Ranking Departments: A Comparison of Alternative Approaches

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"In Animal Farm all animals are equal, but some are more equal than others."

—George Orwell (1946)

here are many different ways to develop rankings of Ph.D.-granting academic departments. Perhaps the most common method is reputational: we simply ask knowledgeable scholars in the discipline to provide their rankings and aggregate these in some fashion. Other ways involve more "objective indicators." But, of course, departments have multiple attributes, e.g., we might be interested in how good a department is as a place to get a Ph.D., or we might be interested simply in the research record of its faculty, etc.¹ Thus, we might want to use different indicators to measure different aspects of the department.

In this article we look at U.S. Ph.D.producing departments, focusing, on the one hand, on departmental research excellence as judged by the total and mean

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per capita citation counts of present faculty, and, on the other hand, on departmental success in Ph.D. production as judged by the number and proportion of its Ph.D.s who end up among the most highly cited U.S. political scientists. Citation counts to the work of present departmental faculty are a measure of present departmental visibility, and we may also think of them as measuring department input useful in turning out first-rate scholars; while citation counts (or citation-based ranking measures) to the work produced by a department's Ph.D. graduates are a measure of past departmental output success. Both types of measures can be informative.

We look at the correlation between these and other indicators and the ranking of political science departments offered by U.S. News and World Report. We have examined multivariate regression models that can be used to predict departmental prestige rankings circa 2005. While we considered many different models, our best fitting model is a remarkably simple one with only three independent variables: the number of faculty in a department who are among the 400 most highly cited U.S.-based scholars in the discipline, the department's success in placing its own Ph.D. students at other graduate departments, and its success in producing students who become highly cited scholars in the profession.

This is the third and final article in a series. In the first essay (Masuoka, Grofman, and Feld 2007a), we focused on using citation data to rank individual scholars, creating a list that we (following Klingemann, Grofman, and Campagna 1989) refer to as the "Political Science 400." In the second essay (Masuoka, Grofman, and Feld 2007b), we focused on exchange patterns within departments, e.g., the number and proportion of a given department's Ph.D.s it places with/receives from each of a set of other departments. In this essay, we incorporate the individual-level citation data presented in the Political Science 400 paper and the departmental Ph.D.

production and placement data from the second paper to rank departments using a number of different indicators.

Ranking Departments in Political Science: Reputation, Productivity, and Citations

Departmental rankings have been of sustained interest to political scientists. To be sure, there are various methods to rank departments, all of which provide a different perspective on the elite departments in the profession. These methods can be generally classified into two types: subjective and objective. Subjective measures rely on perceptions of reputation while objective measures have largely focused on departments' cumulative scholarly production.

Reputational rankings have the longest standing tradition in political science. Early studies such as Kenniston (1957), Cartter (1966), and Somit and Tanenhaus (1967) all relied on surveys of either department chairs or APSA members to measure the reputations of departments. Somit and Tanenhaus (1964, 28) posit "there is no infallible method of objectively quantifying the actual quality of schools. But where one deals with qualitative assessments, the relationship of fact to reality is often less important than the existence of the belief and the behavior that results from its acceptance." Contemporary studies conducted by both the National Research Council (1995) and U.S News and World Report (2005) also in whole or part base their rankings on reputation.

Increasingly, scholars are using more objective measures of quality, particularly in terms of publication output or citation data. Most objective studies such as Robey (1979), Morgan and Fitzgerald (1977), McCormick and Bernick (1982), Ballard and Mitchell (1998), and McCormick and Rice (2001) focus on cumulative article publications of departmental faculty. These studies try to control for quality by limiting their count to articles published in top journals such as the

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Table 1
Departments that Produce the Highest Number of Members of the Political Science 400: Overall and by Decade

