

AN INTER-DISCIPLINARY COMPARISON OF PUBLISHING PERFORMANCE

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ABSTRACT

This article compares publishing performance in economics with that in other departments. The primary thesis of this study is that the frequency of article publication is not uniform across principles. This article should help faculty members make more informed judgements when they are called upon to serve as peer reviewers outside their own disciplines.

INTRODUCTION

Faculty performance has long been gauged in academics by the frequency and quality of published journal articles. Annual merit reviews, promotion to higher ranks, and the granting of tenure are all tied to this criteria. Within each academic discipline, there is broad consensus on the number and quality of published articles that rank as meritorious. Judgements on the quality of journals is generally not a problem at this level, since departmental peers tend to be well-informed about the stature of academic publications in their own fields.

A problem arises however, in the assessment of publication performance outside a faculty member's own field of expertise. At many schools, assessments of performance are made by committees at the departmental, college and university levels. There tends to be general agreement within departments as to what constitutes a "sufficient" number of publications to justify tenure or promotion. As indicated earlier, colleagues within a department tend to be well-informed about both the stature of academic publications in their own field as well as what constitutes a reasonable quantity of such output. This is less true at the college level. Within a College of Science for example, a Mathematics professor is likely not to be familiar with journals in Biology. This problem is compounded even further when review committees are constituted at the university level. With professors drawn from fields as diverse as Nuclear Physics and Music, the judgement of performance across different disciplines is an arduous undertaking.

This article attempts to make such judgments easier by providing a comparison of the average number of articles published within each faculty rank for four different kinds of schools over the twenty-one year period from 1969 to 1989

for a large number of disciplines. This study is unique in that such an inter-departmental comparison of publication frequency has not previously been made in any published study. Studies abound on related issues such as the relative quality of economics departments based on the number and quality of publications produced by them.¹ Similarly a number of authors have ranked journals by their quality.² In this article, the average number of articles published by faculty (of different ranks) at four different kinds of academic institutions is listed for a wide variety of disciplines. These listings should provide Promotion and Tenure Committees with a means to compare publication performance across different departments.

DATA

The data used in this article have been drawn from six national surveys of college faculty in the United States (1969, 1972, 1977, 1984, 1988, and 1989). The 1969, 1984, 1988 and 1989 surveys were carried out by the Carnegie Foundation for the Advancement of Teaching. The 1972 data are from *Teaching Faculty in Academe 1972-73*, originally collected by the American Council of Education, and made available by the Inter University Consortium for Political and Social Research. The 1977 data are from *The 1977 Survey of the American Professoriate* conducted by Ladd and Lipset.

Tables 3-8, displayed at the end of this article, list the average number of published articles for four types of academic institutions as categorized by the Carnegie Foundation: *Research, Doctoral, Comprehensive and Liberal Arts. Junior Colleges*, a fifth classification was not used in this article since the structure of rewards at such institutions is usually not based on research output. At each of these four kinds of institutions, faculty were classified by the traditional three ranks: Professors, Associate Professors and Assistant Professors. Lecturers, Instructors, Adjunct Faculty, etc. were eliminated from the data since the irregular nature of such positions precludes them from being active participants in customary faculty roles (other than teaching). The average number of articles published for each rank within each of the four kinds of academic institutions was computed for each of the academic disciplines reported in the six data sets. There was a large variance in the number of disciplines reported in the data sets. The 1984 data reported only nine disciplines although these were very broadly defined, each encompassing several narrower disciplines. Social Sciences, for example, consisted of a large number of departments. On the other hand, the 1988 data listed as many as 114 disciplines. Thus the 1988 data with four kinds of academic institutions and three faculty ranks had 1,368 cells. The reason for several of them being blank (Table 7) is because there were just not enough observations to fill every cell. For example, none of the respondents in that year happened to be an Assistant Professor in Music History at a Research University.

INFERENCES FROM THE DATA

A clear pattern in the data is the increase in the number of publications in virtually every discipline between 1969 and 1989. This could be for a number of reasons. The most or one likely reason is the increased pressure on faculty to publish to gain tenure or promotion. This together with the increase in faculty strength over the years has led to the emergence of a large number of new journals to satisfy the burgeoning demand for research outlets. The increased availability of easily accessible research data at low cost is another reason publication output has risen sharply. The increasingly computer-literate faculty, along with much improved computer hardware and software has also considerably reduced the time taken to produce a research paper.

Table 1 takes the publication averages from five of the data sets for Economics faculty to gauge how publishing rates have changed over time for economics instructors (the 1984 data did not list Economics separately).

Table 1												
Average Number of Articles Published by Economics Faculty												
	Research			Doctoral			Comprehensive			Liberal Arts		
Year	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst
1969	10.69	5.09	1.21	12.60	5.45	1.39	12.43	4.50	2.23	11.12	3.75	1.40
1972	24.23	9.74	3.55	15.78	6.50	2.92	10.77	5.17	1.38	11.13	4.39	1.96
1977	20.28	12.33	12.00	22.00	7.00	-	27.00	7.00	-	40.25	-	-
1988	55.77	23.00	12.22	22.56	12.00	1.67	12.62	10.50	3.33	-	0.00	2.25
1989	32.91	16.43	7.13	32.40	8.73	3.83	14.75	7.88	2.00	23.56	5.50	2.70

It is evident from the data that the number of articles published by economics faculty has been rising over the twenty years between 1969 and 1988³. This is true of all faculty ranks. At Research Universities, the average number of published articles for Professors had risen from ten in 1988 to over 56 by 1989. For Associate Professors, there was an almost five-fold increase from 5 to 23. The highest percentage rise was for Assistant Professors (from a little over 1 to about 12). As is evident from the table, gains were quite strong at Doctoral Universities also. The reported increases in the average number of publications was not as pronounced at Comprehensive Universities, however. This might be taken as an indication of research being weighed less heavily in promotion and tenure decisions at such Universities than at their Research and Doctoral counterparts. Alternatively, it could be a result of the generally higher teaching loads at Comprehensive Universities, which leads to relatively less time for research-oriented activities.

