	39	15	11	13	39
Assistant Prof.	7	5	7	19	5	7	3	15	3	7	3	13
Academic Staff	1	2	15	18	0	4	13	17	0	2	13	15
Res. Assoc/Asst.	0	0	0	0	0	0	0	0	0	0	0	0
Post Docs	-	0	0	0	-	0	0	0	-	0	0	0
Teaching Assist.	50	53	21	124	44	54	19	117	45	55	18	118
Student Res.Asst.	0	1	0	1	1	1	0	2	3	1	0	4
Technical Staff	0	1	0	1	0	1	0	1	0	1	0	1
<b>TOTAL</b>	<b>83</b>	<b>93</b>	<b>61</b>	<b>237</b>	<b>77</b>	<b>97</b>	<b>55</b>	<b>229</b>	<b>80</b>	<b>96</b>	<b>54</b>	<b>230</b>

**SME PERSONNEL BY TITLE FOR KSU, KU, AND WSU (continued)**

	1995				1996				1997			
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total
Professor	61	42	13	116	61	43	12	116	55	42	12	109
Associate Prof.	32	26	16	74	31	27	15	73	37	26	17	80
Assistant Prof.	37	19	17	73	37	17	18	72	31	20	16	67
Academic Staff	15	14	7	36	13	14	16	43	24	14	15	53
Res. Assoc/Asst.	13	2	0	15	8	3	0	11	7	6	0	13
Post Docs	-	1	0	1	-	0	0	0	-	0	0	0
Teaching Assist.	51	45	91	187	47	63	56	166	50	63	59	172
Student Res.Asst.	179	34	30	243	164	19	37	220	137	20	61	218
Technical Staff	6	14	0	20	2	7	0	9	1	8	0	9
<b>TOTAL</b>	<b>394</b>	<b>197</b>	<b>174</b>	<b>765</b>	<b>363</b>	<b>193</b>	<b>154</b>	<b>710</b>	<b>342</b>	<b>199</b>	<b>180</b>	<b>721</b>

	1995				1996				1997			
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total
Professor	300	209	44	553	287	209	46	542	283	206	51	540
Associate Prof.	175	105	71	351	189	96	69	354	187	104	69	360
Assistant Prof.	166	92	63	321	148	92	53	293	137	88	54	279
Academic Staff	118	140	73	331	132	157	73	362	184	159	72	415
Res. Assoc/Asst.	175	118	0	293	189	139	0	328	203	147	0	350
Post Docs	0	65	0	65	0	73	0	73	0	84	0	84
Teaching Assist.	317	427	226	970	293	416	191	900	312	386	179	877
Student Res.Asst.	565	368	37	970	588	328	62	978	501	278	79	858
Technical Staff	30	130	0	160	30	82	0	112	27	97	0	124
<b>TOTAL</b>	<b>1,846</b>	<b>1,654</b>	<b>514</b>	<b>4,014</b>	<b>1,856</b>	<b>1,592</b>	<b>494</b>	<b>3,942</b>	<b>1,834</b>	<b>1,549</b>	<b>504</b>	<b>3,887</b>

\* Adjunct faculty, research professors (full/assoc/asst), asst/assoc/sr scientists, lecturers, instructors and directors are included under Academic Staff.

\*\* WSU's Directors and Post Doctoral Fellows are included under Technical Staff.

\*\*\* WSU's Engineering data include the National Institute for Aviation Research.

**SME PERSONNEL BY TITLE FOR KSU, KU, AND WSU (continued)**

*Academic Year Beginning Fall of*

SCIENCE*	1991				1992				1993				1994			
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total
Professor	212	158	29	399	221	154	30	405	223	158	27	408	228	155	22	405
Associate Prof.	135	68	41	244	125	72	40	237	119	73	44	236	120	68	41	229
Assistant Prof.	132	60	68	260	125	69	62	256	130	69	59	258	134	73	42	249
Acad. Staff**	91	111	20	222	92	125	12	229	109	121	34	264	111	118	35	264
Res Assoc/Asst.	181	133	2	316	177	152	1	330	193	136	-	329	175	122	-	297
Post Docs	-	45	-	45	-	57	-	57	-	64	-	64	-	50	-	50
Teaching Assist.	186	334	76	596	173	348	76	597	169	350	88	607	181	353	89	623
Student Res.Asst.	274	365	1	640	296	427	8	731	363	411	11	785	413	398	8	819
Technical Staff***	17	56	18	91	21	217	23	261	22	128	-	150	22	115	-	137
<b>TOTAL</b>	<b>1,228</b>	<b>1,330</b>	<b>255</b>	<b>2,813</b>	<b>1,230</b>	<b>1,621</b>	<b>252</b>	<b>3,103</b>	<b>1,328</b>	<b>1,510</b>	<b>263</b>	<b>3,101</b>	<b>1,384</b>	<b>1,452</b>	<b>237</b>	<b>3,073</b>

MATH	1991				1992				1993				1994			
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total
Professor	14	17	5	36	13	17	6	36	12	18	5	35	14	18	6	38
Associate Prof.	6	14	14	34	6	14	12	32	8	14	13	35	9	12	11	32
Assistant Prof.	9	6	8	23	12	7	8	27	13	8	7	28	9	8	8	25
Academic Staff	1	1	12	14	-	2	12	14	1	2	13	16	2	3	11	16
Res. Assoc/Asst.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Post Docs	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
Teaching Assist.	43	50	24	117	37	49	18	104	49	49	17	115	47	52	25	124
Student Res.Asst.	-	-	-	-	-	-	-	-	-	1	-	1	-	2	-	2
Technical Staff	-	-	-	-	-	22	-	22	-	1	-	1	-	1	-	1
<b>TOTAL</b>	<b>73</b>	<b>88</b>	<b>63</b>	<b>224</b>	<b>68</b>	<b>111</b>	<b>56</b>	<b>235</b>	<b>83</b>	<b>93</b>	<b>55</b>	<b>231</b>	<b>81</b>	<b>97</b>	<b>61</b>	<b>239</b>

**SME PERSONNEL BY TITLE FOR KSU, KU, AND WSU (continued)**

Academic Year Beginning	1991					1992					1993					1994				
	ENGINEERING	****	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total		
Professor	59	45	18	122	57	43	17	117	56	39	17	112	59	43	14	116				
Associate Prof.	29	18	9	56	28	16	9	53	26	18	11	55	32	23	11	66				
Assistant Prof.	27	13	17	57	26	17	20	63	24	18	17	59	37	20	20	77				
Academic Staff	8	8	7	23	18	12	7	37	19	19	21	59	14	19	19	52				
Res. Assoc/Asst.	18	4	3	25	12	3	7	22	12	3	-	15	10	3	-	13				
Post Docs	-	-	-	-	-	1	-	1	-	1	-	1	-	-	-	-				
Teaching Assist.	21	43	69	133	9	44	35	88	42	48	56	146	45	44	75	164				
Student Res.Asst.	118	29	30	177	105	22	27	154	133	27	39	199	186	13	45	244				
Technical Staff	2	11	13	26	5	35	13	53	8	16	-	24	9	16	-	25				
<b>TOTAL</b>	<b>282</b>	<b>171</b>	<b>166</b>	<b>619</b>	<b>260</b>	<b>193</b>	<b>135</b>	<b>588</b>	<b>320</b>	<b>189</b>	<b>161</b>	<b>670</b>	<b>392</b>	<b>181</b>	<b>184</b>	<b>757</b>				
<b>SCIENCE, MATH</b>																				
<b>&amp; ENGINEERING*</b>																				
Professor	285	220	52	557	291	214	53	558	291	215	49	555	301	216	42	559				
Associate Prof.	170	100	64	334	159	102	61	322	153	105	68	326	161	103	63	327				
Assistant Prof.	168	79	93	340	163	93	90	346	167	95	83	345	180	101	70	351				
Academic Staff	100	120	39	259	110	139	31	280	129	142	68	339	127	140	65	332				
Res. Assoc/Asst.	199	137	5	341	189	155	8	352	205	139	-	344	185	125	-	310				
Post Docs	-	45	-	45	-	58	-	58	-	65	-	65	-	51	-	51				
Teaching Assist.	250	427	169	846	219	441	129	789	260	447	161	868	273	449	189	911				
Student Res.Asst.	392	394	31	817	401	449	35	885	496	439	50	985	599	413	53	1,065				
Technical Staff*****	19	67	31	117	26	274	36	336	30	145	-	175	31	132	-	163				
<b>TOTAL</b>	<b>1,583</b>	<b>1,589</b>	<b>484</b>	<b>3,656</b>	<b>1,558</b>	<b>1,925</b>	<b>443</b>	<b>3,926</b>	<b>1,731</b>	<b>1,792</b>	<b>479</b>	<b>4,002</b>	<b>1,857</b>	<b>1,730</b>	<b>482</b>	<b>4,069</b>				

\* Starting 1994, WSU Science data no longer include Curriculum and Instruction.

\*\* Adjunct faculty, research professors (full/assoc/asst), assi/assoc/sr scientists, lecturers, instructors and directors are included under Academic Staff.

\*\*\* WSU's Directors and Post Doctoral Fellows are included under Technical Staff.

\*\*\*\* WSU's Engineering data include the NIAR (National Institute for Aviation Research.

\*\*\*\*\*KU's Technical Staff revised starting in 1992.

**SME PERSONNEL\* DEMOGRAPHICS FOR KSU, KU, AND WSU**

*Academic Year Beginning Fall of*

SCIENCE	1995				1996				1997			
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total
Male	967	803	156	1,926	995	761	154	1,910	994	737	145	1,876
Female	402	561	123	1,086	421	541	131	1,093	418	517	125	1,060
% Female	29%	41%	44%	36%	30%	42%	46%	36%	30%	41%	46%	36%
White	1,053	1,076	222	2,351	1,070	1,006	225	2,301	557	991	214	1,762
African Amer.	19	36	3	58	20	32	4	56	7	42	4	53
Hispanic	22	31	2	55	32	22	3	57	18	24	2	44
Asian/Pac.Isl.	272	214	51	537	292	87	51	430	125	115	47	287
Am.Ind./Alaskan	3	7	1	11	2	4	2	8	2	4	2	8
% Minority	23%	21%	20%	22%	24%	13%	21%	19%	21%	16%	20%	18%

MATH	1995				1996				1997			
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total
Male	70	69	46	185	65	72	40	177	66	67	37	170
Female	13	24	15	52	12	25	15	52	14	29	17	60
% Female	16%	26%	25%	22%	16%	26%	27%	23%	18%	30%	31%	26%
White	58	73	39	170	61	74	37	172	49	78	39	166
African Amer.	1	-	3	4	1	-	2	3	1	-	2	3
Hispanic	1	2	4	7	1	4	4	9	1	4	2	7
Asian/Pac.Isl.	22	18	15	55	13	11	12	36	10	8	11	29
Am.Ind./Alaskan	1	-	-	1	1	-	-	1	1	-	-	1
% Minority	30%	22%	36%	28%	21%	17%	33%	22%	21%	13%	28%	19%

**SME PERSONNEL\* DEMOGRAPHICS FOR KSU, KU, AND WSU (continued)**

	1995			1996			1997					
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total
<i>Academic Year Beginning Fall of</i>												
<b>ENGINEERING</b>												
Male	347	175	159	681	328	165	142	635	299	175	163	637
Female	47	22	15	84	35	28	12	75	43	24	17	84
<b>% Female</b>	<b>12%</b>	<b>11%</b>	<b>9%</b>	<b>11%</b>	<b>10%</b>	<b>15%</b>	<b>8%</b>	<b>11%</b>	<b>13%</b>	<b>12%</b>	<b>9%</b>	<b>12%</b>
White	215	145	70	430	187	140	66	393	192	142	73	407
African Amer.	3	5	3	11	4	2	3	9	4	2	4	10
Hispanic	3	5	2	10	3	2	2	7	-	1	2	3
Asian/Pac.Isl.	172	42	94	308	168	27	81	276	79	37	97	213
Am.Ind./Alaskan	1	-	5	6	1	-	2	3	1	-	2	3
<b>% Minority</b>	<b>45%</b>	<b>26%</b>	<b>60%</b>	<b>44%</b>	<b>48%</b>	<b>18%</b>	<b>57%</b>	<b>43%</b>	<b>30%</b>	<b>22%</b>	<b>59%</b>	<b>36%</b>
<b>SCIENCE, MATH &amp; ENGINEERING</b>												
Male	1,384	1,047	361	2,792	1,388	998	336	2,722	1,359	979	345	2,683
Female	462	607	153	1,222	468	594	158	1,220	475	570	159	1,204
<b>% Female</b>	<b>25%</b>	<b>37%</b>	<b>30%</b>	<b>30%</b>	<b>25%</b>	<b>37%</b>	<b>32%</b>	<b>31%</b>	<b>26%</b>	<b>37%</b>	<b>32%</b>	<b>31%</b>
White	1,326	1,294	331	2,951	1,318	1,220	328	2,866	798	1,211	326	2,335
African Amer.	23	41	9	73	25	34	9	68	12	44	10	66
Hispanic	26	38	8	72	36	28	9	73	19	29	6	54
Asian/Pac.Isl.	466	274	160	900	473	125	144	742	214	160	155	529
Am.Ind./Alaskan	5	7	6	18	4	4	4	12	4	4	4	12
<b>% Minority</b>	<b>28%</b>	<b>22%</b>	<b>36%</b>	<b>26%</b>	<b>29%</b>	<b>14%</b>	<b>34%</b>	<b>24%</b>	<b>24%</b>	<b>16%</b>	<b>35%</b>	<b>22%</b>

\* Personnel includes faculty plus all others (academic staff, graduate teaching and research assistants, research associates and assistants, student research assistants, technical staff).

**SME PERSONNEL\* DEMOGRAPHICS FOR KSU, KU, AND WSU (continued)**

*Academic Year Beginning Fall of*

	1991			1992			1993			1994		
<b>SCIENCE**</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>Total</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>Total</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>Total</b>
Male	595	861	138	1,594	588	990	136	1,714	950	917	145	2,012
Female	173	469	117	759	173	631	116	920	378	593	118	1,089
<b>% Female</b>	<b>23%</b>	<b>35%</b>	<b>46%</b>	<b>32%</b>	<b>23%</b>	<b>39%</b>	<b>46%</b>	<b>35%</b>	<b>28%</b>	<b>39%</b>	<b>45%</b>	<b>35%</b>
White	665	1016	214	1,895	661	1241	212	2,114	1018	1183	221	2,422
African Amer.	4	25	2	31	5	34	2	41	20	31	5	56
Hispanic	5	32	1	38	5	25	1	31	28	29	2	59
Asian/Pac.Isl.	76	245	35	356	89	313	35	437	258	263	34	555
Am.Ind/Alaskan	2	12	3	17	1	8	2	11	4	4	1	9
<b>% Minority</b>	<b>12%</b>	<b>24%</b>	<b>16%</b>	<b>19%</b>	<b>13%</b>	<b>23%</b>	<b>16%</b>	<b>20%</b>	<b>23%</b>	<b>22%</b>	<b>16%</b>	<b>22%</b>
<b>Total</b>	<b>665</b>	<b>1016</b>	<b>214</b>	<b>1,895</b>	<b>661</b>	<b>1241</b>	<b>212</b>	<b>2,114</b>	<b>1018</b>	<b>1183</b>	<b>221</b>	<b>2,422</b>
<b>KSU %</b>	<b>31%</b>	<b>27%</b>	<b>19%</b>	<b>32%</b>	<b>23%</b>	<b>39%</b>	<b>46%</b>	<b>35%</b>	<b>28%</b>	<b>39%</b>	<b>45%</b>	<b>35%</b>
<b>KU %</b>	<b>12%</b>	<b>24%</b>	<b>16%</b>	<b>19%</b>	<b>13%</b>	<b>23%</b>	<b>16%</b>	<b>20%</b>	<b>23%</b>	<b>22%</b>	<b>16%</b>	<b>22%</b>
<b>WSU %</b>	<b>4%</b>	<b>3%</b>	<b>4%</b>	<b>3%</b>	<b>2%</b>	<b>1%</b>	<b>2%</b>	<b>2%</b>	<b>3%</b>	<b>2%</b>	<b>1%</b>	<b>2%</b>
<b>Total %</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>
<b>Total</b>	<b>1,975</b>	<b>1,098</b>	<b>36%</b>		<b>1,975</b>	<b>1,098</b>	<b>36%</b>		<b>1,975</b>	<b>1,098</b>	<b>36%</b>	

	1991			1992			1993			1994		
<b>MATH</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>Total</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>Total</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>Total</b>
Male	30	64	51	145	31	80	47	158	69	73	44	186
Female	-	24	12	36	-	31	9	40	14	20	11	45
<b>% Female</b>	<b>0%</b>	<b>27%</b>	<b>19%</b>	<b>20%</b>	<b>0%</b>	<b>28%</b>	<b>16%</b>	<b>20%</b>	<b>17%</b>	<b>22%</b>	<b>20%</b>	<b>19%</b>
White	24	66	47	137	23	78	43	144	55	70	41	166
African Amer.	-	-	2	2	-	2	1	3	1	1	3	5
Hispanic	1	2	3	6	1	2	3	6	1	3	4	8
Asian/Pac.Isl.	5	19	11	35	7	27	9	43	26	17	7	50
Am.Ind/Alaskan	-	1	-	1	-	2	-	2	-	2	-	2
<b>% Minority</b>	<b>20%</b>	<b>25%</b>	<b>25%</b>	<b>24%</b>	<b>26%</b>	<b>30%</b>	<b>23%</b>	<b>27%</b>	<b>34%</b>	<b>25%</b>	<b>25%</b>	<b>28%</b>
<b>Total</b>	<b>30</b>	<b>64</b>	<b>51</b>	<b>145</b>	<b>31</b>	<b>80</b>	<b>47</b>	<b>158</b>	<b>69</b>	<b>73</b>	<b>44</b>	<b>186</b>
<b>KSU %</b>	<b>100%</b>	<b>27%</b>	<b>19%</b>	<b>20%</b>	<b>0%</b>	<b>28%</b>	<b>16%</b>	<b>20%</b>	<b>17%</b>	<b>22%</b>	<b>20%</b>	<b>19%</b>
<b>KU %</b>	<b>0%</b>	<b>24%</b>	<b>16%</b>	<b>20%</b>	<b>0%</b>	<b>23%</b>	<b>16%</b>	<b>20%</b>	<b>14%</b>	<b>20%</b>	<b>20%</b>	<b>19%</b>
<b>WSU %</b>	<b>0%</b>	<b>3%</b>	<b>4%</b>	<b>3%</b>	<b>0%</b>	<b>1%</b>	<b>2%</b>	<b>2%</b>	<b>1%</b>	<b>2%</b>	<b>1%</b>	<b>2%</b>
<b>Total %</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>
<b>Total</b>	<b>30</b>	<b>64</b>	<b>51</b>	<b>145</b>	<b>31</b>	<b>80</b>	<b>47</b>	<b>158</b>	<b>69</b>	<b>73</b>	<b>44</b>	<b>186</b>
<b>KSU %</b>	<b>30%</b>	<b>27%</b>	<b>19%</b>	<b>20%</b>	<b>0%</b>	<b>28%</b>	<b>16%</b>	<b>20%</b>	<b>17%</b>	<b>22%</b>	<b>20%</b>	<b>19%</b>
<b>KU %</b>	<b>0%</b>	<b>24%</b>	<b>16%</b>	<b>20%</b>	<b>0%</b>	<b>23%</b>	<b>16%</b>	<b>20%</b>	<b>14%</b>	<b>20%</b>	<b>20%</b>	<b>19%</b>
<b>WSU %</b>	<b>0%</b>	<b>3%</b>	<b>4%</b>	<b>3%</b>	<b>0%</b>	<b>1%</b>	<b>2%</b>	<b>2%</b>	<b>1%</b>	<b>2%</b>	<b>1%</b>	<b>2%</b>
<b>Total %</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>
<b>Total</b>	<b>188</b>	<b>188</b>	<b>188</b>	<b>188</b>	<b>188</b>	<b>188</b>	<b>188</b>	<b>188</b>	<b>188</b>	<b>188</b>	<b>188</b>	<b>188</b>
<b>KSU %</b>	<b>21%</b>	<b>23%</b>	<b>20%</b>	<b>21%</b>	<b>20%</b>	<b>23%</b>	<b>20%</b>	<b>19%</b>	<b>20%</b>	<b>23%</b>	<b>20%</b>	<b>21%</b>
<b>KU %</b>	<b>0%</b>	<b>23%</b>	<b>19%</b>	<b>21%</b>	<b>0%</b>	<b>20%</b>	<b>19%</b>	<b>19%</b>	<b>20%</b>	<b>23%</b>	<b>20%</b>	<b>21%</b>
<b>WSU %</b>	<b>0%</b>	<b>2%</b>	<b>3%</b>	<b>2%</b>	<b>0%</b>	<b>2%</b>	<b>1%</b>	<b>2%</b>	<b>1%</b>	<b>2%</b>	<b>1%</b>	<b>2%</b>
<b>Total %</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>



