THE UNIVERSITY OF KANSAS
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Sixth Assessment of the Science, Engineering, and Math Infrastructure at Three Universities in Kansas

prepared for
K*STAR
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by

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A copy of this report may be obtained from the K*STAR NSF EPSCoR, 207 Strong Hall, University of Kansas, Lawrence, Kansas 66045.

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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.* Assessment 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 1996 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 1996. Grant data are reported for fiscal year 1995. Current assessment revealed several important findings.

- The number of SEM faculty fell by three percent in academic year 1996 compared to 1995. The largest number decreases were seen at KSU.

- The number of women and minority SEM faculty continued to be above 1991 levels, but showed little change over 1995 levels.

- The number of professors and assistant professors was lower in 1996 than in 1995, which may have a negative impact upon research and grant productivity.

- The number of post doctoral positions increased by twelve percent from 1995 to 1996 and by 62 percent from 1991 to 1996.

- Faculty salaries continue to be lower than those paid at peer institutions.

- SEM graduate enrollment was two percent higher than 1995 levels and seven percent above 1991 levels. The number of engineering graduate students fell seven percent from 1995 to 1996. However, engineering enrollment in 1996 was 22 percent above the 1991 levels while science was only one percent above the 1991 levels.

- The number of women enrolled in SEM graduate programs increased in 1995 while minority enrollment remained the same.

- The number of graduate students receiving financial support in the form of teaching assistantships or research assistantships was lower than the previous year while graduate enrollment increased leading to a decline in the percent of graduate students receiving financial support.

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

- NSF dollars (excluding NSF EPSCoR) awarded to the state increase but only slightly (three percent) and actually declined (-0.2 percent) when adjusted for inflation.

- The number and dollars awarded by all funding sources has declined for the past two years (FY 1994 and FY 1995).

The 1996 data revealed declines in the number of professors, assistant professors, academic staff, directors and technical staff, 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. And, it appears that the hiring practices for faculty at Kansas State University and Wichita State University do not support an increase in faculty. Kansas continued to see a decline in the number of grants submitted and awarded in 1995. While the 1996 data does show improvement in graduate enrollment, it also shows declines in SEM personnel, particularly faculty and graduate teaching assistants. If the hiring practices were responsible for the declines seen in the 1995 infrastructure and still prevalent in the 1996 infrastructure, then past improvements in Kansas' competitive position may indeed be very fragile. The state must focus upon protecting gains made during the first three years of NSF EPSCoR 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 1996 for Science, Engineering and Math

Kansas State University

Faculty	624
Female	82
Minority	78
Average Faculty Salary	$47,645
SEM Personnel	1,856
Graduate Enrollment	1,398
Female	393
Minority	76
Percent Graduates Supported	77%
Ph.D. Degrees Awarded	110
to Women	19
to Minority	10
Masters Degrees Awarded	277
to Women	83
to Minority	15
NSF Grant Awards (1995)	$4,583,639
Total Grant Awards (1995)	$20,028,922
Grant Awards of EPSCoR Funded Faculty*	
Group I (1995)	$5,020,283 (22 awards)
Group II (1995)	$3,961,004 (17 awards)

The University of Kansas – Lawrence Campus only

Faculty	397
Female	65
Minority	49
Average Faculty Salary	$52,688
SEM Personnel	1,592
Graduate Enrollment	1,701
Female	649
Minority	104
Percent Graduates Supported	56%
Ph.D. Degrees Awarded	108
to Women	40
to Minority	6
Masters Degrees Awarded	280
to Women	93
to Minority	11
NSF Grant Awards (1995)	$9,015,750**
Total Grant Awards (1995)	$33,031,693**
Grant Awards of EPSCoR Funded Faculty*	
Group I (1995)	$2,421,004 (18 awards)
Group II (1995)	$2,460,474 (17 awards)

Wichita State University

Faculty	168
Female	34
Minority	38
Average Faculty Salary	$45,438
SEM Personnel	494
Graduate Enrollment	1,102
Female	520
Minority	49
Percent Graduates Supported	23%
Ph.D. Degrees Awarded	23
to Women	5
to Minority	3
Masters Degrees Awarded	312
to Women	158
to Minority	32
NSF Grant Awards (1995)	$1,118,988
Total Grant Awards (1995)	$3,183,356
Grant Awards of EPSCoR Funded Faculty*	
Group I (1995)	$103,686 (4 awards)
Group II (1995)	$570,176 (9 awards)

State Totals

Faculty	1,189
Female	181
Minority	165
Average Faculty Salary	NA
SEM Personnel	3,942
Graduate Enrollment	4,201
Female	1,562
Minority	229
Percent Graduates Supported	54%
Ph.D. Degrees Awarded	241
to Women	64
to Minority	19
Masters Degrees Awarded	869
to Women	334
to Minority	58
NSF Grant Awards (1995)	$14,718,377**
Total Grant Awards (1995)	$56,243,971**
Grant Awards of EPSCoR Funded Faculty*	
Group I (1995)	$7,544,973 (44 awards)
Group II (1995)	$6,991,654 (43 awards)

*Includes only those grants where faculty served as a principal investigator. Does not include NSF EPSCoR.
**Includes NSF EPSCoR. 1995 NSF EPSCoR = $3,056,400.

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

INTRODUCTION

In 1992, Kansas became a NSF EPSCoR state to improve its ability to compete for federal research and development (R&D) dollars. At that time, a plan was developed to assess progress in making Kansas more competitive for federal 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[1] (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 will continue to monitor growth in number of science, engineering, and math personnel, graduate students, degrees awarded, and grant activity. This report presents the sixth annual assessment of SEM research and infrastructure.

SCIENCE, ENGINEERING, AND MATH INFRASTRUCTURE

Personnel

SEM Faculty[2]. 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 1996, the state total was 1,189, a decrease of three percent (**Table 1**).

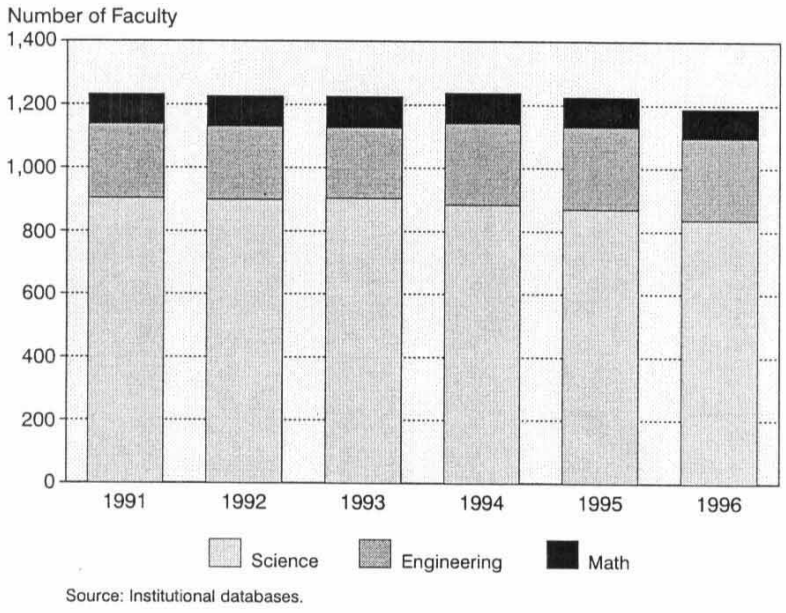
Table 1 shows that all three universities experienced declines in the number of SEM faculty from 1995 to 1996. KSU saw its SEM faculty decline by 3 percent, KU by 2 percent and WSU by 6 percent. Most of the decrease at KSU was in the Science section within the agricultural departments. Decreases in the Agricultural Experiment Station and the Cooperative Extension Service funding 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

[1]All data reported for the University of Kansas are for the Lawrence campus *only*. Medical Center data are not included.

[2]**Appendix A** lists all departments and academic units included in the database. Departments and academic units vary between institutions.

increase in the number of adjunct faculty from 1995 to 1996 (6 to 31, respectively).[3] A temporary hiring freeze imposed for budgetary purposes may account for the decline in faculty at KU starting in 1994. At WSU, fewer vacant faculty positions 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.

Figure 2 shows that the number of minority and women faculty members has grown since 1991. The total number of female SEM faculty for 1996 was 181, an increase of six faculty members from the 1995 level of 175 (**Table 2**). **Table 2** shows that the increase in female faculty at Kansas can be mostly attributed to the increase in female science faculty at KSU and that the total number of female faculty actually declined at both KU and WSU from 1995 to 1996. A slow but steady increase in female faculty has occurred since 1991 with the number of female faculty in 1996 at 181 compared to 163 in 1991, an increase of 18 females.

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 15 percent of the total SEM faculty (**Table 2**). In 1996, women comprised 13 percent of the total SEM faculty at KSU, 16 percent at KU, and 20 percent at WSU. The 181 women SEM faculty comprised 15 percent of the state's SEM faculty in 1996.

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[3] 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	1992	1993	1994	1995	1996	Percent Change 1995-96	Percent Change 1991-96
KSU								
Science	479	471	472	482	479	463	**-3%**	**-3%**
Engineering	115	111	106	128	130	129	**-1%**	**12%**
Math	29	31	33	32	32	32	**0%**	**10%**
Subtotal	*623*	*613*	*611*	*642*	*641*	*624*	*-3%*	*0%*
KU-Lawrence								
Science	286	295	300	296	283	273	**-4%**	**-5%**
Engineering	76	76	75	86	87	87	**0%**	**14%**
Math	37	38	40	38	36	37	**3%**	**0%**
Subtotal	*399*	*409*	*415*	*420*	*406*	*397*	*-2%*	*-1%*
WSU								
Science	138	132	130	105*	107	100	**-7%**	**-5%***
Engineering	44	46	45	45	46	45	**-2%**	**0%**
Math	27	26	25	25	25	23	**-8%**	**-8%**
Subtotal	*209*	*204*	*200*	*196*	*178*	*168*	*-6%*	*-4%*
STATE								
Science	903	898	902	883	869	836	**-4%**	**-7%**
Engineering	235	233	226	259	263	261	**-1%**	**11%**
Math	93	95	98	95	93	92	**-1%**	**-1%**
TOTAL	**1,231**	**1,226**	**1,226**	**1,237**	**1,225**	**1,189**	**-3%**	**-3%**

**Percent change for WSU 1994 to 1996; program changes in Science data starting 1994.*

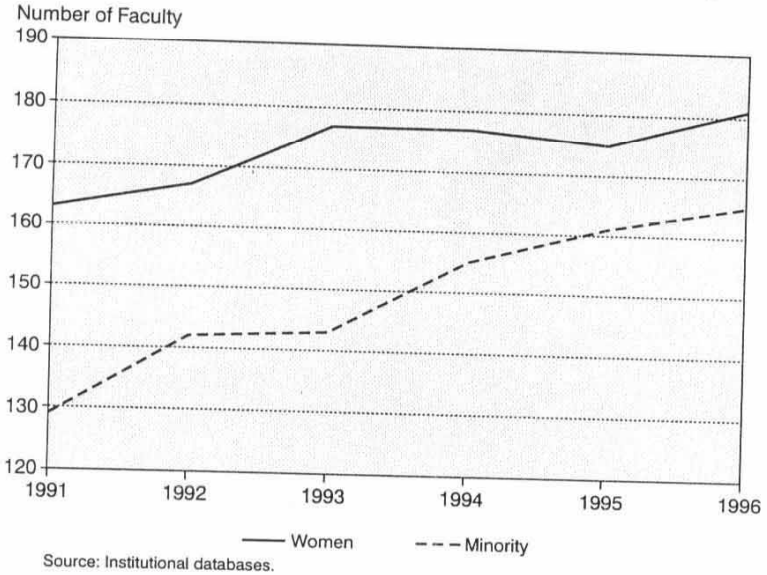
Source: Institutional databases.

Minority members of the SEM faculty made up 14 percent of the total SEM faculty in 1996 (**Table 3**).[4] The total number of minority faculty increased by four faculty members from 161 in 1995 to 165 in 1996. The total number of minority SEM faculty has grown by 36 faculty members from 129 in 1991 to 165 in 1996. From 1995 to 1996, 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 a decrease of one member at WSU.

[4] Minority faculty numbers in Kansas are relatively low. Therefore, small number changes translate into large percent changes for the state.

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 1996, the number of female and minority faculty have managed to increase during the same time period despite the recent declines in female faculty.

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



Source: Institutional databases.

SEM Personnel. [5] **Figure 3** shows a trend of the decline in the total number of SEM personnel starting in 1995. While SEM personnel declined by two percent from 1995 to 1996, **Table 4** shows increases in some areas: associated professors (1 percent), research associates and assistants (12 percent), post doctoral (12 percent), and student research assistants (1 percent). The increase in number of associate professors is tempered by a decrease in 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 1996 with the number of assistant professors declining by nine percent. Graduate teaching assistants experienced their first decline since data collection began in 1991.

[5] 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.

Table 2
NUMBER OF FEMALE FACULTY

	1991	1992	1993	1994	1995	1996	Percent Change 1995-96	Percent Change 1991-96
KSU								
Science	54	54	60	64	64	72	**13%**	**33%**
Engineering	4	4	5	6	8	9	*n.a.*	*n.a.*
Math	0	0	0	0	0	1	*n.a.*	*n.a.*
Total Female	**58**	**58**	**65**	**70**	**72**	**82**	**14%**	**41%**
Total Faculty	*623*	*613*	*611*	*642*	*641*	*624*	*-3%*	*0%*
% Female	**9%**	**9%**	**11%**	**11%**	**11%**	**13%**		
KU-Lawrence								
Science	45	53	57	60	58	56	**-3%**	**24%**
Engineering	2	2	4	5	6	5	*n.a.*	*n.a.*
Math	3	3	3	3	3	4	*n.a.*	*n.a.*
Total Female	**50**	**58**	**64**	**68**	**67**	**65**	**-3%**	**30%**
Total Faculty	*399*	*409*	*415*	*420*	*406*	*397*	*-2%*	*-1%*
% Female	**13%**	**14%**	**15%**	**16%**	**17%**	**16%**		
WSU								
Science	52	49	46	37*	33	30	**-9%**	**-19%***
Engineering	2	2	2	2	3	4	*n.a.*	*n.a.*
Math	1	0	0	0	0	0	*n.a.*	*n.a.*
Total Female	**55**	**51**	**48**	**49**	**47**	**34**	**-6%**	**-13%**
Total Faculty	*209*	*204*	*200*	*175*	*178*	*168*	*-6%*	*-4%*
% Female	**26%**	**25%**	**24%**	**28%**	**26%**	**20%**		
STATE								
Science	151	156	163	161	155	158	**2%**	**5%**
Engineering	8	8	11	13	17	18	**6%**	*n.a.*
Math	4	3	3	3	3	5	*n.a.*	*n.a.*
Total Female	**163**	**167**	**177**	**177**	**175**	**181**	**3%**	**11%**
Total Faculty	*1,231*	*1,226*	*1,226*	*1,237*	*1,225*	*1,189*	*-3%*	*-3%*
% Female	**15%**	**14%**	**14%**	**14%**	**14%**	**15%**		

**Percent change for WSU 1994 to 1996; 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.

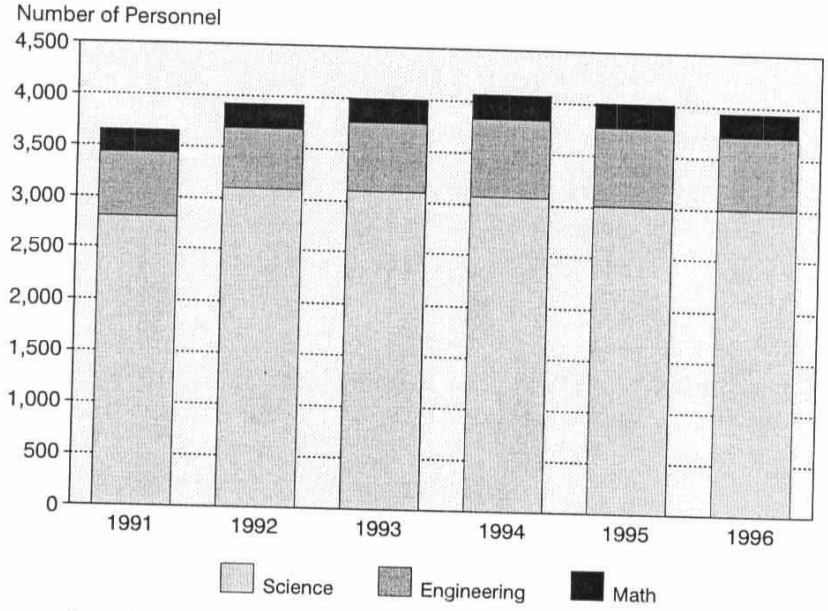
Table 3
NUMBER OF MINORITY FACULTY

	1991	1992	1993	1994	1995	1996	Percent Change 1995-96	Percent Change 1991-96
KSU								
Science	36	40	40	39	42	44	**5%**	**22%**
Engineering	16	16	14	22	26	27	**4%**	*n.a.*
Math	6	8	9	9	8	7	*n.a.*	*n.a.*
Total Minority	**58**	**64**	**63**	**70**	**76**	**78**	**3%**	**34%**
Total Faculty	*623*	*613*	*611*	*642*	*641*	*624*	*-3%*	*0%*
% Minority	**9%**	**10%**	**10%**	**11%**	**12%**	**13%**		
KU-Lawrence								
Science	24	25	24	27	24	27	**13%**	**13%**
Engineering	10	12	12	14	13	13	*n.a.*	*n.a.*
Math	5	6	9	9	9	9	*n.a.*	*n.a.*
Total Minority	**39**	**43**	**45**	**50**	**46**	**49**	**7%**	**26%**
Total Faculty	*399*	*409*	*415*	*420*	*406*	*397*	*-2%*	*-1%*
% Minority	**10%**	**11%**	**11%**	**12%**	**11%**	**12%**		
WSU								
Science	15	16	17	13*	15	13	*n.a.*	*n.a.*
Engineering	10	12	12	14	15	16	*n.a.*	*n.a.*
Math	7	7	6	8	9	9	*n.a.*	*n.a.*
Total Minority	**32**	**35**	**35**	**35**	**39**	**38**	**-3%**	**9%**
Total Faculty	*209*	*204*	*200*	*175*	*178*	*168*	*-6%*	*-4%*
% Minority	**15%**	**17%**	**18%**	**20%**	**22%**	**23%**		
STATE								
Science	75	81	81	79	81	84	**4%**	**12%**
Engineering	36	40	38	50	54	56	**4%**	**56%**
Math	18	21	24	26	26	25	**-4%**	**39%**
Total Minority	**129**	**142**	**143**	**155**	**161**	**165**	**2%**	**28%**
Total Faculty	*1,231*	*1,226*	*1,226*	*1,237*	*1,225*	*1,189*	*-3%*	*-3%*
% Minority	**10%**	**12%**	**12%**	**13%**	**13%**	**14%**		

**Percent change for WSU 1994 to 1996; 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.

Figure 3
Science, Engineering, and Math Personnel



Source: Institutional databases.

Since 1991, post doctoral personnel has experienced the greatest percentage growth with a 62 percent increase in numbers (**Table 4**). Academic staff, directors and technical staff experienced the next highest growth rate with a 26 percent increase. While the number of student research assistants increased by 20 percent from 1991 to 1996, the number of student research assistants in 1996 were less than the number in 1993. *This recent trend is of concern since these positions reflect the number of graduate students supported in research positions.* The number of assistant professors has declined by 14 percent since 1991. Overall, the total number of SEM personnel in 1996 was 3,942, which was an 8 percent increase from the 1991 number of 3,656. However, **Table 4** also shows that the total number of SEM personnel in 1996 was at its lowest level since 1992. See **Appendix B** for further information on the SEM personnel by year and institution.

Age of SEM Faculty. **Table 5** groups SEM faculty at the three Kansas institutions by ten-year age intervals. According to data provided by the institutions, 451 of the SEM faculty are over the age of 50, 351 are in the 40 – 49 age cohort, and 281 are under the age of 30. **Figure 4** illustrates a breakdown of SEM faculty in five-year age intervals. These data are illustrative of the institutional capacity in Kansas to compete for grant funding and show that the number of established faculty in Kansas are relatively small compared to other competing institutions.

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

	1991	1992	1993	1994	1995	1996	Percent Change 1995-96	Percent Change 1991-96
Professor	557	558	555	559	553	542	-2%	-3%
Associate Professor	334	322	326	327	351	354	1%	6%
Assistant Professor	340	346	345	351	321	293	-9%	-14%
Acad. Staff, Directors & Technical Staff	376	616	514	495	491	474	-3%	26%
Subtotal:	*1,607*	*1,842*	*1,740*	*1,732*	*1,716*	*1,663*	*-3%*	*3%*
Research Associates & Assistants	341	352	344	310	293	328	12%	-4%
Post Doctoral	45	58	65	52	65	73	12%	62%
Graduate Teaching Assistants	846	789	868	911	970	900	-7%	6%
Student Research Assistants	817	885	985	1,065	970	978	1%	20%
Subtotal:	*2,049*	*2,084*	*2,262*	*2,338*	*2,298*	*2,279*	*-1%*	*11%*
TOTAL	**3,656**	**3,926**	**4,002**	**4,070**	**4,014**	**3,942**	**-2%**	**8%**

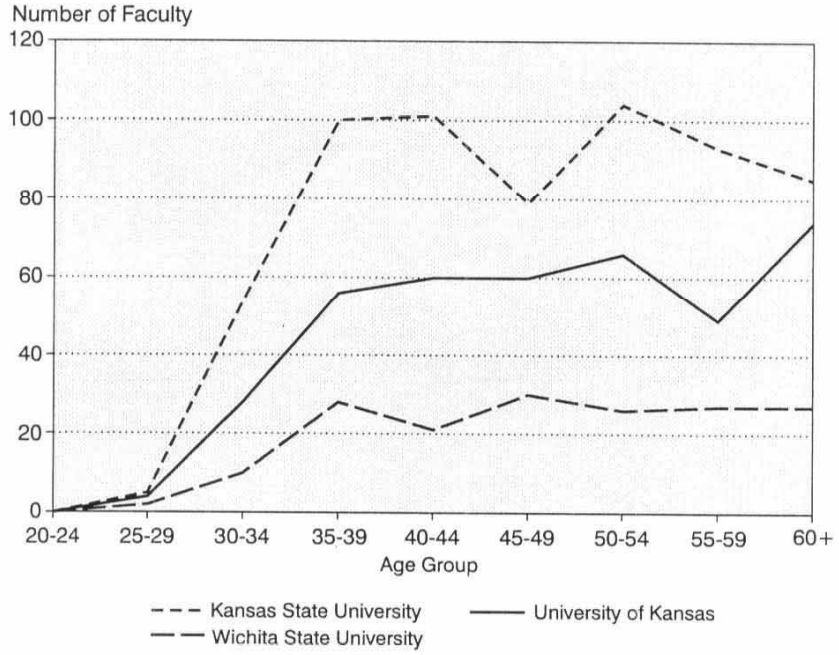
Source: Institutional databases.

