

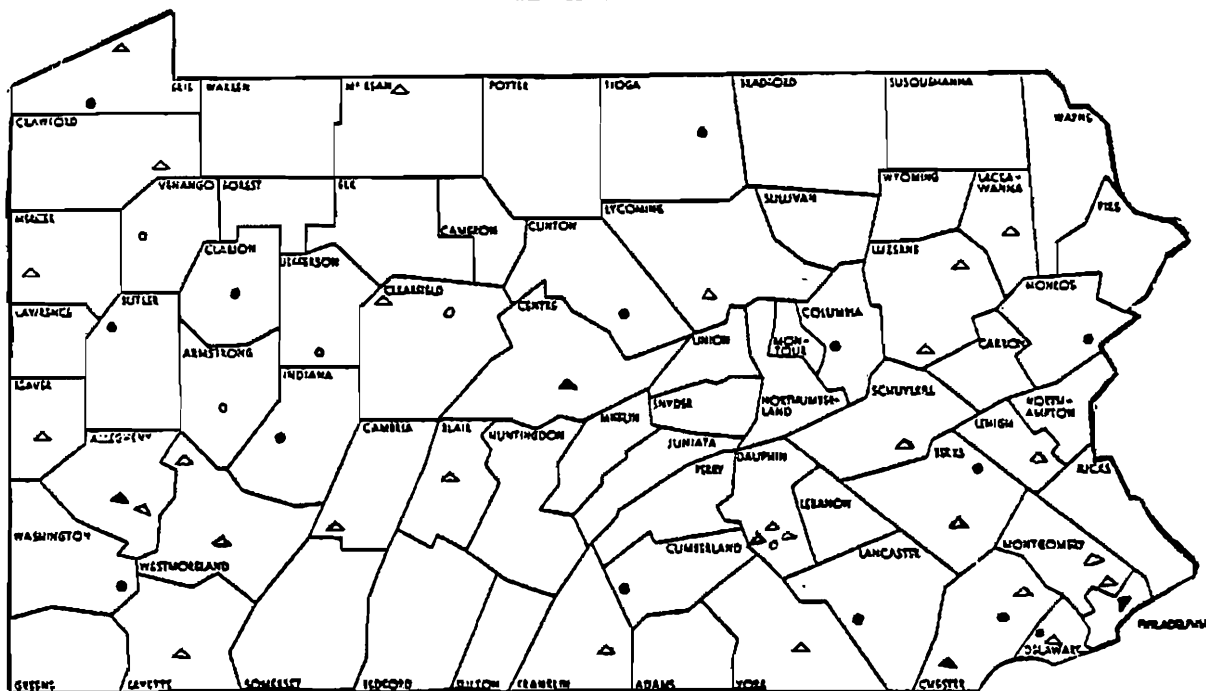
# **INSTRUCTIONAL OUTPUT AND FACULTY SALARY COSTS OF THE STATE-RELATED AND STATE-OWNED UNIVERSITIES**

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**Analysis of 1992-93 Data  
Reported Under 1992 Appropriations Acts  
and Public School Code**

**Staff Report  
General Assembly of the Commonwealth of Pennsylvania  
JOINT STATE GOVERNMENT COMMISSION  
108 Finance Building  
Harrisburg, Pennsylvania 17120  
February 1994**

**STATE-RELATED AND STATE-OWNED UNIVERSITIES  
AND BRANCH CAMPUSES**



- |                                      |                                    |
|--------------------------------------|------------------------------------|
| ▲ State-related university           | ● State-owned university           |
| △ Branch of State-related university | ○ Branch of State-owned university |

State-Related Universities

- |  |  |
|--|--|
| Lincoln (Chester)                      | Penn State (Centre) (cont.)                    |
| Penn State (Centre)                    | Pennsylvania College of Technology (Lycoming)* |
| Allentown Campus (Lehigh)              | Schuylkill Campus (Schuylkill)                 |
| Altoona Campus (Blair)                 | Shenango Valley Campus (Mercer)                |
| Beaver Campus (Beaver)                 | Wilkes-Barre Campus (Luzerne)                  |
| Behrend College (Eric)                 | Worthington Scranton Campus (Lackawanna)       |
| Berks Campus (Berks)                   | York Campus (York)                             |
| Capitol Campus (Dauphin)               | Pittsburgh (Allegheny)                         |
| Delaware County Campus (Delaware)      | Bradford Campus (McKean)                       |
| DuBois Campus (Clearfield)             | Greensburg Campus (Westmoreland)               |
| Fayette Campus (Fayette)               | Johnstown Campus (Cambria)                     |
| Great Valley Graduate Center (Chester) | Titusville Campus (Crawford)                   |
| Hazleton Campus (Luzerne)              | Temple (Philadelphia)                          |
| Hershey Medical Center (Dauphin)       | Ambler Campus (Montgomery)                     |
| McKeesport Campus (Allegheny)          | Harrisburg Center (Dauphin)                    |
| Mont Alto (Franklin)                   |  |
| New Kensington (Westmoreland)          |  |
| Ogontz Campus (Montgomery)             |  |

\*Not included in this report.

State-Owned Universities

- |                                 |   |
|---------------------------------|---|
| Bloomsburg (Columbia)           | Kutztown (Berks)                          |
| California (Washington)         | Lock Haven (Clinton)                      |
| Cheyney (Delaware)              | Clearfield Campus (Clearfield)            |
| Clarion (Clarion)               | Mansfield (Tioga)                         |
| Venango Campus (Venango)        | Millersville (Lancaster)                  |
| East Stroudsburg (Monroe)       | Shippensburg (Cumberland)                 |
| Edinboro (Erie)                 | Slippery Rock (Butler)                    |
| Indiana (Indiana)               | West Chester (Chester)                    |
| Armstrong Campus (Armstrong)    | University Center at Harrisburg (Dauphin) |
| Punxsutawney Campus (Jefferson) |   |

## FOREWORD

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This 21st annual report summarizes the instructional outputs, instructional faculty salary costs, tuitions and Commonwealth appropriations for Pennsylvania's State-related and State-owned universities--the Commonwealth's public universities.

The report is based primarily on data reported by Pennsylvania's public universities to the Pennsylvania General Assembly, as required by the annual appropriation acts for the State-related universities, and by the Public School Code for the State-owned universities. These data include student credit hours and degrees, and faculty salaries and workweek activities. The report includes instructional outputs and instructional faculty salaries. The report does not include noninstructional faculty salaries. Therefore, average faculty salaries in the report cannot be compared to average faculty salaries from other sources. In addition, since the data do not include nonsalary expenditures, the report does not summarize total instructional costs for the universities. Data on tuitions and Commonwealth instructional appropriations from other sources supplement the university data.

Levels of data for 1992-93 and data trends for the past five years are presented. Student credit-hour and salary data are combined for the computation of a measure of cost efficiency: instructional faculty salary cost per full-time equivalent student. Tuition and appropriation data are combined for the computation of a measure of cost sharing: the percentage of total instructional revenues covered by instructional appropriations.

The data are intended for use by a variety of persons or groups: by legislators for making appropriation decisions; by university administrators for evaluating policies related to faculty outputs, salaries and workloads;

and by Pennsylvania citizens, for making informed judgments about the levels and shares of costs related to public higher education in the Commonwealth.

For additional information or copies of this report, write to the Commission or telephone 717-787-4397.

Conrad C. M. Arensberg  
Counsel  
Joint State Government Commission

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## I. DATA HIGHLIGHTS

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1. In Fall 1992, a total of 587,977 full- and part-time students were enrolled in the 144 public and private colleges and universities in Pennsylvania. Of this total, 240,148 students (41 percent) were enrolled in the Commonwealth's public universities: 141,524 students (24 percent) in the 4 State-related universities, and 98,624 (17 percent) in the 14 State-owned universities. The main and branch campuses of Pennsylvania's public universities are shown on page ii. Compared to Fall 1991, overall student enrollments in all of Pennsylvania's colleges and universities increased by 1 percent, but in the Commonwealth's public universities decreased by almost 1 percent.<sup>1</sup>
2. During the 1992-93 school year, <sup>2</sup> over 6 million undergraduate and graduate student credit hours (SCH) were generated by the public universities. These SCH were the equivalent of 211,321 full-time students: 119,870 full-time equivalent (FTE) students (57 percent) for the State-related universities, and 91,451 (43 percent) for the State-owned universities.<sup>3</sup> (Table 1) FTE students at the public universities decreased by 1 percent from the previous year; the aggregate full- and part-time student mix was not altered appreciably. FTE students vary considerably by academic level at the individual universities. For Pittsburgh and

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<sup>1</sup>Pennsylvania Department of Education, Colleges and Universities Fall Enrollments, 1992.

<sup>2</sup>Unless otherwise noted, all data in this report apply to the indicated school year, which includes the summer term preceding the academic year, plus the fall and spring terms of the academic year. For example, the 1992-93 school year includes the summer and fall terms of 1992 plus the spring term of 1993.

<sup>3</sup>Full-time equivalent students are calculated by dividing undergraduate student credit hours by 30 and graduate student credit hours by 24.

Temple,<sup>4</sup> about three-quarters of the FTE students are undergraduates; both universities have first professional programs in dentistry and law. In contrast, the proportion of undergraduate FTE students is 86 percent for Lincoln, 90 percent for Penn State and 92 percent for the State-owned group. (Table 2) Likewise, the public universities offer diverse programs to students. Most of these universities continue to have large programs in business and education, in addition to letters and the social sciences. The State-owned universities have specialized program missions.<sup>5</sup> (Tables 3A through 3E)

3. During the 1992-93 school year, the public universities conferred 42,906 bachelor's and graduate degrees (not including medical degrees): 24,267 degrees (57 percent) by the State-related universities, and 18,639 (43 percent) by the State-owned universities. Total degrees increased by more than 2 percent from the preceding year.<sup>6</sup> (Table 4)
  
4. Over the past 5 years (since 1987-88), the number of public university FTE students has increased by 5 percent, while the Commonwealth's population of 18-to-24-year olds has decreased by 8 percent. The FTE student increase would appear to be attributable to a larger percentage of Pennsylvania's college-age population attending the public universities, plus an increase in the enrollment of older students.

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<sup>4</sup>Beginning in 1990-91 the University of Pittsburgh implemented a new Integrated Student Information System. As a result it was discovered that student credit hours (FTE students) in the law program were inadvertently overreported in previous years. Beginning with the summer session of 1988, Temple University introduced a new Core Curriculum; as a result undergraduate classroom and individual instruction student credit hours (FTE students), and student contact hours, are all lower. One- and five-year comparisons are made for Pittsburgh and Temple; however, consideration must be given to these structural changes in evaluating certain data changes.

<sup>5</sup>Tables 3A through 3E employ the Classification of Instructional Programs (CIP) taxonomy. The CIP taxonomy was introduced by the U.S. Department of Education's National Center for Education Statistics in 1981, and revised in 1985 and 1990. This report utilizes an aggregation of two-digit CIP, each of which corresponds to one or more academic departments or program areas within individual universities. The CIP groupings are used to facilitate comparisons between universities, given the large array of departments and program which exist in the Commonwealth's public universities.

<sup>6</sup>The public universities also award associate degrees. However, associate degrees are not included in this report.

5. In Fall 1992, 10,593 teaching and research faculty were employed full-time by Pennsylvania's public universities: 5,910 full-time faculty (56 percent) by the State-related universities and 4,683 (44 percent) by the State-owned universities.<sup>7</sup> The overall workweek reported by these faculty averaged 53.6 hours: 51.8 total hours for the State-related universities, and 55.8 total hours for the State-owned universities. Hours spent in undergraduate and graduate classroom and individual instruction contact with students averaged 8.6 per week for the State-related group, and 11.7 per week for the State-owned group. (Table 5) Since 1987-88, average total workweeks for both full-time faculty groups have increased slightly; average student contact hours have fallen by about one-quarter hour per week for the State-related group but have remained constant for the State-owned group.
  
6. During the 1992-93 school year, the full- and part-time instructional faculty employed by the public universities were the equivalent of 11,859 full-time faculty: 6,960 FTE instructional faculty (59 percent) for the State-related universities, and 4,899 (41 percent) for the State-owned universities.<sup>8</sup> The combined FTE instructional faculty was virtually unchanged from the previous year. The instructional salary for these faculty averaged \$39,900 and \$45,900 for the two public university groups, respectively.<sup>9</sup> The combined average instructional salary increased by 5 percent from

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<sup>7</sup>Faculty who are employed full-time by the public universities, and who are engaged in teaching, research or both, comprise the set of faculty whose workweek activities are reported by the universities, and summarized in table 5. Note that this is not the same set of faculty whose headcounts and instructional salaries are included in table 6.

<sup>8</sup>Full-time instructional faculty, plus the full-time equivalency of part-time instructional faculty, comprise the set of faculty whose instructional salaries are reported by the universities and summarized in table 6. Note that this is not the same set of faculty whose workweek activities are included in table 5.

<sup>9</sup>For fiscal year 1992, instructional faculty salaries comprised about 65 percent of total expenditures for "instruction" for the State-owned group, as reported in the Integrated Postsecondary Education Data System (IPEDS). IPEDS data provided by the Pennsylvania Department of Education. Note that this report does not include the noninstructional salaries of instructional faculty members. Therefore, average salaries cannot be compared to other sources.

the previous year.<sup>10</sup> The State-owned universities tend to utilize relatively more higher-ranked FTE faculty—professors and associate professors—in instruction than do the larger State-related universities. In contrast, Penn State, Pittsburgh and Temple provide a significant amount of instruction using instructors and nonranked persons (largely graduate teaching assistants); the lower instructional salaries of the unranked faculty tend to lower the average instructional salary for the State-related group relative to the State-owned group. (Table 6)

7. Since 1987–88, the average instructional salary for the FTE instructional faculty has increased by about \$9,000 (29 percent) for the State-related universities, and about \$11,400 (33 percent) for the State-owned universities. The relative increase in average instructional salary for the State-owned group has tended to widen the gap in average instructional salaries between the two groups of FTE faculty.
8. During the 1992–93 school year, the ratio of FTE students to FTE instructional faculty averaged 17.2 for the State-related universities (a one-year decrease of 2 percent), and 18.7 for the State-owned universities (a one-year decrease of nearly 1 percent). (Tables 1 and 6)
9. During the 1992–93 school year, the average instructional faculty salary costs per FTE student for the State-related university group were: undergraduate level, \$1,739, and master's level, \$3,706. For the State-owned group the FTE instructional salary costs for the same levels were \$2,370 and \$3,496, respectively. (Table 7) First professional FTE instructional salary costs averaged \$1,930 for Pittsburgh and \$3,167 for Temple; doctoral FTE instructional salary costs averaged \$10,988 for Penn State, \$11,847 for Pittsburgh

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<sup>10</sup>Caveat: Average instructional salaries are computed by dividing each university's total instructional salaries for each academic rank by the respective number of FTE instructional faculty. Therefore, changes in average instructional salaries do not necessarily correspond to general salary changes for all faculty members in a given university. Average instructional salary changes also reflect changes in the rank distribution of faculty.

and \$6,479 for Temple. Statistical analysis has shown that FTE instructional salary cost varies directly with FTE instructional faculty salaries, and inversely with both class (section) average sizes and the number of classes (sections) offered per course. Since 1987-88, undergraduate FTE instructional salary costs have increased by about 31 percent for the State-related group, and by almost 37 percent for the State-owned group. FTE instructional salary cost also varies considerably by program area. (Table 8A through 8E)

10. Regression analysis applied to 1992-93 lower and upper division undergraduate FTE instructional salary cost, class size and instructional faculty salary data for the public universities indicates that the total cost savings to be expected from decreasing average FTE instructional faculty salaries by \$1,000 at these universities would be almost \$11 million, and from increasing average class (section) sizes by one student over \$13 million.<sup>11</sup>
11. The average undergraduate class (section) size is 21 for Lincoln, 30 for Penn State, 29 for Pittsburgh, 25 for Temple, and 23 for the State-owned universities. Since 1987-88, average undergraduate class sizes have declined slightly. (Table 9)
12. During the 1992-93 school year, the tuition and required fees for full-time in-State undergraduate students averaged \$4,377 for the State-related universities, and \$3,236 for the State-owned universities. These tuition and fees increased by 6 percent for the State-related group and 7 percent for the State-owned group over the previous year. For Lincoln, tuition and fees for nonresident full-time undergraduates exceeded those for residents by about 48 percent, and for full-time graduate students by about 43 percent. For Penn State and Pittsburgh, tuition and fees for nonresident full-time undergraduates and graduate students were approximately double those for residents. For Temple, the out-of-state premium was about 84 percent for full-time undergraduates and 26 percent for full-time graduate students. For the State-owned group, tuition

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<sup>11</sup>The details of the regressions used to derive these results are not included in this report. These details are available from the staff of the Joint State Government Commission. The model for the regression equation is given in the Appendix.

and fees for nonresident undergraduates were more than double those for residents; nonresident graduate students paid 47 percent more than Pennsylvania residents. (Table 10)

13. For fiscal year 1992–93, the public universities collected over a billion dollars in tuition and fee revenues. These revenues per FTE student averaged \$3,840 for Lincoln, \$5,650 for Penn State, \$6,760 for Pittsburgh, \$6,090 for Temple, and \$3,560 for the State–owned universities. Since 1987–88, per student revenues have grown by about 51 percent at the public universities. (Table 11)
  
14. For fiscal year 1992–93, the Commonwealth's General Fund educational and general (instructional) appropriations to the public universities for instruction totaled \$801 million: \$446 million (56 percent) to the State–related universities and \$355 million (44 percent) to the State–owned universities.<sup>12, 13</sup> These appropriations represent 85 percent of the total appropriations made specifically for instruction to the public universities and community colleges, and almost 77 percent of the total appropriations made for all purposes to all public and private colleges and universities in the Commonwealth. Total instructional appropriations were unchanged for the State–related universities and decreased by over 3 percent for the State–owned universities from the previous year. The average appropriation per FTE student was \$3,720 for the State–related group (a one–year increase of 1 percent) and \$3,880 for the State–owned group (a one–year decrease of 2 percent). (Table 12) In addition to the instructional appropriations made directly to the public universities, monies appropriated from the General Fund to the Pennsylvania Higher Education Assistance Agency totaling almost \$72 million went to students at the public universities through various PHEAA grant and matching–fund programs.<sup>14</sup>

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<sup>12</sup>The Commonwealth appropriation to the State System of Higher Education given here does not include amounts appropriated for either the Board of Governors/Chancellor's Office or the System Reserve.

