

DOCUMENT RESUME

ED 363 203

HE 026 813

AUTHOR Williams, Donna J.; Krakower, Jack  
 TITLE Institutional Goals Ranking Report, 1993.  
 INSTITUTION Association of American Medical Colleges, Washington, D. C.  
 PUB DATE Oct 93  
 NOTE 27p.  
 AVAILABLE FROM Association of American Medical Colleges, 2450 N. Street, N.W., Washington, DC 20037-1126 (free).  
 PUB TYPE Reports - Descriptive (141) -- Statistical Data (110)

EDRS PRICE MF01/PC02 Plus Postage.  
 DESCRIPTORS Comparative Analysis; \*Federal Aid; \*Graduate Medical Education; Higher Education; Institutional Mission; \*Medical School Faculty; \*Medical Schools; \*Minority Groups; Organizational Objectives; \*Primary Health Care; Professional Education; Research; Tables (Data)

ABSTRACT

Missions of medical schools include teaching, research, and patient care, but these missions can vary greatly in importance between schools. Schools may also pursue more specific goals in addition to the traditional ones. Additional goals may include production of primary care physicians, recruitment of underrepresented minorities into the medical profession, production of practicing physicians for the state or region, or production of academic physicians. These variances make single-criterion ranking of medical schools difficult and of limited utility. This report provides objective data for comparing schools on various measures, each of which may reflect an important medical school goal for some institutions. The measures included in the current report are contained in five tables which detail: (1) percent of graduates entering primary care specialties (family practice, general pediatrics, and general internal medicine); (2) percent of graduates accepting in-state residencies; (3) percent of graduates who become medical school faculty; (4) percent of graduates who are members of underrepresented minorities; and (5) total federal research grants and contracts. (GLR)

\*\*\*\*\*  
 \* Reproductions supplied by EDRS are the best that can be made \*  
 \* from the original document. \*  
 \*\*\*\*\*

# 1993 INSTITUTIONAL GOALS RANKING REPORT

"PERMISSION TO REPRODUCE THIS  
MATERIAL HAS BEEN GRANTED BY

Association of American  
Medical Colleges

TO THE EDUCATIONAL RESOURCES  
INFORMATION CENTER (ERIC)."

U.S. DEPARTMENT OF EDUCATION  
Office of Educational Research and Improvement  
EDUCATIONAL RESOURCES INFORMATION  
CENTER (ERIC)

- This document has been reproduced as received from the person or organization originating it.
- Minor changes have been made to improve reproduction quality.

• Points of view or opinions stated in the document do not necessarily represent official OERI position or policy.

October, 1993

BEST COPY AVAILABLE



ASSOCIATION OF  
AMERICAN  
MEDICAL COLLEGES

2450 N STREET, NW  
WASHINGTON, DC 20037-1126  
TELEPHONE (202) 828-0400

# 1993 INSTITUTIONAL GOALS RANKING REPORT

An AAMC Report Prepared by  
Donna J. Williams  
Jack Krakower, Ph.D.  
Section for Operational Studies

Contributions by Charles Killian and Brooke Whiting, Ph.D. are gratefully acknowledged.

Copyright, The Association of American Medical Colleges, 1993

# INSTITUTIONAL GOALS RANKING REPORT <sup>1</sup>

The mission of every medical school includes teaching, research and patient care, but the relative priorities and the approaches taken to pursue these objectives vary greatly among institutions. Differences in institutional goals make it of limited utility to rank all schools in the same way, according to a single criterion. For example, if a school's principal goal is to produce primary care physicians, then judging its effectiveness in terms of its research awards is clearly inappropriate.

Schools seek to pursue more specific goals in addition to the three traditional ones; additional goals may include production of primary care physicians, recruitment of underrepresented minorities into the medical profession, production of practicing physicians for the state or region, or production of academic physicians.

The Institutional Goals Ranking Report was developed to provide objective data for comparing schools on various measures, each of which may reflect an important medical school goal for some institutions. The measures included in the current report are:

- Percent of Graduates Entering Primary Care Specialties
- Percent of Graduates Accepting In-State Residencies
- Percent of Graduates Who Are Medical School Faculty
- Percent of Graduates Who Are Underrepresented Minorities
- Total Federal Research Grants and Contracts

For each of the five ranking categories, it was necessary to consider several alternative measures, and the alternative selected may not be optimal or may not even apply to your institution. The staff is, of course, willing to produce the standard ranking reports employing other criteria on request, based on any data which are not restricted or confidential.

---

<sup>1</sup>The schools in this report are rank-ordered on each institutional goal, but the reader should pay attention to the values of the criterion variable in each case as well as the rank. Especially near the middle of the distribution, a difference of one or two percentage points or a relatively few dollars could move an institution ten or even twenty places higher or lower in the rankings. The precision with which these figures are derived may be inadequate to rank the schools exactly. More importantly, even accurate differences which are slight are not of practical significance. Schools with the same percentages are given the same rank in this report.

We appreciate your comments on this report and any suggestions you may have for future editions. Please direct your comments and suggestions to Donna Williams or Jack Krakower, Ph.D.

## Percent of 1987, 1988, And 1989 Graduates Entering Primary Care Specialties

One of the principal goals of many medical schools is the production of primary care physicians. This is a difficult goal to quantify and measure for many reasons. First, one must decide what specialties to include in the primary care category. Typically, and in this report, we include the specialties of Family Practice, General Pediatrics, and General Internal Medicine. Second, even if we accept these specialties as constituting primary care, we are still faced with the task of obtaining valid and reliable data.

In our judgment, the best available data is that collected by the AAMC through its Census of Graduate Medical Education (CGME). The CGME tracks medical school graduates through their residencies and subspecialty fellowships. This is accomplished by conducting a survey with the teaching hospitals and the program directors of all residents and fellows in ACGME-approved residency training programs.

The report ranks schools based on the ratio of the sum of the number of graduates of U.S. medical schools in 1987, 1988, and 1989 entering primary care specialties to the *total* number of graduates during the same period. Graduates were included in one of the three primary care specialties if they completed a three-year residency program in pediatrics, family practice, or internal medicine and did not participate in a subspecialty program in the *fourth* year after they graduated. Three consecutive periods were chosen to minimize the effects of year-to-year fluctuations.

The inclusion/exclusion of individuals in primary care counts based on residency activity in the fourth year after graduation has a number of limitations. First, many people who subsequently practice in one of the primary care areas complete a fourth or fifth year of residency training to improve their skills. The selection criterion excludes these individuals from primary care counts. Of course, the selection criterion also excludes people who complete the required training for a subspecialty and then practice mostly in primary care.

Second, the way in which CGME data is used for this measure results in excluding individuals who do not complete training for any specialty after graduation. While the number of individuals who complete less than three years of residency training is relatively small, these people may be presumed to be practicing primary care medicine. Third, the selection criterion excludes individuals who serve as a chief resident in one of the primary care specialties in their fourth year of residency training. While AAMC data indicate that the majority of these individuals subsequently enter subspecialty training, some do practice primary care.

