The Top American Research Universities

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The Center for Measuring University Performance

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Moving Up:

The Marketplace for Federal Research in America*

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Everyone wants to get better, to move up within the hierarchy of American research universities. While the pursuit of the mythical number one is a magical quest, good research universities consistently benchmark their relative performance on a variety of measures to know whether they are getting better faster than their competition. Frequently, universities avoid a comparative assessment, reporting instead any absolute increases in their research and other performance indicators to their various constituencies of alumni, faculty, students, and public officials. Comparative measures are often less satisfying indicators of improvement than absolute increases because institutions may get better but not fast enough to catch a competition that also improves.

Benchmarking allows institutions to see not only how they have improved on their past performance, but also how their performance compares to the competition. We emphasize this because normal ranking methodologies tend to highlight small changes in the relative position of adjacent institutions on an ordered list. These changes can be the result of real improvement or a decline in performance of an institution slightly higher in the list. When the market for university research expands by more than an individual institution's improvement, however, the university can lose market share in spite of doing better.

The Marketplace: Structural Inequality

The indicator most consistently used to measure institutional performance among research universities is the annual expenditures from federal funding sources. The amount of federally funded grant money has increased consistently over the years with the result that institutions can see an increase in their absolute level of federally sponsored research, but this absolute increase does not mean they have increased more than their competitors. An increase in a particular year may put them ahead, behind, or just even with their closest competitors. Figure 1 shows that over the past twenty years, academic science and engineering research expenditures from all sources have increased by \$38.6 billion or 237%. Federal research expenditures show a similar rate of growth, increasing by nearly \$23 billion during this period.

Even after adjusting for inflation, Figure 2 illustrates that federal research expenditures in constant 2009 dollars grew by \$13.5 billion or 70%. If a university has not increased their federal research expenditures by more than this, they are not moving up in the competition. As universities continue to invest in research competition, they need to have a clear understanding of the changes in the amount of federal dollars available for research, and the very difficult task of moving up faster than the competition is moving up. We discuss here this structure of the federal research-funding

Fig. 1

Total and Federal Research: 1991-2009

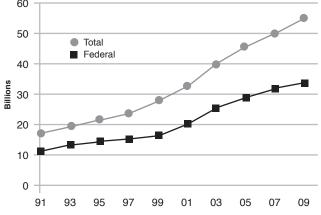
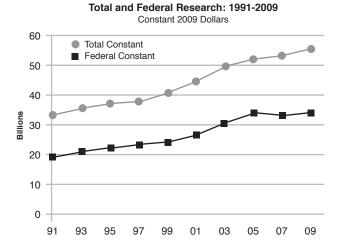


Fig. 2

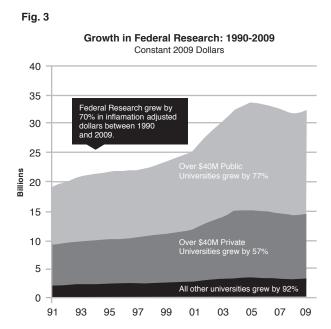


^{*} The Top American Research Universities (TARU), published annually since 2000. Of particular interest for this discussion, see the following essays in previous editions: "Introduction" and "The University," TARU 2001 (2001) 3-35; "Change over Time," TARU 2004 (2004), 21-25; "Deconstructing University Rankings: Medicine and Engineering, and Single Campus Research Competitiveness," TARU 2005, (2005 Corrected), 3-25; "Introduction," TARU 2009, (2010) 2-5. The annual reports and the data for most indicators for the years since at least 1999 are available at [http://mup.asu.edu].

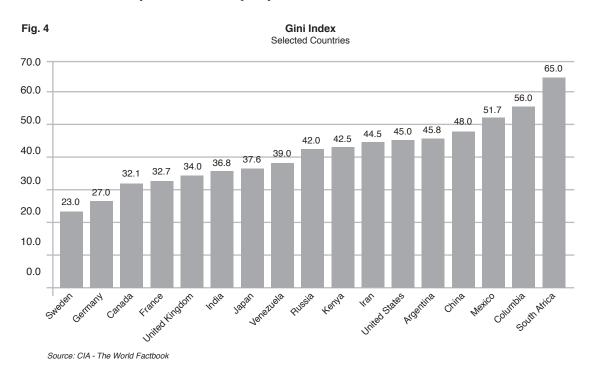
marketplace. Institutional improvement is a difficult and challenging task, requires significant investment over time, and a consistent strategy for measuring performance within the competitive marketplace.

Periodically we have reviewed the US federal research marketplace to understand its structure and to assess the mobility of participants within it. The top American research universities, which we now define as those with at least \$40 million in annual federal research expenditures, tend to sustain high levels of performance and maintain their relative position within the marketplace over time. Those much lower on the scale change their relative position much more frequently and significantly. At the higher levels of research performance, the dollar amounts involved are large and improvement sufficient to change rank requires a major increase in research performance. At lower levels, the difference separating nearby institutions is much smaller, and rank change at these lower levels occurs more frequently. A relatively few top performers among research institutions control a large percentage of the market and this concentration remains stable over time. Figure 3 shows the dominance of the top research universities over the past 20 years. Even though as a group the large number of institutions with less than \$40 million grew at a faster pace in percentage terms, these institutions have a small amount of federal research and only control 8% of market.

The distribution of federal research expenditures is clearly unequal, with a relatively small number of top performing institutions controlling a high proportion of funding. For a clearer picture of the shape of this distribution, we adopted a well-known tool from the analysis of income inequality,



the <u>Gini index</u>, to an analysis of the federal research expenditures of the institutions included in the *Top American Research Universities*. The Gini index provides a measure of the relative inequality (or equality) of a distribution of resources among a group of individual units (or people/households in the case of income). An index of 100 means complete inequality, where one member of the group has all the resources and everyone else has none. An index of 0 represents complete equality in the distribution where every member of the group has the same share of the resource measured.



Indexes of this type are sometimes difficult to interpret intuitively, but the Gini index has some real world applications that give familiar reference points. The Gini index frequently appears as an indicator of the inequality of income distribution within national populations, and policy analysis often compares the Gini indexes of different countries. World data on income distributions provide a range of Gini indexes from 23, for Sweden with the most equal distribution of income, to 65 for South Africa, among those countries with the most unequal distributions (Figure 4). By itself, of course, a Gini index does not tell the whole story of any distribution of income, as the data may not capture the total economic benefit, including but not limited to cash payments or government assistance, received by any nation's individuals. With these elements of unrecorded income absent, the Gini index may show a more unequal distribution than is actually the case.

For our purposes, however the data for federal research expenditures are relatively straightforward because universities compete for federal research awards in the same way using the same process. Differences in the success of institutions engaged in this competition have many components well worth examination (and we have looked at some in the past), but the actual inequality in the results of this competition is rather clearly indicated by the analysis of federal research expenditures. As those who follow these reports know, we analyze expenditures rather than awards to focus on the current performance of federally sponsored research rather than the future performance represented by awards.

The Gini index of the federal research expenditures of the approximately 700 institutions that report any federal research expenditures demonstrates the dramatic inequality in this distribution with an index of 82. This distribution is a little more unequal than the most unequal country income distribution in the world. However, this is not particularly useful since a large number of the institutions at the bottom of the research distribution are not significant participants in the competition and have only a token amount of federal research (Table 5).†

By including only the top 200 institutions in 2009 that together include nearly 95% of the federal research expenditures, we get a Gini index of 49 that reflects a more equal distribution. If we narrow the focus somewhat again by concentrating on a top group of 163 institutions with over \$40 million in federal research expenditures in 2009, the inequality among them declines somewhat to a Gini index of 43.

Some of these data may well be susceptible to clearer interpretation if we make some further adjustments to the institutional data set. For example, we know that the presence of a medical school often helps a university achieve a higher rank on federal research expenditures, a reflection of the significant funding available for biologically based and medically related federal research investments over many years. By removing the primarily medical institutions from our data set, and by adjusting the 2009 federal research expenditures reported for universities to exclude medical school research as reported by the Association of American Medical Colleges (AAMC), we can assess the relative distribution of expenditures among the top universities without the possible distortion introduced by medical schools. Within this revised data set, the Gini index of the distribution of federal research expenditures among the top performing universities on non-medical school related research declines only slightly to 42. A final illustration (also shown in Table 5) calculates the Gini index for the medical institutions and the medical school research of universities with medical schools (excluded from the previous analysis). Even among these top performing medically focused institutions, the inequality identified is significant at 45. When we run the analysis to include all medical schools with federal research within the 700 institutions that receive federal funding, the inequality is even greater as evidenced by a Gini index of 56, primarily because many medical schools in this larger group do not specialize in research.

For close observers of the competition for research funding in the United States, this inequality in funding among the participants comes as no surprise. The Gini index analysis provides a statistical measure that identifies a significant

Table 5 Gini Index: Measuring Inequality
Distribution of Federal Research Expenditures

	2009
All Institutions	82
Top 200 in 2009 Federal Research	49
Over \$40M in 2009 Federal Research	43
Over \$40M in 2009 Federal Excluding Standalones and Medical Research	42
Over \$40M Standalone Medical Institutions and Medical Research	45
All Standalone Medical Institutions and Medical Research	56

[†] We include The Johns Hopkins University, a major outlier in the federal research expenditure data, in these analyses because its inclusion has a minor impact on the Gini analysis and does not distort the other discussion of relative institutional performance.

structural characteristic of this marketplace that we have discussed before. Individual institutions competing for federal research dollars need to understand the characteristics of this marketplace to guide their planning and investment.

Although the structural characteristics are significant, the mobility possible within this marketplace is an important consideration for institutions seeking research improvement. To evaluate the competitive challenge of research investment, it is helpful to know the experience of individual institutions as they attempt to improve their position within this competition. Institutions and their constituents want to know whether it is possible to improve a university's performance by increasing its market share of federally funded research, and, if so, by how much and over what time period. Has it been possible, by how much and over what time, to improve an institution's relative performance and increase their market share of federally funded research?

Although the amount of federal funds available has increased each year, the annual federal research competition is a zero sum game. Each year the number of competitors that choose to participate can increase or decrease, but the federal agency budgets substantially fix the amount of federal research available for each annual round of competition. The federal research expenditures of each institution is the cumulative result of several rounds of competition, since the awards in each competition may be for one, two, or as many as five years, and a considerable portion of funding represents renewals of previous awards. When we look at research improvement through federal research expenditures, we automatically include a smoothing function that evens out the variability in awards for each round of the competition. In some years, an individual university will receive a large award, but it may be for a five-year project while another university will receive several smaller awards for two-year projects. By using expenditures we account for this variability in awards, we measure the actual research accomplish by the proxy of the amount spent that year, and we create a better representation of the continuing success of institutions that engage the annual

federal zero-sum research competition.

This competition is constrained by the structural characteristics of the marketplace. Within the top 150 to 200 performers, mostly the same institutions compete every year. This competition is an essential element of their institutional design and mission and they must participate to remain major research universities within the United States. Success in this competition is a function of investment and careful management of institutional subsidies over time. Research is one of the university's loss leaders. Almost no research reflected in this competition pays its full costs. Instead, the federal research expenditures reflect only a partial reimbursement of the institution's investment in that research. Universities need to understand the opportunities and constraints of the research marketplace as they budget funds to subsidize competitive research activities.

Although our previous review of the data indicates considerable stability over time in the relative success of institutions in acquiring federal research funding, we have applied the Gini index analysis to our data as another method for identifying changes in the relative distribution of funding over time. For example, although an institution may improve its performance relative to those above it in the distribution, the changes, if limited to nearby competitors, will produce different rankings for the individual universities but leave the generally unequal distribution of federal research unchanged. Because improvement in this zero sum game generally comes from one institution increasing while another decreases its federal expenditures, this trading places does not necessarily change the structural inequality of the distribution.

To look at the persistence of inequality, we calculated Gini indexes at different times from our data sets on federal research expenditures. The tables included below offer mixed results. For all institutions between 1990 and 2009, the index remains virtually constant at a high inequality value of 80 and 82, respectively. (Table 6) Calculating the index separately for private institutions identified a slight

Table 6 Gini Index: Federal Research Expenditures 1990-2009

	1990	1999	2009
All Institutions	80	82	82
All Private Institutions	85	80	89
All Public Institutions	76	7 8	43
Over \$40M in 2009 Federal Research	50	42	42
Over \$40M Private Institutions	48	45	45
Over \$40M Public Institutions	48	5 6	5 6
Standalone Medical Institutions	52	50	50
Universities with a Medical School	60	58	56

increase in inequality while public institutions remained at about the same level over the years. However, if we focus on the top performing institutions with over \$40 million in federal expenditures, a consistent reduction in inequality takes place, with a Gini index of 50 in 1990 declining to a somewhat less unequal distribution of 43 in 2009. In this high performing group, there is little difference in trend by control (public vs. private) of institution. If we look at the two medically related groups of research competitors discussed above, we see some modest change in inequality over time. Standalone medical institutions that are not part of affiliated universities declined slightly in their Gini index since 1990 while university-based medical schools saw a somewhat larger decrease over time. The latter is partly due to fewer universities with medical schools competing for federal dollars in 2009 (119) than competed in 1990 and 1999 (150).