<sup>13</sup>Over the years, educational and general appropriations have been expanded to include expenditure categories which previously had been separate line items in the General Fund Budget. In this report, total educational and general appropriations are regarded as "instructional" and used for comparisons, because these appropriations are available to the public universities for instructional purposes.

<sup>14</sup>Data furnished by the Pennsylvania Higher Education Assistance Agency.

15. For 1992-93 total instructional revenues per FTE student--tuition and fees plus instructional appropriations--averaged \$9,710 for the State-related universities and \$7,440 for the State-owned universities. (Table 13) Per student instructional revenues for the State-related universities exceeded those for the State-owned universities, even though per student instructional faculty salary costs for the State-related group were less than those for the State-owned group. (Table 7) These results are apparently related to the State-related group's greater emphasis on departmental research and their use of graduate teaching assistants and other nonranked faculty to generate significant numbers of student credit hours. The analysis of total instructional costs is beyond the scope of this report.
  
16. During the 1992-93 school year, on an FTE student basis, the ratio of Commonwealth instructional appropriations to tuition and fee revenues plus Commonwealth instructional appropriations averaged 38 percent for the State-related university group, and 52 percent for the State-owned university group. (Table 13) Since 1987-88, on an FTE student basis, average direct Commonwealth instructional appropriations to the public universities have increased by a lesser percentage than average tuition and fee revenues collected by these institutions. Hence, the percentage of total instructional revenues from Commonwealth appropriations has decreased, causing the student share of instructional cost to increase for all of the public universities.





## II. CURRENT YEAR DATA

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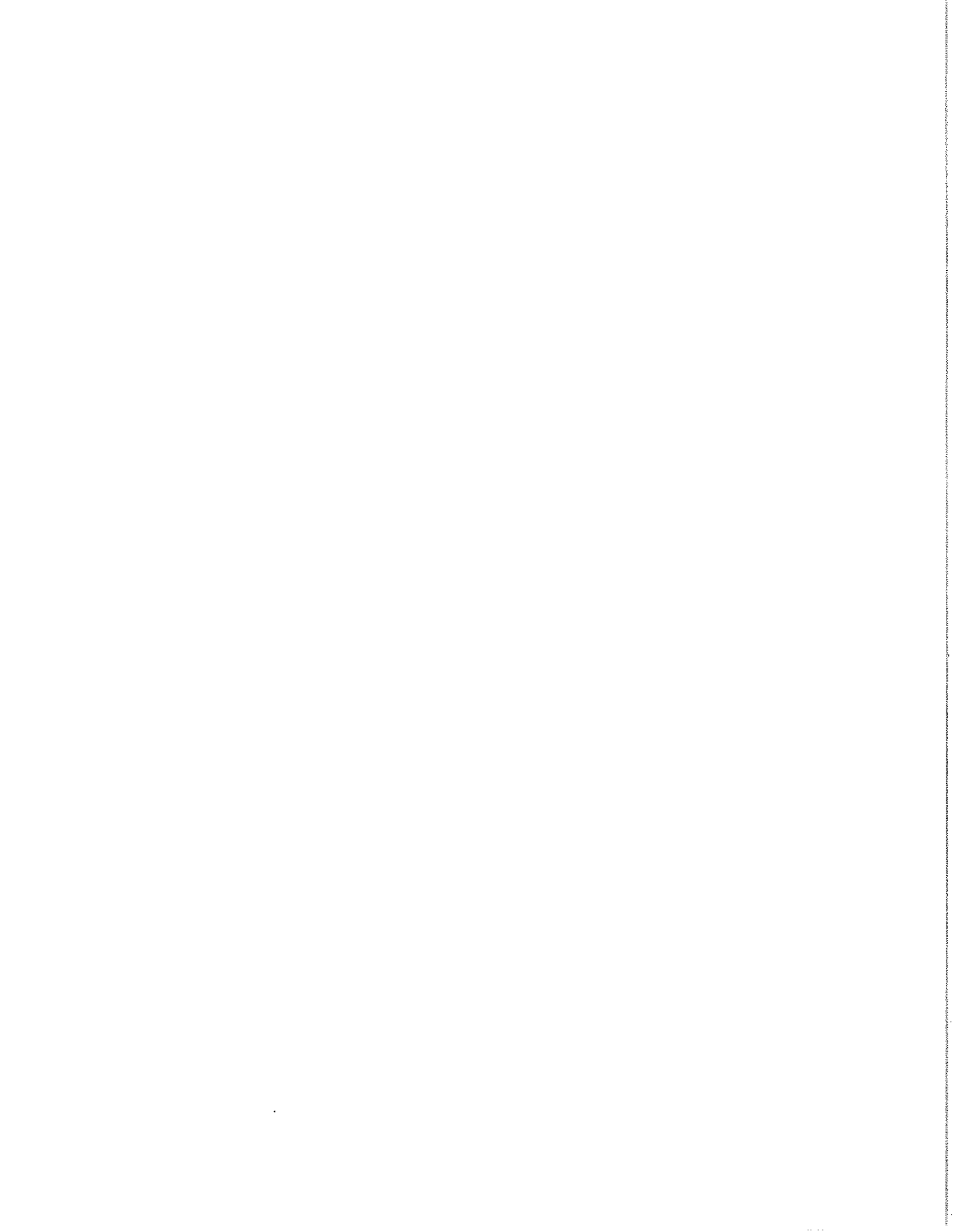


Table 1

**FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC LEVEL<sup>1</sup>**  
**1992-93, CHANGE FROM 1991-92 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1987-88 to 1992-93)**

University	Total				Undergraduate				Graduate <sup>2</sup>			
	FTE students	One-year change	Percentage change		FTE students	One-year change	Percentage change		FTE students	One-year change	Percentage change	
			One-year	Five-year			One-year	Five-year			One-year	Five-year
			change	average			change	average			change	average
<b>State-related</b>												
Lincoln	1,531	-9	-1%	3%	1,321	-16	-1%	4%	210	7	3%	2%
Penn State	63,161	-376	-1	1	56,739	-485	-1	1	6,422	109	2	3
Pittsburgh	29,405	-87	a	a	21,638	-459	-2	a	7,767	372	5	1
Temple	25,773	-548	-2	a	18,910	-707	-4	-1	6,863	159	2	4
<b>Total</b>	<b>119,870</b>	<b>-1,020</b>	<b>-1</b>	<b>1</b>	<b>98,608</b>	<b>-1,667</b>	<b>-2</b>	<b>a</b>	<b>21,262</b>	<b>647</b>	<b>3</b>	<b>2</b>
<b>State-owned</b>												
Bloomsburg	7,379	-36	a	2	6,984	18	a	2	395	-54	-12	a
California	6,044	-198	-3	2	5,307	-274	-5	1	737	76	11	12
Cheyney	1,423	34	2	-1	1,247	73	6	-2	176	-39	-18	10
Clarion	5,863	-165	-3	a	5,546	-113	-2	a	317	-52	-14	-4
East Stroudsburg	5,251	-58	-1	2	4,645	0	0	2	606	-58	-9	2
Edinboro	7,637	-14	a	5	7,231	-2	a	5	406	-12	-3	3
Indiana	13,696	-559	-4	1	12,541	-575	-4	a	1,155	16	1	6
Ruthtown	6,926	-200	-3	2	6,524	-200	-3	2	402	0	0	6
Lock Haven	3,669	70	2	6	3,661	62	2	6	8	8	b	na
Mansfield	3,142	-7	a	4	2,953	-7	a	4	189	0	0	6
Millersville	6,919	-40	-1	1	6,093	-75	-1	1	826	35	4	3
Shippensburg	6,096	-101	-2	a	5,597	-98	-2	1	499	-3	-1	0
Slippery Rock	7,358	-138	-2	2	6,738	-128	-2	1	620	-10	-2	24
West Chester	10,048	-171	-2	a	9,003	-132	-1	a	1,045	-39	-4	3
<b>Total</b>	<b>91,451</b>	<b>-1,583</b>	<b>-2</b>	<b>2</b>	<b>84,070</b>	<b>-1,451</b>	<b>-2</b>	<b>1</b>	<b>7,381</b>	<b>-132</b>	<b>-2</b>	<b>4</b>
<b>All universities</b>	<b>211,321</b>	<b>-2,603</b>	<b>-1</b>	<b>1</b>	<b>182,678</b>	<b>-3,118</b>	<b>-2</b>	<b>1</b>	<b>28,643</b>	<b>515</b>	<b>2</b>	<b>3</b>

1. Data for each year represent the summer term preceding the academic year plus the academic year. Full-time equivalent students are calculated by dividing undergraduate student credit hours by 30 and graduate student credit hours by 24.

2. In addition to master's level, graduate for Penn State, Pittsburgh, Temple and Indiana includes first-professional (excluding medical schools) and/or doctor's levels.

a. Rounds to less than 1 percent.

b. The graduate program was not included prior to 1992-93.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1988 to 1993.

Table 2

FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>  
 1992-93, CHANGE FROM 1991-92 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1987-88 to 1992-93)

University	Lower division			Upper division			Master's			First professional <sup>2</sup> and doctor's		
	FTE students	Percentage change		FTE students	Percentage change		FTE students	Percentage change		FTE students	Percentage change	
		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average
<b>State-related</b>												
Lincoln	1,000	-3%	3%	321	5%	9%	210	3%	2%	na	na	na
Penn State	36,387	1	-1	20,352	-4	3	3,531	4	4	2,891	-1%	1%
Pittsburgh	14,356	-2	1	7,282	-2	a	5,376	6	3	2,391	2	-3
Temple	8,743	-7	-3	10,167	-1	2	3,623	4	6	3,240	1	2
Total	60,486	-1	-1	38,122	-3	2	12,740	5	4	8,522	1	a
<b>State-owned</b>												
Bloomsburg	4,774	-2	1	2,210	4	3	395	-12	a	na	na	na
California	3,645	-5	1	1,662	-4	1	737	11	12	na	na	na
Cheyney	940	12	-3	307	-7	a	176	-18	10	na	na	na
Clarion	3,864	-2	-1	1,682	-1	2	317	-14	-4	na	na	na
East Stroudsburg	3,323	-2	1	1,322	5	7	606	-9	2	na	na	na
Edinboro	4,985	-2	5	2,246	5	7	406	-3	3	na	na	na
Indiana	8,327	-6	a	4,214	-1	1	1,155	1	6	b	b	b
Kutztown	4,150	-6	a	2,374	2	6	402	0	6	na	na	na
Lock Haven	2,676	3	7	985	a	4	8	c	na	na	na	na
Mansfield	2,025	-2	3	928	4	8	189	0	6	na	na	na
Millersville	4,017	-5	-2	2,076	8	7	826	4	3	na	na	na
Shippensburg	3,973	-3	a	1,624	1	2	499	-1	0	na	na	na
Slippery Rock	4,716	-3	a	2,022	1	5	620	-2	24	na	na	na
West Chester	5,841	-3	-2	3,162	1	4	1,045	-4	3	na	na	na
Total	57,256	-3	a	26,814	2	4	7,381	-2	4	na	na	na
All universities	117,742	-2	a	64,936	-1	3	20,121	2	4	8,522	1	a

1. Data for each year represent the summer term preceding the academic year plus the academic year. Full-time equivalent students are calculated by dividing undergraduate student credit hours by 30 and graduate student credit hours by 24.

2. Excludes medical school data.

a. Rounds to less than 1 percent.

b. Included in master's level.

c. The master's program was not included prior to 1992-93.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1988 to 1993.

Table 3A

LINCOLN UNIVERSITY  
 NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS<sup>1</sup>  
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION<sup>2</sup>  
 1992-93

CIP Classification	Total	Undergraduate				Graduate <sup>3</sup>	Percent- age of total
		Percent- age of total	Lower division	Percent- age of total	Upper division		
Agriculture	--	--	--	--	--	--	--
Architecture and environmental design	--	--	--	--	--	--	--
Area and ethnic studies	--	--	--	--	--	--	--
Business	102	7%	32	3%	70	22%	--
Communications	--	--	--	--	--	--	--
Computer and information sciences	--	--	--	--	--	--	--
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--
Education	244	16	195	20	49	15	--
Engineering	--	--	--	--	--	--	--
Foreign languages	70	5	57	6	13	4	--
Health	--	--	--	--	--	--	--
Home economics	--	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--	--
Law	--	--	--	--	--	--	--
Letters	190	12	159	16	31	10	--
Liberal/general studies	--	--	--	--	--	--	--
Library and archival sciences	--	--	--	--	--	--	--
Life sciences	93	6	83	8	10	3	--
Mathematics	172	11	164	16	8	2	--
Military sciences	--	--	--	--	--	--	--
Multi/interdisciplinary studies	7	a	4	a	3	1	--
Parks and recreation	--	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--	--
Philosophy, religion and theology	62	4	54	5	8	2	--
Physical sciences	91	6	78	8	13	4	--
Psychology	60	4	36	4	24	7	--
Public affairs and protective services	210	14	--	--	--	--	210
Social sciences	230	15	138	14	92	29	--
Trade and industrial	--	--	--	--	--	--	--
Visual and performing arts	--	--	--	--	--	--	--
Other	--	--	--	--	--	--	--
<b>Total<sup>4</sup></b>	<b>1,531</b>	<b>100</b>	<b>1,000</b>	<b>100</b>	<b>321</b>	<b>100</b>	<b>210</b>

1. Data represent the summer term preceding the academic year plus the academic year. Full-time equivalent students are calculated by dividing undergraduate student credit hours by 30 and graduate student credit hours by 24.

2. Classification of Instructional Programs, U.S. Department of Education, National Center for Education Statistics.

3. Graduate includes master's level only.

4. Because of rounding, CIP detail may not sum to total.

a. Rounds to less than 1 percent.

SOURCE: Reports provided by Lincoln University, 1993.

Table 3B

PENNSYLVANIA STATE UNIVERSITY  
 NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS<sup>1</sup>  
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION<sup>2</sup>  
 1992-93

CIP Classification	Total	Undergraduate				Percent- age of graduate <sup>3</sup>	Percent- age of total	
		Percent- age of total	Lower division	Percent- age of total	Upper division			
Agriculture	934	1%	206	1%	595	3%	133	2%
Architecture and environmental design	470	1	263	1	197	1	10	a
Area and ethnic studies	489	1	316	1	152	1	21	a
Business	7,015	11	2,285	6	3,849	19	881	14
Communications	817	1	314	1	476	2	27	a
Computer and information sciences	1,274	2	978	3	219	1	77	1
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	4,958	8	1,361	4	1,858	9	1,739	27
Engineering	5,639	9	1,507	4	3,026	15	1,106	17
Foreign languages	2,242	4	1,709	5	425	2	108	2
Health	973	2	210	1	638	3	125	2
Home economics	1,444	2	935	3	378	2	131	2
Industrial arts	--	--	--	--	--	--	--	--
Law	--	--	--	--	--	--	--	--
Letters	5,877	9	3,978	11	1,642	8	257	4
Liberal/general studies	400	1	318	1	71	a	11	a
Library and archival sciences	7	a	3	a	4	a	--	--
Life sciences	3,449	5	2,596	7	659	3	194	3
Mathematics	5,719	9	4,885	13	663	3	171	3
Military sciences	87	a	48	a	39	a	--	--
Multi/interdisciplinary studies	1,990	3	1,182	3	686	3	122	2
Parks and recreation	221	a	50	a	152	1	19	a
Personal and social development	--	--	--	--	--	--	--	--
Philosophy, religion and theology	1,017	2	833	2	147	1	37	1
Physical sciences	5,048	8	3,909	11	633	3	506	8
Psychology	2,039	3	1,319	4	560	3	160	2
Public affairs and protective services	915	1	161	a	566	3	188	3
Social sciences	6,539	10	4,440	12	1,795	9	304	5
Trade and industrial	319	1	319	1	b	a	--	--
Visual and performing arts	3,278	5	2,263	6	921	5	94	1
Other	--	--	--	--	--	--	--	--
<b>Total<sup>4</sup></b>	<b>63,161</b>	<b>100</b>	<b>36,387</b>	<b>100</b>	<b>20,352</b>	<b>100</b>	<b>6,422</b>	<b>100</b>

1. Data represent the summer term preceding the academic year plus the academic year. Full-time equivalent students are calculated by dividing undergraduate student credit hours by 30 and graduate student credit hours by 24.

2. Classification of Instructional Programs, U.S. Department of Education, National Center for Education Statistics.

3. Graduate includes master's and/or doctor's levels, and excludes medical school data.

4. Because of rounding, CIP detail may not sum to total.

a. Rounds to less than 1 percent.

b. Rounds to less than one full-time equivalent student.

SOURCE: Reports provided by Pennsylvania State University, 1993.