Table 5
SEM FACULTY BY AGE: AY 1996

	Age Groups					
	20-29	**30-39**	**40-49**	**50-59**	**60+**	**Total**
KSU						
Science	3	106	136	153	63	461
Engineering	2	38	35	33	20	128
Math	0	10	9	11	2	32
Total	**5**	**154**	**180**	**197**	**85**	**621**
% Total	*1%*	*25%*	*29%*	*32%*	*14%*	
KU-Lawrence						
Science	1	58	85	82	47	273
Engineering	2	18	27	23	17	87
Math	1	8	8	10	10	37
Total	**4**	**84**	**120**	**115**	**74**	**397**
% Total	*1%*	*21%*	*30%*	*29%*	*19%*	
WSU						
Science	1	16	29	37	19	102
Engineering	1	18	12	10	5	46
Math	0	4	10	6	3	23
Total	**2**	**38**	**51**	**53**	**27**	**171**
% Total	*1%*	*20%*	*27%*	*28%*	*14%*	
STATE						
Science	5	180	250	272	129	836
Engineering	5	74	74	66	42	261
Math	1	22	27	27	15	92
Total	**11**	**276**	**351**	**365**	**186**	**1,189**
% Total	*1%*	*23%*	*29%*	*30%*	*15%*	

Source: Institutional databases.

Figure 4[6]
SEM Faculty by Age, AY 1996



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 6**).[7] In comparison to last year's data[8], KU salaries increased slightly from 89 percent to 90 percent of salaries at peer institutions. KSU faculty salaries decreased from 91.5 percent for FY 1995 to 86 percent for FY 1996. WSU salaries increased from 88 percent to 90 percent of salaries at peer institutions.

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[6] Please refer to **Appendix A** for a list of all departments and academic units included in the database. Departments and academic units vary between institutions.

[7] 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.

[8] Stella, M. Elizabeth, *Fifth Assessment of the Science, Engineering, and Math Infrastructure at Three Universities in Kansas,* IPPBR, the University of Kansas, Report No. 236, October, 1996, Table 5.

Table 6
COMPARISON OF PEER INSTITUTIONS' AVERAGE FACULTY SALARY
FY 1996

	KSU	KU	WSU
Weighted average *	$47,645	$52,688	$45,438
Weighted average of peer institutions	$55,654	$58,702	$50,320
Kansas institutions as % of peer institutions	86%	90%	90%

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

Source: Institutional databases.

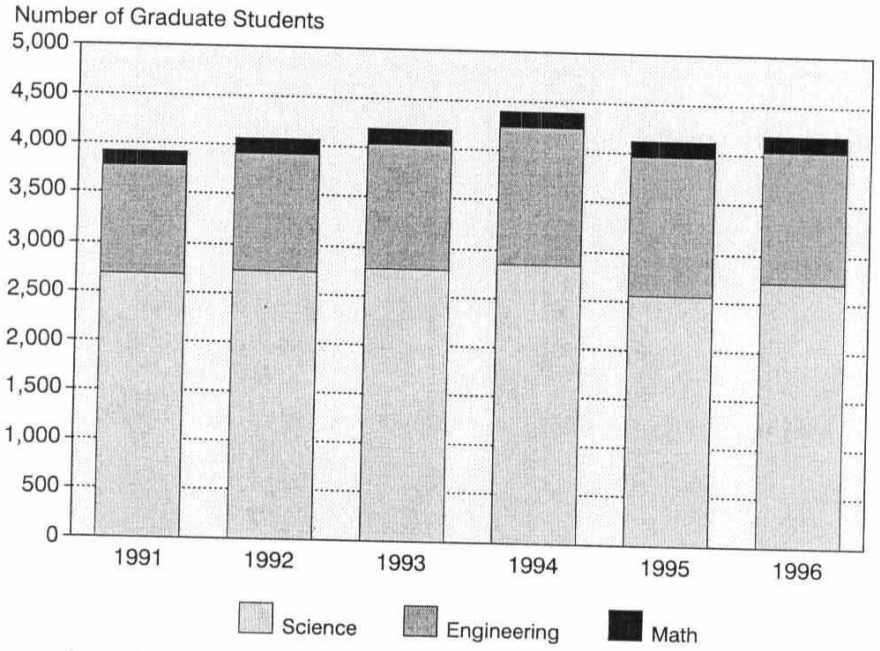
Graduate Enrollment

Figure 5 shows that graduate enrollment in science, engineering and math increased from 1995 to 1996. Graduate SEM enrollment in 1996 was 4,201, a two percent increase from 4,125 in 1995 (**Table 7**). Graduate enrollment increases in science and math offset the 6 percent decrease in engineering from 1995 to 1996.

Compared to 1991 (**Table 7**), enrollment in 1996 was up with strong increases in engineering (22 percent). However, engineering graduate enrollment figures for 1996 are down from both the 1995 and 1994 figures. The overall increase in engineering was due to a 39 percent increase at KSU (see **Appendix C**). Enrollment in 1996 showed a six percent decrease over 1995 enrollment in engineering, while enrollment in the sciences and math were up six percent and two percent, respectively (**Table 7**).

Figure 5

Science, Engineering, and Math Graduate Student Enrollment



Source: Institutional databases.

Table 7
SEM GRADUATE ENROLLMENT

STATE:	1991	1992	1993	1994	1995	1996	% Change 1995-96	% Change 1991-96
Science	2,683	2,732	2,779	2,860	2,559	2,710	6%	1%
Engineering	1,089	1,179	1,251	1,378	1,407	1,327	-6%	22%
Math	146	158	165	162	159	164	2%	12%
TOTAL	**3,918**	**4,069**	**4,195**	**4,400**	**4,125**	**4,201**	**2%**	**7%**

Source: Institutional databases.

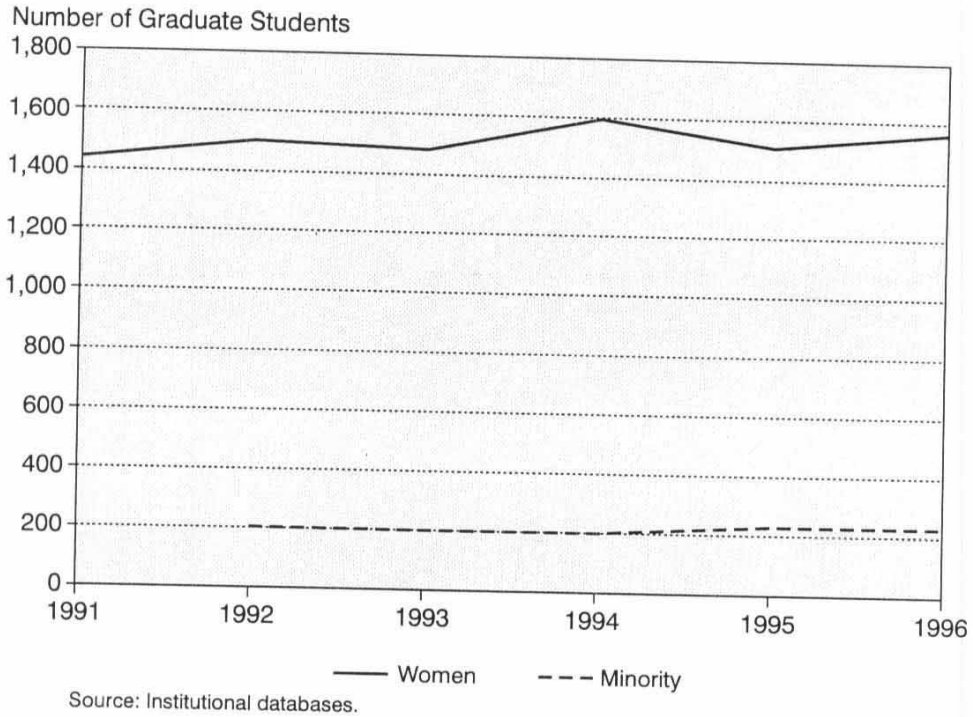
Figure 6 shows no little change in the number of women and minority graduate students enrolled in 1996. **Table 8** presents the number of SEM women graduate students enrolled. A comparison on 1991 to 1996 female graduate students enrolled shows that engineering saw a dramatic increase in females with a 42 percent increase (or 54 more females). Math enrollment for females was relatively unchanged from 40 in 1991 to 45 in 1996. Science enrollment was up five percent from 1,271 in 1991 to 1,334 in 1996. **Figure 6** shows that female graduate enrollment was at its highest in 1994 with 1,358 females enrolled. Total SEM graduate enrollment increased seven percent from 1991 to 1996 while female enrollment increased eight percent during the same time period (**Table 8**). As a percent of total SEM graduate enrollment, female enrollment has held fairly steady at 37 percent.

Table 9 presents similar data for minority graduate enrollment. The number of minority graduate students enrolled in 1996 in the sciences decreased over 1992 levels, while the number enrolled in engineering increased substantially. In 1996, minorities comprised 11 percent of the total SEM graduate enrollment. Minority SEM graduate enrollment outpaced total SEM graduate enrollment from 1991 to 1996 with a 13 percent increase for minority compared to seven percent for total. Compared to 1995, 1996 minority enrollment remained the same with losses in engineering offset by gains in the sciences and math. See **Appendix C** for further information on SEM graduate student enrollment by year and by institution.

Funding for graduate students declined slightly in 1996 (**Table 10**). While enrollment increased from 1995 to 1996, the number supported decreased. This resulted in an overall decrease in the percent of graduate students receiving financial support from 56 percent in 1995 to 54 percent in 1996. KSU supported 77 percent of its SEM graduate students in 1996 compared to 56 percent for KU and 23 percent for WSU. While KSU enrollment decreased the number funded increased. KU's enrollment did not change from 1995 to 1996 while the number supported declined. WSU supported fewer students while enrollment increased.

Figure 6

Science, Engineering, and Math
Women and Minority Graduate Enrollment



Source: Institutional databases.

Table 8
SEM Women Graduate Enrollment

STATE:	1991	1992	1993	1994	1995	1996	% Change 1995-96	% Change 1991-96
Science	1,271	1,315	1,270	1,358	1,268	1,334	**5%**	**5%**
Engineering	129	137	157	182	193	183	**-5%**	**42%**
Math	40	49	55	55	48	45	**-6%**	**13%**
Total Women	**1,440**	**1,501**	**1,482**	**1,595**	**1,509**	**1,562**	**4%**	**8%**
Total Enroll.	*3,918*	*4,069*	*4,195*	*4,400*	*4,125*	*4,201*	*2%*	*7%*
% Women	**37%**	**37%**	**35%**	**36%**	**37%**	**37%**		

Source: Institutional databases.

Table 9
SEM Minority Graduate Enrollment

STATE*:	1992	1993	1994	1995	1996	% Change 1995-96	% Change 1992-96*
Science	145	132	135	133	137	**3%**	**-6%**
Engineering	50	59	56	89	84	**-6%**	**68%**
Math	7	8	8	7	8	*n.a.*	*n.a.*
Total Minority	**202**	**199**	**199**	**229**	**229**	**0%**	**13%**
Total Enroll.	*4,069*	*4,195*	*4,400*	*4,125*	*4,201*	*2%*	*7%*
% Minority	**8%**	**8%**	**8%**	**9%**	**11%**		

**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).

Source: Institutional databases.

Table 10
POST GRADUATES* RECEIVING FINANCIAL SUPPORT COMPARED TO GRADUATE ENROLLMENT

	1991	1992	1993	1994	1995	1996
KSU						
Supported	841	809	961	1,057	1,057	1,070
Enrolled	1,216	1,282	1,361	1,442	1,474	1,398
% Supported	**69%**	**63%**	**71%**	**73%**	**72%**	**77%**
KU						
Supported	1,003	1,103	1,090	1,039	978	956
Enrolled	1,702	1,819	1,817	1,880	1,701	1,701
% Supported	**59%**	**61%**	**60%**	**55%**	**57%**	**57%**
WSU						
Supported	205	172	211	242	263	253
Enrolled	1,000	968	1,017	1,078	950	1,102
% Supported	**21%**	**18%**	**21%**	**22%**	**28%**	**23%**
State						
Supported	2,049	2,084	2,262	2,338	2,298	2,279
Enrolled	3,918	4,069	4,195	4,400	4,125	4,201
% Supported	**52%**	**51%**	**54%**	**53%**	**56%**	**54%**

**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.*

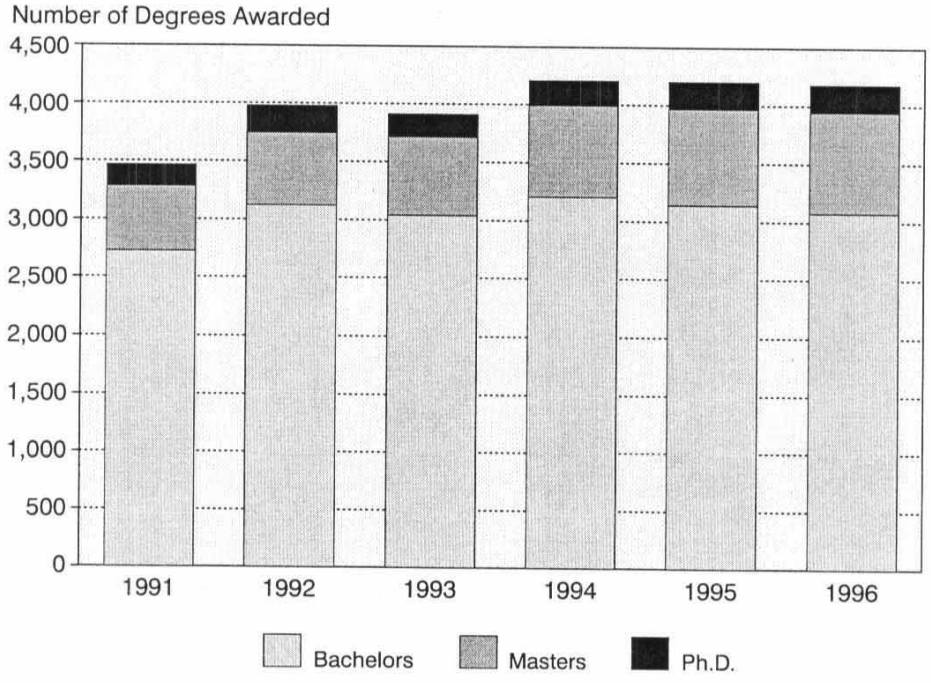
Source: Institutional databases.

Degrees Awarded

Figure 7 presents the number of science, engineering and math degrees awarded from 1991 to 1996 and shows that the number of degrees awarded from 1994 to 1996 held fairly steady. From 1991 to 1996, the number of Ph.Ds awarded increased 22 percent, the number of masters' degrees increased 55 percent, and the number of bachelor degrees increased 13 percent (**Table 11**). The number of Ph.D. and Master degrees awarded in 1996 increased over 1995 levels while number of Bachelor degrees awarded decreased slightly. **Table 12** shows that, while WSU increased the number of Ph.D. degrees awarded dramatically since 1991, KSU and KU awarded the majority of Ph.D. degrees in the state.

Figure 8 shows the slow but steady increase in number of degrees awarded to women and minorities from 1991 to 1996. While the number of Ph.D. degrees awarded to women remained relatively small, the number of women who earned Ph.D. degrees in 1996 increased 60 percent over 1991 levels (**Table 11**). The number of minorities earning Ph.D. degrees in 1996 declined 27 percent from 1995. See **Appendix D** for further information regarding degrees awarded at the three universities.

Figure 7
Science, Engineering, and Math Degrees Awarded



Source: Institutional databases.

Table 11
SEM Degrees Awarded: KSU, KU, and WSU

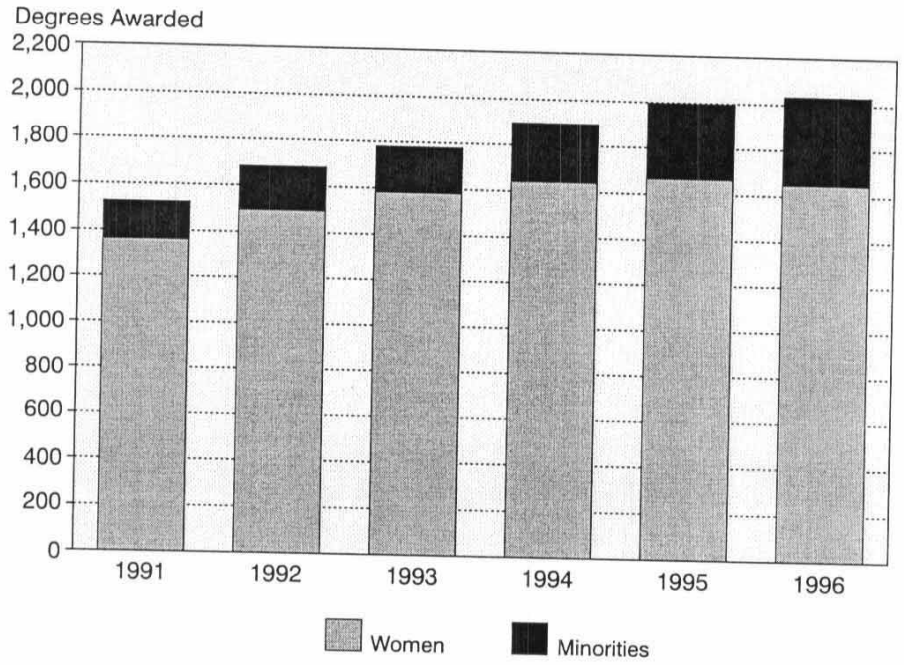
STATE:	1991	1992	1993	1994	1995	1996	% Change 1995-96	% Change 1991-96
Total Population								
Ph.D.	182	236	197	218	238	241	**1%**	**32%**
Master	559	621	675	787	828	869	**5%**	**55%**
Bachelor	2,723	3,123	3,039	3,205	3,140	3,075	**-2%**	**13%**
Subtotal	*3,464*	*3,980*	*3,911*	*4,210*	*4,206*	*4,185*	*-0%*	*21%*
Women Only								
Ph.D.	40	60	61	57	56	64	**14%**	**60%**
Master	210	202	285	327	348	334	**-4%**	**59%**
Bachelor	1,111	1,233	1,235	1,257	1,260	1,249	**-1%**	**12%**
Subtotal	*1,361*	*1,495*	*1,581*	*1,641*	*1,664*	*1,647*	*-1%*	*21%*
% Women	**39%**	**38%**	**40%**	**39%**	**40%**	**39%**		
Minorities Only*								
Ph.D.	1	2	11	9	26	19	**-27%**	*
Master	16	15	34	29	37	58	**57%**	
Bachelor	147	172	154	218	269	311	**16%**	
Subtotal	*164*	*189*	*199*	*256*	*332*	*388*	*17%*	
% Minorities	**5%**	**5%**	**5%**	**6%**	**8%**	**9%**		

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

Source: Institutional databases.

Figure 8

Degrees Awarded to Women and Minorities



Source: Institutional databases.

Table 12
SEM PH.D. DEGREES AWARDED BY INSTITUTION

STATE:	1991	1992	1993	1994	1995	1996	% Change 1995-96	% Change 1991-96
Total Population								
KSU	80	111	87	97	105	110	5%	38%
KU	93	112	91	97	113	108	-5%	16%
WSU	9	13	19	24	20	23	13%	*n.a.*
Subtotal	*182*	*236*	*197*	*218*	*238*	*241*	*1%*	*32%*
Women Only								
KSU	15	23	25	14	25	19	-32%	27%
KU	23	33	32	37	26	40	35%	74%
WSU	2	4	4	6	5	5	*n.a.*	*n.a.*
Subtotal	*40*	*60*	*61*	*57*	*56*	*64*	*13%*	*60%*
% Women	**22%**	**25%**	**31%**	**26%**	**24%**	**27%**		
Minorities Only*								
KSU	*	*	*	*	12	10	*n.a.*	*n.a.*
KU	1	2	7	3	9	6	*n.a.*	*n.a.*
WSU	0	0	4	6	5	3	*n.a.*	*n.a.*
Subtotal	*1*	*2*	*11*	*9*	*26*	*19*	*-37%*	*
% Minorities	**1%**	**1%**	**6%**	**4%**	**11%**	**8%**		

**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:

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).[9]
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.

[9] 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.

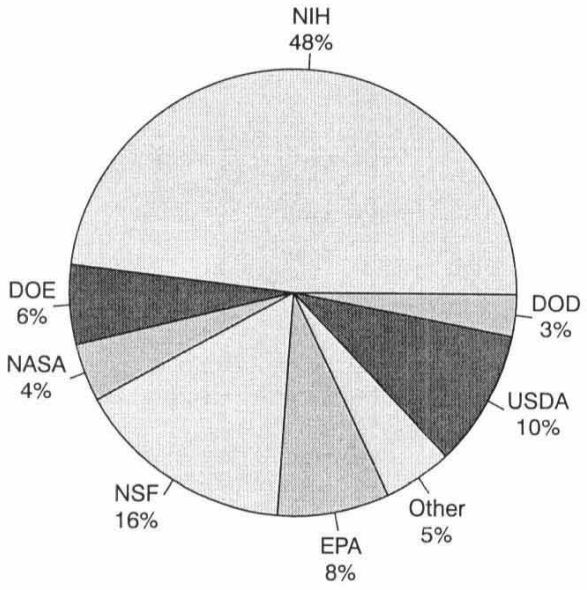
4. Grants submitted in one fiscal year, not funded, then resubmitted in another fiscal year were counted as a new submission.
5. Competitive renewals or continuations were counted as new grant submissions.
6. Grants pending after two years were considered "rejected" or not funded.

NSF Submissions and Awards

Kansas. In FY 1995, 16 percent of **all** federal R&D academic obligations in Kansas came from NSF (**Figure 9**). **Figure 10** shows that the number of grants submitted to NSF by SEM faculty continued to rise in FY 1995 and the number awarded also increased. The number awarded in FY 1994 was 95 while the number awarded in FY 1995 was 106, a 12 percent increase (**Table 13**). FY 1995 award number was an increase of 63 percent over FY 1991 levels.