COMPARISON OF ECONOMICS WITH OTHER DEPARTMENTS

Table 7 (computed from 1988 data) being more comprehensive than Table 8 (which uses 1989 data) in the sense of reporting far more departments, is used to compare frequency of publishing by economics faculty, relative to instructors in other departments. Some of the results from Table 7 are presented in Table 2, where the average publishing performance of Professors in economics is compared to that of their counterparts in certain selected disciplines.

	Research	Doctoral	Comprehensive
Economics	56	23	13
Some High - Publishing Departments			
Italian	163	-	16
Physical Sciences	147	-	11
Astronomy	128	-	36
Library Science	121	52	3
Pharmacy	120	104	16
Chemistry	112	64	25
Biology	112	55	17
English Comp	104	46	10
Some Low - Publishing Departments			
Music	15	14	5
Home Economics	10	8	18
Accounting	10	5	5
Drama	6	8	10
Adult Education	3	-	1

The basic thesis of this article is clear from Table 2: basing performance of faculty drawn from different departments simply on the number of published articles is likely to lead to misleading conclusions. The variance in publishing rates across disciplines is very high. Among Research Universities, the average number of articles reported for Professors in Economics was 56. This compares with 162 for Professors of Italian. On the other extreme, Professors in Adult Education had an

average of only 3 published articles at Research Universities. Of course, it must be granted that article-publication may not be the most important way in which faculty demonstrate merit in some disciplines. Music and the Fine Arts may be some such examples. More importantly however, the process of producing a publishable research paper may be a much more drawn-out process in some disciplines than it is in others. Thus basing merit decisions on raw number of published articles alone would be inappropriate, if inter-departmental comparisons are being made.

CONCLUDING REMARKS

This article has attempted to compare publishing performance in economics with that in other departments. Within individual departments, broad consensus generally exists on the output necessary for tenure and promotion. Difficulties arise when faculty members on Promotion and Tenure Committees at the University level attempt to assess the threshold levels of articles for departments other than their own. The primary thesis of this study is that the frequency of publishing is not uniform across all disciplines. Statistics computed from six national surveys of faculty members confirm that this is indeed true. Promotion and Tenure Committees must be aware of this variability in making inter-departmental judgements. It is hoped that this article will help in not only promoting this awareness, but in helping faculty members make more informed judgements where they are called upon to serve as peer reviewers outside their own disciplines.

END NOTES

- 1 See for example, Graves et al. (1982), Tschirhart (1989), Laband (1986), etc.
- 2 See for example Leibowitz and Palmer (1984), Malouin and Outreville (1987), Ashraf (1992), etc.
- 3 For inexplicable reasons, the reported publishing rate was lower in the 1989 data than it was in 1988. Discussion of publishing performance in economics (Table 1) ignores the 1989 data.

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	Research			Doctoral			Comprehensive			Liberal Arts		
	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst
Education	13.28	4.86	1.64	7.92	8.82	2.56	7.31	2.20	2.04	9.39	2.11	2.38
Elem/Sec Education	9.95	4.66	5.13	5.29	3.23	1.72	8.64	4.06	2.41	10.82	5.40	2.78
Found. Education	3.75	6.50	0.00	8.83	10.19	1.20	10.64	2.40	4.20	10.70	6.36	3.89
Ed. Psychology	12.50	4.18	3.32	14.05	4.38	3.22	10.17	6.41	4.03	13.08	6.02	3.01
Ed. Administration	12.04	7.44	5.38	13.17	15.50	5.25	12.73	9.06	2.21	12.70	5.90	1.90
Other Education	13.97	6.98	2.48	11.40	5.80	2.50	13.89	7.94	5.85	14.27	6.72	2.62
Engineering	17.50	6.28	1.73	8.83	1.67	7.50	11.95	3.03	2.39	11.37	5.63	2.23
Chemical Engineering	19.22	14.31	6.45	16.69	9.34	3.83	18.93	11.03	2.50	16.43	9.17	4.18
Civil Engineering	15.11	11.43	4.33	14.77	3.81	4.14	16.15	5.42	4.59	13.76	6.60	2.54
Electrical Engineering	13.95	13.62	3.46	12.96	7.52	4.73	12.32	7.15	3.14	11.60	6.90	3.46
Mech Engineering	14.48	9.53	3.14	13.00	5.37	2.63	13.07	5.47	4.96	11.77	4.95	2.27
Other Engineering	16.18	5.87	3.97	14.35	8.62	3.34	14.09	7.43	2.47	13.29	7.69	3.06
Fine Arts	11.21	3.90	0.21	10.30	0.00	3.50	6.50	2.68	0.72	5.12	1.31	2.22
Art	9.16	3.03	1.40	5.40	2.55	0.93	6.00	2.48	1.16	6.47	3.14	1.08
Drama	12.12	3.29	2.19	10.42	6.22	1.68	8.66	4.27	1.32	7.35	5.72	2.36
Music	6.42	4.26	1.26	3.89	1.83	0.62	6.23	2.00	1.81	5.23	3.04	1.10
Other Arts	4.50	0.00	2.75	-	-	0.75	8.83	4.17	0.70	12.94	4.42	2.78

