

THE UNIVERSITY OF KANSAS
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School of Business
Department of Economics
RESEARCH PAPERS

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

prepared for
K*STAR
**Ted Kuwana, Principal Investigator and
Regents Distinguished Professor**

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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. Current assessment revealed several important findings.

- The number of SEM faculty fell slightly in academic year 1995 compared to 1994. The largest decreases were seen at KU, which had a hiring freeze in place to help solve budgetary problems. Unfilled faculty positions may increase teaching loads, decrease the number of graduate students that can be accepted into programs, and decrease the number of grants submitted.
- The number of women and minority SEM faculty continued to be above 1991 levels, but showed little change over 1994 levels.
- The number of assistant professors was lower in 1995 than in 1994 at all three institutions, as was the number of student research assistants. This may have a negative impact upon research and grant productivity.
- Faculty salaries continue to be lower than those paid at peer institutions.
- SEM graduate enrollment was five percent lower than 1994 levels but six percent above 1991 levels. The number of science graduate students fell nine percent below 1994 levels and three percent below 1991 levels.
- Number of women and minorities enrolled in SEM graduate programs declined in 1995.
- Number of graduate students receiving financial support in the form of teaching assistantships or research assistantships was slightly lower than the previous year but, due to decreases in enrollment, the percentage receiving support increased slightly.
- NSF dollars (excluding NSF EPSCoR) awarded to the state continued to increase.

- The number and dollars awarded by all funding sources declined in FY 1995. FY 1995 data are incomplete since some grants were still pending at the time data were collected.

The 1995 data revealed declines in number of assistant professors, student research assistants, and graduate enrollment. While disturbing, these decreases must be put into context. With hiring freezes lifted, the number of faculty will increase and the number of students accepted into graduate programs should also increase. With more faculty hired, number of grants submitted and funded should improve which will also increase the number of student research assistants that can be supported. If the hiring freeze was responsible for the declines seen in the 1995 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

INTRODUCTION

In 1992, Kansas became an 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 (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 fifth annual assessment of SEM research and infrastructure.

SCIENCE, ENGINEERING AND MATH INFRASTRUCTURE

Personnel

The total number of SEM faculty at KSU, KU-Lawrence¹ and WSU has not changed dramatically since 1991 (Figure 1). In 1991, the state had a total of 1,231 SEM faculty and had 1,245 in 1995, an increase of one percent (Table 1). Both KSU and WSU showed little change in number of faculty from 1994 to 1995.² KU showed a three percent decrease from 420 in 1994 to 406 in 1995. This decrease was due to a temporary hiring freeze imposed for budgetary purposes and this decrease brought the state total for 1995 to 1,245, a decrease of one percent over 1994 levels.

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

²Appendix A lists all departments and academic units included in the database.

Figure 2 shows that the number of minority faculty members continued to grow while the number of women faculty held steady in 1995. Table 2 shows that each institution had very small changes from 1994 to 1995 in number of female faculty, and that women were 11 percent of the total SEM faculty at KSU, 17 percent at KU, and 24 percent at WSU. The 186 women SEM faculty comprised 15 percent of the state's SEM faculty. The number of women on the SEM faculty did not change dramatically from 1994 to 1995 (Table 2). The total of 186 decreased by 1 percent over 1994 levels. This slight decrease interrupted the slow but steady increase that had occurred since 1991, but the 1995 total did show a 14 percent increase over 1991 levels.

Minority members of the SEM faculty made up 13 percent of the total SEM faculty in 1995 (Table 3). The total number of minorities increased by three percent from 157 in 1994 to 162 in 1995. The total number of minority SEM faculty was 26 percent greater in 1995 than in 1991. From 1994 to 1995 at KSU, the number of minority faculty increased nine percent, decreased eight percent at KU, and increased eight percent at WSU.

The total percentage of women and minority SEM faculty in the state remained low, but the slow, steady increase in number of minority faculty was encouraging. Hopefully, the 1995 decrease in number of female faculty and the slight decrease in total SEM faculty will be reversed in the future.

Figure 1
Science, Engineering, and Math Faculty

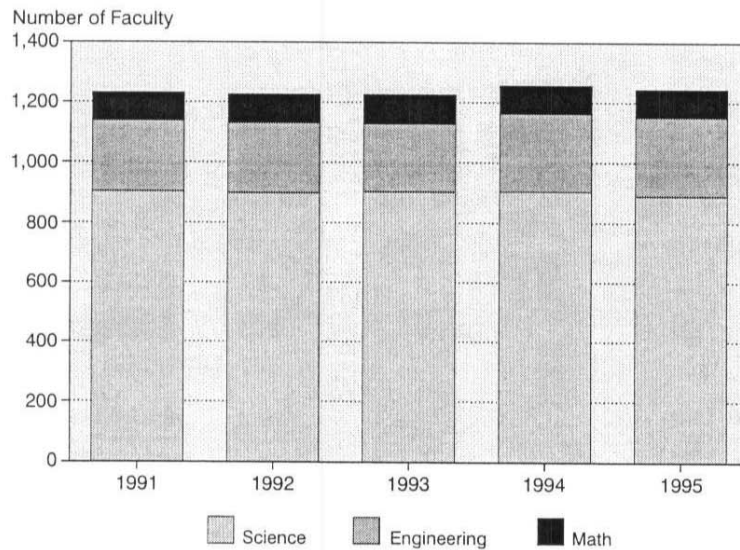
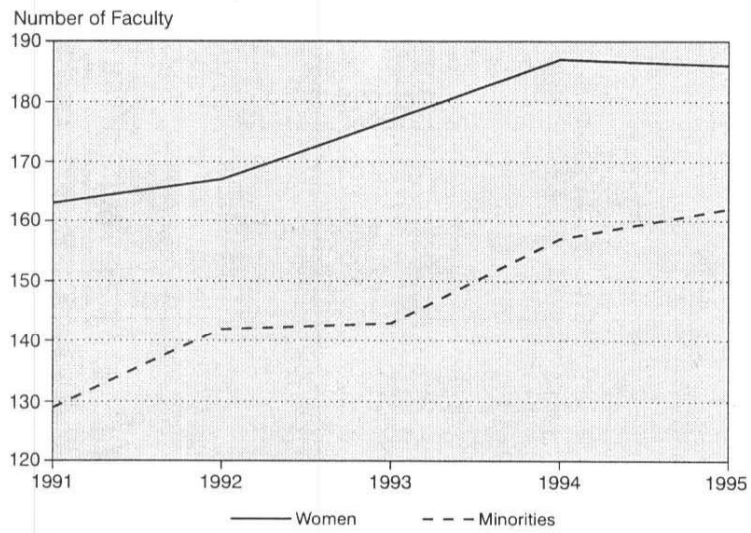


Table 1
NUMBER OF SCIENCE, ENGINEERING AND MATH FACULTY:
KSU, KU AND WSU

	1991	1992	1993	1994	1995	Percent Change:	
						1994-1995	1991-1995
KSU							
Science	479	471	472	482	479	-1%	0%
Engineering	115	111	106	128	130	2%	13%
Math	29	31	33	32	32	0%	10%
<i>Subtotal</i>	623	613	611	642	641	0%	3%
KU-Lawrence							
Science	286	295	300	296	283	-4%	-1%
Engineering	76	76	75	86	87	1%	14%
Math	37	38	40	38	36	-5%	-3%
<i>Subtotal</i>	399	409	415	420	406	-3%	2%
WSU							
Science	138	132	130	126	127	1%	-8%
Engineering	44	46	45	45	46	2%	5%
Math	27	26	25	25	25	0%	-7%
<i>Subtotal</i>	209	204	200	196	198	1%	-5%
STATE							
Science	903	898	902	904	889	-2%	-2%
Engineering	235	233	226	259	263	2%	12%
Math	93	95	98	95	93	-2%	0%
TOTAL	1,231	1,226	1,226	1,258	1,245	-1%	1%

Source: Institutional databases.

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



Source: Institutional databases.

Table 2
NUMBER OF FEMALE FACULTY

	1991	1992	1993	1994	1995	Percent Change:	
						1994-1995	1991-1995
KSU							
Science	54	54	60	64	64	0%	19%
Engineering	4	4	5	6	8	33%	100%
Math	0	0	0	0	0	0%	0%
Total Female	58	58	65	70	72	35%	24%
<i>Total Faculty</i>	623	613	611	642	641	0%	3%
% Female	9%	9%	11%	11%	11%		
KU-Lawrence							
Science	45	53	57	60	58	-3%	29%
Engineering	2	2	4	5	6	20%	200%
Math	3	3	3	3	3	0%	0%
Total Female	50	58	64	68	67	-1%	34%
<i>Total Faculty</i>	399	409	415	420	406	-3%	2%
% Female	13%	14%	15%	16%	17%		
WSU							
Science	52	49	46	47	44	-6%	-15%
Engineering	2	2	2	2	3	50%	50%
Math	1	0	0	0	0	0%	100%
Total Female	55	51	48	49	47	-4%	-15%
<i>Total Faculty</i>	209	204	200	196	198	1%	-5%
% Female	26%	25%	24%	25%	24%		
STATE							
Science	151	156	163	171	166	-3%	10%
Engineering	8	8	11	13	17	31%	113%
Math	4	3	3	3	3	0%	-25%
Total Female	163	167	177	187	186	-1%	14%
<i>Total Faculty</i>	1,231	1,226	1,226	1,258	1,245	-1%	1%
% Female	15%	14%	14%	15%	15%		

Source: Institutional databases.

Table 3
NUMBER OF MINORITY FACULTY

	1991	1992	1993	1994	1995	Percent Change:	
						1994 - 1995	1991-1995
KSU							
Science	36	40	40	39	42	8%	17%
Engineering	16	16	14	22	26	18%	63%
Math	6	8	9	9	8	-11%	33%
Total Minority	58	64	63	70	76	9%	31%
<i>Total Faculty</i>	623	613	611	642	641	0%	3%
% Minority	9%	10%	10%	11%	12%		
KU-Lawrence							
Science	24	25	24	27	24	-11%	0%
Engineering	10	12	12	14	13	-7%	20%
Math	5	6	9	9	9	0%	80%
Total Minority	39	43	45	50	46	-8%	18%
<i>Total Faculty</i>	399	409	415	420	406	-3%	2%
% Minority	10%	11%	11%	12%	11%		
WSU							
Science	15	16	17	15	16	7%	7%
Engineering	10	12	12	14	15	7%	50%
Math	7	7	6	8	9	13%	29%
Total Minority	32	35	35	37	40	8%	25%
<i>Total Faculty</i>	209	204	200	196	198	1%	-5%
% Minority	15%	17%	18%	19%	20%		
STATE							
Science	75	81	81	81	82	1%	9%
Engineering	36	40	38	50	54	8%	50%
Math	18	21	24	26	26	0%	44%
Total Minority	129	142	143	157	162	3%	26%
<i>Total Faculty</i>	1,231	1,226	1,226	1,258	1,245	-1%	1%
% Minority	10%	12%	12%	12%	13%		

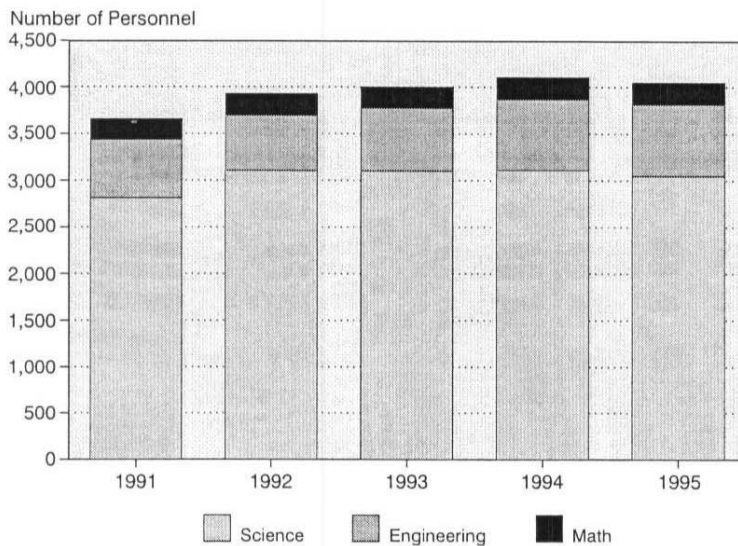
Source: Institutional databases.

A similar trend was seen in total number of SEM personnel. Figure 3 shows no large change in number of personnel from 1994 to 1995, but 1995 levels were 11 percent above 1991 levels (Table 4). While the total number of SEM personnel was lower in 1995 than in 1994, Table 4 shows increases in some areas: number of associate professors, number of post doctoral students, and number of graduate teaching assistants. The increase in number of associate professors is tempered by the decrease in number of assistant professors. Those promoted to the associate level were not replaced by new hires at the assistant level. The number of assistant professors fell below 1991 levels for the first time since data collection began.

A similar drop occurred for the first time in the number of research associates and assistants and student research assistants. The number of post doctoral students and graduate teaching assistants continued to rise. The decrease to below 1993 levels in number of student research assistants is of special concern since these positions reflect the number of graduate students supported in research positions. The 1995 decrease was nine percent below 1994 levels.

Appendix B contains detailed information on the number of faculty and personnel by year and by institution.

Figure 3
Science, Engineering and Math Personnel



Source: Institutional databases.

Table 4
NUMBER OF SEM PERSONNEL:
KSU, KU, AND WSU COMBINED

	1991	1992	1993	1994	1995	Percent Change:	
						1994-1995	1991-1995
Professor	557	558	555	562	556	-1%	0%
Associate Professor	334	322	326	331	355	7%	6%
Assistant Professor	340	346	345	365	334	-8%	-2%
Acad. Staff, Directors & Technical Staff	376	616	514	499	495	-1%	32%
<i>Subtotal:</i>	<i>1,607</i>	<i>1,842</i>	<i>1,740</i>	<i>1,754</i>	<i>1,740</i>	<i>-1%</i>	<i>8%</i>
Research Associates & Assistants	341	352	344	310	293	-5%	-14%
Post Doctoral	45	58	65	52	65	25%	44%
Graduate Teaching Assistants	846	789	868	924	982	6%	16%
Student Research Assistants	817	885	985	1,065	970	-9%	19%
<i>Subtotal:</i>	<i>2,049</i>	<i>2,084</i>	<i>2,262</i>	<i>2,351</i>	<i>2,310</i>	<i>-2%</i>	<i>13%</i>
TOTAL	3,656	3,926	4,002	4,108	4,050	-1%	11%

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 below the average salaries of faculty at peer institutions³ (Table 5). In comparison to last year's data, KU salaries remained at 89 percent of salaries at peer institutions while WSU salaries decreased to 88% in 1995. KSU faculty salaries, rose to 91.5 percent in FY 1995.

Table 5
COMPARISON OF PEER INSTITUTIONS' AVERAGE FACULTY SALARY: FY 1995

	KSU	KU	WSU
Weighted average *	\$45,969	\$51,210	\$45,140
Weighted average of peer institutions	\$50,243	\$57,498	\$51,229
Kansas institutions as % of peer institutions	91.5%	89%	88%

*Includes instructors, assistant, associate, and full professors
Source: Institutional databases.

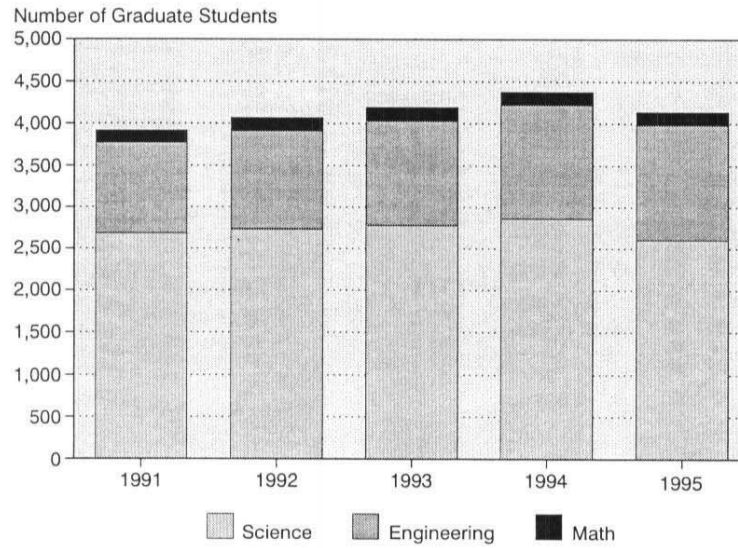
Graduate Enrollment

Graduate enrollment in science, engineering and math decreased from 4,380 in 1994 to 4,140 in 1995 (Figure 4). Compared to 1991 (Table 6), enrollment in 1995 was down slightly in the sciences, up slightly in math, and showed an increase in engineering. The increase in engineering was due to an 11 percent increase at KSU, which offset slight enrollment decreases at KU and WSU (see Appendix C). Enrollment in 1995 showed a nine percent decrease over 1994

³KSU'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 University of Akron, Portland State University, Oakland University, Old Dominion University, and the University of Nevada/Las Vegas..

enrollment in the sciences, while enrollment in engineering and math held steady.

Figure 4
Science, Engineering, and Math Graduate Enrollment



Source: Institutional databases.