Figure 11 shows that the total dollars requested increased to an all time high of $70,793,503. However, total dollars awarded increased only three percent from $11,358,257 in FY 1994 to $11,661,977 in FY 1995 (**Table 13**).[10] When adjusted for inflation, the dollars awarded from FY 1994 to FY 1995 actually saw a slight decline of 0.2 percent. Dollars awarded in 1995 increased by 66% percent over FY 1991 levels or 48 percent when adjusted for inflation.[11] See **Appendix E** for complete NSF grant data by year and by institution.

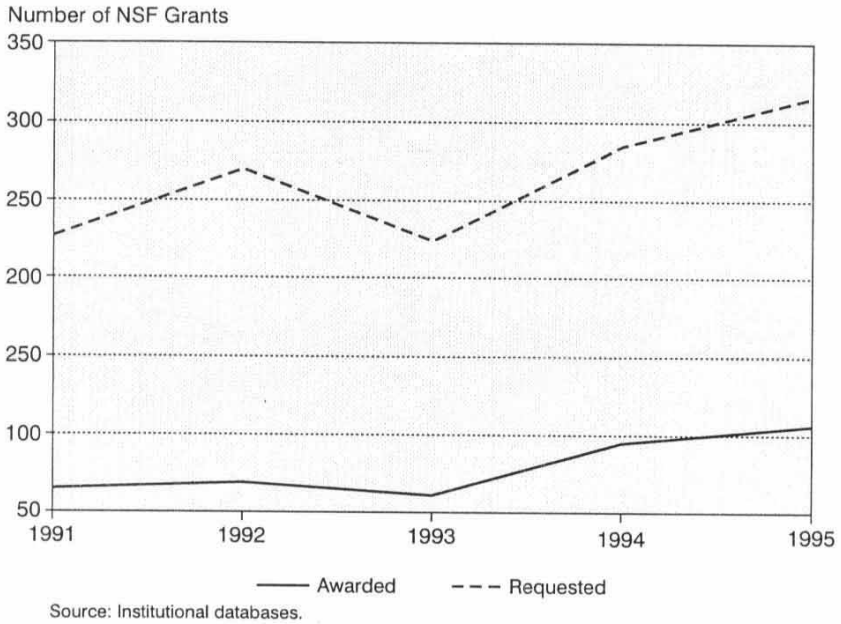
Figure 9
Federal R&D Academic Obligations in Kansas, by Agency
FY 1995 Total $63,877,000



Source: Quantum Research Corporation.

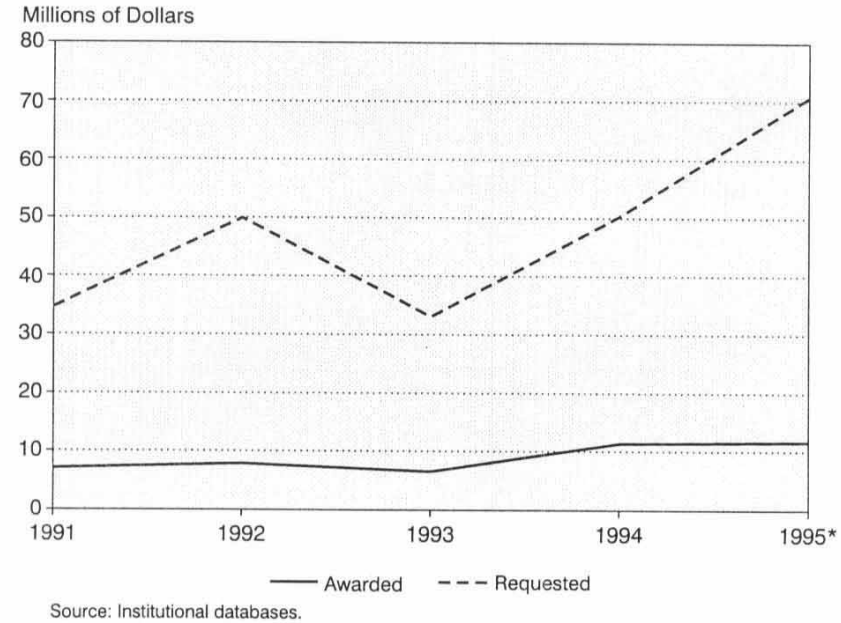
[10] NSF EPSCoR funding is not included in the totals reported in **Table 13** for FY 1993 and FY 1995.
[11] Dollars awarded are adjusted for inflation to 1995 dollars.

Figure 10
Number of Science, Engineering, and Math NSF Grants



Source: Institutional databases.

Figure 11
Science, Engineering, and Math NSF Grant Dollars



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

Table 13
NSF GRANT ACTIVITY: FY 1991 – FY 1995

FY	Total Awarded No.	Total Awarded Dollars	Adjusted for Inflation** (in 1995 dollars)	Total Requested No.	Total Requested Dollars
1991	65	$7,045,285	($7,883,270)	227	$34,633,129
1992	69	$7,820,123	($8,494,560)	270	$49,918,486
1993*	61	$6,511,766	($6,867,773)	224	$33,051,331
1994	95	$11,358,257	($11,680,151)	285	$50,310,712
1995*	106	$11,661,977	($11,661,977)	316	$70,793,503

% CHANGE:

FY	Total Awarded No.	Total Awarded Dollars	Adjusted for Inflation (in 1995 dollars)	Total Requested No.	Total Requested Dollars
94-95*	12%	3%	(-0.2%)	11%	41%
91-94	46%	61%	(48%)	26%	45%
91-95*	63%	66%	(48%)	39%	104%

NSF EPSCoR **not included. NSF EPSCoR 1993=$4,400,000. NSF EPSCoR 1995=$3,056,400.*
***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, and cpi95=152.4.*

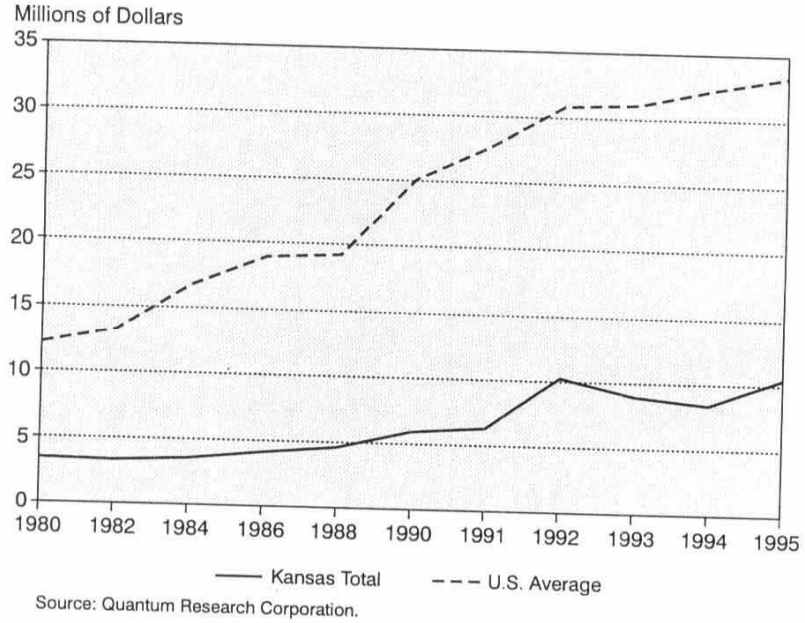
Source: Institutional databases and Bureau of Labor Statistics, Consumer Price Index-All Urban Consumers, Series ID CUUR0000SA0, Base Period: 1982-84=100.

Nation. While NSF funding trends could be considered encouraging, Kansas still has not reached competitive levels. **Figure 12** shows NSF funding awarded to academic institutions in Kansas falls well below the US average for NSF R&D academic obligations. The US average was approximately $33 million in FY 1995 compared to a little over $10 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 13** shows that Kansas was well below the U.S. average in dollars awarded per 1000 population. The increase in funding for 1992 and 1995 can be attributed to the NSF EPSCoR grants to Kansas.

Total Grants Submitted and Awarded

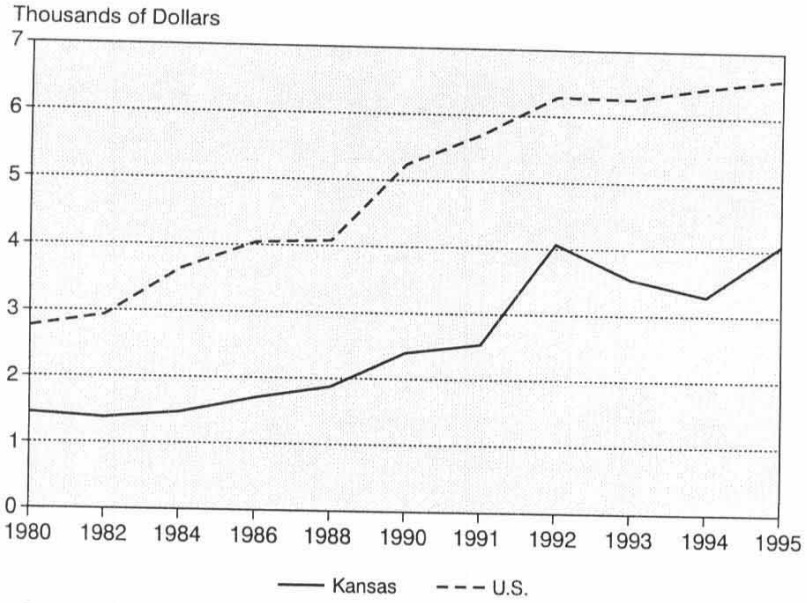
Kansas. The number of proposals submitted (total requested) by SEM faculty to **all** agencies and funding sources rose steadily from FY 1991 to FY 1994 and then declined in FY 1995 (**Figure 14**). Not surprisingly, the total grant dollars requested and awarded also declined in FY 1995 (**Figure 15**).

Figure 12
NSF R&D Academic Obligations, FY 1980 - FY 1995



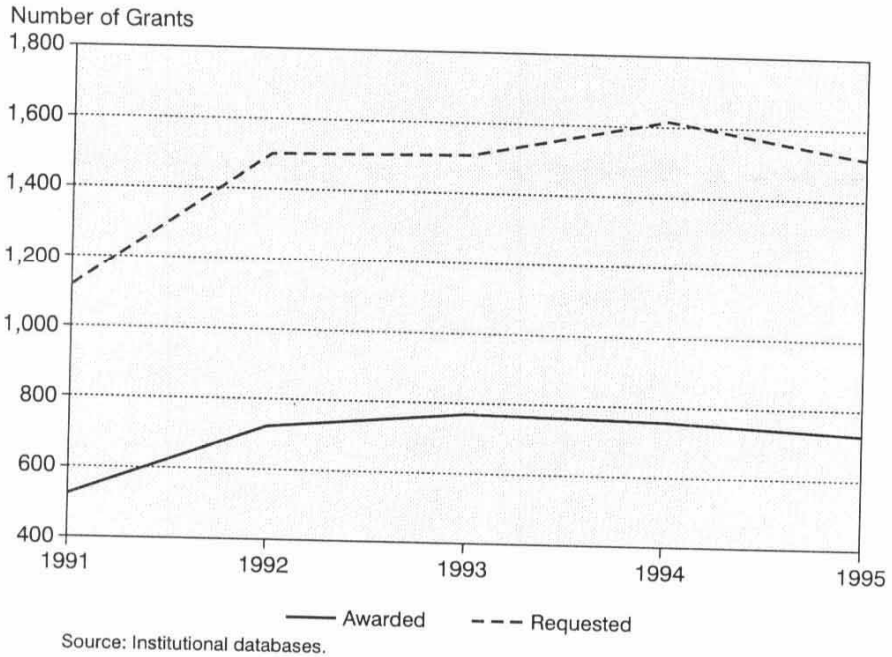
Source: Quantum Research Corporation.

Figure 13
Total NSF R&D Academic Obligations
Per 1,000 Population, FY 1980 - FY 1995



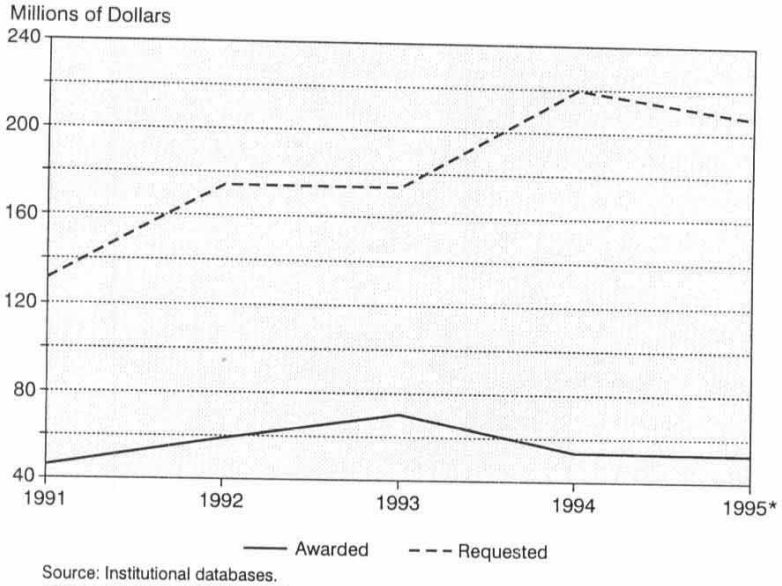
Source: Quantum Research Corporation.

Figure 14
Number of Science, Engineering, and Math Grants: All Agencies



Source: Institutional databases.

Figure 15
Science, Engineering, and Math Total Grant Dollars Awarded: All Agencies



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

Table 14 presents the total number of grants awarded to Kansas SEM faculty. The total number of grants awarded decreased four percent from 757 in FY 1994 to 729 in FY 1995. Dollars awarded in FY 1995 decreased one percent over FY 1994 levels. However, the number of grants awarded in FY 1995 increased 39 percent over FY 1991 and dollars awarded increased 15 percent or three percent when adjusted for inflation.[12] **Appendix F** presents detailed grant information by year and by institution.

Table 14
TOTAL GRANT ACTIVITY

	Total Awarded		Adjusted for Inflation**	Total Requested	
FY	No.	Dollars	(in 1995 dollars)	No.	Dollars
1991	524	$46,164,830	($51,655,801)	1,115	$131,315,876
1992	722	$58,824,989	($63,898,277)	1,500	$173,912,328
1993*	769	$65,949,700	($69,555,255)	1,509	$169,375,113
1994	757	$53,538,499	($55,055,784)	1,616	$219,719,025
1995*	729	$53,187,571	($53,187,571)	1,516	$207,488,252

% CHANGE:

	Total Awarded			Total Requested	
FY	No.	Dollars	(Adjusted for Inflation)	No.	Dollars
94-95*	-4%	-1%	(-3%)	-6%	-6%
91-94	44%	16%	(7%)	45%	67%
91-95*	39%	15%	(3%)	36%	58%

NSF EPSCoR **not included. NSF EPSCoR 1993=$4,400,000. NSF EPSCoR 1995=$3,056,400.*
***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, and cpi95=152.4.*

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

Nation. **Table 15** shows Kansas academic institutions received more federal dollars in FY 1995 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 16**). **Figure 17** 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.

[12] Dollars awarded are adjusted for inflation in 1995 dollars.

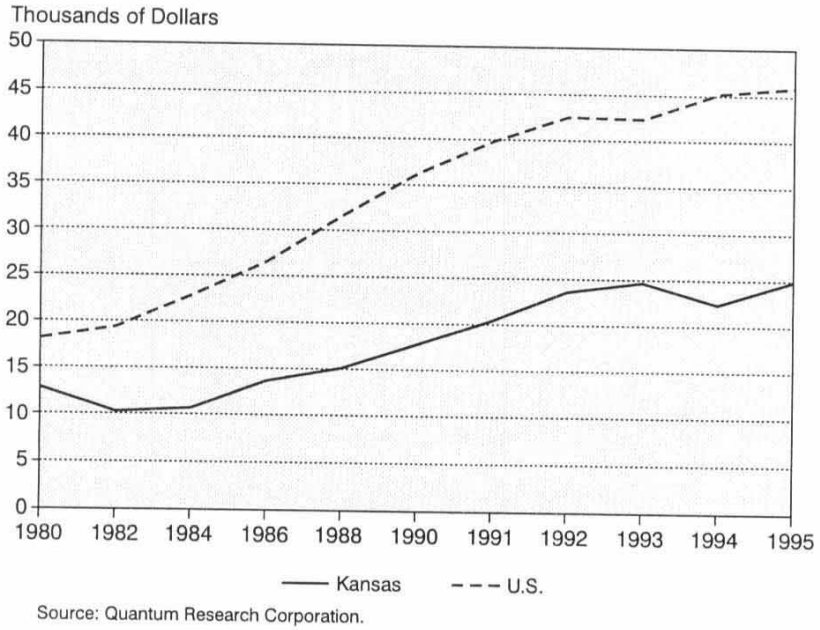
Table 15
FEDERAL RESEARCH AND DEVELOPMENT ACADEMIC OBLIGATIONS BY STATE

State	FY 1990 (millions $)	FY 1995 (millions $)	$ per capita FY 1990	$ per capita FY 1995	$ per capita % Change
Colorado	$ 169	$ 240	$ 51	$ 64	25%
Missouri	170	239	33	45	36
Iowa	107	138	38	49	29
Kansas*	**44**	**64**	**18**	**25**	**39**
Oklahoma	36	51	11	16	45
Nebraska	29	45	18	27	50
U.S. Total*	$9,008	$12,068	$ 36	$ 46	28%

*1995 Kansas Population (in thousands) = 2,565. 1995 U.S. Population (in thousands) = 262,890.

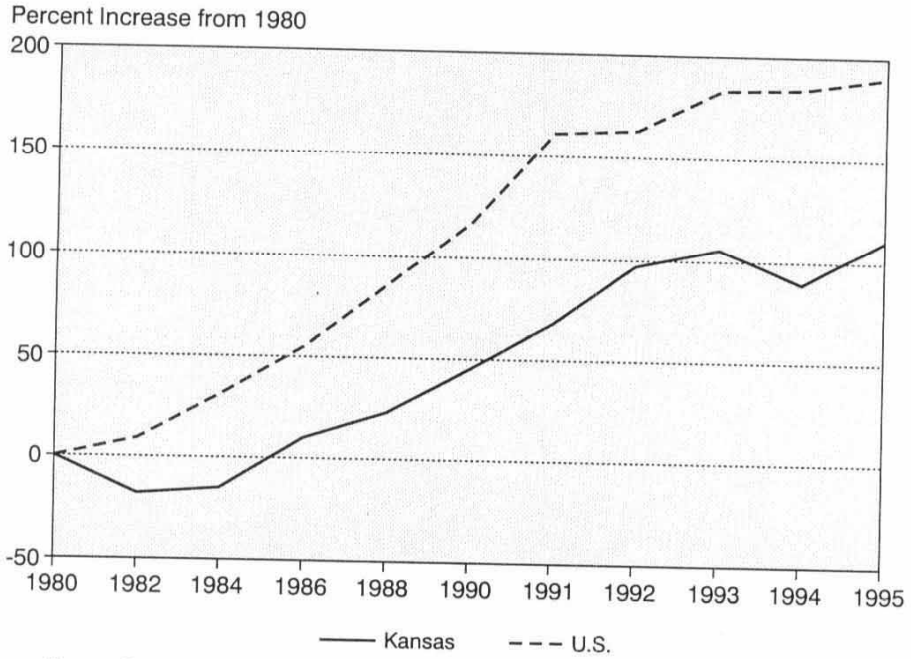
Source: National Science Foundation, The Survey of Federal Support to Universities, Colleges, and Selected Nonprofit Institutions and the U.S. Bureau of the Census, "Statistical Abstract of the United States: 1996."

Figure 16
Total Federal R&D Academic Obligations Per 1,000 Population, FY 1980 - FY 1995



Source: Quantum Research Corporation.

Figure 17
Percent Increase in Federal R&D Academic Obligations, FY 1980 - FY 1995



Source: Quantum Research Corporation.

Table 16 presents the R&D expenditures at universities in neighboring states in FY 1995. Kansas's institutions ranked lower than most neighboring institutions, several of which were also peer institutions. For example, KSU ranked much lower than its peer institutions Iowa State University and Colorado State University. KU also ranked lower than the University of Colorado, University of Iowa and University of Oklahoma, its neighboring peer institutions.

Table 16
R&D EXPENDITURES IN SCIENCE AND ENGINEERING AT UNIVERSITIES BY SOURCE OF FUNDS, FY 1995 (Dollars in Thousands)

Neighboring State Institution	Total* (rank)	$ Federal Gov.	State & Local Gov.
U. of Colorado	$249,695 (18)	$169,674	$4,207
U. of Iowa	164,893 (39)	103,115	4,946
Iowa State U.	154,932 (43)	58,766	41,989
U. of Missouri	122,870 (61)	32,420	15,018
Colorado State U.	122,172 (64)	75,216	17,203
U. of Nebraska	107,721 (70)	36,897	34,282
U. of Oklahoma	102,337 (76)	37,112	11,273
U. of Kansas	**100,702 (77)**	**42,209**	**8,045**
Oklahoma State U.	75,906 (99)	18,951	7,743
Kansas State U.	**71,103 (105)**	**25,266**	**28,794****

Wichita State U. was not included in the listing of the top 200 institutions. WSU Total = $9,691.

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

***This includes more than $20 million in state appropriations for the Agricultural and Engineering Experimental Stations.*

Source: National Science Foundation, Academic Science and Engineering: R&D Expenditures, Fiscal Year 1995, Detailed Statistical Tables, Table B-35, NSF-96-308 (Arlington, VA, 1996).

EPSCoR Faculty Grant Activity

The first three-year NSF EPSCoR grant (Phase 1) 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 will be referred to as Group I; the faculty funded by the 1995 renewal will be referred to as Group II.[13] Grant activity for Group I has been tracked since FY 1992 and will continue to be collected for two years to track their performance. Similar analysis will occur 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.

[13] See **Appendix G** for a complete listing of faculty in Group I and Group II.

Table 17 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. Number of proposals submitted has grown steadily and the percentage awarded has been very good for Group I. However, for FY 1995, the number of grants awarded and the dollars awarded were lower than the previous year. The change in dollars awarded from increased 60 percent from approximately $4.7 million in 1992 to $7.5 million in 1995. However, when adjusted for inflation, the dollars awarded to this group from 1992 to 1995 grew 47 percent.

The same data for Group II are presented in **Table 18**. In FY 1994, before the second group was funded by NSF EPSCoR Phase II, this group submitted 162 proposals and 30 percent were funded for approximately $5.6 million. The same group submitted 214 proposals in FY 1995 and 63 had been funded at almost $6.7 million. It is anticipated that it will take until FY 1996 before the effects of EPSCoR funding for the first award faculty group will start to show and several years beyond that to see the effects on the second group.