**SME PERSONNEL\* DEMOGRAPHICS FOR KSU, KU, AND WSU (continued)**

Academic Year Beginning Fall of

	1991			1992			1993			1994						
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total
<b>ENGINEERING</b>	134	156	147	437	138	168	121	427	289	160	144	593	348	162	168	678
Male	10	17	19	46	8	25	14	47	31	29	17	77	43	20	16	79
Female	7%	10%	11%	10%	5%	13%	10%	10%	10%	15%	11%	11%	11%	11%	9%	10%
% Female																
White	119	128	98	345	118	140	81	339	182	139	81	402	211	144	89	444
African Amer.	-	6	2	8	-	9	2	11	1	5	2	8	1	2	2	5
Hispanic	1	3	4	8	1	3	1	5	2	2	6	10	4	4	3	11
Asian/Pac.Isl.	24	35	50	109	26	41	42	109	133	42	67	242	173	32	86	291
Am.Ind./Alaskan	-	1	12	13	1	-	9	10	2	1	5	8	2	-	4	6
% Minority	17%	26%	41%	29%	19%	27%	40%	28%	43%	26%	50%	40%	46%	21%	52%	41%
<b>SCIENCE, MATH &amp; ENGINEERING</b>	759	1,081	336	2,176	757	1,238	304	2,299	1,308	1,150	333	2,791	1,389	1,101	351	2,841
Male	183	510	148	841	181	687	139	1,007	423	642	146	1,211	466	630	131	1,227
Female	19%	32%	31%	28%	19%	36%	31%	30%	24%	36%	30%	30%	25%	36%	27%	30%
% Female																
White	808	1,210	359	2,377	802	1,459	336	2,597	1,255	1,392	343	2,990	1,317	1,354	322	2,993
African Amer.	4	31	6	41	5	45	5	55	22	37	10	69	21	35	7	63
Hispanic	7	37	8	52	7	30	5	42	31	34	12	77	33	32	7	72
Asian/Pac.Isl.	105	299	96	500	122	381	86	589	417	322	108	847	478	301	141	920
Am.Ind./Alaskan	2	14	15	31	2	10	11	23	6	7	6	19	6	9	5	20
% Minority	13%	24%	26%	21%	14%	24%	24%	21%	27%	22%	28%	25%	29%	22%	33%	26%

\* Personnel includes faculty plus all others (academic staff, graduate teaching and research assistants, research associates and assistants, student research assistants, technical staff).

\*\* Starting 1994, WSU Science data no longer include Curriculum and Instruction.

**RESEARCH PERSONNEL\* RECEIVING FINANCIAL SUPPORT  
VS. GRADUATE ENROLLMENT**

**KSU**

	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>
Supported	841	809	961	1,057	1,057	1,070	1,016
Enrolled	1,216	1,282	1,361	1,442	1,474	1,398	1,277
% Supported	69%	63%	71%	73%	72%	77%	80%

**KU**

	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>
Supported	1,003	1,103	1,090	1,039	978	956	895
Enrolled	1,702	1,819	1,817	1,880	1,701	1,701	1,594
% Supported	59%	61%	60%	55%	57%	56%	56%

**WSU**

\*\*

	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>
Supported	205	172	211	242	263	253	258
Enrolled	1,000	968	1,017	1,078	950	1,102	1,193
% Supported	21%	18%	21%	22%	28%	23%	22%

**STATE**

\*\*

	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>
Supported	2,049	2,084	2,262	2,338	2,298	2,279	2,169
Enrolled	3,918	4,069	4,195	4,400	4,125	4,201	4,064
% Supported	52%	51%	54%	53%	56%	54%	53%

\*Includes research associates/assistants, post docs., graduate teaching assistants, and student research assistants.

\*\* Starting in 1994, WSU Science data no longer includes Curriculum and Instruction.

**APPENDIX C**

**SEM Graduate Enrollment**

**SEM GRADUATE ENROLLMENT**

<b>KSU</b>	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1996-97 % Change</b>	<b>1991-97 % Change</b>
Science	894	930	988	1,009	991	960	891	-7%	0%
Engineering	270	297	314	380	421	376	335	-11%	24%
Math	52	55	59	53	62	62	51	-18%	-2%
<b>Subtotal</b>	<b>1,216</b>	<b>1,282</b>	<b>1,361</b>	<b>1,442</b>	<b>1,474</b>	<b>1,398</b>	<b>1,277</b>	<b>-9%</b>	<b>5%</b>
<b>KU-Lawrence</b>									
Science	1,095	1,161	1,168	1,210	1,057	1,087	1,011	-7%	-8%
Engineering	553	597	587	606	588	553	522	-6%	-6%
Math	54	61	62	64	56	61	61	0%	13%
<b>Subtotal</b>	<b>1,702</b>	<b>1,819</b>	<b>1,817</b>	<b>1,880</b>	<b>1,701</b>	<b>1,701</b>	<b>1,594</b>	<b>-6%</b>	<b>-6%</b>
<b>WSU*</b>									
Science	694	641	623	641	511	663	735	11%	15%
Engineering	266	285	350	392	398	398	419	5%	7%
Math	40	42	44	45	41	41	39	-5%	-13%
<b>Subtotal</b>	<b>1,000</b>	<b>968</b>	<b>1,017</b>	<b>1,078</b>	<b>950</b>	<b>1,102</b>	<b>1,193</b>	<b>8%</b>	<b>11%</b>
<b>STATE</b>									
Science	2,683	2,732	2,779	2,860	2,559	2,710	2,637	-3%	-2%
Engineering	1,089	1,179	1,251	1,378	1,407	1,327	1,276	-4%	17%
Math	146	158	165	162	159	164	151	-8%	3%
<b>TOTAL</b>	<b>3,918</b>	<b>4,069</b>	<b>4,195</b>	<b>4,400</b>	<b>4,125</b>	<b>4,201</b>	<b>4,064</b>	<b>-3%</b>	<b>4%</b>

\*Percent change for WSU 1994 - 1997; Curriculum and Instruction data deleted from Science starting 1994.

## WOMEN GRADUATE ENROLLMENT

KSU	1991	1992	1993	1994	1995	1996	1997	1996-97	1991-97
								% Change	% Change
Science	285	317	326	342	341	328	303	-8%	6%
Engineering	28	27	35	52	62	50	54	8%	93%
Math	7	11	18	18	15	15	15	n.a.	n.a.
<b>Subtotal</b>	<b>320</b>	<b>355</b>	<b>379</b>	<b>412</b>	<b>418</b>	<b>393</b>	<b>372</b>	<b>-5%</b>	<b>16%</b>
<b>% of Total</b>	<b>26%</b>	<b>28%</b>	<b>28%</b>	<b>29%</b>	<b>28%</b>	<b>28%</b>	<b>29%</b>		
<b>KU-Lawrence</b>									
Science	464	514	533	569	524	542	511	-6%	10%
Engineering	75	80	84	92	88	90	80	-11%	7%
Math	22	22	20	19	20	17	23	n.a.	n.a.
<b>Subtotal</b>	<b>561</b>	<b>616</b>	<b>637</b>	<b>680</b>	<b>632</b>	<b>649</b>	<b>614</b>	<b>-5%</b>	<b>9%</b>
<b>% of Total</b>	<b>33%</b>	<b>34%</b>	<b>35%</b>	<b>36%</b>	<b>37%</b>	<b>38%</b>	<b>39%</b>		
<b>WSU*</b>									
Science	522	484	411	447	403	464	491	6%	10%
Engineering	26	30	38	38	43	43	38	-12%	0%
Math	11	16	17	18	13	13	13	n.a.	n.a.
<b>Subtotal</b>	<b>559</b>	<b>530</b>	<b>466</b>	<b>503</b>	<b>459</b>	<b>520</b>	<b>542</b>	<b>4%</b>	<b>8%</b>
<b>% of Total</b>	<b>56%</b>	<b>55%</b>	<b>46%</b>	<b>47%</b>	<b>48%</b>	<b>47%</b>	<b>45%</b>		
<b>STATE</b>									
Science	1,271	1,315	1,270	1,358	1,268	1,334	1,305	-2%	3%
Engineering	129	137	157	182	193	183	172	-6%	33%
Math	40	49	55	55	48	45	51	13%	28%
<b>TOTAL</b>	<b>1,440</b>	<b>1,501</b>	<b>1,482</b>	<b>1,595</b>	<b>1,509</b>	<b>1,562</b>	<b>1,528</b>	<b>-2%</b>	<b>6%</b>
<b>% of Total</b>	<b>36.8%</b>	<b>36.9%</b>	<b>35.3%</b>	<b>36.3%</b>	<b>36.6%</b>	<b>37.2%</b>	<b>37.6%</b>		

\*Percent change for WSU 1994 - 1997; Curriculum and Instruction data deleted from Science starting 1994.

n.a.=not applicable. Percent change not calculated. Numbers are too small to generate a meaningful percent change.

## MINORITY GRADUATE ENROLLMENT

KSU	1991	1992	1993	1994	1995	1996	1997	1996-97	1992-97
								% Change	% Change *
Science	*	46	36	36	42	51	40	-22%	-13%
Engineering	*	13	9	9	31	21	16	n.a.	n.a.
Math	*	3	2	2	3	4	4	n.a.	n.a.
<b>Subtotal</b>	*	<b>62</b>	<b>47</b>	<b>47</b>	<b>76</b>	<b>76</b>	<b>60</b>	<b>-21%</b>	<b>-3%</b>
<b>% of Total</b>	*	<b>4.8%</b>	<b>3.5%</b>	<b>3.3%</b>	<b>5.2%</b>	<b>5.4%</b>	<b>4.7%</b>		
<b>KU-Lawrence</b>									
Science	43	51	57	63	61	68	73	7%	43%
Engineering	19	20	26	25	29	34	33	-3%	65%
Math	2	4	5	6	2	2	3	n.a.	n.a.
<b>Subtotal</b>	<b>64</b>	<b>75</b>	<b>88</b>	<b>94</b>	<b>92</b>	<b>104</b>	<b>109</b>	<b>5%</b>	<b>45%</b>
<b>% of Total</b>	<b>3.8%</b>	<b>4.1%</b>	<b>4.8%</b>	<b>5.0%</b>	<b>5.4%</b>	<b>6.1%</b>	<b>6.8%</b>		
<b>WSU*</b>									
Science	38	48	39	36	30	18	41	128%	14%
Engineering	15	17	24	22	29	29	7	n.a.	n.a.
Math	1	0	1	0	2	2	2	n.a.	n.a.
<b>Subtotal</b>	<b>54</b>	<b>65</b>	<b>64</b>	<b>58</b>	<b>61</b>	<b>49</b>	<b>50</b>	<b>2%</b>	<b>-14%</b>
<b>% of Total</b>	<b>5.4%</b>	<b>6.7%</b>	<b>6.3%</b>	<b>5.4%</b>	<b>6.4%</b>	<b>4.4%</b>	<b>4.2%</b>		
<b>STATE</b>									
Science	*	145	132	135	133	137	154	12%	6%
Engineering	*	50	59	56	89	84	56	-33%	12%
Math	*	7	8	8	7	8	9	n.a.	n.a.
<b>TOTAL</b>	*	<b>202</b>	<b>199</b>	<b>199</b>	<b>229</b>	<b>229</b>	<b>219</b>	<b>-4%</b>	<b>8%</b>
<b>% of Total</b>	*	<b>5.0%</b>	<b>4.7%</b>	<b>4.5%</b>	<b>5.6%</b>	<b>5.5%</b>	<b>5.4%</b>		

\*KSU ethnic data are not available. Percent change calculated for 1992 to 1997. Unable to calculate State totals. Percent change for WSU 1994 to 1997; Curriculum and Instruction data deleted from Science starting 1994. n.a.=not applicable. Percent change not calculated. Numbers are too small to generate a meaningful percent change.

**SME GRADUATE ENROLLMENT DEMOGRAPHICS FOR KSU, KU, AND WSU**

SCIENCE	1995			1996			1997			Total	WSU	KU	Total	Percent Change 1996-97 1991-97
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU					
Male	650	533	108	1,291	632	545	199	1,376	588	500	244	1,332	-3%	
Female	341	524	403	1,268	328	542	464	1,334	303	511	491	1,305	-2%	
<b>TOTAL</b>	<b>991</b>	<b>1,057</b>	<b>511</b>	<b>2,559</b>	<b>960</b>	<b>1,087</b>	<b>663</b>	<b>2,710</b>	<b>891</b>	<b>1,011</b>	<b>735</b>	<b>2,637</b>	<b>-3%</b>	
% Female	34%	50%	79%	50%	34%	50%	70%	49%	34%	51%	67%	49%	-2%	
White	550	489	481	1,520	511	548	663	1,722	486	527	510	1,523	-12%	
African Amer.	8	18	9	35	12	20	4	36	9	20	12	41	14%	
Hispanic	15	19	10	44	13	22	6	41	12	23	12	47	15%	
Asian/Pac.Isl.	17	20	8	45	24	22	7	53	18	26	11	55	4%	
Am.Ind./Alaskan	2	4	3	9	2	4	1	7	1	4	6	11	n.a.	
Nonresident Alien	399	264	*	663	398	252	-	650	365	244	177	786	*	
Not Reported	-	243	*	243	-	219	201	420	-	167	7	174	*	
% Minority**	7%	11%	6%	8%	9%	11%	3%	7%	8%	12%	7%	9%	*	

MATH	1995			1996			1997			Total	WSU	KU	Total	Percent Change 1996-97 1991-97
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU					
Male	47	36	28	111	47	44	28	119	36	38	26	100	-16%	
Female	15	20	13	48	15	17	13	45	15	23	13	51	13%	
<b>TOTAL</b>	<b>62</b>	<b>56</b>	<b>41</b>	<b>159</b>	<b>62</b>	<b>61</b>	<b>41</b>	<b>164</b>	<b>51</b>	<b>61</b>	<b>39</b>	<b>151</b>	<b>-8%</b>	
% Female	24%	36%	32%	30%	24%	28%	32%	27%	29%	38%	33%	34%	-3%	
White	23	30	18	71	26	33	18	77	22	33	18	73	-5%	
African Amer.	1	1	1	3	1	-	1	2	1	-	1	2	n.a.	
Hispanic	1	-	1	2	1	-	1	2	1	-	1	2	n.a.	
Asian/Pac.Isl.	-	1	-	1	-	1	-	1	1	2	-	3	n.a.	
Am.Ind./Alaskan	1	-	-	1	2	1	-	3	1	1	-	2	n.a.	
Nonresident Alien	36	15	-	51	32	19	-	51	25	18	19	62	*	
Not Reporting	-	9	21	30	-	7	21	28	-	7	-	7	*	
% Minority**	12%	6%	10%	9%	13%	6%	10%	9%	15%	8%	10%	11%	*	

**SME GRADUATE ENROLLMENT DEMOGRAPHICS FOR KSU, KU, AND WSU (continued)**

	1995			1996			1997			Percent Change				
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL	1996-97	1991-97
<b>ENGINEERING</b>	359	500	355	1,214	326	463	355	1,144	281	442	381	1,104	-3%	-15%
Male	62	88	43	193	50	90	43	183	54	80	38	172	-6%	-33%
Female	421	588	398	1,407	376	553	398	1,327	335	522	419	1,276	-4%	-17%
<b>% Female</b>	15%	15%	11%	14%	13%	16%	11%	14%	16%	15%	9%	13%		
White	184	302	120	606	151	294	120	565	141	273	57	471	-17%	*
African Amer.	8	3	6	17	6	5	6	17	2	9	2	13	n.a.	
Hispanic	3	6	1	10	2	8	1	11	2	4	1	7	n.a.	
Asian/Pac.Isl.	20	19	20	59	13	19	20	52	12	19	4	35	-33%	
Am.Ind/Alaskan	-	1	2	3	-	2	2	4	-	1	-	1	n.a.	
Nonresident Alien	206	167	-	373	204	163	-	367	178	171	128	477	*	
Not Reporting	-	90	249	339	-	62	249	311	-	45	227	272	*	
<b>% Minority**</b>	14%	9%	19%	13%	12%	10%	19%	13%	10%	11%	11%	11%		

	1995			1996			1997			Percent Change				
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL	1996-97	1991-97
<b>SCIENCE, MATH &amp; ENGINEERING</b>	1,056	1,069	491	2,616	1,005	1,052	582	2,639	905	980	651	2,536	-4%	2%
Male	418	632	459	1,509	393	649	520	1,562	372	614	542	1,528	-2%	6%
Female	1,474	1,701	950	4,125	1,398	1,701	1,102	4,201	1,277	1,594	1,193	4,064	-3%	4%
<b>% Female</b>	28%	37%	48%	37%	28%	38%	47%	37%	29%	39%	45%	38%		
White	757	821	619	2,197	688	875	801	2,364	649	833	585	2,067	-13%	*
African Amer.	17	22	16	55	19	25	11	55	12	29	15	56	2%	
Hispanic	19	25	12	56	16	30	8	54	15	27	14	56	4%	
Asian/Pac.Isl.	37	40	28	105	37	42	27	106	31	47	15	93	-12%	
Am.Ind/Alaskan	3	5	5	13	4	7	3	14	2	6	6	14	n.a.	
Nonresident Alien	641	446	*	1,087	634	434	-	1,068	568	433	324	1,325	*	
Not Reporting	-	342	*	342	-	288	471	759	-	219	234	453	*	
<b>% Minority***</b>	9%	10%	9%	9%	10%	11%	6%	9%	8%	12%	8%	10%		

\* Cannot calculate percent change: KU data are by fiscal year, KSU & WSU data by academic year (e.g., 1991 data are based upon fall 1990 enrollment). KSU ethnic data are not available for 1991. WSU ethnic 1995 Science data for "nonresident alien" and "not reporting" are reflected in the "White" figures.  
 \*\* Formula used: African American + Hispanic + Asian/Pacific Islander + American Indian/Alaskan Native divided by all these groups + White  
 n.a.=not applicable. Percent change not calculated. Numbers are too small to generate a meaningful percent change.