Table 3
Average Number of Articles per Faculty Member, 1969

	Research			Doctoral			Comprehensive			Liberal Arts		
	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst
Geography	13.71	10.35	2.21	12.20	8.43	3.32	10.05	4.77	3.20	15.07	5.23	3.19
Health	19.19	15.57	5.15	19.00	4.40	5.00	23.42	17.70	3.97	16.86	15.50	9.48
Medicine	20.28	14.63	8.64	21.71	16.40	10.05	20.64	18.64	9.27	21.46	17.13	9.25
Nursing	9.70	2.02	1.40	4.57	1.52	0.69	10.64	2.27	0.48	5.99	2.96	1.02
Other Health	18.04	10.56	5.36	19.45	10.57	5.38	18.88	16.45	6.81	14.85	9.46	6.24
Home Economics	5.83	2.85	1.05	7.38	4.86	1.21	10.68	3.68	1.15	11.15	3.41	0.96
Humanities	13.55	5.75	2.05	10.30	1.67	0.00	9.10	0.30	1.96	6.76	3.79	1.20
English Language	10.04	5.10	2.20	10.34	5.18	2.25	8.19	4.60	1.99	10.95	5.48	1.81
Foreign Languages	10.33	2.88	1.92	8.93	1.20	0.78	8.86	1.61	2.11	11.45	5.49	1.38
French	13.55	4.10	0.96	8.39	6.06	0.94	16.54	3.38	2.10	8.19	4.21	1.24
German	10.23	8.07	0.98	12.88	6.53	0.83	16.35	6.83	1.03	11.81	3.91	1.33
Spanish	9.06	8.10	1.21	12.63	5.39	3.54	17.68	4.90	1.75	12.39	4.17	2.60
Other Languages	11.04	5.24	2.70	12.03	7.25	1.78	15.90	6.61	3.67	13.98	5.27	2.18
History	7.44	3.89	1.66	9.02	3.95	1.39	8.77	3.35	1.27	8.22	4.77	1.61
Philosophy	14.61	5.20	1.92	11.10	6.56	0.66	12.66	5.50	1.52	10.98	5.70	1.21
Religion	9.47	2.88	1.98	11.20	5.14	2.63	12.17	5.06	1.36	7.63	3.64	2.59
Other Humanities	10.88	—	1.00	14.13	5.50	0.83	13.90	4.00	1.75	13.02	11.22	2.42
Industrial Arts	6.13	1.00	1.63	2.25	0.83	0.70	4.25	5.06	1.25	6.57	3.57	0.50
Journalism	5.17	5.95	1.39	10.93	1.00	2.50	10.40	3.96	2.19	11.53	7.15	2.71
Law	11.54	2.57	1.69	10.48	3.64	2.50	10.52	2.38	1.79	9.11	4.20	1.91
Library Science	7.19	1.80	1.13	15.13	9.10	0.00	12.38	2.77	3.28	12.57	5.30	1.96
Math/Statistics	15.17	5.79	2.40	12.75	6.84	2.25	11.89	4.71	2.21	12.83	6.54	2.45
Physical Education	7.95	2.81	1.16	7.33	6.15	1.68	6.41	2.63	2.55	7.65	3.29	2.50
Physical Sciences	0.00	-	0.00	3.50	5.00	2.25	13.64	1.60	5.43	9.27	5.71	4.36
Chemistry	16.91	11.50	7.80	17.23	12.69	6.18	18.39	9.30	5.41	17.94	11.53	6.64
Earth Sciences	19.10	13.38	6.20	17.64	11.75	6.20	18.90	9.90	6.66	18.25	11.06	5.04
Physics	19.12	11.98	8.10	16.70	10.37	6.71	18.51	13.22	6.22	17.13	10.73	6.00
Other Physics	23.65	16.89	8.31	18.56	9.38	10.58	21.11	9.60	13.22	22.36	12.50	5.61
Psychology	17.74	9.13	3.61	19.02	10.40	4.76	13.08	8.81	3.77	16.26	8.25	4.25
Clinical Psychology	10.00	18.25	2.94	25.00	8.14	3.17	2.50	13.33	3.93	16.30	9.98	3.57
Experimental Psych	23.54	13.00	5.33	20.35	10.12	5.13	21.53	14.67	6.29	18.14	12.93	5.71
Social Psychology	-	12.20	4.83	16.67	8.50	1.75	22.63	7.50	2.17	21.64	9.94	5.21
Counseling	0.75	0.00	1.69	-	-	0.75	11.50	7.50	-	8.50	5.29	1.00
Other Psychology	12.50	12.17	4.92	15.08	10.75	6.00	14.17	14.67	3.38	13.95	11.73	3.71

Table 3
Average Number of Articles per Faculty Member, 1969

	Research			Doctoral			Comprehensive			Liberal Arts		
	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst
Social Sciences	-	2.43	2.10	8.50	4.80	1.00	13.30	0.00	2.36	6.20	2.75	1.83
Anthropology&Arch.	19.42	11.41	4.83	22.00	10.33	5.24	21.15	7.15	3.44	16.99	10.05	4.34
Economics	10.69	5.09	1.21	12.60	5.45	1.39	12.43	4.50	2.23	11.12	3.75	1.40
Political Science	9.74	5.30	2.86	12.62	8.19	2.39	10.83	3.85	1.55	10.62	5.33	1.22
Sociology	13.59	4.81	2.89	11.10	6.00	2.85	10.66	4.00	1.71	14.23	6.29	3.02
Other Social Sciences	16.67	7.50	0.50	17.70	10.58	3.07	17.63	6.00	5.05	13.89	8.44	4.04
Social Work	8.28	3.29	1.01	7.56	3.68	1.70	15.94	5.41	0.88	10.39	4.26	1.12
All Other	11.35	9.72	2.25	10.24	9.40	2.47	8.43	7.46	1.28	9.79	5.07	2.15
Arch. & Design	8.64	5.03	0.45	5.34	2.95	1.53	7.24	4.11	2.42	6.02	2.90	1.28
Biological Sciences	15.65	11.64	4.59	17.17	9.31	2.89	14.57	8.42	4.19	14.83	10.58	4.11
Bact.	20.88	17.52	9.27	22.69	17.85	8.67	23.31	16.47	9.20	20.47	16.02	7.89
Bio. Chemistry	19.94	19.43	9.96	22.40	20.26	12.39	22.31	21.83	12.38	22.55	18.00	12.70
Botany	25.00	9.80	8.57	22.29	12.09	4.92	19.86	13.83	6.58	19.11	10.26	5.05
Physiology	22.84	17.20	7.19	23.09	15.89	10.37	22.24	18.17	9.00	21.37	14.58	8.52
Zoology	17.82	14.18	8.84	18.17	13.37	5.37	20.79	13.79	6.50	17.85	11.99	6.53
Other Biology	20.22	15.46	8.76	21.93	18.48	10.18	19.98	14.65	12.59	20.70	15.54	8.90
Business	9.17	4.91	2.05	9.11	4.88	1.69	9.90	4.08	1.18	9.65	4.17	1.67
Marketing	25.00	12.00	3.75	0.00	-	3.88	15.50	3.50	3.63	11.00	1.60	3.92
Agriculture	18.17	12.43	7.06	18.44	11.85	6.45	16.24	8.68	5.97	17.01	11.05	5.32