Table 17
TOTAL GRANT ACTIVITY OF EPSCOR FUNDED FACULTY: GROUP I

	FY 1992	FY 1993	FY 1994	FY 1995
Proposals Submitted*	160	167	184	190
Grants Awarded	61	78	76	65
Percent Awarded	38%	47%	41%	34%
Dollars Awarded	$4.721m	$5.926m	$9.041m	$7.545m
Adjusted for Inflation (to 1995 dollars)**	($5.128m)	($6.250m)	($9.297m)	($7.545m)
% Change Dollars Awarded: 1992 to 1995	60%			
Adjusted for Inflation	(47%)			

Includes only those grants where faculty served as principal investigator. Does **not include NSF 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, and cpi95=152.4.*

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

Table 18
TOTAL GRANT ACTIVITY OF EPSCoR FUNDED FACULTY: GROUP II

	FY 1994	FY 1995
Proposals Submitted*	162	214
Grants Awarded	49	63
Percent Awarded	30%	29%
Dollars Awarded	$5,528,817	$6,991,654

Includes only those grants where faculty served as principal investigator. Does **not include NSF EPSCoR.*

Source: Institutional databases.

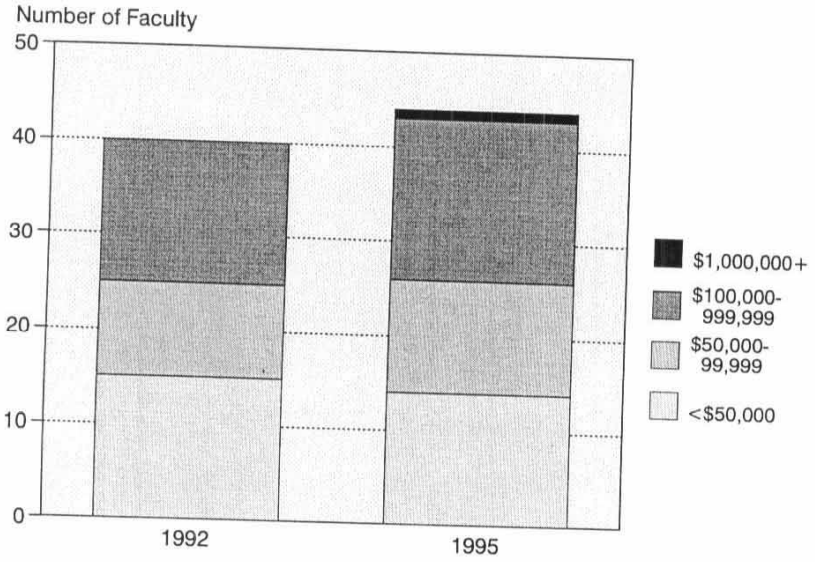
Figure 18 shows how faculty funded by the first EPSCoR grant increased the total dollars awarded to them. In FY 1992, the first year of funding, 15 EPSCoR funded faculty were awarded grants totaling less than $50,000, 10 were awarded between $50,000 and $99,999, and 15 were awarded grants totaling in the $100,000 to $999,999 (**Table 19**). In FY 1995, funding for Group I increased in the higher ranges with one grant awarded for over $1 million.

Table 19 presents the distribution of total dollars awarded to Group I by institution. The number of awards have remained the same or increased for all three institutions except for KU, which experienced a decline in the number of awards under $100,000.

Table 20 begins to track the distribution of dollars awarded to Group II in FY 1994, before NSF EPSCoR II was funded, and in FY 1995, the first year that Group II received EPSCoR funds.[14] (Data reported in **Tables 19** and **20** do not include NSF EPSCoR funds.) Group II began with 16 of the 31 faculty funded accumulating between $100,000 and $999,999 in FY 1994. For FY 1995, 19 of the 43 awards to faculty fell in the $100,000 to $999,999 range.

[14] Group II does include some faculty whom are also part of Group I funding.

Figure 18
Change in Distribution of Total Dollars Awarded to Group I:
Number of EPSCoR Faculty Within Each Funding Range



Source: Institutional databases.

Table 19
EPSCoR Funded Faculty and Distribution of Dollars Awarded: Group I

Dollars Awarded:	Number of EPSCoR Faculty within Each Funding Range* KSU 1992	KSU 1995	KU** 1992	KU** 1995	WSU 1992	WSU 1995	STATE 1992	STATE 1995
$1 - $49,999	6	6	6	5	3	3	**15**	**14**
$50,000-$99,999	3	6	7	5	0	1	**10**	**12**
$100,000-$999,999	8	9	7	8	0	0	**15**	**17**
$1,000,000 +	0	1	0	0	0	0	**0**	**1**
Total:	**17**	**22**	**20**	**18**	**3**	**4**	**40**	**44**
(Group N)	(32)	(33)	(39)	(42)	(14)	(20)	(85)	(95)
Percent of Total:	**53%**	**67%**	**51%**	**43%**	**21%**	**20%**	**47%**	**46%**

Includes only those grants where faculty served as principal investigator. Does* ***not* *include NSF EPSCoR awards.*

***KU data revised from previous reports.*

Source: Institutional databases.

Table 20
EPSCoR Funded Faculty and Distribution of Dollars Awarded: Group II

Dollars Awarded:	Number of EPSCoR Faculty within Each Funding Range* KSU 1994	KSU 1995	KU** 1994	KU** 1995	WSU 1994	WSU 1995	STATE 1994	STATE 1995
$1 - $49,999	0	5	4	6	4	5	**8**	**16**
$50,000-$99,999	3	2	3	4	1	2	**7**	**8**
$100,000-$999,999	10	10	5	7	1	2	**16**	**19**
$1,000,000 +	0	0	0	0	0	0	**0**	**0**
Total Number:	**13**	**17**	**12**	**17**	**6**	**9**	**31**	**43**
(Total Group)	(33)	(33)	(40)	(40)	(21)	(21)	(94)	(94)
Percent of Total:	**39%**	**52%**	**30%**	**43%**	**29%**	**43%**	**33%**	**46%**

Includes only those grants where faculty served as principal investigator. Does* ***not* *include NSF EPSCoR awards.*
***KU data revised from previous reports.*

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 1995 in an effort to see if a pattern exists between funding and infrastructure. From 1991 to 1994, it appears that increases in grant funding translated into increases in post doctoral personnel. However, from 1994 to 1995, post doctoral personnel increased while total dollars awarded, faculty, and graduate enrollment declined. While total dollars awarded increased by 14 percent from 1991 to 1995, post doctoral numbers increased by 44 percent. During the same time period, faculty declined slightly (-0.49 percent) and graduate enrollment increased by 5 percent.

Table 21
SEM INFRASTRUCTURE AND FUNDING GROWTH

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
'91 to '95 % Change	15%	44%	-0.49%	5%

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

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 (three percent) in academic year 1996 compared to 1995.

- The number of women and minority SEM faculty continued to be above 1991 levels but showed little change from 1995 to 1996. While women were 15 percent of the faculty in 1995 (well below the 50.9 percent level seen in the general population), minorities, at 14 percent, were very close to the proportion found in the general population (13.8 percent).[15]

- The number of assistant professors was lower in 1996 than in 1995 at all three institutions, as was the number of student research assistants.

[15] Population Statistics from the *Kansas Statistical Abstract 1996,* Institute for Public Policy and Business Research, The University of Kansas, May 1997.

- The number of post doctoral positions increased twelve percent from 1995 to 1996. Since 1991, post doctoral personnel has increased by 62 percent.

- Faculty salaries continue to be lower than those paid at peer institutions.

- SEM graduate enrollment for 1996 was two percent higher than 1995 levels and seven percent above 1991 levels. The number of engineering graduate students fell six percent below 1995 levels but 22 percent above 1991 levels.

- The number of women enrolled in SEM graduate programs increased four percent from 1995 to 1996 while minority graduate enrollment remained unchanged.

- In 1996, 37 percent of SEM graduate students were women and 11 percent were minorities. Compared to the general population, the number of women graduate students was low while the number of minority graduate students was closer to levels found in the general population.

- 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 1995 increased every year except for 1993.

- The number and dollars awarded by all funding sources declined in FY 1995.

The 1996 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 during the first three years of NSF EPSCoR 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[1]

KSU

Science

Animal Science
  Food Science
  Genetics
Agronomy
Biochemistry
Entomology
Grain Science
Horticulture
Plant Pathology
Biology
  Microbiology
Chemistry
Geology
Physics
Political Science/
  Public Admin.
Psychology
Sociology/Anthro/
  Social Work
Statistics
Economics
Geography
Foods & Nutrition
Anatomy & Physiology
Clinical Sciences
Pathology/Microbiology

Math

Engineering

Agricultural
  Agricultural Technology
Architectural
Chemical
Civil
Computer Science
  Information Systems
Construction Science
Electrical & Computer
Industrial/Manufacturing
  Operations Research
Mechanical
Nuclear

KU (Lawrence Campus)

Science

Academic Computing
Animal Care Unit
Anthropology
Anthropology Museum
Biological Sciences
  Biochemistry
  Biology
  Botany
  Entomology
  Environmental Studies
  Physiol. & Cell Bio.
  Systematics & Ecology
Biomedical Research
Biological Survey
Bureau of Child Research/
  Life Span Institute
Chemistry
Child Development Lab
Computer Science
Ctr. Bioanalytical Res.
Ctr. Biomedical Research
Ctr. Drug Delivery
Ctr. Neurobiol.& Immun.
Early Childhood Institute
Economics
Entomology Museum
Exper. & Applied Ecology
Geography
Geology
Gerontology Ctr.
Herbarium
Higuchi Biosciences
  Ctrs.
Human Development
Public Policy &
  Business Research
Interdisc.Env. Studies
Kansas Biological
  Survey
Kansas Geological
  Survey
Mass Spec Lab
Medicinal Chemistry
Microbiology
Museum Natural History
Museum Inv. Paleontol.
NMR Lab
Paleontological Inst.
Pharmaceutical
  Chemistry
Pharmacol. &
  Toxicology
Pharmacy Practice
Physics & Astronomy
Psychology
Science Instrument Lab
Sociology

Math

Engineering

Aerospace
Applied Remote Sensing
Architectural Engineer.
CRINC
Chemical & Petroleum
Civil
Ctr. Energy Res/Dev.
Ctr. Excel/CECASE

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[1]Departments listed under Science, Engineering, and Math are included in all databases (unless otherwise noted): faculty, personnel, graduate enrollment, degrees, facilities, and grants. Those listed under Other are also included in reports of NSF grant activity because of grants submitted to NSF.

Electrical & Computer
Engineering Management
Mechanical
Space Technology Ctr.
Tertiary Oil Recovery
Transportation Res. Center
Water Resources Institute

WSU

Science
Curriculum & Instruction[2]
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

Math

Engineering
Aerospace
Electrical
Industrial
Mechanical
Special Projects
Wind Tunnel
NIAR

[2] WSU data revised from previous reports to exclude Curriculum & Instruction starting in 1994.

APPENDIX B

SEM Faculty and Personnel

NUMBER OF SEM FACULTY

	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
KSU								
Science	479	471	472	482	479	463	-3%	-3%
Engineering	115	111	106	128	130	129	-1%	12%
Math	29	31	33	32	32	32	0%	10%
Subtotal	**623**	**613**	**611**	**642**	**641**	**624**	-3%	0%
KU-Lawrence								
Science	286	295	300	296	283	273	-4%	-5%
Engineering	76	76	75	86	87	87	0%	14%
Math	37	38	40	38	36	37	3%	0%
Subtotal	**399**	**409**	**415**	**420**	**406**	**397**	-2%	-1%
WSU*								*
Science	138	132	130	105	107	100	-7%	-5%
Engineering	44	46	45	45	46	45	-2%	0%
Math	27	26	25	25	25	23	-8%	-8%
Subtotal	**209**	**204**	**200**	**175**	**178**	**168**	-6%	-4%
STATE								
Science	903	898	902	883	869	836	-4%	-7%
Engineering	235	233	226	259	263	261	-1%	11%
Math	93	95	98	95	93	92	-1%	-1%
TOTAL	**1,231**	**1,226**	**1,226**	**1,237**	**1,225**	**1,189**	-3%	-3%

* Percent change for WSU 1994 - 1996; Curriculum & Instruction data deleted from Science starting 1994.

NUMBER OF WOMEN FACULTY

	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
KSU								
Science	54	54	60	64	64	72	13%	33%
Engineering	4	4	5	6	8	9	n.a.	n.a.
Math	0	0	0	0	0	1	n.a.	n.a.
Subtotal	**58**	**58**	**65**	**70**	**72**	**82**	14%	41%
% of Total	**9%**	**9%**	**11%**	**11%**	**11%**	**13%**		
KU-Lawrence								
Science	45	53	57	60	58	56	-3%	24%
Engineering	2	2	4	5	6	5	n.a.	n.a.
Math	3	3	3	3	3	4	n.a.	n.a.
Subtotal	**50**	**58**	**64**	**68**	**67**	**65**	-3%	30%
% of Total	**13%**	**14%**	**15%**	**16%**	**17%**	**16%**		
WSU*								*
Science	52	49	46	37	33	30	-9%	-19%
Engineering	2	2	2	2	3	4	n.a.	n.a.
Math	1	0	0	0	0	0	n.a.	n.a.
Subtotal	**55**	**51**	**48**	**39**	**36**	**34**	-6%	-13%
% of Total	**26%**	**25%**	**24%**	**22%**	**20%**	**20%**		
STATE								
Science	151	156	163	161	155	158	2%	5%
Engineering	8	8	11	13	17	18	n.a.	n.a.
Math	4	3	3	3	3	5	n.a.	n.a.
TOTAL	**163**	**167**	**177**	**177**	**175**	**181**	3%	11%
% of TOTAL	**13%**	**14%**	**14%**	**14%**	**14%**	**15%**		

* Percent change for WSU 1994 - 1996; 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	1995-1996 % Change	1991-1996 % Change
KSU								
Science	36	40	40	39	42	44	**5%**	**22%**
Engineering	16	16	14	22	26	27	**4%**	**n.a.**
Math	6	8	9	9	8	7	**n.a.**	**n.a.**
Minority total	**58**	**64**	**63**	**70**	**76**	**78**	**3%**	**34%**
% of Total	**9%**	**10%**	**10%**	**11%**	**12%**	**13%**		
KU-Lawrence								
Science	24	25	24	27	24	27	**13%**	**13%**
Engineering	10	12	12	14	13	13	**n.a.**	**n.a.**
Math	5	6	9	9	9	9	**n.a.**	**n.a.**
Subtotal	**39**	**43**	**45**	**50**	**46**	**49**	**7%**	**26%**
% of Total	**10%**	**11%**	**11%**	**12%**	**11%**	**12%**		
WSU*								*
Science	15	16	17	13	15	13	**n.a.**	**n.a.**
Engineering	10	12	12	14	15	16	**n.a.**	**n.a.**
Math	7	7	6	8	9	9	**n.a.**	**n.a.**
Subtotal	**32**	**35**	**35**	**35**	**39**	**38**	**-3%**	**9%**
% of Total	**15%**	**17%**	**18%**	**20%**	**22%**	**23%**		
STATE								
Science	75	81	81	79	81	84	**4%**	**12%**
Engineering	36	40	38	50	54	56	**4%**	**56%**
Math	18	21	24	26	26	25	**-4%**	**39%**
TOTAL	**129**	**142**	**143**	**155**	**161**	**165**	**2%**	**28%**
% of TOTAL	**10%**	**12%**	**12%**	**13%**	**13%**	**14%**		

* Percent change for WSU 1994 - 1996; 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

	1991				1992				1993				1994				1995				1996			
SCIENCE*	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**
Male	425	241	86	752	417	242	83	742	412	243	84	739	418	236	68	722	415	225	74	714	391	217	70	678
Female	54	45	52	151	54	53	49	156	60	57	46	163	64	60	37	161	64	58	33	155	72	56	30	158
Total	**479**	**286**	**138**	**903**	**471**	**295**	**132**	**898**	**472**	**300**	**130**	**902**	**482**	**296**	**105**	**883**	**479**	**283**	**107**	**869**	**463**	**273**	**100**	**836**
% Female	**11%**	**16%**	**38%**	**17%**	**11%**	**18%**	**37%**	**17%**	**13%**	**19%**	**35%**	**18%**	**13%**	**20%**	**35%**	**18%**	**13%**	**20%**	**31%**	**18%**	**16%**	**21%**	**30%**	**19%**
White	427	262	123	812	432	270	116	818	432	276	113	821	443	269	92	804	437	257	92	786	419	244	87	750
African Amer.	0	2	1	3	0	2	1	3	0	2	1	3	0	3	0	3	2	2	1	5	2	6	1	9
Hispanic	2	0	1	3	4	0	0	4	3	0	0	3	3	0	0	3	3	0	0	3	4	0	0	4
Asian/Pac.Isl.	33	22	13	68	36	22	15	73	36	21	16	73	35	23	13	71	35	21	14	70	36	20	12	68
Am.Ind/Alaskan	1	0	0	1	0	1	0	1	1	1	0	2	1	1	0	2	2	1	0	3	2	1	0	3
Total **	**463**	**286**	**138**	**887**	**472**	**295**	**132**	**899**	**472**	**300**	**130**	**902**	**482**	**296**	**105**	**883**	**479**	**281**	**107**	**867**	**463**	**271**	**100**	**834**
% Minority	**8%**	**8%**	**11%**	**8%**	**8%**	**8%**	**12%**	**9%**	**8%**	**8%**	**13%**	**9%**	**8%**	**9%**	**12%**	**9%**	**9%**	**9%**	**14%**	**9%**	**10%**	**10%**	**13%**	**10%**

	1991				1992				1993				1994				1995				1996			
MATH	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**
Male	29	34	26	89	31	35	26	92	33	37	25	95	32	35	25	92	32	33	25	90	31	33	23	87
Female	0	3	1	4	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	1	4	0	5
Total	**29**	**37**	**27**	**93**	**31**	**38**	**26**	**95**	**33**	**40**	**25**	**98**	**32**	**38**	**25**	**95**	**32**	**36**	**25**	**93**	**32**	**37**	**23**	**92**
% Female	**0%**	**8%**	**4%**	**4%**	**0%**	**8%**	**0%**	**3%**	**0%**	**8%**	**0%**	**3%**	**0%**	**8%**	**0%**	**3%**	**0%**	**8%**	**0%**	**3%**	**3%**	**11%**	**0%**	**5%**
White	23	32	20	75	23	32	19	74	24	31	19	74	23	29	17	69	24	27	16	67	25	27	14	66
African Amer.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hispanic	1	2	1	4	1	2	1	4	1	2	1	4	1	1	1	3	1	1	0	2	1	3	0	4
Asian/Pac.Isl.	5	3	6	14	7	4	6	17	8	7	5	20	8	8	7	23	7	8	9	24	6	6	9	21
Am.Ind./Alaskan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total **	**29**	**37**	**27**	**93**	**31**	**38**	**26**	**95**	**33**	**40**	**25**	**98**	**32**	**38**	**25**	**95**	**32**	**36**	**25**	**93**	**32**	**36**	**23**	**91**
% Minority	**21%**	**14%**	**26%**	**19%**	**26%**	**16%**	**27%**	**22%**	**27%**	**23%**	**24%**	**24%**	**28%**	**24%**	**32%**	**27%**	**25%**	**25%**	**36%**	**28%**	**22%**	**25%**	**39%**	**27%**

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

ENGINEERING	1991 KSU	KU	WSU	TOTL.	1992 KSU	KU	WSU	TOTL.	1993 KSU	KU	WSU	TOTL.	1994 KSU	KU	WSU	TOTL.	1995 KSU	KU	WSU	TOTL.	1996 KSU	KU	WSU	TOTL.
Male	111	74	42	227	107	74	44	225	101	71	43	215	122	81	43	246	122	81	43	246	120	82	41	243
Female	4	2	2	8	4	2	2	8	5	4	2	11	6	5	2	13	8	6	3	17	9	5	4	18
Total	**115**	**76**	**44**	**235**	**111**	**76**	**46**	**233**	**106**	**75**	**45**	**226**	**128**	**86**	**45**	**259**	**130**	**87**	**46**	**263**	**129**	**87**	**45**	**261**
% Female	**3%**	**3%**	**5%**	**3%**	**4%**	**3%**	**4%**	**3%**	**5%**	**5%**	**4%**	**5%**	**5%**	**6%**	**4%**	**5%**	**6%**	**7%**	**7%**	**6%**	**7%**	**6%**	**9%**	**7%**
White	99	66	34	199	94	64	34	192	92	63	33	188	106	72	31	209	104	74	31	209	102	72	29	203
African Amer.	0	1	1	2	0	1	1	2	0	1	1	2	0	1	1	2	0	1	2	3	0	1	2	3
Hispanic	1	0	1	2	1	1	1	3	1	1	1	3	1	1	1	3	0	1	1	2	0	1	1	2
Asian/Pac.Isl.	15	9	8	32	15	10	10	35	13	10	10	33	20	12	12	44	25	11	12	48	26	11	13	50
Am.Ind./Alaskan	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	1	1	0	0	1
Total **	**115**	**76**	**44**	**235**	**110**	**76**	**46**	**232**	**106**	**75**	**45**	**226**	**128**	**86**	**45**	**259**	**130**	**87**	**46**	**263**	**129**	**85**	**45**	**259**
% Minority	**14%**	**13%**	**23%**	**15%**	**15%**	**16%**	**26%**	**17%**	**13%**	**16%**	**27%**	**17%**	**17%**	**16%**	**31%**	**19%**	**20%**	**15%**	**33%**	**21%**	**21%**	**15%**	**36%**	**22%**

SCIENCE, MATH & ENGINEERING*	1991 KSU	KU	WSU	TOTL.	1992 KSU	KU	WSU	TOTL.	1993 KSU	KU	WSU	TOTL.	1994 KSU	KU	WSU	TOTL.	1995 KSU	KU	WSU	TOTL.	1996 KSU	KU	WSU	TOTL.
Male	565	349	154	1068	555	351	153	1059	546	351	152	1049	572	352	136	1060	569	339	142	1050	542	332	134	1008
Female	58	50	55	163	58	58	51	167	65	64	48	177	70	68	39	177	72	67	36	175	82	65	34	181
Total	**623**	**399**	**209**	**1231**	**613**	**409**	**204**	**1226**	**611**	**415**	**200**	**1226**	**642**	**420**	**175**	**1237**	**641**	**406**	**178**	**1225**	**624**	**397**	**168**	**1189**
% Female	**9%**	**13%**	**26%**	**13%**	**9%**	**14%**	**25%**	**14%**	**11%**	**15%**	**24%**	**14%**	**11%**	**16%**	**22%**	**14%**	**11%**	**17%**	**20%**	**14%**	**13%**	**16%**	**20%**	**15%**
White	549	360	177	1086	549	366	169	1084	548	370	165	1083	572	370	140	1082	565	358	139	1062	546	343	130	1019
African Amer.	0	3	2	5	0	3	2	5	0	3	2	5	0	4	1	5	2	3	3	8	2	7	3	12
Hispanic	4	2	3	9	6	3	2	11	5	3	2	10	5	2	2	9	5	2	1	8	5	4	1	10
Asian/Pac.Isl.	53	34	27	114	58	36	31	125	57	38	31	126	63	43	32	138	68	40	35	143	68	37	34	139
Am.Ind/Alaskan	1	0	0	1	0	1	0	1	1	1	0	2	2	1	0	3	1	1	0	2	3	1	0	4
Total **	**607**	**399**	**209**	**1215**	**613**	**409**	**204**	**1226**	**611**	**415**	**200**	**1226**	**642**	**420**	**175**	**1237**	**641**	**404**	**178**	**1223**	**624**	**392**	**168**	**1184**
% Minority	**10%**	**10%**	**15%**	**11%**	**10%**	**11%**	**17%**	**12%**	**10%**	**11%**	**18%**	**12%**	**11%**	**12%**	**20%**	**13%**	**12%**	**11%**	**22%**	**13%**	**13%**	**13%**	**23%**	**14%**

* WSU data revised from previous reports. Curriculum and Instruction data deleted from WSU Science data starting 1994.