**SME GRADUATE ENROLLMENT DEMOGRAPHICS FOR KSU, KU, AND WSU**

SCIENCE	1991*			1992			1993			1994**			Total			
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total				
Male	609	631	172	1,412	613	647	157	1,417	662	635	212	1,509	667	641	194	1,502
Female	285	464	522	1,271	317	514	484	1,315	326	533	411	1,270	342	569	447	1,358
<b>TOTAL</b>	<b>894</b>	<b>1,095</b>	<b>694</b>	<b>2,683</b>	<b>930</b>	<b>1,161</b>	<b>641</b>	<b>2,732</b>	<b>988</b>	<b>1,168</b>	<b>623</b>	<b>2,779</b>	<b>1,009</b>	<b>1,210</b>	<b>641</b>	<b>2,860</b>
% Female	32%	42%	75%	47%	34%	44%	76%	48%	33%	46%	66%	46%	34%	47%	70%	47%
White	*	561	609	1,170	509	572	545	1,626	543	546	543	1,632	550	551	497	1,598
African Amer.		12	17	29	23	12	24	59	11	15	16	42	8	17	9	34
Hispanic		13	9	22	13	17	12	42	12	17	13	42	17	17	12	46
Asian/Pac.Isl.		17	3	20	6	20	9	35	9	22	8	39	9	25	9	43
Am.Ind./Alaskan		1	9	10	4	2	3	9	4	3	2	9	2	4	6	12
Nonresident Alien		336	47	383	375	336	48	759	409	343	41	793	423	320	---	743
Not Reported		155	0	155	0	202	0	202	0	222	0	222	0	276	108	384
% Minority***	7%	7%	6%	6%	8%	8%	8%	8%	6%	9%	7%	7%	6%	10%	7%	8%
<b>MATH</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>Total</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>Total</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>Total</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>Total</b>
Male	45	32	29	106	44	39	26	109	41	42	27	110	35	45	27	107
Female	7	22	11	40	11	22	16	49	18	20	17	55	18	19	18	55
<b>TOTAL</b>	<b>52</b>	<b>54</b>	<b>40</b>	<b>146</b>	<b>55</b>	<b>61</b>	<b>42</b>	<b>158</b>	<b>59</b>	<b>62</b>	<b>44</b>	<b>165</b>	<b>53</b>	<b>64</b>	<b>45</b>	<b>162</b>
% Female	13%	41%	28%	27%	20%	36%	38%	31%	31%	32%	39%	33%	34%	30%	40%	34%
White	*	26	13	39	24	27	22	73	29	29	23	81	21	28	5	54
African Amer.		0	0	0	0	0	0	0	0	1	0	1	0	2	0	2
Hispanic		0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
Asian/Pac.Isl.		1	1	2	3	2	0	5	2	2	0	4	2	2	0	4
Am.Ind./Alaskan		1	0	1	0	2	0	2	0	2	0	2	0	2	0	2
Nonresident Alien		22	26	48	28	24	20	72	28	19	20	67	30	17	---	100
Not Reporting		4	0	4	0	6	0	6	0	9	0	9	0	13	40	53
% Minority***	7%	7%	7%	7%	11%	13%	0%	9%	6%	15%	4%	9%	9%	18%	0%	13%

**SME GRADUATE ENROLLMENT DEMOGRAPHICS FOR KSU, KU, AND WSU (continued)**

	1991			1992			1993			1994		
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total
<b>ENGINEERING</b>												
Male	242	478	240	960	270	517	255	1,042	279	503	312	1,094
Female	28	75	26	129	27	80	30	137	35	84	38	157
<b>TOTAL</b>	<b>270</b>	<b>553</b>	<b>266</b>	<b>1,089</b>	<b>297</b>	<b>597</b>	<b>285</b>	<b>1,179</b>	<b>314</b>	<b>587</b>	<b>350</b>	<b>1,251</b>
% Female	10%	14%	10%	12%	9%	13%	11%	12%	11%	14%	11%	13%
White	*	314	112	426	129	314	118	561	135	302	117	554
African Amer.	1	3	3	4	2	3	4	9	2	1	1	4
Hispanic	3	2	2	5	2	4	3	9	2	5	8	15
Asian/Pac.Isl.	14	9	9	23	9	12	9	30	5	19	13	37
Am.Ind/Alaskan	1	1	1	2	0	1	1	2	0	1	2	3
Nonresident Alien	160	139	139	299	155	190	150	495	170	181	209	560
Not Reporting	60	0	0	60	0	73	0	73	0	78	0	78
% Minority***	6%	12%	12%	7%	9%	6%	13%	8%	6%	8%	17%	10%
<b>SCIENCE, MATH &amp; ENGINEERING</b>												
Male	896	1,141	441	2,478	927	1,203	438	2,568	982	1,180	551	2,713
Female	320	561	559	1,440	355	616	530	1,501	379	637	466	1,482
<b>TOTAL</b>	<b>1,216</b>	<b>1,702</b>	<b>1,000</b>	<b>3,918</b>	<b>1,282</b>	<b>1,819</b>	<b>968</b>	<b>4,069</b>	<b>1,361</b>	<b>1,817</b>	<b>1,017</b>	<b>4,195</b>
% Female	26%	33%	56%	37%	28%	34%	55%	37%	28%	35%	46%	35%
White	*	901	734	1,635	662	913	685	2,260	707	877	683	2,267
African Amer.	13	20	20	33	25	15	28	68	13	17	17	47
Hispanic	16	11	11	27	15	21	15	51	14	22	22	58
Asian/Pac.Isl.	32	13	13	45	18	34	18	70	16	43	21	80
Am.Ind/Alaskan	3	10	10	13	4	5	4	13	4	6	4	14
Nonresident Alien	518	212	212	730	558	550	218	1,326	607	543	270	1,420
Not Reporting	219	0	0	219	0	281	0	281	0	309	0	309
% Minority***	7%	7%	7%	7%	9%	8%	9%	8%	6%	9%	9%	8%
White												
African Amer.												
Hispanic												
Asian/Pac.Isl.												
Am.Ind/Alaskan												
Nonresident Alien												
Not Reporting												
% Minority***												

\*KU data are by fiscal year, KSU & WSU data by academic year (e.g., 1991 data are based upon fall 1990 enrollment). KSU ethnic data are not available for 1991.

\*\*WSU: Science data does not include C & I data starting in 1994. Ethnicity data is by ethnic origin for US citizens only, and then, only if the student declares it.

\*\*\* Formula used: African American + Hispanic + Asian/Pacific Islander + American Indian/Alaskan Native divided by all the groups + White

**APPENDIX D**

**SEM Degrees Awarded**

**SEM DEGREES AWARDED**

TOTAL POPULATION	1991-1997									
	1991	1992	1993	1994	1995	1996	1997	1996-97 % Change	1991-97 % Change	
Ph.D.	182	236	197	218	238	241	248	3%	36%	
Masters	559	621	675	787	828	869	774	-11%	38%	
Bachelors	2,723	3,123	3,039	3,205	3,140	3,075	3,081	0%	13%	
<b>TOTAL</b>	<b>3,464</b>	<b>3,980</b>	<b>3,911</b>	<b>4,210</b>	<b>4,206</b>	<b>4,185</b>	<b>4,103</b>	<b>-2%</b>	<b>18%</b>	

**WOMEN**

Ph.D.	40	60	61	57	56	64	90	41%	125%
Masters	210	202	285	327	348	334	298	-11%	42%
Bachelors	1,111	1,233	1,235	1,257	1,260	1,249	1,347	8%	21%
<b>Subtotal</b>	<b>1,361</b>	<b>1,495</b>	<b>1,581</b>	<b>1,641</b>	<b>1,664</b>	<b>1,647</b>	<b>1,735</b>	<b>5%</b>	<b>27%</b>
<b>% of Total</b>	<b>39%</b>	<b>38%</b>	<b>40%</b>	<b>39%</b>	<b>40%</b>	<b>39%</b>	<b>42%</b>		

**MINORITIES \***

Ph.D.	1	2	11	9	26	19	18	-5%	*
Masters	16	15	34	29	37	58	53	-9%	*
Bachelors	147	172	154	218	269	311	297	-5%	*
<b>Subtotal</b>	<b>164</b>	<b>189</b>	<b>199</b>	<b>256</b>	<b>332</b>	<b>388</b>	<b>368</b>	<b>-5%</b>	<b>*</b>
<b>% of Total</b>	<b>5%</b>	<b>5%</b>	<b>5%</b>	<b>6%</b>	<b>8%</b>	<b>9%</b>	<b>9%</b>		

\* KSU ethnic data for science and math are not available from the institution's database.

**SEM Ph.D. DEGREES AWARDED**

TOTAL POPULATION	1996-97										1991-97	
	1991	1992	1993	1994	1995	1996	1997	% Change	% Change	% Change	% Change	
KSU	80	111	87	97	105	110	119	8%	8%	49%	49%	
KU	93	112	91	97	113	108	103	-5%	-5%	11%	11%	
WSU	9	13	19	24	20	23	26	13%	13%	n.a.	n.a.	
<b>TOTAL</b>	<b>182</b>	<b>236</b>	<b>197</b>	<b>218</b>	<b>238</b>	<b>241</b>	<b>248</b>	<b>3%</b>	<b>3%</b>	<b>36%</b>	<b>36%</b>	

**WOMEN**

KSU	15	23	25	14	25	19	31	n.a.	n.a.	n.a.	n.a.
KU	23	33	32	37	26	40	44	10%	10%	91%	91%
WSU	2	4	4	6	5	5	5	n.a.	n.a.	n.a.	n.a.
<b>Subtotal</b>	<b>40</b>	<b>60</b>	<b>61</b>	<b>57</b>	<b>56</b>	<b>64</b>	<b>80</b>	<b>25%</b>	<b>25%</b>	<b>100%</b>	<b>100%</b>
<b>% of Total</b>	<b>22%</b>	<b>25%</b>	<b>31%</b>	<b>26%</b>	<b>24%</b>	<b>27%</b>	<b>32%</b>				

**MINORITIES \***

KSU*	*	*	*	*	12	10	11				
KU	1	2	7	3	9	6	5				
WSU	0	0	4	6	5	3	2				
<b>Subtotal</b>	<b>1</b>	<b>2</b>	<b>11</b>	<b>9</b>	<b>26</b>	<b>19</b>	<b>18</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>
<b>% of Total</b>	<b>1%</b>	<b>1%</b>	<b>6%</b>	<b>4%</b>	<b>11%</b>	<b>8%</b>	<b>7%</b>				

\* KSU ethnic data for science and math are not available from the institution's database.  
n.a.=not applicable. Percent change not calculated. Numbers are too small to generate a meaningful percent change.

**SEM Ph.D. DEGREES AWARDED**

KSU	1991	1992	1993	1994	1995	1996	1997	1996-97	1991-97
								% Change	% Change
Science	65	94	70	75	78	84	103	23%	58%
Engineering	13	14	13	14	24	21	13	n.a.	n.a.
Math	2	3	4	8	3	5	3	n.a.	n.a.
<b>Subtotal</b>	<b>80</b>	<b>111</b>	<b>87</b>	<b>97</b>	<b>105</b>	<b>110</b>	<b>119</b>	<b>8%</b>	<b>49%</b>

KU-Lawrence	1991	1992	1993	1994	1995	1996	1997	1996-97	1991-97
								% Change	% Change
Science	76	89	69	73	97	92	87	-5%	14%
Engineering	16	18	21	19	14	15	12	n.a.	n.a.
Math	1	5	1	5	2	1	4	n.a.	n.a.
<b>Subtotal</b>	<b>93</b>	<b>112</b>	<b>91</b>	<b>97</b>	<b>113</b>	<b>108</b>	<b>103</b>	<b>-5%</b>	<b>11%</b>

WSU	1991	1992	1993	1994	1995	1996	1997	1996-97	1991-97
								% Change	% Change
Science	5	5	5	9	4	4	7	n.a.	n.a.
Engineering	4	7	12	13	15	16	16	n.a.	n.a.
Math	-	1	2	2	1	3	3	n.a.	n.a.
<b>Subtotal</b>	<b>9</b>	<b>13</b>	<b>19</b>	<b>24</b>	<b>20</b>	<b>23</b>	<b>26</b>	<b>13%</b>	<b>n.a.</b>

KSU, KU, WSU COMBINED	1991	1992	1993	1994	1995	1996	1997	1996-97	1991-97
								% Change	% Change
Science	146	188	144	157	179	180	197	9%	35%
Engineering	33	39	46	46	53	52	41	-21%	24%
Math	3	9	7	15	6	9	10	n.a.	n.a.
<b>TOTAL</b>	<b>182</b>	<b>236</b>	<b>197</b>	<b>218</b>	<b>238</b>	<b>241</b>	<b>248</b>	<b>3%</b>	<b>36%</b>

n.a.=not applicable. Percent change not calculated. Numbers are too small to generate a meaningful percentage.

**Ph.D. DEGREES EARNED BY WOMEN**

	1991	1992	1993	1994	1995	1996	1997	1996-97 % Change	1991-97 % Change
<b>KSU</b>									
Science	13	20	25	14	21	19	28		
Engineering	2	2	-	-	3	-	10		
Math	-	1	-	-	1	-	3		
<b>Subtotal</b>	<b>15</b>	<b>23</b>	<b>25</b>	<b>14</b>	<b>25</b>	<b>19</b>	<b>41</b>	n.a.	n.a.
<b>KU-Lawrence</b>									
Science	23	33	30	30	25	40	42	5%	83%
Engineering	-	-	1	4	1	-	-	n.a.	n.a.
Math	-	-	1	3	-	-	2	n.a.	n.a.
<b>Subtotal</b>	<b>23</b>	<b>33</b>	<b>32</b>	<b>37</b>	<b>26</b>	<b>40</b>	<b>44</b>	10%	91%
<b>WSU</b>									
Science	1	2	2	5	3	2	2		
Engineering	1	2	-	1	2	2	3		
Math	-	-	2	-	-	1	-		
<b>Subtotal</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>6</b>	<b>5</b>	<b>5</b>	<b>5</b>	n.a.	n.a.
<b>KSU, KU, WSU COMBINED</b>									
Science	37	55	57	49	49	61	72	18%	95%
Engineering	3	4	1	5	6	2	13	n.a.	n.a.
Math	-	1	3	3	1	1	5	n.a.	n.a.
<b>TOTAL</b>	<b>40</b>	<b>60</b>	<b>61</b>	<b>57</b>	<b>56</b>	<b>64</b>	<b>90</b>	41%	125%

n.a.=not applicable. Percent change not calculated. Numbers are too small to generate a meaningful percentage.

**Ph.D. DEGREES: MINORITIES**

KSU*	1991	1992	1993	1994	1995	1996	1997	1996-97	1991-97
								% Change	% Change
Science					6	6	9		
Engineering	-	-	1	2	6	4	2		
Math					-	-	-		
<b>Subtotal</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>12</b>	<b>10</b>	<b>11</b>	<b>n.a.</b>	<b>n.a.</b>
<b>KU-Lawrence</b>									
1991	1992	1993	1994	1995	1996	1997	1996-97	1991-97	
							% Change	% Change	
Science	1	1	6	1	8	6	4		
Engineering	-	1	1	1	1	-	1		
Math	-	-	-	1	-	-	-		
<b>Subtotal</b>	<b>1</b>	<b>2</b>	<b>7</b>	<b>3</b>	<b>9</b>	<b>6</b>	<b>5</b>	<b>n.a.</b>	<b>n.a.</b>
<b>WSU</b>									
1991	1992	1993	1994	1995	1996	1997	1996-97	1991-97	
							% Change	% Change	
Science	-	-	1	2	-	-	1		
Engineering	-	-	3	4	5	3	1		
Math	-	-	-	-	-	-	-		
<b>Subtotal</b>	<b>-</b>	<b>-</b>	<b>4</b>	<b>6</b>	<b>5</b>	<b>3</b>	<b>2</b>	<b>n.a.</b>	<b>n.a.</b>
<b>KSU, KU and WSU COMBINED</b>									
1991	1992	1993	1994	1995	1996	1997	1996-97	1991-97	
							% Change	% Change	
Science	1	1	7	3	14	12	14		
Engineering	-	1	5	7	12	7	4		
Math	-	-	-	1	-	-	-		
<b>TOTAL</b>	<b>1</b>	<b>2</b>	<b>12</b>	<b>11</b>	<b>26</b>	<b>19</b>	<b>18</b>	<b>n.a.</b>	<b>n.a.</b>

\*1991-1994 KSU ethnic data for science and math are not available from the institution's database. n.a.=not applicable. Percent change not calculated. Numbers are too small to generate a meaningful percentage.