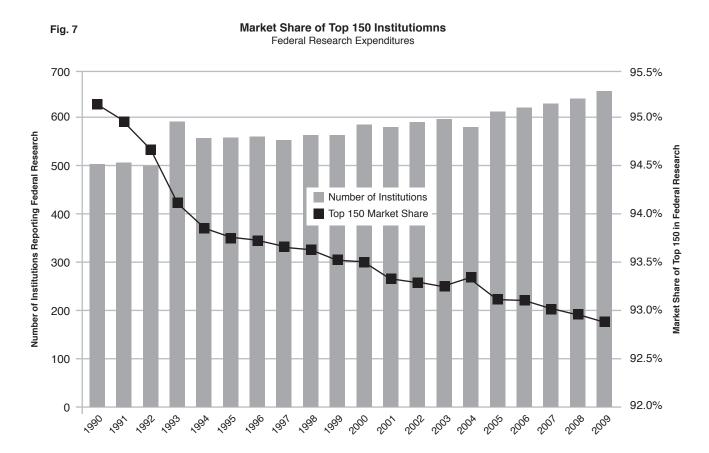
Although the differences in inequality identified here may be of some interest, the analysis generally shows that the university research marketplace is relatively stable over time, with only minor adjustments to the inequality that is one of its primary structural characteristics. As our previous studies have shown, there is considerable movement in the rank order of universities on their federal research expenditures over time, but the structural inequality highlighted by the Gini index analysis illustrates that much of this movement takes place among institutions within the same general band of performance. The changes in rank do

not significantly affect the structural characteristics of the marketplace.

The Marketplace: Stability

To understand the stability of this marketplace we explored another method for illustrating change. We took the data from the group of universities and research centers that had any federal research expenditures between 1990 and 2009. We then removed standalone medical schools and medical centers, specialized institutions, and research centers to leave us with a set of recognizable research universities. We converted the federal research expenditures for each year into constant 2009 dollars. We then ranked the institutions each year on their federal research expenditures. For each year, we sorted the institutions by federal research expenditures (in constant dollars). We focused on the top 150 institutions in each year, dividing them into six groups of 25 in descending order. We then calculated for each year the percent of the total federal research expenditures represented by the top 150 (out of all the research reported by the over 600 reporting) and then calculated the share of the top 150 total controlled by each of the groups of 25. This procedure allows us to see the stability of the distribution of federal research expenditures over time.

As expected, in each year between 1990 and 2009, the top 150 universities, from which we have constructed the six groups of 25, controlled from 95.1% to 92.9% of the



total federal research expenditures. The decline in percentage controlled represents the significant investment by many additional universities in research performance over these years and an increase in the number of universities participating in the federal research competition from 502 to 658. Figure 7 shows the growth in players over time and the market share loss of the top group, but even when numbers of institutions are stable and the research performance of institutions improves there is still a decline in market share. The expansion of the competitive field nonetheless left the top 150 with their overwhelming dominance of the competition.

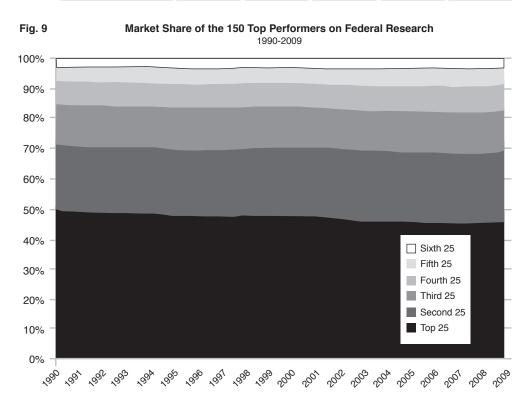
Individual universities often focus on year-to-year changes in rank or only on absolute improvements in research achievements, but the actual difference in performance between universities of similar rank can be rather small. We focus here on groups of universities that share similar levels of performance. We took the top six groups of 25

universities and calculated their market shares for each year. Table 8 provides the results of this distribution. Although there are some trends in these data, they reflect relatively small changes in market share. The largest impact is the slightly reduced share captured by the top 25 institutions over these years, declining from a 49.4% to a 45.4% share. The lost share appears to have shifted downward to the second 25, a group that gains two points from 21.8% to 23.9%, and some smaller shifts to lower groups. This may reflect a somewhat broader distribution of federal grants among universities, resulting perhaps from policy initiatives at federal agencies as well as from increased investment in research competition by the universities themselves.

Overall, however, this distribution highlights the stable structural characteristic of this marketplace with the dominance of the top institutions clearly and continuously visible, as is clear in Figure 9. Throughout the 20-year period

Table 8 Market Share of Top 150 by Group of 25

Group within Top 150 Universities	1990	1994	1999	2004	2009
Top 25	49.4%	4882%	4782%	4682%	45822%
Second 25	21.8%	2149%	2249%	2349%	2349%
Third 25	13.3%	1345%	1346%	1342%	1343%
Fourth 25	7.9%	8.412%	7.492%	8.452%	8.462%
Fifth 25	4.8%	5.40%	4.455%	5.455%	5.455%
Sixth 25	2.8%	3506%	3516%	356%	3546%



summarized here, the top 25 institutions control at least 45% of all the federal research expenditures of the top 150 institutions. The next group controls about half as much of the market in the low 20% range, and the third group contains around 13%. Clearly, each group of 25 universities competes for a smaller and smaller percentage of the total amount, and this means that increasingly smaller amounts of change in an individual university's research expenditures will produce equivalent changes in rank order within the groups.

Another way to look at the structure of this distribution is to measure how much it would take to move the middle institution in each group to the midpoint of the group above it. The purpose of this kind of approach is to identify the challenge faced by universities that commit themselves to the investment required to make a major change in their competitive position. For each year, we sorted the 150 top institutions into descending order by constant federal research expenditures, and then divided them into the six groups of 25 as in the previous exercises. For each year, we identified the median constant dollar amount of federal research expenditures for each group and then calculated the percent increase that would be required to move that median institution to the median of the next highest group.

This would represent an increase of 25 positions in the rank order between the median of one group to the median of the next highest group. As Table 10 indicates, this goal of moving from the middle of one group to the middle of another group offers a major challenge.

These data show some considerable variability year to year, but the percent increases required to achieve a major repositioning within this competition are nonetheless large. At the top level, to move from the second tier median to the first tier median takes from 74% in 1999 to 71% in 2009. At most tiers, the percentage growth required today is less than that in 1999 but adjusting for inflation the actual dollar increase needed to move to another tier is much higher in 2009. With the hundreds of millions of dollars involved in these categories, the increase from group two to group one in 2009 would be about \$180 million. A move from the median of group three to the median of group two would take \$118 million additional research expenditures, while moving from the other groups to the one above would take about \$20 to \$46 million more expenditure in 2009. These two reference points indicate the strong structure of this marketplace over the past decade and highlight the major effort needed to move an institution a significant distance within this competitive context.

Table 10
Increase in Federal Research Expenditures
to Move into Next Higher Group

In 2009, to move from:	Requires this approximate increase in federal research (in constant 2009 dollars):	Or an estimated increase of:
Group 2 to Group 1	\$179.5 M	71%
Group 3 to Group 2	\$117.7 M	88%
Group 4 to Group 3	\$45.6 M	51%
Group 5 to Group 4	\$31.8 M	56%
Group 6 to Group 5	\$19.8 M	53%
In 1999, to move from:		
Group 2 to Group 1	\$134.1 M	74%
Group 3 to Group 2	\$71.8 M	66%
Group 4 to Group 3	\$47.3 M	76%
Group 5 to Group 4	\$24.9 M	67%
Group 6 to Group 5	\$13.8 M	59%
In 1990, to move from:		
Group 2 to Group 1	\$132.7 M	100%
Group 3 to Group 2	\$45.6 M	53%
Group 4 to Group 3	\$34.3 M	65%
Group 5 to Group 4	\$23.7 M	82%
Group 6 to Group 5	\$11.9 M	70%

The Marketplace: Changing Places

However, even within this highly structured market, some important changes are visible in Table 10 over a longer period. If we extend the analysis to reach back to 1990, we can see a significant trend towards a broadening of the competition among the top 150 institutions. The percent increase needed to move from the median of group two to the median of group one declines from a high of 100% in 1990 to 71% in 2009. However, the percent increase needed to move from the median of group three to the median of group two increases from 53% in 1990 to 88% in 2009. Thus, the primary broadening of competition takes place among the top 50 institutions; mostly it would appear from a narrowing of the gap between the top 25 and the second 25 institutions. This likely reflects the continued investment by institutions in the second tier to acquire the faculty and infrastructure required for successful competition for federal funds over the past decades. Much academic discussion has accompanied this increased emphasis on research performance, focusing on institutional investment patterns, faculty priorities, and institutional missions. The research game in America's institutions appears to have shifted from a predominantly top 25 competition to top 50 or top 75 competitions.

Further evidence of the behavior of this marketplace comes from an analysis of the movement of individual institutions within the rank ordering of universities by their federal research expenditures. There are various ways to observe the changes in rank order of institutions. We could look at the order in 1990 and see how persistent this rank order remains over the years until 2009. Alternatively, we could take the 2009 rank order and see how many of these institutions' 2009 rank reflects maintenance of their competitive position since 1990 or changes up or down over those years. Since the competition is a current competition, what counts most is where each institution is today, and its actions can only affect what happens in the future. In that context, we looked at the current rank results and then identified rank movement since 1990 that produced the 2009 ranking. This, as our previous analysis suggests, should show relatively little movement in the top 25 category and considerably more movement as we inspect the 150 institutions included in this review. [Table 11].

The mobility of universities over the past two decades varies significantly by group. In the top group of 25 universities, between 1990 and 2009 six universities moved into this elite company from the second 25. This, of course, means that six universities fell out of the top 25 along the way between 1990 and 2008. There is also some movement in relative position within the top 25 among those institutions remaining in that group but none moving by more than nine rank positions up or down within the 20 years reviewed here. This result clearly indicates that even over a long period, significant movement into (and out of) the

top rank of American research universities is difficult to achieve. Indeed, only one institution moved on average more than one rank position a year to reach the top 25, and all but that institution moved into the top group from a relatively high position within the second group.

In the 2009 rankings, the second group of institutions ranked between 26 and 50 had seven universities move into this group from the groups below and six fall out of the group between 1990 and 2009. Of those moving up into the second group, all but one had medical schools. Of those falling out of the first group into this second group, only two had a medical school. Over the past twenty years, most significant university improvement in rank involves moving one group up or down. In these shifts in rank order, we can see examples of institutions that maintained their research volume in constant dollars since 1990 but none-theless fell significantly in rank order because other institutions increased their performance. As we have observed above, it is never enough to stay even in a marketplace where all competitors seek to increase their share.

The experience reflected in these data clearly indicate that the intense competition for federal research awards and the subsequent reflection of cumulative results of that competition in the annual federal research expenditure produces a constantly changing hierarchy of institutions. Most change, as is visible in Table 11, is relatively small, year-to-year, reflecting upward or downward movement by a position or two in consecutive years. Over longer periods, however, a small number of institutions moved at least 12 places, a distance that would move them from the bottom of one 25-institution group to the median or from the median to the top. At the top level of performance, this amount of improvement represents a major achievement and only three universities moved more than 12 places although two others were close at 12 position improvements. In the second group seven institutions improved by more than 12 places, and in the third group eight achieved this level of improvement. At the same time, institutions in each group declined in performance as well, with four in the second group and five in the third group declining by more than 12 places.

The data for the other groups follow similar patterns with some institutions entering the group from the one above and others from the ones below, but the size of the rank changes are significantly larger, indicating the smaller amount of dollars needed to move up or down at lower levels of research performance.