Table 6
SEM GRADUATE ENROLLMENT

STATE:	1991	1992	1993	1994	1995	% Change:	
						1994-1995	1991-1995
Science	2,683	2,732	2,779	2,862	2,603	-9%	-3%
Engineering	1,089	1,179	1,251	1,362	1,382	1%	27%
Math	146	158	165	156	155	-1%	6%
TOTAL	3,918	4,069	4,195	4,380	4,140	-5%	6%

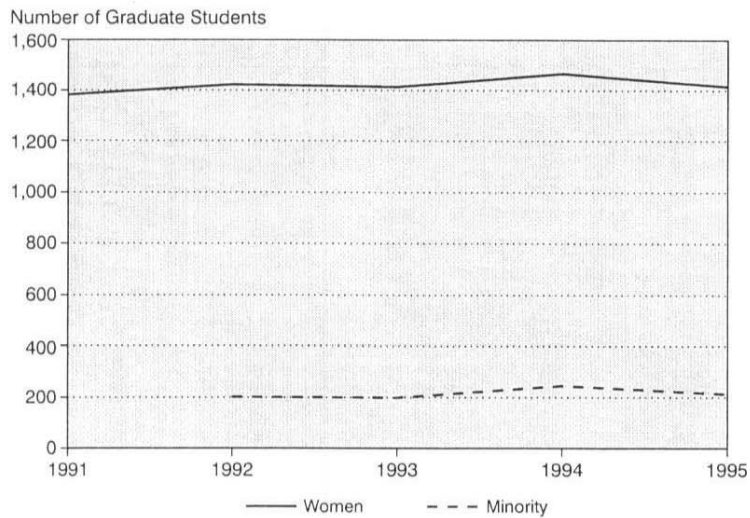
Source: Institutional databases.

Figure 5 shows no dramatic changes occurred in number of women and minority graduate students enrolled in 1995. Table 7 presents number of SEM women graduate students enrolled. In 1995, the number enrolled in the sciences decreased slightly over 1991 levels, while the number enrolled in engineering and math increased. The total number of women enrolled was slightly lower in 1995 than in 1994, with both math and science losing ground. Women comprised 34 percent of the total SEM graduate enrollment. Total SEM graduate enrollment increased six percent from 1991 to 1995, while the number of women enrolled increased two percent.

Table 8 presents similar data for minority graduate enrollment. Number of minority graduate students enrolled in 1995 in the sciences decreased over 1992 levels, while the number enrolled in engineering increased substantially. In 1995, minorities comprised nine percent of the total SEM graduate enrollment. While total SEM graduate enrollment increased six percent from 1992 to 1995, minority enrollment increased by five percent. Compared to 1994, 1995 minority enrollment decreased in the sciences and math, while engineering posted a small gain for an overall decrease of five percent. Appendix C contains detailed information on the number of SEM graduate students enrolled by year and by institution.

Funding for graduate students rose slightly in 1995 (Table 9). Enrollment declined and the number supported decreased, but the number supported decreased less. This resulted in an overall increase in the percent of graduate students receiving financial support. KSU enrollment increased but number funded showed no change. KU's enrollment and number supported declined. WSU supported more students but enrollment declined.

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



Source: Institutional databases.

Table 7
SEM WOMEN GRADUATE ENROLLMENT

STATE:	1991	1992	1993	1994	1995	% Change:	
						1994-1995	1991-1995
Science	1,212	1,222	1,198	1,235	1,179	-5%	-3%
Engineering	126	145	161	179	190	6%	51%
Math	44	56	55	53	47	-11%	7%
Total Women	1,382	1,423	1,414	1,467	1,416	-3%	2%
<i>Total Enroll.</i>	<i>3,918</i>	<i>4,069</i>	<i>4,195</i>	<i>4,380</i>	<i>4,140</i>	<i>-5%</i>	<i>6%</i>
% Women	35%	35%	34%	33%	34%		

Source: Institutional databases.

Table 8
SEM MINORITY GRADUATE ENROLLMENT

STATE	1992	1993	1994	1995	% Change:	
					1994-1995	1992-1995
Science	145	132	160	127	-21%	-12%
Engineering	50	59	76	79	4%	58%
Math	7	8	10	7	-30%	0%
Total Minority	202	199	246	213	-13%	5%
<i>Total Enroll.</i>	<i>4,069</i>	<i>4,195</i>	<i>4,380</i>	<i>4,140</i>	<i>-5%</i>	<i>6%</i>
% Minority	5%	5%	6%	9%		

Source: Institutional databases.

Table 9
POSTGRADUATES* RECEIVING FINANCIAL SUPPORT COMPARED
TO GRADUATE ENROLLMENT

	1991	1992	1993	1994	1995
KSU					
Supported	841	809	961	1,057	1,057
Enrolled	1,216	1,282	1,361	1,442	1,474
% Supported	69%	63%	71%	73%	72%
KU					
Supported	1,003	1,103	1,090	1,039	978
Enrolled	1,702	1,819	1,817	1,880	1,701
% Supported	59%	61%	60%	55%	57%
WSU					
Supported	205	172	211	255	275
Enrolled	1,000	968	1,017	1,058	965
% Supported	21%	18%	21%	24%	28%
State					
Supported	2,049	2,084	2,262	2,351	2,310
Enrolled	3,918	4,069	4,195	4,380	4,140
% Supported	52%	51%	54%	54%	56%

* 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 6 presents the number of science, engineering and math degrees awarded from 1991 to 1995. The total number of degrees awarded showed no change over 1994 levels. From 1991 to 1995, the number of Ph.Ds awarded increased 31 percent, the number of masters' degrees increased 48 percent, and the number of bachelor degrees increased 15 percent (Table 10). The number of Ph.D. and Master degrees awarded in 1995 increased over 1994 levels while number of Bachelor degrees awarded decreased slightly. Table 11 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 6
Science, Engineering, and Math Degrees Awarded

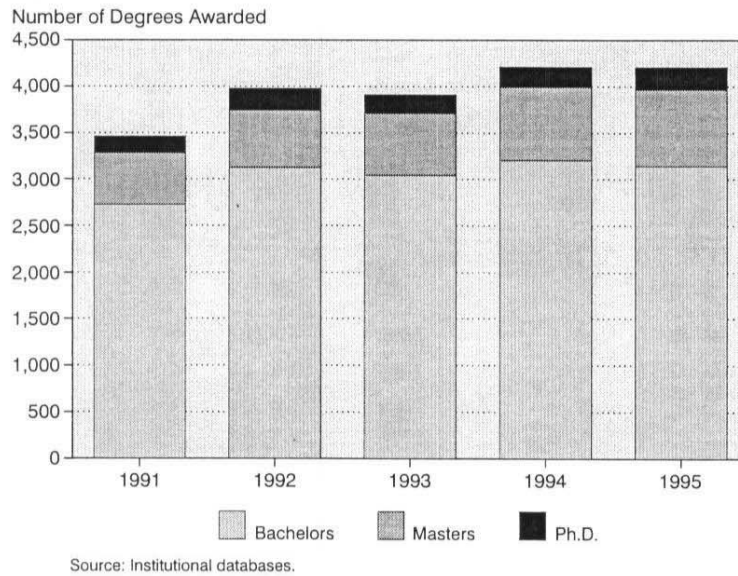
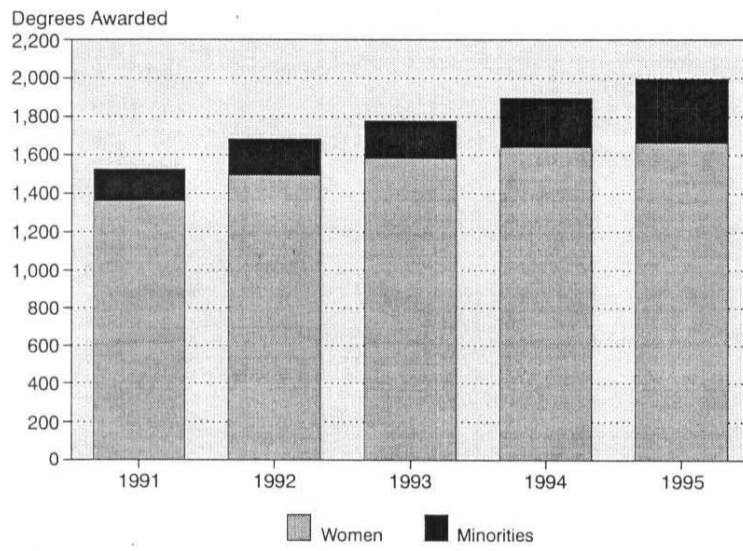


Figure 7 shows the slow but steady increase in number of degrees awarded to women and minorities from 1991 to 1995. While the number of Ph.D. degrees awarded remained small and showed no change from 1994 to 1995, the number of women who earned Ph.D. degrees in 1995 increased 43 percent over 1991 levels (Table 10). The number of minorities earning Ph.D. degrees continued to increase. Appendix D contains detailed information regarding degrees awarded at the three universities.

Figure 7
Degrees Awarded to Women and Minorities



Source: Institutional databases.

Table 10
SEM Degrees Awarded: KSU, KU, and WSU

	1991	1992	1993	1994	1995	% Change:	
						1994-1995	1991-1995
Total Population							
Ph.D.	182	236	197	218	238	9%	31%
Master	559	621	675	787	828	5%	48%
Bachelor	2,723	3,123	3,039	3,205	3,140	-2%	15%
<i>Subtotal</i>	<i>3,464</i>	<i>3,980</i>	<i>3,911</i>	<i>4,210</i>	<i>4,206</i>	<i>0%</i>	<i>21%</i>
Women Only							
Ph.D.	40	60	61	57	56	-2%	40%
Master	210	202	285	327	348	6%	66%
Bachelor	1,111	1,233	1,235	1,257	1,260	0%	13%
<i>Subtotal</i>	<i>1,361</i>	<i>1,495</i>	<i>1,581</i>	<i>1,641</i>	<i>1,664</i>	<i>1%</i>	<i>22%</i>
% Women	39%	38%	40%	39%	40%		
Minorities Only*							
Ph.D.	1	2	11	9	26	*	
Master	16	15	34	29	37		
Bachelor	147	172	154	218	269		
<i>Subtotal</i>	<i>164</i>	<i>189</i>	<i>199</i>	<i>256</i>	<i>332</i>		
% Minorities	5%	5%	5%	6%	8%		

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

Table 11
SEM Ph.D. Degrees Awarded by Institution

	1991	1992	1993	1994	1995	% Change:	
						1994-1995	1991-1995
Total Population							
KSU	80	111	87	97	105	8%	13%
KU	93	112	91	97	113	16%	22%
WSU	9	13	19	24	20	-17%	122%
<i>Subtotal</i>	<i>182</i>	<i>236</i>	<i>197</i>	<i>218</i>	<i>238</i>	<i>9%</i>	<i>31%</i>
Women Only							
KSU	15	23	25	14	25	79%	67%
KU	23	33	32	37	26	-30%	13%
WSU	2	4	4	6	5	-17%	150%
<i>Subtotal</i>	<i>40</i>	<i>60</i>	<i>61</i>	<i>57</i>	<i>56</i>	<i>-2%</i>	<i>40%</i>
% Women	22%	25%	31%	26%	24%		
Minorities Only*							
KSU	*	*	*	*	12		
KU	1	2	7	3	9		
WSU	0	0	4	6	5		
<i>Subtotal</i>	<i>1</i>	<i>2</i>	<i>11</i>	<i>9</i>	<i>26</i>		
% Minorities	1%	1%	6%	4%	11%		

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

SCIENCE, ENGINEERING, AND MATH GRANT ACTIVITY

Grant Database

The guidelines used to compile the grant database were as follows:

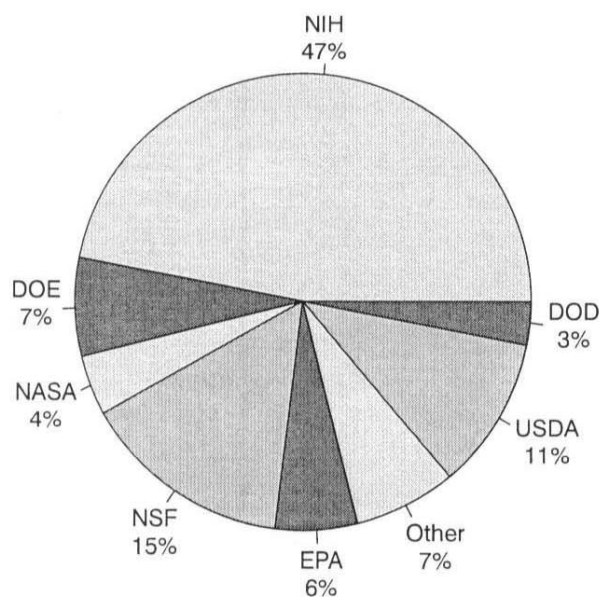
1. Multi-year awards were counted once in the year awarded (e.g., a three-year \$300,000 grant awarded was counted as one \$300,000 grant, not as three \$100,000 grants).
2. Grants with more than one investigator were counted once as the "lead" PI's grant.
3. Grants submitted in one fiscal year but awarded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

NSF Submissions and Awards

Kansas. In FY 1994, 15 percent of **all** federal R&D academic obligations in Kansas came from NSF (Figure 8). Figure 9 shows that the number of grants submitted to NSF by SEM faculty continued to rise in FY 1995, but the number awarded plateaued. However, the number awarded could increase further because some grants were still pending when data were collected. The number awarded in FY 1994 was 113 (Table 12), while the number awarded so far in FY 1995 was 112. Although FY 1995 NSF grant activity data were incomplete, the number awarded increased 56 percent over FY 1991 levels.

While the number awarded to date for FY 1995 was one percent below FY 1994 levels, Figure 10 shows that the total dollars requested increased to an all time high of \$71,469,949. Total dollars awarded decreased from \$11,289,373 in FY 1994 to \$8,939,447 in FY 1995 (Table 12). FY 1995 data are incomplete due to grants still pending, and the totals reported in Table 12 for FY 1995 do not include NSF EPSCoR funding. Dollars awarded in 1995 increased by 49 percent over FY 1991 levels. Dollars awarded in FY 1994 increased 88 percent over FY 1991 levels, or 73 percent when adjusted for inflation. See Appendix E for complete NSF grant data by year and by institution.

Figure 8
Federal R&D Academic Obligations in Kansas, by Agency
FY 1994 Total \$57,070,000



Source: Quantum Research Corporation.

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

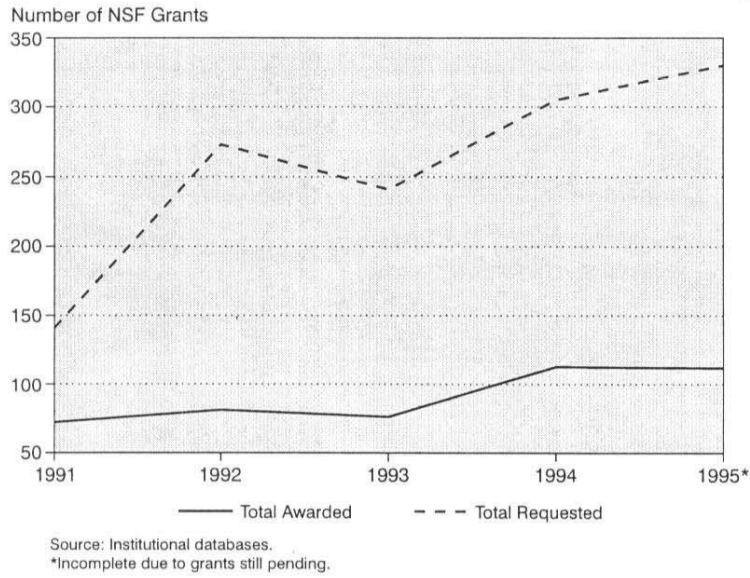


Figure 10
Science, Engineering, and Math NSF Grant Dollars

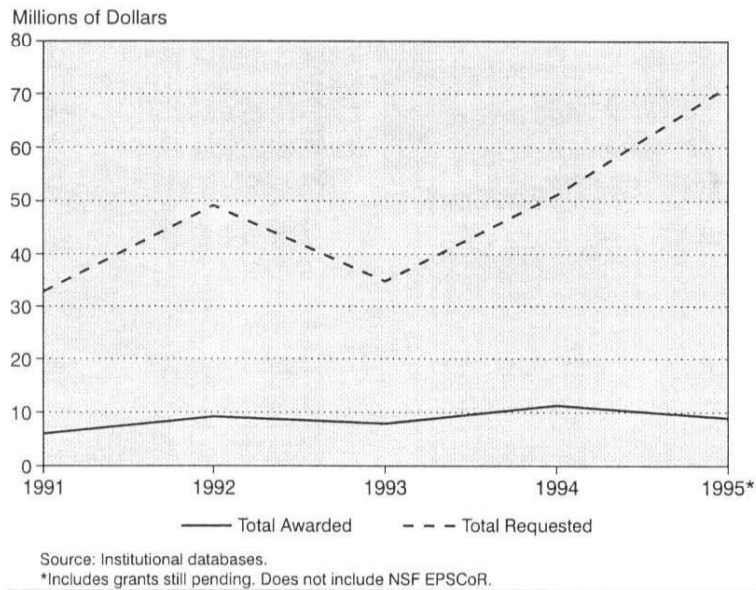


Table 12
NSF Grant Activity: FY 1991 - FY 1995

FY	Total Awarded			Total Requested	
	No.	Dollars	(Adjusted for Inflation)	No.	Dollars
1991	72	\$6,009,723	(\$4,411,136)	141	\$32,853,113
1992	81	\$9,179,127	(\$6,544,717)	273	\$49,144,694
1993	76	\$7,912,298	(\$5,475,310)	241	\$34,816,659
1994	113	\$11,289,373	(\$7,620,327)	305	\$51,153,897
1995*	112	\$8,939,447		330	\$71,469,949

% CHANGE:

FY	Total Awarded			Total Requested	
	No.	Dollars	(Adjusted for Inflation)	No.	Dollars
94-95*	-1%	-21%		8%	40%
91-94	57%	88%	(73%)	116%	56%
91-95*	56%	49%		134%	118%

* Includes grants still pending. NSF EPSCoR funds are **not** included.