Table 3C

UNIVERSITY OF PITTSBURGH  
NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS<sup>1</sup>  
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION<sup>2</sup>  
1992-93

CIP Classification	Total	Undergraduate			Percent- age of graduate <sup>3</sup>	Percent- age of total		
		Percent- age of total	Lower division	Upper division				
Agriculture	--	--	--	--	--	--		
Architecture and environmental design	--	--	--	--	--	--		
Area and ethnic studies	130	a	81	1%	47	2	a	
Business	2,344	8%	238	2	794	11	1,312	17%
Communications	100	a	24	a	30	a	46	1
Computer and information sciences	959	3	558	4	168	2	233	3
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	1,974	7	307	2	431	6	1,236	16
Engineering	1,688	6	445	3	732	10	511	7
Foreign languages	1,490	5	1,012	7	370	5	108	1
Health	2,739	9	298	2	1,030	14	1,411	18
Home economics	44	a	1	a	41	1	2	a
Industrial arts	--	--	--	--	--	--	--	--
Law	855	3	--	--	--	--	855	11
Letters	3,147	11	2,045	14	898	12	204	3
Liberal/general studies	--	--	--	--	--	--	--	--
Library and archival sciences	259	1	--	--	10	a	249	3
Life sciences	1,117	4	795	6	253	3	69	1
Mathematics	1,685	6	1,390	10	214	3	81	1
Military sciences	8	a	4	a	4	a	--	--
Multi/interdisciplinary studies	199	1	184	1	12	a	3	a
Parks and recreation	--	--	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--	--	--
Philosophy, religion and theology	878	3	671	5	128	2	79	1
Physical sciences	2,201	7	1,830	13	146	2	225	3
Psychology	1,491	5	1,126	8	260	4	105	1
Public affairs and protective services	1,321	4	150	1	422	6	749	10
Social sciences	3,661	12	2,317	16	1,114	15	230	3
Trade and industrial	--	--	--	--	--	--	--	--
Visual and performing arts	1,119	4	879	6	179	2	61	1
Other	--	--	--	--	--	--	--	--
<b>Total<sup>4</sup></b>	<b>29,405</b>	<b>100</b>	<b>14,356</b>	<b>100</b>	<b>7,282</b>	<b>100</b>	<b>7,767</b>	<b>100</b>

1. Data represent the summer term preceding the academic year plus the academic year. Full-time equivalent students are calculated by dividing undergraduate student credit hours by 30 and graduate student credit hours by 24.

2. Classification of Instructional Programs, U.S. Department of Education, National Center for Education Statistics.

3. Graduate includes master's, first-professional (excluding medical school) and/or doctor's levels.

4. Because of rounding, CIP detail may not sum to total.

a. Rounds to less than 1 percent.

SOURCE: Reports provided by University of Pittsburgh, 1993.

Table 3D

TEMPLE UNIVERSITY  
 NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS<sup>1</sup>  
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION<sup>2</sup>  
 1992-93

CIP Classification	Total	Undergraduate				Graduate <sup>3</sup>	Percent- age of total	
		Percent- age of total	Lower division	Percent- age of total	Upper division			
Agriculture	64	a	31	a	33	a	b	a
Architecture and environmental design	306	1%	92	1%	213	2%	1	a
Area and ethnic studies	348	1	153	2	128	1	67	1%
Business	2,813	11	532	6	1,565	15	716	10
Communications	844	3	240	3	468	5	136	2
Computer and information sciences	426	2	114	1	196	2	116	2
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	2,576	10	501	6	1,032	10	1,043	15
Engineering	538	2	113	1	350	3	75	1
Foreign languages	786	3	391	4	340	3	55	1
Health	2,305	9	88	1	893	9	1,324	19
Home economics	--	--	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--	--	--
Law	1,745	7	153	2	155	2	1,437	21
Letters	1,957	8	1,191	14	650	6	116	2
Liberal/general studies	721	3	484	6	208	2	29	a
Library and archival sciences	--	--	--	--	--	--	--	--
Life sciences	640	2	334	4	253	2	53	1
Mathematics	1,620	6	1,008	12	489	5	123	2
Military sciences	6	a	3	a	3	a	--	--
Multi/interdisciplinary studies	--	--	--	--	--	--	--	--
Parks and recreation	224	1	40	a	101	1	83	1
Personal and social development	--	--	--	--	--	--	--	--
Philosophy, religion and theology	463	2	205	2	173	2	85	1
Physical sciences	1,171	5	647	7	423	4	101	1
Psychology	1,036	4	367	4	374	4	295	4
Public affairs and protective services	792	3	151	2	288	3	353	5
Social sciences	2,820	11	1,255	14	1,207	12	358	5
Trade and industrial	--	--	--	--	--	--	--	--
Visual and performing arts	1,574	6	652	7	626	6	296	4
Other	--	--	--	--	--	--	--	--
<b>Total<sup>4</sup></b>	<b>25,773</b>	<b>100</b>	<b>8,743</b>	<b>100</b>	<b>10,167</b>	<b>100</b>	<b>6,863</b>	<b>100</b>

1. Data represent the summer term preceding the academic year plus the academic year. Full-time equivalent students are calculated by dividing undergraduate student credit hours by 30 and graduate student credit hours by 24.

2. Classification of Instructional Programs, U.S. Department of Education, National Center for Education Statistics.

3. Graduate includes master's, first-professional (excluding medical school) and/or doctor's levels.

4. Because of rounding, CIP detail may not sum to total.

a. Rounds to less than 1 percent.

b. Rounds to less than one full-time equivalent student.

SOURCE: Reports provided by Temple University, 1993.



Table 3E

STATE-OWNED UNIVERSITIES  
 NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS<sup>1</sup>  
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION<sup>2</sup>  
 1992-93

CIP Classification	Total	Undergraduate					Graduate <sup>3</sup>	Percent- age of total
		Percent- age of total	Lower division	Percent- age of total	Upper division	Percent- age of total		
Agriculture	86	a	79	a	3	a	4	a
Architecture and environmental design	10	a	--	--	6	a	4	a
Area and ethnic studies	349	a	159	a	164	1%	26	a
Business	8,317	9%	2,984	5%	4,776	18	557	8%
Communications	2,313	3	1,203	2	1,005	4	105	1
Computer and information sciences	1,906	2	1,502	3	289	1	115	2
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	16,747	18	5,635	10	7,708	29	3,404	46
Engineering	317	a	86	a	196	1	35	a
Foreign languages	2,480	3	2,044	4	387	1	49	1
Health	2,650	3	865	2	1,359	5	426	6
Home economics	542	1	264	a	244	1	34	a
Industrial arts	546	1	200	a	171	1	175	2
Law	121	a	52	a	55	a	14	a
Letters	9,172	10	7,191	13	1,593	6	388	5
Liberal/general studies	200	a	188	a	12	a	--	--
Library and archival sciences	199	a	39	a	19	a	141	2
Life sciences	4,349	5	3,486	6	723	3	140	2
Mathematics	5,716	6	4,915	9	665	2	136	2
Military sciences	118	a	82	a	36	a	--	--
Multi/interdisciplinary studies	337	a	223	a	80	a	34	a
Parks and recreation	440	a	213	a	193	1	34	a
Personal and social development	652	1	507	1	109	a	36	a
Philosophy, religion and theology	1,832	2	1,639	3	178	1	15	a
Physical sciences	5,087	6	4,434	8	556	2	97	1
Psychology	9,555	6	3,440	6	1,401	5	714	10
Public affairs and protective services	1,447	2	685	1	677	3	85	1
Social sciences	13,423	15	10,158	18	2,861	11	404	5
Trade and industrial	32	a	14	a	18	a	--	--
Visual and performing arts	6,061	7	4,724	8	1,187	4	150	2
Other	464	1	255	a	152	1	57	1
<b>Total<sup>4</sup></b>	<b>91,451</b>	<b>100</b>	<b>57,256</b>	<b>100</b>	<b>26,814</b>	<b>100</b>	<b>7,381</b>	<b>100</b>

1. Data represent the summer term preceding the academic year plus the academic year. Full-time equivalent students are calculated by dividing undergraduate student credit hours by 30 and graduate student credit hours by 24.

2. Classification of Instructional Programs, U.S. Department of Education, National Center for Education Statistics.

3. Graduate includes master's level for all universities and doctor's level for Indiana.

4. Because of rounding, CIP detail may not sum to total.

a. Rounds to less than 1 percent.

SOURCE: Reports provided by the individual State-owned universities, 1993.

Table 4

DEGREES CONFERRED<sup>1</sup>  
 1992-93, CHANGE FROM 1991-92 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1987-88 to 1992-93)

University	Total				Bachelor's				Graduate <sup>2</sup>			
	Degrees	One-year change	Percentage change		Degrees	One-year change	Percentage change		Degrees	One-year change	Percentage change	
			One-year	Five-year			One-year	Five-year			One-year	Five-year
			change	average			change	average			change	average
<b>State-related</b>												
Lincoln	250	-42	-14%	a	188	-19	-9%	4%	62	-23	-27%	-7%
Penn State	11,452	12	a	4%	9,387	-8	a	4	2,065	20	1	4
Pittsburgh	6,761	230	4	2	4,185	210	5	2	2,576	20	1	a
Temple	5,804	-11	a	3	3,660	-12	a	3	2,144	1	a	4
<b>Total</b>	<b>24,267</b>	<b>189</b>	<b>1</b>	<b>3</b>	<b>17,420</b>	<b>171</b>	<b>1</b>	<b>3</b>	<b>6,847</b>	<b>18</b>	<b>a</b>	<b>2</b>
<b>State-owned</b>												
Bloomsburg	1,568	51	3	4	1,347	91	7	3	221	-40	-15	6
California	1,241	28	2	7	976	8	1	5	265	20	8	16
Chesney	238	-8	-3	4	151	3	2	-2	87	-11	-11	56
Clarion	1,146	-66	-5	2	972	-58	-6	2	174	-8	-4	2
East Stroudsburg	1,057	70	7	8	864	66	8	7	193	4	2	14
Edinboro	1,399	160	13	10	1,230	156	15	10	169	4	2	7
Indiana	2,756	108	4	2	2,293	52	2	2	463	56	14	3
Kutztown	1,440	71	5	9	1,204	42	4	7	236	29	14	27
Lock Haven	615	12	2	6	612	9	1	6	3	3	b	na
Mansfield	632	22	4	9	548	-3	-1	8	84	25	42	14
Millersville	1,438	89	7	3	1,266	104	9	2	172	-15	-8	8
Shippensburg	1,543	52	3	a	1,247	89	8	1	296	-37	-11	-3
Slippery Rock	1,478	103	7	5	1,311	139	12	5	167	-36	-18	13
West Chester	2,088	143	7	9	1,718	120	8	7	370	23	7	15
<b>Total</b>	<b>18,639</b>	<b>835</b>	<b>5</b>	<b>5</b>	<b>15,739</b>	<b>818</b>	<b>5</b>	<b>4</b>	<b>2,900</b>	<b>17</b>	<b>1</b>	<b>8</b>
<b>All universities</b>	<b>42,906</b>	<b>1,024</b>	<b>2</b>	<b>4</b>	<b>33,159</b>	<b>989</b>	<b>3</b>	<b>4</b>	<b>9,747</b>	<b>35</b>	<b>a</b>	<b>4</b>

1. Data for each year represent the summer term preceding the academic year plus the academic year.

2. Graduate includes master's at all universities, first professional (excluding medical schools) at Pittsburgh and Temple, and doctor's at Penn State, Pittsburgh, Temple and Indiana.

a. Rounds to less than 1 percent.

b. The graduate program was not included prior to 1992-93.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1988 to 1993.

Table 5

WORKWEEKS OF FULL-TIME EMPLOYED FACULTY BY TYPE OF ACTIVITY  
FALL 1992, AND PERCENTAGE CHANGE FROM FALL 1991

University	Full-time employed faculty <sup>1</sup>	Average weekly hours <sup>2</sup>											
		Student contact				Instruc- tional support <sup>3</sup>	Percent- age change	Research	Percent- age change	Other university service <sup>4</sup>	Percent- age change	Total work- week	Percent- age change
		Under- graduate	Percent- age change	Graduate	Percent- age change								
<b>State-related</b>													
Lincoln	77	9.7	-7%	1.1	120%	18.1	2%	8.4	-15%	10.5	7%	47.8	-1%
Penn State	2,947	6.7	0	1.8	0	19.5	0	17.2	1	7.1	-1	52.3	a
Pittsburgh	1,735	4.6	5	3.9	15	13.6	-10	18.0	2	10.6	-6	50.7	-2
Temple	1,151	5.0	2	3.9	26	17.8	-1	14.9	-4	11.7	2	53.3	a
Total	5,910	5.8	2	2.8	12	17.4	-3	16.8	0	9.0	-2	51.8	-1
<b>State-owned</b>													
Bloomsburg	359	11.1	5	.9	12	17.8	5	8.4	-10	17.5	-1	55.7	1
California	330	9.9	-3	1.2	9	16.7	-5	7.5	4	20.9	6	56.2	1
Cheyney	73	11.6	7	1.1	38	17.2	8	7.0	9	18.5	4	55.4	7
Clarion	341	10.7	7	.7	0	18.0	7	8.8	6	13.5	-11	51.7	1
East Stroudsburg	260	11.1	4	.9	0	17.9	5	9.1	1	16.3	0	55.3	3
Edinboro	383	12.3	-4	.7	17	17.7	-5	8.5	10	15.0	0	54.2	-1
Indiana	702	9.9	-1	1.2	0	17.2	2	9.3	-7	18.8	0	56.4	-1
Kutztown	345	11.5	1	.6	0	17.1	-2	8.7	12	16.6	2	54.5	2
Lock Haven	205	12.5	4	.1	b	17.7	2	7.3	6	15.9	-4	53.5	1
Mansfield	171	10.5	-4	.3	-40	20.2	-4	10.5	2	19.1	1	60.6	-2
Millersville	290	10.8	-5	.8	33	17.3	6	7.8	1	17.4	2	54.1	2
Shippensburg	310	9.7	0	.9	0	17.0	1	7.9	-1	16.5	0	52.0	0
Slippery Rock	366	11.0	2	.7	-12	19.4	5	11.1	12	17.4	1	59.6	4
West Chester	548	10.6	2	1.6	0	18.9	4	10.9	8	18.9	-4	60.9	2
Total	4,683	10.8	0	.9	0	17.8	2	9.0	3	17.3	-1	55.8	1
All universities	10,593	7.9	0	2.0	11	17.6	-1	13.6	1	12.5	-2	53.6	0

1. The number of full-time employed faculty represents those reported by each university for the fall term. Sabbatical and other on-leave faculty are not included.

2. Average calculated using the full-time employed faculty in the fall term who reported a complete workweek of 100 hours or less.

3. Includes course preparation and evaluation.

4. Includes public service, institutional support and student services.

a. Rounds to less than 1 percent.

b. The graduate program was not included prior to Fall 1992.

SOURCE: Reports provided by the individual universities, 1992 and 1993.

Table 6

AVERAGE INSTRUCTIONAL SALARIES OF FULL-TIME EQUIVALENT INSTRUCTIONAL FACULTY AND PERCENTAGE DISTRIBUTION BY RANK<sup>1</sup>  
1992-93  
(Dollars in thousands)

University	FTE instructional faculty		Average instructional salary		Professor		Associate professor		Assistant professor		Instructor		No rank <sup>2</sup>	
	Number	Percentage change	Amount	Percentage change	Average instructional salary	Percent- age of faculty	Average instructional salary	Percent- age of faculty	Average instructional salary	Percent- age of faculty	Average instructional salary	Percent- age of faculty	Average instructional salary	Percent- age of faculty
		1991-92 to 1992-93		1991-92 to 1992-93										
<b>State-related</b>														
Lincoln	95	-14%	\$29.8	16%	\$37.7	17%	\$33.9	21%	\$28.3	25%	\$23.6	15%	\$25.6	22%
Penn State	3,456	a	40.0	3	66.3	16	48.0	17	39.1	26	28.4	14	26.6	27
Pittsburgh	1,877	6	41.5	3	65.1	19	45.3	24	36.2	21	24.6	13	31.8	23
Temple	1,532	-1	38.2	6	58.5	26	45.7	21	36.9	16	19.1	13	21.3	24
Total	6,960	1	39.9	4	63.3	19	46.4	20	37.8	22	25.3	13	26.8	26
<b>State-owned</b>														
Bloomsburg	389	1	43.3	3	56.0	26	45.1	29	35.7	40	28.6	5	na	0
California	309	1	45.3	2	59.8	33	47.7	29	37.6	19	24.0	19	45.9	a
Cheyney	87	2	46.8	-1	58.1	27	45.6	46	40.1	14	37.5	7	31.6	6
Clarion	333	-4	45.6	5	58.8	30	47.4	28	37.8	30	28.0	12	39.4	a
East Stroudsburg	294	4	44.1	8	54.9	38	43.9	27	33.6	30	25.9	5	na	0
Edinboro	416	-5	44.4	10	56.8	31	46.3	21	36.6	40	29.7	8	na	0
Indiana	713	1	46.3	5	56.2	35	47.4	30	38.8	26	26.5	7	26.3	2
Kutztown	363	-4	47.9	10	59.6	33	48.5	30	38.5	31	29.8	6	71.3	a
Lock Haven	194	-3	44.6	3	60.8	20	49.4	30	37.5	34	31.4	15	0	1
Mansfield	175	-1	46.7	10	61.8	25	49.9	29	40.2	32	27.7	14	na	0
Millersville	355	-3	47.2	10	60.7	30	49.6	28	38.6	32	26.3	10	30.7	a
Shippensburg	311	-1	49.9	7	58.8	47	48.0	25	38.2	23	29.1	5	30.2	a
Slippery Rock	384	-1	47.3	12	58.4	34	45.9	26	39.4	34	33.9	6	68.3	a
West Chester	576	0	45.0	3	60.8	23	49.8	28	38.9	32	26.6	17	18.0	a
Total	4,899	-1	45.9	6	58.3	31	47.5	28	37.8	31	27.7	10	29.2	a
All universities	11,859	a	42.4	5	60.6	24	47.0	23	37.8	26	26.1	12	26.8	15

1. Average instructional salaries are calculated by dividing the total instructional salaries paid to all staff members in the respective ranks by their total full-time equivalency in the instructional function. One full-time equivalent faculty represents one full-time workload for two terms (one academic year). The summer term is treated as one term or one-half the academic year. Data for each year represent the summer term preceding the academic year plus the academic year.