Although the structure of the federal research marketplace is stable over time, in terms of the aggregate research success of the universities in each of the six groups of 25, the competitive performance of individual institutions varies considerably from year to year throughout the 1990-2009 period. Some institutions rise in the competition while

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others fall by widely varying margins. If we focus on the 75 individual institutions in the top three groups in 2009, we see that over the past almost two decades, most of these institutions have moved up and down in the list since 1990. Only four institutions have the same rank in 2009 that they had in 1990. Some 43 institutions ended up in 2009 with at least one position better than they had in 1990 while 28 institutions had a rank in 2009 at least one position worse than in 1990. If we focus on the most recent period from 1999 to 2009, the amount of movement since 1999 reflected in the 2009 ranking on federal research expenditures shows that 36 institutions improved by at least one position, including five that improved by more than 12 positions to arrive at their 2009 position. In the same period, 32 institutions declined one position or more but only two institutions lost more than 12 places in rank. At the extreme ends of the competitive performance, the institution with the largest improvement over these most recent years (1999-2009) moved up in rank by 28 places and the university with the largest decline fell by 23 places.

When we look at the rankings for each institution individually throughout the years 1990 to 2009 we observe a constant movement up and down over the years, with the current 2009 rank simply the momentary observance of a relative position that may well change by one or two places in subsequent years. Although four institutions maintained the same position in 2009 as they had in 1990, three of them nonetheless moved up and down during the intervening years, with the pluses and minuses balancing out. Only Johns Hopkins remained unchanged throughout this period.

In many cases, over the long period surveyed here, there may well be particular circumstances of individual universities that explain significant changes in rank order in the past two decades, and without a careful individual review of each institution's history, it is probably unwise to draw institutionally specific conclusions in most cases. Nonetheless, as this review would appear to indicate, the characteristics of the American research university marketplace for federal research dollars have remained relatively stable and consistent over at least the last two decades.

The Marketplace: Summary

This is a marketplace characterized by more than 600 competitors, but only 150 significant participants. Among those 150 participants, the top 25 dominate with around 45% market share. The 150 participants demonstrate considerable mobility within this highly structured marketplace, but most of the significant movement occurs in the third through sixth group of 25 institutions. The smaller the market share (the smaller the amount of federal research expenditures) the more institutional mobility is possible because the amount of research improvement or loss required to change rank is much less than in the top two groups. As institutions improve their position within this marketplace, the next improvement becomes harder to achieve, as the distance to the next group grows larger.

Although this marketplace is highly concentrated at the top with much stability in the rankings in the top groups, over the almost two decades of these data, the concentration has declined some as more institutions have entered the competition, and more institutions already in the competition have continued to invest heavily. As we have observed before, the most significant element in research university competition is the amount of money consistently available to invest in research and, we should add from this review, the amount of market share already captured in previous years.

Table 11 Change among Six Groups of the Top 150 Institutions in 2009 since 1990 Institutions Reporting Federal Research Expenditures, excluding Standalone Medical and Other Specialized Institutions (in constant 2009 \$000)

Group 1 in 2009	90 Rk	Grp
Johns Hopkins University 1,587,547 1 1 1,481,950 1 1 1,138,147 1 1 1,217,207 1 1 1,188	,924 1	1
Univ. of Michigan - Ann Arbor 636,216 2 1 628,422 4 1 493,652 4 1 452,754 6 1 35	,971 6	1
Univ. of Washington - Seattle 619,353 3 1 753,638 2 1 543,701 2 1 480,651 2 1 400	,391 4	1
Massachusetts Inst. of Tech. 532,618 4 1 515,371 9 1 456,276 5 1 463,009 3 1 466	,815 3	1
Univ. of California - San Diego 511,428 5 1 561,269 5 1 431,294 6 1 455,224 5 1 362	,134 5	1
Univ. of Wisconsin - Madison 507,898 6 1 523,653 8 1 368,086 10 1 385,507 7 1 354	,809 7	1
University of Pennsylvania 499,498 7 1 524,762 7 1 412,102 7 1 318,815 11 1 265	,314 13	3 1
Columbia University 483,111 8 1 490,087 10 1 354,713 11 1 347,364 8 1 309	,993 9	1
Stanford University 477,507 9 1 652,925 3 1 522,780 3 1 459,316 4 1 507	,472 2	! 1
U. of California - Los Angeles 467,505 10 1 555,864 6 1 372,203 9 1 325,302 9 1 326	,204 8	1
U. of Pittsburgh - Pittsburgh 463,192 11 1 475,463 12 1 287,451 17 1 254,816 18 1 179	,922 28	8 2
Duke University 438,767 12 1 419,354 14 1 275,840 19 1 253,723 20 1 210	,377 20	0 1
U. of North Carolina - Chapel Hill 431,837 13 1 366,688 19 1 270,195 21 1 254,915 17 1 183	,429 27	7 2
Washington Univ. in St. Louis 414,045 14 1 447,255 13 1 322,869 12 1 236,533 23 1 205	,794 21	1 1
U. of Minnesota - Twin Cities 390,602 15 1 370,874 18 1 306,863 14 1 309,631 12 1 285	,276 12	2 1
Penn. St. Univ Univ. Park 386,635 16 1 377,526 16 1 258,788 23 1 253,874 19 1 238	,554 16	6 1
	,668 10	0 1
Yale University 378,914 18 1 398,791 15 1 315,198 13 1 293,188 13 1 283	,561 11	1 1
Univ. of Southern California 375,024 19 1 376,795 17 1 294,837 15 1 256,092 15 1 24	,411 15	5 1
Ohio State Univ Columbus 339,820 20 1 343,147 20 1 199,714 32 2 193,582 27 2 150	,470 32	2 2
Vanderbilt University 336,405 21 1 315,193 25 1 172,642 40 2 158,098 36 2 132	,406 39	9 2
Georgia Inst. of Technology 322,452 22 1 286,262 28 2 166,696 41 2 166,027 34 2 186	,138 24	4 1
Case Western Reserve Univ. 313,044 23 1 235,686 40 2 207,043 30 2 166,416 33 2 139	,881 35	5 2
University of Texas - Austin 309,125 24 1 283,608 29 2 243,577 25 1 255,837 16 1 217	,400 19	9 1
California Inst. of Technology 305,682 25 1 294,343 26 2 288,463 16 1 192,412 29 2 179	,678 29	9 2
Group 2 in 2009 2009 Rk Grp 2004 Rk Grp 1999 Rk Grp 1994 Rk Grp 19		
	90 Rk	k Grp
University of Chicago 301,159 26 2 276,160 32 2 200,458 31 2 175,357 30 2 19	,084 23	3 1
University of Chicago 301,159 26 2 276,160 32 2 200,458 31 2 175,357 30 2 195,000 300,619 27 2 277,957 31 2 195,920 35 2 143,125 42 2 123	,084 23 ,352 46	3 1 2
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University of Chicago 301,159	,084 23 ,352 46 ,758 34 ,566 22 ,586 33 ,880 54 ,426 17 ,325 26 ,287 14 ,486 25 ,357 59 ,933 47 ,804 31 ,738 40 ,534 36 ,206 18 ,175 42	3 1 6 2 4 2 1 3 2 4 3 7 1 6 2 4 1 5 1 9 3 7 2 1 2 0 2 6 2 8 1 2 2 1 3
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University of Chicago 301,159 26 2 276,160 32 2 200,458 31 2 175,357 30 2 199. Northwestern University 300,619 27 2 277,957 31 2 195,920 35 2 143,125 42 2 123. Univ. of Alabama - Birmingham 300,130 28 2 315,410 24 1 244,034 24 1 168,839 32 2 143. University of Rochester 295,963 29 2 278,680 30 2 196,222 33 2 232,366 25 1 203. University of California - Davis 295,924 30 2 267,523 34 2 183,832 36 2 192,782 28 2 155. Emory University 295,831 31 2 293,211 27 2 196,169 34 2 151,763 39 2 100. University of Arizona 287,889 33 2 342,281 21 1 263,092 22 1 249,184 21 1 184. Univ. of California - Berkeley 262,069 34 2 324,048 23 1 282,144 18 1 260,869 14 1 260. Sep 34. University 255,178 37 2 264,048 36 2 182,247 37 2 124,084 51 3 115. University of Iowa 252,336 38 2 252,371 37 2 181,136 38 2 170,236 31 2 155. University of Iowa 252,336 38 2 252,371 37 2 181,136 38 2 170,236 31 2 155. University of Iowa 232,737 42 2 250,814 38 2 208,196 29 2 162,304 35 2 136. University of Florida 232,737 42 2 267,476 35 2 180,631 39 2 136,191 47 2 126. Univ. of Colorado - Boulder 239,687 40 2 250,814 38 2 208,196 29 2 162,304 35 2 136. University of Florida 232,737 42 2 267,476 35 2 180,631 39 2 136,191 47 2 126. Univ. of Colorado - Cincinnati 229,324 43 2 235,011 41 2 148,180 47 2 96,394 64 3 80 2 100,000 51 3 113,673 55 3 100.	,084 23 ,352 46 ,758 34 ,566 22 ,586 33 ,880 54 ,426 17 ,325 26 ,287 14 ,486 25 ,357 59 ,933 47 ,804 31 ,738 40 ,534 36 ,206 18 ,175 42 ,199 61 ,644 49	3 1 6 2 4 2 2 1 3 2 4 3 7 1 6 2 4 1 5 1 9 3 7 2 1 2 2 6 2 8 1 2 2 1 3 9 2 6 3 3
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University of Chicago 301,159 26 2 276,160 32 2 200,458 31 2 175,357 30 2 195, Northwestern University 300,619 27 2 277,957 31 2 195,920 35 2 143,125 42 2 123, Univ. of Alabama - Birmingham 300,130 28 2 315,410 24 1 244,034 24 1 168,839 32 2 143, University of Rochester 295,963 29 2 278,680 30 2 196,222 33 2 232,366 25 1 203, University of California - Davis 295,924 30 2 267,523 34 2 183,832 36 2 192,782 28 2 153, Emory University 295,831 31 2 293,211 27 2 196,169 34 2 151,763 39 2 102, University of Arizona 287,889 33 2 342,281 21 1 263,092 22 1 249,184 21 1 184, Univ. of California - Berkeley 262,069 34 2 324,048 23 1 282,144 18 1 260,869 14 1 266,869 14 1 266,070 36 2 246,126 39 2 152,571 45 2 108,202 57 3 93, University of Iowa 255,378 37 2 264,048 36 2 182,247 37 2 124,084 51 3 118, Univ. of Colorado - Denver 256,007 36 2 246,126 39 2 152,571 45 2 108,202 57 3 93, University of Iowa 252,336 38 2 252,971 37 2 181,136 38 2 170,236 31 2 152, 304 35 2 138, Univ. of Colorado - Boulder 239,687 40 2 250,814 38 2 208,186 29 2 162,304 35 2 138, Univ. of Colorado - Boulder 239,687 40 2 250,814 38 2 208,186 29 2 162,304 35 2 138, Univ. of Colorado - Boulder 239,687 40 2 250,814 38 2 208,186 29 2 162,304 35 2 138, Univ. of Colorado - Boulder 239,687 40 2 250,814 38 2 208,186 29 2 162,304 35 2 138, Univ. of Colorado - Boulder 239,244 41 2 271,008 33 2 288,800 26 2 218,965 26 2 224, University of Florida 232,737 42 2 267,476 35 2 180,631 39 2 136,191 47 2 128, Univ. of Cincinnati 229,324 43 2 235,011 41 2 148,180 47 2 96,394 64 3 80,000 45 2 189,364 49 2 135,800 51 3 113,673 55 3 100 University of Hawaii - Manoa 203,453 46 2 225,452 44 2 137,978 50 2 67,372 82 4 86,800 40 40 40 40 40 40 40 40 40 40 40 40 4	,084 23 ,352 46 ,758 34 ,566 22 ,586 33 ,880 54 ,426 17 ,325 26 ,287 14 ,486 25 ,357 59 ,933 47 ,804 31 ,738 40 ,534 36 ,206 18 ,175 42 ,199 61 ,664 49 ,661 56 ,635 65	3 1 2 4 2 2 1 3 2 4 3 3 7 1 6 2 4 1 1 5 1 9 3 7 2 1 2 2 6 3 3 1 2 2 6 6 3 3 5 5 3 5 0 2
University of Chicago 301,159	,084 23 ,352 46 ,758 34 ,566 22 ,586 33 ,880 54 ,426 17 ,325 26 ,287 14 ,486 25 ,357 59 ,933 47 ,804 31 ,738 40 ,534 36 ,206 18 ,175 42 ,199 61 ,644 49 ,661 56 ,635 65	3 1 2 4 2 2 1 3 2 4 3 7 1 6 2 4 1 5 1 9 3 7 2 1 2 2 6 3 1 2 2 1 3 2 2 3 5 3 3 5 2 2 3

The Top American Research Universities

Table 11, cont.