** 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	% Change 1995-1996	% Change 1991-1996
Science*	2,813	3,103	3,101	3,073	3,012	3,003	**-0%**	**7%**
Math	224	235	231	239	237	229	**-3%**	**2%**
Engineering	619	588	670	758	765	710	**-7%**	**15%**
SEM TOTAL	**3,656**	**3,926**	**4,002**	**4,070**	**4,014**	**3,942**	**-2%**	**8%**
Professor	557	558	555	559	553	542	**-2%**	**-3%**
Assoc. Professor	334	322	326	327	351	354	**1%**	**6%**
Assist. Professor	340	346	345	351	321	293	**-9%**	**-14%**
Academic Staff, Directors, & Technical Staff	376	616	514	495	491	474	**-3%**	**26%**
Subtotal	*1,607*	*1,842*	*1,740*	*1,732*	*1,716*	*1,663*	**-3%**	**3%**
Research Assoc. & Assist.	341	352	344	310	293	328	**12%**	**-4%**
Post Doctoral	45	58	65	52	65	73	**12%**	**62%**
Grad. Teaching Assist.	846	789	868	911	970	900	**-7%**	**6%**
Student Research Assistants	817	885	985	1065	970	978	**1%**	**20%**
Subtotal	*2,049*	*2,084*	*2,262*	*2,338*	*2,298*	*2,279*	**-1%**	**11%**
TOTAL	**3,656**	**3,926**	**4,002**	**4,070**	**4,014**	**3,942**	**-2%**	**8%**

*WSU data (starting 1994) revised from previous reports. Science no longer includes Curriculum and Instruction.

SME PERSONNEL BY TITLE FOR KSU, KU, AND WSU

ACADEMIC YEAR BEGINNING FALL OF

SCIENCE*	**1991**				**1992**				**1993**				**1994**				**1995**				**1996**			
	KSU	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**
Professor	212	158	29	399	221	154	30	405	223	158	27	408	228	155	22	405	226	149	25	400	213	147	28	388
Associate Prof.	135	68	41	244	125	72	40	237	119	73	44	236	120	68	41	229	131	66	43	240	144	58	40	242
Assistant Prof.	132	60	68	260	125	69	62	256	130	69	59	258	134	73	42	249	122	68	39	229	106	68	32	206
Acad. Staff**	91	111	20	222	92	125	12	229	109	121	34	264	111	118	35	264	102	124	51	277	119	139	44	302
Res Assoc/Asst.	181	133	2	316	177	152	1	330	193	136	0	329	175	122	0	297	162	116	0	278	181	136	0	317
Post Docs		45		45		57		57		64		64		50	0	50		64	0	64		73	0	73
Teaching Assist.	186	334	76	596	173	348	76	597	169	350	88	607	181	353	89	623	216	329	114	659	202	299	116	617
Student Res.Asst.	274	365	1	640	296	427	8	731	363	411	11	785	413	398	8	819	386	333	7	726	423	308	25	756
Technical Staff ***	17	56	18	91	21	217	23	261	22	128	0	150	22	115	0	137	24	115	0	139	28	74	0	102
TOTAL	**1228**	**1330**	**255**	**2,813**	**1230**	**1621**	**252**	**3,103**	**1328**	**1510**	**263**	**3,101**	**1384**	**1452**	**237**	**3,073**	**1369**	**1364**	**279**	**3,012**	**1416**	**1302**	**285**	**3,003**

MATH	**1991**				**1992**				**1993**				**1994**				**1995**				**1996**			
	KSU	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**
Professor	14	17	5	36	13	17	6	36	12	18	5	35	14	18	6	38	13	18	6	37	13	19	6	38
Associate Prof.	6	14	14	34	6	14	12	32	8	14	13	35	9	12	11	32	12	13	12	37	14	11	14	39
Assistant Prof.	9	6	8	23	12	7	8	27	13	8	7	28	9	8	8	25	7	5	7	19	5	7	3	15
Academic Staff	1	1	12	14	0	2	12	14	1	2	13	16	2	3	11	16	1	2	15	18	0	4	13	17
Res. Assoc/Asst.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Post Docs		0		0	0	0		0		0		0		1	0	1		0	0	0		0	0	0
Teaching Assist.	43	50	24	117	37	49	18	104	49	49	17	115	47	52	25	124	50	53	21	124	44	54	19	117
Student Res.Asst.	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	2	0	1	0	1	1	1	0	2
Technical Staff	0	0	0	0	0	22	0	22	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
TOTAL	**73**	**88**	**63**	**224**	**68**	**111**	**56**	**235**	**83**	**93**	**55**	**231**	**81**	**97**	**61**	**239**	**83**	**93**	**61**	**237**	**77**	**97**	**55**	**229**

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

ENGINEERING ****	1991				1992				1993				1994				1995				1996			
	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.
Professor	59	45	18	122	57	43	17	117	56	39	17	112	59	43	14	116	61	42	13	116	61	43	12	116
Associate Prof.	29	18	9	56	28	16	9	53	26	18	11	55	32	23	11	66	32	26	16	74	31	27	15	73
Assistant Prof.	27	13	17	57	26	17	20	63	24	18	17	59	37	20	20	77	37	19	17	73	37	17	18	72
Academic Staff	8	8	7	23	18	12	7	37	19	19	21	59	14	19	19	52	15	14	7	36	13	14	16	43
Res. Assoc/Asst.	18	4	3	25	12	3	7	22	12	3	0	15	10	3	0	13	13	2	0	15	8	3	0	11
Post Docs		0		0		1		1		1		1		1	0	1		1	0	1		0	0	0
Teaching Assist.	21	43	69	133	9	44	35	88	42	48	56	146	45	44	75	164	51	45	91	187	47	63	56	166
Student Res.Asst.	118	29	30	177	105	22	27	154	133	27	39	199	186	13	45	244	179	34	30	243	164	19	37	220
Technical Staff	2	11	13	26	5	35	13	53	8	16	0	24	9	16	0	25	6	14	0	20	2	7	0	9
TOTAL	**282**	**171**	**166**	**619**	**260**	**193**	**135**	**588**	**320**	**189**	**161**	**670**	**392**	**182**	**184**	**758**	**394**	**197**	**174**	**765**	**363**	**193**	**154**	**710**

SCIENCE, MATH & ENGINEERING*	1991				1992				1993				1994				1995				1996			
	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.
Professor	285	220	52	557	291	214	53	558	291	215	49	555	301	216	42	559	300	209	44	553	287	209	46	542
Associate Prof.	170	100	64	334	159	102	61	322	153	105	68	326	161	103	63	327	175	105	71	351	189	96	69	354
Assistant Prof.	168	79	93	340	163	93	90	346	167	95	83	345	180	101	70	351	166	92	63	321	148	92	53	293
Academic Staff	100	120	39	259	110	139	31	280	129	142	68	339	127	140	65	332	118	140	73	331	132	157	73	362
Res. Assoc/Asst.	199	137	5	341	189	155	8	352	205	139	0	344	185	125	0	310	175	118	0	293	189	139	0	328
Post Docs	0	45	0	45	0	58	0	58	0	65	0	65	0	52	0	52	0	65	0	65	0	73	0	73
Teaching Assist.	250	427	169	846	219	441	129	789	260	447	161	868	273	449	189	911	317	427	226	970	293	416	191	900
Student Res.Asst.	392	394	31	817	401	449	35	885	496	439	50	985	599	413	53	1065	565	368	37	970	588	328	62	978
Technical Staff	19	67	31	117	26	274	36	336	30	145	0	175	31	132	0	163	30	130	0	160	30	82	0	112
TOTAL	**1583**	**1589**	**484**	**3,656**	**1558**	**1925**	**443**	**3,926**	**1731**	**1792**	**479**	**4,002**	**1857**	**1731**	**482**	**4,070**	**1846**	**1654**	**514**	**4,014**	**1856**	**1592**	**494**	**3,942**

* WSU data revised from previous reports. Curriculum and Instruction data deleted from WSU Science data starting 1994.

** 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 Natl. Inst. for Aviation Res.

SME PERSONNEL* DEMOGRAPHICS FOR KSU, KU, AND WSU

ACADEMIC YEAR BEGINNING FALL OF

SCIENCE**	**1991**				**1992**				**1993**				**1994**				**1995**				**1996**			
	KSU	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**
Male	595	861	138	1,594	588	990	136	1,714	950	917	145	2,012	977	864	134	1,975	967	803	156	1,926	995	761	154	1,910
Female	173	469	117	759	173	631	116	920	378	593	118	1,089	407	588	103	1,098	402	561	123	1,086	421	541	131	1,093
% Female	**23%**	**35%**	**46%**	**32%**	**23%**	**39%**	**46%**	**35%**	**28%**	**39%**	**45%**	**35%**	**29%**	**40%**	**43%**	**36%**	**29%**	**41%**	**44%**	**36%**	**30%**	**42%**	**46%**	**36%**
White	665	1016	214	1,895	661	1241	212	2,114	1018	1183	221	2,422	1056	1135	192	2,383	1053	1076	222	2,351	1070	1006	225	2,301
African Amer.	4	25	2	31	5	34	2	41	20	31	5	56	19	32	2	53	19	36	3	58	20	32	4	56
Hispanic	5	32	1	38	5	25	1	31	28	29	2	59	28	26	0	54	22	31	2	55	32	22	3	57
Asian/Pac.Isl.	76	245	35	356	89	313	35	437	258	263	34	555	277	252	42	571	272	214	51	537	292	87	51	430
Am.Ind/Alaskan	2	12	3	17	1	8	2	11	4	4	1	9	4	7	1	12	3	7	1	11	2	4	2	8
% Minority	**12%**	**24%**	**16%**	**19%**	**13%**	**23%**	**16%**	**20%**	**23%**	**22%**	**16%**	**22%**	**24%**	**22%**	**19%**	**22%**	**23%**	**21%**	**20%**	**22%**	**24%**	**13%**	**21%**	**19%**

MATH	**1991**				**1992**				**1993**				**1994**				**1995**				**1996**			
	KSU	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**	**KSU**	**KU**	**WSU**	**TOTL.**
Male	30	64	51	145	31	80	47	158	69	73	44	186	64	75	49	188	70	69	46	185	65	72	40	177
Female	0	24	12	36	0	31	9	40	14	20	11	45	16	22	12	50	13	24	15	52	12	25	15	52
% Female	**0%**	**27%**	**19%**	**20%**	**0%**	**28%**	**16%**	**20%**	**17%**	**22%**	**20%**	**19%**	**20%**	**23%**	**20%**	**21%**	**16%**	**26%**	**25%**	**22%**	**16%**	**26%**	**27%**	**23%**
White	24	66	47	137	23	78	43	144	55	70	41	166	50	75	41	166	58	73	39	170	61	74	37	172
African Amer.	0	0	2	2	0	2	1	3	1	1	3	5	1	1	3	5	1	0	3	4	1	0	2	3
Hispanic	1	2	3	6	1	2	3	6	1	3	4	8	1	2	4	7	1	2	4	7	1	4	4	9
Asian/Pac.Isl.	5	19	11	35	7	27	9	43	26	17	7	50	28	17	13	58	22	18	15	55	13	11	12	36
Am.Ind/Alaskan	0	1	0	1	0	2	0	2	0	2	0	2	0	2	0	2	1	0	0	1	1	0	0	1
% Minority	**20%**	**25%**	**25%**	**24%**	**26%**	**30%**	**23%**	**27%**	**34%**	**25%**	**25%**	**28%**	**38%**	**23%**	**33%**	**30%**	**30%**	**22%**	**36%**	**28%**	**21%**	**17%**	**33%**	**22%**

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

ENGINEERING	1991				1992				1993				1994				1995				1996			
	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.
Male	134	156	147	437	138	168	121	427	289	160	144	593	348	162	168	678	347	175	159	681	328	165	142	635
Female	10	17	19	46	8	25	14	47	31	29	17	77	43	20	16	79	47	22	15	84	35	28	12	75
% Female	**7%**	**10%**	**11%**	**10%**	**5%**	**13%**	**10%**	**10%**	**10%**	**15%**	**11%**	**11%**	**11%**	**11%**	**9%**	**10%**	**12%**	**11%**	**9%**	**11%**	**10%**	**15%**	**8%**	**11%**
White	119	128	98	345	118	140	81	339	182	139	81	402	211	144	89	444	215	145	70	430	187	140	66	393
African Amer.	0	6	2	8	0	9	2	11	1	5	2	8	1	2	2	5	3	5	3	11	4	2	3	9
Hispanic	1	3	4	8	1	3	1	5	2	2	6	10	4	4	3	11	3	5	2	10	3	2	2	7
Asian/Pac.Isl.	24	35	50	109	26	41	42	109	133	42	67	242	173	32	86	291	172	42	94	308	168	27	81	276
Am.Ind/Alaskan	0	1	12	13	1	0	9	10	2	1	5	8	2	0	4	6	1	0	5	6	1	0	2	3
% Minority	**17%**	**26%**	**41%**	**29%**	**19%**	**27%**	**40%**	**28%**	**43%**	**26%**	**50%**	**40%**	**46%**	**21%**	**52%**	**41%**	**45%**	**26%**	**60%**	**44%**	**48%**	**18%**	**57%**	**43%**

SCIENCE, MATH & ENGINEERING	1991				1992				1993				1994				1995				1996			
	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.	KSU	KU	WSU	TOTL.
Male	759	1081	336	2,176	757	1238	304	2,299	1308	1150	333	2,791	1389	1101	351	2,841	1384	1047	361	2,792	1388	998	336	2,722
Female	183	510	148	841	181	687	139	1,007	423	642	146	1,211	466	630	131	1,227	462	607	153	1,222	468	594	158	1,220
% Female	**19%**	**32%**	**31%**	**28%**	**19%**	**36%**	**31%**	**30%**	**24%**	**36%**	**30%**	**30%**	**25%**	**36%**	**27%**	**30%**	**25%**	**37%**	**30%**	**30%**	**25%**	**37%**	**32%**	**31%**
White	808	1210	359	2,377	802	1459	336	2,597	1255	1392	343	2,990	1317	1354	322	2,993	1326	1294	331	2,951	1318	1220	328	2,866
African Amer.	4	31	6	41	5	45	5	55	22	37	10	69	21	35	7	63	23	41	9	73	25	34	9	68
Hispanic	7	37	8	52	7	30	5	42	31	34	12	77	33	32	7	72	26	38	8	72	36	28	9	73
Asian/Pac.Isl.	105	299	96	500	122	381	86	589	417	322	108	847	478	301	141	920	466	274	160	900	473	125	144	742
Am.Ind./Alaskan	2	14	15	31	2	10	11	23	6	7	6	19	6	9	5	20	5	7	6	18	4	4	4	12
% Minority	**13%**	**24%**	**26%**	**21%**	**14%**	**24%**	**24%**	**21%**	**27%**	**22%**	**28%**	**25%**	**29%**	**22%**	**33%**	**26%**	**28%**	**22%**	**36%**	**26%**	**29%**	**14%**	**34%**	**24%**

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

** WSU data revised from previous reports. Curriculum and Instruction data deleted from WSU Science data starting 1994.

SME PERSONNEL FOR KSU, KU, AND WSU BY AGE
ACADEMIC YEAR BEGINNING THE FALL OF 1996

	AGE RANGES									
KSU	**20-24**	**25-29**	**30-34**	**35-39**	**40-44**	**45-49**	**50-54**	**55-59**	**60+**	**TOTAL**
SCIENCE										
Professor	0	0	0	2	21	29	54	52	53	**211**
Assoc Prof	0	0	4	36	40	18	26	12	8	**144**
Assist Prof	0	3	30	34	20	8	4	5	2	**106**
Subtotal	**0**	**3**	**34**	**72**	**81**	**55**	**84**	**69**	**63**	**461**
MATH										
Professor	0	0	0	1	2	2	1	5	2	**13**
Assoc Prof	0	0	0	6	1	2	3	2	0	**14**
Assist Prof	0	0	1	2	0	2	0	0	0	**5**
Subtotal	**0**	**0**	**1**	**9**	**3**	**6**	**4**	**7**	**2**	**32**
ENGINEERING										
Professor	0	0	0	3	7	7	12	13	18	**60**
Assoc Prof	0	0	1	8	6	9	3	3	1	**31**
Assist Prof	0	2	18	8	4	2	1	1	1	**37**
Subtotal	**0**	**2**	**19**	**19**	**17**	**18**	**16**	**17**	**20**	**128**
SME										
Professor	0	0	0	6	30	38	67	70	73	**284**
Assoc Prof	0	0	5	50	47	29	32	17	9	**189**
Assist Prof	0	5	49	44	24	12	5	6	3	**148**
TOTAL	**0**	**5**	**54**	**100**	**101**	**79**	**104**	**93**	**85**	**621**

KU	**20-24**	**25-29**	**30-34**	**35-39**	**40-44**	**45-49**	**50-54**	**55-59**	**60+**	**TOTAL**
SCIENCE										
Professor	0	0	0	3	9	23	37	31	44	**147**
Assoc Prof	0	0	1	8	20	14	8	5	2	**58**
Assist Prof	0	1	20	26	9	10	1	0	1	**68**
Subtotal	**0**	**1**	**21**	**37**	**38**	**47**	**46**	**36**	**47**	**273**
MATH										
Professor	0	0	0	1	2	3	3	5	5	**19**
Assoc Prof	0	0	0	1	3	0	1	1	5	**11**
Assist Prof	0	1	2	4	0	0	0	0	0	**7**
Subtotal	**0**	**1**	**2**	**6**	**5**	**3**	**4**	**6**	**10**	**37**
ENGINEERING										
Professor	0	0	0	0	5	3	13	6	16	**43**
Assoc Prof	0	0	1	5	9	7	3	1	1	**27**
Assist Prof	0	2	4	8	3	0	0	0	0	**17**
Subtotal	**0**	**2**	**5**	**13**	**17**	**10**	**16**	**7**	**17**	**87**
SME										
Professor	0	0	0	4	16	29	53	42	65	**209**
Assoc Prof	0	0	2	14	32	21	12	7	8	**96**
Assist Prof	0	4	26	38	12	10	1	0	1	**92**
TOTAL	**0**	**4**	**28**	**56**	**60**	**60**	**66**	**49**	**74**	**397**

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

WSU	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+	TOTAL
SCIENCE										
Professor	0	0	0	0	2	3	5	12	6	**28**
Assoc Prof	0	0	0	4	8	9	9	3	8	**41**
Assist Prof	0	1	6	6	4	3	4	4	5	**33**
Subtotal	**0**	**1**	**6**	**10**	**14**	**15**	**18**	**19**	**19**	**102**
MATH										
Professor	0	0	0	0	0	3	2	0	1	**6**
Assoc Prof	0	0	0	2	2	4	1	3	2	**14**
Assist Prof	0	0	1	1	0	1	0	0	0	**3**
Subtotal	**0**	**0**	**1**	**3**	**2**	**8**	**3**	**3**	**3**	**23**
ENGINEERING										
Professor	0	0	0	0	0	3	0	5	4	**12**
Assoc Prof	0	0	0	4	3	3	4	0	1	**15**
Assist Prof	0	1	3	11	2	1	1	0	0	**19**
Subtotal	**0**	**1**	**3**	**15**	**5**	**7**	**5**	**5**	**5**	**46**
SME										
Professor	0	0	0	0	2	9	7	17	11	**46**
Assoc Prof	0	0	0	10	13	16	14	6	11	**70**
Assist Prof	0	2	10	18	6	5	5	4	5	**55**
TOTAL	**0**	**2**	**10**	**28**	**21**	**30**	**26**	**27**	**27**	**171**

STATE TOTALS

	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+	TOTAL
SCIENCE										
Professor	0	0	0	5	32	55	96	95	103	**386**
Assoc Prof	0	0	5	48	68	41	43	20	18	**243**
Assist Prof	0	5	56	66	33	21	9	9	8	**207**
Subtotal	**0**	**5**	**61**	**119**	**133**	**117**	**148**	**124**	**129**	**836**
MATH										
Professor	0	0	0	2	4	8	6	10	8	**38**
Assoc Prof	0	0	0	9	6	6	5	6	7	**39**
Assist Prof	0	1	4	7	0	3	0	0	0	**15**
Subtotal	**0**	**1**	**4**	**18**	**10**	**17**	**11**	**16**	**15**	**92**
ENGINEERING										
Professor	0	0	0	3	12	13	25	24	38	**115**
Assoc Prof	0	0	2	17	18	19	10	4	3	**73**
Assist Prof	0	5	25	27	9	3	2	1	1	**73**
Subtotal	**0**	**5**	**27**	**47**	**39**	**35**	**37**	**29**	**42**	**261**
SME										
Professor	0	0	0	10	48	76	127	129	149	**539**
Assoc Prof	0	0	7	74	92	66	58	30	28	**355**
Assist Prof	0	11	85	100	42	27	11	10	9	**295**
TOTAL	**0**	**11**	**92**	**184**	**182**	**169**	**196**	**169**	**186**	**1,189**

RESEARCH PERSONNEL* RECEIVING FINANCIAL SUPPORT VS. GRADUATE ENROLLMENT

KSU

	1991	1992	1993	1994	1995	1996
Supported	841	809	961	1,057	1,057	1,070
Enrolled	1,216	1,282	1,361	1,442	1,474	1,398
% Supported	69%	63%	71%	73%	72%	77%

KU

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

WSU

	1991	1992	1993	1994**	1995**	1996**
Supported	205	172	211	242	263	253
Enrolled	1,000	968	1,017	1,078	950	1,102
% Supported	21%	18%	21%	22%	28%	23%

STATE

	1991	1992	1993	1994**	1995**	1996**
Supported	2,049	2,084	2,262	2,338	2,298	2,279
Enrolled	3,918	4,069	4,195	4,400	4,125	4,201
% Supported	52%	51%	54%	53%	56%	54%

*Includes research associates/assistants, post docs., graduate teaching assistants, student research assistants
** WSU data revised from previous reports. Curriculum and Instruction data no longer included with Science.