SME Ph.D. DEGREES FOR KSU, KU, AND WSU: Phase 2

SCIENCE	1995			1996			1997			1996-97			1991-97		
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL	% Change	TOTAL	% Change
Male	57	72	1	130	65	52	2	119	75	45	5	125	5%	125	-15%
Female	21	25	3	49	19	40	2	61	28	42	2	72	18%	72	-95%
<b>TOTAL</b>	<b>78</b>	<b>97</b>	<b>4</b>	<b>179</b>	<b>84</b>	<b>92</b>	<b>4</b>	<b>180</b>	<b>103</b>	<b>87</b>	<b>7</b>	<b>197</b>	<b>9%</b>	<b>197</b>	<b>-35%</b>
% Female	27%	26%	75%	27%	23%	43%	50%	34%	27%	48%	29%	37%			
Caucasian	39	46	4	89	41	32	3	76	34	31	6	71	-7%	71	*
African Amer.	1	0	0	1	2	2	0	4	3	2	0	5	n.a.	5	n.a.
Hispanic	0	2	0	2	3	0	0	3	1	2	0	3	n.a.	3	n.a.
Asian/Pac. Isl.	5	3	0	8	1	2	0	3	5	0	1	6	n.a.	6	n.a.
Am.Ind./Alaskan	0	3	0	3	0	2	0	2	0	0	0	0	n.a.	0	14%
Nonresident Alien	33	35	0	68	37	39	1	77	60	28	0	88		88	
Not Reported	0	11	0	11	0	15	0	15	0	24	0	24		24	n.a.
% Minority**	13%	15%	0%	14%	13%	16%	0%	14%	21%	11%	14%	16%		16%	
<b>MATH</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>2</b>	<b>8</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>8</b>		<b>8</b>	
Male	2	0	0	2	0	0	1	1	0	2	0	2		2	
Female	4	2	1	7	5	1	3	9	3	4	3	10	n.a.	10	n.a.
<b>TOTAL</b>	<b>50%</b>	<b>0%</b>	<b>0%</b>	<b>29%</b>	<b>0%</b>	<b>0%</b>	<b>33%</b>	<b>11%</b>	<b>0%</b>	<b>50%</b>	<b>0%</b>	<b>20%</b>		<b>20%</b>	
% Female															
Caucasian	13	1	0	14	2	0	0	2	1	1	0	2		2	*
African Amer.	0	0	0	0	0	0	0	0	0	0	0	0		0	
Hispanic	1	0	0	1	0	0	0	0	0	0	0	0		0	
Asian/Pac. Isl.	0	0	0	0	0	0	0	0	0	0	0	0		0	
Am.Ind./Alaskan	0	0	0	0	0	0	0	0	0	0	0	0		0	
Nonresident Alien	3	1	1	5	3	1	3	7	2	2	3	7		7	
Not Reported	0	0	0	0	0	0	0	0	0	1	0	1	n.a.	1	n.a.
% Minority**	7%	0%	0%	7%	0%	***	***	0%	0%	***	***	0%		0%	

SME Ph.D. DEGREES FOR KSU, KU, AND WSU: Phase 2 (continued)

ENGINEERING	1995			1996			1997			1996-97			1991-97		
	KSU	WSU	TOTAL	KSU	WSU	TOTAL	KSU	WSU	TOTAL	KSU	WSU	TOTAL	% Change	% Change	% Change
Male	21	13	34	21	15	36	10	14	24	12	13	25	-30%	-17%	
Female	3	1	4	0	0	0	3	2	5	0	3	3	n.a.	n.a.	
<b>TOTAL</b>	<b>24</b>	<b>14</b>	<b>38</b>	<b>21</b>	<b>15</b>	<b>36</b>	<b>13</b>	<b>16</b>	<b>29</b>	<b>12</b>	<b>16</b>	<b>28</b>	<b>-21%</b>	<b>-24%</b>	
% Female	13%	7%	11%	0%	0%	0%	23%	4%	8%	0%	19%	15%			
Caucasian	6	5	11	2	6	8	1	6	7	3	5	8	n.a.	n.a.	
African Amer.	0	0	0	0	0	0	0	1	1	0	0	0	n.a.	n.a.	
Hispanic	0	0	0	0	0	0	0	0	0	0	0	0	n.a.	n.a.	
Asian/Pac. Isl.	6	1	7	4	0	4	1	2	3	1	1	2	n.a.	n.a.	
Am.Ind/Alaskan	0	0	0	0	0	0	0	0	0	0	0	0	n.a.	n.a.	
Nonresident Alien	12	8	20	15	7	22	10	7	17	7	10	17	-7%	-35%	
Not Reported	0	0	0	0	2	2	0	0	2	0	1	1	n.a.	n.a.	
% Minority**	50%	17%	33%	67%	0%	33%	67%	33%	33%	25%	17%	31%			

SCIENCE, MATH, & ENGINEERING	1995			1996			1997			1996-97			1991-97		
	KSU	WSU	TOTAL	KSU	WSU	TOTAL	KSU	WSU	TOTAL	KSU	WSU	TOTAL	% Change	% Change	% Change
Male	80	87	167	91	68	159	88	18	106	59	21	80	-5%	-18%	
Female	26	26	52	19	40	59	31	5	36	44	5	49	25%	-100%	
<b>TOTAL</b>	<b>106</b>	<b>113</b>	<b>219</b>	<b>110</b>	<b>108</b>	<b>218</b>	<b>119</b>	<b>23</b>	<b>142</b>	<b>103</b>	<b>26</b>	<b>129</b>	<b>3%</b>	<b>-36%</b>	
% Female	25%	23%	24%	17%	37%	27%	26%	22%	27%	43%	19%	32%			
Caucasian	58	52	110	45	38	83	36	9	45	35	11	46	-11%	*	
African Amer.	1	0	1	2	2	4	3	1	4	2	0	2	n.a.		
Hispanic	1	2	3	3	0	3	2	0	2	2	0	4	n.a.		
Asian/Pac. Isl.	11	4	15	5	2	7	6	2	8	1	2	9	n.a.		
Am.Ind/Alaskan	0	3	3	0	2	2	0	0	2	0	0	0	n.a.		
Nonresident Alien	48	44	92	55	47	102	72	11	83	37	13	50	8%		
Not Reported	0	11	11	0	17	17	0	0	17	0	0	17	n.a.		
% Minority**	18%	15%	19%	18%	14%	17%	23%	25%	17%	13%	15%	18%			

\* KU data are by fiscal year. KSU and WSU data are by academic year. KSU ethnic data are not available from the institution's database.

\*\* Formula used: African American + Hispanic + Asian/Pacific Islander + American Indian/Alaskan Native divided by all these groups + Caucasian. n.a.=not applicable. Percent change not calculated. Numbers are too small to generate a meaningful percent change.

SME Ph.D. DEGREES FOR KSU, KU, AND WSU

SCIENCE	1991*			1992			1993			1994			1995			
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total
Male	52	53	4	109	74	56	3	133	45	39	3	87	61	43	4	108
Female	13	23	1	37	20	33	2	55	25	30	2	57	14	30	5	49
<b>TOTAL</b>	<b>65</b>	<b>76</b>	<b>5</b>	<b>146</b>	<b>94</b>	<b>89</b>	<b>5</b>	<b>188</b>	<b>70</b>	<b>69</b>	<b>5</b>	<b>144</b>	<b>75</b>	<b>73</b>	<b>9</b>	<b>157</b>
% Female	20%	30%	20%	25%	21%	37%	40%	29%	36%	43%	40%	40%	19%	41%	56%	31%
Caucasian	*	59	5	64	*	60	4	64	*	44	3	47	*	40	4	44
African Amer.		1	0	1	1	1	0	1	1	1	1	2	1	0	0	1
Hispanic		0	0	0	0	0	0	0	1	0	0	1	0	0	0	0
Asian/Pac. Isl.		0	0	0	0	0	0	0	4	0	1	4	1	2	3	5
Am.Ind./Alaskan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nonresident Alien		16	0	16	1	27	1	28	1	17	1	18	3	30	3	33
Not Reported		0	0	0	1	1	0	1	2	2	0	2	2	2	0	2
% Minority**		2%	0%	2%	2%	2%	0%	2%	12%	25%	13%	6%	13%	15%	0%	14%

MATH	1991			1992			1993			1994			1995			
	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total	KSU	KU	WSU	Total
Male	2	1	0	3	2	5	1	8	4	0	0	4	8	2	2	12
Female	0	0	0	0	1	0	0	1	0	1	2	3	0	3	0	3
<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>5</b>	<b>1</b>	<b>9</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>7</b>	<b>8</b>	<b>5</b>	<b>2</b>	<b>15</b>
% Female	0%	0%	0%	0%	33%	0%	0%	11%	0%	100%	100%	43%	0%	60%	0%	20%
Caucasian	*	1	0	1	*	3	1	4	*	0	1	1	*	2	0	2
African Amer.		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hispanic		0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Asian/Pac. Isl.		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Am.Ind./Alaskan		0	0	0	0	0	0	0	0	1	0	1	0	0	0	1
Nonresident Alien		0	0	0	2	2	0	2	2	2	2	4	3	1	1	5
Not Reported		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Minority**		0%	0%	0%	0%	0%	0%	0%	0%	33%	0%	33%	7%	0%	0%	7%

SME Ph.D. DEGREES FOR KSU, KU, AND WSU (continued)

	1991			1992			1993			1994			1995						
	KSU	WSU	Total	KSU	WSU	Total	KSU	WSU	Total	KSU	WSU	Total	KSU	WSU	Total				
ENGINEERING	11	16	3	30	12	18	5	35	13	45	14	15	12	41	21	41	13	13	47
Male	2	0	1	3	2	0	2	4	0	1	0	4	1	5	3	1	2	2	6
Female	13	16	4	33	14	18	7	39	13	46	14	19	13	46	24	14	15	15	53
<b>TOTAL</b>	<b>15%</b>	<b>0%</b>	<b>25%</b>	<b>9%</b>	<b>14%</b>	<b>0%</b>	<b>29%</b>	<b>10%</b>	<b>0%</b>	<b>5%</b>	<b>0%</b>	<b>21%</b>	<b>8%</b>	<b>11%</b>	<b>13%</b>	<b>7%</b>	<b>13%</b>	<b>13%</b>	<b>11%</b>
% Female																			
Caucasian	2	8	2	12	3	7	1	11	2	18	2	10	4	16	6	5	4	4	15
African Amer.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hispanic	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	2	2
Asian/Pac. Isl.	0	0	0	0	0	1	0	1	1	4	2	1	3	6	6	1	3	10	10
Am.Ind./Alaskan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nonresident Alien	11	8	2	21	11	2	6	19	10	23	10	10	5	25	12	8	6	6	26
Not Reported	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
% Minority	0%	0%	0%	0%	0%	13%	0%	8%	33%	22%	50%	9%	50%	30%	50%	17%	56%	44%	44%

SCIENCE, MATH, 1991

	1991			1992			1993			1994			1995							
	KSU	WSU	Total	KSU	WSU	Total	KSU	WSU	Total	KSU	WSU	Total	KSU	WSU	Total					
ENGINEERING	65	70	7	142	88	79	9	176	62	59	15	136	83	60	18	161	80	87	15	182
Male	15	23	2	40	23	33	4	60	25	32	4	61	14	37	6	57	26	26	5	57
Female	80	93	9	182	111	112	13	236	87	91	19	197	97	97	24	218	106	113	20	239
<b>TOTAL</b>	<b>19%</b>	<b>25%</b>	<b>22%</b>	<b>22%</b>	<b>21%</b>	<b>29%</b>	<b>31%</b>	<b>25%</b>	<b>29%</b>	<b>35%</b>	<b>21%</b>	<b>31%</b>	<b>14%</b>	<b>38%</b>	<b>25%</b>	<b>26%</b>	<b>25%</b>	<b>23%</b>	<b>25%</b>	<b>24%</b>
% Female																				
Caucasian	*	68	7	75	*	70	6	76	*	55	9	64	*	52	8	60	58	52	8	118
African Amer.	1	0	0	1	0	1	0	1	1	1	1	2	0	0	0	0	1	0	0	1
Hispanic	0	0	0	0	0	0	0	0	2	2	0	2	0	0	1	1	1	2	2	5
Asian/Pac. Isl.	0	0	0	0	0	1	0	1	4	4	3	7	2	2	5	7	11	4	3	18
Am.Ind./Alaskan	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	3	0	3
Nonresident Alien	24	2	2	26	31	7	38	38	27	6	33	42	10	52	48	44	7	44	7	99
Not Reported	0	0	0	0	0	1	0	1	2	2	0	2	0	3	0	3	0	11	0	11
% Minority	1%	0%	0%	1%	3%	0%	0%	3%	11%	31%	31%	15%	43%	5%	38%	15%	38%	15%	38%	19%

\* KU data are by fiscal year. KSU and WSU data are by academic year. KSU ethnic data are not available from the institution's database.

\*\* Formula used: African American + Hispanic + Asian/Pacific Islander + American Indian/Alaskan Native divided by all groups.

**SEM MASTERS DEGREES**

	1991	1992	1993	1994	1995	1996	1997	1996-97 % Change	1991-97 % Change
<b>KSU</b>									
Science	113	147	143	175	151	153	143	-7%	27%
Engineering	64	70	67	76	114	111	115	4%	80%
Math	2	7	4	9	4	13	11	n.a.	n.a.
<b>Subtotal</b>	<b>179</b>	<b>224</b>	<b>214</b>	<b>260</b>	<b>269</b>	<b>277</b>	<b>269</b>	<b>3%</b>	<b>55%</b>

	1991	1992	1993	1994	1995	1996	1997	1996-97 % Change	1991-97 % Change
<b>KU-Lawrence</b>									
Science	129	143	119	144	142	138	137	-1%	6%
Engineering	94	112	116	95	118	136	107	-21%	14%
Math	12	14	6	12	9	6	7	n.a.	n.a.
<b>Subtotal</b>	<b>235</b>	<b>269</b>	<b>241</b>	<b>251</b>	<b>269</b>	<b>280</b>	<b>251</b>	<b>-10%</b>	<b>7%</b>

	1991	1992	1993	1994	1995	1996	1997	1996-97 % Change	1991-97 % Change
<b>WSU</b>									
Science	91	78	164	190	194	207	155	-25%	70%
Engineering	53	48	48	78	87	100	87	-13%	64%
Math	1	2	8	8	9	5	12	n.a.	n.a.
<b>Subtotal</b>	<b>145</b>	<b>128</b>	<b>220</b>	<b>276</b>	<b>290</b>	<b>312</b>	<b>254</b>	<b>-19%</b>	<b>75%</b>

	1991	1992	1993	1994	1995	1996	1997	1996-97 % Change	1991-97 % Change
<b>KU, KSU, AND WSU COMBINED</b>									
Science	333	368	426	509	487	498	435	-13%	31%
Engineering	211	230	231	249	319	347	309	-11%	46%
Math	15	23	18	29	22	24	30	25%	n.a.
<b>TOTAL</b>	<b>559</b>	<b>621</b>	<b>675</b>	<b>787</b>	<b>828</b>	<b>869</b>	<b>774</b>	<b>-11%</b>	<b>38%</b>

n.a.=not applicable. Percent change not calculated. Numbers are too small to generate a meaningful percentage.

**MASTERS DEGREES EARNED BY WOMEN**

<b>KSU</b>	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1996-97 % Change</b>	<b>1991-97 % Change</b>
Science	47	59	62	75	67	61	52	-15%	11%
Engineering	7	6	7	9	24	17	23	35%	n.a.
Math	-	1	3	6	2	5	-	n.a.	n.a.
<b>Subtotal</b>	<b>54</b>	<b>66</b>	<b>72</b>	<b>90</b>	<b>93</b>	<b>83</b>	<b>75</b>	<b>-10%</b>	<b>39%</b>

<b>KU-Lawrence</b>	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1996-97 % Change</b>	<b>1991-97 % Change</b>
Science	64	59	60	74	73	61	78	28%	22%
Engineering	7	17	16	12	15	29	13	n.a.	n.a.
Math	6	5	2	4	4	3	3	n.a.	n.a.
<b>Subtotal</b>	<b>77</b>	<b>81</b>	<b>78</b>	<b>90</b>	<b>92</b>	<b>93</b>	<b>94</b>	<b>1%</b>	<b>22%</b>

<b>WSU</b>	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1996-97 % Change</b>	<b>1991-97 % Change</b>
Science	73	52	132	138	144	148	115	-22%	58%
Engineering	6	3	2	4	16	7	10	n.a.	n.a.
Math	-	-	1	5	3	3	4	n.a.	n.a.
<b>Subtotal</b>	<b>79</b>	<b>55</b>	<b>135</b>	<b>147</b>	<b>163</b>	<b>158</b>	<b>129</b>	<b>-18%</b>	<b>63%</b>

<b>KU, KSU, AND WSU COMBINED</b>	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1996-97 % Change</b>	<b>1991-97 % Change</b>
Science	184	170	254	287	284	270	245	-9%	33%
Engineering	20	26	25	25	55	53	46	-13%	130%
Math	6	6	6	15	9	11	7	n.a.	n.a.
<b>TOTAL</b>	<b>210</b>	<b>202</b>	<b>285</b>	<b>327</b>	<b>348</b>	<b>334</b>	<b>298</b>	<b>-11%</b>	<b>42%</b>

n.a.=not applicable. Percent change not calculated. Numbers are too small to generate a meaningful percentage.

**MASTERS DEGREES: MINORITIES**

KSU*	1991	1992	1993	1994	1995	1996	1997	1996-97	1991-97
								% Change	% Change
Science					2	9	9		
Engineering	2	3	1	1	10	5	10		
Math						1	-		
<b>Subtotal</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>12</b>	<b>15</b>	<b>19</b>	n.a.	n.a.

KU-Lawrence	1991	1992	1993	1994	1995	1996	1997	1996-97	1991-97
								% Change	% Change
Science	4	3	6	7	4	6	13		
Engineering	6	1	5	4	2	4	6		
Math	-	-	-	-	1	1	-		
<b>Subtotal</b>	<b>10</b>	<b>4</b>	<b>11</b>	<b>11</b>	<b>7</b>	<b>11</b>	<b>19</b>	n.a.	n.a.

WSU	1991	1992	1993	1994	1995	1996	1997	1996-97	1991-97
								% Change	% Change
Science	1	5	14	11	14	21	9		
Engineering	3	3	7	6	3	10	5		
Math	-	-	1	-	1	1	1		
<b>Subtotal</b>	<b>4</b>	<b>8</b>	<b>22</b>	<b>17</b>	<b>18</b>	<b>32</b>	<b>15</b>	n.a.	n.a.

KSU, KU, AND WSU COMBINED	1991	1992	1993	1994	1995	1996	1997	1996-97	1991-97
								% Change	% Change
Science	5	8	20	18	20	36	31	-14%	*
Engineering	11	7	13	11	15	19	21	n.a.	n.a.
Math	-	-	1	-	2	3	1	n.a.	n.a.
<b>TOTAL</b>	<b>16</b>	<b>15</b>	<b>34</b>	<b>29</b>	<b>37</b>	<b>58</b>	<b>53</b>	<b>-9%</b>	<b>*</b>

\*1991-1994 KSU ethnic data for science and math are not available from institution's database.  
n.a.=not applicable. Percent change not calculated. Numbers are too small to generate a meaningful percentage.

**SEM BACHELOR DEGREES**

	1991	1992	1993	1994	1995	1996	1997	1996-97 % Change	1991-97 % Change
<b>KSU</b>									
Science	571	618	721	788	745	675	758	12%	33%
Engineering	352	429	416	403	387	397	356	-10%	1%
Math	12	19	7	12	15	8	16	n.a.	n.a.
<b>Subtotal</b>	<b>935</b>	<b>1,066</b>	<b>1,144</b>	<b>1,203</b>	<b>1,147</b>	<b>1,080</b>	<b>1,130</b>	<b>5%</b>	<b>21%</b>

	1991	1992	1993	1994	1995	1996	1997	1996-97 % Change	1991-97 % Change
<b>KU-Lawrence</b>									
Science	894	1,037	1,078	1,091	1,096	1,079	1,019	-6%	14%
Engineering	283	239	295	311	293	265	288	9%	2%
Math	33	26	26	31	18	23	26	13%	-21%
<b>Subtotal</b>	<b>1,210</b>	<b>1,302</b>	<b>1,399</b>	<b>1,433</b>	<b>1,407</b>	<b>1,367</b>	<b>1,333</b>	<b>-2%</b>	<b>10%</b>

	1991	1992	1993	1994	1995	1996	1997	1996-97 % Change	1991-97 % Change
<b>WSU</b>									
Science	421	456	333	375	399	412	446	8%	6%
Engineering	143	131	147	182	169	194	158	-19%	10%
Math	14	14	16	12	18	22	14	-36%	n.a.
<b>Subtotal</b>	<b>578</b>	<b>601</b>	<b>496</b>	<b>569</b>	<b>586</b>	<b>628</b>	<b>618</b>	<b>-2%</b>	<b>7%</b>

	1991	1992	1993	1994	1995	1996	1997	1996-97 % Change	1991-97 % Change
<b>KSU, KU, AND WSU COMBINED</b>									
Science	1,886	2,111	2,132	2,254	2,240	2,166	2,223	3%	18%
Engineering	778	799	858	896	849	856	802	-6%	3%
Math	59	59	49	55	51	53	56	6%	-5%
<b>TOTAL</b>	<b>2,723</b>	<b>2,969</b>	<b>3,039</b>	<b>3,205</b>	<b>3,140</b>	<b>3,075</b>	<b>3,081</b>	<b>0%</b>	<b>13%</b>

n.a.—not applicable. Percent change not calculated. Numbers are too small to generate a meaningful percentage.