Group 3 in 2009	2009	Rk	Grp	2004	Rk	Grp	1999	Rk	Grp	1994	Rk	Grp	1990	Rk	Grp
University of California - Irvine	177,098	51	3	182,009	52	3	111,521	61	3	115,009	54	3	104,128	53	3
Purdue Univ West Lafayette	175,302	52	3	173,686	53	3	141,361	48	2	140,498	44	2	127,877	44	2
University of Miami	172,000	53	3	171,098	56	3	150,481	46	2	156,600	37	2	135,177	37	2
Carnegie Mellon University	170,260	54	3	208,363	48	2	133,533	52	3	150,147	40	2	128,048	43	2
Michigan State University	164,198	55	3	172,942	55	3	132,686	53	3	126,314	48	2	115,493	50	2
University at Buffalo	152,146	56	3	173,415	54	3	126,269	56	3	139,926	45	2	132,662	38	2
Rutgers - State University of NJ	151,122	57	3	138,022	63	3	99,463	65	3	103,735	58	3	72,346	70	3
Virginia Polytechnic Inst. & St. U.	148,411	58	3	115,319	73	3	111,345	62	3	125,690	49	2	91,149	60	3
University of Kentucky	145,483	59	3	156,566	57	3	97,754	66	3	83,464	71	3	58,741	81	4
Wake Forest University	144,454	60	3	144,738	61	3	89,053	69	3	62,806	85	4	59,872	79	4
Yeshiva University	137,108	61	3	182,642	51	3	132,457	54	3	120,949	52	3	129,071	41	2
North Carolina State University	135,318	62	3	124,863	68	3	118,925	60	3	119,051	53	3	86,860	64	3
Arizona State University	134,598	63	3	96,284	84	4	79,618	76	4	52,504	94	4	52,747	88	4
Dartmouth College	134,113	64	3	148,396	60	3	69,036	82	4	71,426	77	4	59,779	80	4
U. of New Mexico - Albuquerque	133,334	65	3	135,365	64	3	125,510	57	3	88,559	67	3	50,483	90	4
Princeton University	128,876	66	3	134,324	65	3	107,783	64	3	100,128	61	3	102,278	55	3
Georgetown University	119,925	67	3	115,540	72	3	124,027	58	3	94,053	66	3	71,598	71	3
Indiana U Purdue U Indianapolis	119,060	68	3	120,718	70	3	90,624	68	3	83,794	70	3	68,027	73	3
Univ. of Missouri - Columbia	118,998	69	3	108,852	78	4	79,573	77	4	53,531	93	4	48,446	91	4
Oregon State University	118,252	70	3	125,694	67	3	120,596	59	3	111,288	56	3	100,264	57	3
Florida State University	117,294	71	3	124,116	69	3	82,219	73	3	68,027	81	4	65,317	75	3
Wayne State University	116,682	72	3	138,259	62	3	85,090	70	3	74,148	75	3	56,512	83	4
U. of California - Santa Barbara	113,837	73	3	111,196	76	4	109,336	63	3	101,482	60	3	94,966	58	3
Tulane University	109,269	74	3	105,975	80	4	75,001	78	4	72,438	76	4	56,200	84	4
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U. of South Carolina - Columbia	107,504	75	3	86,615	91	4	71,620	80	4	64,851	83	4	40,838	99	4
ř	•			·				80 Rk	4 Grp	•	83 Rk	4 Grp	40,838	99 Rk	4 Grp
U. of South Carolina - Columbia	107,504	75	3	86,615	91	4	71,620			64,851					
U. of South Carolina - Columbia Group 4 in 2009	107,504	75 Rk	3 Grp	86,615 2004	91 Rk	4 Grp	71,620	Rk	Grp	64,851 1994	Rk	Grp	1990	Rk	Grp
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University	107,504 2009 107,396	75 Rk 76	3 Grp	2004 148,414	91 Rk	4 Grp	71,620 1999 138,745	Rk 49	Grp 2	64,851 1994 124,293	Rk 50	Grp 2	1990 110,911	Rk 51	Grp 3
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia	107,504 2009 107,396 106,932	75 Rk 76 77	3 Grp 4 4	2004 148,414 116,138	91 Rk 59 71	4 Grp 3 3	71,620 1999 138,745 82,830	Rk 49 72	Grp 2 3	64,851 1994 124,293 94,075	Rk 50 65	Grp 2 3	1990 110,911 87,013	51 63	Grp 3 3
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks	107,504 2009 107,396 106,932 105,885	75 Rk 76 77 78	3 Grp 4 4 4 4	2004 2004 148,414 116,138 90,729	91 Rk 59 71 89	3 3 4	71,620 1999 138,745 82,830 51,174	Rk 49 72 97	Grp 2 3 4	64,851 1994 124,293 94,075 69,729	Fk 50 65 78	Grp 2 3 4	1990 110,911 87,013 63,272	Fil 63 76	Grp 3 3 4
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks Mississippi State University	107,504 2009 107,396 106,932 105,885 102,903	75 Rk 76 77 78 79	3 Grp 4 4 4 4	2004 2004 148,414 116,138 90,729 99,090	91 Rk 59 71 89 83	3 3 4 4	71,620 1999 138,745 82,830 51,174 68,722	Rk 49 72 97 83	Grp 2 3 4 4	64,851 1994 124,293 94,075 69,729 58,010	50 65 78 88	Grp 2 3 4 4	1990 110,911 87,013 63,272 42,503 75,956	51 63 76 97	3 3 4 4
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks Mississippi State University Tufts University	107,504 2009 107,396 106,932 105,885 102,903 102,330	75 Rk 76 77 78 79 80	3 Grp 4 4 4 4 4	2004 148,414 116,138 90,729 99,090 112,099	91 Rk 59 71 89 83 75	3 3 4 4 3 3	71,620 1999 138,745 82,830 51,174 68,722 92,809	Rk 49 72 97 83 67	Grp 2 3 4 4 3	64,851 1994 124,293 94,075 69,729 58,010 84,954	50 65 78 88 68	Grp 2 3 4 4 3	1990 110,911 87,013 63,272 42,503	51 63 76 97 67	3 3 4 4 3
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks Mississippi State University Tufts University Virginia Commonwealth Univ.	107,504 2009 107,396 106,932 105,885 102,903 102,330 97,433	75 Rk 76 77 78 79 80 81	3 Grp 4 4 4 4 4 4	2004 148,414 116,138 90,729 99,090 112,099 107,360	91 Rk 59 71 89 83 75 79	3 3 4 4 3 4	71,620 1999 138,745 82,830 51,174 68,722 92,809 71,154	Rk 49 72 97 83 67 81	Grp 2 3 4 4 3 4	64,851 1994 124,293 94,075 69,729 58,010 84,954 81,963	50 65 78 88 68 72	Grp 2 3 4 4 3 3	1990 110,911 87,013 63,272 42,503 75,956 82,534	51 63 76 97 67 66	3 3 4 4 3 3
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks Mississippi State University Tufts University Virginia Commonwealth Univ. University at Albany	107,504 2009 107,396 106,932 105,885 102,903 102,330 97,433 96,910	75 Rk 76 77 78 79 80 81 82	3 Grp 4 4 4 4 4 4 4	2004 148,414 116,138 90,729 99,090 112,099 107,360 114,166	91 Rk 59 71 89 83 75 79 74	3 3 4 4 3 4 3	71,620 1999 138,745 82,830 51,174 68,722 92,809 71,154 68,299	Rk 49 72 97 83 67 81 84	Grp 2 3 4 4 3 4 4	64,851 1994 124,293 94,075 69,729 58,010 84,954 81,963 40,375	50 65 78 88 68 72 106	Grp 2 3 4 4 3 5	1990 110,911 87,013 63,272 42,503 75,956 82,534 28,758	51 63 76 97 67 66 115	3 3 4 4 3 3 5
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks Mississippi State University Tufts University Virginia Commonwealth Univ. University at Albany Iowa State University	107,504 2009 107,396 106,932 105,885 102,903 102,330 97,433 96,910 96,483	75 Rk 76 77 78 79 80 81 82 83	3 Grp 4 4 4 4 4 4 4	2004 148,414 116,138 90,729 99,090 112,099 107,360 114,166 111,180	91 Rk 59 71 89 83 75 79 74 77	3 3 4 4 3 4 3 4	71,620 1999 138,745 82,830 51,174 68,722 92,809 71,154 68,299 80,022	Rk 49 72 97 83 67 81 84 75	Grp 2 3 4 4 3 4 3 4 3	64,851 1994 124,293 94,075 69,729 58,010 84,954 81,963 40,375 96,528	Fk 50 65 78 88 68 72 106 63	Grp 2 3 4 4 3 5 3	1990 110,911 87,013 63,272 42,503 75,956 82,534 28,758 67,531	51 63 76 97 67 66 115 74	3 3 4 4 3 3 5 3
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks Mississippi State University Tufts University Virginia Commonwealth Univ. University at Albany Iowa State University Washington State U Pullman	107,504 2009 107,396 106,932 105,885 102,903 102,330 97,433 96,910 96,483 95,824	75 Rk 76 77 78 79 80 81 82 83 84	3 Grp 4 4 4 4 4 4 4 4	2004 148,414 116,138 90,729 99,090 112,099 107,360 114,166 111,180 90,337	91 Fk 59 71 89 83 75 79 74 77 90	3 3 4 4 3 4 4 4	71,620 1999 138,745 82,830 51,174 68,722 92,809 71,154 68,299 80,022 65,889	81 84 75 87	Grp 2 3 4 4 3 4 4 3 4	64,851 1994 124,293 94,075 69,729 58,010 84,954 81,963 40,375 96,528 78,145	50 65 78 88 68 72 106 63 74	Grp 2 3 4 4 3 5 3 5	1990 110,911 87,013 63,272 42,503 75,956 82,534 28,758 67,531 53,330	51 63 76 97 67 66 115 74 86	3 3 4 4 3 3 5 3 4
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks Mississippi State University Tufts University Virginia Commonwealth Univ. University at Albany Iowa State University Washington State U Pullman Brown University	107,504 2009 107,396 106,932 105,885 102,903 102,330 97,433 96,910 96,483 95,824 93,753	75 Rk 76 77 78 79 80 81 82 83 84 85	3 Grp 4 4 4 4 4 4 4 4 4	2004 148,414 116,138 90,729 99,090 112,099 107,360 114,166 111,180 90,337 101,405	91 Rk 59 71 89 83 75 79 74 77 90 81	3 3 4 4 3 4 4 4	71,620 1999 138,745 82,830 51,174 68,722 92,809 71,154 68,299 80,022 65,889 66,873	Rk 49 72 97 83 67 81 84 75 87	Grp 2 3 4 4 3 4 4 3 4 4	64,851 1994 124,293 94,075 69,729 58,010 84,954 81,963 40,375 96,528 78,145 63,048	50 65 78 88 68 72 106 63 74 84	Grp 2 3 4 4 3 5 3 4	1990 110,911 87,013 63,272 42,503 75,956 82,534 28,758 67,531 53,330 73,236	51 63 76 97 67 66 115 74 86 68	3 3 4 4 3 3 5 3 4 3
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks Mississippi State University Tufts University Virginia Commonwealth Univ. University at Albany Iowa State University Washington State U Pullman Brown University University of Vermont	107,504 2009 107,396 106,932 105,885 102,903 102,330 97,433 96,910 96,483 95,824 93,753 92,555	75 Rk 76 77 78 79 80 81 82 83 84 85 86	3 Grp 4 4 4 4 4 4 4 4 4 4	86,615 2004 148,414 116,138 90,729 99,090 112,099 107,360 114,166 111,180 90,337 101,405 95,245	91 Rk 59 71 89 83 75 79 74 77 90 81 85	3 3 4 4 3 4 4 4 4 4	71,620 1999 138,745 82,830 51,174 68,722 92,809 71,154 68,299 80,022 65,889 66,873 53,298	Rk 49 72 97 83 67 81 84 75 87 85 95	Grp 2 3 4 4 3 4 4 4 4 4	64,851 1994 124,293 94,075 69,729 58,010 84,954 81,963 40,375 96,528 78,145 63,048 57,629	50 65 78 88 68 72 106 63 74 84	Grp 2 3 4 4 3 5 3 4 4 4	1990 110,911 87,013 63,272 42,503 75,956 82,534 28,758 67,531 53,330 73,236 60,612	51 63 76 97 66 115 74 86 68 77	3 3 4 4 3 5 3 4 4 3 4