Within these limitations, the data indicate that twenty-four percent of all graduates of U.S. medical schools completed a third year residency in one of the primary care fields and did not begin subspecialty training. The rankings identify Morehouse as the school with the highest percentage (46.8%) of its graduates entering primary care fields. Southern Illinois ranks second (43.5%), and Wright State ranks third (39.9%) in this group.

It is important to note that very small percentage differences may result in substantial ranking differences. For example, in some cases a difference of just one percentage point can change a school's rank by more than ten places. Similarly, a difference of five percentage points can change a school's rank by more than 35 places. This means that schools with relatively small graduating classes may evidence dramatic fluctuations in their ranking from one year to the next.

During the three-year period the total number of graduates from U.S. medical schools entering a primary care specialty and not going into a subspecialty was 11,419. If the schools are ranked by the total *number* of graduates entering primary care, a much different group of schools would appear on top. Minnesota had the largest number (274) of graduates entering primary care specialties. Illinois (229 graduates) and Indiana (210 graduates) rank second and third, respectively, by the numerical criterion. Neither Illinois nor Indiana rank among the top forty when ranked by the percentage criterion. It should be noted that the reported total does not include graduates of foreign medical schools that enter into the primary fields.

The source of the CGME data that is used in this report is the AAMC Student and Applicant Information Management Systems (SAIMS). Questions about these data should be directed to Charles Killian, (202/828-0645).



## 1987, 1988, AND 1989 GRADUATES ENTERING PRIMARY CARE SPECIALITIES

SCHOOL	%	GRADUATES PRACTICING IN:				GRADUATES TOTAL	
		GRADUATES IN PRIMARY CARE	FAMILY PRACTICE	GENERAL INTERNAL MEDICINE	GENERAL PEDIATRICS		PRIMARY CARE TOTAL
1 MOREHOUSE	46.8		15	14	7	36	77
2 SOUTHERN ILLINOIS	43.5		58	21	8	87	200
3 WRIGHT STATE	39.9		71	26	11	108	271
4 MERCER	38.8		12	12	2	26	67
5 UC DAVIS	38.5		58	29	12	99	257
6 EAST CAROLINA	38.3		47	11	17	75	196
7 U OF WASHINGTON	37.5		112	58	13	183	488
8 EAST TENNESSEE	35.8		32	19	6	57	159
9 UC IRVINE	35.3		47	35	12	94	266
10 MINNESOTA	35.2		176	73	25	274	778
11 MARSHALL UNIV.	34.5		19	17	5	41	119
12 NEVADA	34.1		25	19	2	46	135
13 SOUTH DAKOTA	34.0		30	14	6	50	147
14 UC SAN DIEGO	33.6		59	31	24	114	339
15 NEBRASKA	33.3		74	23	26	123	369
16 NORTH DAKOTA	32.9		34	13	1	48	146
17 ARKANSAS	32.8		81	21	20	122	372
18 MICHIGAN STATE	32.5		51	30	17	98	302
19 COLORADO	32.1		57	44	19	120	374
20 UC SAN FRANCISCO	31.6		60	51	25	136	431
21 LOMA LINDA	31.4		77	27	18	122	389
22 EAST VIRGINIA	31.2		32	21	21	74	237
23 IOWA	30.9		104	25	16	145	470
24 MISSISSIPPI	29.8		58	22	18	98	329
25 UNIV OF SOUTH CAROLINA	29.7		23	19	9	51	172
26 MASSACHUSETTS	29.6		41	34	10	85	287
27 TENNESSEE	29.5		55	56	31	142	481
28 TEXAS HOUSTON	29.3		88	46	28	162	553
29 NEW MEXICO	29.2		37	17	10	64	219
29 MISSOURI - COLUMBIA	29.2		49	37	8	94	322
31 OREGON	29.1		34	28	15	77	265
32 VERMONT	28.8		34	16	25	75	260
33 CINCINNATI	28.5		77	45	33	155	543
34 HAWAII	28.4		5	24	19	48	169
35 RUSH MED COL	28.2		51	33	13	97	344
35 OHIO STATE	28.2		93	59	33	185	657
37 TX SAN ANTONIO	28.0		90	42	25	157	561
38 KENTUCKY	27.8		41	23	7	71	255
38 M.C. OHIO TOLEDO	27.8		60	34	17	111	400
40 KANSAS	27.7		90	38	23	151	546

SOURCE: AAMC Student and Applicant Information Management System (SAIMS). Primary Care is defined by family practice, general internal medicine and general pediatrics.

## 1987, 1988, AND 1989 GRADUATES ENTERING PRIMARY CARE SPECIALTIES

SCHOOL	%	GRADUATES PRACTICING IN:				GRADUATES TOTAL	
		GRADUATES IN PRIMARY CARE	FAMILY PRACTICE	GENERAL INTERNAL MEDICINE	GENERAL PEDIATRICS		PRIMARY CARE TOTAL
41 FLORIDA	27.4		36	36	19	91	332
41 SUNY- SYRACUSE	27.4		59	34	32	125	457
43 PENN STATE	27.3		30	21	19	70	256
44 M C OF PENN	27.0		44	35	15	94	348
45 ALABAMA	26.9		53	52	14	119	442
45 INDIANA	26.9		121	61	28	210	782
47 M C OF VIRGINIA	26.7		83	32	15	130	486
47 TEMPLE	26.7		67	55	17	139	521
49 NORTH CAROLINA	26.6		53	46	23	122	458
50 SOUTH ALABAMA	26.3		16	19	11	46	175
51 TEXAS A & M	26.2		23	6	8	37	141
52 SOUTHERN CALIF	26.1		46	55	19	120	460
53 MEHARRY	26.0		24	23	5	52	200
54 GEORGIA	25.9		67	46	19	132	509
55 M C OF WISCONSIN	25.8		60	51	28	139	538
55 ILLINOIS	25.8		99	100	30	229	889
57 MED U SOUTH CAROLINA	25.7		51	38	22	111	432
58 U CENTRAL DEL CARIBE	25.4		17	30	15	62	244
59 BOWMAN GRAY	25.4		28	28	22	78	307
60 PONCE - PUERTO RICO	25.2		5	22	2	29	115
61 LOUISVILLE	25.0		32	41	18	91	364
61 JEFFERSON	25.0		102	46	14	162	648
63 SOUTH FLORIDA	24.6		38	17	13	68	276
64 ARIZONA	24.3		34	16	14	64	263
65 WISCONSIN	24.2		68	26	16	110	454
66 CONNECTICUT	24.1		22	24	13	59	245
67 HOWARD	23.7		26	29	11	66	279
68 UMDNJ-R. W. JOHNSON	23.3		35	45	20	100	429
69 BROWN	23.1		17	28	10	55	233
69 OKLAHOMA	23.1		52	39	17	108	468
69 SAINT LOUIS	23.1		32	47	20	99	429
72 MARYLAND	23.0		32	53	13	98	426
72 GEORGE WASHINGTON	23.0		27	55	19	101	440
74 HAHNEMANN	22.9		36	62	13	111	485
75 SUNY - STONY BROOK	22.8		19	36	14	69	303
76 MISSOURI - KANSAS	22.1		17	33	8	58	263
77 WAYNE STATE	21.8		81	59	27	167	765
77 UMDNJ-NEW JERSEY	21.8		31	38	31	100	459
79 TEXAS GALVESTON	21.7		55	44	21	120	553
80 LOYOLA STRITCH	21.6		28	38	14	80	370