**BACHELOR DEGREES EARNED BY WOMEN**

	1991	1992	1993	1994	1995	1996	1997	1996-97 % Change	1991-97 % Change
<b>KSU</b>									
Science	223	248	338	343	296	293	350	19%	57%
Engineering	44	56	55	53	50	51	50	-2%	14%
Math	4	7	6	5	3	5	7	n.a.	n.a.
<b>Subtotal</b>	<b>271</b>	<b>311</b>	<b>399</b>	<b>401</b>	<b>349</b>	<b>349</b>	<b>407</b>	<b>17%</b>	<b>50%</b>
<b>KU-Lawrence</b>									
1991	459	516	555	556	579	573	564	-2%	23%
Science	34	37	40	42	60	46	53	15%	56%
Engineering	12	10	9	9	5	6	11	n.a.	n.a.
Math	505	563	604	607	644	625	628	0%	24%
<b>Subtotal</b>									
<b>WSU</b>									
1991	312	325	206	226	238	256	286	12%	-8%
Science	15	14	17	19	21	12	22	n.a.	n.a.
Engineering	8	4	9	4	8	7	4	n.a.	n.a.
Math	335	343	232	249	267	275	312	13%	-7%
<b>Subtotal</b>									
<b>KSU, KU, AND WSU COMBINED</b>									
1991	994	1,089	1,099	1,125	1,113	1,122	1,200	7%	21%
Science	93	107	112	114	131	109	125	15%	34%
Engineering	24	21	24	18	16	18	22	n.a.	n.a.
Math	1,111	1,217	1,235	1,257	1,260	1,249	1,347	8%	21%
<b>TOTAL</b>									

n.a.=not applicable. Percent change not calculated. Numbers are too small to generate a meaningful percentage.

**BACHELOR DEGREES: MINORITIES**

KSU*	1991	1992	1993	1994	1995	1996	1997	1996-97	1991-97
								% Change	% Change
Science					37	48	53	10%	*
Engineering	19	21	21	24	34	17	20	n.a.	n.a.
Math					3	1	-	n.a.	n.a.
<b>Subtotal</b>	<b>19</b>	<b>21</b>	<b>21</b>	<b>24</b>	<b>74</b>	<b>66</b>	<b>73</b>	<b>11%</b>	<b>*</b>

KSU-Lawrence	1991	1992	1993	1994	1995	1996	1997	1996-97	1991-97
								% Change	% Change
Science	49	73	57	92	113	116	102	-12%	108%
Engineering	21	21	18	20	13	26	27	4%	29%
Math	2	1	2	-	1	5	2	n.a.	n.a.
<b>Subtotal</b>	<b>72</b>	<b>95</b>	<b>77</b>	<b>112</b>	<b>127</b>	<b>147</b>	<b>131</b>	<b>-11%</b>	<b>82%</b>

WSU	1991	1992	1993	1994	1995	1996	1997	1996-97	1991-97
								% Change	% Change
Science	36	30	36	55	47	56	72	29%	100%
Engineering	20	24	17	24	19	30	20	-33%	0%
Math	-	2	3	3	2	12	1	n.a.	n.a.
<b>Subtotal</b>	<b>56</b>	<b>56</b>	<b>56</b>	<b>82</b>	<b>68</b>	<b>98</b>	<b>93</b>	<b>-5%</b>	<b>66%</b>

KSU, KU AND WSU COMBINED	1991	1992	1993	1994	1995	1996	1997	1996-97	1991-97
								% Change	% Change
Science	85	103	93	147	197	220	227	3%	*
Engineering	60	66	56	68	66	73	67	-8%	12%
Math	2	3	5	3	6	18	3	n.a.	n.a.
<b>TOTAL</b>	<b>147</b>	<b>172</b>	<b>154</b>	<b>218</b>	<b>269</b>	<b>311</b>	<b>297</b>	<b>-5%</b>	<b>*</b>

\*1991-1994 KSU ethnic data for science and math are not available from institution's database.  
n.a.=not applicable. Percent change not calculated. Numbers are too small to generate a meaningful percentage.

**APPENDIX E**

**NSF Grant Activity**

**NSF GRANT ACTIVITY: PERCENT CHANGE**

*Funded plus Not Funded:*

	AMOUNT					96 to 97		91 to 97	
	1991	1992	1993*	1994	1995*	1996*	1997*	% Change	% Change
Science	\$26,495,957	\$34,262,102	\$21,425,538	\$34,210,388	\$47,761,583	\$42,198,102	\$37,232,250	-12%	41%
Math	\$3,156,013	\$5,956,317	\$1,589,277	\$2,361,476	\$2,603,532	\$4,120,110	\$2,541,857	-38%	-19%
Engineering	\$4,981,159	\$9,700,067	\$14,476,516	\$13,738,848	\$23,484,788	\$15,471,930	\$17,082,415	10%	243%
<b>TOTAL</b>	<b>\$34,633,129</b>	<b>\$49,918,486</b>	<b>\$37,491,331</b>	<b>\$50,310,712</b>	<b>\$73,849,903</b>	<b>\$61,790,142</b>	<b>\$56,856,522</b>	<b>-8%</b>	<b>64%</b>
w/o NSF EPSCoR			<b>\$33,051,331</b>		<b>\$70,793,503</b>	<b>\$60,290,142</b>	<b>\$55,300,122</b>	<b>-8%</b>	<b>60%</b>

	NUMBER					96 to 97		91 to 97	
	1991	1992	1993	1994	1995	1996	1997	% Change	% Change
Science	141	164	133	175	198	215	268	25%	90%
Math	33	45	20	31	24	32	40	25%	21%
Engineering	53	61	71	79	94	92	116	26%	119%
<b>TOTAL</b>	<b>227</b>	<b>270</b>	<b>224</b>	<b>285</b>	<b>316</b>	<b>339</b>	<b>424</b>	<b>25%</b>	<b>87%</b>

*Funded:*

	AMOUNT					96 to 97		91 to 97	
	1991	1992	1993*	1994	1995*	1996*	1997*	% Change	% Change
Science	\$6,312,926	\$6,151,310	\$5,075,751	\$9,542,850	\$9,852,951	\$8,861,361	\$9,702,844	9%	54%
Math	\$251,974	\$979,547	\$739,258	\$522,730	\$380,016	\$434,739	\$1,021,998	135%	306%
Engineering	\$480,385	\$689,266	\$5,136,757	\$1,292,677	\$4,485,410	\$2,765,910	\$4,747,046	72%	888%
<b>TOTAL</b>	<b>\$7,045,285</b>	<b>\$7,820,123</b>	<b>\$10,951,766</b>	<b>\$11,358,257</b>	<b>\$14,718,377</b>	<b>\$12,062,010</b>	<b>\$15,471,888</b>	<b>28%</b>	<b>120%</b>
w/o NSF EPSCoR			<b>\$6,511,766</b>		<b>\$11,661,977</b>	<b>\$10,562,010</b>	<b>\$13,915,488</b>	<b>32%</b>	<b>98%</b>

	NUMBER					96 to 97		91 to 97	
	1991	1992	1993	1994	1995	1996	1997	% Change	% Change
Science	50	44	43	69	68	98	99	1%	98%
Math	7	12	9	9	7	11	21	91%	200%
Engineering	8	13	9	17	31	24	40	67%	400%
<b>TOTAL</b>	<b>65</b>	<b>69</b>	<b>61</b>	<b>95</b>	<b>106</b>	<b>133</b>	<b>160</b>	<b>20%</b>	<b>146%</b>

\*Includes NSF EPSCoR. 1995 NSF EPSCoR = \$3,056,400. 1993 NSF EPSCoR=\$4,440,000.

1996 NSF EPSCoR = \$1,500,000. 1997 NSF EPSCoR = \$1,556,400.

Note: Due to a reorganization of KU grants research, KU data starting in FY96 is expenditure data rather than award data.

**NSF GRANTS AWARDED: PERCENT CHANGE**

	1991	1992	1993	1994	1995	1996	1997	1991-1997 % Change
<b>KSU</b>								
Science	\$2,907,520	\$3,370,874	\$1,889,133	\$6,184,489	\$3,767,038	\$4,019,919	\$4,187,180	44%
Engineering	\$103,901	\$425,544	\$167,096	\$597,129	\$632,701	\$690,709	\$1,876,253	1706%
Math	\$73,445	\$135,134	\$40,668	\$219,972	\$183,900	\$274,117	\$182,418	148%
<b>TOTAL</b>	<b>\$3,084,866</b>	<b>\$3,931,552</b>	<b>\$2,096,897</b>	<b>\$7,001,590</b>	<b>\$4,583,639</b>	<b>\$4,984,745</b>	<b>\$6,245,851</b>	<b>102%</b>
<b>KU</b>								
Science	\$3,345,750	\$2,682,032	\$2,806,886	\$2,798,070	\$5,294,973	\$4,494,301	\$4,869,616	46%
Engineering	\$376,484	\$24,510	\$4,859,208	\$685,043	\$3,659,150	\$1,896,555	\$2,652,546	605%
Math	\$111,775	\$700,766	\$525,478	\$151,421	\$61,627	\$140,199	\$798,033	614%
<b>TOTAL</b>	<b>\$3,834,009</b>	<b>\$3,407,308</b>	<b>\$8,191,572</b>	<b>\$3,634,534</b>	<b>\$9,015,750</b>	<b>\$6,531,055</b>	<b>\$8,320,195</b>	<b>117%</b>
w/o NSF EPSCoR								
<b>WSU</b>								
Science	\$59,656	\$98,404	\$379,732	\$560,291	\$790,940	\$347,141	\$646,048	983%
Engineering**	\$0	\$239,212	\$110,453	\$10,505	\$193,559	\$178,646	\$218,247	-9%
Math	\$66,754	\$143,647	\$173,112	\$151,337	\$134,489	\$20,423	\$41,547	-38%
<b>TOTAL</b>	<b>\$126,410</b>	<b>\$481,263</b>	<b>\$663,297</b>	<b>\$722,133</b>	<b>\$1,118,988</b>	<b>\$546,210</b>	<b>\$905,842</b>	<b>617%</b>
<b>State Total:</b>								
Science	\$6,312,926	\$6,151,310	\$5,075,751	\$9,542,850	\$9,852,951	\$8,861,361	\$9,702,844	54%
Engineering	\$480,385	\$689,266	\$5,136,757	\$1,292,677	\$4,485,410	\$2,765,910	\$4,747,046	888%
Math	\$251,974	\$979,547	\$739,258	\$522,730	\$380,016	\$434,739	\$1,021,998	306%
<b>TOTAL</b>	<b>\$7,045,285</b>	<b>\$7,820,123</b>	<b>\$10,951,766</b>	<b>\$11,358,257</b>	<b>\$14,718,377</b>	<b>\$12,062,010</b>	<b>\$15,471,888</b>	<b>120%</b>
w/o NSF EPSCoR								

\*Includes NSF EPSCoR. 1995 NSF EPSCoR = \$3,056,400. 1993 NSF EPSCoR=\$4,440,000.

1996 NSF EPSCoR = \$1,500,000. 1997 NSF EPSCoR = \$1,556,400.

*Note: Due to a reorganization of KU grants research, KU data starting in FY96 is expenditure data rather than award data.*

\*\*1997 compared to 1993; percent change.

**NUMBER AND DOLLARS FOR NSF GRANTS: FY 1997**

SCIENCE	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	37	53	9	99	\$4,187,180	\$4,869,616	\$646,048	\$9,702,844
Not Funded	55	103	11	169	\$13,898,836	\$11,560,171	\$2,070,399	\$27,529,406
<b>Total</b>	<b>92</b>	<b>156</b>	<b>20</b>	<b>268</b>	<b>\$18,086,016</b>	<b>\$16,429,787</b>	<b>\$2,716,447</b>	<b>\$37,232,250</b>
% Awarded	40%	34%	45%	37%	23%	30%	24%	26%
Avg. \$ Awarded					\$113,167	\$91,880	\$71,783	\$98,009
<b>MATH</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	5	12	4	21	\$182,418	\$798,033	\$41,547	\$1,021,998
Not Funded	8	5	6	19	\$941,957	\$906	\$576,996	\$1,519,859
<b>Total</b>	<b>13</b>	<b>17</b>	<b>10</b>	<b>40</b>	<b>\$1,124,375</b>	<b>\$798,939</b>	<b>\$618,543</b>	<b>\$2,541,857</b>
% Awarded	38%	71%	40%	53%	16%	100%	7%	40%
Avg. \$ Awarded					\$36,484	\$66,503	\$10,387	\$48,667
<b>ENGINEERING</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU*</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	23	10	7	40	\$1,876,253	\$2,652,546	\$218,247	\$4,747,046
Not Funded	32	22	22	76	\$6,517,894	\$3,610,772	\$2,206,703	\$12,335,369
<b>Total</b>	<b>55</b>	<b>32</b>	<b>29</b>	<b>116</b>	<b>\$8,394,147</b>	<b>\$6,263,318</b>	<b>\$2,424,950</b>	<b>\$17,082,415</b>
% Awarded	42%	31%	24%	34%	22%	42%	9%	28%
Avg. \$ Awarded					\$81,576	\$265,255	\$31,178	\$118,676
					w/o NSF EPSCoR	\$4,706,918		\$15,526,015
<b>OTHER</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	5	1	0	6	\$589,629	\$34,001	\$0	\$623,630
Not Funded	14	4	0	18	\$13,941,514	\$343,746	\$0	\$14,285,260
<b>Total</b>	<b>19</b>	<b>5</b>	<b>0</b>	<b>24</b>	<b>\$14,531,143</b>	<b>\$377,747</b>	<b>\$0</b>	<b>\$14,908,890</b>
% Awarded	26%	20%	**	25%	4%	9%	**	4%
Avg. \$ Awarded					\$117,926	\$34,001	**	\$103,938
<b>SME TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU*</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	65	75	20	160	\$6,245,851	\$8,320,195	\$905,842	\$15,471,888
Not Funded	95	130	39	264	\$21,358,687	\$15,171,849	\$4,854,098	\$41,384,634
<b>Total</b>	<b>160</b>	<b>205</b>	<b>59</b>	<b>424</b>	<b>\$27,604,538</b>	<b>\$23,492,044</b>	<b>\$5,759,940</b>	<b>\$56,856,522</b>
% Awarded	41%	37%	34%	38%	23%	35%	16%	27%
Avg. \$ Awarded					\$96,090	\$110,936	\$45,292	\$96,699
					w/o NSF EPSCoR	\$21,935,644		\$55,300,122
<b>SMEO TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU*</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	70	76	20	166	\$6,835,480	\$8,354,196	\$905,842	\$16,095,518
Not Funded	109	134	39	282	\$35,300,201	\$15,515,595	\$4,854,098	\$55,669,894
<b>Total</b>	<b>179</b>	<b>210</b>	<b>59</b>	<b>448</b>	<b>\$42,135,681</b>	<b>\$23,869,791</b>	<b>\$5,759,940</b>	<b>\$71,765,412</b>
% Awarded	39%	36%	34%	37%	16%	35%	16%	22%
Avg. \$ Awarded					\$97,650	\$109,924	\$45,292	\$96,961
					w/o NSF EPSCoR	\$22,313,391		\$70,209,012

*Note: Due to a reorganization of KU grants research, KU data for FY97 is expenditure data (not award data) and is, therefore, not comparable to KSU or WSU or KU data prior to FY96.*

\*Includes NSF EPSCoR. NSF EPSCoR = \$1,556,400.

\*\* Cannot calculate. Not applicable.

Note: KU data do not include Medical Center.

**NUMBER AND DOLLARS FOR NSF GRANTS: FY 1996**

SCIENCE	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	40	52	6	98	\$4,019,919	\$4,494,301	\$347,141	\$8,861,361
Not Funded	56	49	12	117	\$13,925,225	\$16,211,458	\$3,200,058	\$33,336,741
<b>Total</b>	<b>96</b>	<b>101</b>	<b>18</b>	<b>215</b>	<b>\$17,945,144</b>	<b>\$20,705,759</b>	<b>\$3,547,199</b>	<b>\$42,198,102</b>
% Awarded	42%	51%	33%	46%	22%	22%	10%	21%
Avg. \$ Awarded					\$100,498	\$86,429	\$57,857	\$90,422
<b>MATH</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	6	4	1	11	\$274,117	\$140,199	\$20,423	\$434,739
Not Funded	5	9	5	19	\$484,628	\$2,471,670	\$729,073	\$3,685,371
<b>Total</b>	<b>11</b>	<b>15</b>	<b>6</b>	<b>32</b>	<b>\$758,745</b>	<b>\$2,611,869</b>	<b>\$749,496</b>	<b>\$4,120,110</b>
% Awarded	55%	27%	17%	34%	36%	5%	3%	11%
Avg. \$ Awarded					\$45,686	\$35,050	\$20,423	\$39,522
<b>ENGINEERING</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU*</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	9	7	8	24	\$690,709	\$1,896,555	\$178,646	\$2,765,910
Not Funded	32	20	16	68	\$7,806,388	\$2,428,611	\$2,471,021	\$12,706,020
<b>Total</b>	<b>41</b>	<b>27</b>	<b>24</b>	<b>92</b>	<b>\$8,497,097</b>	<b>\$4,325,166</b>	<b>\$2,649,667</b>	<b>\$15,471,930</b>
% Awarded	22%	26%	33%	26%	8%	44%	7%	18%
Avg. \$ Awarded					\$76,745	\$270,936	\$22,331	\$115,246
					w/o NSF EPSCoR	\$2,825,166		\$13,971,930
<b>OTHER</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	2	2	0	4	\$100,688	\$135,000	\$0	\$235,688
Not Funded	14	5	0	19	\$8,522,124	\$515,458	\$0	\$9,037,582
<b>Total</b>	<b>16</b>	<b>7</b>	<b>0</b>	<b>23</b>	<b>\$8,622,812</b>	<b>\$650,458</b>	<b>\$0</b>	<b>\$9,273,270</b>
% Awarded	13%	29%	**	17%	1%	21%	**	3%
Avg. \$ Awarded					\$50,344	\$67,500	**	\$58,922
<b>SME TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU*</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	55	63	15	133	\$4,984,745	\$6,531,055	\$546,210	\$12,062,010
Not Funded	93	78	33	204	\$22,216,241	\$21,111,739	\$6,400,152	\$49,728,132
<b>Total</b>	<b>148</b>	<b>143</b>	<b>48</b>	<b>339</b>	<b>\$27,200,986</b>	<b>\$27,642,794</b>	<b>\$6,946,362</b>	<b>\$61,790,142</b>
% Awarded	37%	44%	31%	39%	18%	24%	8%	20%
Avg. \$ Awarded					\$90,632	\$103,668	\$36,414	\$90,692
					w/o NSF EPSCoR	\$26,142,794		\$60,290,142
<b>SMEO TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU*</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	57	65	15	137	\$5,085,433	\$6,666,055	\$546,210	\$12,297,698
Not Funded	107	83	33	223	\$30,738,365	\$21,627,197	\$6,400,152	\$58,765,714
<b>Total</b>	<b>164</b>	<b>150</b>	<b>48</b>	<b>362</b>	<b>\$35,823,798</b>	<b>\$28,293,252</b>	<b>\$6,946,362</b>	<b>\$71,063,412</b>
% Awarded	35%	43%	31%	38%	14%	24%	8%	17%
Avg. \$ Awarded					\$89,218	\$102,555	\$36,414	\$89,764
					w/o NSF EPSCoR	\$26,793,252		\$69,563,412

Note: Due to a reorganization of KU grants research, KU data for FY96 is expenditure data (not award data) and is, therefore, not comparable to KSU or WSU or previous KU data.