Department Ph.D.	Overall Rank	Before 1950	1950–1959	1960–1969	1970–1979	1980–1989	1990–1999
Harvard	1 (56)	1 (3)	1 (10)	1 (20)	2 (16)	2 (6)	2 (1)
Yale	2 (46)	4 (1)	4 (4)	2 (16)	1 (20)	3 (5)	
UC Berkeley	3 (30)		8 (1)	3 (10)	4 (10)	1 (8)	2 (1)
Michigan	4 (27)	4 (1)		5 (7)	3 (14)	5 (4)	2 (1)
Chicago	5 (25)	2 (2)	4 (4)	4 (9)	5 (8)	7 (3)	
Princeton	6 (19)	4 (1)	2 (7)	8 (4)	10 (5)	10 (2)	
Columbia	7 (17)	2 (2)	3 (5)	5 (7)	16 (2)	16 (1)	
Stanford	8 (16)			8 (4)	7 (7)	3 (5)	
UNC Chapel Hill	9 (12)			8 (4)	5 (8)		
Wisconsin	10 (11)		6 (2)	11 (3)	10 (5)	16 (1)	
MIT	10 (11)		` '	13 (2)	9 (6)	7 (3)	
Northwestern	12 (9)			5 (7)	16 (2)	, ,	
Rochester	12 (9)			,	7 (7)	10 (2)	
Minnesota	14 (8)		8 (1)		10 (5)	10 (2)	
Cornell	15 (6)		6 (2)	18 (1)	24 (1)	10 (2)	
UCLA	15 (6)		8 (1)	11 (3)	24 (1)	16 (1)	
Duke	15 (6)		8 (1)	13 (2)	24 (1)	,	1 (2)
U of Iowa	15 (6)		. ,	20 (1)	13 (4)	16 (1)	,
Washington Univ.	15 (6)			21 (1)	16 (2)	7 (3)	
Cal Tech	15 (6)			,	24 (1)	5 (4)	2 (1)
U of Illinois	, ,				,	,	,
Urbana-Champaign	21 (5)		8 (1)	19 (1)	15 (3)		
Oxford	21 (5)		,	13 (2)	16 (2)	16 (1)	
Ohio State	23 (4)		8 (1)	,	24 (1)	10 (2)	
Syracuse	23 (4)		,		13 (4)	,	
Michigan State	23 (4)				16 (2)	10 (2)	
NYU	27 (3)		8 (1)	13 (2)	,	,	
U of Penn	27 (3)		8 (1)	13 (2)			
U of Paris	29 (2)		8 (1)	- ()	24 (1)		
Johns Hopkins	34 (1)		8 (1)				
Penn State	34 (1)		8 (1)				
Radcliffe	34 (1)		8 (1)				
U of Oregon	34 (1)		8 (1)				
UC San Diego	34 (1)		- (-)				2 (1)

*Numbers outside the parentheses reflect the ranking. Numbers inside the parentheses reflect the number of faculty in each cohort.

APSR and in regional journals. Rice, McCormick, and Bergmann (2002) also ranked departments by their faculty's cumulative book production and find that the type of publication makes a difference in the rankings. Finally, studies such as Klingemann (1986), Klingemann, Grofman, and Campagna (1989), and Miller, Tien, and Peebler (1996) have used cumulative departmental faculty citation counts as another method to objectively rank departments.

A number of studies also examine the relationship between subjective and objective indicators of prestige. Studies such as Lowry and Silver (1996) and Katz and Eagles (1996) examine how structural features such as departmental size and funding influence reputation rankings. These studies suggest that there are other possible factors that can

influence departments' reputations. However, studies conducted by Jackman and Silver (1996) and Garand and Grady (1999), which compare the relationship between cumulative publications and reputation, find that the two do not highly correlate.

Using Citation Counts to Rank Departments

We show in Table 1 (similar to Table 3 in Klingemann, Grofman, and Campagna 1989) the ranking of the top departments in each of six periods (before 1950, 1950–1959, 1960–1969, 1970–1979, 1980–1989, 1990–1999) based on how many members of the current Political Science 400 they *produced* during that time period. We included a department in

the table if it was among the top 20 departments in any of these time periods.