Source: Institutional databases.

Nation. While these NSF funding trends are encouraging, Kansas still has not reached competitive levels. Figure 11 shows that the US average for NSF R&D academic obligations was \$32 million in FY 1994, while the level of NSF funding awarded to academic institutions in Kansas (including NSF EPSCoR awarded in 1992) peaked at around \$10 million in 1992 and fell to around \$8.5 in 1994. Even when taking into account the smaller size of the state, Kansas has not competed successfully for its share of NSF R&D dollars. Figure 12 shows that Kansas was well below the U.S. average in dollars awarded per 1000 population.

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. In FY 1995, fewer grants were submitted (Figure 13). While some grants were still pending from FY 1995, the number awarded was below the previous year's level at the time data were collected. Not surprisingly, the total grant dollars requested and awarded also declined in FY 1995 (Figure 14).

Figure 11
NSF R&D Academic Obligations, FY 1980-FY 1994

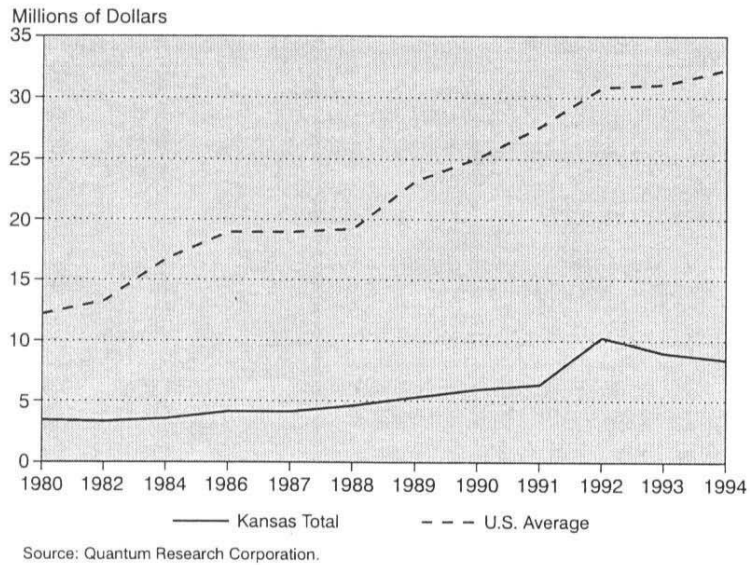


Figure 12
Total NSF R&D Academic Obligations
Per 1000 Population, FY 1980-FY 1994

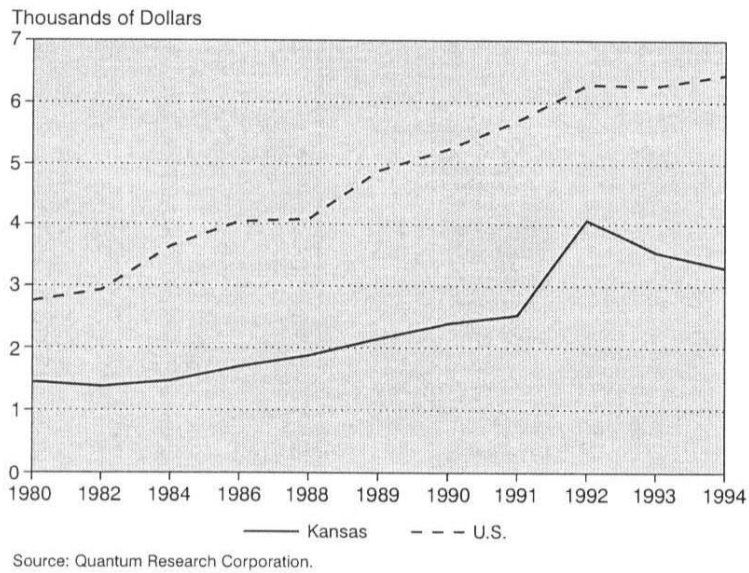
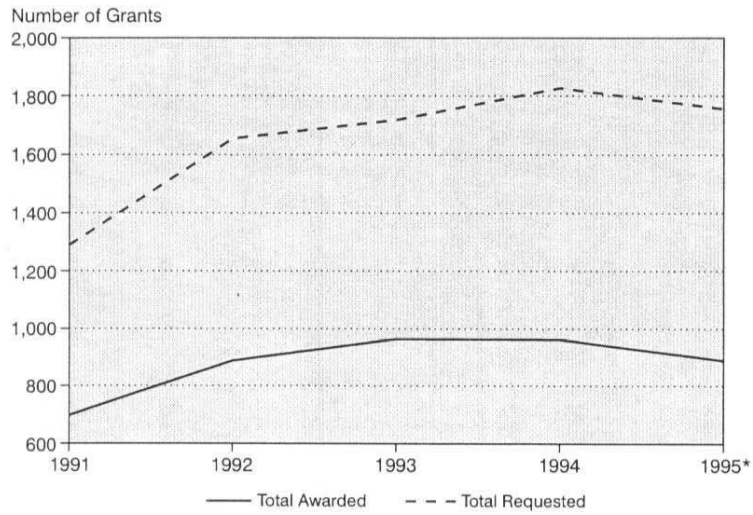
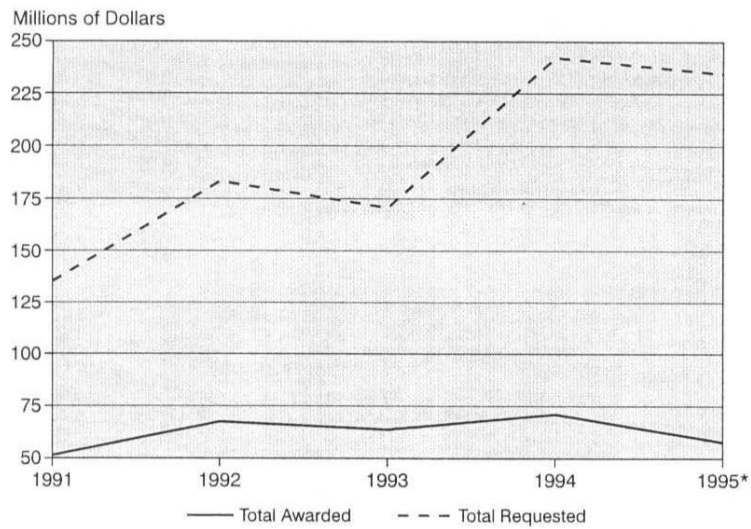


Figure 13
 Number of Science, Engineering, and Math Grants:
 All Agencies



Source: Institutional databases.
 *Includes grants still pending.

Figure 14
 Science, Engineering, and Math Total Grant Dollars Awarded



Source: Institutional databases.
 *Includes grants still pending. Does not include NSF EPSCoR.

Table 13 presents the total number of grants awarded to Kansas SEM faculty. The total number of grants awarded decreased 8 percent from 962 in FY 1994 to 889 in FY 1995. Dollars awarded in FY 1995 decreased 19 percent or approximately \$13 million over FY 1994 levels, with some 1995 grants still pending. However, even with some grants still pending, the number of grants awarded in FY 1995 increased 37 percent over FY 1991 and dollars awarded increased 12 percent. Total dollars awarded increased 38 percent from FY 1991 to 1994, or 27 percent when adjusted for inflation. Appendix F presents detailed grant information by year and by institution.

Table 13
Total Grant Activity

FY	Total Awarded			Total Requested	
	No.	Dollars	(Adjusted for Inflation)	No.	Dollars
1991	697	\$51,385,542	(\$37,716,987)	1,289	\$135,262,380
1992	888	\$67,505,762	(\$48,131,608)	1,655	\$183,299,474
1993	964	\$63,797,151	(\$44,147,628)	1,718	\$170,734,664
1994	962	\$71,074,517	(\$47,975,298)	1,826	\$241,977,778
1995*	889	\$57,757,345		1,755	\$234,339,330

% CHANGE:					
FY	Total Awarded			Total Requested	
	No.	Dollars	(Adjusted for Inflation)	No.	Dollars
94-95*	-8%	-19%		-4%	-3%
91-94	38%	38%	(27%)	42%	79%
91-95*	37%	12%		42%	73%

* Includes grants still pending. Does **not** include NSF EPSCoR.
Source: Institutional databases.

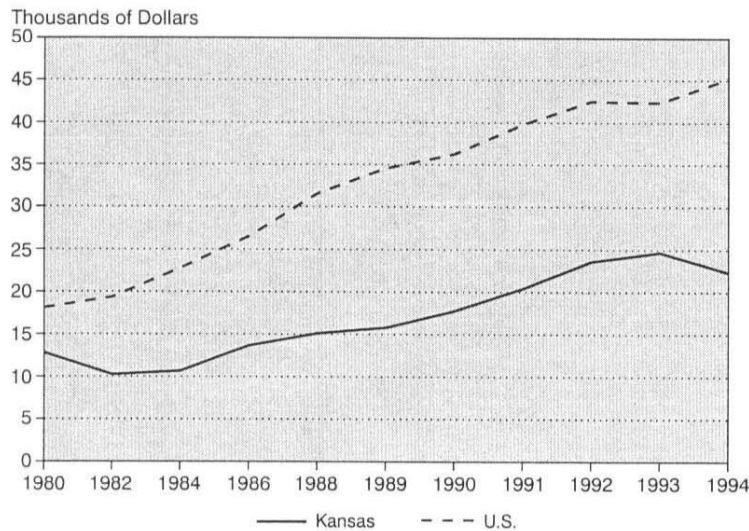
Nation. Table 14 shows Kansas doctoral granting institutions received more federal dollars in FY 1994 than Nebraska, and ranked below all neighboring states except Oklahoma in R&D dollars per capita. When corrected for the smaller population, and hence smaller number of faculty applying for grants, Kansas funding levels were also well below the national average (Figure 15). Figure 16 shows that, in the early 1980s, Kansas lost ground in the competition for federal R&D academic obligations. In recent years, the state's increase paralleled the national trend, but did not close the gap created a decade ago. And in 1994, the gap actually widened as the percent increase in Kansas declined while the U.S. total continued to increase.

Table 14
Federal Obligations for Science and Engineering Research and Development to Universities and Colleges by State

State	FY 1986 (in thousands)	FY 1994 (in thousands)	% Change	1990 Census (in thousands)	\$ per Capita
Colorado	\$108,473	\$283,096	161%	3,294	\$86
Missouri	\$111,289	\$261,041	135%	5,117	\$51
Iowa	\$74,279	\$176,398	137%	2,777	\$64
Oklahoma	\$29,468	\$77,091	162%	3,146	\$25
Kansas	\$33,239	\$72,154	117%	2,478	\$29
Nebraska	\$24,524	\$55,209	125%	1,578	\$35

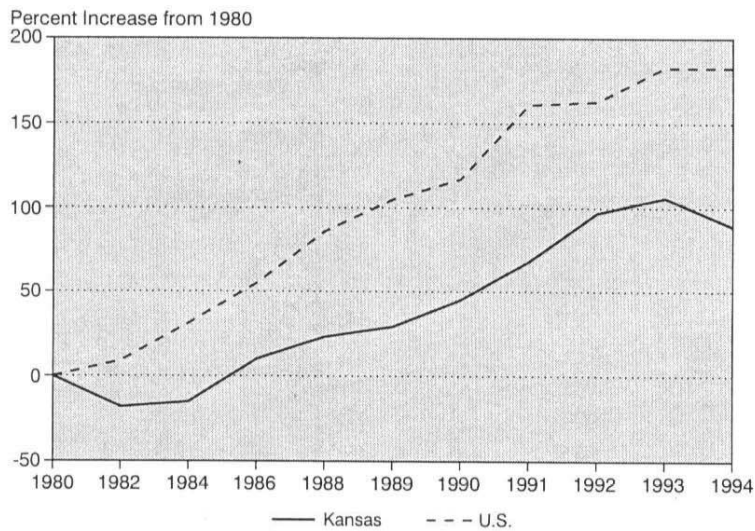
Source: NSF Statistical Reports on Research and Development Funding and Performance. Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1994. (Table B3).

Figure 15
Total Federal R&D Academic Obligations Per 1,000 Population, FY 1980-FY 1994



Source: Quantum Research Corporation.

Figure 16
Percent Increase in Federal R&D Academic Obligations,
FY 1980-FY 1994



Source: Quantum Research Corporation.

Table 15 presents the R&D expenditures at universities in neighboring states in FY 1993. 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 15
R&D Expenditures at Universities by Source of Funds
FY 1994 (Dollars in Thousands)

Neighboring State Institution	Total (rank)	\$ Federal Gov.	State & Local Gov.
U. of Colorado	\$228,067 (24)	\$158,163	\$3,604
U. of Iowa	157,036 (42)	99,536	4,180
Iowa State U.	155,982 (43)	56,439	42,811
U. of Missouri	121,256 (59)	31,299	14,438
Colorado State U.	112,457 (64)	66,464	4,511
U. of Nebraska	102,746 (70)	29,781	36,088
U. of Oklahoma	95,747 (72)	35,266	10,319
U. of Kansas	95,701 (73)	40,816	5,914
Oklahoma State U.	70,808 (100)	20,440	7,909
Kansas State U.	65,696 (103)	21,547	27,101*
Wichita State University	Not included in the listing of the top 200 institutions.		

* In FY 1993, this included \$3.7 million from other Kansas agencies and \$22.1 million in state appropriations for the Agricultural Experimental Station and the Engineering Experimental Station.

Source: NSF Statistical Reports on R&D Funding and Performance. Federal Support to Universities, Colleges, and Nonprofit Institutions. Table B-35.

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 and the group funded by the 1995 renewal will be referred to as Group II. 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, using FY 1994 grant activity as their baseline.

Table 16 presents the grant activity of Group I faculty who received NSF EPSCoR funding during the first funding phase. The data include only those grants where faculty served as the principal investigator and do **not** include NSF EPSCoR awards. Number of proposals submitted has grown steadily and the percentage awarded has been very good for Group I. For FY 1995, the number of grants awarded and the dollars awarded at the time data were collected

was lower than the previous year. However, some grants were still pending so 1995 data were incomplete. The change in dollars awarded from almost \$5.5 million in 1992 to \$9.9 million in 1994 was 83 percent. However, when adjusted for inflation, the dollars awarded to this group from 1992 to 1994 grew 73 percent.

Table 17 presents the same data for Group II. In FY 1994, before the second group was funded by NSF EPSCoR Phase II, this group submitted 185 proposals and 36 percent were funded for approximately \$5.6 million. The same group submitted 225 proposals in FY 1995 and 77 had been funded (with some still pending) at \$6.6 million at the time data were collected.

Table 16
Total Grant Activity of EPSCoR Funded Faculty: Group I

	FY 1992	FY 1993	FY 1994	FY 1995**
Proposals Submitted*	190	202	220	233
Grants Awarded	91	110	109	95
Percent Awarded	48%	54%	50%	41%
Dollars Awarded	\$5.450m	\$6.072m	\$9.957m	\$8.656m
(Adjusted for Inflation)	(\$3.886m)	(\$4.202m)	(\$6.721m)	
% Change Dollars Awarded:				
1992 to 1994	83%			
(Adjusted for Inflation)	(73%)			

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

**Incomplete data due to grants still pending.

Source: Institutional databases.

Table 17
Total Grant Activity of EPSCoR Funded Faculty: Group II

	FY 1994	FY 1995**
Proposals Submitted*	185	225
Grants Awarded	65	77
Percent Awarded	36%	34%
Dollars Awarded	\$5,655,292	\$6,615,222

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

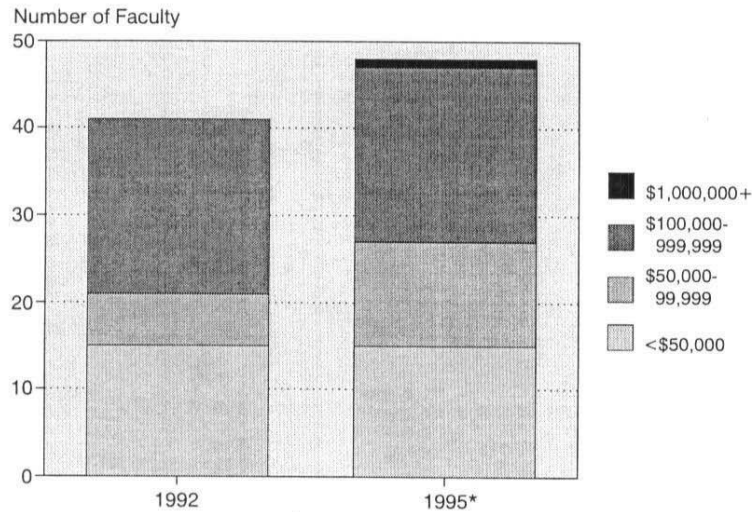
**Incomplete data due to grants still pending.