## 1987, 1988, AND 1989 GRADUATES ENTERING PRIMARY CARE SPECIALITIES

SCHOOL	%	GRADUATES PRACTICING IN:				GRADUATES TOTAL
		GRADUATES IN PRIMARY CARE	FAMILY PRACTICE	GENERAL INTERNAL MEDICINE	GENERAL PEDIATRICS	
81 LOUISIANA SHREVEPORT	21.5	21	28	10	59	274
81 ALBANY	21.5	30	32	20	82	381
81 TEXAS SOUTHWESTERN	21.5	39	56	35	130	605
84 TEXAS TECH	21.4	34	18	11	63	294
84 PUERTO RICO	21.4	31	20	40	91	425
84 NORTHEASTERN OHIO	21.4	20	27	11	58	271
84 CASE WESTERN RESERVE	21.4	21	49	21	91	426
84 ROCHESTER	21.4	15	38	10	63	295
89 SUNY - BUFFALO	21.3	37	28	25	90	422
89 TUFTS	21.3	15	57	19	91	427
91 PITTSBURGH	20.8	28	35	15	78	375
92 DARTMOUTH	20.7	16	13	10	39	188
92 EINSTEIN	20.7	17	59	30	106	512
94 UTAH	20.6	34	18	9	61	296
95 U OF VIRGINIA	20.3	36	26	20	82	404
96 CHICAGO MEDICAL	19.6	32	39	17	88	448
96 WEST VIRGINIA	19.6	25	15	7	47	240
98 UNIFORMED SERVICES	19.2	49	16	22	87	454
99 DUKE	19.1	21	25	16	62	324
99 U OF PENN.	19.1	19	41	24	84	439
101 NEW YORK MED	18.8	20	69	23	112	595
101 LOUISIANA NEW ORLEANS	18.8	35	34	25	94	500
103 BOSTON	18.2	15	50	17	82	450
103 EMORY	18.2	17	30	14	61	336
105 BAYLOR	18.1	39	27	20	86	476
105 NORTHWESTERN	18.1	13	51	27	91	504
107 MIAMI	17.9	29	49	16	94	524
108 CREIGHTON	17.7	18	28	12	58	328
109 UC LOS ANGELES	17.0	57	45	22	124	729
110 WASHINGTON UNIV	16.9	14	32	16	62	367
111 NEW YORK UNIV.	16.5	3	62	13	78	473
111 U OF CHICAGO	16.5	12	24	15	51	310
113 TULANE	16.4	12	36	25	73	445
113 U OF MICHIGAN	16.4	35	34	19	88	538
115 SUNY - BROOKLYN	16.1	15	55	34	104	647
116 MAYO	15.7	13	4	0	17	108
117 HARVARD	15.5	11	40	22	73	471
118 JOHNS HOPKINS	15.0	11	24	19	54	360
119 STANFORD	14.8	3	18	15	36	244
120 GEORGETOWN	14.5	23	48	18	89	613
121 CORNELL	14.4	8	26	8	42	292
122 COLUMBIA	13.5	5	36	19	60	446
123 YALE	13.4	6	19	12	37	277
124 MT SINAI	12.3	6	28	15	47	383
125 VANDERBILT	10.0	7	14	9	30	300

## **Percent of Graduates Accepting Residencies In-State**

An important goal of many medical schools, especially public medical schools, is producing physicians for their state. The ideal measure of this goal would be an index that reflected the number or percent of graduates actually practicing in the same state where they received their degree. Unfortunately, this information is not readily available to the AAMC or to the schools themselves.

What we do have available is a count of medical school graduates who have accepted residencies within the same state from which they will graduate. The Liaison Committee on Medical Education Questionnaire (LCME), Part II requires this information from the medical schools and the accompanying table relies on that data. It should be noted that the data for the Part II were reported in April 1992, before the actual graduation date; therefore graduation figures are estimated.

The University California-Irvine has the highest percentage of graduates accepting residencies in-state (85.7 percent) in 1992. The California schools, ranking 1, 2, 3, 4, and 9, hold five of the top ten places in the table. Their positions changed from the "1992 Institutional Goals Ranking Report," when they held four of the top ten places. New York schools have two schools in the top ten and they are both private schools; Einstein has 72.0 percent and Mt. Sinai has 67.4 percent of the graduates accepting residencies in-state. Schools in Louisiana hold two of the top 10 positions in this category with the percentage ranging from 72.0 percent for Louisiana-Shreveport to 70.9 percent for Louisiana-New Orleans.

The percent of graduates accepting residencies in-state for all schools is 45.4 for this year. The percent for private schools decreased from 41.5 last year to 40.7. Public schools increased their mean percentage from 48.1 in 1991 to 48.8 percent in 1992.

The reader should bear in mind that the number of students accepting residencies in a given state will be directly related to the number of available residency positions. Generally, it can be assumed that the states with largest populations will have the largest numbers of residency positions available. Therefore, schools located within the populous states are more likely to show a higher number and percentage of their graduates accepting in-state residencies.

**1992 GRADUATES ACCEPTING RESIDENCIES IN-STATE**

SCHOOL	% GRADUATES ACCEPTING RESIDENCIES IN-STATE	GRADUATES ACCEPTING RESIDENCIES IN-STATE	1992 GRADUATES (ESTIMATED)
1 UC IRVINE	85.7	72	84
2 SOUTHERN CALIF	82.9	121	146
3 UC SAN FRANCISCO	78.9	112	142
4 UC LOS ANGELES	76.3	119	156
5 SUNY-BROOKLYN	75.9	167	220
6 EINSTEIN	72.1	116	161
7 LOUISIANA SHREVEPORT	72.0	67	93
8 LOUISIANA NEW ORLEANS	70.9	117	165
9 LOMA LINDA	70.0	112	160
10 WAYNE STATE	69.7	177	254
11 MT SINAI	67.7	88	130
12 UC DAVIS	67.4	64	95
13 SUNY-STONY BROOK	64.4	67	104
14 PUERTO RICO	63.9	76	119
15 TEXAS HOUSTON	63.1	111	176
16 ARKANSAS	62.2	74	119
17 INDIANA	62.0	150	242
18 NORTHEASTERN OHIO	61.7	58	94
19 OHIO STATE	60.8	132	217
20 WRIGHT STATE	60.7	51	84
21 WEST VIRGINIA	59.5	44	74
22 NEW YORK MED	59.3	118	199
23 UC SAN DIEGO	58.7	74	126
24 TEXAS GALVESTON	58.2	106	182
25 ILLINOIS	57.9	162	280
26 NEW YORK UNIV.	57.6	83	144
27 SUNY-SYRACUSE	57.5	81	141
28 TEXAS A&M	57.1	24	42
29 OKLAHOMA	55.9	71	127
29 MINNESOTA	55.9	123	220
31 TEXAS SOUTHWESTERN	55.6	105	189
32 PENN STATE	54.8	51	93
33 MICHIGAN STATE	54.2	52	96
34 TEXAS TECH	53.8	50	93
35 TX SAN ANTONIO	53.3	106	199
35 M.C. OHIO TOLEDO	53.2	59	111
37 SOUTHERN ILLINOIS	53.0	35	66
38 SOUTH FLORIDA	51.7	46	89
39 MAYO	51.4	18	35
40 BAYLOR	51.2	85	166

SOURCE: LCME Questionnaire - Part II, 1991-92.