When we compare Table 1 with Table 3 in Klingemann, Grofman, and Campagna (1989), which covers the four decades of the 1940s, 1950s, 1960s, and 1970s based on the 1980-1985 Political Science 400 list, we see that the departments at Harvard, Yale, Chicago, Michigan, Berkeley, Princeton, and Columbia continue to be among the top producers overall of the most highly cited political scientists, and that those at Stanford and the University of North Carolina, Chapel Hill have moved up in ranking. Comparing across the seven decades sees more evidence of change. Generally the departments at the top 10 schools maintain their high status over the seven periods, but we do see a dip for Columbia's. Current gains by the departments at Cal

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Table 2
U.S. Departments that Produce the Highest Proportion of Members of the Political Science 400
Relative to their Total Production of Ph.D.s

Normalized Rank	Department	# in PS 400	Share of PS 400	Total Production 1966–2002	Share of Production	Index
1	Cal Tech	6	1.5%	21	0.1%	18.32
2	Yale	46	11.5%	440	1.7%	6.70
3	Harvard	56	14.0%	874	3.4%	4.11
4	Rochester	9	2.3%	153	0.6%	3.77
5	Washington Univ.	6	1.5%	120	0.5%	3.21
6	Stanford	16	4.0%	330	1.3%	3.11
7	Michigan	27	6.8%	580	2.3%	2.98
8	UC Berkeley	30	7.5%	694	2.7%	2.77
9	Princeton	19	4.8%	459	1.8%	2.65
10	Chicago	25	6.3%	642	2.5%	2.50
11	U of lowa	6	1.5%	168	0.7%	2.29
12	UNC Chapel Hill	12	3.0%	368	1.4%	2.09
13	Northwestern	9	2.3%	285	1.1%	2.02
14	U of Delaware	1	0.3%	34	0.1%	1.89
15	Wisconsin	11	2.8%	411	1.6%	1.72
16	Minnesota	8	2.0%	307	1.2%	1.67
16	Duke	6	1.5%	231	0.9%	1.67
18	MIT	11	2.8%	432	1.7%	1.63
19	U of Illinois Urbana-Champaign	5	1.3%	230	0.9%	1.39
19	Wisconsin-Milwaukee	1	0.3%	46	0.2%	1.39

Tech, MIT, Rochester, Washington University-St Louis, UC San Diego, and Duke are also worth noting since, especially in the last several decades, each has produced a number of scholars who make it to the top of the profession, and thus each would rise drastically in rankings based on production of recent Ph.D.s who have gone on to distinction.

Because it might be thought more likely that a department that produces a large number of Ph.D.s will produce a large number of highly cited Ph.D.s, for the cumulative citation counts Table 2 (paralleling Table 4 in Klingemann, Grofman, and Campagna 1989) normalizes Table 1's data by dividing through by the total number of Ph.D.s produced by that department over the period 1966-2001 (we also refer to the Schmidt and Chingos [2007] in this edition of PS).² For simplicity, and to avoid problems with ratios based on small numbers, we limit ourselves to overall rankings. There are a number of significant changes when we consider success in turning out stars of the profession relative to a department's total Ph.D. production. With the exception of Yale and Stanford's departments, all schools' departments which were at the very top move downward when we normalize the rankings, and some schools' departments significantly so. For example, Columbia's, which ranked seven in Table 1, drops to 25 in the normalized

ranking. It is apparent from Table 2 that some smaller departments, such as those at Cal Tech, Rochester, and Washington University-St Louis, are better at producing high-quality Ph.D.s. relative to their total production of Ph.D.s than are some departments with larger Ph.D. production and more highly regarded Ph.D. programs.

While Table 2 ranks departments based on a measure of the quality of their Ph.D. graduates, Table 3 ranks departments based on their faculty's total cumulative citations over the period 1960–2005 to their present (circa 2002) faculty (paralleling Table 2 in Klingemann 1986, 656), and Table 4 ranks departments by the number of their faculty (circa 2002) that are among the Political Science 400. For these tables we have not bothered to disaggregate by cohort or decade. But it appears to us that the set of emeriti who are still listed on mastheads, especially at more prestigious institutions, are those who are among the more famous in the discipline. Thus, which emeriti count can affect department ratings.³

Comparing the listing of top-ranked departments in these tables to each other and to the departmental rankings based on the *production* of highly cited Ph.D.s (Table 1), we see that the expected departments (e.g., those at Harvard, Yale, Princeton, etc.) consistently rank in the top 10 regardless of whether we consider

the production of present faculty in the Political Science 400, total faculty citations, or production of Ph.D.s who go on to become members of the Political Science 400. However, perhaps the most striking feature of Table 3, when we look at total cumulative citations, is not the high ranking of the usual suspects as found by Klingemann, Grofman, and Campagna (1989), but the prominence of the departments at UC Berkeley, UCLA, and UC San Diego, as well as the high rankings of departments such as those at Duke, Cornell, and Indiana. While again most of the usual suspects are highly ranked in Table 4, we also see the same remarkable prominence of departments at University of California institutions, now in terms of total faculty who are in the Political Science 400.4 For this table, we also call attention to the high rankings of the departments at Ohio State, MIT, the University of Washington, and Duke.