\*Includes NSF EPSCoR. NSF EPSCoR = \$1,500,000.

\*\* Cannot calculate. Not applicable.

Note: KU data do not include Medical Center.

NUMBER AND DOLLARS FOR NSF GRANTS: FY 1995

SCIENCE	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	29	26	13	68	\$3,767,038	\$5,294,973	\$790,940	\$9,852,951
Not Funded	54	62	14	130	\$17,221,017	\$16,996,831	\$3,690,784	\$37,908,632
<b>Total</b>	<b>83</b>	<b>88</b>	<b>27</b>	<b>198</b>	<b>\$20,988,055</b>	<b>\$22,291,804</b>	<b>\$4,481,724</b>	<b>\$47,761,583</b>
% Awarded	35%	30%	48%	34%	18%	24%	18%	21%
Avg. \$ Awarded					\$129,898	\$203,653	\$60,842	\$144,896
<b>MATH</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	3	1	3	7	\$183,900	\$61,627	\$134,489	\$380,016
Not Funded	7	5	5	17	\$771,898	\$881,049	\$570,569	\$2,223,516
<b>Total</b>	<b>10</b>	<b>6</b>	<b>8</b>	<b>24</b>	<b>\$955,798</b>	<b>\$942,676</b>	<b>\$705,058</b>	<b>\$2,603,532</b>
% Awarded	30%	17%	38%	29%	19%	7%	19%	15%
Avg. \$ Awarded					\$61,300	\$61,627	\$44,830	\$54,288
<b>ENGINEERING</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU*</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	13	5	13	31	\$632,701	\$3,659,150	\$193,559	\$4,485,410
Not Funded	32	17	14	63	\$8,061,820	\$7,947,901	\$2,989,657	\$18,999,378
<b>Total</b>	<b>45</b>	<b>22</b>	<b>27</b>	<b>94</b>	<b>\$8,694,521</b>	<b>\$11,607,051</b>	<b>\$3,183,216</b>	<b>\$23,484,788</b>
% Awarded	29%	23%	48%	33%	7%	32%	6%	19%
Avg. \$ Awarded					\$48,669	\$731,830	\$14,889	\$144,691
					w/o NSF EPSCoR	\$8,550,651		\$20,428,388
<b>OTHER</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	2	0	0	2	\$104,910	\$0	\$0	\$104,910
Not Funded	5	4	0	9	\$12,138,570	\$281,308	\$0	\$12,419,878
<b>Total</b>	<b>7</b>	<b>4</b>	<b>0</b>	<b>11</b>	<b>\$12,243,480</b>	<b>\$281,308</b>	<b>\$0</b>	<b>\$12,524,788</b>
% Awarded	29%	0%	**	18%	1%	0%	**	1%
Avg. \$ Awarded					\$52,455	**	**	\$52,455
<b>SME TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU*</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	45	32	29	106	\$4,583,639	\$9,015,750	\$1,118,988	\$14,718,377
Not Funded	93	84	33	210	\$26,054,735	\$25,825,781	\$7,251,010	\$59,131,526
<b>Total</b>	<b>138</b>	<b>116</b>	<b>62</b>	<b>316</b>	<b>\$30,638,374</b>	<b>\$34,841,531</b>	<b>\$8,369,998</b>	<b>\$73,849,903</b>
% Awarded	33%	28%	47%	34%	15%	26%	13%	20%
Avg. \$ Awarded					\$101,859	\$281,742	\$38,586	\$138,853
					w/o NSF EPSCoR	\$31,785,131		\$70,793,503
<b>SMEO TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU*</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	47	32	29	108	\$4,688,549	\$9,015,750	\$1,118,988	\$14,823,287
Not Funded	98	88	33	219	\$38,193,305	\$26,107,089	\$7,251,010	\$71,551,404
<b>Total</b>	<b>145</b>	<b>120</b>	<b>62</b>	<b>327</b>	<b>\$42,881,854</b>	<b>\$35,122,839</b>	<b>\$8,369,998</b>	<b>\$86,374,691</b>
% Awarded	32%	27%	47%	33%	11%	26%	13%	17%
Avg. \$ Awarded					\$99,756	\$281,742	\$38,586	\$137,253
					w/o NSF EPSCoR	\$32,066,439		\$83,318,291

\*Includes NSF EPSCoR. NSF EPSCoR = \$3,056,400

\*\* Cannot calculate. Not applicable.

Note: KU data do not include Medical Center.



NUMBER AND DOLLARS FOR NSF GRANTS: FY 1994

SCIENCE	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	35	26	8	69	\$6,184,489	\$2,798,070	\$560,291	\$9,542,850
Not Funded	39	53	14	106	\$11,479,661	\$11,014,236	\$2,173,641	\$24,667,538
<b>Total</b>	<b>74</b>	<b>79</b>	<b>22</b>	<b>175</b>	<b>\$17,664,150</b>	<b>\$13,812,306</b>	<b>\$2,733,932</b>	<b>\$34,210,388</b>
% Awarded	47%	33%	36%	39%	35%	20%	20%	28%
Avg. \$ Awarded					\$176,700	\$107,618	\$70,036	\$138,302
<b>MATH</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	4	3	2	9	\$219,972	\$151,421	\$151,337	\$522,730
Not Funded	8	9	5	22	\$711,621	\$548,971	\$578,154	\$1,838,746
<b>Total</b>	<b>12</b>	<b>12</b>	<b>7</b>	<b>31</b>	<b>\$931,593</b>	<b>\$700,392</b>	<b>\$729,491</b>	<b>\$2,361,476</b>
% Awarded	33%	25%	29%	29%	24%	22%	21%	22%
Avg. \$ Awarded					\$54,993	\$50,474	\$75,669	\$58,081
<b>ENGINEERING</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	11	5	1	17	\$597,129	\$685,043	\$10,505	\$1,292,677
Not Funded	26	17	19	62	\$3,983,237	\$6,027,164	\$2,435,770	\$12,446,171
<b>Total</b>	<b>37</b>	<b>22</b>	<b>20</b>	<b>79</b>	<b>\$4,580,366</b>	<b>\$6,712,207</b>	<b>\$2,446,275</b>	<b>\$13,738,848</b>
% Awarded	30%	23%	5%	22%	13%	10%	0.4%	9%
Avg. \$ Awarded					\$54,284	\$137,009	\$10,505	\$76,040
<b>OTHER</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	5	2	0	7	\$1,009,102	\$239,357	\$0	\$1,248,459
Not Funded	4	5	0	9	\$6,503,003	\$1,080,249	\$0	\$7,583,252
<b>Total</b>	<b>9</b>	<b>7</b>	<b>0</b>	<b>16</b>	<b>\$7,512,105</b>	<b>\$1,319,606</b>	<b>\$0</b>	<b>\$8,831,711</b>
% Awarded	56%	29%	**	44%	13%	18%	**	14%
Avg. \$ Awarded					\$201,820	\$119,679	**	\$178,351
<b>SME TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	50	34	11	95	\$7,001,590	\$3,634,534	\$722,133	\$11,358,257
Not Funded	73	79	38	190	\$16,174,519	\$17,590,371	\$5,187,565	\$38,952,455
<b>Total</b>	<b>123</b>	<b>113</b>	<b>49</b>	<b>285</b>	<b>\$23,176,109</b>	<b>\$21,224,905</b>	<b>\$5,909,698</b>	<b>\$50,310,712</b>
% Awarded	41%	30%	22%	33%	30%	17%	12%	23%
Avg. \$ Awarded					\$140,032	\$106,898	\$65,648	\$119,561
<b>SMEO TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	55	36	11	102	\$8,010,692	\$3,873,891	\$722,133	\$12,606,716
Not Funded	77	84	38	199	\$22,677,522	\$18,670,620	\$5,187,565	\$46,535,707
<b>Total</b>	<b>132</b>	<b>120</b>	<b>49</b>	<b>301</b>	<b>\$30,688,214</b>	<b>\$22,544,511</b>	<b>\$5,909,698</b>	<b>\$59,142,423</b>
% Awarded	42%	30%	22%	34%	26%	17%	12%	21%
Avg. \$ Awarded					\$145,649	\$107,608	\$65,648	\$123,595

\*\* Cannot calculate. Not applicable.

Note: KU data do not include Medical Center.

Note: KU grant data revised from previous reports.

NUMBER AND DOLLARS FOR NSF GRANTS: FY 1993

SCIENCE	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	18	18	7	43	\$1,889,133	\$2,806,886	\$379,732	\$5,075,751
Not Funded	42	40	8	90	\$7,252,291	\$8,472,757	\$624,739	\$16,349,787
<b>Total</b>	<b>60</b>	<b>58</b>	<b>15</b>	<b>133</b>	<b>\$9,141,424</b>	<b>\$11,279,643</b>	<b>\$1,004,471</b>	<b>\$21,425,538</b>
% Awarded	30%	31%	47%	32%	21%	25%	38%	24%
Avg. \$ Awarded					\$104,952	\$155,938	\$54,247	\$118,041

MATH	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	2	4	3	9	\$40,668	\$525,478	\$173,112	\$739,258
Not Funded	5	5	1	11	\$530,759	\$303,537	\$15,723	\$850,019
<b>Total</b>	<b>7</b>	<b>9</b>	<b>4</b>	<b>20</b>	<b>\$571,427</b>	<b>\$829,015</b>	<b>\$188,835</b>	<b>\$1,589,277</b>
% Awarded	29%	44%	75%	45%	7%	63%	92%	47%
Avg. \$ Awarded					\$20,334	\$131,370	\$57,704	\$82,140

ENGINEERING	NUMBER				AMOUNT			
	KSU	KU*	WSU	TOTAL	KSU	KU *	WSU	TOTAL
Awarded	3	4	2	9	\$167,096	\$4,859,208	\$110,453	\$5,136,757
Not Funded	30	19	13	62	\$4,797,565	\$3,553,626	\$988,568	\$9,339,759
<b>Total</b>	<b>33</b>	<b>23</b>	<b>15</b>	<b>71</b>	<b>\$4,964,661</b>	<b>\$8,412,834</b>	<b>\$1,099,021</b>	<b>\$14,476,516</b>
% Awarded	9%	17%	13%	13%	3%	58%	10%	35%
Avg. \$ Awarded					\$55,699	\$1,214,802	\$55,227	\$570,751
					w/o NSF EPSCoR			\$3,972,834
								\$10,036,516

OTHER	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	5	0	2	7	\$263,716	\$0	\$117,643	\$381,359
Not Funded	13	5	0	18	\$1,886,435	\$1,434,139	\$0	\$3,320,574
<b>Total</b>	<b>18</b>	<b>5</b>	<b>2</b>	<b>25</b>	<b>\$2,150,151</b>	<b>\$1,434,139</b>	<b>\$117,643</b>	<b>\$3,701,933</b>
% Awarded	28%	0%	100%	28%	12%	0%	100%	10%
Avg. \$ Awarded					\$52,743	**	\$58,822	\$54,480

SME TOTAL	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU *	WSU	TOTAL
Awarded	23	26	12	61	\$2,096,897	\$8,191,572	\$663,297	\$10,951,766
Not Funded	77	64	22	163	\$12,580,615	\$12,329,920	\$1,629,030	\$26,539,565
<b>Total</b>	<b>100</b>	<b>90</b>	<b>34</b>	<b>224</b>	<b>\$14,677,512</b>	<b>\$20,521,492</b>	<b>\$2,292,327</b>	<b>\$37,491,331</b>
% Awarded	23%	29%	35%	27%	14%	40%	29%	29%
Avg. \$ Awarded					\$91,169	\$315,060	\$55,275	\$179,537
					w/o NSF EPSCoR			\$16,081,492
								\$33,051,331

SMEO TOTAL	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU *	WSU	TOTAL
Awarded	28	26	14	68	\$2,360,613	\$8,191,572	\$780,940	\$11,333,125
Not Funded	90	69	22	181	\$14,467,050	\$13,764,059	\$1,629,030	\$29,860,139
<b>Total</b>	<b>118</b>	<b>95</b>	<b>36</b>	<b>249</b>	<b>\$16,827,663</b>	<b>\$21,955,631</b>	<b>\$2,409,970</b>	<b>\$41,193,264</b>
% Awarded	24%	27%	39%	27%	14%	37%	32%	28%
Avg. \$ Awarded					\$84,308	\$315,060	\$55,781	\$166,664
					w/o NSF EPSCoR			\$17,515,631
								\$36,753,264

\*Includes NSF EPSCoR. NSF EPSCoR=\$4,440,000

\*\* Cannot calculate. Not applicable.

Note: KU data do not include Medical Center.

Note: KU grant data revised from previous reports.

NUMBER AND DOLLARS FOR NSF GRANTS: FY 1992

SCIENCE	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	22	19	3	44	\$3,370,874	\$2,682,032	\$98,404	\$6,151,310
Not Funded	39	67	14	120	\$7,360,841	\$17,631,552	\$3,118,399	\$28,110,792
<b>Total</b>	<b>61</b>	<b>86</b>	<b>17</b>	<b>164</b>	<b>\$10,731,715</b>	<b>\$20,313,584</b>	<b>\$3,216,803</b>	<b>\$34,262,102</b>
% Awarded	36%	22%	18%	27%	31%	13%	3%	18%
Avg. \$ Awarded					\$153,222	\$141,160	\$32,801	\$139,803
<b>MATH</b>	<b>KSU*</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	5	5	2	12	\$135,134	\$700,766	\$143,647	\$979,547
Not Funded	14	8	11	33	\$3,358,040	\$744,035	\$874,695	\$4,976,770
<b>Total</b>	<b>19</b>	<b>13</b>	<b>13</b>	<b>45</b>	<b>\$3,493,174</b>	<b>\$1,444,801</b>	<b>\$1,018,342</b>	<b>\$5,956,317</b>
% Awarded	26%	38%	15%	27%	4%	49%	14%	16%
Avg. \$ Awarded					\$27,027	\$140,153	\$71,824	\$81,629
<b>ENGINEERING</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	6	2	5	13	\$425,544	\$24,510	\$239,212	\$689,266
Not Funded	26	18	4	48	\$4,538,113	\$4,302,543	\$170,145	\$9,010,801
<b>Total</b>	<b>32</b>	<b>20</b>	<b>9</b>	<b>61</b>	<b>\$4,963,657</b>	<b>\$4,327,053</b>	<b>\$409,357</b>	<b>\$9,700,067</b>
% Awarded	19%	10%	56%	21%	9%	1%	58%	7%
Avg. \$ Awarded					\$70,924	\$12,255	\$47,842	\$53,020
<b>OTHER</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	6	1	0	7	\$1,329,891	\$11,966	\$0	\$1,341,857
Not Funded	5	3	1	9	\$3,220,447	\$475,413	\$634,098	\$4,329,958
<b>Total</b>	<b>11</b>	<b>4</b>	<b>1</b>	<b>16</b>	<b>\$4,550,338</b>	<b>\$487,379</b>	<b>\$634,098</b>	<b>\$5,671,815</b>
% Awarded	55%	25%	0%	44%	29%	2%	0%	24%
Avg. \$ Awarded					\$221,649	\$11,966	**	\$191,694
<b>SME TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	33	26	10	69	\$3,931,552	\$3,407,308	\$481,263	\$7,820,123
Not Funded	79	93	29	201	\$15,256,994	\$22,678,130	\$4,163,239	\$42,098,363
<b>Total</b>	<b>112</b>	<b>119</b>	<b>39</b>	<b>270</b>	<b>\$19,188,546</b>	<b>\$26,085,438</b>	<b>\$4,644,502</b>	<b>\$49,918,486</b>
% Awarded	29%	22%	26%	26%	20%	13%	10%	16%
Avg. \$ Awarded					\$119,138	\$131,050	\$48,126	\$113,335
<b>SMEO TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	39	27	10	76	\$5,261,443	\$3,419,274	\$481,263	\$9,161,980
Not Funded	84	96	30	210	\$18,477,441	\$23,153,543	\$4,797,337	\$46,428,321
<b>Total</b>	<b>123</b>	<b>123</b>	<b>40</b>	<b>286</b>	<b>\$23,738,884</b>	<b>\$26,572,817</b>	<b>\$5,278,600</b>	<b>\$55,590,301</b>
% Awarded	32%	22%	25%	27%	22%	13%	9%	16%
Avg. \$ Awarded					\$134,909	\$126,640	\$48,126	\$120,552

\*KSU data includes statistics.

\*\* Cannot calculate. Not applicable.

Note: KU data do not include Medical Center.

Note: KU grant data revised from previous reports.

NUMBER AND DOLLARS FOR NSF GRANTS: FY 1991

SCIENCE	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	23	26	1	50	\$2,907,520	\$3,345,750	\$59,656	\$6,312,926
Not Funded	32	49	10	91	\$5,323,489	\$10,426,175	\$4,433,367	\$20,183,031
<b>Total</b>	<b>55</b>	<b>75</b>	<b>11</b>	<b>141</b>	<b>\$8,231,009</b>	<b>\$13,771,925</b>	<b>\$4,493,023</b>	<b>\$26,495,957</b>
% Awarded	42%	35%	9%	35%	35%	24%	1%	24%
Avg. \$ Awarded					\$126,414	\$128,683	\$59,656	\$126,259
<b>MATH</b>	<b>KSU*</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	3	2	2	7	\$73,445	\$111,775	\$66,754	\$251,974
Not Funded	13	10	3	26	\$1,708,067	\$1,106,845	\$89,127	\$2,904,039
<b>Total</b>	<b>16</b>	<b>12</b>	<b>5</b>	<b>33</b>	<b>\$1,781,512</b>	<b>\$1,218,620</b>	<b>\$155,881</b>	<b>\$3,156,013</b>
% Awarded	19%	17%	40%	21%	4%	9%	43%	8%
Avg. \$ Awarded					\$24,482	\$55,888	\$33,377	\$35,996
<b>ENGINEERING</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	4	4	0	8	\$103,901	\$376,484	\$0	\$480,385
Not Funded	20	18	7	45	\$1,733,744	\$1,643,584	\$1,123,446	\$4,500,774
<b>Total</b>	<b>24</b>	<b>22</b>	<b>7</b>	<b>53</b>	<b>\$1,837,645</b>	<b>\$2,020,068</b>	<b>\$1,123,446</b>	<b>\$4,981,159</b>
% Awarded	17%	18%	0%	15%	6%	19%	0%	10%
Avg. \$ Awarded					\$25,975	\$94,121	\$0	\$60,048
<b>OTHER</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	4	1	1	6	\$333,238	\$17,009	\$92,009	\$442,256
Not Funded	8	4	0	12	\$1,896,949	\$320,077	\$0	\$2,217,026
<b>Total</b>	<b>12</b>	<b>5</b>	<b>1</b>	<b>18</b>	<b>\$2,230,187</b>	<b>\$337,086</b>	<b>\$92,009</b>	<b>\$2,659,282</b>
% Awarded	33%	20%	100%	33%	15%	5%	100%	17%
Avg. \$ Awarded					\$83,310	\$17,009	\$92,009	\$73,709
<b>SME TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>
Awarded	30	32	3	65	\$3,084,866	\$3,834,009	\$126,410	\$7,045,285
Not Funded	65	77	20	162	\$8,765,300	\$13,176,604	\$5,645,940	\$27,587,844
<b>Total</b>	<b>95</b>	<b>109</b>	<b>23</b>	<b>227</b>	<b>\$11,850,166</b>	<b>\$17,010,613</b>	<b>\$5,772,350</b>	<b>\$34,633,129</b>
% Awarded	32%	29%	13%	29%	26%	23%	2%	20%
Avg. \$ Awarded					\$102,829	\$119,813	\$42,137	\$108,389
<b>SMEO TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>TOTAL</b>	<b>KSU</b>	<b>KU</b>	<b>WSU</b>	<b>AMOUNT</b>
Awarded	34	33	4	71	\$3,418,104	\$3,851,018	\$218,419	\$7,487,541
Not Funded	73	81	20	174	\$10,662,249	\$13,496,681	\$5,645,940	\$29,804,870
<b>Total</b>	<b>107</b>	<b>114</b>	<b>24</b>	<b>245</b>	<b>\$14,080,353</b>	<b>\$17,347,699</b>	<b>\$5,864,359</b>	<b>\$37,292,411</b>
% Awarded	32%	29%	17%	29%	24%	22%	4%	20%
Avg. \$ Awarded					\$100,532	\$116,698	\$54,605	\$105,458

\*KSU data includes statistics.