Source: Institutional databases.

Figure 17 shows how faculty funded by the first EPSCoR grant increased the total dollars awarded to them. In FY 1992, the first year of funding, 15 EPSCoR funded faculty were awarded grants totaling less than \$50,000, six were awarded between \$50,00 and \$99,999, and 19 were awarded grants totaling in the six-figure range (\$100,000 to \$999,999). In FY 1995, with some grants still pending, funding for Group I increased dramatically in the \$50,000-\$99,999 range and in the \$100,000-\$999,999 range.

Table 18 presents the distribution of total dollars awarded to Group I by institution. Awards totaling between \$50,000 and \$99,999 showed increases at all three institutions in number of faculty within that funding range.

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



Source: Institutional databases.
*Incomplete data because some grants are still pending.

Table 18
EPSCoR Funded Faculty and Distribution of Dollars Awarded: Group I

Dollars Awarded:	Number of EPSCoR Faculty Within Each Funding Range:*							
	KSU		KU		WSU		STATE	
	1992	1995**	1992	1995**	1992	1995**	1992	1995**
\$1 - \$49,999	6	6	6	6	3	3	15	15
\$50,000-\$99,999	3	4	3	7	0	1	6	12
\$100,000-\$999,999	8	9	12	11	0	0	20	20
\$1,000,000 +	0	1	0	0	0	0	0	1
Total:	17	20	21	24	3	4	41	48
(Group N)	(32)	(33)	(39)	(42)	(14)	(20)	(85)	(95)
Percent of Total:	53%	61%	54%	57%	21%	20%	48%	51%

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

**1995 data are incomplete due to grants still pending.

Source: Institutional databases.

Table 19 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. Data reported in Table 18 and 19 do not include NSF EPSCoR funds. It was difficult to assess 1995 data since some grants were still pending at the time data were collected. Group II does include some faculty who were also part of Group I funding. Group II began with most faculty accumulating between \$100,000 and \$999,999 in FY 1994 and thus far in FY 1995. See Appendix G for a complete listing of faculty included in Group I and Group II.

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

Dollars Awarded:	Number of EPSCoR Faculty Within Each Funding Range:*							
	KSU		KU		WSU		STATE	
	1994	1995**	1994	1995**	1994	1995**	1994	1995**
\$1 - \$49,999	0	5	6	6	4	5	10	16
\$50,000-\$99,999	3	4	5	8	1	2	9	14
\$100,000-\$999,999	10	9	8	6	1	2	19	17
\$1,000,000 +	0	0	0	0	0	0	0	0
Total Number:	13	18	19	20	6	9	38	47
(Total Group)	(33)	(33)	(40)	(40)	(21)	(21)	(94)	(94)
Percent of Total:	39%	55%	48%	50%	29%	43%	40%	50%

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

**1995 data are incomplete due to grants still pending.

Source: Institutional databases.

IMPACT OF FUNDING UPON INFRASTRUCTURE

Have changes in grant funding affected the growth of the science, engineering, and math infrastructure? Table 20 shows that, if 1995 funding levels remain below 1994 levels when data collection is completed, there may be a relationship between funding levels and number of post doctoral students, with the effect of funding upon post docs lagging by one year. For example, when funding increased from 1991 to 1992, the number of post docs increased in 1993. Decreased funding from 1992 to 1993 resulted in a decrease in number of post docs in 1994. Certainly the level of change in dollars awarded from 1991 to 1994 (83 percent change) was not reflected in the same magnitude in the number of post doctoral students (16 percent change), faculty (two percent), or graduate student enrollment (12 percent).

Table 20
SEM Infrastructure and Funding Growth

Year	Total Dollars Awarded	Post Docs	Faculty	Graduate Enrollment
1991	\$51,385,542	45	1,231	3,918
1992	\$67,505,762	58	1,226	4,069
1993	\$63,797,151	65	1,226	4,195
1994	\$71,074,517	52	1,258	4,280
1995	\$57,757,345*	65	1,245	4,140
'91 to '94 % change	38%	16%	2%	12%

*Data incomplete due to grants still pending.

CONCLUSIONS

Kansas participated in the NSF EPSCoR program for three years, from 1992 through 1994. 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 in academic year 1995 compared to 1994. The largest decreases were seen at KU, which had a hiring freeze in place to help solve budgetary problems. Unfilled faculty positions may increase teaching loads, decrease the number of graduate students that can be accepted into programs, and decrease the number of grants submitted.
- The number of women and minority SEM faculty continued to be above 1991 levels but showed little change from 1994 to 1995. While women were 15 percent of the faculty in 1995 (well below levels seen in the general population), minorities, at 13 percent, were very close to the proportion found in the general population.
- The number of assistant professors was lower in 1995 than in 1994 at all three institutions, as was the number of student research assistants. This may have a negative impact upon research and grant productivity.

- Faculty salaries continue to be lower than those paid at peer institutions.
- SEM graduate enrollment was five percent lower than 1994 levels but six percent above 1991 levels. The number of science graduate students fell nine percent below 1994 levels and three percent below 1991 levels.
- Number of women and minorities enrolled in SEM graduate programs declined in 1995.
- In 1995, 34 percent of SEM graduate students were women and nine 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.
- Number of graduate students receiving financial support in the form of teaching assistantships or research assistantships was slightly lower than the previous year but, due to decreases in enrollment, the percentage receiving support increased slightly.
- NSF dollars (excluding NSF EPSCoR) awarded to the state continued to increase.
- The number and dollars awarded by all funding sources declined in FY 1995. FY 1995 data were incomplete since some grants were still pending at the time data were collected.

The 1995 data revealed declines in number of assistant professors, student research assistants, and graduate enrollment. While disturbing, these decreases must be put into context. With hiring freezes lifted, the number of faculty will increase and the number of students accepted into graduate programs should also increase. With more faculty hired, number of grants submitted and funded should improve, which will also increase the number of student research assistants that can be supported. If the hiring freeze was responsible for the declines seen in the 1995 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

Appendix A

Departments/Units Included in Database

DEPARTMENTS/UNITS INCLUDED IN DATABASE⁴

KSU

Science

Animal Science
 Food Science
 Genetics
 Agronomy
 Biochemistry
 Entomology
 Grain Science
 Horticulture
 Plant Pathology
 Biology
 Microbiology
 Chemistry
 Geology
 Physics
 Political Sci/Publ. 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
 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 & Bus. Res.
 Interdisc. Environ. 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 Engineering
 CRINC
 Chemical & Petroleum
 Civil
 Ctr. Energy Res/Dev.
 Ctr. Excel/CECASE
 Electrical & Computer
 Engineering Management

⁴Departments listed under Science, Engineering, and Math are included in all databases: 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.

Mechanical
Space Technology Ctr.
Tertiary Oil Recovery
Transportation Res. Ctr.
Water Resources Institute

WSU

Science

Curriculum & Instruction
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

Appendix B

SEM Faculty and Personnel

NUMBER OF SEM FACULTY

KSU	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	479	471	472	482	479	-1%	0%
Engineering	115	111	106	128	130	2%	13%
Math	29	31	33	32	32	0%	10%
Subtotal	623	613	611	642	641	-0%	3%
KU-Lawrence							
Science	286	295	300	296	283	-4%	-1%
Engineering	76	76	75	86	87	1%	14%
Math	37	38	40	38	36	-5%	-3%
Subtotal	399	409	415	420	406	-3%	2%
WSU							
Science	138	132	130	126	127	1%	-8%
Engineering	44	46	45	45	46	2%	5%
Math	27	26	25	25	25	0%	-7%
Subtotal	209	204	200	196	198	1%	-5%
STATE							
Science	903	898	902	904	889	-2%	-2%
Engineering	235	233	226	259	263	2%	12%
Math	93	95	98	95	93	-2%	0%
TOTAL	1,231	1,226	1,226	1,258	1,245	-1%	1%

NUMBER OF WOMEN FACULTY

KSU	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	54	54	60	64	64	0%	19%
Engineering	4	4	5	6	8	33%	100%
Math	0	0	0	0	0		
Subtotal	58	58	65	70	72	3%	24%
% of Total	9%	9%	11%	11%	11%		
KU-Lawrence							
Science	45	53	57	60	58	-3%	29%
Engineering	2	2	4	5	6	20%	200%
Math	3	3	3	3	3	0%	0%
Subtotal	50	58	64	68	67	-1%	34%
% of Total	13%	14%	15%	16%	17%		
WSU							
Science	52	49	46	47	44	-6%	-15%
Engineering	2	2	2	2	3	50%	50%
Math	1	0	0	0	0		-100%
Subtotal	55	51	48	49	47	-4%	-15%
% of Total	26%	25%	24%	25%	24%		
STATE							
Science	151	156	163	171	166	-3%	10%
Engineering	8	8	11	13	17	31%	113%
Math	4	3	3	3	3	0%	-25%
TOTAL	163	167	177	187	186	-1%	14%
% of TOTAL	13%	14%	14%	15%	15%		

NUMBER OF MINORITY FACULTY

KSU	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	36	40	40	39	42	8%	17%
Engineering	16	16	14	22	26	18%	63%
Math	6	8	9	9	8	-11%	33%
Minority total	58	64	63	70	76	9%	31%
% of Total	9%	10%	10%	11%	12%		

KU-Lawrence

Science	24	25	24	27	24	-11%	0%
Engineering	10	12	12	14	13	-7%	30%
Math	5	6	9	9	9	0%	80%
Subtotal	39	43	45	50	46	-8%	18%
% of Total	10%	11%	11%	12%	11%		

WSU

Science	15	16	17	15	16	7%	7%
Engineering	10	12	12	14	15	7%	50%
Math	7	7	6	8	9	13%	29%
Subtotal	32	35	35	37	40	8%	25%
% of Total	15%	17%	18%	19%	20%		

STATE

Science	75	81	81	81	82	1%	9%
Engineering	36	40	38	50	54	8%	50%
Math	18	21	24	26	26	0%	44%
TOTAL	129	142	143	157	162	3%	26%
% of TOTAL	10%	12%	12%	12%	13%		

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

ACADEMIC YEAR BEGINNING FALL OF

SCIENCE	1991			1992			1993			1994			1995							
	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL					
Male	425	241	86	752	417	242	83	742	412	243	84	739	418	236	79	733	415	225	83	723
Female	54	45	52	151	54	53	49	156	60	57	46	163	64	60	47	171	64	58	44	166
Total	479	286	138	903	471	295	132	898	472	300	130	902	482	296	126	904	479	283	127	889
% Female	11%	16%	38%	17%	11%	18%	37%	17%	13%	19%	35%	18%	13%	20%	37%	19%	13%	20%	35%	19%
White	427	262	123	812	432	270	116	818	432	276	113	821	443	269	111	823	437	257	111	805
African Amer.	0	2	1	3	0	2	1	3	0	2	1	3	0	3	2	5	2	2	2	6
Hispanic	2	0	1	3	4	0	0	4	3	0	0	3	3	0	0	3	3	0	0	3
Asian/Pac.Isl.	33	22	13	68	36	22	15	73	36	21	16	73	35	23	13	71	35	21	14	70
Am.Ind./Alaskan	1	0	0	1	0	1	0	1	1	1	0	2	1	1	0	2	2	1	0	3
Total *	463	286	138	887	472	295	132	899	472	300	130	902	482	296	126	904	479	281	127	887
% Minority	8%	8%	11%	8%	8%	8%	12%	9%	8%	8%	13%	9%	8%	9%	12%	9%	9%	9%	13%	9%

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

ENGINEERING	1991			1992			1993			1994			1995			
	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL	
Male	111	74	42	227	107	74	44	225	101	71	43	215	122	81	43	246
Female	4	2	2	8	4	2	2	8	5	4	2	11	6	5	2	13
Total	115	76	44	235	111	76	46	233	106	75	45	226	128	86	45	259
% Female	3%	3%	5%	3%	4%	3%	4%	3%	5%	5%	4%	5%	5%	6%	4%	5%
White	99	66	34	199	94	64	34	192	92	63	33	188	106	72	31	209
African Amer.	0	1	1	2	0	1	1	2	0	1	1	2	0	1	1	2
Hispanic	1	0	1	2	1	1	1	3	1	1	1	3	1	1	1	3
Asian/Pac.Isl.	15	9	8	32	15	10	10	35	13	10	10	33	20	12	12	44
Am.Ind./Alaskan	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Total	115	76	44	235	110	76	46	232	106	75	45	226	128	86	45	259
% Minority	14%	13%	23%	15%	15%	16%	26%	17%	13%	16%	27%	17%	17%	16%	31%	19%

SCIENCE, MATH & ENGINEERING	1991			1992			1993			1994			1995			
	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL	
Male	565	349	154	1068	555	351	153	1059	546	351	152	1049	572	352	147	1071
Female	58	50	55	163	58	58	51	167	65	64	48	177	70	68	49	187
Total	623	399	209	1231	613	409	204	1226	611	415	200	1226	642	420	196	1258
% Female	9%	13%	26%	13%	9%	14%	25%	14%	11%	15%	24%	14%	11%	16%	25%	15%
White	549	360	177	1086	549	366	169	1084	548	370	165	1083	572	370	159	1101
African Amer.	0	3	2	5	0	3	2	5	0	3	2	5	0	4	3	7
Hispanic	4	2	3	9	6	3	2	11	5	3	2	10	5	2	2	9
Asian/Pac.Isl.	53	34	27	114	58	36	31	125	57	38	31	126	63	43	32	138
Am.Ind./Alaskan	1	0	0	1	0	1	0	1	1	1	0	2	2	1	0	3
Total *	607	399	209	1215	613	409	204	1226	611	415	200	1226	642	420	196	1258
% Minority	10%	10%	15%	11%	10%	11%	17%	12%	10%	11%	18%	12%	11%	12%	19%	12%

* 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	% Change 1994-1995	% Change 1991-1994
Science	2,813	3,103	3,101	3,111	3,048	-2%	8%
Math	224	235	231	239	237	-1%	6%
Engineering	619	588	670	758	765	1%	24%
SEM TOTAL	3,656	3,926	4,002	4,108	4,050	-1%	11%
Professor	557	558	555	562	556	-1%	-0%
Assoc. Professor	334	322	326	331	355	7%	6%
Assist. Professor	340	346	345	365	334	-8%	-2%
Academic Staff, Directors, & Technical Staff	376	616	514	499	495	-1%	32%
<i>Subtotal</i>	<i>1,607</i>	<i>1,842</i>	<i>1,740</i>	<i>1,757</i>	<i>1,740</i>	<i>-1%</i>	<i>8%</i>
Research Assoc. & Assist.	341	352	344	310	293	-5%	-14%
Post Doctoral	45	58	65	52	65	25%	44%
Grad. Teaching Assist.	846	789	868	924	982	6%	16%
Student Research Assistants	817	885	985	1,065	970	-9%	19%
<i>Subtotal</i>	<i>2,049</i>	<i>2,084</i>	<i>2,262</i>	<i>2,351</i>	<i>2,310</i>	<i>-2%</i>	<i>13%</i>
TOTAL	3,656	3,926	4,002	4,108	4,050	-1%	11%

SME PERSONNEL BY TITLE FOR KSU, KU, AND WSU

ACADEMIC YEAR BEGINNING FALL OF

SCIENCE	1991			1992			1993			1994			1995							
	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL					
Professor	212	158	29	399	221	154	30	405	223	158	27	408	228	155	25	408	226	149	28	403
Associate Prof.	135	68	41	244	125	72	40	237	119	73	44	236	120	68	45	233	131	66	47	244
Assistant Prof.	132	60	68	260	125	69	62	256	130	69	59	258	134	73	56	263	122	68	52	242
Acad. Staff*	91	111	20	222	92	125	12	229	109	121	34	264	111	118	39	268	102	124	55	281
Res Assoc/Asst.	181	133	2	316	177	152	1	330	193	136	0	329	175	122	0	297	162	116	0	278
Post Docs	45			45		57		57		64		64		50	0	50		64	0	64
Teaching Assist.	186	334	76	596	173	348	76	597	169	350	88	607	181	353	102	636	216	329	126	671
Student Res. Asst.	274	365	1	640	296	427	8	731	363	411	11	785	413	398	8	819	386	333	7	726
Technical Staff**	17	56	18	91	21	217	23	261	22	128	0	150	22	115	0	137	24	115	0	139
TOTAL	1,228	1,330	255	2,813	1,230	1,621	252	3,103	1,328	1,510	263	3,101	1,384	1,452	275	3,111	1,369	1,364	315	3,048