But, of course, *ceteris paribus*, we might expect to see large departments ranking higher in total citation counts and in numbers of highly cited faculty than those with fewer political science faculty. To correct for this, we have also provided in Tables 3 and 4 rankings normalized by departmental size in a way similar to what we have done in Table 2 to control for size of Ph.D. production. When we normalize the citation numbers to account for size of department, the rankings in Tables 3 and 4 can shift

Table 3
Ranking Departments Based on the Total Cumulative Citations over the Period 1960–2005 to the work of their Present (circa 2002) Faculty and by Citations Per Capita

Department	Rank	Total Citations	Normalized Rank	Total Faculty	Cites per Faculty
Harvard	1	41,584	2	54	770.07
Stanford	2	33,648	1	43	782.51
Yale	3	30,363	3	52	583.90
Michigan	4	28,131	4	51	551.59
Columbia	5	25,486	12	67	380.39
UCLA	6	24,744	11	65	380.68
UC Berkeley	7	21,465	15	60	357.75
UC San Diego	8	16,401	6	37	443.27
Princeton	9	15,758	14	44	358.14
Duke	10	15,704	9	40	392.60
Cornell	11	14,778	5	31	476.71
Indiana	12	14,193	20	50	283.86
Ohio State	13	12,928	21	48	269.33
Univ. of Maryland	14	11,673	28	52	224.48
NYU	15	11,362	16	33	344.30
UNC Chapel Hill	16	10,821	33	56	193.23
UC Irvine	17	10,512	13	29	362.48
Northwestern	18	10,038	23	40	250.95
Univ. of Washington	19	9,605	27	42	228.69
Wisconsin	20	9,534	32	48	198.63
Michigan State	21	8,948	37	51	175.45
MIT	22	8,787	19	28	313.82
UT Austin	23	8,292	29	39	212.62
Chicago	24	8,140	22	32	254.38
Johns Hopkins	25	7,327	18	23	318.57
Univ. of Iowa	33	6,342	25	27	234.89
CUNY	36	5,977	8	15	398.47
SUNY Stony Brook	39	5,675	24	24	236.46
Rochester	42	5,480	17	17	322.35
New School for Social					
Research	53	4,307	10	11	391.55
Cal Tech	72	2,453	7	6	408.83

considerably. For example, once we account for the size of the faculty by looking at per capita citation rates, we see in Table 3 that faculty at smaller departments such as Cornell, UC San Diego, and UC Irvine's all have higher mean citation rates than do their colleagues in departments at larger schools, such as those at UC Berkeley and Princeton. In Table 2 we found that departments with smaller Ph.D. programs, such as Cal Tech and Rochester, are proportionally more effective at producing top scholars. In Table 4 we see that, if we control for faculty size, Cal Tech's department may have the greatest *proportion* of highly cited faculty in political science, and that other smaller departments, like MIT, UC San Diego, SUNY Stony Brook, and the New School's, also have a very high proportion of highly cited faculty-higher in per capita terms than that of a number of more "famous" departments.

Another way to rank departments is according to the subfield where they might have concentrations of highly cited scholars. Klingemann's ranking (1986) of the top 20 scholars in each field in the period 1980-1985 named Yale's as the premier department in political theory, Michigan's nonpareil in American politics, and Harvard and Columbia's first in international relations, while Harvard and Wisconsin ranked highest in the combined areas of public policy, public administration, and public law. In comparative politics, no department emerged as the clear leader. We have replicated Klingemann's analysis. As of 2002, we find Stanford's to be the top department in American government, with four of the top 20 most-cited scholars. Michigan, Northwestern, and Rochester's rank next highest: each has two of the top 20 mostcited scholars. For comparative politics, Harvard's is now overwhelmingly the

leader with six of the top 20 scholars on its faculty. Columbia, Cornell, and Yale's are the next top-ranked in this subfield. For international relations, Stanford's is the top department, while in methodology, four departments, those at Harvard, Michigan, Minnesota, and Ohio State, tie as the top-ranked. Yale's continues to be the premier department in political theory, with Columbia and UC Irvine's tied as the next highest ranked judged in terms of members of the Political Science 200 on their faculty. Finally, for public policy, public administration, and public law, Harvard, Indiana, and Michigan's departments each have two of the top 20 most-cited scholars.⁵