Table 4
Average Number of Articles per Faculty Member, 1972

	Research			Doctoral			Comprehensive			Liberal Arts		
	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst
Agriculture	31.27	18.82	9.52	23.13	13.05	6.08	9.31	4.70	2.40	0.75	4.50	1.50
Architecture	13.25	4.99	2.45	4.14	5.28	2.89	11.64	2.19	2.50	-	8.50	-
Bio. Sciences	39.76	19.46	10.25	30.66	18.55	8.42	14.58	9.13	3.75	13.00	5.33	4.75
Bact./Virology	41.42	25.97	15.31	32.87	9.85	7.50	18.75	19.70	4.88	3.75	4.50	2.17
Bio. Chemistry	44.66	29.32	16.49	41.48	20.74	9.77	53.50	0.00	-	3.50	5.00	-
Botany	36.07	21.88	7.64	38.47	13.85	5.78	13.05	13.77	5.75	25.50	0.00	1.50
Physiology	39.97	24.79	12.05	39.85	18.91	10.78	5.25	-	3.88	-	8.70	2.50
Zoology	38.16	20.83	12.68	23.32	20.55	10.05	10.25	13.69	8.95	29.20	15.50	5.00
Business	25.99	12.78	4.68	9.04	6.57	2.46	7.82	3.17	0.87	5.73	2.16	0.38
Accounting	18.96	7.74	3.93	8.44	5.76	4.14	6.76	2.95	0.70	3.25	0.00	0.60

Table 4
Average Number of Articles per Faculty Member, 1972

	Research			Doctoral			Comprehensive			Liberal Arts		
	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst
Finance	15.39	10.53	5.55	10.88	6.45	1.72	5.00	10.39	0.71	0.00	-	-
Marketing	22.34	15.87	7.09	11.41	5.42	3.67	14.39	5.00	0.50	5.00	19.50	0.00
Management	21.24	11.34	4.67	18.20	9.21	2.75	7.18	3.70	2.18	15.50	13.33	4.50
Comp. Science	28.05	14.19	6.09	19.97	7.95	2.18	6.00	5.80	2.14	9.00	2.25	3.42
Education	24.84	12.48	4.15	18.26	8.02	3.51	10.35	3.72	2.46	8.22	2.17	1.03
Elem./Secondary Ed.	21.32	9.75	5.53	18.48	9.51	4.41	9.93	5.16	2.51	3.27	3.95	2.42
Ed. Administration	23.52	10.01	5.18	18.02	4.58	3.55	10.74	6.09	1.58	5.33	-	7.50
Ed. Psychology	27.14	14.06	6.62	19.46	8.24	4.16	6.15	4.64	2.17	0.00	7.75	0.75
Other Education	24.91	12.45	6.60	19.19	11.43	3.29	12.47	5.79	2.54	7.20	5.20	1.61
Engineering	29.89	14.48	5.81	21.38	11.28	4.06	7.95	4.13	3.21	7.90	8.25	9.00
Aero. Engineering	25.83	14.27	6.09	24.31	10.25	5.50	-	-	-	-	-	-
Chem. Engineering	31.93	18.16	8.71	28.93	12.48	5.94	13.29	14.50	2.80	10.25	-	-
Civil Engineering	29.10	11.98	5.67	15.78	6.49	4.38	8.50	3.94	4.40	-	-	-
Electrical Engineering	27.15	16.05	6.93	18.08	10.14	5.93	5.17	4.85	0.86	9.25	-	-
Mech Engineering	25.62	11.69	6.39	18.33	7.76	8.41	4.90	4.58	4.86	15.50	-	-
Art	11.26	6.14	3.96	8.59	3.12	1.55	6.34	3.31	0.90	10.29	2.20	2.31
Drama	18.69	8.05	3.79	11.28	5.45	1.79	7.94	3.49	1.29	5.52	2.22	0.86
Music	9.83	6.09	2.72	9.55	7.03	2.08	7.99	3.46	1.41	5.46	4.71	0.72
Other Art	15.75	5.46	7.29	24.50	5.60	0.43	3.50	4.20	0.75	7.38	0.60	2.56
Geography	29.07	14.52	6.92	17.60	10.58	5.70	7.23	5.80	4.79	9.58	-	2.33
Dentistry	32.12	17.44	6.21	35.25	13.50	1.50	-	-	-	-	-	-
Medicine	40.06	25.05	11.64	28.72	17.32	4.46	0.00	-	-	-	-	3.50
Nursing	16.17	4.94	1.93	9.31	3.10	1.45	5.41	0.89	0.89	2.25	1.13	0.66
Pharmacy	39.49	24.97	14.36	31.48	16.71	9.45	18.67	17.00	3.50	-	-	-
Home Economics	14.75	6.77	3.80	14.47	3.30	1.52	3.41	1.69	0.60	0.75	0.70	0.25
English Language	23.33	9.81	3.96	21.37	6.85	3.34	12.66	4.73	1.75	8.43	4.21	1.69
Foreign Languages	20.76	6.79	3.33	14.53	3.31	2.90	12.32	5.57	0.93	5.79	2.23	1.32
French	26.42	8.32	4.35	20.23	5.80	1.69	15.68	7.15	1.68	8.03	5.79	1.17
German	25.14	8.72	3.29	28.63	4.89	2.76	8.06	2.64	1.10	6.89	4.00	0.89
Spanish	27.74	10.73	4.44	28.95	7.86	5.00	25.00	3.42	1.96	14.33	2.68	2.12
Other Languages	27.95	11.66	4.47	18.13	12.13	3.08	23.22	4.22	5.96	8.04	8.20	1.75
History	18.39	8.32	3.61	14.33	7.99	2.82	9.32	4.59	2.54	9.04	3.90	1.60
Philosophy	24.76	8.89	3.03	18.24	8.80	3.17	9.29	4.01	3.06	9.66	3.63	1.91
Religion	22.63	12.45	4.35	18.23	9.92	4.64	13.80	5.21	5.44	9.71	7.16	2.64