## 1992 GRADUATES ACCEPTING RESIDENCIES IN-STATE

SCHOOL	% GRADUATES ACCEPTING RESIDENCIES IN-STATE	GRADUATES ACCEPTING RESIDENCIES IN-STATE	1992 GRADUATES (ESTIMATED)
41 SOUTH ALABAMA	51.0	26	51
42 RUSH MED COL	50.5	54	107
43 MIAMI	50.4	71	141
44 TEMPLE	50.3	86	171
45 SUNY-BUFFALO	49.6	68	137
45 FLORIDA	49.6	57	115
47 LOYOLA STRITCH	49.2	61	124
48 MISSISSIPPI	48.3	42	87
49 HAWAII	48.1	25	52
50 MASSACHUSETTS	47.9	45	94
51 SOUTH DAKOTA	47.8	22	46
52 UMDNJ-NEW JERSEY	46.8	74	158
52 CASE WESTERN RESERVE	46.8	66	141
54 STANFORD	46.7	42	90
55 HAHNEMANN	46.5	74	159
55 EAST CAROLINA	46.5	33	71
57 EAST VIRGINIA	46.3	38	82
57 U OF PENN.	46.3	69	149
59 COLUMBIA	45.7	69	151
60 U OF MICHIGAN	45.5	97	213
61 EAST TENNESSEE	45.3	24	53
62 COLORADO	45.2	56	124
63 CINCINNATI	44.9	71	158
64 LOUISVILLE	44.0	48	109
65 ALABAMA	43.6	65	149
65 ARIZONA	43.6	44	101
67 NEBRASKA	43.4	56	129
68 NORTHWESTERN	42.5	71	167
68 CONNECTICUT	42.4	36	85
70 M.C. OF PENN.	42.3	47	111
71 HARVARD	42.2	68	161
72 MISSOURI-KANSAS CITY	42.1	40	95
73 TENNESSEE	42.0	58	138
74 EMORY	41.5	44	106
75 MED U SOUTH CAROLINA	41.2	56	136
76 TUFTS	40.9	61	149
76 PITTSBURGH	40.9	54	132
78 WISCONSIN	40.2	49	122
79 CORNELL	40.0	44	110
80 IOWA	39.5	66	167

\* Graduates from the University of Minnesota-Duluth, a 2-year school, are not reported and tracked separately from the University of Minnesota-Minneapolis.

**1992 GRADUATES ACCEPTING RESIDENCIES IN-STATE**

SCHOOL	% GRADUATES ACCEPTING RESIDENCIES IN-STATE	GRADUATES ACCEPTING RESIDENCIES IN-STATE	1992 GRADUATES (ESTIMATED)
81 GEORGIA	39.2	69	176
82 ROCHESTER	39.1	36	92
82 ALBANY	39.1	50	128
84 M.C. OF VIRGINIA	38.9	63	162
85 M.C. OF WISCONSIN	38.8	71	183
84 OREGON	38.7	36	93
87 JOHNS HOPKINS	38.5	42	109
87 MISSOURI-COLUMBIA	38.5	40	104
89 MICHIGAN	38.1	16	42
90 JEFFERSON	37.9	81	214
91 HOWARD	37.8	28	74
92 UTAH	37.5	36	96
93 CHICAGO MEDICAL	36.9	55	149
93 KANSAS	36.9	59	160
95 MARSHALL UNIV.	36.8	14	38
96 U OF WASHINGTON	35.7	55	154
96 UMDNJ-R. W. JOHNSON	35.7	51	143
98 WASHINGTON UNIV.	35.4	46	130
99 MARYLAND	35.3	53	150
100 KENTUCKY	34.5	30	87
101 U CENTRAL DEL CARIBE	34.4	21	61
101 NORTH CAROLINA	34.4	54	157
103 VANDERBILT	33.7	32	95
104 BOSTON	33.3	51	153
105 CREIGHTON	32.5	39	120
106 MERCER	32.4	12	37
107 BOWMAN GRAY	31.3	31	99
108 U OF CHICAGO	30.1	34	113
109 DUKE	29.6	29	98
110 ST LOUIS UNIV.	27.5	36	131
110 NORTH DAKOTA	27.5	14	51
112 UNIV OF SOUTH CAROLINA	27.1	16	59
113 U OF VIRGINIA	26.8	38	142
114 NEVADA	25.6	11	43
115 YALE	25.3	25	99
116 MOREHOUSE	25.0	6	24
117 BROWN	24.1	20	83
118 GEORGE WASHINGTON	21.4	33	154
119 TULANE	21.2	31	146
120 GEORGETOWN	20.2	39	193
121 NEW MEXICO	19.4	12	62
122 UNIFORM SERVICES	12.9	23	178
123 PONCE-PUERTO RICO	10.6	5	47
124 VERMONT	9.9	9	91
125 DARTMOUTH	7.3	5	69

## Percent of Graduates Who Are Faculty

One attribute that reflects the mission of a medical school and its academic orientation is the extent to which its graduates hold faculty positions. Several factors significantly influence how schools will rank on this dimension. An issue is whether schools are ranked on the *number* of their graduates holding faculty positions, or on the *percent* of graduates holding faculty positions.

The enclosed report ranks schools on the percent of graduates currently holding faculty positions at any medical school, including their school of graduation. The numerator in the ratio, "Graduates From 1979 to 1988 Who Are Faculty," was obtained from the AAMC Faculty Roster database in March 1993. The denominator, "Medical School Graduates," was obtained from the LCME Part II questionnaires. This ten-year period was considered the most recent upon which the denominator could be based in order to allow graduates to complete their residencies.

Johns Hopkins ranks first among U.S. medical schools with respect to the percentage of its graduates holding faculty positions (19.4 percent). Hopkins is followed by the University of Chicago (18.1 percent), Mayo (16.6 percent), the University of Pennsylvania (16.2 percent), and Duke (15.7 percent). It may be observed that a ranking based on the number of graduates holding faculty positions would produce a completely different set of "top five" schools. They would include Michigan (295), Illinois (287) the University of Pennsylvania (253), Einstein (249), Northwestern (239) and then Hopkins (228).

The number of alumni faculty for the ten-year period was 13,789 out of a total of 157,416 graduates or 8.8%. Private schools have a higher percentage than public schools with 10.2% of their graduates currently teaching at medical schools. Public schools produced slightly more faculty than private schools (7,217 versus 6,572) but their percentage of total graduates is lower at 7.8%.

Two limitations apply to the data reported in this table. First, the validity of the data and associated rankings are a function of the extent to which individual schools submit updates to the Faculty Roster. This varies from school to school. However, the overall accuracy of the database is estimated at between 85 and 90 percent. Second, many newer schools (for example, East Carolina, East Tennessee) produced few graduates in the early half of the decade between 1978-79 and 1987-88. Hence, their scores may not accurately reflect their commitment to this objective.