Predicting Departmental Prestige, 1960–2005

Somit and Tanenhaus (1963; 1964; 1967) look at four different departmental prestige rankings taken in 1925, 1957, 1963, and 1964. They find that Ph.D. production is a key determinant of prestige in the discipline's early period.6 When correlating Somit and Tanenhaus' 1963 rankings with total Ph.D.s produced between 1948-1958, we find a bivariate correlation of -0.634 (an adjusted r^2 of 0.38). If we correlate a contemporary measure of reputation, the 2005 U.S. News and World Report graduate program rankings, with total Ph.D.s produced between 1966-2001, we find a bivariate correlation of -0.572 (an adjusted r^2 of 0.33). When we use the logged value of the U.S. News and World Report rankings as our dependent variable, 7 we get an r value of -0.611(with an adjusted r^2 of 0.37).

There are other indicators besides Ph.D. production which might predict departmental prestige. Somit and Tanenhaus (1964, 36) note that "a necessary if not a sufficient condition of success is that the aspiring department be a component of a university which is itself prestigious." Klingemann (1986) looked at the relationship between departmental prestige and 1980 departmental citation counts. Reanalyzing his data we find a bivariate correlation of -0.712 (an adjusted r² of 0.494) between the ratings in a 1981 survey of departmental reputational prestige (Rudder 1983) and total citation counts of departmental faculty.8 If we correlate a contemporary measure of reputation, the 2005 U.S. News and World Report graduate program rankings, with citation counts of current departmental faculty circa 2002, we find a bivariate correlation of -0.719 (an adjusted r^2 of 0.51). When we use the logged value of the U.S. News and

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Table 4
Ranking Departments by the Number and Proportion of their Faculty that (circa 2002) are among the Political Science 400

Department	Rank	# in PS 400	Normalized Rank	Total Faculty	% in PS 400
Stanford	1	18	2	43	42%
Harvard	1	18	4	54	33%
UC Berkeley	3	17	9	60	28%
Yale	4	16	6	52	31%
Columbia	4	16	15	67	24%
Michigan	6	14	10	51	27%
Princeton	7	13	7	44	30%
UCLA	7	13	22	65	20%
UC San Diego	9	12	5	37	32%
Ohio State	9	12	13	48	25%
MIT	11	10	3	28	36%
Duke	11	10	13	40	25%
Univ. of Washington	13	9	20	42	21%
Wisconsin	13	9	24	48	19%
Indiana	13	9	26	50	18%
UNC Chapel Hill	13	9	29	56	16%
SUNY Stony Brook	17	7	8	24	29%
UC Irvine	17	7	15	29	24%
Cornell	17	7	17	31	23%
Washington Univ.	17	7	17	31	23%
Chicago	17	7	19	32	22%
NYU	17	7	20	33	21%
Northwestern	17	7	26	40	18%
Michigan State	17	7	32	51	14%
Johns Hopkins	25	6	12	23	26%
UT Austin	25	6	30	39	15%
Univ. of Maryland	25	6	37	52	12%
Cal Tech	35	3	1	6	50%
New School	35	3	10	11	27%
CUNY	35	3	22	15	20%
Vanderbilt	35	3	24	16	19%

Table 5
Bivariate Correlations with *U.S. News and World Report* and Departmental Rankings (N = 132)

	logUSNEWS	USNEWS
Department Size (# of Faculty)	594	607
Number of Faculty in PS 400	913	801
Total Dept. Cites of Current Faculty	846	719
Total Ph.D.s Produced, 1966–2001	611	572
Total Ph.D. Placements at Ph.Dgranting Dept.,		
1960–2005	845	675
Ph.D.s Produced in PS 400	776	553
# of Faculty from Big 8	803	745
# of Ph.D.s Placed in Big 8	716	473
Proportion of Placements in Ph.Dgranting Dept.	631	588
Per Capita Citations to Current Faculty	792	693
Proportion of Faculty from Big 8	614	591
Proportion of Ph.D.s hired by Big 8	674	495
Proportion of Current Faculty in PS 400	745	679
Proportion of Ph.D.s Produced in PS 400	438	361

^{&#}x27;All correlations significant at the .001 level

World Report rankings as our dependent variable, we get an r value of -0.846 (with an adjusted r^2 of 0.713). Other citation and placement variables also correlate with the (logged) *U.S. News and World Report* rankings in the expected way in a statistically significant fashion, as shown in Table 5.