MATH	1991			1992			1993			1994			1994							
	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL	KSU	KU	WSU TOTAL					
Professor	14	17	5	36	13	17	6	36	12	18	5	35	14	18	6	38	13	18	6	37
Associate Prof.	6	14	14	34	6	14	12	32	8	14	13	35	9	12	11	32	12	13	12	37
Assistant Prof.	9	6	8	23	12	7	8	27	13	8	7	28	9	8	8	25	7	5	7	19
Academic Staff	1	1	12	14	0	2	12	14	1	2	13	16	2	3	11	16	1	2	15	18
Res. Assoc/Asst.	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		1	0	1		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
Student Res. Asst.	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	2	0	1	0	1
Technical Staff	0	0	0	0	0	22	0	22	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

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

SCIENCE, MATH & ENGINEERING	1991				1992				1993				1994				1995			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Professor	285	220	52	557	291	214	53	558	291	215	49	555	301	216	45	562	300	209	47	556
Associate Prof.	170	100	64	334	159	102	61	322	153	105	68	326	161	103	67	331	175	105	75	355
Assistant Prof.	168	79	93	340	163	93	90	346	167	95	83	345	180	101	84	365	166	92	76	334
Academic Staff	100	120	39	259	110	139	31	280	129	142	68	339	127	140	69	336	118	140	77	335
Res. Assoc/Asst.	199	137	5	341	189	155	8	352	205	139	0	344	185	125	0	310	175	118	0	293
Post Docs	0	45	0	45	0	58	0	58	0	65	0	65	0	52	0	52	0	65	0	65
Teaching Assist.	250	427	169	846	219	441	129	789	260	447	161	868	273	449	202	924	317	427	238	982
Student Res.Asst.	392	394	31	817	401	449	35	885	496	439	50	985	599	413	53	1065	565	368	37	970
Technical Staff	19	67	31	117	26	274	36	336	30	145	0	175	31	132	0	163	30	130	0	160
TOTAL	1,583	1,589	484	3,656	1,558	1,925	443	3,926	1,731	1,792	479	4,002	1,857	1,731	520	4,108	1,846	1,654	550	4,050

* Adjunct faculty, 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											
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL								
Male	595	861	138	1,594	588	990	136	1,714	950	917	145	2,012	977	864	149	1,990	967	803	169	1,939
Female	173	469	117	759	173	631	116	920	378	593	118	1,089	407	588	126	1,121	402	561	146	1,109
% Female	23%	35%	46%	32%	23%	39%	46%	35%	28%	39%	45%	35%	29%	40%	46%	36%	29%	41%	46%	36%
White	665	1,016	214	1,895	661	1,241	212	2,114	1,018	1,183	221	2,422	1,056	1,135	227	2,418	1,053	1,076	256	2,385
African Amer.	4	25	2	31	5	34	2	41	20	31	5	56	19	32	5	56	19	36	5	60
Hispanic	5	32	1	38	5	25	1	31	28	29	2	59	28	26	0	54	22	31	2	55
Asian/Pac.Isl.	76	245	35	356	89	313	35	437	258	263	34	555	277	252	42	571	272	214	51	537
Am.Ind./Alaskan	2	12	3	17	1	8	2	11	4	4	1	9	4	7	1	12	3	7	1	11
% Minority	12%	24%	16%	19%	13%	23%	16%	20%	23%	22%	16%	22%	24%	22%	17%	22%	23%	21%	19%	22%
MATH	1991	1992	1993	1994	1995	1991	1992	1993	1994	1995	1991	1992	1993	1994	1995	1991	1992	1993	1994	1995
Male	30	64	51	145	31	80	47	158	69	73	44	186	64	75	49	188	70	69	46	185
Female	0	24	12	36	0	31	9	40	14	20	11	45	16	22	12	50	13	24	15	52
% Female	0%	27%	19%	20%	0%	28%	16%	20%	17%	22%	20%	19%	20%	23%	20%	21%	16%	26%	25%	22%
White	24	66	47	137	23	78	43	144	55	70	41	166	50	75	41	166	58	73	39	170
African Amer.	0	0	2	2	0	2	1	3	1	1	3	5	1	1	3	5	1	0	3	4
Hispanic	1	2	3	6	1	2	3	6	1	3	4	8	1	2	4	7	1	2	4	7
Asian/Pac.Isl.	5	19	11	35	7	27	9	43	26	17	7	50	28	17	13	58	22	18	15	55
Am.Ind./Alaskan	0	1	0	1	0	2	0	2	0	2	0	2	0	2	0	2	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%

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

SCIENCE, MATH & ENGINEERING	1991			1992			1993			1994			1995				
	KSU	WSU	TOTAL	KSU	WSU	TOTAL	KSU	WSU	TOTAL	KSU	WSU	TOTAL	KSU	WSU	TOTAL		
Male	759	1,081	336	2,176	757	1,238	304	2,299	1,308	2,791	1,389	1,101	2,856	1,384	1,047	374	2,805
Female	183	510	148	841	181	687	139	1,007	423	1,211	466	630	1,250	462	607	176	1,245
% Female	19%	32%	31%	28%	19%	36%	31%	30%	24%	30%	25%	36%	30%	25%	37%	32%	31%
White	808	1,210	359	2,377	802	1,459	336	2,597	1,255	2,990	1,317	1,354	3,028	1,326	1,294	365	2,985
African Amer.	4	31	6	41	5	45	5	55	22	69	21	35	66	23	41	11	75
Hispanic	7	37	8	52	7	30	5	42	31	77	33	32	72	26	38	8	72
Asian/Pac.Isl.	105	299	96	500	122	381	86	589	417	847	478	301	920	466	274	160	900
Am.Ind./Alaskan	2	14	15	31	2	10	11	23	6	19	6	9	20	5	7	6	18
% Minority	13%	24%	26%	21%	14%	24%	24%	21%	27%	25%	29%	22%	26%	28%	22%	34%	26%

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

RESEARCH PERSONNEL* RECEIVING FINANCIAL SUPPORT VS. GRADUATE ENROLLMENT

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

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

	WSU				
	1991	1992	1993	1994	1995
Supported	205	172	211	255	275
Enrolled	1,000	968	1,017	1,058	965
% Supported	21%	18%	21%	24%	28%

	State				
	1991	1992	1993	1994	1995
Supported	2,049	2,084	2,262	2,351	2,310
Enrolled	3,918	4,069	4,195	4,380	4,140
% Supported	52%	51%	54%	54%	56%

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

Appendix C

SEM Graduate Enrollment

SEM GRADUATE ENROLLMENT

	1991	1992	1993	1994	1995	1994-1995 % Change	1991-1995 % Change
KSU							
Science	894	930	988	1,009	991	-2%	11%
Engineering	270	297	314	380	421	11%	56%
Math	52	55	59	53	62	17%	19%
Subtotal	1,216	1,282	1,361	1,442	1,474	2%	21%
KU-Lawrence							
Science	1,095	1,161	1,168	1,210	1,057	-13%	-3%
Engineering	553	597	587	606	588	-3%	6%
Math	54	61	62	64	56	-13%	4%
Subtotal	1,702	1,819	1,817	1,880	1,701	-10%	-0%
WSU							
Science	694	641	623	643	555	-14%	-20%
Engineering	266	285	350	376	373	-1%	40%
Math	40	42	44	39	37	-5%	-8%
Subtotal	1,000	968	1,017	1,058	965	-9%	-4%
STATE							
Science	2,683	2,732	2,779	2,862	2,603	-9%	-3%
Engineering	1,089	1,179	1,251	1,362	1,382	1%	27%
Math	146	158	165	156	155	-1%	6%
TOTAL	3,918	4,069	4,195	4,380	4,140	-5%	6%

WOMEN GRADUATE ENROLLMENT

	1991	1992	1993	1994	1995	1994-1995 % Change	1991-1995 % Change
KSU							
Science	226	224	254	342	341	-0%	51%
Engineering	25	35	39	52	62	19%	148%
Math	11	18	18	18	15	-17%	36%
Subtotal	262	277	311	412	418	1%	60%
% of Total	22%	22%	23%	29%	28%		
KU-Lawrence							
Science	464	514	533	569	524	-8%	13%
Engineering	75	80	84	92	88	-4%	17%
Math	22	22	20	19	20	5%	-9%
Subtotal	561	616	637	680	632	-7%	13%
% of Total	33%	34%	35%	36%	37%		
WSU							
Science	522	484	411	324	314	-3%	-40%
Engineering	26	30	38	35	40	14%	54%
Math	11	16	17	16	12	-25%	9%
Subtotal	559	530	466	375	366	-2%	-35%
% of Total	56%	55%	46%	35%	38%		
STATE							
Science	1,212	1,222	1,198	1,235	1,179	-5%	-3%
Engineering	126	145	161	179	190	6%	51%
Math	44	56	55	53	47	-11%	7%
TOTAL	1,382	1,423	1,414	1,467	1,416	-3%	2%
% of Total	35%	35%	34%	33%	34%		

MINORITY GRADUATE ENROLLMENT

KSU	1991	1992	1993	1994	1995	1994-1995	1992-1995
						% Change	% Change
Science	**	46	36	36	42	17%	-9%
Engineering	**	13	9	9	31	244%	138%
Math	**	3	2	2	3	50%	0%
Subtotal	**	62	47	47	76	62%	23%
% of Total	**	9%	6%	6%	9%		
KU-Lawrence							
Science	43	51	57	63	61	-3%	20%
Engineering	19	20	26	25	29	16%	45%
Math	2	4	5	6	2	-67%	-50%
Subtotal	64	75	88	94	92	-2%	23%
% of Total	7%	8%	9%	10%	10%		
WSU							
Science	38	48	39	61	24	-61%	-50%
Engineering	15	17	24	42	19	-55%	12%
Math	1	0	1	2	2	0%	ERR
Subtotal	54	65	64	105	45	-57%	-31%
% of Total	7%	9%	9%	15%	6%		
STATE							
Science	**	145	132	160	127	-21%	-12%
Engineering		50	59	76	79	4%	58%
Math		7	8	10	7	-30%	0%
TOTAL		202	199	246	213	-13%	5%
% of TOTAL		8%	8%	10%	9%		

**KSU ethnic data are not available. Unable to calculate percent change due to missing data.

SME GRADUATE ENROLLMENT DEMOGRAPHICS FOR KSU, KU, AND WSU

SCIENCE	1994				1995				1994-1995	1991-1995
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL	% Change	% Change
Male	667	641	319	1,627	650	533	241	1,424	-12%	-1%
Female	342	569	324	1,235	341	524	314	1,179	-5%	8%
TOTAL	1,009	1,210	643	2,862	991	1,057	555	2,603	-9%	3%
% Female	34%	47%	50%	43%	34%	50%	57%	45%		
White	550	551	478	1,579	550	489	428	1467	-7%	*
African Amer.	8	17	17	42	8	18	1	27	-36%	
Hispanic	17	17	12	46	15	19	7	41	-11%	
Asian/Pac.Isl.	9	25	31	65	17	20	15	52	-20%	
Am.Ind/Alaskan	2	4	1	7	2	4	1	7	0%	
Nonresident Alien	423	320	104	847	399	264	103	766	-10%	
Not Reported	0	276	0	276	0	243	0	243	-12%	
% Minority**	6%	10%	11%	9%	7%	11%	5%	8%		

MATH	1994				1995				1994-1995	1991-1995
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL	% Change	% Change
Male	35	45	23	103	47	36	25	108	5%	-2%
Female	18	19	16	53	15	20	12	47	-11%	-15%
TOTAL	53	64	39	156	62	56	37	155	-1%	-6%
% Female	34%	30%	41%	34%	24%	36%	32%	30%		
White	21	28	17	66	23	30	17	70	6%	*
African Amer.	0	2	1	3	1	1	1	3	0%	
Hispanic	0	0	0	0	1	0	1	2	ERR	
Asian/Pac.Isl.	2	2	1	5	0	1	0	1	-80%	
Am.Ind/Alaskan	0	2	0	2	1	0	0	1	-50%	
Nonresident Alien	30	17	21	68	36	15	18	69	1%	
Not Reporting	0	13	0	13	0	9	0	9	-31%	
% Minority	9%	18%	11%	13%	12%	6%	11%	9%		

ENGINEERING	1994				1995				1994-1995	1991-1995
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL	% Change	% Change
Male	328	514	341	1,183	359	500	333	1,192	1%	-19%
Female	52	92	35	179	62	88	40	190	6%	-32%
TOTAL	380	606	376	1,362	421	588	373	1,382	1%	-21%
% Female	14%	15%	9%	13%	15%	15%	11%	14%		
White	144	306	114	564	184	302	104	590	5%	*
African Amer.	2	1	3	6	8	3	4	15	150%	
Hispanic	4	4	6	14	3	6	0	9	-36%	
Asian/Pac.Isl.	3	19	31	53	20	19	13	52	-2%	
Am.Ind/Alaskan	0	1	2	3	0	1	2	3	0%	
Nonresident Alien	227	177	219	623	206	167	250	623	0%	
Not Reporting	0	98	0	98	0	90	0	90	-8%	
% Minority	6%	8%	27%	12%	14%	9%	15%	12%		

SCIENCE, MATH & ENGINEERING	1994				1995				1994-1995		1991-1995
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL	% Change	% Change	
Male	1,030	1,200	683	2,913	1,056	1,069	599	2,724	-6%	-9%	
Female	412	680	375	1,467	418	632	366	1,416	-3%	2%	
TOTAL	1,442	1,880	1,058	4,380	1,474	1,701	965	4,140	-5%	-5%	
% Female	29%	36%	35%	33%	28%	37%	38%	34%			
White	715	885	609	2,209	757	821	549	2,127	-4%	*	
African Amer.	10	20	21	51	17	22	6	45	-12%		
Hispanic	21	21	18	60	19	25	8	52	-13%		
Asian/Pac. Isl.	14	46	63	123	37	40	28	105	-15%		
Am. Ind./Alaskan	2	7	3	12	3	5	3	11	-8%		
Nonresident Alien	680	514	344	1,538	641	446	371	1,458	-5%		
Not Reporting	0	387	0	387	0	342	0	342	-12%		
% Minority	6%	10%	15%	10%	9%	10%	8%	9%			

*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

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

SME GRADUATE ENROLLMENT DEMOGRAPHICS FOR KSU, KU, AND WSU

SCIENCE	1991*			1992			1993			1994			1991-1994				
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL	% Change
Male	609	631	172	1,412	613	647	157	1,417	662	635	212	1,509	667	641	319	1,627	
Female	285	464	522	1,271	317	514	484	1,315	326	533	411	1,270	342	569	324	1,235	
TOTAL	894	1,095	694	2,683	930	1,161	641	2,732	988	1,168	623	2,779	1,009	1,210	643	2,862	
% Female	32%	42%	75%	47%	34%	44%	76%	48%	33%	46%	66%	46%	34%	47%	50%	43%	7%
White	*	561	609	1,170	509	572	545	1,626	543	546	543	1,632	550	551	478	1,579	
African Amer.		12	17	29	23	12	24	59	11	15	16	42	8	17	17	42	
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	31	65	
Am.Ind./Alaskan		1	9	10	4	2	3	9	4	3	2	9	2	4	1	7	
Nonresident Alien		336	47	383	375	336	48	759	409	343	41	793	423	320	104	847	
Not Reported		155	0	155	0	202	0	202	0	222	0	222	0	276	0	276	
% Minority**	7%	7%	6%	6%	8%	8%	8%	8%	6%	9%	7%	7%	6%	10%	11%	9%	
MATH	1991	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Male	45	32	29	106	44	39	26	109	41	42	27	110	35	45	23	103	
Female	7	22	11	40	11	22	16	49	18	20	17	55	18	19	16	53	
TOTAL	52	54	40	146	55	61	42	158	59	62	44	165	53	64	39	156	
% Female	13%	41%	28%	27%	20%	36%	38%	31%	31%	32%	39%	33%	34%	30%	41%	34%	7%
White	*	26	13	39	24	27	22	73	29	29	23	81	21	28	17	66	
African Amer.		0	0	0	0	0	0	0	0	1	0	1	0	2	1	3	
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	1	5	
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	21	68	
Not Reporting		4	0	4	0	6	0	6	0	9	0	9	0	13	0	13	
% Minority	7%	7%	7%	7%	11%	13%	0%	9%	6%	15%	4%	9%	9%	18%	11%	13%	

ENGINEERING	1991		1992		1993		1994		WSU TOTAL	KSU TOTAL	KUSU TOTAL	TOTAL				
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL					KSU	KU	WSU	TOTAL
Male	242	478	240	960	270	517	255	1,042	279	503	312	1,094	328	514	341	1,183
Female	28	75	26	129	27	80	30	137	35	84	38	157	52	92	35	179
TOTAL	270	553	266	1,089	297	597	285	1,179	314	587	350	1,251	380	606	376	1,362
% Female	10%	14%	10%	12%	9%	13%	11%	12%	11%	14%	11%	13%	14%	15%	9%	13%
White	*	314	112	426	129	314	118	561	135	302	117	554	144	306	114	564
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	6	14
Asian/Pac.Isl.		14	9	23	9	12	9	30	5	19	13	37	3	19	31	53
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	219	623
Not Reporting		60	0	60	0	73	0	73	0	78	0	78	0	98	0	98
% Minority		6%	12%	7%	9%	6%	13%	8%	6%	8%	17%	10%	6%	8%	27%	12%

SCIENCE, MATH & ENGINEERING	1991		1992		1993		1994		WSU TOTAL	KSU TOTAL	KUSU TOTAL	TOTAL				
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL					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	683	2,913
Female	320	561	559	1,440	355	616	530	1,501	379	637	466	1,482	412	680	375	1,467
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	1,058	4,380
% Female	26%	33%	56%	37%	28%	34%	55%	37%	28%	35%	46%	35%	29%	36%	35%	33%
White	*	901	734	1,635	662	913	685	2,260	707	877	683	2,267	715	885	609	2,209
African Amer.		13	20	33	25	15	28	68	13	17	17	47	10	20	21	51
Hispanic		16	11	27	15	21	15	51	14	22	22	58	21	21	18	60
Asian/Pac.Isl.		32	13	45	18	34	18	70	16	43	21	80	14	46	63	123
Am.Ind/Alaskan		3	10	13	4	5	4	13	4	6	4	14	2	7	3	12
Nonresident Alien		518	212	730	558	550	218	1,326	607	543	270	1,420	680	514	344	1,538
Not Reporting		219	0	219	0	281	0	281	0	309	0	309	0	387	0	387
% Minority		7%	7%	7%	9%	8%	9%	8%	6%	9%	9%	8%	6%	10%	15%	10%

*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.