2. The full-time equivalency of nonranked faculty members is based on the time spent in instruction by all nonranked personnel, including lecturers, administrators, librarians, research staff, graduate assistants and volunteers.

a. Rounds to less than 1 percent.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1992 and 1993.

Table 7

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>  
1992-93, CHANGE FROM 1991-92 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1987-88 to 1992-93)

University	Undergraduates						Master's					
	Lower division	Percentage change		Upper division	Percentage change		Total under-graduate	Percentage change		Total master's	Percentage change	
		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average
<b>State-related</b>												
Lincoln	\$1,533	3%	4%	\$2,719	-10%	2%	\$1,821	-1%	4%	\$2,062	15%	6%
Penn State	1,328	3	6	2,283	7	5	1,670	5	6	3,362	2	4
Pittsburgh	1,491	10	8	2,580	16	6	1,858	13	7	4,476	-1	5
Temple	1,454	11	4	2,108	11	5	1,805	11	5	2,994	13	2
<b>Total</b>	<b>1,388</b>	<b>6</b>	<b>6</b>	<b>2,296</b>	<b>9</b>	<b>5</b>	<b>1,739</b>	<b>8</b>	<b>6</b>	<b>3,706</b>	<b>3</b>	<b>4</b>
<b>State-owned</b>												
Bloomsburg	1,851	6	6	2,971	-2	5	2,206	3	6	3,687	28	11
California	1,790	5	6	3,095	12	6	2,198	8	6	3,151	-11	1
Cheyney	2,521	-6	2	4,126	6	-1	2,916	-3	2	2,477	4	-7
Clarion	2,034	7	10	3,603	-2	8	2,510	3	10	3,966	14	12
East Stroudsburg	2,039	14	7	3,605	6	4	2,484	12	7	2,338	17	11
Edinboro	1,879	4	4	3,289	2	9	2,317	4	6	4,198	13	8
Indiana	1,649	11	8	3,207	5	8	2,173	9	8	4,972	13	3
Kutztown	1,849	10	8	3,458	6	2	2,435	9	6	3,783	8	11
Lock Haven	1,955	3	4	3,404	-7	1	2,344	-2	2	9,969	b	na
Mansfield	1,822	8	9	4,098	7	2	2,537	9	6	3,482	15	-1
Millersville	2,036	5	9	3,123	8	2	2,406	8	7	2,542	2	3
Shippensburg	2,004	3	6	3,611	18	13	2,471	10	9	3,348	-8	4
Slippery Rock	2,009	13	8	3,499	13	6	2,456	13	8	2,624	11	-5
West Chester	2,117	8	12	3,081	4	10	2,456	7	12	3,653	-3	8
<b>Total</b>	<b>1,922</b>	<b>8</b>	<b>7</b>	<b>3,328</b>	<b>5</b>	<b>6</b>	<b>2,370</b>	<b>7</b>	<b>7</b>	<b>3,496</b>	<b>7</b>	<b>5</b>
<b>All universities</b>	<b>1,648</b>	<b>7</b>	<b>7</b>	<b>2,722</b>	<b>8</b>	<b>6</b>	<b>2,030</b>	<b>7</b>	<b>7</b>	<b>3,629</b>	<b>4</b>	<b>4</b>

1. The average instructional faculty salary cost per full-time equivalent student for each level is calculated as follows: the instructional salary for each rank is assigned by level according to the percentage distribution of the course (assigned) credits within each rank. The salary for each rank is summed by level and divided by total full-time equivalent students for that level. For individual instruction, one course (assigned) credit is attributed to every three student credit hours generated.

- a. Rounds to less than 1 percent.
- b. The master's program was not included prior to 1992-93.
- na. Not applicable.

SOURCE: Reports provided by the individual universities, 1988 to 1993.

Table 8A

LINCOLN UNIVERSITY  
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT<sup>1</sup>  
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION<sup>2</sup>  
 1992-93

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total under-graduate	Master's	First professional	Doctor's
Agriculture	--	--	--	--	--	--
Architecture and environmental design	--	--	--	--	--	--
Area and ethnic studies	--	--	--	--	--	--
Business	\$1,335	\$1,716	\$1,596	--	--	--
Communications	--	--	--	--	--	--
Computer and information sciences	--	--	--	--	--	--
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,620	2,928	1,883	--	--	--
Engineering	--	--	--	--	--	--
Foreign languages	2,212	4,982	2,726	--	--	--
Health	--	--	--	--	--	--
Home economics	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--
Law	--	--	--	--	--	--
Letters	1,567	2,675	1,748	--	--	--
Liberal/general studies	--	--	--	--	--	--
Library and archival sciences	--	--	--	--	--	--
Life sciences	1,174	4,765	1,560	--	--	--
Mathematics	1,334	4,935	1,501	--	--	--
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	2,386	3,661	2,932	--	--	--
Parks and recreation	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	943	1,825	1,057	--	--	--
Physical sciences	2,326	7,911	3,124	--	--	--
Psychology	1,351	2,523	1,820	--	--	--
Public affairs and protective services	--	--	--	\$2,062	--	--
Social sciences	1,396	2,016	1,644	--	--	--
Trade and industrial	--	--	--	--	--	--
Visual and performing arts	--	--	--	--	--	--
Other	--	--	--	--	--	--
<b>Total</b>	<b>1,533</b>	<b>2,719</b>	<b>1,821</b>	<b>2,062</b>	--	--

1. The average instructional faculty salary cost per full-time equivalent student for each level is calculated as follows: the instructional salary for each rank is assigned by level according to the percentage distribution of the course (assigned) credits within each rank. The salary for each rank is summed by level and divided by total full-time equivalent students for that level. For individual instruction, one course (assigned) credit is attributed to every three student credit hours generated.

2. Classification of Instructional Programs, U.S. Department of Education, National Center for Education Statistics.

SOURCE: Reports provided by Lincoln University, 1993.

Table 8B

PENNSYLVANIA STATE UNIVERSITY  
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT<sup>1</sup>  
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION<sup>2</sup>  
 1992-93

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total under-graduate	Master's	First professional <sup>3</sup>	Doctor's
Agriculture	\$1,459	\$2,359	\$2,127	\$5,199	--	\$10,129
Architecture and environmental design	1,355	4,422	2,669	13,032	--	14,226
Area and ethnic studies	1,272	2,737	1,747	5,021	--	14,348
Business	1,561	1,713	1,656	2,814	--	6,171
Communications	889	3,304	2,345	7,257	--	13,039
Computer and information sciences	1,957	2,432	2,044	5,656	--	11,452
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	877	2,278	1,686	1,220	--	5,671
Engineering	2,832	2,795	2,807	4,331	--	13,798
Foreign languages	1,377	2,801	1,661	6,158	--	12,089
Health	1,301	2,401	2,129	6,517	--	9,989
Home economics	501	2,245	1,003	2,476	--	10,017
Industrial arts	--	--	--	--	--	--
Law	--	--	--	--	--	--
Letters	1,407	1,950	1,622	3,403	--	12,282
Liberal/general studies	1,496	1,807	1,553	6,672	--	27,636
Library and archival sciences	987	591	739	--	--	--
Life sciences	960	1,925	1,156	9,258	--	12,767
Mathematics	1,369	2,527	1,507	4,875	--	14,856
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	1,375	2,496	1,786	2,576	--	10,053
Parks and recreation	1,286	1,672	1,576	10,438	--	16,339
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	1,143	2,541	1,353	8,516	--	15,782
Physical sciences	1,461	2,876	1,658	7,953	--	14,093
Psychology	595	2,009	1,016	3,557	--	8,311
Public affairs and protective services	1,245	1,877	1,737	3,462	--	10,317
Social sciences	1,025	2,123	1,341	5,322	--	12,187
Trade and industrial	3,001	13,318	3,016	--	--	--
Visual and performing arts	1,107	2,571	1,531	7,148	--	10,864
Other	--	--	--	--	--	--
<b>Total</b>	<b>1,328</b>	<b>2,283</b>	<b>1,670</b>	<b>3,362</b>	<b>--</b>	<b>10,988</b>

1. The average instructional faculty salary cost per full-time equivalent student for each level is calculated as follows: the instructional salary for each rank is assigned by level according to the percentage distribution of the course (assigned) credits within each rank. The salary for each rank is summed by level and divided by total full-time equivalent students for that level. For individual instruction, one course (assigned) credit is attributed to every three student credit hours generated.

2. Classification of Instructional Programs, U.S. Department of Education, National Center for Education Statistics.

3. Excludes medical school data.

SOURCE: Reports provided by Pennsylvania State University, 1993.

Table 8C

UNIVERSITY OF PITTSBURGH  
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT<sup>1</sup>  
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION<sup>2</sup>  
 1992-93

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total under-graduate	Master's	First professional <sup>3</sup>	Doctor's
Agriculture	--	--	--	--	--	--
Architecture and environmental design	--	--	--	--	--	--
Area and ethnic studies	\$1,281	\$2,865	\$1,862	\$3,697	--	\$1,227
Business	2,119	1,871	1,928	1,679	--	23,616
Communications	1,022	3,211	2,244	2,338	--	8,092
Computer and information sciences	1,554	3,122	1,915	3,627	--	13,056
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,008	2,854	2,086	2,722	--	6,916
Engineering	2,924	2,510	2,666	6,543	--	12,590
Foreign languages	1,777	2,270	1,909	6,336	--	12,677
Health	2,826	3,845	3,616	7,795	\$1,176	20,910
Home economics	12,979	3,022	3,190	13,138	--	--
Industrial arts	--	--	--	--	--	--
Law	--	--	--	9,388	2,492	--
Letters	1,594	1,673	1,618	4,047	--	10,976
Liberal/general studies	--	--	--	--	--	--
Library and archival sciences	--	1,917	1,917	2,455	--	11,043
Life sciences	1,370	3,028	1,770	12,019	--	17,318
Mathematics	1,659	3,526	1,908	5,318	--	17,179
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	1,224	3,863	1,391	3,210	--	--
Parks and recreation	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	1,356	2,639	1,561	8,255	--	21,642
Physical sciences	1,465	4,295	1,674	11,386	--	12,041
Psychology	821	2,331	1,104	8,147	--	10,449
Public affairs and protective services	1,250	1,774	1,637	4,177	--	8,216
Social sciences	1,288	2,270	1,607	7,463	--	19,629
Trade and industrial	--	--	--	--	--	--
Visual and performing arts	1,233	3,449	1,607	7,078	--	17,146
Other	--	--	--	--	--	--
<b>Total</b>	<b>1,491</b>	<b>2,580</b>	<b>1,858</b>	<b>4,476</b>	<b>1,930</b>	<b>11,847</b>

1. The average instructional faculty salary cost per full-time equivalent student for each level is calculated as follows: the instructional salary for each rank is assigned by level according to the percentage distribution of the course (assigned) credits within each rank. The salary for each rank is summed by level and divided by total full-time equivalent students for that level. For individual instruction, one course (assigned) credit is attributed to every three student credit hours generated.

2. Classification of Instructional Programs, U.S. Department of Education, National Center for Education Statistics.

3. Excludes medical school data.

SOURCE: Reports provided by University of Pittsburgh, 1993.



Table 8D

TEMPLE UNIVERSITY  
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT<sup>1</sup>  
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION<sup>2</sup>  
 1992-93

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total under-graduate	Master's	First professional <sup>3</sup>	Doctor's
Agriculture	\$2,121	\$2,193	\$2,158	\$3,104	--	--
Architecture and environmental design	1,903	2,853	2,567	1,907	--	--
Area and ethnic studies	1,478	2,838	2,097	2,654	--	\$2,752
Business	1,603	1,864	1,798	2,083	--	8,169
Communications	1,094	2,203	1,827	4,072	--	8,286
Computer and information sciences	2,051	2,648	2,429	3,444	--	5,604
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,144	1,779	1,571	2,142	--	5,216
Engineering	2,721	3,358	3,203	4,493	--	8,738
Foreign languages	1,841	2,484	2,140	3,554	\$1,157	5,808
Health	2,030	1,859	1,874	3,313	4,414	6,386
Home economics	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--
Law	1,322	1,963	1,645	3,021	2,387	5,235
Letters	1,468	1,999	1,655	4,365	--	4,437
Liberal/general studies	1,172	1,291	1,208	3,749	--	7,398
Library and archival sciences	--	--	--	--	--	--
Life sciences	568	1,392	923	2,290	--	7,460
Mathematics	1,498	2,054	1,679	3,320	--	10,966
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	--	--	--	--	--	--
Parks and recreation	2,459	2,240	2,302	2,733	--	4,603
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	1,885	2,592	2,209	7,039	--	9,417
Physical sciences	1,099	1,532	1,270	3,964	--	10,433
Psychology	992	1,797	1,398	2,237	--	5,998
Public affairs and protective services	1,304	2,338	1,983	2,949	1,391	4,207
Social sciences	1,199	1,835	1,511	3,265	5,262	6,147
Trade and industrial	--	--	--	--	--	--
Visual and performing arts	2,519	3,660	3,078	5,318	1,788	8,787
Other	--	--	--	--	--	--
<b>Total</b>	<b>1,454</b>	<b>2,108</b>	<b>1,805</b>	<b>2,994</b>	<b>3,167</b>	<b>6,479</b>

1. The average instructional faculty salary cost per full-time equivalent student for each level is calculated as follows: the instructional salary for each rank is assigned by level according to the percentage distribution of the course (assigned) credits within each rank. The salary for each rank is summed by level and divided by total full-time equivalent students for that level. For individual instruction, one course (assigned) credit is attributed to every three student credit hours generated.

2. Classification of Instructional Programs, U.S. Department of Education, National Center for Education Statistics.

3. Excludes medical school data.

SOURCE: Reports provided by Temple University, 1993.

Table 8E

STATE-OWNED UNIVERSITIES  
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT<sup>1</sup>  
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION<sup>2</sup>  
 1992-93

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total under-graduate	Master's	First professional	Doctor's <sup>3</sup>
Agriculture	\$1,998	\$3,928	\$2,068	\$1,271	--	--
Architecture and environmental design	--	2,460	2,460	5,409	--	--
Area and ethnic studies	2,176	2,706	2,445	4,794	--	--
Business	1,955	2,572	2,334	2,946	--	--
Communications	2,030	3,035	2,487	3,712	--	--
Computer and information sciences	2,136	4,849	2,574	3,158	--	--
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,738	3,097	2,523	2,697	--	--
Engineering	3,180	3,399	3,332	1,266	--	--
Foreign languages	2,441	4,772	2,812	3,186	--	--
Health	2,631	3,913	3,415	3,071	--	--
Home economics	1,511	2,774	2,118	8,209	--	--
Industrial arts	3,096	4,691	3,831	2,652	--	--
Law	1,984	1,756	1,867	2,142	--	--
Letters	2,040	3,055	2,224	4,529	--	--
Liberal/general studies	918	1,923	978	--	--	--
Library and archival sciences	3,409	5,000	3,930	2,548	--	--
Life sciences	1,984	5,246	2,544	8,122	--	--
Mathematics	2,024	3,554	2,207	5,627	--	--
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	2,041	3,975	2,552	2,570	--	--
Parks and recreation	2,097	2,790	2,427	5,160	--	--
Personal and social development	2,123	3,642	2,392	2,988	--	--
Philosophy, religion and theology	1,801	3,416	1,959	5,728	--	--
Physical sciences	2,526	7,544	3,085	9,432	--	--
Psychology	1,445	2,492	1,748	3,548	--	--
Public affairs and protective services	1,404	2,973	2,184	2,476	--	--
Social sciences	1,459	3,255	1,853	5,087	--	--
Trade and industrial	3,209	5,890	4,717	--	--	--
Visual and performing arts	2,179	5,371	2,820	9,726	--	--
Other	2,125	1,687	1,961	2,575	--	--
<b>Total</b>	<b>1,922</b>	<b>3,328</b>	<b>2,370</b>	<b>3,496</b>	<b>--</b>	<b>--</b>

1. The average instructional faculty salary cost per full-time equivalent student for each level is calculated as follows: the instructional salary for each rank is assigned by level according to the percentage distribution of the course (assigned) credits within each rank. The salary for each rank is summed by level and divided by total full-time equivalent students for that level. For individual instruction, one course (assigned) credit is attributed to every three student credit hours generated.

2. Classification of Instructional Programs, U.S. Department of Education, National Center for Education Statistics.

3. Doctor's level for Indiana included in master's level.

SOURCE: Reports provided by the individual State-owned universities, 1993.