APPENDIX C

SEM Graduate Enrollment

SEM GRADUATE ENROLLMENT

KSU	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change*
Science	894	930	988	1,009	991	960	-3%	7%
Engineering	270	297	314	380	421	376	-11%	39%
Math	52	55	59	53	62	62	0%	19%
Subtotal	**1,216**	**1,282**	**1,361**	**1,442**	**1,474**	**1,398**	-5%	15%
KU-Lawrence								
Science	1,095	1,161	1,168	1,210	1,057	1,087	3%	-1%
Engineering	553	597	587	606	588	553	-6%	0%
Math	54	61	62	64	56	61	9%	13%
Subtotal	**1,702**	**1,819**	**1,817**	**1,880**	**1,701**	**1,701**	0%	-0%
WSU*								
Science	694	641	623	641	511	663	30%	3%
Engineering	266	285	350	392	398	398	0%	2%
Math	40	42	44	45	41	41	0%	-9%
Subtotal	**1,000**	**968**	**1,017**	**1,078**	**950**	**1,102**	16%	2%
STATE								
Science	2,683	2,732	2,779	2,860	2,559	2,710	6%	1%
Engineering	1,089	1,179	1,251	1,378	1,407	1,327	-6%	22%
Math	146	158	165	162	159	164	3%	12%
TOTAL	**3,918**	**4,069**	**4,195**	**4,400**	**4,125**	**4,201**	2%	7%

*Percent change for WSU 1994 - 1996; Curriculum and Instruction data deleted from Science starting 1994.

WOMEN GRADUATE ENROLLMENT

KSU	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	285	317	326	342	341	328	-4%	15%
Engineering	28	27	35	52	62	50	-19%	79%
Math	7	11	18	18	15	15	n.a.	n.a.
Subtotal	**320**	**355**	**379**	**412**	**418**	**393**	-6%	23%
% of Total	**26%**	**28%**	**28%**	**29%**	**28%**	**28%**		
KU-Lawrence								
Science	464	514	533	569	524	542	3%	17%
Engineering	75	80	84	92	88	90	2%	20%
Math	22	22	20	19	20	17	n.a.	n.a.
Subtotal	**561**	**616**	**637**	**680**	**632**	**649**	3%	16%
% of Total	**33%**	**34%**	**35%**	**36%**	**37%**	**38%**		
WSU*								
Science	522	484	411	447	403	464	15%	4%
Engineering	26	30	38	38	43	43	0%	13%
Math	11	16	17	18	13	13	n.a.	n.a.
Subtotal	**559**	**530**	**466**	**503**	**459**	**520**	13%	3%
% of Total	**56%**	**55%**	**46%**	**47%**	**48%**	**47%**		
STATE								
Science	1,271	1,315	1,270	1,358	1,268	1,334	5%	5%
Engineering	129	137	157	182	193	183	-5%	42%
Math	40	49	55	55	48	45	-6%	13%
TOTAL	**1,440**	**1,501**	**1,482**	**1,595**	**1,509**	**1,562**	4%	8%
% of Total	**37%**	**37%**	**35%**	**36%**	**37%**	**37%**		

*Percent change for WSU 1994 - 1996; 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	1995-1996 % Change	1992-1996 % Change*
Science	*	46	36	36	42	51	21%	11%
Engineering	*	13	9	9	31	21	n.a.	n.a.
Math	*	3	2	2	3	4	n.a.	n.a.
Subtotal	*	**62**	**47**	**47**	**76**	**76**	0%	23%
% of Total	*	**9%**	**6%**	**6%**	**9%**	**10%**		
KU-Lawrence								
Science	43	51	57	63	61	68	11%	33%
Engineering	19	20	26	25	29	34	17%	70%
Math	2	4	5	6	2	2	n.a.	n.a.
Subtotal	**64**	**75**	**88**	**94**	**92**	**104**	13%	39%
% of Total	**7%**	**8%**	**9%**	**10%**	**10%**	**11%**		
WSU*								
Science	38	48	39	36	30	18	-40%	-50%
Engineering	15	17	24	22	29	29	0%	32%
Math	1	0	1	0	2	2	n.a.	n.a.
Subtotal	**54**	**65**	**64**	**58**	**61**	**49**	-20%	-16%
% of Total	**7%**	**9%**	**9%**	**9%**	**9%**	**19%**		
STATE								
Science	*	145	132	135	133	137	3%	-6%
Engineering	*	50	59	56	89	84	-6%	68%
Math	*	7	8	8	7	8	n.a.	n.a.
TOTAL	*	**202**	**199**	**199**	**229**	**229**	0%	13%
% of TOTAL	*	**8%**	**8%**	**8%**	**9%**	**11%**		

*KSU ethnic data are not available. Percent change calculated for 1992 to 1996. Unable to calculate State totals. Percent change for WSU 1994 to 1996; 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**	1994 KSU	KU	WSU	TOTAL	1995 KSU	KU	WSU	TOTAL	1996 KSU	KU	WSU	TOTAL	1995-1996 % Change	1991-1996 % Change
Male	667	641	194	1,502	650	533	108	**1,291**	632	545	199	**1,376**	7%	-3%
Female	342	569	447	1,358	341	524	403	**1,268**	328	542	464	**1,334**	5%	5%
TOTAL	**1,009**	**1,210**	**641**	**2,860**	**991**	**1,057**	**511**	**2,559**	**960**	**1,087**	**663**	**2,710**	6%	1%
% Female	**34%**	**47%**	**70%**	**47%**	**34%**	**50%**	**79%**	**50%**	**34%**	**50%**	**70%**	**49%**		
White	550	551	497	**1,598**	550	489	481	**1520**	511	548	663	**1,722**	13%	*
African Amer.	8	17	9	**34**	8	18	9	**35**	12	20	4	**36**	3%	
Hispanic	17	17	12	**46**	15	19	10	**44**	13	22	6	**41**	-7%	
Asian/Pac.Isl.	9	25	9	**43**	17	20	8	**45**	24	22	7	**53**	18%	
Am.Ind/Alaskan	2	4	6	**12**	2	4	3	**9**	2	4	1	**7**	n.a.	
Nonresident Alien	423	320	---	**743**	399	264	*	**663**	398	252	---	**650**	*	
Not Reported	0	276	108	**384**	0	243	*	**243**	0	219	201	**420**	*	
% Minority* **	**6%**	**10%**	**7%**	**8%**	**7%**	**11%**	**6%**	**8%**	**9%**	**11%**	**3%**	**7%**		

MATH	1994 KSU	KU	WSU**	TOTAL	1995 KSU	KU	WSU**	TOTAL	1996 KSU	KU	WSU	TOTAL	1995-1996 % Change	1991-1996 % Change
Male	35	45	27	**107**	47	36	28	**111**	47	44	28	**119**	7%	-12%
Female	18	19	18	**55**	15	20	13	**48**	15	17	13	**45**	-6%	-13%
TOTAL	**53**	**64**	**45**	**162**	**62**	**56**	**41**	**159**	**62**	**61**	**41**	**164**	3%	-12%
% Female	**34%**	**30%**	**40%**	**34%**	**24%**	**36%**	**32%**	**30%**	**24%**	**28%**	**32%**	**27%**		
White	21	28	5	**54**	23	30	18	**71**	26	33	18	**77**	8%	*
African Amer.	0	2	0	**2**	1	1	1	**3**	1	0	1	**2**	n.a.	
Hispanic	0	0	0	**0**	1	0	1	**2**	1	0	1	**2**	n.a.	
Asian/Pac.Isl.	2	2	0	**4**	0	1	0	**1**	0	1	0	**1**	n.a.	
Am.Ind/Alaskan	0	2	0	**2**	1	0	0	**1**	2	1	0	**3**	n.a.	
Nonresident Alien	30	17	---	**100**	36	15	0	**51**	32	19	---	**51**	*	
Not Reporting	0	13	40	**53**	0	9	21	**30**	0	7	21	**28**	*	
% Minority* **	**9%**	**18%**	**0%**	**13%**	**12%**	**6%**	**10%**	**9%**	**13%**	**6%**	**10%**	**9%**		

ENGINEERING	1994 KSU	KU	WSU**	TOTAL	1995 KSU	KU	WSU**	TOTAL	1996 KSU	KU	WSU	TOTAL	1995-1996 % Change	1991-1996 % Change
Male	328	514	354	**1,196**	359	500	355	**1,214**	326	463	355	**1,144**	-6%	-19%
Female	52	92	38	**182**	62	88	43	**193**	50	90	43	**183**	-5%	-42%
TOTAL	**380**	**606**	**392**	**1,378**	**421**	**588**	**398**	**1,407**	**376**	**553**	**398**	**1,327**	-6%	-22%
% Female	**14%**	**15%**	**10%**	**13%**	**15%**	**15%**	**11%**	**14%**	**13%**	**16%**	**11%**	**14%**		
White	144	306	121	**571**	184	302	120	**606**	151	294	120	**565**	-7%	*
African Amer.	2	1	3	**6**	8	3	6	**17**	6	5	6	**17**	n.a.	
Hispanic	4	4	1	**9**	3	6	1	**10**	2	8	1	**11**	n.a.	
Asian/Pac.Isl.	3	19	16	**38**	20	19	20	**59**	13	19	20	**52**	-12%	
Am.Ind/Alaskan	0	1	2	**3**	0	1	2	**3**	0	2	2	**4**	n.a.	
Nonresident Alien	227	177	---	**404**	206	167	0	**373**	204	163	---	**367**	*	
Not Reporting	0	98	249	**347**	0	90	249	**339**	0	62	249	**311**	*	
% Minority* **	**6%**	**8%**	**15%**	**9%**	**14%**	**9%**	**19%**	**13%**	**12%**	**10%**	**19%**	**13%**		

SCIENCE, MATH & ENGINEERING	1994 KSU	KU	WSU**	TOTAL	1995 KSU	KU	WSU**	TOTAL	1996 KSU	KU	WSU	TOTAL	1995-1996 % Change	1991-1996 % Change
Male	1,030	1,200	575	**2,805**	1,056	1,069	491	**2,616**	1,005	1,052	582	**2,639**	1%	6%
Female	412	680	503	**1,595**	418	632	459	**1,509**	393	649	520	**1,562**	4%	8%
TOTAL	**1,442**	**1,880**	**1,078**	**4,400**	**1,474**	**1,701**	**950**	**4,125**	**1,398**	**1,701**	**1,102**	**4,201**	2%	7%
% Female	**29%**	**36%**	**47%**	**36%**	**28%**	**37%**	**48%**	**37%**	**28%**	**38%**	**47%**	**37%**		
White	715	885	623	**2,223**	757	821	619	**2,197**	688	875	801	**2,364**	8%	*
African Amer.	10	20	12	**42**	17	22	16	**55**	19	25	11	**55**	0%	
Hispanic	21	21	13	**55**	19	25	12	**56**	16	30	8	**54**	-4%	
Asian/Pac.Isl.	14	46	25	**85**	37	40	28	**105**	37	42	27	**106**	1%	
Am.Ind/Alaskan	2	7	8	**17**	3	5	5	**13**	4	7	3	**14**	n.a.	
Nonresident Alien	680	514	---	**1,194**	641	446	0	**1,087**	634	434	---	**1,068**	*	
Not Reporting	0	387	397	**784**	0	342	270	**612**	0	288	471	**759**	*	
% Minority* **	**6%**	**10%**	**9%**	**8%**	**9%**	**10%**	**9%**	**9%**	**10%**	**11%**	**6%**	**9%**		

* 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.

**WSU data revised from previous reports. Ethnicity data not reportable to any accuracy. Available 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 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* KSU	KU	WSU	TOTAL	1992 KSU	KU	WSU	TOTAL	1993 KSU	KU	WSU	TOTAL	1994 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
TOTAL	**894**	**1,095**	**694**	**2,683**	**930**	**1,161**	**641**	**2,732**	**988**	**1,168**	**623**	**2,779**	**1,009**	**1,210**	**641**	**2,860**
% 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%**	**6%**	**6%**	**8%**	**8%**	**8%**	**8%**	**6%**	**9%**	**7%**	**7%**	**6%**	**10%**	**7%**	**8%**

MATH	1991 KSU	KU	WSU	TOTAL	1992 KSU	KU	WSU	TOTAL	1993 KSU	KU	WSU	TOTAL	1994 KSU	KU	WSU	TOTAL
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**
TOTAL	**52**	**54**	**40**	**146**	**55**	**61**	**42**	**158**	**59**	**62**	**44**	**165**	**53**	**64**	**45**	**162**
% 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%**	**11%**	**13%**	**0%**	**9%**	**6%**	**15%**	**4%**	**9%**	**9%**	**18%**	**0%**	**13%**

ENGINEERING	1991 KSU	KU	WSU	TOTAL	1992 KSU	KU	WSU	TOTAL	1993 KSU	KU	WSU	TOTAL	1994 KSU	KU	WSU	TOTAL
Male	242	478	240	**960**	270	517	255	**1,042**	279	503	312	**1,094**	328	514	354	**1,196**
Female	28	75	26	**129**	27	80	30	**137**	35	84	38	**157**	52	92	38	**182**
TOTAL	**270**	**553**	**266**	**1,089**	**297**	**597**	**285**	**1,179**	**314**	**587**	**350**	**1,251**	**380**	**606**	**392**	**1,378**
% Female	**10%**	**14%**	**10%**	**12%**	**9%**	**13%**	**11%**	**12%**	**11%**	**14%**	**11%**	**13%**	**14%**	**15%**	**10%**	**13%**
White	*	314	112	**426**	129	314	118	**561**	135	302	117	**554**	144	306	121	**571**
African Amer.		1	3	**4**	2	3	4	**9**	2	1	1	**4**	2	1	3	**6**
Hispanic		3	2	**5**	2	4	3	**9**	2	5	8	**15**	4	4	1	**9**
Asian/Pac.Isl.		14	9	**23**	9	12	9	**30**	5	19	13	**37**	3	19	16	**38**
Am.Ind/Alaskan		1	1	**2**	0	1	1	**2**	0	1	2	**3**	0	1	2	**3**
Nonresident Alien		160	139	**299**	155	190	150	**495**	170	181	209	**560**	227	177	---	**404**
Not Reporting		60	0	**60**	0	73	0	**73**	0	78	0	**78**	0	98	249	**347**
% Minority* **		**6%**	**12%**	**7%**	**9%**	**6%**	**13%**	**8%**	**6%**	**8%**	**17%**	**10%**	**6%**	**8%**	**15%**	**9%**

SCIENCE, MATH & ENGINEERING	1991 KSU	KU	WSU	TOTAL	1992 KSU	KU	WSU	TOTAL	1993 KSU	KU	WSU	TOTAL	1994 KSU	KU	WSU**	TOTAL
Male	896	1,141	441	**2,478**	927	1,203	438	**2,568**	982	1,180	551	**2,713**	1,030	1,200	575	**2,805**
Female	320	561	559	**1,440**	355	616	530	**1,501**	379	637	466	**1,482**	412	680	503	**1,595**
TOTAL	**1,216**	**1,702**	**1,000**	**3,918**	**1,282**	**1,819**	**968**	**4,069**	**1,361**	**1,817**	**1,017**	**4,195**	**1,442**	**1,880**	**1,078**	**4,400**
% Female	**26%**	**33%**	**56%**	**37%**	**28%**	**34%**	**55%**	**37%**	**28%**	**35%**	**46%**	**35%**	**29%**	**36%**	**47%**	**36%**
White	*	901	734	**1,635**	662	913	685	**2,260**	707	877	683	**2,267**	715	885	623	**2,223**
African Amer.		13	20	**33**	25	15	28	**68**	13	17	17	**47**	10	20	12	**42**
Hispanic		16	11	**27**	15	21	15	**51**	14	22	22	**58**	21	21	13	**55**
Asian/Pac.Isl.		32	13	**45**	18	34	18	**70**	16	43	21	**80**	14	46	25	**85**
Am.Ind/Alaskan		3	10	**13**	4	5	4	**13**	4	6	4	**14**	2	7	8	**17**
Nonresident Alien		518	212	**730**	558	550	218	**1,326**	607	543	270	**1,420**	680	514	---	**1,194**
Not Reporting		219	0	**219**	0	281	0	**281**	0	309	0	**309**	0	387	397	**784**
% Minority* **		**7%**	**7%**	**7%**	**9%**	**8%**	**9%**	**8%**	**6%**	**9%**	**9%**	**8%**	**6%**	**10%**	**9%**	**8%**

*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.

**C & I data deleted from Science starting 1994. Ethnicity data not reportable to any accuracy. Available 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	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Ph.D.	182	236	197	218	238	241	1%	32%
Masters	559	621	675	787	828	869	5%	55%
Bachelors	2,723	3,123	3,039	3,205	3,140	3,075	-2%	13%
TOTAL	**3,464**	**3,980**	**3,911**	**4,210**	**4,206**	**4,185**	-0%	21%
WOMEN								
Ph.D.	40	60	61	57	56	64	14%	60%
Masters	210	202	285	327	348	334	-4%	59%
Bachelors	1,111	1,233	1,235	1,257	1,260	1,249	-1%	12%
Subtotal	**1,361**	**1,495**	**1,581**	**1,641**	**1,664**	**1,647**	-1%	21%
% of Total	**39%**	**38%**	**40%**	**39%**	**40%**	**39%**		
MINORITIES *								
Ph.D.	1	2	11	9	26	19	-27%	*
Masters	16	15	34	29	37	58	57%	*
Bachelors	147	172	154	218	269	311	16%	*
Subtotal	**164**	**189**	**199**	**256**	**332**	**388**	17%	*
% of Total	**5%**	**5%**	**5%**	**6%**	**8%**	**9%**		

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

SEM Ph.D. DEGREES AWARDED

TOTAL POPULATION	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
KSU	80	111	87	97	105	110	5%	38%
KU	93	112	91	97	113	108	-5%	16%
WSU	9	13	19	24	20	23	13%	n.a.
TOTAL	**182**	**236**	**197**	**218**	**238**	**241**	1%	32%
WOMEN								
KSU	15	23	25	14	25	19	n.a.	n.a.
KU	23	33	32	37	26	40	35%	74%
WSU	2	4	4	6	5	5	n.a.	n.a.
Subtotal	**40**	**60**	**61**	**57**	**56**	**64**	13%	60%
% of Total	**22%**	**25%**	**31%**	**26%**	**24%**	**27%**		
MINORITIES *								
KSU*	*	*	*	*	12	10		
KU	1	2	7	3	9	6		
WSU	0	0	4	6	5	3		
Subtotal	**1**	**2**	**11**	**9**	**26**	**19**	n.a.	n.a.
% of Total	**1%**	**1%**	**6%**	**4%**	**11%**	**8%**		

* 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	1995-1996 % Change	1991-1996 % Change
Science	65	94	70	75	78	84	8%	29%
Engineering	13	14	13	14	24	21	n.a.	n.a.
Math	2	3	4	8	3	5	n.a.	n.a.
Subtotal	**80**	**111**	**87**	**97**	**105**	**110**	5%	38%

KU-Lawrence	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	76	89	69	73	97	92	-5%	21%
Engineering	16	18	21	19	14	15	n.a.	n.a.
Math	1	5	1	5	2	1	n.a.	n.a.
Subtotal	**93**	**112**	**91**	**97**	**113**	**108**	-4%	16%

WSU	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	5	5	5	9	4	4	n.a.	n.a.
Engineering	4	7	12	13	15	16	n.a.	n.a.
Math	0	1	2	2	1	3	n.a.	n.a.
Subtotal	**9**	**13**	**19**	**24**	**20**	**23**	15%	n.a.

KSU, KU, WSU COMBINED

	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	146	188	144	157	179	180	1%	23%
Engineering	33	39	46	46	53	52	-2%	58%
Math	3	9	7	15	6	9	n.a.	n.a.
TOTAL	**182**	**236**	**197**	**218**	**238**	**241**	1%	32%

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

Ph.D. DEGREES EARNED BY WOMEN

KSU

	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	13	20	25	14	21	19		
Engineering	2	2	0	0	3	0		
Math	0	1	0	0	1	0		
Subtotal	**15**	**23**	**25**	**14**	**25**	**19**	n.a.	n.a.

KU-Lawrence

	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	23	33	30	30	25	40	60%	74%
Engineering	0	0	1	4	1	0	n.a.	n.a.
Math	0	0	1	3	0	0	n.a.	n.a.
Subtotal	**23**	**33**	**32**	**37**	**26**	**40**	54%	74%

WSU

	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	1	2	2	5	3	2		
Engineering	1	2	0	1	2	2		
Math	0	0	2	0	0	1		
Subtotal	**2**	**4**	**4**	**6**	**5**	**5**	n.a.	n.a.

KSU, KU, WSU COMBINED

	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	37	55	57	49	49	61	24%	65%
Engineering	3	4	1	5	6	2	n.a.	n.a.
Math	0	1	3	3	1	1	n.a.	n.a.
TOTAL	**40**	**60**	**61**	**57**	**56**	**64**	14%	60%

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

Ph.D. DEGREES: MINORITIES

KSU*

	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science					6	6		
Engineering	0	0	1	2	6	4		
Math					0	0		
Subtotal	**0**	**0**	**1**	**2**	**12**	**10**	n.a.	n.a.

KU-Lawrence

	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	1	1	6	1	8	6		
Engineering	0	1	1	1	1	0		
Math	0	0	0	1	0	0		
Subtotal	**1**	**2**	**7**	**3**	**9**	**6**	n.a.	n.a.

WSU

	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	0	0	1	2	0	0		
Engineering	0	0	3	4	5	3		
Math	0	0	0	0	0	0		
Subtotal	**0**	**0**	**4**	**6**	**5**	**3**	n.a.	n.a.