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

Appendix D

SEM Degrees Awarded

SEM DEGREES AWARDED

TOTAL POPULATION	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Ph.D.	182	236	197	218	238	9%	31%
Masters	559	621	675	787	828	5%	48%
Bachelors	2,723	3,123	3,039	3,205	3,140	-2%	15%
TOTAL	3,464	3,980	3,911	4,210	4,206	-0%	21%

WOMEN

Ph.D.	40	60	61	57	56	-2%	40%
Masters	210	202	285	327	348	6%	66%
Bachelors	1,111	1,233	1,235	1,257	1,260	0%	13%
Subtotal	1,361	1,495	1,581	1,641	1,664	1%	22%
% of Total	39%	38%	40%	39%	40%		

MINORITIES *

Ph.D.	1	2	11	9	26		
Masters	16	15	34	29	37		
Bachelors	147	172	154	218	269		
Subtotal	164	189	199	256	332		
% of Total	5%	5%	5%	6%	8%		

* 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	1994-1995	1991-1995
						% Change	% Change
KSU	80	111	87	97	105	8%	31%
KU	93	112	91	97	113	16%	22%
WSU	9	13	19	24	20	-17%	122%
TOTAL	182	236	197	218	238	9%	31%

WOMEN

KSU	15	23	25	14	25	79%	67%
KU	23	33	32	37	26	-30%	13%
WSU	2	4	4	6	5	-17%	150%
Subtotal	40	60	61	57	56	-2%	40%
% of Total	22%	25%	31%	26%	24%		

MINORITIES *

KSU*	*	*	*	*	12		
KU	1	2	7	3	9		
WSU	0	0	4	6	5		
Subtotal	1	2	11	9	26		
% of Total	1%	1%	6%	4%	11%		

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

SEM Ph.D. DEGREES AWARDED

KSU	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	65	94	70	75	78	4%	20%
Engineering	13	14	13	14	24	71%	85%
Math	2	3	4	8	3	-63%	50%
Subtotal	80	111	87	97	105	8%	31%

KU-Lawrence	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	76	89	69	73	97	33%	28%
Engineering	16	18	21	19	14	-26%	-13%
Math	1	5	1	5	2	-60%	100%
Subtotal	93	112	91	97	113	16%	22%

WSU	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	5	5	5	9	4	-56%	-20%
Engineering	4	7	12	13	15	15%	275%
Math	0	1	2	2	1	-50%	ERR
Subtotal	9	13	19	24	20	-17%	122%

KSU, KU, WSU COMBINED

	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	146	188	144	157	179	14%	23%
Engineering	33	39	46	46	53	15%	61%
Math	3	9	7	15	6	-60%	100%
TOTAL	182	236	197	218	238	9%	31%

Ph.D. DÉGREES EARNED BY WOMEN

KSU	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	13	20	25	14	21	50%	62%
Engineering	2	2	0	0	3	ERR	50%
Math	0	1	0	0	1	ERR	ERR
Subtotal	15	23	25	14	25	79%	67%

KU-Lawrence	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	23	33	30	30	25	-17%	9%
Engineering	0	0	1	4	1	-75%	ERR
Math	0	0	1	3	0	-100%	ERR
Subtotal	23	33	32	37	26	-30%	13%

WSU	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	1	2	2	5	3	-40%	200%
Engineering	1	2	0	1	2	100%	100%
Math	0	0	2	0	0	ERR	ERR
Subtotal	2	4	4	6	5	-17%	150%

KSU, KU, WSU COMBINED

	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	37	55	57	49	49	0%	32%
Engineering	3	4	1	5	6	20%	100%
Math	0	1	3	3	1	-67%	ERR
TOTAL	40	60	61	57	56	-2%	40%

Ph.D. DEGREES: MINORITIES

KSU*	1991	1992	1993	1994	1995	1994-1995 % Change	1991-1995 % Change**
Science					6	*	*
Engineering	0	0	1	2	6	200%	ERR
Math					0		
Subtotal	0	0	1	2	12		

KU-Lawrence	1991	1992	1993	1994	1995	1994-1995 % Change	1991-1995 % Change
Science	1	1	6	1	8	700%	700%
Engineering	0	1	1	1	1	0%	ERR
Math	0	0	0	1	0	-100%	ERR
Subtotal	1	2	7	3	9	200%	800%

WSU	1991	1992	1993	1994	1995	1994-1995 % Change	1991-1995 % Change
Science	0	0	1	2	0	-100%	ERR
Engineering	0	0	3	4	5	25%	ERR
Math	0	0	0	0	0	ERR	ERR
Subtotal	0	0	4	6	5	-17%	ERR

KSU, KU and WSU COMBINED

	1991	1992	1993	1994	1995	1994-1995 % Change	1991-1995 % Change
Science	1	1	7	3	14	*	*
Engineering	0	1	5	7	12	71%	
Math	0	0	0	1	0		
TOTAL	1	2	12	11	26		

*1991-1994 KSU ethnic data for science and math are not available from the institution's database.

** Formula: $\frac{\text{New}-\text{Old}}{\text{Old}}$ Percent change cannot be calculated when the "old" year (e.g., 1991) is zero.

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

SCIENCE	1991*			1992			1993			1994			1995							
	KSU	KU*	WSU*	TOTAL	KSU	WSU	TOTAL	KSU	WSU	TOTAL	KSU	WSU	TOTAL	KSU	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	1	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
Axian/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%

MATH	1991			1992			1993			1994			1995							
	KSU	KU	WSU	TOTAL	KSU	WSU	TOTAL	KSU	WSU	TOTAL	KSU	WSU	TOTAL	KSU	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
Axian/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%

ENGINEERING	1991			1992			1993			1994			1995							
	KSU	WSU	TOTAL	KSU	WSU	TOTAL	KSU	WSU	TOTAL	KSU	WSU	TOTAL	KSU	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
Axian/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 & ENGINEERING	1992			1993			1994			1995										
	KSU	WSU	TOTAL	KSU	WSU	TOTAL	KSU	WSU	TOTAL	KSU	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	0	1	0	1	0	1	1	1	1	2	0	0	0	0	1	0	0	1
Hispanic	0	0	0	0	0	0	0	0	0	2	0	2	0	0	1	1	1	2	2	5
Axian/Pac. Isl.	0	0	0	0	0	1	0	1	1	4	3	7	7	2	5	7	11	4	3	18
Am.Ind./Alaskan	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	3	0	3
Nonresident Alien	24	2	2	26	7	31	7	38	27	27	6	33	42	10	52	48	44	7	99	
Not Reported	0	0	0	0	0	1	0	1	2	2	0	2	3	0	3	0	11	0	11	
% Minority	1%	0%	1%	3%	0%	3%	0%	11%	31%	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.

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

SCIENCE	1994				1995			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Male	61	43	4	108	57	72	1	130
Female	14	30	5	49	21	25	3	49
TOTAL	75	73	9	157	78	97	4	179
% Female	19%	41%	56%	31%	27%	26%	75%	27%
Caucasian	*	40	4	44	39	46	4	89
African Amer.		0	0	0	1	0	0	1
Hispanic		0	0	0	0	2	0	2
Axian/Pac. Isl.		1	2	3	5	3	0	8
Am.Ind/Alaskan		0	0	0	0	3	0	3
Nonresident Alien		30	3	33	33	35	0	68
Not Reported		2	0	2	0	11	0	11
% Minority**		2%	33%	6%	13%	15%	0%	14%

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

ENGINEERING	1994				1995			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Male	14	15	12	41	21	13	13	47
Female	0	4	1	5	3	1	2	6
TOTAL	14	19	13	46	24	14	15	53
% Female	0%	21%	8%	11%	13%	7%	13%	11%
Caucasian	2	10	4	16	6	5	4	15
African Amer.	0	0	0	0	0	0	0	0
Hispanic	0	0	1	1	0	0	2	2
Axian/Pac. Isl.	2	1	3	6	6	1	3	10
Am.Ind/Alaskan	0	0	0	0	0	0	0	0
Nonresident Alien	10	10	5	25	12	8	6	26
Not Reported	0	1	0	1	0	0	0	0
% Minority	50%	9%	50%	30%	50%	17%	56%	44%

SCIENCE, MATH 1994 & ENGINEERING	1994				1995			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Male	83	60	18	161	80	87	15	182
Female	14	37	6	57	26	26	5	57
TOTAL	97	97	24	218	106	113	20	239
% Female	14%	38%	25%	26%	25%	23%	25%	24%
Caucasian	*	52	8	60	58	52	8	118
African Amer.		0	0	0	1	0	0	1
Hispanic		0	1	1	1	2	2	5
Axian/Pac. Isl.		2	5	7	11	4	3	18
Am.Ind/Alaskan		1	0	1	0	3	0	3
Nonresident Alien		42	10	52	48	44	7	99
Not Reported		3	0	3	0	11	0	11
% Minority		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

SEM MASTERS DEGREES

	1991	1992	1993	1994	1995	1994-1995 % Change	1991-1995 % Change
KSU							
Science	113	147	143	175	151	-14%	34%
Engineering	64	70	67	76	114	50%	78%
Math	2	7	4	9	4	-56%	100%
Subtotal	179	224	214	260	269	3%	50%
KU-Lawrence							
Science	129	143	119	144	142	-1%	10%
Engineering	94	112	116	95	118	24%	26%
Math	12	14	6	12	9	-25%	-25%
Subtotal	235	269	241	251	269	7%	14%
WSU							
Science	91	78	164	190	194	2%	113%
Engineering	53	48	48	78	87	12%	64%
Math	1	2	8	8	9	13%	800%
Subtotal	145	128	220	276	290	5%	100%
KU, KSU, AND WSU COMBINED							
Science	333	368	426	509	487	-4%	46%
Engineering	211	230	231	249	319	28%	51%
Math	15	23	18	29	22	-24%	47%
TOTAL	559	621	675	787	828	5%	48%

MASTERS DEGREES EARNED BY WOMEN

KSU						1994-1995	1991-1995
	1991	1992	1993	1994	1995	% Change	% Change
Science	47	59	62	75	67	-11%	43%
Engineering	7	6	7	9	24	167%	243%
Math	0	1	3	6	2	-67%	ERR
Subtotal	54	66	72	90	93	3%	72%

KU-Lawrence						1994-1995	1991-1995
	1991	1992	1993	1994	1995	% Change	% Change
Science	64	59	60	74	73	-1%	14%
Engineering	7	17	16	12	15	25%	114%
Math	6	5	2	4	4	0%	-33%
Subtotal	77	81	78	90	92	2%	19%

WSU						1994-1995	1991-1995
	1991	1992	1993	1994	1995	% Change	% Change
Science	73	52	132	138	144	4%	97%
Engineering	6	3	2	4	16	300%	167%
Math	0	0	1	5	3	-40%	ERR
Subtotal	79	55	135	147	163	11%	106%

KU, KSU, AND WSU COMBINED						1994-1995	1991-1995
	1991	1992	1993	1994	1995	% Change	% Change
Science	184	170	254	287	284	-1%	54%
Engineering	20	26	25	25	55	120%	175%
Math	6	6	6	15	9	-40%	50%
TOTAL	210	202	285	327	348	6%	66%

MASTERS DEGREES: MINORITIES

KSU*	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science					2	*	*
Engineering	2	3	1	1	10	900%	-50%
Math					0		
Subtotal	2	3	1	1	12		

KU-Lawrence	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	4	3	6	7	4	-43%	0%
Engineering	6	1	5	4	2	-50%	-67%
Math	0	0	0	0	1	ERR	ERR
Subtotal	10	4	11	11	7	-36%	-30%

WSU	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	1	5	14	11	14	27%	1300%
Engineering	3	3	7	6	3	-50%	0%
Math	0	0	1	0	1	ERR	ERR
Subtotal	4	8	22	17	18	6%	350%

KSU, KU, AND WSU COMBINED	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	5	8	20	18	20	*	*
Engineering	11	7	13	11	15	36%	36%
Math	0	0	1	0	2		
TOTAL	16	15	34	29	37		

*1991-1994 KSU ethnic data for science and math are not available from institution's database.

SEM BACHELOR DEGREES

	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
KSU							
Science	571	429	721	788	745	-5%	30%
Engineering	352	618	416	403	387	-4%	10%
Math	12	19	7	12	15	25%	25%
Subtotal	935	1,066	1,144	1,203	1,147	-5%	23%
KU-Lawrence							
	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	894	1,037	1,078	1,091	1,096	0%	23%
Engineering	283	239	295	311	293	-6%	4%
Math	33	26	26	31	18	-42%	-45%
Subtotal	1,210	1,302	1,399	1,433	1,407	-2%	16%
WSU							
	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	421	456	333	375	399	6%	-5%
Engineering	143	285	147	182	169	-7%	18%
Math	14	14	16	12	18	50%	29%
Subtotal	578	755	496	569	586	3%	1%
KSU, KU, AND WSU COMBINED							
	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	1,886	1,922	2,132	2,254	2,240	-1%	19%
Engineering	778	1,142	858	896	849	-5%	9%
Math	59	59	49	55	51	-7%	-14%
TOTAL	2,723	3,123	3,039	3,205	3,140	-2%	15%

BACHELOR DEGREES EARNED BY WOMEN

KSU	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	223	248	338	343	296	-14%	33%
Engineering	44	56	55	53	50	-6%	14%
Math	4	7	6	5	3	-40%	-25%
Subtotal	271	311	399	401	349	-13%	29%

KU-Lawrence	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	459	516	555	556	579	4%	26%
Engineering	34	37	40	42	60	43%	76%
Math	12	10	9	9	5	-44%	-58%
Subtotal	505	563	604	607	644	6%	28%

WSU	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	312	325	206	226	238	5%	-24%
Engineering	15	30	17	19	21	11%	40%
Math	8	4	9	4	8	100%	0%
Subtotal	335	359	232	249	267	7%	-20%

KSU, KU, AND WSU COMBINED	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	994	1089	1099	1125	1113	-1%	12%
Engineering	93	123	112	114	131	15%	41%
Math	24	21	24	18	16	-11%	-33%
TOTAL	1,111	1,233	1,235	1,257	1,260	0%	13%

BACHELOR DEGREES: MINORITIES

KSU*	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science					37	*	*
Engineering	19	21	21	24	34	42%	26%
Math					3		
Subtotal	19	21	21	24	74		

KU-Lawrence	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	49	73	57	92	113	23%	131%
Engineering	21	21	18	20	13	-35%	-38%
Math	2	1	2	0	1	ERR	-50%
Subtotal	72	95	77	112	127	13%	76%

WSU	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	36	30	36	55	47	-15%	31%
Engineering	20	24	17	24	19	-21%	-5%
Math	0	2	3	3	2	-33%	ERR
Subtotal	56	56	56	82	68	-17%	21%

KSU, KU AND WSU COMBINED	1991	1992	1993	1994	1995	1994-1995	1991-1995
						% Change	% Change
Science	85	103	93	147	197	*	*
Engineering	60	66	56	68	66	-3%	
Math	2	3	5	3	6		
TOTAL	147	172	154	218	269		

*1991-1994 KSU ethnic data for science and math are not available from institution's database.