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks Mississippi State University Tufts University Virginia Commonwealth Univ. University at Albany Iowa State University Washington State U Pullman Brown University University of Vermont Univ. of Tennessee - Knoxville	107,504 2009 107,396 106,932 105,885 102,903 102,330 97,433 96,910 96,483 95,824 93,753 92,555 91,706	75 Rk 76 77 78 79 80 81 82 83 84 85 86 87	3 Grp 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	86,615 2004 148,414 116,138 90,729 99,090 112,099 107,360 114,166 111,180 90,337 101,405 95,245 78,502	91 Rk 59 71 89 83 75 79 74 77 90 81 85 96	3 3 4 4 3 4 4 4 4 4 4	71,620 1999 138,745 82,830 51,174 68,722 92,809 71,154 68,299 80,022 65,889 66,873 53,298 62,046	Rk 49 72 97 83 67 81 84 75 87 85 95 88	Grp 2 3 4 4 3 4 4 4 4 4 4	64,851 1994 124,293 94,075 69,729 58,010 84,954 81,963 40,375 96,528 78,145 63,048 57,629 84,443	50 65 78 88 68 72 106 63 74 84 89 69	Grp 2 3 4 4 3 5 3 4 4 4 3	1990 110,911 87,013 63,272 42,503 75,956 82,534 28,758 67,531 53,330 73,236 60,612 69,798	51 63 76 97 66 115 74 86 68 77 72	3 3 4 4 3 3 5 3 4 3 4 3
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks Mississippi State University Tufts University Virginia Commonwealth Univ. University at Albany lowa State University Washington State U Pullman Brown University University of Vermont Univ. of Tennessee - Knoxville George Washington University	107,504 2009 107,396 106,932 105,885 102,903 102,330 97,433 96,910 96,483 95,824 93,753 92,555 91,706 88,949	75 Rk 76 77 78 79 80 81 82 83 84 85 86 87 88	3 Grp 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	86,615 2004 148,414 116,138 90,729 99,090 112,099 107,360 114,166 111,180 90,337 101,405 95,245 78,502 94,253	91 Rk 59 71 89 83 75 79 74 77 90 81 85 96 86	Grp 3 3 4 4 4 4 4 4 4 4 4	71,620 1999 138,745 82,830 51,174 68,722 92,809 71,154 68,299 80,022 65,889 66,873 53,298 62,046 73,767	83 67 81 84 75 87 85 95 88 79	Grp 2 3 4 4 3 4 4 4 4 4	64,851 1994 124,293 94,075 69,729 58,010 84,954 81,963 40,375 96,528 78,145 63,048 57,629 84,443 41,695	50 65 78 88 68 72 106 63 74 84 89 69	Grp 2 3 4 4 3 5 3 4 4 3 5 5 5	1990 110,911 87,013 63,272 42,503 75,956 82,534 28,758 67,531 53,330 73,236 60,612 69,798 53,197	51 63 76 97 67 66 115 74 86 68 77 72 87	3 3 4 4 3 5 3 4 3 4 3 4 3
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks Mississippi State University Tufts University Virginia Commonwealth Univ. University at Albany Iowa State University Washington State U Pullman Brown University University of Vermont Univ. of Tennessee - Knoxville George Washington University New Mexico St. U Las Cruces	107,504 2009 107,396 106,932 105,885 102,903 102,330 97,433 96,910 96,483 95,824 93,753 92,555 91,706 88,949 88,707	75 Rk 76 77 78 79 80 81 82 83 84 85 86 87 88	3 Grp 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	86,615 2004 148,414 116,138 90,729 99,090 112,099 107,360 114,166 111,180 90,337 101,405 95,245 78,502 94,253 92,088	91 Rk 59 71 89 83 75 79 74 77 90 81 85 96 86 88	3 3 4 4 3 4 4 4 4 4 4 4 4	71,620 1999 138,745 82,830 51,174 68,722 92,809 71,154 68,299 80,022 65,889 66,873 53,298 62,046 73,767 84,004	Rk 49 72 97 83 67 81 84 75 87 85 95 88 79 71	Grp 2 3 4 4 3 4 4 4 4 4 3	64,851 1994 124,293 94,075 69,729 58,010 84,954 81,963 40,375 96,528 78,145 63,048 57,629 84,443 41,695 101,989	50 65 78 88 68 72 106 63 74 84 89 69 102 59	Grp 2 3 4 4 3 5 3 4 4 3 5 3 5 3	1990 110,911 87,013 63,272 42,503 75,956 82,534 28,758 67,531 53,330 73,236 60,612 69,798 53,197 108,485	51 63 76 97 67 66 115 74 86 68 77 72 87 52	3 3 4 4 3 5 3 4 4 3 4 3 4 3
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks Mississippi State University Tufts University Virginia Commonwealth Univ. University at Albany Iowa State University Washington State U Pullman Brown University University of Vermont Univ. of Tennessee - Knoxville George Washington University New Mexico St. U Las Cruces University of Delaware	2009 107,396 106,932 105,885 102,903 102,330 97,433 96,910 96,483 95,824 93,753 92,555 91,706 88,949 88,707 87,090	75 Rk 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90	3 Grp 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2004 148,414 116,138 90,729 99,090 112,099 107,360 114,166 111,180 90,337 101,405 95,245 78,502 94,253 92,088 92,313	91 Rk 59 71 89 83 75 79 74 77 90 81 85 96 86 88 87	3 3 4 4 3 4 4 4 4 4 4 4 4 4 4 4	71,620 1999 138,745 82,830 51,174 68,722 92,809 71,154 68,299 80,022 65,889 66,873 53,298 62,046 73,767 84,004 51,146	83 67 81 84 75 87 85 95 88 79 71 98	Grp 2 3 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 6 8 6 8 8 8 8 8	64,851 1994 124,293 94,075 69,729 58,010 84,954 81,963 40,375 96,528 78,145 63,048 57,629 84,443 41,695 101,989 44,895	50 65 78 88 68 72 106 63 74 84 89 69 102 59 97	Grp 2 3 4 4 3 5 3 4 4 3 5 3 4 4 4 3 5 4	1990 110,911 87,013 63,272 42,503 75,956 82,534 28,758 67,531 53,330 73,236 60,612 69,798 53,197 108,485 34,889	51 63 76 97 66 115 74 86 68 77 72 87 52 107	3 3 4 4 3 5 3 4 3 5 5
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks Mississippi State University Tufts University Virginia Commonwealth Univ. University at Albany Iowa State University Washington State U Pullman Brown University University of Vermont Univ. of Tennessee - Knoxville George Washington University New Mexico St. U Las Cruces University of Delaware Louisiana St. U Baton Rouge	107,504 2009 107,396 106,932 105,885 102,903 102,330 97,433 96,910 96,483 95,824 93,753 92,555 91,706 88,949 88,707 87,090 86,546	75 Rk 76 77 88 79 80 81 82 83 84 85 86 87 88 89 90 91	3 Grp 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	86,615 2004 148,414 116,138 90,729 99,090 112,099 107,360 114,166 111,180 90,337 101,405 95,245 78,502 94,253 92,088 92,313 67,229	91 Rk 59 71 89 83 75 79 74 77 90 81 85 96 86 88 87 104	3 3 4 4 3 4 4 4 4 4 4 5 5	71,620 1999 138,745 82,830 51,174 68,722 92,809 71,154 68,299 80,022 65,889 66,873 53,298 62,046 73,767 84,004 51,146 55,079	Rk 49 72 97 83 67 81 84 75 85 95 88 79 71 98 92	Grp 2 3 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	64,851 1994 124,293 94,075 69,729 58,010 84,954 81,963 40,375 96,528 78,145 63,048 57,629 84,443 41,695 101,989 44,895 42,742	50 65 78 88 68 72 106 63 74 89 69 102 59 97	Grp 2 3 4 4 3 5 3 4 4 3 5 3 4 5	1990 110,911 87,013 63,272 42,503 75,956 82,534 28,758 67,531 53,330 73,236 60,612 69,798 53,197 108,485 34,889 46,468	51 63 76 97 66 115 74 86 68 77 72 87 52 107 92	3 3 4 4 3 5 3 4 3 5 4 4 3 5 4
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks Mississippi State University Tufts University Virginia Commonwealth Univ. University at Albany lowa State University Washington State U Pullman Brown University University of Vermont Univ. of Tennessee - Knoxville George Washington University New Mexico St. U Las Cruces University of Delaware Louisiana St. U Baton Rouge Utah State University	107,504 2009 107,396 106,932 105,885 102,903 102,330 97,433 96,910 96,483 95,824 93,753 92,555 91,706 88,949 88,707 87,090 86,546 84,082	75 Rk 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92	3 Grp 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	86,615 2004 148,414 116,138 90,729 99,090 112,099 107,360 114,166 111,180 90,337 101,405 95,245 78,502 94,253 92,088 92,313 67,229 130,117	91 Rk 59 71 89 83 75 79 74 77 90 81 85 96 86 88 87 104 66	3 3 4 4 3 4 4 4 4 4 4 5 3 3	71,620 1999 138,745 82,830 51,174 68,722 92,809 71,154 68,299 80,022 65,889 66,873 53,298 62,046 73,767 84,004 51,146 55,079 80,398	Rk 49 72 97 83 67 81 84 75 85 95 88 79 71 98 92 74	Grp 2 3 4 4 3 4 4 4 4 4 4 3 4 4 3 4 4 3 6 6 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	64,851 1994 124,293 94,075 69,729 58,010 84,954 81,963 40,375 96,528 78,145 63,048 57,629 84,443 41,695 101,989 44,895 42,742 78,893	50 65 78 88 68 72 106 63 74 84 89 69 102 59 97 101 73	Grp 2 3 4 4 3 5 3 4 4 3 5 3 4 5 3 4 5 3	1990 110,911 87,013 63,272 42,503 75,956 82,534 28,758 67,531 53,330 73,236 60,612 69,798 53,197 108,485 34,889 46,468 116,969	51 63 76 97 66 115 74 86 68 77 72 87 52 107 92 48	3 3 4 4 3 3 4 3 4 3 5 4 2