Table 4
Average Number of Articles per Faculty Member, 1972

	Research			Doctoral			Comprehensive			Liberal Arts		
	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst
Industrial Arts	16.14	8.28	2.36	14.00	0.50	6.25	6.66	2.16	1.34	-	3.50	0.00
Journalism	20.88	9.85	2.80	16.41	9.69	7.86	7.29	5.25	0.81	21.17	3.00	1.50
Law	17.28	5.27	1.95	13.43	3.88	2.81	5.36	11.75	7.63	21.13	3.25	-
Library Science	24.84	11.64	2.83	11.25	2.50	3.43	7.25	3.73	1.71	11.40	1.82	0.38
Math&Statistics	27.50	11.77	5.51	18.23	8.27	4.05	6.50	3.24	1.71	6.73	2.49	1.29
Physical Education	20.55	8.80	3.69	13.53	6.73	3.19	6.53	3.38	1.73	4.48	2.56	1.72
Chemistry	43.46	25.69	15.24	32.77	17.96	11.39	12.42	7.52	4.08	13.97	4.93	5.16
Earth Sciences	36.19	19.58	10.71	28.57	17.58	8.26	10.39	6.59	3.62	13.89	10.29	7.63
Physics	36.21	21.40	13.94	25.46	18.48	12.93	14.73	6.16	3.78	12.43	5.49	4.20
Psychology	34.90	18.30	8.07	30.07	11.72	6.28	13.82	9.27	3.83	12.28	8.15	3.09
Clinical Psychology	35.91	12.00	7.47	24.54	16.92	5.44	15.11	1.00	3.67	5.00	-	-
Exper. Psychology	40.24	19.52	10.97	32.39	15.47	6.83	27.85	9.83	4.08	22.13	8.38	6.42
Social Psychology	32.38	17.71	10.75	19.00	15.50	1.90	25.38	-	2.50	11.00	-	8.50
Counseling	25.15	13.58	3.63	14.11	7.64	3.50	7.27	5.23	2.44	5.00	5.33	0.00
Other Psychology	34.14	18.05	9.22	9.75	8.57	6.80	21.21	2.40	5.64	28.67	2.40	4.17
Anthropology&Arch.	33.32	15.47	8.02	33.56	10.03	5.67	16.00	10.11	3.17	14.77	7.88	4.06
Economics	24.23	9.27	3.63	18.23	8.47	3.03	9.94	4.23	2.06	9.64	5.34	1.95
Political Science	23.25	9.74	3.55	15.78	6.50	2.92	10.77	5.17	1.38	11.13	4.39	1.96
Sociology	26.87	10.97	5.60	19.15	10.41	3.59	12.99	5.42	3.84	8.34	3.50	2.12
Social Work	18.32	5.76	1.51	13.33	5.91	1.25	13.14	3.34	0.33	2.75	5.00	0.75
Vocational Tech	24.58	7.80	6.86	21.83	5.63	6.29	7.33	1.50	2.10	-	-	-

Table 5
Average Number of articles per Faculty Member, 1977

	Research			Doctoral			Comprehensive			Liberal Arts		
	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst
Agriculture	39.11	17.31	-	38.25	39.00	17.00	30.00	37.00	9.00	-	-	-
Arch./Design	16.50	12.00	7.00	39.00	-	-	-	-	-	-	-	-
Biological Sciences	37.85	17.00	9.00	41.00	17.00	5.00	29.96	18.00	-	-	-	7.00
Mol./Cell. Biology	-	39.00	19.00	-	-	-	-	-	-	-	-	-
Micro Biology	53.90	35.25	37.00	50.25	39.00	3.00	-	-	-	-	-	-
Biochemistry	45.88	27.00	-	27.00	27.00	-	40.25	-	-	-	-	-
Genetics	53.50	-	9.00	-	29.00	-	-	-	-	-	-	-

Table 5
Average Number of articles per Faculty Member, 1977

	Research			Doctoral			Comprehensive			Liberal Arts		
	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst
Ecology	39.13	37.00	-	43.00	-	9.00	9.00	-	-	-	-	-
Anatomy	53.50	17.00	-	53.50	-	-	-	-	-	-	3.00	-
Physiology	60.00	16.50	9.00	-	-	-	-	-	-	-	-	-
Behavioral Sciences	53.50	21.00	-	-	5.00	-	-	-	-	19.00	-	-
Other Biology	39.17	17.00	14.00	-	-	-	30.25	-	-	-	-	-
Bus Administration	28.39	6.00	7.00	45.00	19.67	6.00	17.50	6.00	11.67	11.00	-	-
Accounting	18.38	12.50	4.00	3.00	11.00	-	5.00	3.00	-	-	-	-
Finance	20.00	11.80	7.00	9.00	-	-	9.17	6.33	-	-	-	-
Marketing	23.55	10.67	7.00	21.10	22.00	11.00	27.00	-	7.00	-	-	-
Management	20.70	8.00	5.50	11.25	-	-	24.17	12.33	9.00	-	-	-
Other Business	26.65	12.67	5.00	9.00	11.00	9.00	-	9.00	-	60.00	-	-
Computer Science	44.25	35.50	3.00	-	-	3.00	-	-	-	-	-	-
Education	27.24	10.28	5.75	20.71	8.50	5.50	19.38	14.00	4.33	9.00	5.00	-
Engineering	57.50	-	5.00	-	-	-	-	9.00	-	-	-	-
Aero. Engineering	7.00	51.50	-	9.00	-	-	-	-	-	-	-	-
Chemical Engineering	53.50	-	-	-	-	5.00	-	-	-	-	-	-
Civil Engineering	31.17	20.79	10.00	15.00	-	-	17.00	-	-	-	-	-
Electrical Engineering	28.60	6.00	7.00	11.00	9.00	-	11.00	-	-	-	-	-
Mech Engineering	27.54	8.00	-	13.50	-	-	-	9.00	-	-	-	-
Other Engineering	38.47	19.40	9.00	24.00	-	-	-	-	-	-	-	-
Art	22.33	-	-	-	9.00	35.50	4.00	-	-	-	-	-
Drama	9.00	15.00	-	-	9.00	3.00	34.50	5.00	3.00	45.50	-	-
Music	17.63	14.00	-	-	-	-	5.00	4.00	11.00	-	-	11.00
Geography	17.67	-	17.00	15.00	15.50	-	-	3.00	5.00	-	-	-
Health Sciences	42.58	-	9.00	60.00	-	-	15.00	-	-	-	-	-
Medicine	42.75	28.40	19.67	53.50	27.00	-	-	-	-	-	-	17.00
Dentistry	23.67	14.00	-	28.00	-	-	-	3.00	9.00	-	-	-
Nursing	17.13	6.00	3.00	-	3.00	3.00	-	-	-	-	-	-
Allied Health	24.00	9.00	-	-	-	3.00	-	-	3.00	-	-	-
Pharmacy	51.50	-	-	-	-	3.00	-	-	-	-	-	-
Public Health	38.50	15.00	15.00	-	-	-	-	-	-	-	-	-
Home Economics	22.00	28.25	-	-	-	5.00	-	-	-	17.00	-	-
Humanities	9.00	27.00	5.00	-	9.00	-	9.00	-	-	-	-	-
English	18.48	19.21	6.33	14.63	6.33	5.67	32.25	3.00	-	-	-	3.00