Appendix E
NSF Grant Activity

NSF GRANT ACTIVITY: PERCENT CHANGE

Funded plus Not Funded:

	Dollars:					'94 to 95	'91 to 95
	1991	1992	1993	1994	1995*	% Change	% Change
Science	\$24,646,160	\$35,931,420	\$23,528,711	\$35,015,844	\$47,225,611	35%	92%
Math	\$3,162,157	\$5,954,566	\$1,241,183	\$2,379,962	\$2,629,378	10%	-17%
Engineering	\$5,044,796	\$7,258,708	\$10,046,765	\$13,758,091	\$25,050,960	82%	397%
TOTAL	\$32,853,113	\$49,144,694	\$34,816,659	\$51,153,897	\$74,905,949	46%	128%
w/o NSF EPSCoR					\$71,469,949	40%	118%

	Number:					'94 to 95	'91 to 95
	1991	1992	1993	1994	1995*	% Change	% Change
Science	53	173	152	189	207	10%	291%
Math	35	46	21	34	27	-21%	-23%
Engineering	53	54	68	82	96	17%	81%
TOTAL	141	273	241	305	330	8%	134%

Funded:

	Dollars:					'94 to 95	'91 to 95
	1991	1992	1993	1994	1995*	% Change	% Change
Science	\$5,281,202	\$7,512,065	\$5,493,074	\$9,595,508	\$7,684,140	-20%	45%
Math	\$258,118	\$977,796	\$391,164	\$541,216	\$549,576	2%	113%
Engineering	\$470,403	\$689,266	\$2,028,060	\$1,152,649	\$4,141,731	259%	780%
TOTAL	\$6,009,723	\$9,179,127	\$7,912,298	\$11,289,373	\$12,375,447	10%	106%
w/o NSF EPSCoR					\$8,939,447	-21%	49%

	Number:					'94 to 95	'91 to 95
	1991	1992	1993	1994	1995*	% Change	% Change
Science	53	55	55	82	71	-13%	34%
Math	9	13	10	12	11	-8%	22%
Engineering	10	13	11	19	30	58%	200%
TOTAL	72	81	76	113	112	-1%	56%

* Some 1995 grants are still pending so data are incomplete. NSF EPSCoR = \$3,436,000

**1995 compared to 1992: percent change

NSF GRANTS AWARDED: PERCENT CHANGE

	1991	1992	1993	1994	1995 *	1991-1995 % Change
KSU						
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	\$572,467	451%
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	\$4,523,405	47%
KU						
Science	\$2,314,026	\$4,042,787	\$3,224,209	\$2,850,728	\$3,126,162	35%
Engineering	\$366,502	\$24,510	\$1,750,511	\$545,015	\$3,375,705	821%
Math	\$117,919	\$699,015	\$177,384	\$169,907	\$231,187	96%
TOTAL	\$2,798,447	\$4,766,312	\$5,152,104	\$3,565,650	\$6,733,054	141%
w/o NSF EPSCoR					\$3,297,054	18%
WSU						
Science	\$59,656	\$98,404	\$379,732	\$560,291	\$790,940	1226%
Engineering	\$0	\$239,212	\$110,453	\$10,505	\$193,559	ERR
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:						
Science	\$5,281,202	\$7,512,065	\$5,493,074	\$9,595,508	\$7,684,140	45%
Engineering	\$470,403	\$689,266	\$2,028,060	\$1,152,649	\$4,141,731	780%
Math	\$258,118	\$977,796	\$391,164	\$541,216	\$549,576	113%
TOTAL	\$6,009,723	\$9,179,127	\$7,912,298	\$11,289,373	\$12,375,447	106%
w/o NSF EPSCoR					\$8,939,447	49%

* Some grants still pending so dollars awarded could increase. KU engineering dollars include NSF EPSCoR

NUMBER AND DOLLARS FOR NSF GRANTS: FY 1995*

NUMBER					AMOUNT			
SCIENCE:	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	29	29	13	71	\$3,767,038	\$3,126,162	\$790,940	\$7,684,140
Not Funded	35	55	14	104	\$11,432,157	\$15,289,580	\$3,690,784	\$30,412,521
Pending	19	13	0	32	\$5,788,860	\$3,340,090	\$0	\$9,128,950
Total *	83	97	27	207	\$20,988,055	\$21,755,832	\$4,481,724	\$47,225,611
% Awarded	35%	30%	48%	34%	18%	14%	18%	16%
Avg. \$ Awarded					\$129,898	\$107,799	\$60,842	\$108,227
MATH								
Awarded	3	5	3	11	\$183,900	\$231,187	\$134,489	\$549,576
Not Funded	6	3	5	14	\$656,883	\$640,020	\$570,569	\$1,867,472
Pending	1	1	0	2	\$115,015	\$97,315	\$0	\$212,330
Total *	10	9	8	27	\$955,798	\$968,522	\$705,058	\$2,629,378
% Awarded	30%	56%	38%	41%	19%	24%	19%	21%
Avg. \$ Awarded					\$61,300	\$46,237	\$44,830	\$49,961
ENGINEERING								
Awarded	12	8	10	30	\$572,467	\$3,375,705	\$193,559	\$4,141,731
Not Funded	24	14	13	51	\$5,610,007	\$4,643,735	\$1,789,657	\$12,043,399
Pending	8	6	1	15	\$2,451,813	\$5,214,017	\$1,200,000	\$8,865,830
Total*	44	28	24	96	\$8,634,287	\$13,233,457	\$3,183,216	\$25,050,960
% Awarded	27%	29%	42%	31%	7%	26%	6%	17%
Avg. \$ Awarded					\$47,706	\$421,963	\$19,356	\$138,058
					w/o NSF EPSCoR	\$9,797,457		\$21,614,960
OTHER								
Awarded	2	2	0	4	\$104,910	\$57,462	\$0	\$162,372
Not Funded	3	2	0	5	\$7,909,390	\$208,608	\$0	\$8,117,998
Pending	2	1	0	3	\$4,229,180	\$49,700	\$0	\$4,278,880
Total*	7	5	0	12	\$12,243,480	\$315,770	\$0	\$12,559,250
% Awarded	29%	40%	ERR	33%	1%	18%	ERR	1%
Avg. \$ Awarded					\$52,455	\$28,731	ERR	\$40,593
SME TOTAL								
Awarded	44	42	26	112	\$4,523,405	\$6,733,054	\$1,118,988	\$12,375,447
Not Funded	65	72	32	169	\$17,699,047	\$20,573,335	\$6,051,010	\$44,323,392
Pending	28	20	1	49	\$8,355,688	\$8,651,422	\$1,200,000	\$18,207,110
Total*	137	134	59	330	\$30,578,140	\$35,957,811	\$8,369,998	\$74,905,949
% Awarded	32%	31%	44%	34%	15%	19%	13%	17%
Avg. \$ Awarded					\$102,805	\$160,311	\$43,038	\$110,495
					w/o NSF EPSCoR	\$32,521,811		\$71,469,949
SMEO TOTAL								
	KSU	KU	WSU	NUMBER	KSU	KU	WSU	AMOUNT
Awarded	46	44	26	116	\$4,628,315	\$6,790,516	\$1,118,988	\$12,537,819
Not Funded	68	74	32	174	\$25,608,437	\$20,781,943	\$6,051,010	\$52,441,390
Pending	30	21	1	52	\$12,584,868	\$8,701,122	\$1,200,000	\$22,485,990
Total	144	139	59	342	\$42,821,620	\$36,273,581	\$8,369,998	\$87,465,199
% Awarded	32%	32%	44%	34%	11%	19%	13%	14%
Avg. \$ Awarded					\$100,616	\$154,330	\$43,038	\$108,085

*Includes NSF EPSCoR. Total may not equal total \$ submitted since \$ awarded may not equal \$ submitted.

*KU data do not include Medical Center.

1995 data are incomplete due to grants still pending.

NUMBER AND DOLLARS FOR NSF GRANTS: FY 1994

NUMBER:					AMOUNT			
SCIENCE:	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	35	39	8	82	\$6,184,489	\$2,850,728	\$560,291	\$9,595,508
Not Funded	39	54	14	107	\$11,479,661	\$11,767,034	\$2,173,641	\$25,420,336
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total *	74	93	22	189	\$17,664,150	\$14,617,762	\$2,733,932	\$35,015,844
% Awarded	47%	42%	36%	43%	35%	20%	20%	27%
Avg. \$ Awarded					\$176,700	\$73,096	\$70,036	\$117,018
MATH	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	4	6	2	12	\$219,972	\$169,907	\$151,337	\$541,216
Not Funded	8	9	5	22	\$711,621	\$548,971	\$578,154	\$1,838,746
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total *	12	15	7	34	\$931,593	\$718,878	\$729,491	\$2,379,962
% Awarded	33%	40%	29%	35%	24%	24%	21%	23%
Avg. \$ Awarded					\$54,993	\$28,318	\$75,669	\$45,101
ENGINEERING	KSU	KU**	WSU	TOTAL	KSU	KU *	WSU	TOTAL
Awarded	11	7	1	19	\$597,129	\$545,015	\$10,505	\$1,152,649
Not Funded	26	18	19	63	\$3,983,237	\$6,186,435	\$2,435,770	\$12,605,442
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total*	37	25	20	82	\$4,580,366	\$6,731,450	\$2,446,275	\$13,758,091
% Awarded	30%	28%	5%	23%	13%	8%	0%	8%
Avg. \$ Awarded					\$54,284	\$77,859	\$10,505	\$60,666
OTHER	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	5	2	0	7	\$1,009,102	\$116,011	\$0	\$1,125,113
Not Funded	4	5	0	9	\$6,503,003	\$1,080,249	\$0	\$7,583,252
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total*	9	7	0	16	\$7,512,105	\$1,196,260	\$0	\$8,708,365
% Awarded	56%	29%	ERR	44%	13%	10%	ERR	13%
Avg. \$ Awarded					\$201,820	\$58,006	ERR	\$160,730
SME TOTAL	KSU	KU	WSU	TOTAL	KSU	KU *	WSU	TOTAL
Awarded	50	52	11	113	\$7,001,590	\$3,565,650	\$722,133	\$11,289,373
Not Funded	73	81	38	192	\$16,174,519	\$18,502,440	\$5,187,565	\$39,864,524
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total*	123	133	49	305	\$23,176,109	\$22,068,090	\$5,909,698	\$51,153,897
% Awarded	41%	39%	22%	37%	30%	16%	12%	22%
Avg. \$ Awarded					\$140,032	\$68,570	\$65,648	\$99,906
SMEO TOTAL	KSU	KU	WSU	NUMBER	KSU	KU *	WSU	AMOUNT
Awarded	55	54	11	120	\$8,010,692	\$3,681,661	\$722,133	\$12,414,486
Not Funded	77	86	38	201	\$22,677,522	\$19,582,689	\$5,187,565	\$47,447,776
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total	132	140	49	321	\$30,688,214	\$23,264,350	\$5,909,698	\$59,862,262
% Awarded	42%	39%	22%	37%	26%	16%	12%	21%
Avg. \$ Awarded					\$145,649	\$68,179	\$65,648	\$103,454

**Includes NSF EPSCoR. Total may not equal total \$ submitted since \$ awarded may not equal \$ submitted.

**KU data do not include Medical Center.

NUMBER AND DOLLARS FOR NSF GRANTS: FY 1993*

NUMBER					AMOUNT			
SCIENCE:	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	18	30	7	55	\$1,889,133	\$3,224,209	\$379,732	\$5,493,074
Not Funded	42	47	8	97	\$7,252,291	\$10,158,607	\$624,739	\$18,035,637
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total	60	77	15	152	\$9,141,424	\$13,382,816	\$1,004,471	\$23,528,711
% Awarded	30%	39%	47%	36%	21%	24%	38%	23%
Avg. \$ Awarded					\$104,952	\$107,474	\$54,247	\$99,874
MATH	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	2	5	3	10	\$40,668	\$177,384	\$173,112	\$391,164
Not Funded	5	5	1	11	\$530,759	\$303,537	\$15,723	\$850,019
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total	7	10	4	21	\$571,427	\$480,921	\$188,835	\$1,241,183
% Awarded	29%	50%	75%	48%	7%	37%	92%	32%
Avg. \$ Awarded					\$20,334	\$35,477	\$57,704	\$39,116
ENGINEERING	KSU	KU*	WSU	TOTAL	KSU	KU *	WSU	TOTAL
Awarded	3	6	2	11	\$167,096	\$1,750,511	\$110,453	\$2,028,060
Not Funded	30	14	13	57	\$4,797,565	\$2,232,572	\$988,568	\$8,018,705
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total	33	20	15	68	\$4,964,661	\$3,983,083	\$1,099,021	\$10,046,765
% Awarded	9%	30%	13%	16%	3%	44%	10%	20%
Avg. \$ Awarded					\$55,699	\$291,752	\$55,227	\$184,369
OTHER	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	5	1	2	8	\$263,716	\$378,437	\$117,643	\$759,796
Not Funded	13	5	0	18	\$1,886,435	\$1,434,139	\$0	\$3,320,574
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total	18	6	2	26	\$2,150,151	\$1,812,576	\$117,643	\$4,080,370
% Awarded	28%	17%	100%	31%	12%	21%	100%	19%
Avg. \$ Awarded					\$52,743	\$378,437	\$58,822	\$94,975
SME TOTAL	KSU	KU	WSU	TOTAL	KSU	KU *	WSU	TOTAL
Awarded	23	41	12	76	\$2,096,897	\$5,152,104	\$663,297	\$7,912,298
Not Funded	77	66	22	165	\$12,580,615	\$12,694,716	\$1,629,030	\$26,904,361
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total	100	107	34	241	\$14,677,512	\$17,846,820	\$2,292,327	\$34,816,659
% Awarded	23%	38%	35%	32%	14%	29%	29%	23%
Avg. \$ Awarded					\$91,169	\$125,661	\$55,275	\$104,109
SMEO TOTAL	KSU	KU	WSU	NUMBER	KSU	KU *	WSU	AMOUNT
Awarded	28	42	14	84	\$2,360,613	\$5,530,541	\$780,940	\$8,672,094
Not Funded	90	71	22	183	\$14,467,050	\$14,128,855	\$1,629,030	\$30,224,935
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total	118	113	36	267	\$16,827,663	\$19,659,396	\$2,409,970	\$38,897,029
% Awarded	24%	37%	39%	31%	14%	28%	32%	22%
Avg. \$ Awarded					\$84,308	\$131,680	\$55,781	\$103,239

*Includes NSF EPSCoR. Total may not equal total \$ submitted since \$ awarded may not equal \$ submitted.

*KU data do not include Medical Center.

NUMBER AND DOLLARS FOR NSF GRANTS: FY 1992 *

	NUMBER:				AMOUNT			
SCIENCE:	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	22	30	3	55	\$3,370,874	\$4,042,787	\$98,404	\$7,512,065
Not Funded	39	65	14	118	\$7,360,841	\$17,940,115	\$3,118,399	\$28,419,355
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total	61	95	17	173	\$10,731,715	\$21,982,902	\$3,216,803	\$35,931,420
% Awarded	36%	32%	18%	32%	31%	18%	3%	21%
Avg. \$ Awarded					\$153,222	\$134,760	\$32,801	\$136,583
MATH	KSU*	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	5	6	2	13	\$135,134	\$699,015	\$143,647	\$977,796
Not Funded	14	8	11	33	\$3,358,040	\$744,035	\$874,695	\$4,976,770
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total	19	14	13	46	\$3,493,174	\$1,443,050	\$1,018,342	\$5,954,566
% Awarded	26%	43%	15%	28%	4%	48%	14%	16%
Avg. \$ Awarded	** Includes statistics				\$27,027	\$116,503	\$71,824	\$75,215
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	11	4	41	\$4,538,113	\$1,861,184	\$170,145	\$6,569,442
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total	32	13	9	54	\$4,963,657	\$1,885,694	\$409,357	\$7,258,708
% Awarded	19%	15%	56%	24%	9%	1%	58%	9%
Avg. \$ Awarded					\$70,924	\$12,255	\$47,842	\$53,020
OTHER	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	6	2	0	8	\$1,329,891	\$28,975	\$0	\$1,358,866
Not Funded	5	3	1	9	\$3,220,447	\$293,335	\$634,098	\$4,147,880
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total	11	5	1	17	\$4,550,338	\$322,310	\$634,098	\$5,506,746
% Awarded	55%	40%	0%	47%	29%	9%	0%	25%
Avg. \$ Awarded					\$221,649	\$14,488		\$169,858
SME TOTAL	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	33	38	10	81	\$3,931,552	\$4,766,312	\$481,263	\$9,179,127
Not Funded	79	84	29	192	\$15,256,994	\$20,545,334	\$4,163,239	\$39,965,567
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total	112	122	39	273	\$19,188,546	\$25,311,646	\$4,644,502	\$49,144,694
% Awarded	29%	31%	26%	30%	20%	19%	10%	19%
Avg. \$ Awarded					\$119,138	\$125,429	\$48,126	\$113,323
SMEO TOTAL	KSU	KU	WSU	NUMBER	KSU	KU **	WSU	AMOUNT
Awarded	39	40	10	89	\$5,261,443	\$4,795,287	\$481,263	\$10,537,993
Not Funded	84	87	30	201	\$18,477,441	\$20,838,669	\$4,797,337	\$44,113,447
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total	123	127	40	290	\$23,738,884	\$25,633,956	\$5,278,600	\$54,651,440
% Awarded	32%	31%	25%	31%	22%	19%	9%	19%
Avg. \$ Awarded					\$134,909	\$119,882	\$48,126	\$118,404

*Includes NSF EPSCoR. Total may not equal total \$ submitted since \$ awarded may not equal \$ submitted.

*KU data do not include Medical Center.