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks Mississippi State University Tufts University Virginia Commonwealth Univ. University at Albany Iowa State University Washington State U Pullman Brown University University of Vermont Univ. of Tennessee - Knoxville George Washington University New Mexico St. U Las Cruces University of Delaware Louisiana St. U Baton Rouge Utah State University University of Nebraska - Lincoln	107,504 2009 107,396 106,932 105,885 102,903 102,330 97,433 96,910 96,483 95,824 93,753 92,555 91,706 88,949 88,707 87,090 86,546 84,082 83,702	75 Rk 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93	3 Grp 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	86,615 2004 148,414 116,138 90,729 99,090 112,099 107,360 114,166 111,180 90,337 101,405 95,245 78,502 94,253 92,088 92,313 67,229 130,117 80,681	91 Rk 59 71 89 83 75 79 74 77 90 81 85 96 86 88 87 104 66 93	3 3 4 4 3 4 4 4 4 4 5 5 3 4	71,620 1999 138,745 82,830 51,174 68,722 92,809 71,154 68,299 80,022 65,889 66,873 53,298 62,046 73,767 84,004 51,146 55,079 80,398 54,615	Rk 49 72 97 83 67 81 84 75 85 95 88 79 71 98 92 74 93	Grp 2 3 4 4 3 4 4 4 4 4 4 3 4 4 4 4 4 4 4	64,851 1994 124,293 94,075 69,729 58,010 84,954 81,963 40,375 96,528 78,145 63,048 57,629 84,443 41,695 101,989 44,895 42,742 78,893 60,666	50 65 78 88 68 72 106 63 74 84 89 69 102 59 97 101 73 86	Grp 2 3 4 4 3 5 3 4 4 3 5 3 4 4 5 3 4 4 5	1990 110,911 87,013 63,272 42,503 75,956 82,534 28,758 67,531 53,330 73,236 60,612 69,798 53,197 108,485 34,889 46,468 116,969 45,002	51 63 76 97 66 115 74 86 68 77 72 87 52 107 92 48 95	Grp 3 3 4 4 3 3 5 3 4 4 3 5 4 2 4
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks Mississippi State University Tufts University Virginia Commonwealth Univ. University at Albany Iowa State University Washington State U Pullman Brown University University of Vermont Univ. of Tennessee - Knoxville George Washington University New Mexico St. U Las Cruces University of Delaware Louisiana St. U Baton Rouge Utah State University University of Nebraska - Lincoln U. of Massachusetts - Amherst	107,504 2009 107,396 106,932 105,885 102,903 102,330 97,433 96,910 96,483 95,824 93,753 92,555 91,706 88,949 88,707 87,090 86,546 84,082 83,702 80,163	75 Rk 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94	3 Grp 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	86,615 2004 148,414 116,138 90,729 99,090 112,099 107,360 114,166 111,180 90,337 101,405 95,245 78,502 94,253 92,088 92,313 67,229 130,117 80,681 78,896	91 Rk 59 71 89 83 75 79 74 77 90 81 85 96 86 88 87 104 66 93 95	Grp 3 3 4 4 3 4 4 4 4 4 5 3 4 4 4 4 4 5 3 4 4 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	71,620 1999 138,745 82,830 51,174 68,722 92,809 71,154 68,299 80,022 65,889 66,873 53,298 62,046 73,767 84,004 51,146 55,079 80,398 54,615 58,898	Rk 49 72 97 83 67 81 84 75 85 95 88 79 71 98 92 74 93 91	Grp 2 3 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	64,851 1994 124,293 94,075 69,729 58,010 84,954 81,963 40,375 96,528 78,145 63,048 57,629 84,443 41,695 101,989 44,895 42,742 78,893 60,666 55,978	50 65 78 88 68 72 106 63 74 84 89 69 102 59 97 101 73 86 91	Grp 2 3 4 4 3 5 3 4 4 3 5 3 4 4 4 4 4 4	1990 110,911 87,013 63,272 42,503 75,956 82,534 28,758 67,531 53,330 73,236 60,612 69,798 53,197 108,485 34,889 46,468 116,969 45,002 53,582	51 63 76 97 66 115 74 86 68 77 72 87 52 107 92 48 95 85	Gr; 3 3 4 4 3 5 4 3 5 4 2 4 4
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks Mississippi State University Tufts University Virginia Commonwealth Univ. University at Albany lowa State University Washington State U Pullman Brown University University of Vermont Univ. of Tennessee - Knoxville George Washington University New Mexico St. U Las Cruces University of Delaware Louisiana St. U Baton Rouge Utah State University University of Nebraska - Lincoln U. of Massachusetts - Amherst U. of New Hampshire - Durham	107,504 2009 107,396 106,932 105,885 102,903 102,330 97,433 96,910 96,483 95,824 93,753 92,555 91,706 88,949 88,707 87,090 86,546 84,082 83,702 80,163 78,633	75 Rk 76 77 88 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95	3 Grp 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	86,615 2004 148,414 116,138 90,729 99,090 112,099 107,360 114,166 111,180 90,337 101,405 95,245 78,502 94,253 92,088 92,313 67,229 130,117 80,681 78,896 81,867	91 Rk 59 71 89 83 75 79 74 77 90 81 85 96 86 88 87 104 66 93 95 92	Grp 3 3 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	71,620 1999 138,745 82,830 51,174 68,722 92,809 71,154 68,299 80,022 65,889 66,873 53,298 62,046 73,767 84,004 51,146 55,079 80,398 54,615 58,898 45,176	Rk 49 72 97 83 67 81 84 75 85 95 88 79 71 98 92 74 93 91 102	Grp 2 3 4 4 3 4 4 4 4 4 3 4 4 5	64,851 1994 124,293 94,075 69,729 58,010 84,954 81,963 40,375 96,528 78,145 63,048 57,629 84,443 41,695 101,989 44,895 42,742 78,893 60,666 55,978 42,812	50 65 78 88 68 72 106 63 74 84 89 69 102 59 97 101 73 86 91 100	Grp 2 3 4 4 3 5 3 4 4 3 5 3 4 4 4 4 4	1990 110,911 87,013 63,272 42,503 75,956 82,534 28,758 67,531 53,330 73,236 60,612 69,798 53,197 108,485 34,889 46,468 116,969 45,002 53,582 28,674	51 63 76 97 66 115 74 86 68 77 72 87 52 107 92 48 95 85 116	Gr; 3 3 4 4 3 3 5 3 4 3 4 3 5 4 2 4 4 5 5
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks Mississippi State University Tufts University Virginia Commonwealth Univ. University at Albany Iowa State University Washington State U Pullman Brown University University of Vermont Univ. of Tennessee - Knoxville George Washington University New Mexico St. U Las Cruces University of Delaware Louisiana St. U Baton Rouge Utah State University University of Nebraska - Lincoln U. of Massachusetts - Amherst U. of New Hampshire - Durham Indiana Univ Bloomington	2009 107,396 106,932 105,885 102,903 102,330 97,433 96,910 96,483 95,824 93,753 92,555 91,706 88,949 88,707 87,090 86,546 84,082 83,702 80,163 78,633 78,633 78,498 76,085	75 Rk 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	3 Grp 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	86,615 2004 148,414 116,138 90,729 99,090 112,099 107,360 114,166 111,180 90,337 101,405 95,245 78,502 94,253 92,088 92,313 67,229 130,117 80,681 78,896 81,867 80,479	91 Rk 59 71 89 83 75 79 74 77 90 81 85 96 86 88 87 104 66 93 95 92 94	Grp 3 3 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	71,620 1999 138,745 82,830 51,174 68,722 92,809 71,154 68,299 80,022 65,889 66,873 53,298 62,046 73,767 84,004 51,146 55,079 80,398 54,615 58,898 45,176 60,417 37,049	Rk 49 72 97 83 67 81 84 75 85 95 88 79 71 98 92 74 93 91 102 90	Grp 2 3 4 4 3 4 4 4 4 3 4 4 5 4	64,851 1994 124,293 94,075 69,729 58,010 84,954 81,963 40,375 96,528 78,145 63,048 57,629 84,443 41,695 101,989 44,895 42,742 78,893 60,666 55,978 42,812 55,864	50 65 78 88 68 72 106 63 74 84 89 102 59 97 101 73 86 91 100 92	Grp 2 3 4 4 3 5 3 4 4 3 5 3 4 4 4 4 4 4	1990 110,911 87,013 63,272 42,503 75,956 82,534 28,758 67,531 53,330 73,236 60,612 69,798 53,197 108,485 34,889 46,468 116,969 45,002 53,582 28,674 45,351 27,484	51 63 76 97 66 115 74 86 68 77 72 87 52 107 92 48 95 85 116 93	Grr 3 3 4 4 3 3 5 3 4 4 3 5 4 4 5 4 4 5 4
U. of South Carolina - Columbia Group 4 in 2009 Stony Brook University University of Georgia University of Alaska - Fairbanks Mississippi State University Tufts University Virginia Commonwealth Univ. University at Albany Iowa State University Washington State U Pullman Brown University University of Vermont Univ. of Tennessee - Knoxville George Washington University New Mexico St. U Las Cruces University of Delaware Louisiana St. U Baton Rouge Utah State University University of Nebraska - Lincoln U. of Massachusetts - Amherst U. of New Hampshire - Durham Indiana Univ Bloomington Univ. of California - Santa Cruz	2009 107,396 106,932 105,885 102,903 102,330 97,433 96,910 96,483 95,824 93,753 92,555 91,706 88,949 88,707 87,090 86,546 84,082 83,702 80,163 78,633 78,498	75 Rk 76 77 88 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97	3 Grp 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	86,615 2004 148,414 116,138 90,729 99,090 112,099 107,360 114,166 111,180 90,337 101,405 95,245 78,502 94,253 92,088 92,313 67,229 130,117 80,681 78,896 81,867 80,479 64,122	91 Rk 59 71 89 83 75 79 74 77 90 81 85 96 86 88 87 104 66 93 95 92 94 107	Grp 3 3 4 4 3 4 4 4 4 4 4 5 3 4 4 4 5 5	71,620 1999 138,745 82,830 51,174 68,722 92,809 71,154 68,299 80,022 65,889 66,873 53,298 62,046 73,767 84,004 51,146 55,079 80,398 54,615 58,898 45,176 60,417	Rk 49 72 97 83 67 81 84 75 85 95 88 79 71 98 92 74 93 91 102 90 114	Grp 2 3 4 4 3 4 4 4 4 4 4 5 4 5 6	64,851 1994 124,293 94,075 69,729 58,010 84,954 81,963 40,375 96,528 78,145 63,048 57,629 84,443 41,695 101,989 44,895 42,742 78,893 60,666 55,978 42,812 55,864 40,709	50 65 78 88 68 72 106 63 74 84 89 69 102 59 97 101 73 86 91 100 92 104	Grp 2 3 4 4 3 5 3 4 4 5 3 4 4 5	1990 110,911 87,013 63,272 42,503 75,956 82,534 28,758 67,531 53,330 73,236 60,612 69,798 53,197 108,485 34,889 46,468 116,969 45,002 53,582 28,674 45,351	51 63 76 97 66 115 74 86 68 77 72 87 52 107 92 48 95 85 116 93 121	Grp. 3 3 4 4 3 3 5 3 4 3 4 3 5 4 2 4 4 5 5 4 5