Table 9

AVERAGE CLASS SIZES IN CLASSROOM INSTRUCTION BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>  
 1992-93, CHANGE FROM 1991-92 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1987-88 to 1992-93)

University	Undergraduate											
	Lower division			Upper division			Total undergraduate			Master's		
	Class size	Percentage change		Class size	Percentage change		Class size	Percentage change		Class size	Percentage change	
One-year		Five-year average	One-year		Five-year average	One-year		Five-year average	One-year		Five-year average	
<b>State-related</b>												
Lincoln	24	4%	3%	15	15%	7%	21	5%	3%	14	0%	2%
Penn State	31	0	0	27	-7	-1	30	0	0	14	0	-1
Pittsburgh	31	0	-1	27	-4	0	29	-3	-1	19	6	1
Temple	27	0	2	24	-4	1	25	-4	1	16	0	5
<b>Total</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>26</b>	<b>-4</b>	<b>0</b>	<b>28</b>	<b>-3</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>1</b>
<b>State-owned</b>												
Bloomsburg	25	0	2	18	0	2	22	-4	1	11	-15	-2
California	29	0	0	18	0	0	24	-4	-1	13	18	6
Cheyney	23	5	3	14	-7	8	20	0	5	18	0	25
Clarion	33	0	-1	17	13	0	26	4	-1	13	8	0
East Stroudsburg	27	-4	-1	17	0	1	23	-4	-1	19	-17	0
Edinboro	28	8	1	18	6	0	24	4	0	10	0	0
Indiana	30	-6	-1	17	0	0	24	-4	-1	10	0	9
Kutztown	28	0	-1	17	6	4	23	0	0	12	-8	-2
Lock Haven	28	4	0	17	42	0	24	20	0	4	a	na
Mansfield	27	0	-1	10	11	5	17	0	1	9	0	2
Millersville	26	4	1	17	0	6	22	0	2	14	0	3
Shippensburg	28	-3	0	16	b	b	23	b	b	14	0	3
Slippery Rock	31	0	1	16	-6	1	25	0	2	17	-6	14
West Chester	24	0	-1	15	-6	-2	20	0	-2	12	9	4
<b>Total</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>4</b>
<b>All universities<sup>2</sup></b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>-4</b>	<b>-1</b>	<b>15</b>	<b>7</b>	<b>3</b>

1. Average class size for each level is calculated by dividing total classroom student credit hours by total classroom course (assigned) credits.

2. Because of rounding, percentage changes for the all universities total may not appear to reflect the percentage changes for the State-related and State-owned university group totals.

a. The master's program was not included prior to 1992-93.

b. Class sizes are not comparable with those for previous years because of a change in reporting student teaching.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1988 to 1993.

Table 10

ACADEMIC YEAR TUITION AND REQUIRED FEES FOR FULL-TIME STUDENTS BY ACADEMIC LEVEL AND RESIDENCE  
1992-93, CHANGE FROM 1991-92 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1987-88 to 1992-93)

University	Undergraduate						Graduate <sup>1</sup>					
	In-State			Out-of-State			In-State			Out-of-State		
	Tuition and required fees	Percentage change One- year	Five-year average	Tuition and required fees	Percentage change One- year	Five-year average	Tuition and required fees	Percentage change One- year	Five-year average	Tuition and required fees	Percentage change One- year	Five-year average
State-related												
Lincoln	\$2,960	9%	8%	\$4,380	9%	8%	\$4,375	5%	15%	\$6,275	5%	11%
Penn State <sup>2</sup>	4,618	5	8	9,644	5	9	5,158	5	9	10,246	5	9
Pittsburgh <sup>2</sup>	4,922	5	8	10,066	6	9	6,516	6	11	12,706	6	11
Temple	5,008	5	8	9,222	6	10	5,828	2	10	7,340	3	10
Average	4,377	6	8	8,328	6	9	5,469	4	11	9,142	5	10
State-owned												
Bloomsburg	3,068	3	11	6,462	24	18	2,958	3	11	4,426	23	22
California	3,384	8	12	6,778	26	18	3,258	12	11	4,726	30	21
Cheyney	2,938	4	9	6,332	24	17	2,833	4	8	4,301	24	19
Clarion	3,328	6	13	6,830	24	19	3,253	6	13	4,809	25	24
East Stroudsburg	3,352	9	15	6,746	26	20	3,196	9	14	4,662	27	24
Edinboro	3,161	5	10	6,555	24	17	3,131	5	10	4,599	24	20
Indiana	3,157	3	11	6,551	23	18	2,969	a	10	4,437	20	21
Kutztown	3,160	5	11	6,639	24	18	2,880	4	10	4,385	25	22
Lock Haven	3,261	8	13	6,655	23	19	3,261	b	na	4,729	b	na
Mansfield	3,168	7	11	6,562	26	18	3,028	8	11	4,496	27	22
Millersville	3,488	13	14	6,882	28	20	3,488	13	16	4,956	30	26
Shippensburg	3,388	9	13	6,782	26	19	3,258	9	13	4,726	28	24
Slippery Rock	3,287	8	11	6,681	23	18	3,287	8	11	4,755	25	21
West Chester	3,158	8	12	6,522	26	18	3,040	4	12	4,508	24	23
Average	3,236	7	12	6,641	25	18	3,131	7	12	4,608	25	22

1. Excludes first-professional level.

2. Main campus data only.

a. Rounds to less than 1 percent.

b. The graduate program was not included prior to 1992-93.

na. Not applicable.

SOURCE: Pennsylvania Department of Education, Basic Student Charges at Institutions of Higher Education, 1987-88 and Colleges and Universities-Basic Student Charges, 1988-89 to 1992-93.

Table 11

**TUITION AND FEE REVENUES RELATED TO FULL-TIME EQUIVALENT STUDENTS<sup>1</sup>**  
**1992-93, CHANGE FROM 1991-92 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1987-88 to 1992-93)**

University	Tuition and fee revenues			Tuition and fee revenues per FTE student			
	Amount (000s)	Percentage change		Amount	One-year change	Percentage change	
		One- year	Five-year average			One- year	Five-year average
<b>State-related</b>							
Lincoln	\$5,883	9%	13%	\$3,840	\$330	9%	8%
Penn State	356,693	5	10	5,650	280	5	9
Pittsburgh	198,742	9	11	6,760	570	9	10
Temple	157,059	3	9	6,090	320	6	9
<b>Total</b>	<b>718,377</b>	<b>5</b>	<b>10</b>	<b>5,990</b>	<b>360</b>	<b>6</b>	<b>9</b>
<b>State-owned</b>							
Bloomsburg	23,773	7	15	3,220	210	7	12
California	20,327	15	17	3,360	520	18	14
Cheyney	5,468	11	7	3,840	280	8	9
Clarion	19,318	7	12	3,290	290	10	12
East Stroudsburg	20,988	10	17	4,000	420	12	14
Edinboro	27,006	12	23	3,540	380	12	14
Indiana	47,538	3	15	3,470	240	7	13
Kutztown	24,244	3	15	3,500	210	6	12
Lock Haven	13,332	14	24	3,630	370	11	14
Mansfield	11,940	12	21	3,800	400	12	14
Millersville	27,127	12	19	3,920	450	13	17
Shippensburg	21,488	11	14	3,520	400	13	13
Slippery Rock	25,937	11	18	3,520	400	13	14
West Chester	37,514	7	16	3,730	310	9	15
<b>Total</b>	<b>326,000</b>	<b>9</b>	<b>16</b>	<b>3,560</b>	<b>340</b>	<b>11</b>	<b>14</b>
<b>All universities</b>	<b>1,044,377</b>	<b>6</b>	<b>12</b>	<b>4,940</b>	<b>350</b>	<b>8</b>	<b>10</b>

1. FTE students include in-State and out-of-State undergraduate and graduate students.

SOURCE: Tuition and fee revenues - individual State-related universities and the State System of Higher Education, Commonwealth of Pennsylvania, 1988 to 1993; FTE students - reports provided by the individual universities, 1988 to 1993.

Table 12

**COMMONWEALTH APPROPRIATIONS FOR INSTRUCTION RELATED TO FULL-TIME EQUIVALENT STUDENTS<sup>1</sup>**  
**1992-1993, CHANGE FROM 1991-92 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1987-88 to 1992-93)**

University	Educational and general appropriations (000s)	Percentage change		Total instructional appropriations per FTE student			
		One-year	Five-year average	Amount	One-year change	One-year	Five-year average
<b>State-related</b>							
Lincoln	\$9,305	0%	4%	\$6,080	\$40	1%	a
Penn State	189,319	0	7	3,000	20	1	6%
Pittsburgh <sup>2</sup>	119,314	0	4	4,060	10	a	4
Temple	128,078	0	4	4,970	100	2	4
<b>Total</b>	<b>446,016</b>	<b>0</b>	<b>5</b>	<b>3,720</b>	<b>30</b>	<b>1</b>	<b>4</b>
<b>State-owned</b>							
Bloomsburg	27,308	-3	4	3,700	-120	-3	2
California	23,443	-3	6	3,880	-10	a	4
Cheyney	12,316	-3	a	8,650	-540	-6	1
Clarion	24,744	-3	4	4,220	-30	-1	4
East Stroudsburg	19,920	-3	4	3,790	-100	-3	1
Edinboro	25,388	-3	4	3,320	-120	-3	-1
Indiana	49,250	-3	4	3,600	20	1	3
Kutztown	26,110	-3	5	3,770	-30	-1	3
Lock Haven	14,868	-3	4	4,050	-230	-5	-2
Mansfield	14,559	-3	3	4,630	-160	-3	-1
Millersville	27,597	-3	5	3,990	-120	-3	4
Shippensburg	23,911	-3	4	3,920	-80	-2	3
Slippery Rock	27,294	-3	4	3,710	-60	-2	2
West Chester	37,934	-3	5	3,780	-70	-2	5
<b>Total<sup>3</sup></b>	<b>354,642</b>	<b>-3</b>	<b>4</b>	<b>3,880</b>	<b>-70</b>	<b>-2</b>	<b>2</b>
<b>All universities<sup>3</sup></b>	<b>800,658</b>	<b>-2</b>	<b>5</b>	<b>3,790</b>	<b>-10</b>	<b>a</b>	<b>3</b>

1. Instructional appropriations include Tuition Challenge Grants for 1989-90 and 1990-91 only. FTE students include in-State and out-of-state undergraduate and graduate students.

2. Includes appropriations for branch campuses - Bradford, Johnstown and Titusville.

3. Excludes amount of appropriation allocated to Board of Governors/Chancellor's Office and System Reserve of the State System of Higher Education.

a. Rounds to less than 1 percent.

SOURCE: Instructional appropriations - Governor's Executive Budget, 1989-90 to 1993-94; State System of Higher Education, Commonwealth of Pennsylvania, 1988 to 1993; and individual State-related universities, 1992 and 1993. FTE students - reports provided by the individual universities, 1988 to 1993.

Table 13

**TUITION AND FEE REVENUES,  
COMMONWEALTH APPROPRIATIONS FOR INSTRUCTION AND STUDENT AID PER FULL-TIME EQUIVALENT STUDENT<sup>1</sup>  
1992-93, CHANGE FROM 1991-92 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1987-88 to 1992-93)**

University	Per FTE student		Ratio of total instructional appropriations to total instructional revenues			Student aid per FTE student <sup>2</sup>	
	Tuition and fee revenues	Total instructional appropriations	Total instructional revenues	Percentage	Percentage change		
					One-year		Five-year average
<b>State-related</b>							
Lincoln	\$3,840	\$6,080	\$9,920	61%	-3%	-2%	\$225
Penn State	5,650	3,000	8,650	35	-3	-1	359
Pittsburgh	6,760	4,060	10,820	38	-5	-2	353
Temple	6,090	4,970	11,060	45	-2	-2	325
<b>Total</b>	<b>5,990</b>	<b>3,720</b>	<b>9,710</b>	<b>38</b>	<b>-5</b>	<b>-2</b>	<b>349</b>
<b>State-owned</b>							
Bloomsburg	3,220	3,700	6,920	53	-5	-3	282
California	3,360	3,880	7,240	54	-7	-3	437
Cheyney	3,840	8,650	12,490	69	-4	-2	614
Clarion	3,290	4,220	7,510	56	-5	-2	394
East Stroudsburg	4,000	3,790	7,790	49	-6	-4	240
Edinboro	3,540	3,320	6,860	48	-8	-5	378
Indiana	3,470	3,600	7,070	51	-4	-3	397
Kutztown	3,500	3,770	7,270	52	-4	-3	231
Lock Haven	3,630	4,050	7,680	53	-7	-4	413
Mansfield	3,800	4,630	8,430	55	-5	-4	363
Millersville	3,920	3,990	7,910	50	-7	-4	260
Shippensburg	3,520	3,920	7,440	53	-5	-3	258
Slippery Rock	3,520	3,710	7,230	51	-7	-4	367
West Chester	3,730	3,780	7,510	50	-6	-3	196
<b>Total<sup>3</sup></b>	<b>3,560</b>	<b>3,880</b>	<b>7,440</b>	<b>52</b>	<b>-5</b>	<b>-3</b>	<b>326</b>
<b>All universities<sup>3</sup></b>	<b>4,940</b>	<b>3,790</b>	<b>8,730</b>	<b>43</b>	<b>-4</b>	<b>-3</b>	<b>339</b>

1. Tuition and fee revenues are based on collections by the individual universities. Instructional appropriations include educational and general appropriations (and Tuition Challenge Grants for 1989-90 and 1990-91 only). FTE students include in-State and out-of-State undergraduate and graduate students.

2. Includes grants and matching funds. Does not include student loans.

3. Appropriations exclude amount allocated to Board of Governors/Chancellor's Office and System Reserve of the State System of Higher Education.

a. Rounds to less than 1 percent.

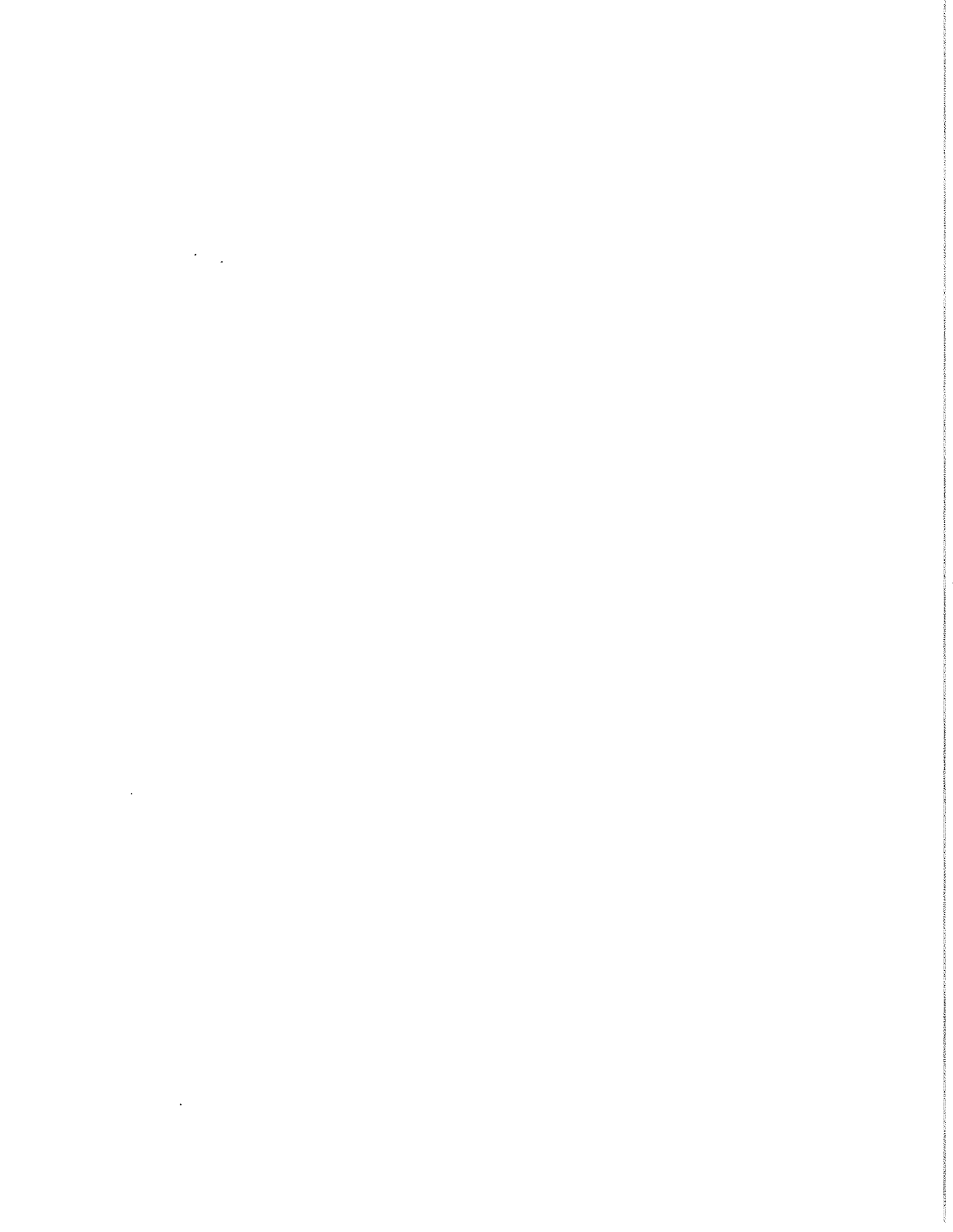
SOURCE: Tuition and fee revenues - individual State-related universities and the State System of Higher Education, Commonwealth of Pennsylvania, 1988 to 1993; instructional appropriations - Governor's Executive Budget, 1989-90 to 1993-94; State System of Higher Education, Commonwealth of Pennsylvania, 1988 to 1993; and individual State-related universities 1992 and 1993; FTE students - reports provided by the individual universities, 1988 to 1993; student aid - Pennsylvania Higher Education Assistance Agency, August 1993.