## 1979-88 GRADUATES WHO ARE FACULTY

SCHOOL	% GRADUATES WHO ARE FACULTY	GRADUATES WHO ARE FACULTY*	MED SCHOOL GRADUATES 1979-88**
1 JOHNS HOPKINS	19.4	228	1,174
2 U OF CHICAGO	18.1	189	1,047
3 MAYO	16.6	64	386
4 U OF PENN.	16.2	253	1,560
5 DUKE	15.7	181	1,150
6 ROCHESTER	15.4	152	987
7 YALE	15.0	151	1,009
8 COLUMBIA	14.7	217	1,472
9 EINSTEIN	14.3	249	1,736
10 SUNY-BUFFALO	13.9	176	1,263
11 NORTHWESTERN	13.5	239	1,775
12 U OF MICHIGAN	13.3	295	2,226
13 HARVARD	13.2	211	1,399
14 WASHINGTON UNIV.	13.0	170	1,307
15 VANDERBILT	12.9	129	998
15 NEW YORK UNIV.	12.9	225	1,743
17 MT SINAI	12.4	157	1,263
18 WEST VIRGINIA	12.3	104	849
19 PITTSBURGH	12.1	158	1,309
20 EMORY	11.9	139	1,164
21 MARSHALL UNIV.	11.6	32	275
21 U CENTRAL DEL CARIBE	11.6	44	379
23 TEXAS A & M	11.5	33	286
23 CORNELL	11.5	125	1,091
23 SUNY-STONY BROOK	11.5	87	760
26 CASE WESTERN RESERVE	11.4	169	489
27 FLORIDA	10.8	125	1,156
28 BAYLOR	10.7	173	1,623
28 ALBANY	10.7	135	1,267
30 SUNY-SYRACUSE	10.6	153	1,447
31 PENN STATE	10.4	97	932
31 LOYOLA STRITCH	10.4	131	1,258
33 OHIO STATE	10.3	218	2,119
34 CONNECTICUT	10.2	86	840
34 U OF VIRGINIA	10.2	136	1,331
34 STANFORD	10.2	79	777
37 CINCINNATI	9.8	183	1,865
37 SUNY-BROOKLYN	9.8	214	2,185
39 BOSTON	9.5	140	1,469
40 NORTH CAROLINA	9.4	144	1,532

\*SOURCE: Faculty Roster, 1993, AAMC.

\*\*SOURCE: LCME Questionnaire - Part II, 1978-79 to 1987-88.

## 1979-88 GRADUATES WHO ARE FACULTY

SCHOOL	% GRADUATES WHO ARE FACULTY	GRADUATES WHO ARE FACULTY*	MED SCHOOL GRADUATES 1979-88**
41 PUERTO RICO	9.4	133	1,423
42 RUSH MED COL	9.3	114	1,230
42 UMDNJ-R. W. JOHNSON	9.3	106	1,146
44 NEBRASKA	9.1	126	1,383
44 MISSOURI-KANSAS CITY	9.1	72	791
46 ILLINOIS	9.0	287	3,175
46 M.C. OF PENN.	9.0	107	1,186
46 MASSACHUSETTS	9.0	89	990
46 VERMONT	9.0	76	849
50 EAST CAROLINA	8.8	34	387
50 UNDNJ-NEW JERSEY	8.8	130	1,480
50 M.C. OHIO TOLEDO	8.8	103	1,174
53 M.C. OF VIRGINIA	8.7	143	1,638
53 NORTHEASTERN OHIO	8.7	51	588
55 UC SAN DIEGO	8.5	95	1,114
55 MIAMI	8.5	148	1,743
55 BROWN	8.5	59	697
58 UTAH	8.4	84	1,002
59 JEFFERSON	8.2	178	2,160
59 DARTMOUTH	8.2	47	575
59 TUFTS	8.2	123	1,507
62 MED U SOUTH CAROLINA	8.1	111	1,377
63 MARYLAND	8.0	134	1,676
64 CREIGHTON	7.9	87	1,096
64 MERCER	7.9	5	63
64 NEW YORK MED	7.9	157	1,982
64 HOWARD	7.9	86	1,089
68 WISCONSIN	7.8	121	1,555
69 WAYNE STATE	7.7	194	2,525
69 MISSISSIPPI	7.7	106	1,386
71 TEMPLE	7.6	135	1,779
71 SOUTH ALABAMA	7.6	48	633
71 GEORGE WASHINGTON	7.6	101	1,338
71 HAHNEMANN	7.6	133	1,761
75 KANSAS	7.5	132	1,758
76 TEXAS GALVESTON	7.4	142	1,923
76 GEORGIA	7.4	132	1,792
78 GEORGETOWN	7.3	149	2,042
78 SOUTHERN ILLINOIS	7.3	48	658
78 BOWMAN GRAY	7.3	75	1,033

## 1979-88 GRADUATES WHO ARE FACULTY

SCHOOL	% GRADUATES WHO ARE FACULTY	GRADUATES WHO ARE FACULTY*	MED SCHOOL GRADUATES 1979-88**
81 MISSOURI-COLUMBIA	7.2	79	1,092
81 LOUISVILLE	7.2	97	1,347
81 TEXAS SOUTHWESTERN	7.2	142	1,980
84 TX SAN ANTONIO	7.1	123	1,722
84 ST LOUIS UNIV.	7.1	106	1,495
84 TENNESSEE	7.1	125	1,764
84 ALABAMA	7.1	114	1,611
88 LOMA LINDA	6.9	96	1,390
88 ARKANSAS	6.9	88	1,281
88 INDIANA	6.8	196	2,867
88 LOUISIANA SHREVEPORT	6.8	64	946
92 KENTUCKY	6.7	67	1,005
93 TULANE	6.6	99	1,490
93 UC SAN FRANCISCO	6.6	98	1,487
93 SOUTH FLORIDA	6.6	55	837
96 M.C. OF WISCONSIN	6.5	115	1,758
96 EAST VIRGINIA	6.5	53	820
98 U OF WASHINGTON	6.4	111	1,731
98 EAST TENNESSEE	6.4	20	314
100 UC LOS ANGELES	6.3	105	1,675
101 HAWAII	6.2	40	641
102 TEXAS HOUSTON	6.0	91	1,515
103 MICHIGAN STATE	5.9	61	1,035
104 IOWA	5.8	96	1,665
105 OKLAHOMA	5.7	97	1,694
106 MINNESOTA	5.6	155	2,762
107 SOUTH DAKOTA	5.5	26	471
107 TEXAS TECH	5.5	41	746
107 CHICAGO MEDICAL	5.5	74	1,349
110 COLORADO	5.3	67	1,260
111 LOUISIANA NEW ORLEANS	5.1	90	1,750
111 MOREHOUSE	5.1	5	98
113 OREGON	5.0	54	1,071
113 ARIZONA	5.0	42	843
115 MEHARRY	4.9	43	870
115 NEW MEXICO	4.9	35	719
117 UC DAVIS	4.5	42	929
117 WRIGHT STATE	4.5	31	694
119 SOUTHERN CALIF	4.2	64	1,525
120 NEVADA	4.0	16	401
121 UC IRVINE	3.8	33	868
122 NORTH DAKOTA	3.7	16	435
123 UNIV OF SOUTH CAROLINA	3.3	11	336
124 PONCE--PUERTO RICO	2.9	8	277
125 UNIFORM SERVICES	0.6	6	1,048

## Percent of Graduates Who Are Underrepresented Minorities<sup>2</sup>

This table measures the success U.S. medical schools had in fulfilling the goal of graduating underrepresented minority physicians. The long term national goal is for the number of graduates to reflect the ethnic makeup of the national population. In the total U.S. population, the proportion of underrepresented minorities was approximately 20% for 1990. For this analysis, the underrepresented ethnic categories include: American Indian/Alaska Native, Black, Mexican American, and Mainland Puerto Rican.<sup>3</sup>

This report ranks schools on the percent of graduates who are underrepresented minorities, aggregated for five years, 1988-1992. The data were derived from the Liaison Committee on Medical Education (LCME) Questionnaire, Part II for 1987-88 through 1991-92. It should be noted that the data for the Part II were reported in April, before the actual graduation date; therefore graduation figures are estimated.