Table 5
Average Number of articles per Faculty Member, 1977

	Research			Doctoral			Comprehensive			Liberal Arts		
	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst
Foreign Languages	21.87	8.14	3.50	13.00	17.00	3.00	45.67	-	3.00	19.00	4.00	-
History	19.88	7.67	5.00	9.07	9.00	-	13.75	7.00	-	16.50	-	5.00
Philosophy	23.43	17.00	5.00	-	-	3.00	15.17	12.00	-	24.00	-	-
Religion	-	7.00	-	-	9.00	-	39.00	-	-	-	-	-
Industrial Arts	3.00	-	-	19.00	-	-	-	27.00	-	-	-	-
Journalism	16.50	17.00	29.00	-	-	-	14.00	5.00	-	-	-	-
Law	21.72	11.00	3.00	7.67	-	-	17.00	-	9.00	5.00	-	-
Library Science	27.00	11.50	4.00	25.67	9.00	11.00	5.00	-	-	-	-	-
Math/Statistics	26.84	12.78	9.00	18.33	17.00	-	24.75	9.00	17.00	-	-	-
Physical Education	23.60	-	11.00	9.00	-	-	-	-	-	29.00	10.00	-
Physical Sciences	15.67	-	-	39.00	-	3.00	-	17.00	23.00	-	-	-
Chemistry	45.35	25.32	35.25	37.17	37.00	17.00	31.25	-	-	30.00	5.00	-
Environmental Science	42.00	24.08	-	-	17.00	-	45.25	-	-	-	-	-
Physics	38.85	27.07	22.00	39.00	-	-	9.00	17.00	-	9.00	-	-
Psychology	37.54	26.22	14.23	25.36	-	-	23.67	9.00	-	23.00	-	-
Social Sciences	19.00	10.33	-	-	9.00	-	5.00	5.00	-	53.50	-	-
Anthropology./Arch.	30.06	15.59	5.00	48.25	-	11.00	23.00	17.00	9.00	15.00	-	-
Economics	20.28	12.33	12.00	22.00	7.00	-	27.00	7.00	-	40.25	-	-
Political Science	23.43	11.82	8.43	14.11	6.67	4.00	11.67	7.00	9.67	27.43	7.00	7.67
Sociology	31.90	13.03	9.80	16.60	18.00	8.00	21.67	-	8.00	34.67	-	3.00
Other Social Sciences	29.67	19.00	9.00	23.00	-	-	-	-	-	-	-	-
Social Work	31.17	7.00	9.00	60.00	9.00	-	43.00	3.00	5.00	29.00	-	-
Org. Biology	-	-	-	57.50	27.00	-	-	17.00	-	-	-	-
Evolution	-	17.00	-	55.50	17.00	-	-	-	-	-	-	-

Table 6
Average Number of Articles per Faculty Member, 1984

	Research			Doctoral			Comprehensive			Liberal Arts		
	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst
Biology	21.33	18.50	12.35	20.03	12.36	13.00	12.24	6.42	5.81	6.28	6.71	10.75
Education	19.78	13.88	8.13	13.97	9.85	7.29	7.94	5.03	4.79	5.61	3.36	1.30
Engineering	18.84	8.23	5.00	16.73	12.21	5.80	9.88	7.93	1.60	3.00	-	3.00
Fine Arts	9.54	5.54	2.14	6.62	5.05	3.10	3.50	2.18	2.12	1.91	2.65	1.90
Health Sciences	21.26	7.09	9.82	20.70	6.81	4.06	14.79	10.05	2.34	-	5.00	0.75

Table 6
Average Number of Articles per Faculty Member, 1984

	Research			Doctoral			Comprehensive			Liberal Arts		
	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst
Humanity	17.69	10.43	4.58	13.74	6.07	11.94	8.54	6.52	5.58	7.15	5.68	3.06
Physical Sciences	20.53	18.95	12.31	17.79	13.54	10.36	12.86	9.24	6.50	11.00	2.63	3.75
Social Sciences	19.72	16.94	3.82	15.45	8.69	3.71	8.74	5.22	4.00	12.50	6.45	3.40
Professional	16.15	9.03	7.62	9.94	7.63	2.60	7.04	5.04	2.79	-	-	3.25