### III. HISTORICAL DATA

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Historical Table 1  
**FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC LEVEL<sup>1</sup>**  
 1987-88 to 1992-93

University	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93
<b>State-related</b>						
Lincoln						
Total	1,303	1,317	1,394	1,469	1,540	1,531
Undergraduate	1,108	1,116	1,171	1,245	1,337	1,321
Graduate	195	201	223	224	203	210
Penn State						
Total	60,861	62,095	62,839	63,633	63,537	63,161
Undergraduate	55,177	56,271	56,641	57,223	57,224	56,739
Graduate	5,684	5,824	6,198	6,410	6,313	6,422
Pittsburgh						
Total	28,792	29,271	29,757	29,348	29,492	29,405
Undergraduate	21,302	21,814	22,107	21,873	22,097	21,638
Graduate	7,490	7,457	7,650	7,475	7,395	7,767
Temple						
Total	25,646	26,453	27,005	25,296	26,321	25,773
Undergraduate	19,923	20,614	20,898	19,143	19,617	18,910
Graduate	5,713	5,839	6,107	6,153	6,704	6,863
<b>State-owned</b>						
Bloomsburg						
Total	6,781	6,794	7,058	7,281	7,415	7,379
Undergraduate	6,381	6,400	6,831	6,859	6,966	6,984
Graduate	400	394	427	422	449	395
California						
Total	3,544	3,997	6,264	6,209	6,242	6,044
Undergraduate	3,083	3,509	5,673	5,630	5,581	5,307
Graduate	461	488	591	579	661	737
Cheyney						
Total	1,520	1,241	1,433	1,486	1,389	1,423
Undergraduate	1,402	1,081	1,204	1,240	1,174	1,247
Graduate	118	160	229	246	215	176
Clarion						
Total	3,959	6,284	6,312	6,280	6,028	5,863
Undergraduate	3,334	5,889	5,916	5,820	5,639	5,546
Graduate	404	395	396	460	389	317
East Stroudsburg						
Total	4,728	4,824	5,250	5,384	5,309	5,251
Undergraduate	4,183	4,344	4,634	4,760	4,645	4,645
Graduate	545	480	616	624	664	606
Edinboro						
Total	6,105	6,673	7,098	7,548	7,651	7,637
Undergraduate	5,757	6,279	6,695	7,118	7,233	7,231
Graduate	348	394	403	430	418	406
Indiana						
Total	13,173	13,165	13,668	13,976	14,235	13,696
Undergraduate	12,281	12,337	12,748	12,961	13,116	12,541
Graduate	892	828	920	1,015	1,119	1,155
Kutztown						
Total	6,334	6,332	6,913	7,123	7,136	6,926
Undergraduate	6,024	6,229	6,537	6,713	6,724	6,524
Graduate	310	303	376	410	412	402
Lock Haven						
Total	2,834	2,970	3,176	3,505	3,599	3,669
Undergraduate	2,834	2,970	3,176	3,505	3,599	3,661
Graduate	na	na	a	a	a	8
Mansfield						
Total	2,606	2,830	3,035	3,070	3,149	3,142
Undergraduate	2,460	2,645	2,838	2,887	2,980	2,933
Graduate	146	185	197	183	169	189
Millersville						
Total	6,589	6,914	7,030	7,072	6,939	6,919
Undergraduate	5,868	6,084	6,266	6,216	6,168	6,093
Graduate	721	830	764	856	771	826
Shippensburg						
Total	5,958	5,901	5,978	6,015	6,197	6,096
Undergraduate	5,459	5,419	5,513	5,543	5,693	5,597
Graduate	499	482	465	472	502	499
Slippery Rock						
Total	6,586	6,947	7,124	7,436	7,496	7,358
Undergraduate	6,306	6,588	6,648	6,831	6,866	6,738
Graduate	280	359	476	605	630	620
West Chester						
Total	9,910	9,583	9,889	10,237	10,219	10,048
Undergraduate	8,987	8,637	8,898	9,121	9,135	9,003
Graduate	923	946	991	1,116	1,084	1,045

1. Data for each year represent the summer term preceding the academic year plus the academic year. Full-time equivalent students are calculated by dividing undergraduate student credit hours by 30 and graduate student credit hours by 24. In addition to master's level, graduate for Penn State, Pittsburgh, Temple and Indiana includes first-professional (excluding medical schools) and/or doctor's levels.

a. The graduate program was not included prior to 1992-93.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1988 to 1993.

Historical Table 2

**STUDENT CREDIT HOURS BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>**  
**TOTAL YEAR AND SUMMER 1987-88 to 1992-93**  
(in thousands)

University	Total year							Summer		Total	
	Lower division	Upper division	Total under-graduate	Master's	First pro-fessional	Doctor's	Total graduate	Grand total	Under-graduate		Graduate
<b>State-related</b>											
<b>Lincoln</b>											
1987-88	27	7	34	5	na	na	5	39	1	a	1
1988-89	27	7	34	5	na	na	5	39	1	a	1
1989-90	28	7	35	5	na	na	5	40	1	1	2
1990-91	29	9	38	5	na	na	5	43	1	1	2
1991-92	31	9	40	5	na	na	5	45	1	1	2
1992-93	30	10	40	5	na	na	5	45	1	a	1
<b>Penn State</b>											
1987-88	1,129	526	1,655	71	na	65	136	1,791	99	21	120
1988-89	1,131	558	1,689	77	na	62	139	1,828	97	21	118
1989-90	1,098	601	1,699	83	na	66	149	1,848	98	22	120
1990-91	1,091	626	1,717	82	na	72	154	1,871	104	23	127
1991-92	1,083	634	1,717	82	na	70	152	1,869	105	23	128
1992-93	1,092	611	1,703	85	na	69	154	1,857	104	23	127
<b>Pittsburgh</b>											
1987-88	419	220	639	111	40	28	179	818	66	36	102
1988-89	436	219	655	113	38	27	178	833	66	34	100
1989-90	445	219	664	113	42	27	182	846	66	34	100
1990-91	441	215	656	118	38	24	180	836	65	33	98
1991-92	440	223	663	121	36	20	177	840	63	31	94
1992-93	431	218	649	129	36	22	187	836	57	32	89
<b>Temple</b>											
1987-88	316	282	598	67	47	23	137	735	50	16	66
1988-89	329	289	618	69	47	24	140	758	53	16	69
1989-90	332	295	627	75	47	24	146	773	54	16	70
1990-91	284	291	575	77	48	23	148	723	56	17	73
1991-92	281	308	589	84	53	24	161	750	56	20	76
1992-93	262	305	567	87	54	24	165	732	55	21	76
<b>State-owned</b>											
<b>Bloomburg</b>											
1987-88	135	57	192	10	na	na	10	202	16	4	20
1988-89	136	56	192	9	na	na	9	201	16	4	20
1989-90	140	59	199	10	na	na	10	209	17	4	21
1990-91	145	60	205	11	na	na	11	216	19	5	24
1991-92	146	63	209	11	na	na	11	220	19	4	23
1992-93	143	66	209	9	na	na	9	218	19	3	22
<b>California</b>											
1987-88	105	48	153	11	na	na	11	164	11	4	15
1988-89	113	53	166	12	na	na	12	178	11	4	15
1989-90	115	55	170	14	na	na	14	184	12	4	16
1990-91	112	57	169	14	na	na	14	183	12	4	16
1991-92	116	52	168	16	na	na	16	184	11	4	15
1992-93	109	50	159	18	na	na	18	177	10	5	15
<b>Cheyney</b>											
1987-88	33	9	42	3	na	na	3	45	2	1	3
1988-89	25	7	32	4	na	na	4	36	1	1	2
1989-90	27	9	36	5	na	na	5	41	2	2	4
1990-91	27	10	37	6	na	na	6	43	1	2	3
1991-92	25	10	35	5	na	na	5	40	1	2	3
1992-93	28	9	37	4	na	na	4	41	1	1	2
<b>Clarion</b>											
1987-88	120	46	166	10	na	na	10	176	11	2	13
1988-89	128	49	177	9	na	na	9	186	12	3	15
1989-90	128	49	177	10	na	na	10	187	12	3	15
1990-91	124	51	175	11	na	na	11	186	12	4	16
1991-92	119	51	170	9	na	na	9	179	11	3	14
1992-93	116	50	166	8	na	na	8	174	11	2	13
<b>East Stroudsburg</b>											
1987-88	96	30	126	13	na	na	13	139	12	7	19
1988-89	99	32	131	12	na	na	12	143	14	5	19
1989-90	105	34	139	15	na	na	15	154	15	7	22
1990-91	105	38	143	15	na	na	15	158	16	6	22
1991-92	102	38	140	16	na	na	16	156	15	7	22
1992-93	100	40	140	15	na	na	15	155	15	6	21

<b>Edinboro</b>											
1987-88	122	51	173	8	na	na	8	181	12	2	14
1988-89	138	51	189	9	na	na	9	198	12	2	14
1989-90	148	53	201	10	na	na	10	211	12	3	15
1990-91	154	60	214	10	na	na	10	224	12	3	15
1991-92	153	64	217	10	na	na	10	227	14	3	17
1992-93	150	67	217	10	na	na	10	227	14	2	16
<b>Indiana</b>											
1987-88	249	120	369	21	na	b	21	390	31	7	38
1988-89	253	118	371	19	na	b	19	390	34	6	40
1989-90	262	120	382	23	na	b	23	405	34	7	41
1990-91	269	119	388	24	na	b	24	412	34	7	41
1991-92	265	128	393	27	na	b	27	420	33	8	41
1992-93	250	126	376	28	na	b	28	404	32	8	40
<b>Kutztown</b>											
1987-88	125	55	180	7	na	na	7	187	9	2	11
1988-89	128	59	187	7	na	na	7	194	10	2	12
1989-90	133	64	197	8	na	na	8	205	11	3	14
1990-91	135	67	202	10	na	na	10	212	11	3	14
1991-92	132	70	202	10	na	na	10	212	12	3	15
1992-93	125	71	196	10	na	na	10	206	11	3	14
<b>Lock Haven</b>											
1987-88	60	25	85	na	na	na	na	85	4	na	4
1988-89	64	25	89	na	na	na	na	89	5	na	5
1989-90	68	27	95	c	na	na	c	95	4	c	4
1990-91	76	29	105	c	na	na	c	105	5	c	5
1991-92	78	30	108	c	na	na	c	108	5	c	5
1992-93	80	30	110	a	na	na	a	110	6	a	6
<b>Mansfield</b>											
1987-88	54	20	74	4	na	na	4	78	5	1	6
1988-89	60	20	80	4	na	na	4	84	5	2	7
1989-90	63	22	85	5	na	na	5	90	5	2	7
1990-91	62	24	86	4	na	na	4	90	5	1	6
1991-92	62	27	89	5	na	na	5	94	5	1	6
1992-93	61	28	89	5	na	na	5	94	5	2	7
<b>Millersville</b>											
1987-88	131	45	176	17	na	na	17	193	18	10	28
1988-89	131	52	183	20	na	na	20	203	17	13	30
1989-90	134	54	188	18	na	na	18	206	17	11	28
1990-91	132	54	186	21	na	na	21	207	16	14	30
1991-92	127	58	185	19	na	na	19	204	16	12	28
1992-93	121	62	183	20	na	na	20	203	15	13	28
<b>Shippensburg</b>											
1987-88	119	45	164	12	na	na	12	176	11	4	15
1988-89	119	43	162	12	na	na	12	174	11	4	15
1989-90	123	42	165	11	na	na	11	176	11	4	15
1990-91	120	46	166	11	na	na	11	177	10	4	14
1991-92	123	48	171	12	na	na	12	183	10	4	14
1992-93	119	49	168	12	na	na	12	180	10	4	14
<b>Slippery Rock</b>											
1987-88	141	48	189	7	na	na	7	196	14	2	16
1988-89	150	48	198	8	na	na	8	206	15	2	17
1989-90	152	48	200	11	na	na	11	211	15	2	17
1990-91	151	54	205	15	na	na	15	220	16	3	19
1991-92	146	60	206	15	na	na	15	221	17	4	21
1992-93	141	61	202	15	na	na	15	217	17	4	21
<b>West Chester</b>											
1987-88	190	79	269	22	na	na	22	291	20	7	27
1988-89	179	80	259	22	na	na	22	281	20	7	27
1989-90	179	88	267	24	na	na	24	291	21	7	28
1990-91	183	91	274	27	na	na	27	301	22	7	29
1991-92	180	94	274	26	na	na	26	300	22	7	29
1992-93	175	95	270	25	na	na	25	295	22	7	29

1. Data for each year represent the summer term preceding the academic year plus the academic year. The first--professional level excludes medical school data for all universities.

a. Rounds to less than one thousand student credit hours.

b. Included in master's level.

c. The master's program was not included prior to 1992-93.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1988 to 1993.

Historical Table 3  
DEGREES CONFERRED<sup>1</sup>  
1987-88 to 1992-93

University	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93
<b>State-related</b>						
<b>Lincoln</b>						
Total	255	241	219	300	292	250
Bachelor's	156	166	134	208	207	188
Graduate	99	75	85	92	85	62
<b>Penn State</b>						
Total	9,565	9,951	10,623	11,205	11,440	11,452
Bachelor's	7,851	8,120	8,792	9,278	9,595	9,387
Graduate	1,714	1,831	1,831	1,927	2,045	2,065
<b>Pittsburgh</b>						
Total	6,269	6,223	6,417	6,130	6,531	6,761
Bachelor's	3,738	3,757	3,973	3,690	3,973	4,185
Graduate	2,531	2,466	2,444	2,440	2,558	2,576
<b>Temple</b>						
Total	4,972	5,324	5,295	5,402	5,815	5,804
Bachelor's	3,176	3,437	3,473	3,563	3,672	3,660
Graduate	1,796	1,887	1,822	1,839	2,143	2,144
<b>State-owned</b>						
<b>Bloomsburg</b>						
Total	1,330	1,235	1,380	1,432	1,517	1,568
Bachelor's	1,160	1,046	1,186	1,240	1,256	1,347
Graduate	170	189	194	192	261	221
<b>California</b>						
Total	913	949	1,050	1,132	1,213	1,241
Bachelor's	767	774	861	928	968	976
Graduate	146	175	189	204	245	265
<b>Cheyney</b>						
Total	195	144	187	211	246	238
Bachelor's	172	107	145	137	148	151
Graduate	23	37	42	74	98	87
<b>Clarion</b>						
Total	1,051	1,103	1,114	1,134	1,212	1,146
Bachelor's	894	955	924	952	1,030	972
Graduate	157	148	190	182	182	174
<b>East Stroudsburg</b>						
Total	756	820	902	974	987	1,057
Bachelor's	644	691	759	808	798	864
Graduate	112	129	143	166	189	193
<b>Edinboro</b>						
Total	945	1,043	1,016	1,118	1,239	1,399
Bachelor's	818	895	849	969	1,074	1,230
Graduate	127	148	167	149	165	169
<b>Indiana</b>						
Total	2,514	2,561	2,403	2,697	2,648	2,756
Bachelor's	2,118	2,182	1,921	2,285	2,241	2,293
Graduate	396	379	482	412	407	463
<b>Kutztown</b>						
Total	1,008	1,125	1,193	1,253	1,369	1,440
Bachelor's	908	1,001	1,076	1,071	1,162	1,204
Graduate	100	124	117	182	207	236
<b>Lock Haven</b>						
Total	468	462	479	533	603	615
Bachelor's	468	462	479	533	603	612
Graduate	na	na	a	a	a	3
<b>Mansfield</b>						
Total	441	494	507	493	610	632
Bachelor's	391	435	420	430	551	548
Graduate	50	59	87	63	59	84
<b>Millersville</b>						
Total	1,250	1,164	1,317	1,337	1,349	1,438
Bachelor's	1,126	1,045	1,170	1,167	1,162	1,266
Graduate	124	119	147	170	187	172
<b>Shippensburg</b>						
Total	1,517	1,447	1,252	1,408	1,491	1,543
Bachelor's	1,173	1,121	982	1,105	1,158	1,247
Graduate	344	326	270	303	333	296
<b>Slippery Rock</b>						
Total	1,171	1,185	1,210	1,329	1,375	1,478
Bachelor's	1,069	1,045	1,080	1,132	1,172	1,311
Graduate	102	140	130	177	203	167
<b>West Chester</b>						
Total	1,460	1,573	1,695	1,864	1,945	2,088
Bachelor's	1,251	1,319	1,427	1,526	1,598	1,718
Graduate	209	254	268	338	347	370

1. Data for each year represent the summer term preceding the academic year plus the academic year. Graduate include master's at all universities, first professional (excluding medical schools) at Pittsburgh and Temple, and doctor's at Penn State, Pittsburgh, Temple and Indiana.

a. The graduate program was not included prior to 1992-93.  
na. Not applicable.

SOURCE: Reports provided by the individual universities, 1988 to 1993.