Morehouse ranks first with 82 percent underrepresented minority graduates. Meharry and Howard are second and third with 79.8 percent and 72.4 percent, respectively. After the three historically black medical schools, the University of California at San Francisco and New Mexico rank fourth and fifth with 20.7 and 18.4 percent respectively. The top four schools are the same as in the "1992 Institutional Goals Ranking Report" for underrepresented minority graduates. Meharry, Morehouse, Howard and UC-San Francisco are the only schools which have more than 20% underrepresented minority graduates.

For the five-year period 1987-88 to 1991-92, the total number of graduates who were underrepresented minorities was 6,296 or 8.2% of the 76,667 graduating in those years.

---

<sup>2</sup>We have excluded the medical schools in Puerto Rico from this analysis because the production of underrepresented minority physicians is not one of their goals, and because residents of Puerto Rico are not considered underrepresented minorities.

<sup>3</sup>For the University of Hawaii, Native Hawaiians and natives of other Pacific Islands that are U.S. territories are also considered underrepresented.

**UNDERREPRESENTED MINORITY GRADUATES 1988-92**

SCHOOL	% UNDERREP. MINORITY GRADUATES	# UNDERREP. MINORITY GRADUATES	1988-92 GRADUATES (ESTIMATED)
1 MOREHOUSE	82.0	109	133
2 MEHARRY	79.8	260	326
3 HOWARD	72.4	320	442
4 UC SAN FRANCISCO	20.7	147	710
5 NEW MEXICO	18.4	63	342
6 ILLINOIS	18.0	271	1507
7 STANFORD	16.5	70	424
8 CORNELL	16.2	81	500
9 UC IRVINE	16.1	72	448
10 UC DAVIS	15.6	69	443
10 UC SAN DIEGO	15.6	93	598
12 MICHIGAN STATE	15.1	76	505
13 U OF MICHIGAN	14.7	136	927
14 TEMPLE	14.0	120	855
15 TEXAS GALVESTON	13.8	124	898
16 TX SAN ANTONIO	13.5	128	949
17 TEXAS SOUTHWESTERN	12.3	120	977
18 HARVARD	12.0	97	811
19 UMDNJ-NEW JERSEY	11.7	93	796
20 NORTH CAROLINA	11.4	87	763
21 ARIZONA	11.2	49	436
22 WRIGHT STATE	11.1	49	440
22 SUNY-BUFFALO	11.1	79	709
24 BOSTON	10.7	82	765
25 UC LOS ANGELES	10.6	84	790
26 YALE	10.5	51	485
27 SUNY-BROOKLYN	10.4	113	1086
28 UMDNJ-R. W. JOHNSON	10.1	71	703
29 HAWAII	9.9	27	272
29 EAST CAROLINA	9.9	32	325
31 COLUMBIA	9.7	71	733
31 EINSTEIN	9.7	83	857
33 IOWA	9.6	81	841
34 TEXAS A&M	9.5	22	231
34 JOHNS HOPKINS	9.5	55	579
36 EAST TENNESSEE	9.4	25	265
36 HAHNEMANN	9.4	74	786
38 WAYNE STATE	9.3	118	1264
38 SOUTHERN ILLINOIS	9.3	31	333
40 TEXAS HOUSTON	9.2	84	914

SOURCE: LCME Questionnaire - Part II, 1987-88 to 1991-92. Graduates are estimated.

Graduation Questionnaire data for graduates of the Univ. of Minnesota who began their training at Duluth have not been separately tabulated.

**UNDERREPRESENTED MINORITY GRADUATES 1988-92**

SCHOOL	% UNDERREP. MINORITY GRADUATES	# UNDERREP. MINORITY GRADUATES	1988-92 GRADUATES (ESTIMATED)
41 OKLAHOMA	9.1	63	696
42 U OF PENN.	8.7	64	733
43 MARYLAND	8.6	62	720
44 NEW YORK MED	8.5	85	999
45 BROWN	8.4	34	404
46 CASE WESTERN RESERVE	8.1	57	700
47 ROCHESTER	8.0	40	498
48 SUNY-SYRACUSE	7.9	58	739
49 TUFTS	7.7	57	737
50 PITTSBURGH	7.6	47	621
51 GEORGETOWN	7.4	75	1016
51 DARTMOUTH	7.4	24	325
53 WASHINGTON UNIV.	7.3	44	606
54 ARKANSAS	7.2	43	601
55 FLORIDA	7.0	39	554
55 MISSOURI-KANSAS CITY	7.0	31	445
57 MAYO	6.9	13	188
58 MISSISSIPPI	6.8	33	487
59 M.C. OF PENN.	6.6	38	574
60 WISCONSIN	6.5	46	708
61 TULANE	6.4	47	732
62 TEXAS TECH	6.3	30	476
63 DUKE	6.2	32	513
63 LOUISIANA NEW ORLEANS	6.2	51	821
65 GEORGIA	6.1	53	868
65 BAYLOR	6.1	48	791
67 NORTH DAKOTA	6.0	15	252
68 CREIGHTON	5.9	33	558
69 MT SINAI	5.8	37	642
70 EAST VIRGINIA	5.7	25	436
71 SOUTH ALABAMA	5.6	16	284
71 M.C. OHIO TOLEDO	5.6	35	625
73 CONNECTICUT	5.5	22	404
74 U OF VIRGINIA	5.4	36	672
75 U OF WASHINGTON	5.3	44	824
75 NEBRASKA	5.3	32	601
77 MERCER	5.2	7	136
78 MIAMI	5.1	41	797
78 COLORADO	5.1	32	624
78 LOUISIANA SHREVEPORT	5.1	23	454