Table 11, cont.

Group 5 in 2009	2009	Rk	Grp	2004	Rk	Grp	1999	Rk	Grp	1994	Rk	Grp	1990	Rk	Grp
University of Louisville	72,770	101	5	65,665	106	5	22,947	141	6	15,861	155		17,133	138	6
Montana State Univ Bozeman	71,620	102	5	70,967	101	5	38,743	112	5	26,917	129	6	17,956	135	6
University of Dayton	70,469	103	5	68,282	102	5	45,425	101	5	68,402	79	4	57,615	82	4
Drexel University	67,620	104	5	66,252	105	5	19,074	153		18,824	142	6	13,412	154	
Temple University	65,126	105	5	60,820	111	5	43,917	104	5	46,418	96	4	51,902	89	4
University of Central Florida	65,042	106	5	53,062	118	5	23,703	137	6	28,304	125	5	18,556	134	6
West Virginia University	64,388	107	5	73,311	99	4	38,792	111	5	59,214	87	4	42,925	96	4
University of Nevada - Reno	63,709	108	5	61,219	109	5	36,315	115	5	32,152	120	5	23,650	128	6
University of Oregon	61,464	109	5	52,596	119	5	40,375	108	5	37,976	110	5	39,974	101	5
New Mexico Inst. of Min. & Tech.	61,178	110	5	16,698	181		15,832	167		12,967	170		11,129	163	
Kansas State University	57,743	111	5	67,608	103	5	41,507	107	5	36,852	114	5	31,047	111	5
University of Notre Dame	57,425	112	5	58,643	113	5	34,878	120	5	27,977	126	6	25,524	126	6
University of Rhode Island	57,148	113	5	58,570	114	5	53,478	94	4	56,483	90	4	40,688	100	4
Rice University	56,270	114	5	61,665	108	5	51,713	96	4	43,907	99	4	39,668	102	5
George Mason University	55,678	115	5	47,924	124	5	28,790	130	6	21,685	134	6	4,947	212	
Clemson University	55,108	116	5	73,608	98	4	39,974	109	5	41,275	103	5	28,210	119	5
Univ. of California - Riverside	53,971	117	5	49,398	122	5	29,531	128	6	40,608	105	5	31,354	110	5
Univ. of Alabama - Huntsville	53,893	118	5	47,742	125	5	37,170	113	5	36,913	113	5	42,362	98	4
U. of Maryland - Baltimore Cty.	53,867	119	5	45,260	128	6	23,077	140	6	10,399	185		8,226	174	
Florida International University	53,647	120	5	57,754	116	5	23,273	139	6	18,704	144	6			
Auburn University	52,911	121	5	59,746	112	5	39,965	110	5	47,456	95	4	29,020	114	5
Univ. of Connecticut - Storrs	51,887	122	5	73,833	97	4	35,246	117	5	35,511	115	5	37,085	105	5
University of North Dakota	49,215	123	5	43,815	133	6	20,109	151		28,494	123	5	28,561	117	5
Rensselaer Polytechnic Inst.	48,216	124	5	44,179	131	6	33,680	122	5	37,781	111	5	45,246	94	4
University of Maine - Orono	47,280	125	5	44,013	132	6	28,304	131	6	19,473	139	6	17,945	136	6
Group 6 in 2009	2009	Rk	Grp	2004	Rk	Grp	1999	Rk	Grp	1994	Rk	Grp	1990	Rk	Grp
North Dakota State University	40.014														
	43,614	126	6	54,695	117	5	18,179	158		18,603	145	6	12,729	157	
San Diego State University	43,614	126 127	6	54,695 36,273	117 142	5 6	18,179 29,132	158 129	6	18,603 20,982	145 136	6 6	12,729 29,055	157 113	5
San Diego State University New Jersey Institute of Tech.	·								6 5						5
,	42,736	127	6	36,273	142	6	29,132	129		20,982	136	6	29,055	113	5
New Jersey Institute of Tech.	42,736 42,656	127 128	6 6	36,273 37,361	142 140	6 6	29,132 31,205	129 125	5	20,982 21,502	136 135	6	29,055 5,417	113 205	
New Jersey Institute of Tech. University of Idaho	42,736 42,656 42,207	127 128 129	6 6 6	36,273 37,361 58,540	142 140 115	6 6 5	29,132 31,205 35,836	129 125 116	5	20,982 21,502 28,367	136 135 124	6 6 5	29,055 5,417 27,399	113 205 122	5
New Jersey Institute of Tech. University of Idaho Univ. of Oklahoma - Norman	42,736 42,656 42,207 41,900	127 128 129 130	6 6 6	36,273 37,361 58,540 46,894	142 140 115 126	6 6 5 6	29,132 31,205 35,836 43,379	129 125 116 106	5 5 5	20,982 21,502 28,367 30,761	136 135 124 122	6 6 5	29,055 5,417 27,399 17,068	113 205 122 139	5
New Jersey Institute of Tech. University of Idaho Univ. of Oklahoma - Norman Univ. of Southern Mississippi	42,736 42,656 42,207 41,900 41,517	127 128 129 130 131	6 6 6 6	36,273 37,361 58,540 46,894 38,663	142 140 115 126 137	6 6 5 6	29,132 31,205 35,836 43,379 20,861	129 125 116 106 148	5 5 5 6	20,982 21,502 28,367 30,761 12,470	136 135 124 122 171	6 6 5 5	29,055 5,417 27,399 17,068 7,824	113 205 122 139 178	5
New Jersey Institute of Tech. University of Idaho Univ. of Oklahoma - Norman Univ. of Southern Mississippi Brandeis University	42,736 42,656 42,207 41,900 41,517 40,532	127 128 129 130 131 132	6 6 6 6 6	36,273 37,361 58,540 46,894 38,663 45,855	142 140 115 126 137 127	6 6 5 6 6	29,132 31,205 35,836 43,379 20,861 43,458	129 125 116 106 148 105	5 5 5 6 5	20,982 21,502 28,367 30,761 12,470 36,917	136 135 124 122 171 112	6 6 5 5	29,055 5,417 27,399 17,068 7,824 37,331	113 205 122 139 178 104	5 6 5
New Jersey Institute of Tech. University of Idaho Univ. of Oklahoma - Norman Univ. of Southern Mississippi Brandeis University Univ. of Houston - Univ. Park	42,736 42,656 42,207 41,900 41,517 40,532 40,020	127 128 129 130 131 132 133	6 6 6 6 6	36,273 37,361 58,540 46,894 38,663 45,855 41,548	142 140 115 126 137 127 135	6 6 5 6 6 6	29,132 31,205 35,836 43,379 20,861 43,458 30,194	129 125 116 106 148 105 127	5 5 5 6 5 6	20,982 21,502 28,367 30,761 12,470 36,917 39,046	136 135 124 122 171 112 109	6 6 5 5 5	29,055 5,417 27,399 17,068 7,824 37,331 34,864	113 205 122 139 178 104 108	5 6 5 5
New Jersey Institute of Tech. University of Idaho Univ. of Oklahoma - Norman Univ. of Southern Mississippi Brandeis University Univ. of Houston - Univ. Park Oklahoma St. Univ Stillwater	42,736 42,656 42,207 41,900 41,517 40,532 40,020 39,517	127 128 129 130 131 132 133 134	6 6 6 6 6 6	36,273 37,361 58,540 46,894 38,663 45,855 41,548 52,248	142 140 115 126 137 127 135 120	6 6 5 6 6 6 5	29,132 31,205 35,836 43,379 20,861 43,458 30,194 34,235	129 125 116 106 148 105 127 121	5 5 5 6 5 6	20,982 21,502 28,367 30,761 12,470 36,917 39,046 34,959	136 135 124 122 171 112 109 117	6 6 5 5 5	29,055 5,417 27,399 17,068 7,824 37,331 34,864 35,199	113 205 122 139 178 104 108	5 6 5 5 5
New Jersey Institute of Tech. University of Idaho Univ. of Oklahoma - Norman Univ. of Southern Mississippi Brandeis University Univ. of Houston - Univ. Park Oklahoma St. Univ Stillwater Univ. of Mississippi - Oxford	42,736 42,656 42,207 41,900 41,517 40,532 40,020 39,517 38,836	127 128 129 130 131 132 133 134 135	6 6 6 6 6 6 6	36,273 37,361 58,540 46,894 38,663 45,855 41,548 52,248 39,637	142 140 115 126 137 127 135 120 136	6 6 5 6 6 6 5	29,132 31,205 35,836 43,379 20,861 43,458 30,194 34,235 15,477	129 125 116 106 148 105 127 121 170	5 5 5 6 5 6	20,982 21,502 28,367 30,761 12,470 36,917 39,046 34,959 14,897	136 135 124 122 171 112 109 117 161	6 6 5 5 5	29,055 5,417 27,399 17,068 7,824 37,331 34,864 35,199 16,336	113 205 122 139 178 104 108 106 140	5 6 5 5 5
New Jersey Institute of Tech. University of Idaho Univ. of Oklahoma - Norman Univ. of Southern Mississippi Brandeis University Univ. of Houston - Univ. Park Oklahoma St. Univ Stillwater Univ. of Mississippi - Oxford U.S. Air Force Academy	42,736 42,656 42,207 41,900 41,517 40,532 40,020 39,517 38,836 38,795	127 128 129 130 131 132 133 134 135 136	6 6 6 6 6 6 6 6	36,273 37,361 58,540 46,894 38,663 45,855 41,548 52,248 39,637 18,972	142 140 115 126 137 127 135 120 136 173	6 6 5 6 6 6 5 6	29,132 31,205 35,836 43,379 20,861 43,458 30,194 34,235 15,477 5,463	129 125 116 106 148 105 127 121 170 227	5 5 5 6 5 6 5	20,982 21,502 28,367 30,761 12,470 36,917 39,046 34,959 14,897 4,055	136 135 124 122 171 112 109 117 161 246	6 6 5 5 5 5 5	29,055 5,417 27,399 17,068 7,824 37,331 34,864 35,199 16,336 1,551	113 205 122 139 178 104 108 106 140 289	5 6 5 5 5 6
New Jersey Institute of Tech. University of Idaho Univ. of Oklahoma - Norman Univ. of Southern Mississippi Brandeis University Univ. of Houston - Univ. Park Oklahoma St. Univ Stillwater Univ. of Mississippi - Oxford U.S. Air Force Academy Northeastern University	42,736 42,656 42,207 41,900 41,517 40,532 40,020 39,517 38,836 38,795 38,178	127 128 129 130 131 132 133 134 135 136	6 6 6 6 6 6 6 6 6	36,273 37,361 58,540 46,894 38,663 45,855 41,548 52,248 39,637 18,972 36,956	142 140 115 126 137 127 135 120 136 173 141	6 6 5 6 6 5 6	29,132 31,205 35,836 43,379 20,861 43,458 30,194 34,235 15,477 5,463 33,640	129 125 116 106 148 105 127 121 170 227 123	5 5 5 6 5 6 5	20,982 21,502 28,367 30,761 12,470 36,917 39,046 34,959 14,897 4,055 27,428	136 135 124 122 171 112 109 117 161 246 128	6 6 5 5 5 5 5	29,055 5,417 27,399 17,068 7,824 37,331 34,864 35,199 16,336 1,551 20,267	113 205 122 139 178 104 108 106 140 289 133	5 6 5 5 5 6
New Jersey Institute of Tech. University of Idaho Univ. of Oklahoma - Norman Univ. of Southern Mississippi Brandeis University Univ. of Houston - Univ. Park Oklahoma St. Univ Stillwater Univ. of Mississippi - Oxford U.S. Air Force Academy Northeastern University Jackson State University	42,736 42,656 42,207 41,900 41,517 40,532 40,020 39,517 38,836 38,795 38,178 37,321	127 128 129 130 131 132 133 134 135 136 137	6 6 6 6 6 6 6 6 6 6	36,273 37,361 58,540 46,894 38,663 45,855 41,548 52,248 39,637 18,972 36,956 34,723	142 140 115 126 137 127 135 120 136 173 141	6 6 5 6 6 6 6 6 6 6	29,132 31,205 35,836 43,379 20,861 43,458 30,194 34,235 15,477 5,463 33,640 11,705	129 125 116 106 148 105 127 121 170 227 123 187	5 5 5 6 5 6 5 5	20,982 21,502 28,367 30,761 12,470 36,917 39,046 34,959 14,897 4,055 27,428 7,217	136 135 124 122 171 112 109 117 161 246 128 211	6 6 5 5 5 5 5	29,055 5,417 27,399 17,068 7,824 37,331 34,864 35,199 16,336 1,551 20,267 6,707	113 205 122 139 178 104 108 106 140 289 133 193	5 6 5 5 5 6
New Jersey Institute of Tech. University of Idaho Univ. of Oklahoma - Norman Univ. of Southern Mississippi Brandeis University Univ. of Houston - Univ. Park Oklahoma St. Univ Stillwater Univ. of Mississippi - Oxford U.S. Air Force Academy Northeastern University Jackson State University Univ. of Montana - Missoula	42,736 42,656 42,207 41,900 41,517 40,532 40,020 39,517 38,836 38,795 38,178 37,321 36,631	127 128 129 130 131 132 133 134 135 136 137 138	6 6 6 6 6 6 6 6	36,273 37,361 58,540 46,894 38,663 45,855 41,548 52,248 39,637 18,972 36,956 34,723 41,560	142 140 115 126 137 127 135 120 136 173 141 144 134	6 6 5 6 6 6 6 6 6 6 6 6	29,132 31,205 35,836 43,379 20,861 43,458 30,194 34,235 15,477 5,463 33,640 11,705 21,604	129 125 116 106 148 105 127 121 170 227 123 187 144	5 5 6 5 6 5 6	20,982 21,502 28,367 30,761 12,470 36,917 39,046 34,959 14,897 4,055 27,428 7,217 14,837	136 135 124 122 171 112 109 117 161 246 128 211 162	6 6 5 5 5 5 6	29,055 5,417 27,399 17,068 7,824 37,331 34,864 35,199 16,336 1,551 20,267 6,707 6,879	113 205 122 139 178 104 108 106 140 289 133 193	5 6 5 5 6 6
New Jersey Institute of Tech. University of Idaho Univ. of Oklahoma - Norman Univ. of Southern Mississippi Brandeis University Univ. of Houston - Univ. Park Oklahoma St. Univ Stillwater Univ. of Mississippi - Oxford U.S. Air Force Academy Northeastern University Jackson State University Univ. of Montana - Missoula Saint Louis Univ St. Louis	42,736 42,656 42,207 41,900 41,517 40,532 40,020 39,517 38,836 38,795 38,178 37,321 36,631 33,644	127 128 129 130 131 132 133 134 135 136 137 138 139 140	6 6 6 6 6 6 6 6	36,273 37,361 58,540 46,894 38,663 45,855 41,548 52,248 39,637 18,972 36,956 34,723 41,560 44,587	142 140 115 126 137 127 135 120 136 173 141 144 134	6 6 5 6 6 6 6 6 6 6 6 6	29,132 31,205 35,836 43,379 20,861 43,458 30,194 34,235 15,477 5,463 33,640 11,705 21,604 35,037	129 125 116 106 148 105 127 121 170 227 123 187 144 119	5 5 5 6 5 6 5 5 6 5	20,982 21,502 28,367 30,761 12,470 36,917 39,046 34,959 14,897 4,055 27,428 7,217 14,837 30,991	136 135 124 122 171 112 109 117 161 246 128 211 162 121	6 6 5 5 5 5 5 5	29,055 5,417 27,399 17,068 7,824 37,331 34,864 35,199 16,336 1,551 20,267 6,707 6,879 27,982	113 205 122 139 178 104 108 106 140 289 133 193 191 120	5 6 5 5 6 6 5