NUMBER AND DOLLARS FOR NSF GRANTS: FY 1991

	NUMBER:				AMOUNT			
SCIENCE:	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	23	29	1	53	\$2,907,520	\$2,314,026	\$59,656	\$5,281,202
Not Funded	32	54	10	96	\$5,323,489	\$9,608,102	\$4,433,367	\$19,364,958
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total	55	83	11	53	\$8,231,009	\$11,922,128	\$4,493,023	\$24,646,160
% Awarded	42%	35%	9%	100%	35%	19%	1%	21%
Avg. \$ Awarded					\$126,414	\$79,794	\$59,656	\$99,645
MATH	KSU*	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	3	4	2	9	\$73,445	\$117,919	\$66,754	\$258,118
Not Funded	13	10	3	26	\$1,708,067	\$1,106,845	\$89,127	\$2,904,039
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total	16	14	5	35	\$1,781,512	\$1,224,764	\$155,881	\$3,162,157
% Awarded	19%	29%	40%	26%	4%	10%	43%	8%
Avg. \$ Awarded					\$24,482	\$29,480	\$33,377	\$28,680
								* Includes statistics
ENGINEERING	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	4	6	0	10	\$103,901	\$366,502	\$0	\$470,403
Not Funded	20	16	7	43	\$1,733,744	\$1,717,203	\$1,123,446	\$4,574,393
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total	24	22	7	53	\$1,837,645	\$2,083,705	\$1,123,446	\$5,044,796
% Awarded	17%	27%	0%	19%	6%	18%	0%	9%
Avg. \$ Awarded					\$25,975	\$61,084	\$0	\$47,040
OTHER	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	4	2	1	7	\$333,238	\$605,360	\$92,009	\$1,030,607
Not Funded	8	5	0	13	\$1,896,949	\$570,077	\$0	\$2,467,026
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total	12	7	1	20	\$2,230,187	\$1,175,437	\$92,009	\$3,497,633
% Awarded	33%	29%	100%	35%	15%	52%	100%	29%
Avg. \$ Awarded					\$83,310	\$302,680	\$92,009	\$147,230
SME TOTAL	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	30	39	3	72	\$3,084,866	\$2,798,447	\$126,410	\$6,009,723
Not Funded	65	80	20	165	\$8,765,300	\$12,432,150	\$5,645,940	\$26,843,390
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total	95	119	23	237	\$11,850,166	\$15,230,597	\$5,772,350	\$32,853,113
% Awarded	32%	33%	13%	30%	26%	18%	2%	18%
Avg. \$ Awarded					\$102,829	\$71,755	\$42,137	\$83,468
SMEO TOTAL	KSU	KU	WSU	NUMBER	KSU	KU	WSU	AMOUNT
Awarded	34	41	4	79	\$3,418,104	\$3,403,807	\$218,419	\$7,040,330
Not Funded	73	85	20	178	\$10,662,249	\$13,002,227	\$5,645,940	\$29,310,416
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total	107	126	24	257	\$14,080,353	\$16,406,034	\$5,864,359	\$36,350,746
% Awarded	32%	33%	17%	31%	24%	21%	4%	19%
Avg. \$ Awarded					\$100,532	\$83,020	\$54,605	\$89,118

*Includes NSF EPSCoR. Total may not equal total \$ submitted since \$ awarded may be less than \$ submitted.

KU data do not include Med. Center.

Appendix F

Total Grant Activity

GRANT ACTIVITY ACROSS ALL AGENCIES: PERCENT CHANGE

Funded plus Not Funded:

	Dollars:					'94 to '95	'91 to '95
	1991	1992	1993	1994	1995*	% Change	% Change
Science	\$115,545,909	\$144,557,533	\$126,321,749	\$163,557,672	\$173,239,043	6%	50%
Math	\$3,549,641	\$3,740,913	\$2,493,743	\$3,992,524	\$3,549,487	-11%	-0%
Engineering	\$16,166,830	\$35,001,028	\$41,919,172	\$73,802,361	\$60,986,800	-17%	277%
TOTAL	\$135,262,380	\$183,299,474	\$170,734,664	\$241,352,557	\$237,775,330	-1%	76%
w/o NSF EPSCoR					\$234,339,330	-3%	73%

	Number:					'94 to '95	'91 to '95
	1991	1992	1993	1994	1995*	% Change	% Change
Science	996	1,239	1,325	1,324	1,319	-0%	32%
Math	38	57	33	53	41	-23%	8%
Engineering	255	359	360	449	395	-12%	55%
TOTAL	1,289	1,655	1,718	1,826	1,755	-4%	36%

Funded:

	Dollars:					'94 to '95	'91 to '95
	1991	1992	1993	1994	1995*	% Change	% Change
Science	\$44,777,307	\$54,160,045	\$49,530,343	\$53,700,820	\$44,342,331	-17%	-1%
Math	\$407,662	\$1,268,470	\$448,657	\$601,826	\$639,032	6%	57%
Engineer	\$6,200,573	\$12,077,247	\$13,818,151	\$16,771,871	\$16,211,982	-3%	161%
TOTAL	\$51,385,542	\$67,505,762	\$63,797,151	\$71,074,517	\$61,193,345	-14%	19%
w/o NSF EPSCoR					\$57,757,345	-19%	12%

	Number:					'94 to '95	'91 to '95
	1991	1992	1993	1994	1995*	% Change	% Change
Science	535	668	748	756	675	-11%	26%
Math	11	25	13	15	15	0%	36%
Engineer	151	195	203	191	199	4%	32%
TOTAL	697	888	964	962	889	-8%	28%

* Some 1995 grants are still pending so data are incomplete. NSF EPSCoR = \$3,436,000

**1995 compared to 1992: percent change

TOTAL GRANTS AWARDED: PERCENT CHANGE

						1991-1995
KSU	1991	1992	1993	1994	1995 *	% Change
Science	\$17,163,755	\$23,830,079	\$19,780,635	\$22,608,826	\$17,229,095	0%
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	\$21,051,837	12%
KU	1991	1992	1993	1994	1995 *	% Change
Science	\$26,635,884	\$29,258,075	\$28,581,386	\$28,697,341	\$25,518,433	-4%
Engineering	\$3,507,199	\$5,547,943	\$8,739,476	\$7,898,823	\$11,119,076	217%
Math	\$117,919	\$745,197	\$257,377	\$230,517	\$320,643	172%
TOTAL	\$30,261,002	\$35,551,215	\$37,578,239	\$36,826,681	\$36,958,152	22%
w/o NSF EPSCoR					\$33,522,152	11%
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	\$44,777,307	\$54,160,045	\$49,530,343	\$53,700,820	\$44,342,331	-1%
Engineering	\$6,200,573	\$12,077,247	\$13,818,151	\$16,771,871	\$16,211,982	161%
Math	\$407,662	\$1,268,470	\$448,657	\$601,826	\$639,032	57%
TOTAL	\$51,385,542	\$67,505,762	\$63,797,151	\$71,074,517	\$61,193,345	19%
w/o NSF EPSC					\$57,757,345	12%

* Some grants are still pending so dollars awarded could increase.

TOTAL GRANTS: FY 1995 **

SCIENCE:	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	291	344	40	675	\$17,229,095	\$25,518,433	\$1,594,803	\$44,342,331
Rejected	121	138	48	307	\$36,993,653	\$29,081,275	\$7,255,895	\$73,330,823
Pending	185	152	0	337	\$35,580,532	\$19,985,357	\$0	\$55,565,889
Total *	597	634	88	1,319	\$89,803,280	\$74,585,065	\$8,850,698	\$173,239,043
% Awarded	48.7%	54.3%	45.5%	51.2%	19.2%	34.2%	18.0%	25.6%

MATH	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	3	9	3	15	\$183,900	\$320,643	\$134,489	\$639,032
Rejected	8	5	8	21	\$870,089	\$686,017	\$828,501	\$2,384,607
Pending	2	3	0	5	\$297,192	\$228,656	\$0	\$525,848
Total *	13	17	11	41	\$1,351,181	\$1,235,316	\$962,990	\$3,549,487
% Awarded	23.1%	52.9%	27.3%	36.6%	13.6%	26.0%	14.0%	18.0%

ENGINEERING	KSU	KU	WSU	TOTAL	KSU	KU**	WSU	TOTAL
Awarded	70	94	35	199	\$3,638,842	\$11,119,076	\$1,454,064	\$16,211,982
Rejected	34	49	27	110	\$8,095,141	\$9,462,314	\$7,085,803	\$24,643,258
Pending	38	47	1	86	\$7,970,034	\$10,961,526	\$1,200,000	\$20,131,560
Total *	142	190	63	395	\$19,704,017	\$31,542,916	\$9,739,867	\$60,986,800
% Awarded	49.3%	49.5%	55.6%	50.4%	18.5%	35.3%	14.9%	26.6%

w/o NSF EPSCoR	Awarded	\$7,683,076	\$12,775,982
	Total	\$28,106,916	\$57,550,800
	% Awarded	27.3%	22.2%

SME TOTAL	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	364	447	78	889	\$21,051,837	\$36,958,152	\$3,183,356	\$61,193,345
Rejected	163	192	83	438	\$45,958,883	\$39,229,606	\$15,170,199	\$100,358,688
Pending	225	202	1	428	\$43,847,758	\$31,175,539	\$1,200,000	\$76,223,297
Total *	752	841	162	1,755	\$110,858,478	\$107,363,297	\$19,553,555	\$237,775,330
% Awarded	48.4%	53.2%	48.1%	50.7%	19.0%	34.4%	16.3%	25.7%

w/o NSF EPSCoR	Awarded	\$33,522,152	\$57,757,345
	Total	\$103,927,297	\$234,339,330
	% Awarded	32.3%	24.6%

* Total may not equal total \$ submitted since \$ awarded may be less than \$ submitted.

KU data do not include Medical Center.

** 1995 data incomplete due to grants still pending. KU engineering data include NSF EPSCoR

TOTAL GRANTS: FY 1994

SCIENCE:	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	358	357	41	756	\$22,608,826	\$28,697,341	\$2,394,653	\$53,700,820
Rejected	264	262	42	568	\$69,017,337	\$34,977,909	\$5,861,606	\$109,856,852
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total *	622	619	83	1,324	\$91,626,163	\$63,675,250	\$8,256,259	\$163,557,672
% Awarded	57.6%	57.7%	49.4%	57.1%	24.7%	45.1%	29.0%	32.8%

MATH:	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	4	9	2	15	\$219,972	\$230,517	\$151,337	\$601,826
Rejected	15	16	7	38	\$1,613,757	\$982,339	\$794,602	\$3,390,698
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total *	19	25	9	53	\$1,833,729	\$1,212,856	\$945,939	\$3,992,524
% Awarded	21.1%	36.0%	22.2%	28.3%	12.0%	19.0%	16.0%	15.1%

ENGINEERING:	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	88	87	16	191	\$8,305,309	\$7,898,823	\$567,739	\$16,771,871
Rejected	99	96	63	258	\$24,022,749	\$21,297,125	\$11,710,616	\$57,030,490
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total *	187	183	79	449	\$32,328,058	\$29,195,948	\$12,278,355	\$73,802,361
% Awarded	47.1%	47.5%	20.3%	42.5%	25.7%	27.1%	4.6%	22.7%

SME TOTAL	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	450	453	59	962	\$31,134,107	\$36,826,681	\$3,113,729	\$71,074,517
Rejected	378	374	112	864	\$94,653,843	\$57,257,373	\$18,366,824	\$170,278,040
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total *	828	827	171	1,826	\$125,787,950	\$94,084,054	\$21,480,553	\$241,352,557
% Awarded	54.3%	54.8%	34.5%	52.7%	24.8%	39.1%	14.5%	29.4%

* Total may not equal total \$ submitted since \$ awarded may be less than \$ submitted.

KU data do not include Medical Center.

TOTAL GRANTS: FY 1993

SCIENCE:	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	346	367	35	748	\$19,780,635	\$28,581,386	\$1,168,322	\$49,530,343
Rejected	288	247	42	577	\$40,412,252	\$32,423,372	\$3,955,782	\$76,791,406
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total *	634	614	77	1,325	\$60,192,887	\$61,004,758	\$5,124,104	\$126,321,749
% Awarded	54.6%	59.8%	45.5%	56.5%	32.9%	46.9%	22.8%	39.2%

MATH	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	1	9	3	13	\$18,168	\$257,377	\$173,112	\$448,657
Rejected	12	6	2	20	\$1,534,427	\$361,418	\$149,241	\$2,045,086
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total *	13	15	5	33	\$1,552,595	\$618,795	\$322,353	\$2,493,743
% Awarded	7.7%	60.0%	60.0%	39.4%	1.2%	41.6%	53.7%	18.0%

ENGINEERING	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	71	102	30	203	\$3,387,740	\$8,739,476	\$1,690,935	\$13,818,151
Rejected	66	58	33	157	\$13,897,304	\$8,344,032	\$5,859,685	\$28,101,021
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total *	137	160	63	360	\$17,285,044	\$17,083,508	\$7,550,620	\$41,919,172
% Awarded	51.8%	63.8%	47.6%	56.4%	19.6%	51.2%	22.4%	33.0%

SME TOTAL	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	418	478	68	964	\$23,186,543	\$37,578,239	\$3,032,369	\$63,797,151
Rejected	366	311	77	754	\$55,843,983	\$41,128,822	\$9,964,708	\$106,937,513
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total *	784	789	145	1,718	\$79,030,526	\$78,707,061	\$12,997,077	\$170,734,664
% Awarded	53.3%	60.6%	46.9%	56.1%	29.3%	47.7%	23.3%	37.4%

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 KU data do not include Medical Center.

TOTAL GRANTS: FY 1992

SCIENCE:	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	313	326	29	668	\$23,830,079	\$29,258,075	\$1,071,891	\$54,160,045
Rejected	261	271	39	571	\$40,383,856	\$43,707,888	\$6,305,744	\$90,397,488
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total *	574	597	68	1,239	\$64,213,935	\$72,965,963	\$7,377,635	\$144,557,533
% Awarded	54.5%	54.6%	42.6%	53.9%	37.1%	40.1%	14.5%	37.5%

MATH:	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	10	9	6	25	\$248,415	\$745,197	\$274,858	\$1,268,470
Rejected	17	9	6	32	\$1,415,917	\$762,209	\$294,317	\$2,472,443
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total *	27	18	12	57	\$1,664,332	\$1,507,406	\$569,175	\$3,740,913
% Awarded	37.0%	50.0%	50.0%	43.9%	14.9%	49.4%	48.3%	33.9%

ENGINEERING:	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	75	91	29	195	\$4,398,110	\$5,547,943	\$2,131,194	\$12,077,247
Rejected	89	44	31	164	\$14,033,840	\$4,823,410	\$4,066,531	\$22,923,781
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total *	164	135	60	359	\$18,431,950	\$10,371,353	\$6,197,725	\$35,001,028
% Awarded	45.7%	67.4%	48.3%	54.3%	23.9%	53.5%	34.4%	34.5%

SME TOTAL	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	398	426	64	888	\$28,476,604	\$35,551,215	\$3,477,943	\$67,505,762
Rejected	367	324	76	767	\$55,833,613	\$49,293,507	\$10,666,592	\$115,793,712
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total *	765	750	140	1,655	\$84,310,217	\$84,844,722	\$14,144,535	\$183,299,474
% Awarded	52.0%	56.8%	45.7%	53.7%	33.8%	41.9%	24.6%	36.8%

* Total may not equal total \$ submitted since \$ awarded may be less than \$ submitted.

KU data do not include Medical Center.

TOTAL GRANTS: FY 1991

SCIENCE:	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	208	299	28	535	\$17,163,755	\$26,635,884	\$977,668	\$44,777,307
Rejected	204	223	34	461	\$30,787,172	\$29,754,705	\$10,226,725	\$70,768,602
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total *	412	522	62	996	\$47,950,927	\$56,390,589	\$11,204,393	\$115,545,909
% Awarded	50.5%	57.3%	45.2%	53.7%	35.8%	47.2%	8.7%	38.8%

MATH:	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	3	4	4	11	\$73,445	\$117,919	\$216,298	\$407,662
Rejected	9	12	6	27	\$1,446,482	\$1,287,543	\$407,954	\$3,141,979
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total *	12	16	10	38	\$1,519,927	\$1,405,462	\$624,252	\$3,549,641
% Awarded	25.0%	25.0%	40.0%	28.9%	4.8%	8.4%	34.6%	11.5%

ENGINEERING:	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	35	85	31	151	\$1,496,124	\$3,507,199	\$1,197,250	\$6,200,573
Rejected	34	54	16	104	\$3,807,567	\$3,945,256	\$2,213,434	\$9,966,257
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total *	69	139	47	255	\$5,303,691	\$7,452,455	\$3,410,684	\$16,166,830
% Awarded	50.7%	61.2%	66.0%	59.2%	28.2%	47.1%	35.1%	38.4%

SME TOTAL	NUMBER				AMOUNT			
	KSU	KU	WSU	TOTAL	KSU	KU	WSU	TOTAL
Awarded	246	388	63	697	\$18,733,324	\$30,261,002	\$2,391,216	\$51,385,542
Rejected	247	289	56	592	\$36,041,221	\$34,987,504	\$12,848,113	\$83,876,838
Pending	0	0	0	0	\$0	\$0	\$0	\$0
Total *	493	677	119	1,289	\$54,774,545	\$65,248,506	\$15,239,329	\$135,262,380
% Awarded	49.9%	57.3%	52.9%	54.1%	34.2%	46.4%	15.7%	38.0%

* Total may not equal total \$ submitted since \$ awarded may be less than \$ submitted.
 KU data do not include Medical Center.

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.
Subramaniam, 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