For predictions of departmental prestige rankings circa 2005 as provided by U.S. News and World Report, we have generated various multivariate regressions with both input variables such as the total citation counts of departmental faculty, per capita citation counts, the number of faculty in a department who are among the Political Science 400, and the number and proportion of departmental faculty whose Ph.D.s are from top departments (here those at Berkeley, Chicago, Columbia, Harvard, Michigan, Princeton, Stanford, and Yale),9 and output variables such as Ph.D. production, and success in placing one's Ph.D. students at other graduate departments and at the most elite graduate departments. The most sensible model we arrived at, shown in Table 6, includes three variables: proportion of departmental Ph.D. graduates placed at Ph.D.-granting institutions, number of current faculty in the Political Science 400, and the number of Ph.D.s produced that are in the Political Science 400. Since we are looking at rankings, negative values indicate a positive relationship between the independent variable and departmental reputational prestige.

The equation in Table 6 has an adjusted r² of 0.85, and all variables have the correct sign, with one (number of faculty in the Political Science 400) statistically significant at the .001 level, one at the .01 level (total number of Ph.D.s produced in the Political Science 400), and one (proportion of departmental Ph.D. graduates placed at other Ph.D.granting departments) significant at the .02 level.

Discussion

First, when we rank departments in terms of citations to the work of their Ph.D. graduates or in terms of citations to the work of their present faculty, we see that the long established, and mostly East Coast, institutions continue to be very highly ranked in measures derived from our updated citation data—as they were in the 1980–1985 citation data studied by Klingemann, Grofman, and Campagna (1989). However, we also find a remarkable rise to prominence of departments at California institutions such as UC San Diego, and a further rise in the prominence of those at Berkeley,

Table 6 Predicting *U.S. News and World Report* Rankings

Log of <i>U.S. News</i> 005 Reputational Ranking dard errors in parentheses) -0.329* (.141)
(.141)
-0.068*** (0.005)
-0.010** (0.003)
1.971*** (0.019)
132
0.853

UCLA, and Stanford. Moreover, by some important criteria, two other California departments, those at Cal Tech and UC Irvine, also enter the elite ranks in political science when the data on which rank-

ings are based are normalized with respect to faculty size.

Second, when we look at departmental rankings, the public/private status of their host institutions also seems to play a role. Most of the East Coast schools among the elite institutions are private, while the West Coast schools (with the exception of Cal Tech) are public.

There have been some changes in the rankings of the most prominent departments in given subfields. Although departments like Stanford's continue to be of high prominence in multiple areas, in some subfields schools besides the "usual suspects" of long-established elite institutions have risen to prominence. For example, Ohio State's has come to be one of the major departments in American politics.

Finally, we can explain most of the variance in departmental reputational rankings with only three variables: number of present departmental faculty in the Political Science 400, proportion of past departmental Ph.D.s placed at other U.S. graduate departments, and professional success of departmental Ph.D. graduates as judged by membership in the Political Science 400. Moreover, models combining types of citation and placement data also do well in predicting *U.S. News and World Report* rankings.

Notes

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- 1. Other measures include counts of articles or books produced, perhaps weighted in some fashion by the prominence of the journal or publisher. Klingemann (1986, 53, Table 3), for example, provides a ranking of departments by total number of published articles in journals in the SSCI citation base over the period 1978–1980. We prefer to look at citations, since many articles tend to vanish from the collective disciplinary consciousness without a trace. However, we recognize that publications can provide an important measure of research activity, and an indicator that will lead citations, especially for departments with relatively junior faculty.
- 2. For overall Ph.D. production we have yearly data at the aggregate level from 1910 through 2001 (U.S. Department of Education 2005; Gaus 1934; U.S. National Academy of Sciences 1958; 1978; U.S. National Science Foundation 2005). For Ph.D. production at the departmental level, we have data reported by Somit and Tanenhaus (1964; 1967), and that in two early articles in the *APSR* (Gaus 1934; Munro 1930) for the period 1902–1933, with data for the periods 1948–1958 and 1966–2001