Historical Table 4

AVERAGE WEEKLY STUDENT CONTACT HOURS OF FULL-TIME EMPLOYED FACULTY BY ACADEMIC LEVEL<sup>1</sup>  
FALL 1987 to FALL 1992

University	Full-time employed faculty <sup>2</sup>						Undergraduate average weekly student contact hours						Graduate average weekly student contact hours					
	1987	1988	1989	1990	1991	1992	1987	1988	1989	1990	1991	1992	1987	1988	1989	1990	1991	1992
	<b>State-related</b>																	
Lincoln	68	68	71	76	81	77	9.3	9.8	10.0	9.8	10.4	9.7	.8	1.4	.8	.6	.5	1.1
Penn State	2,803	2,894	2,967	3,008	3,020	2,947	6.9	6.8	6.8	6.8	6.7	6.7	1.9	1.8	1.7	1.7	1.8	1.8
Pittsburgh	1,626	1,643	1,704	1,667	1,708	1,735	4.7	4.4	4.5	4.5	4.4	4.6	3.8	3.6	3.6	3.6	3.4	3.9
Temple	1,125	1,149	1,177	1,148	1,137	1,151	5.7	5.2	5.0	4.8	4.9	5.0	3.2	3.1	3.2	3.1	3.1	3.9
Total	5,622	5,754	5,919	5,899	5,946	5,910	6.1	5.8	5.8	5.8	5.7	5.8	2.7	2.6	2.5	2.5	2.5	2.8
<b>State-owned</b>																		
Bloomsburg	338	338	349	353	353	359	10.4	11.4	11.1	10.6	10.6	11.1	.8	.9	.7	.9	.8	.9
California	259	279	293	297	263	330	10.7	10.7	9.7	10.2	10.2	9.9	1.0	1.3	1.1	1.3	1.1	1.2
Cheyney	118	99	112	88	91	73	10.8	11.0	11.4	10.9	10.8	11.6	1.0	.6	.9	1.0	.8	1.1
Clarion	326	336	336	351	345	341	10.4	10.4	10.3	10.2	10.0	10.7	.6	.7	.7	.7	.7	.7
East Stroudsburg	241	243	251	254	254	260	10.1	10.0	10.6	10.4	10.7	11.1	.8	.9	.8	1.0	.9	.9
Edinboro	303	326	371	388	401	383	12.4	12.9	12.3	12.5	12.8	12.3	.7	.6	.7	.7	.6	.7
Indiana	691	689	680	698	697	702	10.6	10.2	10.5	10.5	10.0	9.9	1.2	1.1	1.1	1.3	1.2	1.2
Kutztown	305	347	347	380	345	345	11.7	12.6	11.7	11.2	11.4	11.5	.4	.5	.5	.7	.6	.6
Lock Haven	172	171	182	193	203	205	11.2	12.1	11.5	12.2	12.0	12.5	na	na	a	a	a	.1
Mansfield	173	166	170	172	171	171	9.6	10.3	10.5	11.8	10.9	10.5	.3	.6	.6	.5	.5	.3
Millersville	314	308	313	328	330	290	11.1	10.8	11.5	11.1	11.4	10.8	.6	.6	.7	.6	.6	.8
Shippensburg	317	310	305	310	312	310	9.7	9.8	9.5	9.6	9.7	9.7	1.0	.9	.9	.9	.9	.9
Slippery Rock	347	350	361	368	373	366	11.2	11.6	11.5	10.9	10.8	11.0	.6	.6	.7	.7	.8	.7
West Chester	414	445	440	433	543	548	10.4	10.7	10.2	10.2	10.4	10.6	1.3	1.4	1.7	1.6	1.6	1.6
Total	4,318	4,407	4,510	4,613	4,681	4,683	10.8	11.0	10.8	10.8	10.8	10.8	.8	.8	.9	.9	.9	.9
All universities	9,940	10,161	10,429	10,512	10,627	10,593	8.0	8.0	7.9	7.9	7.9	7.9	1.9	1.8	1.8	1.8	1.8	2.0

1. Average calculated using the full-time employed faculty in the fall term who reported a complete workweek of 100 hours or less.

2. The number of full-time employed faculty represents those reported by each university for the fall term; sabbatical and other on-leave faculty are not included. For West Chester from 1987 to 1990 based on the academic year; for 1991 and 1992, based on the fall term.

a. The graduate program was not included prior to Fall 1992.  
na. Not applicable.

SOURCE: Reports provided by the individual universities, 1988 to 1993.

Historical Table 5

**AVERAGE INSTRUCTIONAL SALARIES OF FULL-TIME EQUIVALENT INSTRUCTIONAL FACULTY BY RANK<sup>1</sup>**  
 1987-88 to 1992-93  
 (Dollars in thousands)

University	FTE instructional faculty	Average instructional salaries					Instructor	No rank <sup>2</sup>
		All faculty	Professor	Associate professor	Assistant professor			
<b>State-related</b>								
<b>Lincoln</b>								
1987-88	93	\$21.4	\$29.3	\$25.4	\$21.1	\$19.6	\$15.9	
1988-89	92	23.1	34.3	29.0	23.2	19.6	15.9	
1989-90	101	24.5	36.0	29.7	23.4	16.4	17.4	
1990-91	109	23.5	32.6	29.1	22.0	17.4	19.5	
1991-92	110	25.7	36.0	31.2	24.7	19.3	18.7	
1992-93	95	29.8	37.7	33.9	28.3	23.6	25.6	
<b>Penn State</b>								
1987-88	3,282	31.2	50.6	38.0	30.5	21.0	22.5	
1988-89	3,356	33.3	54.5	40.3	32.5	22.6	24.0	
1989-90	3,392	36.0	59.0	42.9	35.2	24.1	25.6	
1990-91	3,426	37.7	62.5	44.8	36.8	27.6	25.6	
1991-92	3,471	38.8	63.6	47.0	38.0	27.2	25.9	
1992-93	3,456	40.0	66.3	48.0	39.1	28.4	26.6	
<b>Pittsburgh</b>								
1987-88	1,790	32.0	48.1	34.8	26.9	17.5	25.3	
1988-89	1,731	33.7	51.9	37.2	28.9	18.1	25.8	
1989-90	1,748	35.9	55.8	39.7	31.4	19.7	27.1	
1990-91	1,739	37.7	58.5	41.6	32.9	21.0	28.6	
1991-92	1,767	40.3	62.9	44.4	35.3	23.2	30.6	
1992-93	1,877	41.5	63.1	45.3	36.2	24.6	31.8	
<b>Temple</b>								
1987-88	1,570	29.5	43.7	34.2	27.9	16.0	17.1	
1988-89	1,533	30.4	45.0	35.7	30.6	17.6	17.6	
1989-90	1,559	31.9	48.1	37.5	31.2	17.9	18.3	
1990-91	1,509	32.8	48.0	37.8	32.6	19.0	21.2	
1991-92	1,545	36.1	55.1	42.6	34.7	19.2	21.5	
1992-93	1,532	38.2	58.5	45.7	36.9	19.1	21.3	
<b>State-owned</b>								
<b>Bloomsburg</b>								
1987-88	361	32.8	42.2	34.4	27.6	22.4	na	
1988-89	357	35.3	44.9	37.2	29.1	23.6	na	
1989-90	371	37.7	47.8	38.9	31.2	24.8	na	
1990-91	374	41.8	52.2	43.2	35.0	26.1	na	
1991-92	385	42.0	53.8	43.2	34.9	27.9	na	
1992-93	389	43.3	56.0	45.1	35.7	28.6	na	
<b>California</b>								
1987-88	280	36.1	44.9	37.6	29.1	14.6	27.7	
1988-89	290	35.7	44.3	37.5	29.7	22.1	28.0	
1989-90	309	39.2	49.4	40.6	32.1	22.3	33.2	
1990-91	319	39.2	50.2	42.3	32.3	21.3	28.0	
1991-92	306	44.6	56.7	46.8	36.5	27.8	77.9	
1992-93	309	45.3	59.8	47.7	37.6	24.0	45.9	
<b>Cheyney</b>								
1987-88	112	37.7	43.8	37.8	29.1	23.3	15.4	
1988-89	92	41.0	51.7	37.3	34.9	25.1	39.0	
1989-90	99	43.9	51.0	40.7	37.2	33.4	79.7	
1990-91	91	46.3	53.4	44.2	37.1	32.8	41.3	
1991-92	85	47.5	56.8	46.2	39.9	30.9	na	
1992-93	87	46.8	58.1	45.6	40.1	37.5	31.6	
<b>Clarion</b>								
1987-88	302	34.7	42.3	35.1	29.1	23.1	23.4	
1988-89	336	35.6	45.3	36.5	29.6	22.6	8.7	
1989-90	345	38.3	49.5	40.2	31.8	24.3	28.4	
1990-91	354	40.4	51.4	42.0	33.2	23.8	18.8	
1991-92	348	43.3	54.4	44.2	35.9	28.0	34.2	
1992-93	333	45.6	58.8	47.4	37.8	28.0	39.4	
<b>East Stroudsburg</b>								
1987-88	261	32.9	40.3	32.1	24.6	20.6	na	
1988-89	265	35.2	42.5	34.0	28.0	24.8	14.5	
1989-90	282	27.0	45.0	36.1	30.5	18.6	46.1	
1990-91	285	29.1	47.4	38.6	30.8	27.0	na	
1991-92	284	41.0	50.4	40.2	32.0	25.7	na	
1992-93	294	44.1	54.9	43.9	33.6	23.9	na	



<b>Edinboro</b>							
1987-88	322	34.8	40.6	33.5	27.5	23.2	36.1
1988-89	361	36.9	45.4	35.9	28.5	22.2	35.4
1989-90	405	37.6	46.4	39.4	30.4	23.4	na
1990-91	426	38.4	48.6	39.6	31.0	24.6	na
1991-92	437	40.3	51.7	42.2	33.3	26.7	na
1992-93	416	44.4	56.8	46.3	36.6	29.7	na
<b>Indiana</b>							
1987-88	691	33.2	41.5	34.1	27.9	20.3	21.8
1988-89	673	36.1	45.3	36.5	29.7	23.2	17.6
1989-90	681	39.0	47.7	39.1	32.4	23.8	26.4
1990-91	697	41.0	50.1	41.0	33.2	26.8	61.2
1991-92	704	44.2	54.5	44.7	36.2	25.8	28.7
1992-93	713	46.3	56.2	47.4	38.8	26.5	26.3
<b>Kutztown</b>							
1987-88	354	35.7	44.5	35.9	29.7	24.1	35.0
1988-89	338	37.9	46.7	38.8	31.4	24.6	41.5
1989-90	354	39.8	48.9	40.5	33.2	25.8	58.0
1990-91	366	41.8	53.1	42.9	34.6	26.5	61.0
1991-92	378	43.4	55.5	44.9	36.9	27.7	73.2
1992-93	363	47.9	59.6	48.5	38.5	29.8	71.3
<b>Lock Haven</b>							
1987-88	158	37.4	45.2	36.4	28.9	23.8	20.2
1988-89	159	39.1	48.9	39.5	30.5	24.3	18.7
1989-90	168	39.3	50.7	40.8	31.6	23.3	26.3
1990-91	188	40.3	53.2	42.2	33.1	23.8	22.0
1991-92	199	43.2	58.7	47.3	35.2	27.9	14.4
1992-93	194	44.6	60.8	49.4	37.5	31.4	0.0
<b>Mansfield</b>							
1987-88	149	35.3	44.4	36.1	29.5	18.8	na
1988-89	162	37.2	46.8	37.4	30.9	22.3	na
1989-90	170	38.9	48.5	40.6	33.4	24.2	na
1990-91	170	40.5	51.6	42.2	34.9	21.3	na
1991-92	176	42.5	55.0	44.6	36.6	26.6	na
1992-93	175	46.7	61.8	49.9	40.2	27.7	na
<b>Millersville</b>							
1987-88	349	34.2	42.5	35.6	27.5	19.4	na
1988-89	348	36.2	44.8	37.6	29.6	20.5	na
1989-90	355	38.6	48.5	40.5	32.5	23.7	na
1990-91	372	40.2	51.0	42.8	33.4	24.4	na
1991-92	366	43.0	55.1	45.3	36.9	24.9	na
1992-93	355	47.2	60.7	49.6	38.6	26.3	30.7
<b>Shippensburg</b>							
1987-88	300	35.9	42.7	34.4	28.7	23.5	na
1988-89	307	38.3	44.8	36.0	30.7	24.8	na
1989-90	308	41.8	48.7	39.1	32.8	26.1	na
1990-91	313	44.3	51.2	41.8	34.6	26.4	na
1991-92	315	46.5	54.2	43.9	35.6	27.1	na
1992-93	311	49.9	58.8	48.0	38.2	29.1	30.2
<b>Slippery Rock</b>							
1987-88	343	35.2	43.3	35.1	28.4	23.8	26.7
1988-89	373	37.7	45.6	39.4	30.1	26.9	na
1989-90	383	40.7	49.0	39.8	31.9	27.1	49.6
1990-91	397	39.8	50.1	39.1	33.2	27.7	6.4
1991-92	389	42.1	52.1	42.4	34.5	28.6	48.1
1992-93	384	47.3	58.4	45.9	39.4	33.9	68.3
<b>West Chester</b>							
1987-88	493	33.1	41.8	35.1	27.5	20.2	33.3
1988-89	521	36.5	47.1	38.5	30.3	21.8	52.0
1989-90	556	38.6	50.2	41.6	32.0	22.8	63.5
1990-91	572	40.2	53.9	43.7	33.7	23.6	56.2
1991-92	576	43.5	58.7	47.9	36.6	26.6	27.7
1992-93	576	45.0	60.8	49.8	38.9	26.6	18.0

1. Average instructional salaries are calculated by dividing the total instructional salaries paid to all staff members in the respective rank categories by their total full-time equivalency in the instructional function. One full-time equivalent faculty represents one full-time workload for two terms (one academic year). The summer term is treated as one term or one-half the academic year. Data for each year represent the summer term preceding the academic year plus the academic year.

2. The full-time equivalency of nonranked faculty members is based on the time spent in instruction by all nonranked personnel, including lecturers, administrators, librarians, research staff, graduate assistants and volunteers.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1988 to 1993.

Historical Table 6

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>  
1987-88 to 1992-93

University	Lower division						Upper division						Total undergraduate						Master's					
	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93
<b>State-related</b>																								
Lincoln	\$1,266	\$1,360	\$1,554	\$1,496	\$1,487	\$1,533	\$2,497	\$2,609	\$2,644	\$3,025	\$3,015	\$2,719	\$1,513	\$1,612	\$1,809	\$1,852	\$1,838	\$1,821	\$1,614	\$1,571	\$1,579	\$1,160	\$1,788	\$2,062
Penn State	1,013	1,079	1,152	1,196	1,286	1,328	1,816	1,920	2,047	2,095	2,131	2,283	1,268	1,357	1,468	1,524	1,598	1,670	2,808	3,077	3,167	3,135	3,299	3,362
Pittsburgh	1,064	1,044	1,126	1,216	1,356	1,491	1,986	2,025	2,072	2,140	2,230	2,580	1,382	1,372	1,438	1,518	1,650	1,858	3,608	3,759	3,995	4,173	4,539	4,476
Temple	1,216	1,180	1,168	1,283	1,312	1,454	1,692	1,658	1,684	1,785	1,902	2,108	1,441	1,394	1,411	1,537	1,621	1,805	2,679	2,657	2,712	2,541	2,642	2,994
<b>Total</b>	<b>1,062</b>	<b>1,092</b>	<b>1,154</b>	<b>1,218</b>	<b>1,310</b>	<b>1,388</b>	<b>1,823</b>	<b>1,870</b>	<b>1,961</b>	<b>2,032</b>	<b>2,097</b>	<b>2,296</b>	<b>1,331</b>	<b>1,371</b>	<b>1,454</b>	<b>1,529</b>	<b>1,617</b>	<b>1,739</b>	<b>3,102</b>	<b>3,232</b>	<b>3,352</b>	<b>3,370</b>	<b>3,602</b>	<b>3,706</b>
<b>State-owned</b>																								
Bloomsburg	1,439	1,508	1,585	1,758	1,745	1,851	2,356	2,621	2,852	2,986	3,029	2,971	1,711	1,851	1,958	2,118	2,135	2,206	2,350	2,191	2,317	2,651	2,891	3,687
California	1,401	1,345	1,494	1,585	1,702	1,790	2,392	2,176	2,402	2,470	2,768	3,095	1,710	1,610	1,790	1,882	2,032	2,198	3,072	3,044	3,290	3,320	3,535	3,151
Cheyney	2,268	2,497	2,486	2,604	2,680	2,521	4,313	4,197	4,091	3,860	3,891	4,126	2,707	2,862	2,875	2,953	3,021	2,916	3,680	4,297	3,787	2,215	2,389	2,477
Clarion	1,563	1,450	1,571	1,742	1,906	2,034	2,573	2,896	3,273	3,391	3,659	3,603	1,699	1,848	2,041	2,224	2,433	2,510	2,514	2,748	2,881	3,126	3,467	3,966
East Stroudsburg	1,491	1,532	1,620	1,694	1,792	2,039	3,034	3,044	3,209	3,202	3,394	3,605	1,859	1,898	2,013	2,093	2,224	2,484	1,494	2,271	1,776	1,898	2,003	2,338
Edinboro	1,555	1,620	1,734	1,740	1,800	1,879	2,285	2,694	2,924	2,930	3,230	3,289	1,769	1,909	2,047	2,072	2,222	2,317	2,971	3,385	3,802	3,780	3,713	4,198
Indiana	1,188	1,303	1,361	1,433	1,482	1,649	2,327	2,549	2,716	2,834	3,043	3,207	1,558	1,700	1,787	1,877	1,991	2,173	4,278	4,084	3,971	4,150	4,585	4,972
Kutztown	1,305	1,415	1,476	1,536	1,687	1,849	3,096	3,041	3,093	3,228	3,250	3,458	1,853	1,929	2,001	2,098	2,227	2,435	2,476	2,640	2,793	2,924	3,510	3,783
Lock Haven	1,641	1,561	1,639	1,705	1,906	1,955	3,167	3,498	3,202	3,322	3,675	3,404	2,084	2,099	2,082	2,157	2,392	2,344	na	na	a	a	a	9,969
Mansfield	1,271	1,390	1,488	1,582	1,683	1,822	3,683	4,157	3,974	3,696	3,816	4,098	1,919	2,082	2,126	2,176	2,329	2,537	3,722	2,844	2,907	3,169	3,039	3,482
Millersville	1,406	1,432	1,599	1,722	1,934	2,036	2,795	2,749	2,779	2,934	2,901	3,123	1,764	1,804	1,941	2,075	2,236	2,406	2,182	1,956	2,026	2,387	2,481	2,542
Shippensburg	1,540	1,602	1,737	1,884	1,940	2,004	2,194	2,560	2,852	2,963	3,048	3,611	1,718	1,857	2,022	2,181	2,252	2,471	2,784	3,507	3,693	3,787	3,620	3,348
Slippery Rock	1,431	1,561	1,710	1,723	1,782	2,009	2,735	3,166	3,478	3,240	3,101	3,499	1,762	1,949	2,134	2,120	2,166	2,456	3,444	3,423	2,920	2,266	2,369	2,624
West Chester	1,328	1,612	1,783	1,825	1,953	2,117	2,061	2,461	2,594	2,708	2,951	3,031	1,544	1,874	2,049	2,118	2,296	2,456	2,630	3,001	3,262	3,270	3,761	3,653
<b>Total</b>	<b>1,405</b>	<b>1,495</b>	<b>1,606</b>	<b>1,692</b>	<b>1,786</b>	<b>1,922</b>	<b>2,559</b>	<b>2,771</b>	<b>2,934</b>	<b>3,005</b>	<b>3,157</b>	<b>3,328</b>	<b>1,736</b>	<b>1,860</b>	<b>1,990</b>	<b>2,083</b>	<b>2,210</b>	<b>2,370</b>	<b>2,834</b>	<b>2,980</b>	<b>3,051</b>	<b>3,053</b>	<b>3,279</b>	<b>3,496</b>
<b>All universities</b>	<b>1,223</b>	<b>1,283</b>	<b>1,373</b>	<b>1,452</b>	<b>1,544</b>	<b>1,648</b>	<b>2,114</b>	<b>2,223</b>	<b>2,343</b>	<b>2,421</b>	<b>2,524</b>	<b>2,722</b>	<b>1,512</b>	<b>1,589</b>	<b>1,697</b>	<b>1,785</b>	<b>1,890</b>	<b>2,030</b>	<b>3,005</b>	<b>3,141</b>	<b>3,232</b>	<b>3,247</b>	<b>3,478</b>	<b>3,629</b>

1. The average instructional faculty salary cost per full-time equivalent student for each level is calculated as follows: the instructional salary for each rank is assigned by level according to the percentage distribution of the course (assigned) credits within each rank. The salary for each rank is summed by level and divided by total full-time equivalent students for that level. For individual instruction, one course (assigned) credit is attributed to every three student credit hours generated.

a. The master's program was not included prior to 1992-93.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1988 to 1993.