Table 7
Average Number of Articles per Faculty Member, 1988

	Research			Doctoral			Comprehensive			Liberal Arts		
	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst
Curr./Instruction	95.33	36.67	14.00	84.60	12.50	-	13.31	13.00	17.60	33.00	-	7.00
Ed. Administration	24.57	16.60	10.00	24.22	25.50	-	3.67	8.75	3.00	5.00	-	-
Ed. Evaluation	55.67	60.00	14.50	-	25.50	10.00	3.00	8.00	7.00	-	-	-
Ed. Psychology	39.80	17.00	5.00	26.67	-	4.50	22.50	6.00	0.00	21.50	7.67	4.00
Spec. Education	47.20	25.00	-	12.00	16.50	3.00	7.75	8.75	5.09	-	-	2.50
Counseling	24.00	7.80	-	17.75	-	10.67	15.13	6.14	4.67	-	-	2.00
Other Education	32.82	18.63	8.00	19.00	16.00	11.33	16.36	11.18	1.89	22.00	0.00	2.67
Pre-Elementary	-	-	4.50	20.00	4.00	0.50	6.50	3.50	3.00	30.00	5.00	-
Elementary	57.50	31.00	-	17.50	10.33	4.50	12.25	5.27	1.45	0.00	0.00	4.00
Second Education	50.00	19.80	-	14.75	16.63	-	19.00	1.60	8.80	-	-	0.25
Teach. Education	45.14	27.71	16.00	41.67	7.25	0.00	5.27	5.31	4.14	0.00	1.00	0.00
Civil Engineering	42.60	37.14	18.00	25.50	53.00	1.00	13.43	6.50	3.00	16.00	-	24.00
Electrical Engineering	29.80	27.67	9.29	39.83	14.33	5.33	14.00	17.75	3.80	-	0.00	-
Mech Engineering	47.00	55.33	9.00	14.20	23.50	6.25	27.67	10.43	9.86	6.00	-	-
Other Engineering	77.75	24.20	10.38	54.38	22.75	6.33	10.40	8.50	13.20	11.00	3.00	20.00
English	20.25	14.00	4.00	11.00	10.00	1.00	18.71	5.36	5.78	7.82	4.50	0.33
Composition	103.67	8.33	3.75	45.50	9.00	46.00	10.29	22.71	14.20	6.00	36.67	0.00
American Literature	21.00	10.67	18.00	56.83	16.00	11.50	10.50	7.44	-	11.00	17.60	3.50
English Literature	47.09	11.94	8.75	38.67	6.50	4.13	11.69	5.83	4.75	10.70	14.50	2.00
Linguistics	53.00	17.57	2.33	16.00	10.67	-	-	1.75	2.20	0.00	-	-
French	65.80	12.30	4.20	36.33	8.50	4.00	7.35	4.64	2.35	2.57	5.33	1.25
German	23.42	14.36	5.00	12.50	4.67	6.00	15.00	3.57	3.83	1.75	2.33	4.75
Latin	21.00	19.00	4.00	6.00	-	3.00	40.75	1.00	2.00	25.00	-	1.50
Slavic	46.67	10.33	4.50	24.00	5.00	2.00	0.00	7.50	-	7.00	7.50	14.25
Spanish	39.86	10.67	10.33	24.17	10.63	7.88	13.36	6.75	5.00	4.00	7.75	1.50

Table 7
Average Number of Articles per Faculty Member, 1988

	Research			Doctoral			Comprehensive			Liberal Arts		
	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst
Agriculture	46.00	26.00	-	14.00	63.00	-	17.20	5.75	-	-	-	6.00
Agriculture Sciences	73.21	23.44	15.86	37.00	47.00	10.25	20.89	10.25	8.60	-	-	8.00
Fish/Forestry	73.20	11.25	33.50	35.25	27.60	4.33	-	-	-	-	-	-
Architecture	15.75	16.71	21.60	10.00	11.00	2.00	14.00	13.67	4.00	3.00	9.00	6.00
City Planning	30.00	19.00	11.50	-	30.00	-	0.00	-	0.00	-	-	-
Art History	19.50	13.00	8.67	11.00	30.00	1.00	7.33	5.33	67.33	0.00	0.00	0.50
Drama	6.29	39.00	0.60	8.00	4.00	0.00	9.67	7.00	2.20	-	3.00	0.33
Fine Art	8.50	4.80	0.00	13.50	5.20	0.00	13.22	2.00	3.36	0.00	0.00	1.67
Music	14.83	8.33	0.20	14.20	1.60	2.83	4.92	5.40	0.71	8.50	6.60	1.30
Music History	16.50	11.00	-	-	8.50	-	12.33	-	3.00	-	-	2.00
Accounting	10.00	16.17	6.22	5.33	10.00	0.50	5.00	7.38	1.50	0.50	3.00	0.40
Bank	62.00	11.67	2.00	18.00	6.33	5.00	14.60	18.00	0.20	14.00	0.00	-
Management	24.50	24.00	7.00	28.67	8.00	-	38.25	10.83	2.60	8.00	13.00	5.25
Org. Behavior	34.33	42.00	8.67	16.00	-	-	33.00	16.50	3.25	-	-	-
Marketing	25.40	33.00	2.00	-	11.67	6.00	4.00	7.67	1.60	-	-	3.00
Journalism	42.00	-	14.00	15.00	3.50	0.00	86.50	4.78	3.60	10.00	-	1.00
CIS	12.50	28.00	5.25	13.00	-	2.00	13.23	3.83	2.13	3.00	13.50	0.40
Education	15.00	14.00	-	19.50	25.00	-	37.25	3.20	2.50	3.00	3.00	-
Medicine	79.49	-	20.35	76.50	26.88	12.00	46.60	26.00	8.75	-	-	-
Nursing	29.67	44.38	8.87	-	8.36	1.80	3.83	6.73	0.78	6.00	2.33	0.00
Pharmacy	120.14	-	23.75	104.00	32.67	1.00	16.00	12.50	-	-	-	-
Pub. Health	33.00	18.33	14.00	-	-	6.00	111.00	3.50	-	-	-	-
Other Health	51.89	30.67	23.80	32.67	9.71	0.00	33.50	-	5.20	-	-	0.00
Home Economics	10.00	17.00	4.71	8.33	11.00	1.71	18.50	6.40	0.80	0.00	-	-
Industrial Art	-	23.25	18.00	-	0.00	7.00	31.00	8.50	0.00	-	-	-
Law	19.73	20.33	4.80	14.00	-	10.00	7.50	2.00	3.80	41.00	-	-
Library Science	120.67	-	18.00	52.00	-	1.50	3.00	9.00	0.00	1.00	2.00	-
Biology	111.71	36.50	18.33	54.75	12.80	9.00	17.19	10.14	6.83	8.88	4.25	6.00
Botany	147.75	38.60	-	54.50	46.00	-	17.40	-	6.00	10.00	-	-
Chemistry	111.88	38.60	18.63	64.10	25.00	18.71	24.91	8.20	4.71	10.50	8.71	4.17
Geology	56.82	-	10.00	18.00	13.25	15.00	6.00	7.50	4.00	9.50	9.00	12.00
Physics	91.83	23.86	16.00	76.00	35.83	17.00	37.89	6.50	11.67	9.00	6.67	3.00
Physiology	88.00	31.00	14.00	37.00	57.00	-	22.00	0.00	-	-	-	0.00
Zoology	42.00	33.00	17.00	34.00	27.00	-	6.50	25.00	1.00	12.00	25.00	-