New Jersey Institute of Tech. University of Idaho Univ. of Oklahoma - Norman Univ. of Southern Mississippi Brandeis University Univ. of Houston - Univ. Park Oklahoma St. Univ Stillwater Univ. of Mississippi - Oxford U.S. Air Force Academy Northeastern University Jackson State University Univ. of Montana - Missoula Saint Louis Univ St. Louis Univ. of Arkansas - Fayetteville	42,736 42,656 42,207 41,900 41,517 40,532 40,020 39,517 38,836 38,795 38,178 37,321 36,631 33,644 31,597	127 128 129 130 131 132 133 134 135 136 137 138 139 140	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	36,273 37,361 58,540 46,894 38,663 45,855 41,548 52,248 39,637 18,972 36,956 34,723 41,560 44,587 37,473	142 140 115 126 137 127 135 120 136 173 141 144 134 130	6 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	29,132 31,205 35,836 43,379 20,861 43,458 30,194 34,235 15,477 5,463 33,640 11,705 21,604 35,037 23,412	129 125 116 106 148 105 127 121 170 227 123 187 144 119	5 5 5 6 5 6 5 5 6 5	20,982 21,502 28,367 30,761 12,470 36,917 39,046 34,959 14,897 4,055 27,428 7,217 14,837 30,991 27,433	136 135 124 122 171 112 109 117 161 246 128 211 162 121 127	6 6 5 5 5 5 5 5	29,055 5,417 27,399 17,068 7,824 37,331 34,864 35,199 16,336 1,551 20,267 6,707 6,879 27,982 21,485	113 205 122 139 178 104 108 106 140 289 133 193 191 120 131	5 6 5 5 6 6 5 6
New Jersey Institute of Tech. University of Idaho Univ. of Oklahoma - Norman Univ. of Southern Mississippi Brandeis University Univ. of Houston - Univ. Park Oklahoma St. Univ Stillwater Univ. of Mississippi - Oxford U.S. Air Force Academy Northeastern University Jackson State University Univ. of Montana - Missoula Saint Louis Univ St. Louis Univ. of Arkansas - Fayetteville Univ. of Nevada - Las Vegas	42,736 42,656 42,207 41,900 41,517 40,532 40,020 39,517 38,836 38,795 38,178 37,321 36,631 33,644 31,597 31,270	127 128 129 130 131 132 133 134 135 136 137 138 139 140 141	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	36,273 37,361 58,540 46,894 38,663 45,855 41,548 52,248 39,637 18,972 36,956 34,723 41,560 44,587 37,473 33,767	142 140 115 126 137 127 135 120 136 173 141 144 134 139 145	6 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	29,132 31,205 35,836 43,379 20,861 43,458 30,194 34,235 15,477 5,463 33,640 11,705 21,604 35,037 23,412 15,136	129 125 116 106 148 105 127 121 170 227 123 187 144 119 138 172	5 5 5 6 5 6 5 6 5 6	20,982 21,502 28,367 30,761 12,470 36,917 39,046 34,959 14,897 4,055 27,428 7,217 14,837 30,991 27,433 16,321	136 135 124 122 171 112 109 117 161 246 128 211 162 121 127 152	6 6 5 5 5 5 5 6 6 5 6	29,055 5,417 27,399 17,068 7,824 37,331 34,864 35,199 16,336 1,551 20,267 6,707 6,879 27,982 21,485 26,324	113 205 122 139 178 104 108 106 140 289 133 193 191 120 131 123	5 6 5 5 6 6 5 6 5
New Jersey Institute of Tech. University of Idaho Univ. of Oklahoma - Norman Univ. of Southern Mississippi Brandeis University Univ. of Houston - Univ. Park Oklahoma St. Univ Stillwater Univ. of Mississippi - Oxford U.S. Air Force Academy Northeastern University Jackson State University Univ. of Montana - Missoula Saint Louis Univ St. Louis Univ. of Arkansas - Fayetteville Univ. of Nevada - Las Vegas Howard University	42,736 42,656 42,207 41,900 41,517 40,532 40,020 39,517 38,836 38,795 38,178 37,321 36,631 33,644 31,597 31,270 30,599	127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	36,273 37,361 58,540 46,894 38,663 45,855 41,548 52,248 39,637 18,972 36,956 34,723 41,560 44,587 37,473 33,767 48,320	142 140 115 126 137 127 135 120 136 173 141 144 134 139 145 123	6 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	29,132 31,205 35,836 43,379 20,861 43,458 30,194 34,235 15,477 5,463 33,640 11,705 21,604 35,037 23,412 15,136 31,989	129 125 116 106 148 105 127 121 170 227 123 187 144 119 138 172 124	5 5 5 6 5 6 5 6 5 6 5 6 5	20,982 21,502 28,367 30,761 12,470 36,917 39,046 34,959 14,897 4,055 27,428 7,217 14,837 30,991 27,433 16,321 25,990	136 135 124 122 171 112 109 117 161 246 128 211 162 121 152 131	6 6 5 5 5 5 5 6 6 6	29,055 5,417 27,399 17,068 7,824 37,331 34,864 35,199 16,336 1,551 20,267 6,707 6,879 27,982 21,485 26,324 25,921	113 205 122 139 178 104 108 106 140 289 133 191 120 131 123 125	5 6 5 5 6 6 5 5 5 5
New Jersey Institute of Tech. University of Idaho Univ. of Oklahoma - Norman Univ. of Southern Mississippi Brandeis University Univ. of Houston - Univ. Park Oklahoma St. Univ Stillwater Univ. of Mississippi - Oxford U.S. Air Force Academy Northeastern University Jackson State University Univ. of Montana - Missoula Saint Louis Univ St. Louis Univ. of Arkansas - Fayetteville Univ. of Nevada - Las Vegas Howard University University of Wyoming	42,736 42,656 42,207 41,900 41,517 40,532 40,020 39,517 38,836 38,795 38,178 37,321 36,631 33,644 31,597 31,270 30,599 29,479	127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	36,273 37,361 58,540 46,894 38,663 45,855 41,548 52,248 39,637 18,972 36,956 34,723 41,560 44,587 37,473 33,767 48,320 27,948	142 140 115 126 137 127 135 120 136 173 141 144 134 139 145 123 152	6 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	29,132 31,205 35,836 43,379 20,861 43,458 30,194 34,235 15,477 5,463 33,640 11,705 21,604 35,037 23,412 15,136 31,989 28,224	129 125 116 106 148 105 127 121 170 227 123 187 144 119 138 172 124 132	5 5 5 6 5 6 5 6 5 6 5 6	20,982 21,502 28,367 30,761 12,470 36,917 39,046 34,959 14,897 4,055 27,428 7,217 14,837 30,991 27,433 16,321 25,990 25,851	136 135 124 122 171 112 109 117 161 246 128 211 162 121 152 131 132	6 6 5 5 5 5 5 6 6 6	29,055 5,417 27,399 17,068 7,824 37,331 34,864 35,199 16,336 1,551 20,267 6,707 6,879 27,982 21,485 26,324 25,921 24,215	113 205 122 139 178 104 106 140 289 133 191 120 131 123 125 127	5 6 5 5 6 6 5 5 5 5
New Jersey Institute of Tech. University of Idaho Univ. of Oklahoma - Norman Univ. of Southern Mississippi Brandeis University Univ. of Houston - Univ. Park Oklahoma St. Univ Stillwater Univ. of Mississippi - Oxford U.S. Air Force Academy Northeastern University Jackson State University Univ. of Montana - Missoula Saint Louis Univ St. Louis Univ. of Arkansas - Fayetteville Univ. of Nevada - Las Vegas Howard University University of Wyoming University of Texas - El Paso	42,736 42,656 42,207 41,900 41,517 40,532 40,020 39,517 38,836 38,795 38,178 37,321 36,631 33,644 31,597 31,270 30,599 29,479 29,386	127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	36,273 37,361 58,540 46,894 38,663 45,855 41,548 52,248 39,637 18,972 36,956 34,723 41,560 44,587 37,473 33,767 48,320 27,948 20,371	142 140 115 126 137 127 135 120 136 173 141 144 130 139 145 123 152 169	6 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	29,132 31,205 35,836 43,379 20,861 43,458 30,194 34,235 15,477 5,463 33,640 11,705 21,604 35,037 23,412 15,136 31,989 28,224 27,017	129 125 116 106 148 105 127 121 170 227 123 187 144 119 138 172 124 132 133	5 5 5 6 5 6 5 6 5 6 5 6	20,982 21,502 28,367 30,761 12,470 36,917 39,046 34,959 14,897 4,055 27,428 7,217 14,837 30,991 27,433 16,321 25,990 25,851 15,538	136 135 124 122 171 112 109 117 161 246 128 211 162 121 127 152 131 132 156	6 6 5 5 5 5 5 6 6 6	29,055 5,417 27,399 17,068 7,824 37,331 34,864 35,199 16,336 1,551 20,267 6,707 6,879 27,982 21,485 26,324 25,921 24,215 10,813	113 205 122 139 178 104 108 106 140 289 133 191 120 131 123 125 127 165	5 6 5 5 6 6 5 5 5 5
New Jersey Institute of Tech. University of Idaho Univ. of Oklahoma - Norman Univ. of Southern Mississippi Brandeis University Univ. of Houston - Univ. Park Oklahoma St. Univ Stillwater Univ. of Mississippi - Oxford U.S. Air Force Academy Northeastern University Jackson State University Univ. of Montana - Missoula Saint Louis Univ St. Louis Univ. of Arkansas - Fayetteville Univ. of Nevada - Las Vegas Howard University University of Wyoming University of Texas - El Paso University of Toledo	42,736 42,656 42,207 41,900 41,517 40,532 40,020 39,517 38,836 38,795 38,178 37,321 36,631 33,644 31,597 31,270 30,599 29,479 29,386 29,328	127 128 129 130 131 132 133 134 135 136 137 138 140 141 142 143 144 145 146	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	36,273 37,361 58,540 46,894 38,663 45,855 41,548 52,248 39,637 18,972 36,956 34,723 41,560 44,587 37,473 33,767 48,320 27,948 20,371 15,946	142 140 115 126 137 127 135 120 136 173 141 144 134 139 145 123 152 169 189	6 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	29,132 31,205 35,836 43,379 20,861 43,458 30,194 34,235 15,477 5,463 33,640 11,705 21,604 35,037 23,412 15,136 31,989 28,224 27,017 8,392	129 125 116 106 148 105 127 121 170 227 123 187 144 119 138 172 124 132 207	5 5 5 6 5 6 5 6 5 6 5 6	20,982 21,502 28,367 30,761 12,470 36,917 39,046 34,959 14,897 4,055 27,428 7,217 14,837 30,991 27,433 16,321 25,990 25,851 15,538 5,995	136 135 124 122 171 112 109 117 161 246 128 211 162 121 152 131 132 156 218	6 6 5 5 5 5 5 6 6 6	29,055 5,417 27,399 17,068 7,824 37,331 34,864 35,199 16,336 1,551 20,267 6,707 6,879 27,982 21,485 26,324 25,921 24,215 10,813 4,168	113 205 122 139 178 104 108 106 140 289 133 193 191 120 131 123 125 127 165 224	5 6 5 5 6 6 5 5 5 5
New Jersey Institute of Tech. University of Idaho Univ. of Oklahoma - Norman Univ. of Southern Mississippi Brandeis University Univ. of Houston - Univ. Park Oklahoma St. Univ Stillwater Univ. of Mississippi - Oxford U.S. Air Force Academy Northeastern University Jackson State University Univ. of Montana - Missoula Saint Louis Univ St. Louis Univ. of Arkansas - Fayetteville Univ. of Nevada - Las Vegas Howard University University of Wyoming University of Texas - El Paso University of Toledo Loma Linda University	42,736 42,656 42,207 41,900 41,517 40,532 40,020 39,517 38,836 38,795 38,178 37,321 36,631 33,644 31,597 31,270 30,599 29,479 29,386 29,328 29,114	127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	36,273 37,361 58,540 46,894 38,663 45,855 41,548 52,248 39,637 18,972 36,956 34,723 41,560 44,587 37,473 33,767 48,320 27,948 20,371 15,946 32,101	142 140 115 126 137 127 135 120 136 173 141 134 139 145 123 152 169 189 146	6 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	29,132 31,205 35,836 43,379 20,861 43,458 30,194 34,235 15,477 5,463 33,640 11,705 21,604 35,037 23,412 15,136 31,989 28,224 27,017 8,392 18,045	129 125 116 106 148 105 127 121 170 227 123 187 144 119 138 172 124 132 207 159	5 5 5 6 5 6 5 6 5 6 6 6 6 6 6 6 6 6 6 6	20,982 21,502 28,367 30,761 12,470 36,917 39,046 34,959 14,897 4,055 27,428 7,217 14,837 30,991 27,433 16,321 25,990 25,851 15,538 5,995 8,692	136 135 124 122 171 112 109 117 161 246 128 211 162 121 152 131 132 156 218 197	6 6 5 5 5 5 5 6 6 6	29,055 5,417 27,399 17,068 7,824 37,331 34,864 35,199 16,336 1,551 20,267 6,707 6,879 27,982 21,485 26,324 25,921 24,215 10,813 4,168 6,643	113 205 122 139 178 104 106 140 289 133 191 120 131 123 125 127 165 224 194	5 6 5 5 6 6 5 5 6