\*\* Cannot calculate. Not applicable.

Note: KU data do not include Medical Center.

Note: KU grant data revised from previous reports.

**APPENDIX F**

**Total Grant Activity**

**GRANT ACTIVITY ACROSS ALL AGENCIES: PERCENT CHANGE**

*Funded plus Not Funded:*

	AMOUNT						96 to 97	91 to 97	
	1991	1992	1993*	1994	1995*	1996*	1997*	% Change	% Change
Science	\$111,706,824	\$131,572,351	\$123,787,996	\$145,995,289	\$150,008,976	\$159,009,270	\$148,325,874	-7%	33%
Math	\$3,543,497	\$3,800,305	\$2,807,646	\$3,973,673	\$3,553,321	\$5,342,642	\$4,396,301	-18%	24%
Engineering	\$16,065,555	\$38,539,672	\$47,219,471	\$69,750,063	\$56,982,355	\$51,016,285	\$51,993,895	2%	224%
<b>TOTAL</b>	<b>\$131,315,876</b>	<b>\$173,912,328</b>	<b>\$173,815,113</b>	<b>\$219,719,025</b>	<b>\$210,544,652</b>	<b>\$215,368,197</b>	<b>\$204,716,070</b>	<b>-5%</b>	<b>56%</b>
w/o NSF EPSCoR			\$169,375,113		\$207,488,252	\$212,368,197	\$201,614,670	-5%	54%
w/o EPSCoR (NSF, EPA, and Defense)			\$169,375,113		\$207,288,252	\$212,168,197	\$200,075,559	-6%	52%

	NUMBER						96 to 97	91 to 97	
	1991	1992	1993	1994	1995	1996	1997	% Change	% Change
Science	853	1,104	1,154	1,155	1,124	1,393	1,163	-17%	36%
Math	36	56	30	50	36	48	59	23%	64%
Engineering	226	340	325	411	356	451	424	-6%	88%
<b>TOTAL</b>	<b>1,115</b>	<b>1,500</b>	<b>1,509</b>	<b>1,616</b>	<b>1,516</b>	<b>1,892</b>	<b>1,646</b>	<b>-13%</b>	<b>48%</b>

*Funded:*

	AMOUNT						96 to 97	91 to 97	
	1991	1992	1993*	1994	1995*	1996*	1997*	% Change	% Change
Science	\$39,535,620	\$44,155,546	\$51,294,961	\$39,965,024	\$37,853,604	\$62,278,388	\$69,953,823	12%	77%
Math	\$401,518	\$1,327,862	\$762,560	\$582,975	\$479,152	\$542,030	\$1,413,089	161%	252%
Engineer	\$6,227,692	\$13,341,581	\$18,332,179	\$12,990,500	\$17,911,215	\$18,471,162	\$27,336,051	48%	339%
<b>TOTAL</b>	<b>\$46,164,830</b>	<b>\$58,824,989</b>	<b>\$70,389,700</b>	<b>\$53,538,499</b>	<b>\$56,243,971</b>	<b>\$81,291,580</b>	<b>\$98,702,963</b>	<b>21%</b>	<b>114%</b>
w/o NSF EPSCoR			\$65,949,700		\$53,187,571	\$78,291,580	\$95,601,563	22%	107%
w/o EPSCoR (NSF, EPA, and Defense)			\$65,949,700		\$52,987,571	\$78,091,580	\$94,062,452	20%	104%

	NUMBER						96 to 97	91 to 97	
	1991	1992	1993	1994	1995	1996	1997	% Change	% Change
Science	394	533	595	588	547	867	779	-10%	98%
Math	9	24	10	12	10	16	28	75%	211%
Engineer	121	165	164	157	172	263	301	14%	149%
<b>TOTAL</b>	<b>524</b>	<b>722</b>	<b>769</b>	<b>757</b>	<b>729</b>	<b>1,146</b>	<b>1,108</b>	<b>-3%</b>	<b>111%</b>

\*Includes NSF EPSCoR, DEPCoR and EPA EPSCoR. 1997 NSF EPSCoR = \$3,101,400. 1996 NSF EPSCoR = \$3,000,000. 1995 NSF EPSCoR = \$3,056,400. 1993 NSF EPSCoR=\$4,440,000. 1997 DEPCoR=\$1,045,333. 1997 EPA EPSCoR=\$493,778. 1996 EPA EPSCoR=\$200,000. 1995 EPA EPSCoR=\$200,000. *Note: Due to a reorganization of KU grants research, KU data starting in FY96 is expenditure data rather than award data.*

**TOTAL GRANTS AWARDED: PERCENT CHANGE**

	1991	1992	1993	1994	1995*	1996*	1997*	1991-97 % Change
<b>KSU</b>								
Science	\$17,163,755	\$23,830,079	\$19,780,635	\$22,608,826	\$16,206,180	\$25,522,912	\$27,933,606	63%
Engineering	\$1,496,124	\$4,398,110	\$3,387,740	\$8,305,309	\$3,638,842	\$4,921,026	\$5,721,951	282%
Math	\$73,445	\$248,415	\$18,168	\$219,972	\$183,900	\$274,117	\$182,418	148%
<b>TOTAL</b>	<b>\$18,733,324</b>	<b>\$28,476,604</b>	<b>\$23,186,543</b>	<b>\$31,134,107</b>	<b>\$20,028,922</b>	<b>\$30,718,055</b>	<b>\$33,837,975</b>	<b>81%</b>
w/o DEPSCoR and EPA EPSCoR					<b>\$19,828,922</b>	<b>\$30,518,055</b>	<b>\$32,298,864</b>	
<b>KU</b>								
Science ***	\$21,394,197	\$19,253,576	\$30,346,004	\$14,961,545	\$20,052,621	\$34,726,473	\$39,955,778	87%
Engineering	\$3,534,318	\$6,812,277	\$13,253,504	\$4,117,452	\$12,818,309	\$10,738,473	\$16,904,151	378%
Math	\$111,775	\$804,589	\$571,280	\$211,666	\$160,763	\$247,490	\$937,447	739%
<b>TOTAL</b>	<b>\$25,040,290</b>	<b>\$26,870,442</b>	<b>\$44,170,788</b>	<b>\$19,290,663</b>	<b>\$33,031,693</b>	<b>\$45,712,436</b>	<b>\$57,797,376</b>	<b>131%</b>
w/o NSF EPSCoR			<b>\$39,730,788</b>		<b>\$29,975,293</b>	<b>\$42,712,436</b>	<b>\$54,695,976</b>	
<b>WSU</b>								
Science	\$977,668	\$1,071,891	\$1,168,322	\$2,394,653	\$1,594,803	\$2,029,003	\$2,064,439	111%
Engineering	\$1,197,250	\$2,131,194	\$1,690,935	\$567,739	\$1,454,064	\$2,811,663	\$4,709,949	293%
Math	\$216,298	\$274,858	\$173,112	\$151,337	\$134,489	\$20,423	\$293,224	36%
<b>TOTAL</b>	<b>\$2,391,216</b>	<b>\$3,477,943</b>	<b>\$3,032,369</b>	<b>\$3,113,729</b>	<b>\$3,183,356</b>	<b>\$4,861,089</b>	<b>\$7,067,612</b>	<b>196%</b>
<b>STATE TOTAL</b>								
Science	\$39,535,620	\$44,155,546	\$51,294,961	\$39,965,024	\$37,853,604	\$62,278,388	\$69,953,823	77%
Engineering	\$6,227,692	\$13,341,581	\$18,332,179	\$12,990,500	\$17,911,215	\$18,471,162	\$27,336,051	339%
Math	\$401,518	\$1,327,862	\$762,560	\$582,975	\$479,152	\$542,030	\$1,413,089	252%
<b>TOTAL</b>	<b>\$46,164,830</b>	<b>\$58,824,989</b>	<b>\$70,389,700</b>	<b>\$53,538,499</b>	<b>\$56,243,971</b>	<b>\$81,291,580</b>	<b>\$98,702,963</b>	<b>114%</b>
w/o NSF EPSCoR			<b>\$65,949,700</b>		<b>\$52,987,571</b>	<b>\$78,091,580</b>	<b>\$94,062,452</b>	

\*Includes DEPSCoR and EPA EPSCoR. 1997 DEPSCoR=\$1,045,000. 1997 EPA EPSCoR=\$493,778. 1996 EPA EPSCoR=\$200,000. 1995 EPA EPSCoR=\$200,000.

\*\*Includes NSF EPSCoR. 1997 NSF EPSCoR = \$3,101,400. 1996 NSF EPSCoR = \$3,000,000. 1995 NSF EPSCoR = \$3,056,400. 1993 NSF EPSCoR=\$4,440,000.

\*\*\* KU data do not include Medical Center.

*Note: Due to a reorganization of KU grants research, KU data starting in FY96 is expenditure data rather than award data.*

**TOTAL GRANTS: FY 1997**

SCIENCE*	NUMBER				TOTAL	AMOUNT			
	KSU	KU	WSU	TOTAL		KSU**	KU	WSU	TOTAL
Awarded	290	448	41	779	\$27,933,606	\$39,955,778	\$2,064,439	\$69,953,823	
Rejected	102	251	31	384	\$51,364,097	\$21,461,798	\$5,546,156	\$78,372,051	
<b>Total</b>	<b>392</b>	<b>699</b>	<b>72</b>	<b>1,163</b>	<b>\$79,297,703</b>	<b>\$61,417,576</b>	<b>\$7,610,595</b>	<b>\$148,325,874</b>	
% Awarded	74.0%	64.1%	56.9%	67.0%	35.2%	65.1%	27.1%	47.2%	
<i>w/o DEPSCoR &amp; EPA EPSCoR</i>				Awarded	\$ 26,394,386			\$ 68,414,712	
				Total	\$ 77,758,592			\$ 146,786,763	
				% Awarded	33.9%			46.6%	

MATH	NUMBER				TOTAL	AMOUNT			
	KSU	KU	WSU	TOTAL		KSU	KU	WSU	TOTAL
Awarded	5	16	7	28	\$182,418	\$937,447	\$293,224	\$1,413,089	
Rejected	14	8	9	31	\$2,030,354	\$50,136	\$902,722	\$2,983,212	
<b>Total</b>	<b>19</b>	<b>24</b>	<b>16</b>	<b>59</b>	<b>\$2,212,772</b>	<b>\$987,583</b>	<b>\$1,195,946</b>	<b>\$4,396,301</b>	
% Awarded	26.3%	66.7%	43.8%	47.5%	8.2%	94.9%	24.5%	32.1%	

ENGINEERING	NUMBER				TOTAL	AMOUNT			
	KSU	KU	WSU	TOTAL		KSU	KU***	WSU	TOTAL
Awarded	98	142	61	301	\$5,721,951	\$16,904,151	\$4,709,949	\$27,336,051	
Rejected	25	55	43	123	\$13,278,214	\$5,543,195	\$5,836,435	\$24,657,844	
<b>Total</b>	<b>123</b>	<b>197</b>	<b>104</b>	<b>424</b>	<b>\$19,000,165</b>	<b>\$22,447,346</b>	<b>\$10,546,384</b>	<b>\$51,993,895</b>	
% Awarded	79.7%	72.1%	58.7%	71.0%	30.1%	75.3%	44.7%	52.6%	
<i>w/o NSF EPSCoR</i>				Awarded	\$13,802,751			\$24,234,651	
				Total	\$19,345,946			\$48,892,495	
				% Awarded	71.3%			49.6%	

SME TOTAL*	NUMBER				TOTAL	AMOUNT			
	KSU	KU	WSU	TOTAL		KSU**	KU***	WSU	TOTAL
Awarded	393	606	109	1108	\$33,837,975	\$57,797,376	\$7,067,612	\$98,702,963	
Rejected	141	314	83	538	\$66,672,665	\$27,055,129	\$12,285,313	\$106,013,107	
<b>Total</b>	<b>534</b>	<b>920</b>	<b>192</b>	<b>1,646</b>	<b>\$100,510,640</b>	<b>\$84,852,505</b>	<b>\$19,352,925</b>	<b>\$204,716,070</b>	
% Awarded	73.6%	65.9%	56.8%	67.3%	33.7%	68.1%	36.5%	48.2%	
<i>w/o EPSCoR (NSF, Defense, and EPA)</i>				Awarded	\$32,298,864	\$54,695,976		\$94,062,452	
				Total	\$98,971,529	\$81,751,105		\$200,075,559	
				% Awarded	32.6%	66.9%		47.0%	

\* KU data do not include Medical Center. For FY '97, KUMC Faculty received \$47,232,492 extramural awards.

\*\*KSU Science data include DEPSCoR and EPA EPSCoR. DEPSCoR=\$1,045,333. EPA EPSCoR=\$493,778.

\*\*\* KU Engineering data include NSF EPSCoR. NSF EPSCoR = \$3,101,400

*Note: Due to a reorganization of KU grants research, KU data for FY97 is expenditure data (not award data) and is, therefore, not comparable to KSU or WSU or previous KU data.*



**TOTAL GRANTS: FY 1996**

SCIENCE*	NUMBER				TOTAL	AMOUNT			TOTAL
	KSU	KU	WSU	KSU**		KU	WSU		
Awarded	373	451	43	867	\$25,522,912	\$34,726,473	\$2,029,003	\$62,278,388	
Rejected	284	205	37	526	\$53,072,650	\$36,534,493	\$7,123,739	\$96,730,882	
<b>Total</b>	<b>657</b>	<b>656</b>	<b>80</b>	<b>1,393</b>	<b>\$78,595,562</b>	<b>\$71,260,966</b>	<b>\$9,152,742</b>	<b>\$159,009,270</b>	
% Awarded	56.8%	68.8%	53.8%	62.2%	32.5%	48.7%	22.2%	39.2%	
<i>w/o EPA EPSCoR</i>				Awarded	\$ 25,322,912			\$ 62,078,388	
				Total	\$ 78,395,562			\$ 158,809,270	
				% Awarded	32.3%			39.1%	

MATH	NUMBER				TOTAL	AMOUNT			TOTAL
	KSU	KU	WSU	KSU		KU	WSU		
Awarded	6	9	1	16	\$274,117	\$247,490	\$20,423	\$542,030	
Rejected	12	13	7	32	\$1,323,226	\$2,634,022	\$843,364	\$4,800,612	
<b>Total</b>	<b>18</b>	<b>22</b>	<b>8</b>	<b>48</b>	<b>\$1,597,343</b>	<b>\$2,881,512</b>	<b>\$863,787</b>	<b>\$5,342,642</b>	
% Awarded	33.3%	40.9%	12.5%	33.3%	17.2%	8.6%	2.4%	10.1%	

ENGINEERING	NUMBER				TOTAL	AMOUNT			TOTAL
	KSU	KU	WSU	KSU		KU***	WSU		
Awarded	79	104	80	263	\$4,921,026	\$10,738,473	\$2,811,663	\$18,471,162	
Rejected	68	86	34	188	\$16,726,705	\$ 9,429,155	\$6,389,263	\$32,545,123	
<b>Total</b>	<b>147</b>	<b>190</b>	<b>114</b>	<b>451</b>	<b>\$21,647,731</b>	<b>\$20,167,628</b>	<b>\$9,200,926</b>	<b>\$51,016,285</b>	
% Awarded	53.7%	54.9%	70.2%	58.3%	22.7%	53.2%	30.6%	36.2%	
<i>w/o NSF EPSCoR</i>				Awarded	\$7,738,473			\$15,471,162	
				Total	\$17,167,628			\$48,016,285	
				% Awarded	45.1%			32.2%	

SME TOTAL*	NUMBER				TOTAL	AMOUNT			TOTAL
	KSU	KU	WSU	KSU***		KU***	WSU		
Awarded	458	564	124	1146	\$30,718,055	\$45,712,436	\$4,861,089	\$81,291,580	
Rejected	364	304	78	746	\$71,122,581	\$48,597,670	\$14,356,366	\$134,076,617	
<b>Total</b>	<b>822</b>	<b>868</b>	<b>202</b>	<b>1,892</b>	<b>\$101,840,636</b>	<b>\$94,310,106</b>	<b>\$19,217,455</b>	<b>\$215,368,197</b>	
% Awarded	55.7%	65.0%	61.4%	60.6%	30.2%	48.5%	25.3%	37.7%	
<i>w/o EPSCoR (NSF and EPA)</i>				Awarded	\$30,518,055	\$42,712,436		\$78,091,580	
				Total	\$101,640,636	\$91,310,106		\$212,168,197	
				% Awarded	30.0%	46.8%		36.8%	

\* KU data do not include Medical Center. For FY '96, KUMC Faculty received \$40,372,471 extramural awards.

\*\*KSU Science data include EPA EPSCoR. EPA EPSCoR=\$200,000.