**UNDERREPRESENTED MINORITY GRADUATES 1988-92**

SCHOOL	% UNDERREP. MINORITY GRADUATES	# UNDERREP. MINORITY GRADUATES	1988-1992 GRADUATES (ESTIMATED)
78 LOMA LINDA	5.1	36	712
82 MASSACHUSETTS	5.0	24	477
82 SOUTHERN CALIF	5.0	38	765
84 CINCINNATI	4.9	40	810
85 PENN STATE	4.8	20	414
85 EMORY	4.8	26	539
85 M.C. OF VIRGINIA	4.8	38	797
88 UNIV OF SOUTH CAROLINA	4.6	13	286
89 BOWMAN GRAY	4.5	23	507
89 RUSH MED COL	4.5	26	573
89 SUNY-STONY BROOK	4.5	23	513
92 ALABAMA	4.4	33	755
93 JEFFERSON	4.1	44	1067
93 U OF CHICAGO	4.1	22	540
95 UTAH	4.0	20	495
95 OHIO STATE	4.0	43	1081
95 UNIFORM SERVICES	4.0	31	785
98 TENNESSEE	3.5	26	744
98 LOYOLA STRITCH	3.5	21	606
100 CHICAGO MEDICAL	3.3	25	766
101 LOUISVILLE	3.2	19	594
102 NEVADA	3.1	7	228
103 KENTUCKY	3.0	13	428
103 MED U SOUTH CAROLINA	3.0	21	696
103 M.C. OF WISCONSIN	3.0	26	879
106 MISSOURI-COLUMBIA	2.9	15	511
106 GEORGE WASHINGTN	2.9	22	756
108 NEW YORK UNIV.	2.8	21	749
109 KANSAS	2.6	22	858
110 ALBANY	2.5	16	640
111 SOUTH FLORIDA	2.2	10	452
111 NORTHWESTERN	2.2	18	828
111 MINNESOTA	2.2	26	1198
114 INDIANA	1.9	24	1238
115 SOUTH DAKOTA	1.7	4	236
116 OREGON	1.6	7	442
117 MARSHALL UNIV.	1.5	3	200
118 NORTHEASTERN OHIO	1.3	6	464
118 VANDERBILT	1.3	6	467
120 WEST VIRGINIA	0.8	3	394
121 ST LOUIS UNIV.	0.6	4	699
122 VERMONT	0.5	2	449

## Total Federal Grants and Contracts for Research

One measure of a medical school's achievement is its success in acquiring research funds. The amount of federal research grants and contracts has been used frequently to measure this success. As used in this report total federal research grants and contracts includes all externally sponsored research projects which are carried out by medical school faculty, whether or not the grantee institution is the medical school. Thus, the funds are recorded on medical school accounts. Research grants and contracts awarded to affiliated institutions are shown in the "not recorded " column. Reimbursements for the indirect costs of federal research are also separately reported.

Total federal research grants and contracts for U.S. medical schools in 1991-92 was \$4,472 million. This measure includes both total federal research grants and contracts (recorded and not recorded) and associated indirect cost recoveries. Harvard University ranks highest in the amount of federal research support, with \$356,700,655. Harvard's awards were more than ten times the mean of \$ 35,495,469. The University of California-San Francisco ranks second with \$156,735,257. Johns Hopkins ranks third with \$138,775,993, and UCLA fourth with \$126,711,146. These four schools maintained the same relative ranking in the 1990-91 data.

The private school mean of \$49,023,890 is substantially higher than the public school mean of \$25,989,010. The means for the geographic regions range from \$21,800,739 in the south to \$54,815,232 in the west. The mean for the northeastern region was \$50,838,893, and it was \$26,548,567 for the midwestern region.



## FEDERAL RESEARCH GRANTS & CONTRACTS 1991-92\*

SCHOOL	TOTAL FEDERAL RESEARCH GRANTS & CONTRACTS	FEDERAL GRANTS & CONTRACTS - RESEARCH RECORDED	FEDERAL GRANTS & CONTRACTS - RESEARCH NOT RECORDED	FEDERAL INDIRECT COST RECOV. RESEARCH
1 HARVARD	356,700,555	39,784,627	204,233,315	112,682,713
2 UC SAN FRANCISCO	156,735,257	114,197,605	9,695,097	32,842,555
3 JOHNS HOPKINS	138,775,993	90,400,491	0	48,375,502
4 UC LOS ANGELES	126,711,146	63,865,402	34,023,565	28,822,179
5 COLUMBIA	125,878,000	58,460,000	25,420,000	41,998,000
6 WASHINGTON UNIV.	115,737,494	70,822,389	9,210,061	35,705,044
7 YALE	113,898,461	74,829,227	0	39,069,234
8 U OF PENN.	111,396,000	59,421,000	24,000,000	27,975,000
9 U OF WASHINGTON	111,000,369	79,157,371	0	31,842,998
10 STANFORD	99,969,628	70,001,161	0	29,968,467
11 CORNELL	99,161,000	35,250,000	35,039,000	28,872,000
12 UC SAN DIEGO	93,953,296	69,623,654	0	24,329,642
13 DUKE	92,831,994	65,368,413	0	27,463,581
14 PITTSBURGH	91,041,876	54,666,063	19,030,015	17,345,798
15 U OF MICHIGAN	88,749,437	60,543,670	0	28,205,767
16 BAYLOR	85,692,715	65,888,013	0	19,804,702
17 SOUTHERN CALIF	72,977,065	34,767,457	22,603,000	15,606,608
18 MINNESOTA	72,071,180	57,797,710	0	14,273,470
19 EINSTEIN	71,564,000	44,519,000	0	27,045,000
20 NORTH CAROLINA	69,470,479	50,679,050	0	18,800,429
21 U OF CHICAGO	66,806,000	46,025,000	0	20,781,000
22 NEW YORK UNIV.	66,783,715	44,487,185	0	22,296,530
23 ROCHESTER	61,845,066	43,110,383	0	18,734,683
24 EMORY	61,433,402	40,444,440	6,765,150	14,223,812
25 TEXAS SOUTHWESTERN	60,995,914	43,903,281	0	17,092,633
26 ALABAMA	59,484,536	44,724,193	0	14,760,343
27 CASE WESTERN RESERVE	55,910,938	37,731,792	0	18,179,146
28 IOWA	54,721,655	41,015,545	0	13,707,110
29 MT SINAI	53,925,385	37,072,073	0	16,853,312
30 VANDERBILT	52,873,832	36,261,854	0	16,611,978
31 MIAMI	52,132,347	36,131,275	0	16,001,072
32 COLORADO	51,317,487	37,748,770	0	13,568,717
33 WISCONSIN	50,866,771	36,734,834	0	14,131,937
34 BOSTON	43,326,746	28,934,115	0	14,392,631
35 UTAH	43,157,498	31,850,198	0	11,307,300
36 MARYLAND	42,172,796	34,360,005	0	7,812,791
37 M.C. OF VIRGINIA	40,448,833	29,656,305	0	10,792,528
38 MAYO	39,438,000	30,210,000	0	9,228,000
39 CINCINNATI	38,201,021	26,296,249	0	11,904,772
40 GEORGETOWN	37,656,886	26,430,695	0	11,226,191