- taken from statistics provided by the National Science Foundation, National Academy of Sciences, and the Department of Education's National Center for Education Statistics.
- 3. To ascertain whether including emeriti faculty in the calculation of a department's citation count would have a major impact on departmental rankings, we ran additional analyses in which we excluded the citation counts for emeriti faculty. Of course, the total faculty citation counts for many top departments did decrease, but we found that there were no substantial differences in the rankings of the top departments, even though there was some movement within limited parameters. This stability is most likely due to three reasons. First, since the top-ranked departments' citation counts are much higher than that of their lower-ranked counterparts, removing emeriti citation counts (even of highly cited faculty) would not involve displacement of top departments from their positions. Second, because a large number of departments list emeriti on their faculty rosters, most departments had their citation counts lowered as a result of eliminating emeriti. Third, in no department are emeriti a substantial proportion of all listed faculty.
- 4. Klingemann (1986, 659) called attention to the under-ranking in prestige terms of Southwestern universities with high-citation faculty, especially those in California, which he attributed to prestige lagging "behind the massive shift in population, resources and talent that was moving to the Southwest during the 1970s and 1980s." As is apparent from Tables 3 and 4, the number of highly cited political scientists located in the West has continued to grow over the last two decades.
- 5. When we examine subfield distribution for the entire Political Science 400, we get only slightly different results. We find that, for American politics, Stanford's is still the top department in political science, with eight of its American politics faculty in the top 400. But now Ohio State's is second with six faculty in the top 400. In comparative politics, Harvard's is again at the top with 10 of its faculty in the Political Science 400, but now UC Berkeley's is next with eight, and Yale's drops to third with seven. For international relations, Columbia and Stanford's tie as the top departments. In methodology, the University of North Carolina-Chapel Hill's department joins the previously noted departments at Harvard, Michigan, Minnesota, and Ohio State in the tie for first. In political theory, five departments all have three faculty in the Political Science 400: those at Columbia, Harvard, University of Texas-Austin, UCLA, and Yale. It is in public policy/public administration/public law that we see the greatest change; now Johns Hopkins' is the premier department with four of its faculty in the top 400.
- 6. "Historically, the largest producers were also the most highly regarded departments. The lion's share of Ph.D.s traditionally came ... from departments which were prestigious as well as sizable" (Somit and Tanenhaus 1964, 31).
- 7. Using data in the form of rankings implicitly posits an equal spacing in perceived reputational differences between departments at adjacent ranks so that the difference between, say the 5th- and the 6th-ranked department would be the same as the difference between the 120th- and the 121st-ranked departments. Because we anticipate that identification of reputational differences among departments will be

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easier among the better-known departments, with a kind of reputational lumping effect for the less-well-known departments, the log of the ranks as our dependent variable gives us a nonlinear function of an appropriate shape. In this calculation, we have treated all unranked departments as being at rank 95. Clearly, lumping all unranked departments limits the best predictive fit we could hope to achieve, but if unranked departments are really low-ranked departments, as is almost certainly the case, this seems a more sensible way to treat the data than to eliminate a large number of departments from our regressions due to missing values.

When we use rankings without logging them, we get essentially the same results, but the explained variance is lower; the same is true when we delete cases with missing ranks rather than treat these departments as at the bottom of the rankings.

- 8. If we use the 2006 *U.S. News and World Report* rankings of *undergraduate* institutions as our measure of university prestige, we find a correlation of only -0.436 (an adjusted r^2 of 0. 175) between that measure and current (circa 2002) departmental total citation counts.
- 9. In the second paper of this series (Masuoka, Grofman, and Feld 2007b), in which we

analyze the production and placement rates of Ph.D.-granting institutions, we identified a core of eight departments (referred to as the Big 8) that exert a powerful influence on the profession by directly or indirectly shaping the faculty who train the discipline as a whole. These eight schools were found to hire primarily from each other and train the majority of the faculty members at 32 other top-placing departments. Together, these 40 departments train the majority (78%) of the faculty in Ph.D.-granting departments.

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