KSU, KU and WSU COMBINED

	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	1	1	7	3	14	12		
Engineering	0	1	5	7	12	7		
Math	0	0	0	1	0	0		
TOTAL	**1**	**2**	**12**	**11**	**26**	**19**	n.a.	n.a.

*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 percent change.

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

SCIENCE	1994 KSU	KU	WSU	TOTAL	1995 KSU	KU	WSU	TOTAL	1996 KSU	KU	WSU	TOTAL	1995-1996 % Change	1991-1996 % Change
Male	61	43	4	**108**	57	72	1	**130**	65	52	2	**119**	-8%	-9%
Female	14	30	5	**49**	21	25	3	**49**	19	40	2	**61**	24%	-65%
TOTAL	**75**	**73**	**9**	**157**	**78**	**97**	**4**	**179**	**84**	**92**	**4**	**180**	1%	-23%
% Female	**19%**	**41%**	**56%**	**31%**	**27%**	**26%**	**75%**	**27%**	**23%**	**43%**	**50%**	**34%**		
Caucasian	*	40	4	**44**	39	46	4	**89**	41	32	3	**76**	-15%	*
African Amer.		0	0	**0**	1	0	0	**1**	2	2	0	**4**	n.a.	
Hispanic		0	0	**0**	0	2	0	**2**	3	0	0	**3**	n.a.	
Asian/Pac. Isl.		1	2	**3**	5	3	0	**8**	1	2	0	**3**	n.a.	
Am.Ind/Alaskan		0	0	**0**	0	3	0	**3**	0	2	0	**2**	n.a.	
Nonresident Alien		30	3	**33**	33	35	0	**68**	37	39	1	**77**	13%	
Not Reported		2	0	**2**	0	11	0	**11**	0	15	0	**15**	n.a.	
% Minority**		**2%**	**33%**	**6%**	**13%**	**15%**	**0%**	**14%**	**13%**	**16%**	**0%**	**14%**		

MATH	1994 KSU	KU	WSU	TOTAL	1995 KSU	KU	WSU	TOTAL	1996 KSU	KU	WSU	TOTAL	1995-1996 % Change	1991-1996 % Change
Male	8	2	2	**12**	2	2	1	**5**	5	1	2	**8**		
Female	0	3	0	**3**	2	0	0	**2**	0	0	1	**1**		
TOTAL	**8**	**5**	**2**	**15**	**4**	**2**	**1**	**7**	**5**	**1**	**3**	**9**	n.a.	n.a.
% Female	**0%**	**60%**	**0%**	**20%**	**50%**	**0%**	**0%**	**29%**	**0%**	**0%**	**33%**	**11%**		
Caucasian	*	2	0	**2**	13	1	0	**14**	2	0	0	**2**		*
African Amer.		0	0	**0**	0	0	0	**0**	0	0	0	**0**		
Hispanic		0	0	**0**	1	0	0	**1**	0	0	0	**0**		
Asian/Pac. Isl.		0	0	**0**	0	0	0	**0**	0	0	0	**0**		
Am.Ind/Alaskan		1	0	**1**	0	0	0	**0**	0	0	0	**0**		
Nonresident Alien		2	2	**4**	3	1	1	**5**	3	1	3	**7**		
Not Reported		0	0	**0**	0	0	0	**0**	0	0	0	**0**	n.a.	n.a.
% Minority**		**33%**	**0%**	**33%**	**7%**	**0%**	**0%**	**7%**	**0%**	***	***	**0%**		

ENGINEERING	1994 KSU	KU	WSU	TOTAL	1995 KSU	KU	WSU	TOTAL	1996 KSU	KU	WSU	TOTAL	1995-1996 % Change	1991-1996 % Change
Male	14	15	12	**41**	21	13	13	**47**	21	15	14	**50**	6%	-67%
Female	0	4	1	**5**	3	1	2	**6**	0	0	2	**2**	n.a.	n.a.
TOTAL	**14**	**19**	**13**	**46**	**24**	**14**	**15**	**53**	**21**	**15**	**16**	**52**	-2%	-58%
% Female	**0%**	**21%**	**8%**	**11%**	**13%**	**7%**	**13%**	**11%**	**0%**	**0%**	**13%**	**4%**		
Caucasian	2	10	4	**16**	6	5	4	**15**	2	6	6	**14**	n.a.	n.a.
African Amer.	0	0	0	**0**	0	0	0	**0**	0	0	1	**1**	n.a.	n.a.
Hispanic	0	0	1	**1**	0	0	2	**2**	0	0	0	**0**	n.a.	n.a.
Asian/Pac. Isl.	2	1	3	**6**	6	1	3	**10**	4	0	2	**6**	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	10	10	5	**25**	12	8	6	**26**	15	7	7	**29**	12%	-38%
Not Reported	0	1	0	**1**	0	0	0	**0**	0	2	0	**2**	n.a.	n.a.
% Minority**	**50%**	**9%**	**50%**	**30%**	**50%**	**17%**	**56%**	**44%**	**67%**	**0%**	**33%**	**33%**		

SCIENCE, MATH, & ENGINEERING	1994 KSU	KU	WSU	TOTAL	1995 KSU	KU	WSU	TOTAL	1996 KSU	KU	WSU	TOTAL	1995-1996 % Change	1991-1996 % Change
Male	83	60	18	**161**	80	87	15	**182**	91	68	18	**177**	-3%	-25%
Female	14	37	6	**57**	26	26	5	**57**	19	40	5	**64**	12%	-60%
TOTAL	**97**	**97**	**24**	**218**	**106**	**113**	**20**	**239**	**110**	**108**	**23**	**241**	1%	-32%
% Female	**14%**	**38%**	**25%**	**26%**	**25%**	**23%**	**25%**	**24%**	**17%**	**37%**	**22%**	**27%**		
Caucasian	*	52	8	**60**	58	52	8	**118**	45	38	9	**92**	-22%	*
African Amer.		0	0	**0**	1	0	0	**1**	2	2	1	**5**	n.a.	
Hispanic		0	1	**1**	1	2	2	**5**	3	0	0	**3**	n.a.	
Asian/Pac. Isl.		2	5	**7**	11	4	3	**18**	5	2	2	**9**	n.a.	
Am.Ind/Alaskan		1	0	**1**	0	3	0	**3**	0	2	0	**2**	n.a.	
Nonresident Alien		42	10	**52**	48	44	7	**99**	55	47	11	**113**	14%	
Not Reported		3	0	**3**	0	11	0	**11**	0	17	0	**17**	n.a.	
% Minority**		**5%**	**43%**	**13%**	**18%**	**15%**	**38%**	**19%**	**18%**	**14%**	**25%**	**17%**		

* 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

	1991*			1992				1993				1994				1995			
SCIENCE	**KSU**	**KU***	**WSU***	**TOTAL**	**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**	57	72	1	**130**
Female	13	23	1	**37**	20	33	2	**55**	25	30	2	**57**	14	30	5	**49**	21	25	3	**49**
TOTAL	**65**	**76**	**5**	**146**	**94**	**89**	**5**	**188**	**70**	**69**	**5**	**144**	**75**	**73**	**9**	**157**	**78**	**97**	**4**	**179**
% Female	**20%**	**30%**	**20%**	**25%**	**21%**	**37%**	**40%**	**29%**	**36%**	**43%**	**40%**	**40%**	**19%**	**41%**	**56%**	**31%**	**27%**	**26%**	**75%**	**27%**
Caucasian	*	59	5	**64**	*	60	4	**64**	*	44	3	**47**	*	40	4	**44**	39	46	4	**89**
African Amer.		1	0	**1**		1	0	**1**		1	1	**2**		0	0	**0**	1	0	0	**1**
Hispanic		0	0	**0**		0	0	**0**		1	0	**1**		0	0	**0**	0	2	0	**2**
Asian/Pac. Isl.		0	0	**0**		0	0	**0**		4	0	**4**		1	2	**3**	5	3	0	**8**
Am.Ind/Alaskan		0	0	**0**		0	0	**0**		0	0	**0**		0	0	**0**	0	3	0	**3**
Nonresident Alien		16	0	**16**		27	1	**28**		17	1	**18**		30	3	**33**	33	35	0	**68**
Not Reported		0	0	**0**		1	0	**1**		2	0	**2**		2	0	**2**	0	11	0	**11**
% Minority**		**2%**	**0%**	**2%**		**2%**	**0%**	**2%**		**12%**	**25%**	**13%**		**2%**	**33%**	**6%**	**13%**	**15%**	**0%**	**14%**

	1991			1992				1993				1994				1995			
MATH	**KSU**	**KU**	**WSU**	**TOTAL**	**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**	2	2	1	**5**
Female	0	0	0	**0**	1	0	0	**1**	0	1	2	**3**	0	3	0	**3**	2	0	0	**2**
TOTAL	**2**	**1**	**0**	**3**	**3**	**5**	**1**	**9**	**4**	**1**	**2**	**7**	**8**	**5**	**2**	**15**	**4**	**2**	**1**	**7**
% Female	**0%**	**0%**	**ERR**	**0%**	**33%**	**0%**	**0%**	**11%**	**0%**	**100%**	**100%**	**43%**	**0%**	**60%**	**0%**	**20%**	**50%**	**0%**	**0%**	**29%**
Caucasian	*	1	0	**1**	*	3	1	**4**	*	0	1	**1**	*	2	0	**2**	13	1	0	**14**
African Amer.		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**		0	0	**0**	1	0	0	**1**
Asian/Pac. Isl.		0	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	**0**		1	0	**1**	0	0	0	**0**
Nonresident Alien		0	0	**0**		2	0	**2**		1	1	**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	**0**
% Minority		**0%**	**0%**	**0%**		**0%**	**0%**	**0%**		**0%**	**0%**	**0%**		**33%**	**0%**	**33%**	**7%**	**0%**	**0%**	**7%**

	1991				1992				1993				1994				1995			
ENGINEERING	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**
Male	11	16	3	**30**	12	18	5	**35**	13	20	12	**45**	14	15	12	**41**	21	13	13	**47**
Female	2	0	1	**3**	2	0	2	**4**	0	1	0	**1**	0	4	1	**5**	3	1	2	**6**
TOTAL	**13**	**16**	**4**	**33**	**14**	**18**	**7**	**39**	**13**	**21**	**12**	**46**	**14**	**19**	**13**	**46**	**24**	**14**	**15**	**53**
% Female	**15%**	**0%**	**25%**	**9%**	**14%**	**0%**	**29%**	**10%**	**0%**	**5%**	**0%**	**2%**	**0%**	**21%**	**8%**	**11%**	**13%**	**7%**	**13%**	**11%**
Caucasian	2	8	2	**12**	3	7	1	**11**	2	11	5	**18**	2	10	4	**16**	6	5	4	**15**
African Amer.	0	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	**1**	0	0	1	**1**	0	0	2	**2**
Asian/Pac. Isl.	0	0	0	**0**	0	1	0	**1**	1	0	3	**4**	2	1	3	**6**	6	1	3	**10**
Am.Ind/Alaskan	0	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	9	4	**23**	10	10	5	**25**	12	8	6	**26**
Not Reported	0	0	0	**0**	0	0	0	**0**	0	0	0	**0**	0	1	0	**1**	0	0	0	**0**
% Minority	**0%**	**0%**	**0%**	**0%**	**0%**	**13%**	**0%**	**8%**	**33%**	**8%**	**38%**	**22%**	**50%**	**9%**	**50%**	**30%**	**50%**	**17%**	**56%**	**44%**

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

KSU	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	113	147	143	175	151	153	1%	35%
Engineering	64	70	67	76	114	111	-3%	73%
Math	2	7	4	9	4	13	n.a.	n.a.
Subtotal	**179**	**224**	**214**	**260**	**269**	**277**	3%	55%

KU-Lawrence	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	129	143	119	144	142	138	-3%	7%
Engineering	94	112	116	95	118	136	15%	45%
Math	12	14	6	12	9	6	n.a.	n.a.
Subtotal	**235**	**269**	**241**	**251**	**269**	**280**	4%	19%

WSU	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	91	78	164	190	194	207	7%	127%
Engineering	53	48	48	78	87	100	15%	89%
Math	1	2	8	8	9	5	n.a.	n.a.
Subtotal	**145**	**128**	**220**	**276**	**290**	**312**	8%	115%

KU, KSU, AND WSU COMBINED	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	333	368	426	509	487	498	2%	50%
Engineering	211	230	231	249	319	347	9%	64%
Math	15	23	18	29	22	24	9%	n.a.
TOTAL	**559**	**621**	**675**	**787**	**828**	**869**	5%	55%

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

MASTERS DEGREES EARNED BY WOMEN

KSU

	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	47	59	62	75	67	61	-9%	30%
Engineering	7	6	7	9	24	17	-29%	n.a.
Math	0	1	3	6	2	5	n.a.	n.a.
Subtotal	**54**	**66**	**72**	**90**	**93**	**83**	-11%	54%

KU-Lawrence

	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	64	59	60	74	73	61	-16%	-5%
Engineering	7	17	16	12	15	29	n.a.	n.a.
Math	6	5	2	4	4	3	n.a.	n.a.
Subtotal	**77**	**81**	**78**	**90**	**92**	**93**	1%	21%

WSU

	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	73	52	132	138	144	148	3%	103%
Engineering	6	3	2	4	16	7	n.a.	n.a.
Math	0	0	1	5	3	3	n.a.	n.a.
Subtotal	**79**	**55**	**135**	**147**	**163**	**158**	-3%	100%

KU, KSU, AND WSU COMBINED

	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	184	170	254	287	284	270	-5%	47%
Engineering	20	26	25	25	55	53	-4%	165%
Math	6	6	6	15	9	11	n.a.	n.a.
TOTAL	**210**	**202**	**285**	**327**	**348**	**334**	-4%	59%

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

MASTERS DEGREES: MINORITIES

KSU*	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science					2	9		
Engineering	2	3	1	1	10	5		
Math					0	1		
Subtotal	**2**	**3**	**1**	**1**	**12**	**15**	n.a.	n.a.

KU-Lawrence	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	4	3	6	7	4	6		
Engineering	6	1	5	4	2	4		
Math	0	0	0	0	1	1		
Subtotal	**10**	**4**	**11**	**11**	**7**	**11**	n.a.	n.a.

WSU	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	1	5	14	11	14	21		
Engineering	3	3	7	6	3	10		
Math	0	0	1	0	1	1		
Subtotal	**4**	**8**	**22**	**17**	**18**	**32**	n.a.	n.a.

KSU, KU, AND WSU COMBINED	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	5	8	20	18	20	36	80%	*
Engineering	11	7	13	11	15	19	n.a.	n.a.
Math	0	0	1	0	2	3	n.a.	n.a.
TOTAL	**16**	**15**	**34**	**29**	**37**	**58**	57%	*

*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 percent change.

SEM BACHELOR DEGREES

KSU	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	571	618	721	788	745	675	-9%	18%
Engineering	352	429	416	403	387	397	3%	13%
Math	12	19	7	12	15	8	n.a.	n.a.
Subtotal	**935**	**1,066**	**1,144**	**1,203**	**1,147**	**1,080**	-6%	16%

KU-Lawrence	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	894	1,037	1,078	1,091	1,096	1,079	-2%	21%
Engineering	283	239	295	311	293	265	-10%	-6%
Math	33	26	26	31	18	23	28%	-30%
Subtotal	**1,210**	**1,302**	**1,399**	**1,433**	**1,407**	**1,367**	-3%	13%

WSU	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	421	456	333	375	399	412	3%	-2%
Engineering	143	131	147	182	169	194	15%	36%
Math	14	14	16	12	18	22	22%	n.a.
Subtotal	**578**	**601**	**496**	**569**	**586**	**628**	7%	9%

KSU, KU, AND WSU COMBINED	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	1,886	2,111	2,132	2,254	2,240	2,166	-3%	15%
Engineering	778	799	858	896	849	856	1%	10%
Math	59	59	49	55	51	53	4%	-10%
TOTAL	**2,723**	**2,969**	**3,039**	**3,205**	**3,140**	**3,075**	-2%	13%

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

BACHELOR DEGREES EARNED BY WOMEN

KSU	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	223	248	338	343	296	293	-1%	31%
Engineering	44	56	55	53	50	51	2%	16%
Math	4	7	6	5	3	5	n.a.	n.a.
Subtotal	**271**	**311**	**399**	**401**	**349**	**349**	0%	29%

KU-Lawrence	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	459	516	555	556	579	573	-1%	25%
Engineering	34	37	40	42	60	46	-23%	35%
Math	12	10	9	9	5	6	n.a.	n.a.
Subtotal	**505**	**563**	**604**	**607**	**644**	**625**	-3%	24%

WSU	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	312	325	206	226	238	256	8%	-18%
Engineering	15	14	17	19	21	12	n.a.	n.a.
Math	8	4	9	4	8	7	n.a.	n.a.
Subtotal	**335**	**343**	**232**	**249**	**267**	**275**	3%	-18%

KSU, KU, AND WSU COMBINED	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	994	1089	1099	1125	1113	1122	1%	13%
Engineering	93	107	112	114	131	109	-17%	17%
Math	24	21	24	18	16	18	n.a.	n.a.
TOTAL	**1,111**	**1,217**	**1,235**	**1,257**	**1,260**	**1,249**	-1%	12%

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

BACHELOR DEGREES: MINORITIES

KSU*	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science					37	48	30%	*
Engineering	19	21	21	24	34	17	n.a.	n.a.
Math					3	1	n.a.	n.a.
Subtotal	**19**	**21**	**21**	**24**	**74**	**66**	-11%	*

KU-Lawrence	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	49	73	57	92	113	116	3%	137%
Engineering	21	21	18	20	13	26	100%	24%
Math	2	1	2	0	1	5	n.a.	n.a.
Subtotal	**72**	**95**	**77**	**112**	**127**	**147**	16%	104%

WSU	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	36	30	36	55	47	56	19%	56%
Engineering	20	24	17	24	19	30	58%	50%
Math	0	2	3	3	2	12	n.a.	n.a.
Subtotal	**56**	**56**	**56**	**82**	**68**	**98**	44%	75%

KSU, KU AND WSU COMBINED	1991	1992	1993	1994	1995	1996	1995-1996 % Change	1991-1996 % Change
Science	85	103	93	147	197	220	12%	*
Engineering	60	66	56	68	66	73	11%	22%
Math	2	3	5	3	6	18	n.a.	n.a.
TOTAL	**147**	**172**	**154**	**218**	**269**	**311**	16%	*

*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 percent change.

APPENDIX E

NSF Grant Activity

NSF GRANT ACTIVITY: PERCENT CHANGE

Funded plus Not Funded:

			AMOUNT			'94 to 95	'91 to 95
	1991	1992	1993*	1994	1995*	% Change	% Change
Science	$26,495,957	$34,262,102	$21,425,538	$34,210,388	$37,908,632	11%	43%
Math	$3,156,013	$5,956,317	$1,589,277	$2,361,476	$2,223,516	-6%	-30%
Engineering	$4,981,159	$9,700,067	$14,476,516	$13,738,848	$18,999,378	38%	281%
TOTAL	**$34,633,129**	**$49,918,486**	**$37,491,331**	**$50,310,712**	**$59,131,526**	18%	71%
w/o NSF EPSCoR			$33,051,331		$56,075,126	11%	62%

			NUMBER			'94 to 95	'91 to 95
	1991	1992	1993	1994	1995	% Change	% Change
Science	141	164	133	175	130	-26%	-8%
Math	33	45	20	31	17	-45%	-48%
Engineering	53	61	71	79	63	-20%	19%
TOTAL	**227**	**270**	**224**	**285**	**210**	-26%	-7%

Funded:

			AMOUNT			'94 to 95	'91 to 95
	1991	1992	1993*	1994	1995*	% Change	% Change
Science	$6,312,926	$6,151,310	$5,075,751	$9,542,850	$9,852,951	3%	56%
Math	$251,974	$979,547	$739,258	$522,730	$380,016	-27%	51%
Engineering	$480,385	$689,266	$5,136,757	$1,292,677	$4,485,410	247%	834%
TOTAL	**$7,045,285**	**$7,820,123**	**$10,951,766**	**$11,358,257**	**$14,718,377**	30%	109%
w/o NSF EPSCoR			$6,511,766		$11,661,977	3%	66%

			NUMBER			'94 to 95	'91 to 95
	1991	1992	1993	1994	1995	% Change	% Change
Science	50	44	43	69	68	-1%	36%
Math	7	12	9	9	7	-22%	0%
Engineering	8	13	9	17	31	82%	288%
TOTAL	**65**	**69**	**61**	**95**	**106**	12%	63%

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

NSF GRANTS AWARDED: PERCENT CHANGE

KSU	1991	1992	1993	1994	1995	1991-1995 % Change
Science	$2,907,520	$3,370,874	$1,889,133	$6,184,489	$3,767,038	30%
Engineering	$103,901	$425,544	$167,096	$597,129	$632,701	509%
Math	$73,445	$135,134	$40,668	$219,972	$183,900	150%
TOTAL	**$3,084,866**	**$3,931,552**	**$2,096,897**	**$7,001,590**	**$4,583,639**	49%

KU	1991	1992	1993*	1994	1995*	% Change
Science	$3,345,750	$2,682,032	$2,806,886	$2,798,070	$5,294,973	58%
Engineering	$376,484	$24,510	$4,859,208	$685,043	$3,659,150	872%
Math	$111,775	$700,766	$525,478	$151,421	$61,627	-45%
TOTAL	**$3,834,009**	**$3,407,308**	**$8,191,572**	**$3,634,534**	**$9,015,750**	135%
w/o NSF EPSCoR			**$3,751,572**		**$5,959,350**	55%

WSU	1991	1992	1993	1994	1995	% Change
Science	$59,656	$98,404	$379,732	$560,291	$790,940	1226%
Engineering**	$0	$239,212	$110,453	$10,505	$193,559	-19%
Math	$66,754	$143,647	$173,112	$151,337	$134,489	101%
TOTAL	**$126,410**	**$481,263**	**$663,297**	**$722,133**	**$1,118,988**	785%

State Total:	1991	1992	1993*	1994	1995*	% Change
Science	$6,312,926	$6,151,310	$5,075,751	$9,542,850	$9,852,951	56%
Engineering	$480,385	$689,266	$5,136,757	$1,292,677	$4,485,410	834%
Math	$251,974	$979,547	$739,258	$522,730	$380,016	51%
TOTAL	**$7,045,285**	**$7,820,123**	**$10,951,766**	**$11,358,257**	**$14,718,377**	109%
w/o NSF EPSCoR			**$6,511,766**		**$11,661,977**	66%

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

** 1995 compared to 1992: percent change

Note: All KU grant data revised from previous reports.