\*SOURCE: LCME Questionnaire -- Part 1A, 1991-92

## FEDERAL RESEARCH GRANTS & CONTRACTS 1991-92\*

SCHOOL	TOTAL FEDERAL RESEARCH GRANTS & CONTRACTS	FEDERAL GRANTS & CONTRACTS - RESEARCH RECORDED	FEDERAL GRANTS & CONTRACTS & RESEARCH NOT RECORDED	FEDERAL INDIRECT COST RECOV. RESEARCH
41 U OF VIRGINIA	36,376,244	26,307,626	0	10,068,618
42 BOWMAN GRAY	36,003,595	27,347,656	0	8,655,939
43 MASSACHUSETTS	35,843,839	23,682,632	0	12,161,207
44 BROWN	34,645,539	6,756,563	17,669,338	10,219,638
45 INDIANA	33,296,854	24,264,776	0	9,032,078
46 ARIZONA	33,135,000	23,695,000	0	9,440,000
47 TX SAN ANTONIO	32,664,322	25,130,541	0	7,533,781
48 WAYNE STATE	30,783,551	17,530,204	4,382,092	8,871,255
49 JEFFERSON	30,296,320	20,945,795	0	9,350,525
50 DARTMOUTH	27,719,857	19,800,760	0	7,919,097
51 VERMONT	26,933,503	18,834,717	0	8,098,786
52 NORTHWESTERN	26,469,743	19,474,775	0	6,994,968
53 SUNY-STONY BROOK	26,317,663	17,912,880	0	8,404,783
54 OREGON	23,728,937	17,513,899	0	6,215,038
55 M.C. OF WISCONSIN	23,629,164	17,031,717	0	6,597,447
56 OHIO STATE	23,348,144	15,551,756	2,231,701	5,564,687
57 UC DAVIS	23,176,719	18,141,639	0	5,035,080
58 TUFTS	22,195,146	14,826,372	0	7,368,774
59 TEXAS GALVESTON	22,103,144	16,314,224	0	5,788,920
60 ILLINOIS	22,015,352	15,414,685	0	6,600,667
61 PENN STATE	21,466,173	14,929,795	0	6,536,378
62 CONNECTICUT	21,123,138	14,100,960	0	7,022,178
63 TEXAS HOUSTON	20,796,951	17,119,939	0	3,677,012
64 UMDNJ-R. W. JOHNSON	19,041,577	12,473,827	0	6,567,750
65 SUNY-BUFFALO	18,565,940	10,743,765	3,952,884	3,869,291
66 UC IRVINE	18,514,703	13,326,404	0	5,188,299
67 MED U SOUTH CAROLINA	18,457,338	12,237,798	2,446,201	3,773,339
68 UMDNJ-NEW JERSEY	18,379,683	12,784,339	0	5,595,344
69 M.C. OF PENN.	18,127,139	11,912,438	0	6,214,701
70 FLORIDA	17,360,820	13,479,902	0	3,880,918
71 ST LOUIS UNIV.	16,055,387	11,814,800	0	4,240,587
72 SUNY-BROOKLYN	15,894,348	12,359,690	0	3,534,658
73 TENNESSEE	14,580,621	10,900,453	170,043	3,510,125
74 KENTUCKY	14,565,899	9,517,850	1,255,180	3,792,869
75 KANSAS	14,107,080	10,217,172	0	3,889,908
76 TEMPLE	13,993,973	9,341,902	0	4,652,071
77 LOUISIANA NEW ORLEANS	12,828,825	9,352,761	0	3,476,064
78 TULANE	12,692,111	9,544,383	0	3,147,728
79 GEORGE WASHINGTN	12,491,859	8,732,834	0	3,759,025
80 ARKANSAS	12,338,619	6,642,080	2,887,396	2,809,143
81 NEW YORK MED	12,064,375	7,693,763	0	4,370,612

## FEDERAL RESEARCH GRANTS & CONTRACTS 1991-92\*

SCHOOL	TOTAL FEDERAL RESEARCH GRANTS & CONTRACTS	FEDERAL GRANTS & CONTRACTS - RESEARCH RECORDED	FEDERAL GRANTS & CONTRACTS & RESEARCH NOT RECORDED	FEDERAL INDIRECT COST RECOV. RESEARCH
82 NEW MEXICO	11,944,867	8,723,765	0	3,221,102
83 RUSH MED COL	10,560,476	7,653,092	0	2,907,384
84 HAHNEMANN	9,854,000	6,983,000	0	2,871,000
85 SUNY-SYRACUSE	9,661,553	6,828,425	0	2,833,128
86 UNIFORM SERVICES	9,486,759	9,486,759	0	0
87 NEBRASKA	9,103,471	6,630,389	0	2,473,082
88 MISSOURI-COLUMBIA	9,057,864	6,930,295	151,657	1,975,912
89 SOUTH ALABAMA	7,351,671	5,441,313	0	1,910,358
90 OKLAHOMA	7,309,584	5,575,972	0	1,733,612
91 MEHARRY	7,188,837	4,880,549	674,511	1,633,777
92 M.C. OHIO TOLEDO	7,118,545	4,694,673	0	2,423,872
93 EAST VIRGINIA	7,057,671	6,184,884	0	872,787
94 MICHIGAN STATE	6,807,942	4,644,077	0	2,163,865
95 GEORGIA	6,621,183	4,791,491	0	1,829,692
96 SOUTH FLORIDA	6,366,002	4,628,308	0	1,737,694
97 ALBANY	6,360,067	3,889,440	0	2,470,627
98 MISSISSIPPI	6,300,584	4,777,316	0	1,523,268
99 WEST VIRGINIA	5,914,154	4,713,455	0	1,200,699
100 LOYOLA STRITCH	5,863,365	4,066,440	0	1,796,925
101 LOUISVILLE	5,796,966	3,698,915	820,424	1,277,627
102 MOREHOUSE	5,688,314	4,642,924	0	1,045,390
103 HOWARD	5,611,122	3,870,986	0	1,740,136
104 LOUISIANA SHREVEPORT	5,474,894	4,076,527	0	1,398,367
105 NORTH DAKOTA	5,292,611	4,690,257	0	602,354
106 NEVADA	4,996,896	3,152,826	674,583	1,169,487
107 CHICAGO MEDICAL	4,937,699	2,625,389	770,954	1,541,356
108 WRIGHT STATE	4,684,406	3,508,136	0	1,176,270
109 CREIGHTON	4,439,455	3,656,868	0	782,587
110 EAST CAROLINA	3,777,713	3,298,406	0	479,307
111 TEXAS TECH	3,405,987	2,481,878	0	924,109
112 SOUTHERN ILLINOIS	3,366,600	2,610,000	0	756,600
113 HAWAII	2,928,705	2,170,862	0	757,843
114 LOMA LINDA	2,796,138	1,852,662	0	943,476
115 TEXAS A&M	2,728,985	2,209,572	0	519,413
116 MISSOURI-KANSAS CITY	2,702,104	105,817	2,585,863	10,424
117 UNIV OF SOUTH CAROLIN.	2,565,532	1,247,160	652,000	666,372
118 PONCE-PUERTO RICO	2,095,282	1,573,203	0	522,079
119 MINN-DULUTH	1,272,014	987,728	0	284,286
120 SOUTH DAKOTA	1,207,765	591,617	0	616,148
121 MARSHALL UNIV.	1,137,123	412,577	548,807	175,739
122 NORTHEASTERN OHIO	931,071	701,053	0	230,018
123 EAST TENNESSEE	872,352	713,778	0	158,574
124 U CENTRAL DEL CARIBE	697,599	610,405	0	87,194
125 PUERTO RICO	654,360	519,881	0	134,479
126 MERCER	484,696	418,390	0	66,306