Table 7
Average Number of Articles per Faculty Member, 1988

	Research			Doctoral			Comprehensive			Liberal Arts		
	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst
Mathematics	41.47	16.67	8.82	40.71	16.20	7.33	6.65	6.75	4.75	2.83	7.00	2.00
International Studies	33.00	29.00	7.00	6.00	-	-	10.00	7.67	-	-	-	-
Philosophy/Religion	39.41	12.29	6.34	39.79	12.13	5.05	19.48	7.35	4.19	14.30	7.70	2.08
Psychology	68.31	20.56	10.50	63.00	21.00	9.00	15.00	6.38	5.33	18.33	9.60	7.86
Anthropology	42.88	23.33	8.67	10.00	6.00	-	13.50	7.17	6.50	-	7.00	5.50
Economics	55.77	23.00	12.22	22.56	12.00	1.67	12.62	10.50	3.33	-	0.00	2.25
Geology	25.00	32.50	5.00	-	22.50	-	18.33	6.50	6.00	-	9.00	-
History	29.52	8.74	6.27	19.51	9.97	6.85	13.23	5.44	5.18	6.58	5.55	2.46
Political Science	42.71	10.17	3.67	16.00	10.00	8.00	6.18	2.50	2.75	28.50	4.67	2.67
Sociology	84.83	21.90	3.00	27.00	10.33	5.00	12.00	4.57	3.44	0.00	1.33	0.50

Table 8
Average Number of Articles per Faculty Member, 1989

	Research			Doctoral			Comprehensive			Liberal Arts		
	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst
Agriculture	61.53	18.13	16.67	45.00	22.90	7.00	10.40	17.00	2.00	-	-	-
Medical Technology	19.67	14.75	2.33	35.67	11.75	3.00	8.00	0.00	1.00	-	-	-
Architecture	26.00	7.93	3.00	18.25	14.33	13.50	-	-	-	-	-	2.00
Biology	67.09	35.47	15.29	45.70	19.00	15.57	13.59	8.06	9.67	19.80	13.23	8.31
Business/Management	37.86	30.55	5.65	29.32	10.25	5.83	8.88	7.86	3.82	13.80	3.10	1.14
Communication Arts	37.33	18.60	7.92	18.62	8.30	5.38	13.33	3.56	2.78	20.17	1.33	0.50
Computer Science	47.00	19.33	9.64	25.46	17.33	7.67	12.00	2.86	0.50	12.50	3.50	1.86
Economics	32.91	16.43	7.13	32.40	8.73	3.83	14.75	7.88	2.00	23.56	5.50	2.70
Education	46.80	21.53	11.33	27.08	13.73	10.20	13.00	7.29	3.20	7.63	2.96	3.71
Engineering	78.70	30.80	13.29	39.40	19.46	8.52	33.22	6.60	9.67	18.25	9.80	0.00
Fine Arts	12.74	4.91	3.92	13.17	5.00	4.60	4.31	4.97	1.75	3.75	3.59	1.59
Foreign Languages	30.48	14.56	5.25	24.45	11.18	5.56	7.26	2.57	2.56	20.35	3.45	5.56
Geography	58.33	18.25	8.00	34.33	30.11	10.00	27.33	7.50	0.50	6.00	18.00	4.00
Health	67.27	25.58	7.33	29.27	9.63	6.47	3.33	8.13	2.28	-	2.00	0.47
Home Economics	22.00	16.38	-	15.83	4.00	5.00	-	6.20	3.50	1.00	2.00	0.50
Humanities	29.42	13.39	9.14	33.52	12.47	5.46	15.37	7.33	3.64	13.16	26.96	5.23
Industrial Arts	-	4.00	-	17.00	1.00	0.00	4.50	0.00	-	-	-	-
Law	-	25.00	6.50	24.00	-	2.00	3.00	-	-	-	-	-
Library Science	39.00	64.00	5.00	74.00	3.00	8.00	-	9.00	6.00	2.00	-	0.00

Table 8
Average Number of Articles per Faculty Member, 1989

	Research			Doctoral			Comprehensive			Liberal Arts		
	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst	Prof	Assoc	Asst
Mathematics	41.59	18.75	11.11	31.67	6.70	3.64	10.75	6.40	1.86	11.32	3.79	2.57
Physical Education.	38.00	13.00	13.33	17.20	9.17	5.17	10.30	5.56	4.27	3.67	2.75	1.94
Physical Sciences	90.58	37.41	22.33	54.69	21.00	15.31	12.65	6.50	9.18	28.42	15.00	7.09
Psychology	73.45	25.44	18.00	31.48	23.46	6.00	8.61	5.07	5.89	21.96	7.84	5.40
Public Affairs	69.75	20.67	-	21.00	10.33	3.00	15.00	0.00	-	-	-	-
Social Sciences	45.67	20.39	6.59	25.45	14.79	5.89	14.38	5.38	2.20	19.89	9.81	3.38