NUMBER AND DOLLARS FOR NSF GRANTS: FY 1995

	NUMBER				AMOUNT			
SCIENCE	**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
Total	**83**	**88**	**27**	**198**	**$20,988,055**	**$22,291,804**	**$4,481,724**	**$47,761,583**
% Awarded	35%	30%	48%	34%	18%	24%	18%	21%
Avg. $ Awarded					$129,898	$203,653	$60,842	$144,896
MATH	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**
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
Total	**10**	**6**	**8**	**24**	**$955,798**	**$942,676**	**$705,058**	**$2,603,532**
% Awarded	30%	17%	38%	29%	19%	7%	19%	15%
Avg. $ Awarded					$61,300	$61,627	$44,830	$54,288
ENGINEERING	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU***	**WSU**	**TOTAL**
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
Total	**45**	**22**	**27**	**94**	**$8,694,521**	**$11,607,051**	**$3,183,216**	**$23,484,788**
% 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**
OTHER	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**
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
Total	**7**	**4**	**0**	**11**	**$12,243,480**	**$281,308**	**$0**	**$12,524,788**
% Awarded	29%	0%	**	18%	1%	0%	**	1%
Avg. $ Awarded					$52,455	**	**	$52,455
SME TOTAL	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU***	**WSU**	**TOTAL**
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
Total	**138**	**116**	**62**	**316**	**$30,638,374**	**$34,841,531**	**$8,369,998**	**$73,849,903**
% 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**
SMEO TOTAL	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU***	**WSU**	**TOTAL**
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
Total	**145**	**120**	**62**	**327**	**$42,881,854**	**$35,122,839**	**$8,369,998**	**$86,374,691**
% 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

	NUMBER				AMOUNT			
SCIENCE	**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
Total	**74**	**79**	**22**	**175**	**$17,664,150**	**$13,812,306**	**$2,733,932**	**$34,210,388**
% Awarded	47%	33%	36%	39%	35%	20%	20%	28%
Avg. $ Awarded					$176,700	$107,618	$70,036	$138,302
MATH	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**
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
Total	**12**	**12**	**7**	**31**	**$931,593**	**$700,392**	**$729,491**	**$2,361,476**
% Awarded	33%	25%	29%	29%	24%	22%	21%	22%
Avg. $ Awarded					$54,993	$50,474	$75,669	$58,081
ENGINEERING	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**
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
Total	**37**	**22**	**20**	**79**	**$4,580,366**	**$6,712,207**	**$2,446,275**	**$13,738,848**
% Awarded	30%	23%	5%	22%	13%	10%	0.4%	9%
Avg. $ Awarded					$54,284	$137,009	$10,505	$76,040
OTHER	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**
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
Total	**9**	**7**	**0**	**16**	**$7,512,105**	**$1,319,606**	**$0**	**$8,831,711**
% Awarded	56%	29%	**	44%	13%	18%	**	14%
Avg. $ Awarded					$201,820	$119,679	**	$178,351
SME TOTAL	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**
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
Total	**123**	**113**	**49**	**285**	**$23,176,109**	**$21,224,905**	**$5,909,698**	**$50,310,712**
% Awarded	41%	30%	22%	33%	30%	17%	12%	23%
Avg. $ Awarded					$140,032	$106,898	$65,648	$119,561
SMEO TOTAL	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**
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
Total	**132**	**120**	**49**	**301**	**$30,688,214**	**$22,544,511**	**$5,909,698**	**$59,142,423**
% 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

	NUMBER				AMOUNT			
SCIENCE	**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
Total	**60**	**58**	**15**	**133**	**$9,141,424**	**$11,279,643**	**$1,004,471**	**$21,425,538**
% Awarded	30%	31%	47%	32%	21%	25%	38%	24%
Avg. $ Awarded					$104,952	$155,938	$54,247	$118,041
MATH	**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
Total	**7**	**9**	**4**	**20**	**$571,427**	**$829,015**	**$188,835**	**$1,589,277**
% Awarded	29%	44%	75%	45%	7%	63%	92%	47%
Avg. $ Awarded					$20,334	$131,370	$57,704	$82,140
ENGINEERING	**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
Total	**33**	**23**	**15**	**71**	**$4,964,661**	**$8,412,834**	**$1,099,021**	**$14,476,516**
% 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	**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
Total	**18**	**5**	**2**	**25**	**$2,150,151**	**$1,434,139**	**$117,643**	**$3,701,933**
% Awarded	28%	0%	100%	28%	12%	0%	100%	10%
Avg. $ Awarded					$52,743	**	$58,822	$54,480
SME TOTAL	**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
Total	**100**	**90**	**34**	**224**	**$14,677,512**	**$20,521,492**	**$2,292,327**	**$37,491,331**
% 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	**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
Total	**118**	**95**	**36**	**249**	**$16,827,663**	**$21,955,631**	**$2,409,970**	**$41,193,264**
% 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

	NUMBER				AMOUNT			
SCIENCE	**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
Total	**61**	**86**	**17**	**164**	**$10,731,715**	**$20,313,584**	**$3,216,803**	**$34,262,102**
% Awarded	36%	22%	18%	27%	31%	13%	3%	18%
Avg. $ Awarded					$153,222	$141,160	$32,801	$139,803
MATH	**KSU***	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**
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
Total	**19**	**13**	**13**	**45**	**$3,493,174**	**$1,444,801**	**$1,018,342**	**$5,956,317**
% Awarded	26%	38%	15%	27%	4%	49%	14%	16%
Avg. $ Awarded					$27,027	$140,153	$71,824	$81,629
ENGINEERING	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**
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
Total	**32**	**20**	**9**	**61**	**$4,963,657**	**$4,327,053**	**$409,357**	**$9,700,067**
% Awarded	19%	10%	56%	21%	9%	1%	58%	7%
Avg. $ Awarded					$70,924	$12,255	$47,842	$53,020
OTHER	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**
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
Total	**11**	**4**	**1**	**16**	**$4,550,338**	**$487,379**	**$634,098**	**$5,671,815**
% Awarded	55%	25%	0%	44%	29%	2%	0%	24%
Avg. $ Awarded					$221,649	$11,966	**	$191,694
SME TOTAL	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**
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
Total	**112**	**119**	**39**	**270**	**$19,188,546**	**$26,085,438**	**$4,644,502**	**$49,918,486**
% Awarded	29%	22%	26%	26%	20%	13%	10%	16%
Avg. $ Awarded					$119,138	$131,050	$48,126	$113,335
SMEO TOTAL	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**
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
Total	**123**	**123**	**40**	**286**	**$23,738,884**	**$26,572,817**	**$5,278,600**	**$55,590,301**
% 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

	NUMBER				AMOUNT			
SCIENCE	**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
Total	**55**	**75**	**11**	**141**	**$8,231,009**	**$13,771,925**	**$4,493,023**	**$26,495,957**
% Awarded	**42%**	**35%**	**9%**	**35%**	**35%**	**24%**	**1%**	**24%**
Avg. $ Awarded					**$126,414**	**$128,683**	**$59,656**	**$126,259**
MATH	**KSU***	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**
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
Total	**16**	**12**	**5**	**33**	**$1,781,512**	**$1,218,620**	**$155,881**	**$3,156,013**
% Awarded	**19%**	**17%**	**40%**	**21%**	**4%**	**9%**	**43%**	**8%**
Avg. $ Awarded					**$24,482**	**$55,888**	**$33,377**	**$35,996**
ENGINEERING	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**
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
Total	**24**	**22**	**7**	**53**	**$1,837,645**	**$2,020,068**	**$1,123,446**	**$4,981,159**
% Awarded	**17%**	**18%**	**0%**	**15%**	**6%**	**19%**	**0%**	**10%**
Avg. $ Awarded					**$25,975**	**$94,121**	**$0**	**$60,048**
OTHER	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**
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
Total	**12**	**5**	**1**	**18**	**$2,230,187**	**$337,086**	**$92,009**	**$2,659,282**
% Awarded	**33%**	**20%**	**100%**	**33%**	**15%**	**5%**	**100%**	**17%**
Avg. $ Awarded					**$83,310**	**$17,009**	**$92,009**	**$73,709**
SME TOTAL	**KSU**	**KU**	**WSU**	**TOTAL**	**KSU**	**KU**	**WSU**	**TOTAL**
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
Total	**95**	**109**	**23**	**227**	**$11,850,166**	**$17,010,613**	**$5,772,350**	**$34,633,129**
% Awarded	**32%**	**29%**	**13%**	**29%**	**26%**	**23%**	**2%**	**20%**
Avg. $ Awarded					**$102,829**	**$119,813**	**$42,137**	**$108,389**
SMEO TOTAL	**KSU**	**KU**	**WSU**	**NUMBER**	**KSU**	**KU**	**WSU**	**AMOUNT**
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
Total	**107**	**114**	**24**	**245**	**$14,080,353**	**$17,347,699**	**$5,864,359**	**$37,292,411**
% 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					'94 to 95	'91 to 95
	1991	1992	1993*	1994	1995*	% Change	% Change
Science	$111,706,824	$131,572,351	$123,787,996	$145,995,289	$150,008,976	3%	34%
Math	$3,543,497	$3,800,305	$2,807,646	$3,973,673	$3,553,321	-11%	0%
Engineering	$16,065,555	$38,539,672	$47,219,471	$69,750,063	$56,982,355	-18%	255%
TOTAL	**$131,315,876**	**$173,912,328**	**$173,815,113**	**$219,719,025**	**$210,544,652**	-4%	60%
w/o NSF EPSCoR			**$169,375,113**		**$207,488,252**	-6%	58%

	NUMBER					'94 to 95	'91 to 95
	1991	1992	1993	1994	1995	% Change	% Change
Science	853	1,104	1,154	1,155	1,124	-3%	32%
Math	36	56	30	50	36	-28%	0%
Engineering	226	340	325	411	356	-13%	58%
TOTAL	**1,115**	**1,500**	**1,509**	**1,616**	**1,516**	-6%	36%

Funded:

	AMOUNT					'94 to 95	'91 to 95
	1991	1992	1993*	1994	1995*	% Change	% Change
Science	$39,535,620	$44,155,546	$51,294,961	$39,965,024	$37,853,604	-5%	-4%
Math	$401,518	$1,327,862	$762,560	$582,975	$479,152	-18%	19%
Engineer	$6,227,692	$13,341,581	$18,332,179	$12,990,500	$17,911,215	38%	188%
TOTAL	**$46,164,830**	**$58,824,989**	**$70,389,700**	**$53,538,499**	**$56,243,971**	5%	22%
w/o NSF EPSCoR			**$65,949,700**		**$53,187,571**	-1%	15%

	NUMBER					'94 to 95	'91 to 95
	1991	1992	1993	1994	1995	% Change	% Change
Science	394	533	595	588	547	-7%	39%
Math	9	24	10	12	10	-17%	11%
Engineer	121	165	164	157	172	10%	42%
TOTAL	524	722	769	757	729	-4%	39%

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

TOTAL GRANTS AWARDED: PERCENT CHANGE

KSU	1991	1992	1993	1994	1995	1991-1995 % Change
Science	$17,163,755	$23,830,079	$19,780,635	$22,608,826	$16,206,180	-6%
Engineering	$1,496,124	$4,398,110	$3,387,740	$8,305,309	$3,638,842	143%
Math	$73,445	$248,415	$18,168	$219,972	$183,900	150%
TOTAL	**$18,733,324**	**$28,476,604**	**$23,186,543**	**$31,134,107**	**$20,028,922**	7%

KU	1991	1992	1993*	1994	1995*	% Change
Science	$21,394,197	$19,253,576	$30,346,004	$14,961,545	$20,052,621	-6%
Engineering	$3,534,318	$6,812,277	$13,253,504	$4,117,452	$12,818,309	263%
Math	$111,775	$804,589	$571,280	$211,666	$160,763	44%
TOTAL	**$25,040,290**	**$26,870,442**	**$44,170,788**	**$19,290,663**	**$33,031,693**	32%
w/o NSF EPSCoR			**$39,730,788**		**$29,975,293**	20%

WSU	1991	1992	1993	1994	1995	% Change
Science	$977,668	$1,071,891	$1,168,322	$2,394,653	$1,594,803	63%
Engineering	$1,197,250	$2,131,194	$1,690,935	$567,739	$1,454,064	21%
Math	$216,298	$274,858	$173,112	$151,337	$134,489	-38%
TOTAL	**$2,391,216**	**$3,477,943**	**$3,032,369**	**$3,113,729**	**$3,183,356**	33%

STATE TOTAL	1991	1992	1993*	1994	1995*	% Change
Science	$39,535,620	$44,155,546	$51,294,961	$39,965,024	$37,853,604	-4%
Engineering	$6,227,692	$13,341,581	$18,332,179	$12,990,500	$17,911,215	188%
Math	$401,518	$1,327,862	$762,560	$582,975	$479,152	19%
TOTAL	**$46,164,830**	**$58,824,989**	**$70,389,700**	**$53,538,499**	**$56,243,971**	22%
w/o NSF EPSCoR			**$65,949,700**		**$53,187,571**	15%

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

Note: All KU grant data revised from previous reports.

TOTAL GRANTS: FY 1995

	NUMBER				AMOUNT			
SCIENCE*	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
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**
Total	**542**	**494**	**88**	**1,124**	**$80,120,148**	**$61,038,130**	**$8,850,698**	**$150,008,976**
% Awarded	**53.1%**	**44.3%**	**45.5%**	**48.7%**	**20.2%**	**32.9%**	**18.0%**	**25.2%**

	NUMBER				AMOUNT			
MATH	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
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**
Total	**13**	**12**	**11**	**36**	**$1,381,181**	**$1,209,150**	**$962,990**	**$3,553,321**
% Awarded	**23.1%**	**33.3%**	**27.3%**	**27.8%**	**13.3%**	**13.3%**	**14.0%**	**13.5%**

	NUMBER				AMOUNT			
ENGINEERING	KSU	KU	WSU	TOTAL	KSU	KU**	WSU	TOTAL**
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**
Total	**144**	**149**	**63**	**356**	**$19,744,017**	**$27,498,471**	**$9,739,867**	**$56,982,355**
% Awarded	**50.0%**	**43.6%**	**55.6%**	**48.3%**	**18.4%**	**46.6%**	**14.9%**	**31.4%**
			w/o NSF EPSCoR		**Awarded**	**$9,761,909**		**$14,854,815**
					Total	**$24,442,071**		**$53,925,955**
					% Awarded	**39.9%**		**27.5%**

	NUMBER				AMOUNT			
SME TOTAL*	KSU	KU	WSU	TOTAL	KSU	KU**	WSU	TOTAL**
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**
Total	**699**	**655**	**162**	**1,516**	**$101,245,346**	**$89,745,751**	**$19,553,555**	**$210,544,652**
% Awarded	**51.9%**	**44.0%**	**48.1%**	**48.1%**	**19.8%**	**36.8%**	**16.3%**	**26.7%**
			w/o NSF EPSCoR		**Awarded**	**$29,975,293**		**$53,187,571**
					Total	**$86,689,351**		**$207,488,252**
					% Awarded	**34.6%**		**25.6%**

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

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

Note: KU grant data revised from previous reports.

TOTAL GRANTS: FY 1994

	NUMBER				AMOUNT			
SCIENCE*	**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**
Total	**622**	**450**	**83**	**1,155**	**$91,626,163**	**$46,112,867**	**$8,256,259**	**$145,995,289**
% Awarded	**57.6%**	**42.0%**	**49.4%**	**50.9%**	**24.7%**	**32.4%**	**29.0%**	**27.4%**

	NUMBER				AMOUNT			
MATH	**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**
Total	**19**	**22**	**9**	**50**	**$1,833,729**	**$1,194,005**	**$945,939**	**$3,973,673**
% Awarded	**21.1%**	**27.3%**	**22.2%**	**24.0%**	**12.0%**	**17.7%**	**16.0%**	**14.7%**

	NUMBER				AMOUNT			
ENGINEERING	**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**
Total	**187**	**145**	**79**	**411**	**$32,328,058**	**$25,143,650**	**$12,278,355**	**$69,750,063**
% Awarded	**47.1%**	**36.6%**	**20.3%**	**38.2%**	**25.7%**	**16.4%**	**4.6%**	**18.6%**

	NUMBER				AMOUNT			
SME TOTAL*	**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**
Total	**828**	**617**	**171**	**1,616**	**$125,787,950**	**$72,450,522**	**$21,480,553**	**$219,719,025**
% 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.**

Note: KU grant data revised from previous reports.

TOTAL GRANTS: FY 1993

	NUMBER				AMOUNT			
SCIENCE*	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
Total	**634**	**443**	**77**	**1,154**	**$60,192,887**	**$58,471,005**	**$5,124,104**	**$123,787,996**
% Awarded	**54.6%**	**48.3%**	**45.5%**	**51.6%**	**32.9%**	**51.9%**	**22.8%**	**41.4%**

	NUMBER				AMOUNT			
MATH	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
Total	**13**	**12**	**5**	**30**	**$1,552,595**	**$932,698**	**$322,353**	**$2,807,646**
% Awarded	**7.7%**	**50.0%**	**60.0%**	**33.3%**	**1.2%**	**61.3%**	**53.7%**	**27.2%**

	NUMBER				AMOUNT			
ENGINEERING	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
Total	**137**	**125**	**63**	**325**	**$17,285,044**	**$22,383,807**	**$7,550,620**	**$47,219,471**
% 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%**

	NUMBER				AMOUNT			
SME TOTAL*	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
Total	**784**	**580**	**145**	**1,509**	**$79,030,526**	**$81,787,510**	**$12,997,077**	**$173,815,113**
% 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**
Note: KU grant data revised from previous reports.

TOTAL GRANTS: FY 1992

	NUMBER				AMOUNT			
SCIENCE*	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**
Total	**574**	**462**	**68**	**1,104**	**$64,213,935**	**$59,980,781**	**$7,377,635**	**$131,572,351**
% Awarded	**54.5%**	**41.3%**	**42.6%**	**48.3%**	**37.1%**	**32.1%**	**14.5%**	**33.6%**

	NUMBER				AMOUNT			
MATH	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**
Total	**27**	**17**	**12**	**56**	**$1,664,332**	**$1,566,798**	**$569,175**	**$3,800,305**
% Awarded	**37.0%**	**47.1%**	**50.0%**	**42.9%**	**14.9%**	**51.4%**	**48.3%**	**34.9%**

	NUMBER				AMOUNT			
ENGINEERING	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**
Total	**164**	**116**	**60**	**340**	**$18,431,950**	**$13,909,997**	**$6,197,725**	**$38,539,672**
% Awarded	**45.7%**	**52.6%**	**48.3%**	**48.5%**	**23.9%**	**49.0%**	**34.4%**	**34.6%**

	NUMBER				AMOUNT			
SME TOTAL*	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**
Total	**765**	**595**	**140**	**1,500**	**$84,310,217**	**$75,457,576**	**$14,144,535**	**$173,912,328**
% 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.**

Note: KU grant data revised from previous reports.

TOTAL GRANTS: FY 1991

	NUMBER				AMOUNT			
SCIENCE*	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
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**
Total	**412**	**379**	**62**	**853**	**$47,950,927**	**$52,551,504**	**$11,204,393**	**$111,706,824**
% Awarded	**50.5%**	**41.7%**	**45.2%**	**46.2%**	**35.8%**	**40.7%**	**8.7%**	**35.4%**

	NUMBER				AMOUNT			
MATH	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
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**
Total	**12**	**14**	**10**	**36**	**$1,519,927**	**$1,399,318**	**$624,252**	**$3,543,497**
% Awarded	**25.0%**	**14.3%**	**40.0%**	**25.0%**	**4.8%**	**8.0%**	**34.6%**	**11.3%**

	NUMBER				AMOUNT			
ENGINEERING	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
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**
Total	**69**	**110**	**47**	**226**	**$5,303,691**	**$7,351,180**	**$3,410,684**	**$16,065,555**
% Awarded	**50.7%**	**50.0%**	**66.0%**	**53.5%**	**28.2%**	**48.1%**	**35.1%**	**38.8%**

	NUMBER				AMOUNT			
SME TOTAL*	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
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**
Total	**493**	**503**	**119**	**1,115**	**$54,774,545**	**$61,302,002**	**$15,239,329**	**$131,315,876**
% 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.**

Note: KU grant data revised from previous reports.

APPENDIX G

EPSCoR Faculty

Group I

KSU

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

KU

Adams, R.
Arritt, R.
Aube, J.
Benson, D.
Bigelow, D.
Bowman, R.
Bowman-James, K.
Braaten, D.
Busch, D.
Byers, R.
Chu, S.
Cravens, T.
Dorfmeister, J.
Engler, T.
Gegenheimer, P.
Givens, R.
Heppert, J.
Johnson, C.
Kuczera, K.
Larive, C.
Leimkuhler, B.
Lerner, D.
Lunte, C.
Lunte, S.
Macpherson, G.
Melott, A.
Michaelis, E.
Michaelis, M.
Ralston, J.
Richter, M.
Shandarin, S.
Siahaan, T.
Sophocleous, M.
Southard, M.
Squier, T.
Subramanium, B.
Terwilliger, V.
Wilson, G.
Wong, K.

WSU

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

Group II

KSU
Name (Rank)

Beeman, R. (Prof.)
Bolton, T. (Assoc.)
Borovik, A. (Asst.)
Buszek, K (Asst.)
Collinson, M. (Asst.)
Conrad, G. (Prof.)
Denell, R. (Prof.)
Edgar. J. (Asst.)
Fox, R. (Asst.)
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. (Asst.)
Maata, E. (Prof.)
Meng, H. (Asst.)
Rahman, T. (Prof.)
Reay, N. (Prof.)
Rice, C. (Assoc.)
Riordan, C. (Asst.)
Sherwood, P. (Prof.)
Sidwell, R. (Assoc.)
Sorensen, C. (Prof.)
Stanton, N. (Prof.)
Tordesillas, A. (Asst.)
Zou, Q. (Assoc.)

Asst. = 15
Assoc. = 4
Prof. = 13

Total = 32

KU-Lawrence
Name (Rank)

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

WSU
Name (Rank)

Agarwal, R. (Asst.)
Alexander, D. (Asst.)
Arakere, N. (Asst.)
Brinkman, G. (Instr.)
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. (Asst.)
Rajan, V. (Asst.)
Schmidt, J. (Asst.)
Skinner, S. (Asst.)
Stevenson, W. (Prof.)
Twomey, J. (Asst.)
Wollner, D. (Asst.)

Asst. = 14
Assoc. = 0
Prof. = 6
Other = 1

Total = 21

(KU)
Asst. = 21
Assoc. = 7
Prof. = 11
Other = 1

Total = 40