\*\*\* KU Engineering data include NSF EPSCoR. NSF EPSCoR = \$3,101,400

**TOTAL GRANTS: FY 1995**

SCIENCE*	NUMBER				TOTAL	AMOUNT			TOTAL
	KSU	KU	WSU	KSU**		KU	WSU		
Awarded	288	219	40	547	\$16,206,180	\$20,052,621	\$1,594,803	\$37,853,604	
Rejected	254	275	48	577	\$63,913,968	\$40,985,509	\$7,255,895	\$112,155,372	
<b>Total</b>	<b>542</b>	<b>494</b>	<b>88</b>	<b>1,124</b>	<b>\$80,120,148</b>	<b>\$61,038,130</b>	<b>\$8,850,698</b>	<b>\$150,008,976</b>	
% Awarded	53.1%	44.3%	45.5%	48.7%	20.2%	32.9%	18.0%	25.2%	
<i>w/o EPA EPSCoR</i>				Awarded	\$ 16,006,180			\$ 37,653,604	
				Total	\$ 79,920,148			\$ 149,808,976	
				% Awarded	20.0%			25.1%	

MATH	NUMBER				TOTAL	AMOUNT			TOTAL
	KSU	KU	WSU	KSU		KU	WSU		
Awarded	3	4	3	10	\$183,900	\$160,763	\$134,489	\$479,152	
Rejected	10	8	8	26	\$1,197,281	\$1,048,387	\$828,501	\$3,074,169	
<b>Total</b>	<b>13</b>	<b>12</b>	<b>11</b>	<b>36</b>	<b>\$1,381,181</b>	<b>\$1,209,150</b>	<b>\$962,990</b>	<b>\$3,553,321</b>	
% Awarded	23.1%	33.3%	27.3%	27.8%	13.3%	13.3%	14.0%	13.5%	

ENGINEERING	NUMBER				TOTAL	AMOUNT			TOTAL
	KSU	KU	WSU	KSU		KU***	WSU		
Awarded	72	65	35	172	\$3,638,842	\$12,818,309	\$1,454,064	\$17,911,215	
Rejected	72	84	28	184	\$16,105,175	\$14,680,162	\$8,285,803	\$39,071,140	
<b>Total</b>	<b>144</b>	<b>149</b>	<b>63</b>	<b>356</b>	<b>\$19,744,017</b>	<b>\$27,498,471</b>	<b>\$9,739,867</b>	<b>\$56,982,355</b>	
% Awarded	50.0%	43.6%	55.6%	48.3%	18.4%	46.6%	14.9%	31.4%	
<i>w/o NSF EPSCoR</i>				Awarded	\$9,761,909			\$14,854,815	
				Total	\$24,442,071			\$53,925,955	
				% Awarded	39.9%			27.5%	

SME TOTAL*	NUMBER				TOTAL	AMOUNT			TOTAL
	KSU	KU	WSU	KSU**		KU***	WSU		
Awarded	363	288	78	729	\$20,028,922	\$33,031,693	\$3,183,356	\$56,243,971	
Rejected	336	367	84	787	\$81,216,424	\$56,714,058	\$16,370,199	\$154,300,681	
<b>Total</b>	<b>699</b>	<b>655</b>	<b>162</b>	<b>1,516</b>	<b>\$101,245,346</b>	<b>\$89,745,751</b>	<b>\$19,553,555</b>	<b>\$210,544,652</b>	
% Awarded	51.9%	44.0%	48.1%	48.1%	19.8%	36.8%	16.3%	26.7%	
<i>w/o EPSCoR (NSF and EPA)</i>				Awarded	\$19,828,922	\$29,975,293		\$52,987,571	
				Total	\$101,045,346	\$86,689,351		\$207,288,252	
				% Awarded	19.6%	34.6%		25.6%	

\* KU data do not include Medical Center. For FY '95, KUMC Faculty received \$41,151,728 extramural awards.

\*\*KSU Science data include EPA EPSCoR. EPA EPSCoR=\$200,000.

\*\*\* KU Engineering data include NSF EPSCoR. NSF EPSCoR = \$3,056,400

**TOTAL GRANTS: FY 1994**

SCIENCE*	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	358	189	41	588	\$22,608,826	\$14,961,545	\$2,394,653	\$39,965,024
Rejected	264	261	42	567	\$69,017,337	\$31,151,322	\$5,861,606	\$106,030,265
<b>Total</b>	<b>622</b>	<b>450</b>	<b>83</b>	<b>1,155</b>	<b>\$91,626,163</b>	<b>\$46,112,867</b>	<b>\$8,256,259</b>	<b>\$145,995,289</b>
% Awarded	57.6%	42.0%	49.4%	50.9%	24.7%	32.4%	29.0%	27.4%

MATH	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	4	6	2	12	\$219,972	\$211,666	\$151,337	\$582,975
Rejected	15	16	7	38	\$1,613,757	\$982,339	\$794,602	\$3,390,698
<b>Total</b>	<b>19</b>	<b>22</b>	<b>9</b>	<b>50</b>	<b>\$1,833,729</b>	<b>\$1,194,005</b>	<b>\$945,939</b>	<b>\$3,973,673</b>
% Awarded	21.1%	27.3%	22.2%	24.0%	12.0%	17.7%	16.0%	14.7%

ENGINEERING	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	88	53	16	157	\$8,305,309	\$4,117,452	\$567,739	\$12,990,500
Rejected	99	92	63	254	\$24,022,749	\$21,026,198	\$11,710,616	\$56,759,563
<b>Total</b>	<b>187</b>	<b>145</b>	<b>79</b>	<b>411</b>	<b>\$32,328,058</b>	<b>\$25,143,650</b>	<b>\$12,278,355</b>	<b>\$69,750,063</b>
% Awarded	47.1%	36.6%	20.3%	38.2%	25.7%	16.4%	4.6%	18.6%

SME TOTAL*	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	450	248	59	757	\$31,134,107	\$19,290,663	\$3,113,729	\$53,538,499
Rejected	378	369	112	859	\$94,653,843	\$53,159,859	\$18,366,824	\$166,180,526
<b>Total</b>	<b>828</b>	<b>617</b>	<b>171</b>	<b>1,616</b>	<b>\$125,787,950</b>	<b>\$72,450,522</b>	<b>\$21,480,553</b>	<b>\$219,719,025</b>
% Awarded	54.3%	40.2%	34.5%	46.8%	24.8%	26.6%	14.5%	24.4%

\* KU data do not include Medical Center. For FY '94, KUMC Faculty received \$40,548,613 extramural awards.

**TOTAL GRANTS: FY 1993**

SCIENCE*	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	346	214	35	595	\$19,780,635	\$30,346,004	\$1,168,322	\$51,294,961
Rejected	288	229	42	559	\$40,412,252	\$28,125,001	\$3,955,782	\$72,493,035
<b>Total</b>	<b>634</b>	<b>443</b>	<b>77</b>	<b>1,154</b>	<b>\$60,192,887</b>	<b>\$58,471,005</b>	<b>\$5,124,104</b>	<b>\$123,787,996</b>
% Awarded	54.6%	48.3%	45.5%	51.6%	32.9%	51.9%	22.8%	41.4%

MATH	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	1	6	3	10	\$18,168	\$571,280	\$173,112	\$762,560
Rejected	12	6	2	20	\$1,534,427	\$361,418	\$149,241	\$2,045,086
<b>Total</b>	<b>13</b>	<b>12</b>	<b>5</b>	<b>30</b>	<b>\$1,552,595</b>	<b>\$932,698</b>	<b>\$322,353</b>	<b>\$2,807,646</b>
% Awarded	7.7%	50.0%	60.0%	33.3%	1.2%	61.3%	53.7%	27.2%

ENGINEERING	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU**	WSU	TOTAL**
Awarded	71	63	30	164	\$3,387,740	\$13,253,504	\$1,690,935	\$18,332,179
Rejected	66	62	33	161	\$13,897,304	\$9,130,303	\$5,859,685	\$28,887,292
<b>Total</b>	<b>137</b>	<b>125</b>	<b>63</b>	<b>325</b>	<b>\$17,285,044</b>	<b>\$22,383,807</b>	<b>\$7,550,620</b>	<b>\$47,219,471</b>
% Awarded	51.8%	50.4%	47.6%	50.5%	19.6%	59.2%	22.4%	38.8%
				w/o NSF EPSCoR	Awarded	\$8,813,504		\$13,892,179
					Total	\$17,943,807		\$42,779,471
					% Awarded	49.1%		32.5%

SME TOTAL*	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU**	WSU	TOTAL**
Awarded	418	283	68	769	\$23,186,543	\$44,170,788	\$3,032,369	\$70,389,700
Rejected	366	297	77	740	\$55,843,983	\$37,616,722	\$9,964,708	\$103,425,413
<b>Total</b>	<b>784</b>	<b>580</b>	<b>145</b>	<b>1,509</b>	<b>\$79,030,526</b>	<b>\$81,787,510</b>	<b>\$12,997,077</b>	<b>\$173,815,113</b>
% Awarded	53.3%	48.8%	46.9%	51.0%	29.3%	54.0%	23.3%	40.5%
				w/o NSF EPSCoR	Awarded	\$39,730,788		\$65,949,700
					Total	\$77,347,510		\$169,375,113
					% Awarded	51.4%		38.9%

\* KU data do not include Medical Center. For FY '93, KUMC Faculty received \$36,309,580 extramural awards.

\*\* KU Engineering data include NSF EPSCoR. NSF EPSCoR = \$4,440,000

**TOTAL GRANTS: FY 1992**

SCIENCE*	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	313	191	29	533	\$23,830,079	\$19,253,576	\$1,071,891	\$44,155,546
Rejected	261	271	39	571	\$40,383,856	\$40,727,205	\$6,305,744	\$87,416,805
<b>Total</b>	<b>574</b>	<b>462</b>	<b>68</b>	<b>1,104</b>	<b>\$64,213,935</b>	<b>\$59,980,781</b>	<b>\$7,377,635</b>	<b>\$131,572,351</b>
% Awarded	54.5%	41.3%	42.6%	48.3%	37.1%	32.1%	14.5%	33.6%

MATH	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	10	8	6	24	\$248,415	\$804,589	\$274,858	\$1,327,862
Rejected	17	9	6	32	\$1,415,917	\$762,209	\$294,317	\$2,472,443
<b>Total</b>	<b>27</b>	<b>17</b>	<b>12</b>	<b>56</b>	<b>\$1,664,332</b>	<b>\$1,566,798</b>	<b>\$569,175</b>	<b>\$3,800,305</b>
% Awarded	37.0%	47.1%	50.0%	42.9%	14.9%	51.4%	48.3%	34.9%

ENGINEERING	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	75	61	29	165	\$4,398,110	\$6,812,277	\$2,131,194	\$13,341,581
Rejected	89	55	31	175	\$14,033,840	\$7,097,720	\$4,066,531	\$25,198,091
<b>Total</b>	<b>164</b>	<b>116</b>	<b>60</b>	<b>340</b>	<b>\$18,431,950</b>	<b>\$13,909,997</b>	<b>\$6,197,725</b>	<b>\$38,539,672</b>
% Awarded	45.7%	52.6%	48.3%	48.5%	23.9%	49.0%	34.4%	34.6%

SME TOTAL*	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	398	260	64	722	\$28,476,604	\$26,870,442	\$3,477,943	\$58,824,989
Rejected	367	335	76	778	\$55,833,613	\$48,587,134	\$10,666,592	\$115,087,339
<b>Total</b>	<b>765</b>	<b>595</b>	<b>140</b>	<b>1,500</b>	<b>\$84,310,217</b>	<b>\$75,457,576</b>	<b>\$14,144,535</b>	<b>\$173,912,328</b>
% Awarded	52.0%	43.7%	45.7%	48.1%	33.8%	35.6%	24.6%	33.8%

\* KU data do not include Medical Center. For FY '92, KUMC Faculty received \$34,026,295 extramural awards.

**TOTAL GRANTS: FY 1991**

SCIENCE*	NUMBER				AMOUNT			TOTAL
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	
Awarded	208	158	28	394	\$17,163,755	\$21,394,197	\$977,668	\$39,535,620
Rejected	204	221	34	459	\$30,787,172	\$31,157,307	\$10,226,725	\$72,171,204
<b>Total</b>	<b>412</b>	<b>379</b>	<b>62</b>	<b>853</b>	<b>\$47,950,927</b>	<b>\$52,551,504</b>	<b>\$11,204,393</b>	<b>\$111,706,824</b>
% Awarded	50.5%	41.7%	45.2%	46.2%	35.8%	40.7%	8.7%	35.4%

MATH	NUMBER				AMOUNT			TOTAL
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	
Awarded	3	2	4	9	\$73,445	\$111,775	\$216,298	\$401,518
Rejected	9	12	6	27	\$1,446,482	\$1,287,543	\$407,954	\$3,141,979
<b>Total</b>	<b>12</b>	<b>14</b>	<b>10</b>	<b>36</b>	<b>\$1,519,927</b>	<b>\$1,399,318</b>	<b>\$624,252</b>	<b>\$3,543,497</b>
% Awarded	25.0%	14.3%	40.0%	25.0%	4.8%	8.0%	34.6%	11.3%

ENGINEERING	NUMBER				AMOUNT			TOTAL
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	
Awarded	35	55	31	121	\$1,496,124	\$3,534,318	\$1,197,250	\$6,227,692
Rejected	34	55	16	105	\$3,807,567	\$3,816,862	\$2,213,434	\$9,837,863
<b>Total</b>	<b>69</b>	<b>110</b>	<b>47</b>	<b>226</b>	<b>\$5,303,691</b>	<b>\$7,351,180</b>	<b>\$3,410,684</b>	<b>\$16,065,555</b>
% Awarded	50.7%	50.0%	66.0%	53.5%	28.2%	48.1%	35.1%	38.8%

SME TOTAL*	NUMBER				AMOUNT			TOTAL
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	
Awarded	246	215	63	524	\$18,733,324	\$25,040,290	\$2,391,216	\$46,164,830
Rejected	247	288	56	591	\$36,041,221	\$36,261,712	\$12,848,113	\$85,151,046
<b>Total</b>	<b>493</b>	<b>503</b>	<b>119</b>	<b>1,115</b>	<b>\$54,774,545</b>	<b>\$61,302,002</b>	<b>\$15,239,329</b>	<b>\$131,315,876</b>
% Awarded	49.9%	42.7%	52.9%	47.0%	34.2%	40.8%	15.7%	35.2%

\* KU data do not include Medical Center. For FY '91, KUMC Faculty received \$28,203,334 extramural awards.

**APPENDIX G**  
**EPSCoR Faculty**

## EPSCoR Faculty: Group I

### KSU

~~Banks, M.~~ (1997)  
~~Borovik, A.~~ (1996)  
 Chakrabarti, A.  
 Collinson, M.  
 Consigli, R.  
~~Dawes, W.~~ (1997)  
 Dodds, W.  
 Edgar, J.  
 Erickson, L.  
 Glasgow, L.  
~~Govindaraju, R.~~ (1997)  
 Jiang, H.  
 Klabunde, K.  
 Koelliker, J.  
 Law, B.  
 Lin, C.  
 Liñ, J.  
 Lucas, M. (1995)  
 Maata, E.  
~~Meloan, C.~~ (1996)  
 O'Shea, M.  
 Rahman, T.  
 Rice, C.  
 Rintoul, D.  
~~Riordan, C.~~ (1997)  
 Roche, T.  
 Rys, A.  
 Schlup, J.  
~~Schwab, A.~~ (1998)  
 Seib, P.  
 Sherwood, P.  
 Sorensen, C.  
 Wetzel, D.  
 Wysin, G.

### KU

Benson, D.  
 Bigelow, D.  
~~Bowman, R.~~ (1998)  
 Bowman-James, K.  
 Braaten, D.  
 Busch, D.  
 Byers, R.  
 Chu, S.  
 Cravens, T.  
~~Dorfmeister, J.~~ (1996)  
~~Engler, T.~~ (1997)  
 Gegenheimer, P.  
 Givens, R.  
 Heppert, J.  
 Johnson, C.  
 Kuczera, K.  
 Larive, C.  
~~Leimkuhler, B.~~ (1999)  
 Lerner, D.  
 Lunte, C.  
 Lunte, S.  
 Macpherson, G.  
 Melott, A.  
 Ralston, J.  
 Richter, M.  
 Shandarin, S.  
 Siahaan, T.  
 Sophocleous, M.  
 Southard, M.  
 Squier, T.  
 Subramanium, B.  
 Terwilliger, V.  
 Wilson, G.  
~~Wong, K.~~ (1995)

### WSU

Alexander, D.  
 Behrman, E.  
 Chaudhuri, J.  
 DeLillo, T.  
 Elcrat, A.  
 Hamdeh, H.  
 Kahol, P.  
 Kuchment, P.  
~~Motavalli, S.~~ (1996)  
 Papanicolaou, V.  
 Singhal, R.  
 Skinner, S.  
 Stevenson, W.  
~~Taylor, M.~~ (1998)



## EPSCoR Faculty: Group II

### KSU

*Name (Rank)*

Beeman, R. (Prof.)  
 Bolton, T. (Assoc.)  
~~Borovik, A. (1996)~~  
 Buszek, K (Asst.)  
 Collinson, M. (Asst.)  
 Conrad, G. (Prof.)  
 Denell, R. (Prof.)  
 Edgar, J. (Asst.)  
~~Fox, R. (1999)~~  
 Greiger, D. (Asst.)  
 Guikema, J. (Prof.)  
 Hua, D. (Prof.)  
 Jiang, H. (Asst.)  
 Johnson, L. (Asst.)  
 Kambhampati, S. (Asst.)  
 Klabunde, K. (Prof.)  
 Lin, C. (Prof.)  
 Lin, J. (Asst.)  
~~Li, Y. (1998.)~~  
 Maata, E. (Prof.)  
 Meng, H. (Asst.)  
 Rahman, T. (Prof.)  
 Reay, N. (Prof.)  
 Rice, C. (Assoc.)  
~~Riordan, C. (1997)~~  
 Sherwood, P. (Prof.)  
 Sidwell, R. (Assoc.)  
 Sorensen, C. (Prof.)  
 Stanton, N. (Prof.)  
~~Tordesillas, A. (1995)~~  
 Zou, Q. (Assoc.)

*Assistant = 0*

*Associate = 4*

*Professor = 13*

*KSU Total = 26*

### KU-Lawrence

*Name (Rank)*

Anthony-Twarog, B. (Prof.)  
 Bean, A. (Asst.)  
 Benson, D. (Asst.)  
 Besson, D. (Asst.)  
~~Bowman, R. (1998)~~  
 Bowman-James, K. (Prof.)  
 Busch, D. (Prof.)  
~~Christianson, M. (1999)~~  
 Chu, S. (Prof.)  
 Cohen, R. (Assoc.)  
 Corbin, V. (Asst.)  
 Cravens, T. (Prof.)  
 Dunn, R. (Asst.)  
~~Engler, T. (1997)~~  
 Georg, G. (Assoc.)  
 Givens, R. (Prof.)  
 Heppert, J. (Assoc.)  
 Huang, W. (Asst.)  
 Johnson, C. (Assoc.)  
 Kuczera, K. (Asst.)  
~~Lai, Y-C. (1999)~~  
 Laird, B. (Asst.)  
 Lan, C. (Prof.)  
~~Leimkuhler, B. (1999)~~  
 Lu, X. (Asst.)  
 Mason, K. (Asst.)  
 Melott, A. (Prof.)  
 Nguyen, T. (Asst.)  
 Ruden, D. (Asst.)  
 Shandarin, S. (Prof.)  
 Squier, T. (Asst.)  
 Subramaniam, B. (Prof.)  
 Suppes, G. (Asst.)  
 Tucker, D. (Asst.)  
 Wu, J. (Asst.)

### WSU

*Name (Rank)*

Agarwal, R. (Asst.)  
 Alexander, D. (Asst.)  
~~Arakere, N. (1996)~~  
~~Brinkman, G. (1994)~~  
 Burns, D. (Asst.)  
 Chaudhuri, J. (Asst.)  
 Hamdeh, H. (Asst.)  
 Hendry, W. (Prof.)  
 Hoffman, K. (Prof.)  
 Kahol, P. (Prof.)  
 Koert, D. (Asst.)  
 Kuchment, P. (Prof.)  
 McCormick, B. (Prof.)  
 McDonald, J. D. (Asst.)  
~~Motavalli, S. (1996)~~  
~~Rajan, V. (1998)~~  
 Schmidt, J. (Asst.)  
 Skinner, S. (Asst.)  
 Stevenson, W. (Prof.)  
 Twomey, J. (Asst.)  
~~Wollner, D. (1998)~~

*Assistant = 10*

*Associate = 0*

*Professor = 6*

*WSU Total = 16*

### (KU)

*Assistant = 16*

*Associate = 4*

*Professor = 10*

*KU Total = 30*