Historical Table 7

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER STUDENT CREDIT HOUR BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>  
1987-88 to 1992-93

University	Lower division						Upper division						Total undergraduate						Master's						
	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	
State-related																									
Lincoln	\$42	\$45	\$52	\$50	\$50	\$51	\$83	\$87	\$95	\$101	\$100	\$91	\$50	\$54	\$60	\$62	\$61	\$61	\$67	\$66	\$66	\$48	\$74	\$86	
Penn State	34	36	38	40	43	44	61	64	68	70	71	76	42	45	40	51	53	56	117	128	132	131	137	140	
Pittsburgh	35	35	38	41	45	50	66	68	69	71	74	86	46	46	48	51	55	62	150	157	166	174	189	187	
Temple	41	39	39	43	44	48	56	55	56	60	63	70	48	46	47	51	54	60	112	111	113	106	110	125	
Total	35	36	38	41	44	46	61	62	65	68	70	77	44	46	48	51	54	58	129	135	140	140	150	154	
State-owned																									
Bloomsburg	48	50	53	59	58	62	79	87	95	100	101	99	57	61	65	71	71	74	98	91	97	110	120	154	
California	47	45	50	53	57	60	80	73	80	82	92	103	57	54	60	63	68	73	128	127	137	158	147	131	
Cheyney	76	83	83	87	89	84	144	140	136	129	130	137	90	95	96	98	101	97	153	180	158	92	100	103	
Clarion	45	48	52	56	64	68	86	97	109	113	122	120	57	62	68	74	81	84	105	114	120	130	144	165	
East Stroudsburg	50	51	54	56	60	68	101	101	107	107	113	120	62	63	67	70	74	85	62	95	74	79	83	97	
Edinboro	52	54	58	58	60	63	76	90	97	98	108	110	59	64	68	69	74	77	124	141	158	156	155	175	
Indiana	40	43	45	48	49	55	78	85	91	94	101	107	52	57	60	63	66	72	178	170	165	173	183	207	
Kutztown	44	47	49	51	56	62	103	101	103	108	108	115	62	64	67	70	74	81	103	110	116	122	146	158	
Lock Haven	55	52	55	57	64	65	106	117	107	111	123	113	69	70	69	72	80	78	na	na	a	a	a	415	
Mansfield	42	46	50	53	56	61	123	139	132	123	127	137	64	69	71	72	78	85	155	119	121	132	127	145	
Millerwife	47	48	53	57	64	68	93	92	93	98	97	104	59	60	65	69	75	80	91	82	84	100	103	106	
Shippensburg	51	53	58	63	65	67	73	85	95	99	102	120	57	62	67	73	75	82	116	146	154	158	151	139	
Slippery Rock	48	52	57	57	59	67	91	106	116	108	103	117	59	65	71	71	72	82	144	143	122	95	99	109	
West Chester	44	54	59	61	65	71	69	82	86	90	98	103	51	62	68	71	77	82	110	125	136	136	157	152	
Total	47	50	54	56	60	64	85	92	98	100	105	111	58	62	66	69	74	79	118	124	126	127	137	146	
All universities	41	43	46	48	51	55	70	74	78	81	84	91	50	53	57	59	63	68	125	131	135	135	145	151	

1. The average instructional faculty salary cost per student credit hour for each level is calculated as follows: the instructional salary for each rank is assigned by level according to the percentage distribution of the course (assigned) credits within each rank. The salary for each rank is summed by level and divided by the total student credit-hour production for that level. For individual instruction, one course (assigned) credit is attributed to every three student credit hours generated. Instructional faculty salary cost per student credit hour equals instructional faculty salary cost per FTE student divided by 30 for undergraduate students, and divided by 24 for graduate students (see Historical Table 6).

a. The master's program was not included prior to 1992-93.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1988 to 1993.

Historical Table 8

AVERAGE CLASS SIZES IN CLASSROOM INSTRUCTION BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>  
1987-88 to 1992-93

University	Lower division						Upper division						Total undergraduate						Master's						
	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	
<b>State-related</b>																									
Lincoln	21	21	21	22	23	24	11	12	13	13	13	15	18	18	19	19	20	21	13	14	15	16	14	14	
Penn State	31	31	31	31	31	31	28	29	28	28	29	27	30	30	30	30	30	30	15	15	15	14	14	14	
Pittsburgh	32	33	32	30	31	31	27	27	26	25	28	27	30	31	30	28	30	29	18	18	18	17	18	19	
Temple	25	26	27	26	27	27	23	24	25	24	25	24	24	25	26	25	26	25	13	13	14	15	16	16	
<b>Total</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>26</b>	<b>27</b>	<b>26</b>	<b>26</b>	<b>27</b>	<b>26</b>	<b>28</b>	<b>29</b>	<b>29</b>	<b>28</b>	<b>29</b>	<b>28</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>16</b>	<b>16</b>	
<b>State-owned</b>																									
Bloomsburg	23	25	25	26	25	25	16	17	16	18	18	18	21	22	21	23	23	22	12	14	13	13	13	11	
California	29	31	30	28	29	29	18	19	19	19	18	18	25	26	25	24	25	24	10	12	11	11	11	13	
Cheyney	20	19	20	21	22	23	10	11	11	15	15	14	16	17	17	19	20	20	8	13	14	19	18	18	
Clarion	35	36	36	34	33	33	17	17	16	16	15	17	27	28	27	25	25	26	13	13	13	13	12	13	
East Stroudsburg	28	28	29	28	28	27	16	16	16	17	17	17	24	24	24	24	24	23	19	16	20	23	23	19	
Edinboro	27	27	26	27	26	28	18	16	15	16	17	18	24	23	22	23	23	24	10	9	9	9	10	10	
Indiana	31	31	31	32	32	30	17	17	17	17	17	17	25	25	25	25	25	24	7	8	9	9	10	10	
Kutztown	30	29	30	29	28	28	14	16	16	16	16	17	23	23	24	23	23	23	13	14	13	13	13	12	
Lock Haven	28	28	28	28	27	28	17	12	13	12	12	17	24	21	21	20	20	24	na	na	a	a	a	4	
Mansfield	28	28	29	28	27	27	8	8	9	10	9	10	16	17	18	18	17	17	8	8	9	9	9	9	
Millersville	25	25	24	23	25	26	13	13	13	14	17	17	20	20	19	19	22	22	12	13	12	13	14	14	
Shippensburg <sup>2</sup>	28	32	29	28	29	28	21	23	19	20	21	16	26	29	25	25	26	23	12	13	10	13	14	14	
Slippery Rock	29	30	29	30	31	31	15	15	14	16	17	16	23	24	24	25	25	25	10	13	15	18	18	17	
West Chester	25	24	24	24	24	24	17	16	16	16	16	15	22	21	21	20	20	20	10	10	11	12	11	12	
<b>Total</b>	<b>28</b>	<b>28</b>	<b>28</b>	<b>28</b>	<b>28</b>	<b>28</b>	<b>16</b>	<b>16</b>	<b>15</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>23</b>	<b>23</b>	<b>23</b>	<b>23</b>	<b>23</b>	<b>23</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>13</b>	
<b>All universities</b>	<b>29</b>	<b>29</b>	<b>29</b>	<b>29</b>	<b>29</b>	<b>29</b>	<b>21</b>	<b>21</b>	<b>21</b>	<b>21</b>	<b>21</b>	<b>21</b>	<b>26</b>	<b>26</b>	<b>26</b>	<b>25</b>	<b>26</b>	<b>25</b>	<b>13</b>	<b>13</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>15</b>	

1. Average class size for each level is calculated by dividing total classroom student credit hours by total classroom course (assigned) credits.  
 2. 1992-93 class size for upper division and total undergraduate is not comparable with those for previous years because of a change in reporting student teaching.  
 a. The master's program was not included prior to 1992-93.  
 na. Not applicable.

SOURCE: Reports provided by the individual universities, 1988 to 1993.

Historical Table 9  
**COMMONWEALTH APPROPRIATIONS FOR INSTRUCTION<sup>1</sup>**  
 1987-88 to 1992-93  
 (in millions)

University	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93
<b>State-related</b>						
Lincoln <sup>2</sup>	\$7.9	\$8.3	\$9.0	\$9.0	\$9.3	\$9.3
Penn State	142.8	150.6	178.6	181.1	189.3	189.3
Pittsburgh <sup>3</sup>	98.6	104.0	114.6	115.1	119.3	119.3
Temple	107.2	113.1	123.3	123.3	128.1	128.1
<b>Total</b>	<b>356.5</b>	<b>376.0</b>	<b>425.5</b>	<b>428.5</b>	<b>446.0</b>	<b>446.0</b>
<b>State-owned</b>						
Bloomsburg	22.4	23.7	26.0	26.3	28.3	27.3
California	18.2	19.4	21.6	22.6	24.3	23.4
Cheyney	12.4	12.5	12.5	12.5	12.8	12.3
Clarion	20.6	21.7	23.3	23.8	25.6	24.7
East Stroudsburg	16.7	17.3	18.8	19.1	20.6	19.9
Edinboro	21.1	21.7	23.4	24.4	26.3	25.4
Indiana	41.9	43.8	47.1	47.4	51.0	49.3
Kutztown	20.7	22.1	24.5	25.1	27.1	26.1
Lock Haven	12.5	13.0	14.0	14.3	15.4	14.9
Mansfield	12.9	13.2	14.0	13.9	15.1	14.6
Millersville	22.3	23.6	25.8	26.5	28.6	27.6
Shippensburg	20.0	21.2	23.0	23.0	24.8	23.9
Slippery Rock	22.3	23.7	25.6	26.2	28.3	27.3
West Chester	29.9	31.9	35.4	36.4	39.3	37.9
<b>Total<sup>4</sup></b>	<b>293.9</b>	<b>308.8</b>	<b>335.0</b>	<b>341.5</b>	<b>367.5</b>	<b>354.6</b>
<b>All universities<sup>4</sup></b>	<b>650.4</b>	<b>684.8</b>	<b>760.5</b>	<b>770.0</b>	<b>813.5</b>	<b>800.6</b>

1. Instructional appropriations include Tuition Challenge Grants for 1989-90 and 1990-91 only.

2. Includes 1987-88 appropriation for desegregation.

3. Includes appropriations for branch campuses - Bradford, Johnstown and Titusville.

4. Excludes amount of appropriation allocated to Board of Governors/Chancellor's Office and System Reserve of the State System of Higher Education.

SOURCE: Governor's Executive Budget, 1989-90 to 1993-94, State System of Higher Education, Commonwealth of Pennsylvania, 1988 to 1993; and individual State-related universities, 1992 and 1993.

Histori

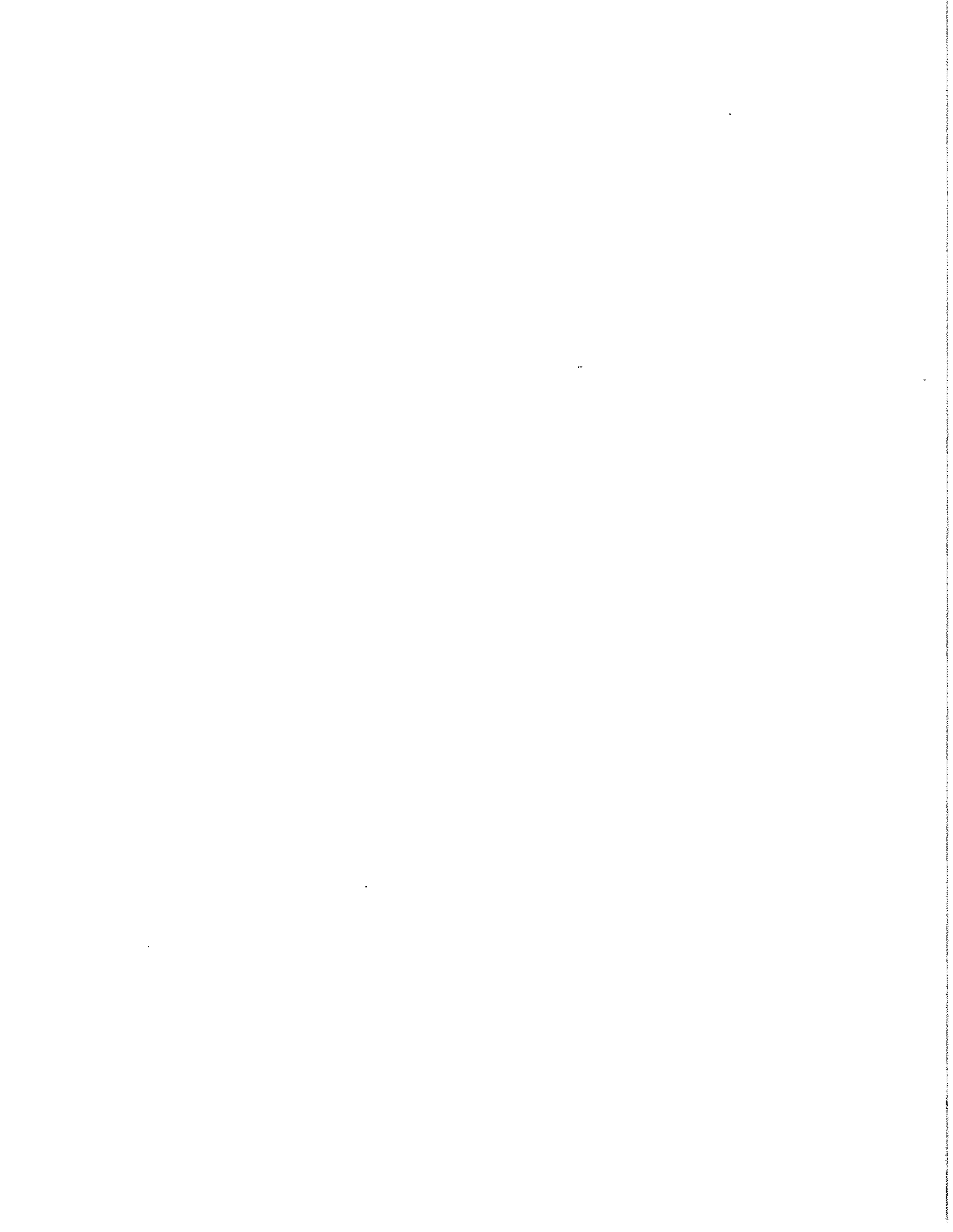
ACADEMIC YEAR TUITION AND REQUIRED FEES FOR FULL-TIME STUDENTS  
BY ACADEMIC LEVEL AND RESIDENCE  
1987-88 to 1992-93

University	Undergraduate		Graduate <sup>1</sup>	
	In-State	Out-of-State	In-State	Out-of-State
<b>State-related</b>				
<b>Lincoln</b>				
1987-88	\$2,130	\$3,130	\$2,500	\$4,000
1988-89	2,400	3,500	3,250	4,850
1989-90	2,400	3,500	3,250	4,850
1990-91	2,510	3,730	3,500	5,200
1991-92	2,710	4,030	4,175	5,975
1992-93	2,960	4,380	4,375	6,275
<b>Penn State</b>				
<b>Main Campus</b>				
1987-88	3,292	6,610	3,510	7,016
1988-89	3,610	7,248	3,850	7,694
1989-90	3,754	7,900	4,198	8,588
1990-91	4,048	8,444	4,520	8,960
1991-92	4,402	9,188	4,916	9,762
1992-93	4,618	9,644	5,158	10,246
<b>Pittsburgh</b>				
<b>Main Campus</b>				
1987-88	3,486	6,836	4,202	8,322
1988-89	3,836	7,516	4,632	9,162
1989-90	4,086	8,106	5,046	9,876
1990-91	4,314	8,886	5,528	10,836
1991-92	4,666	9,516	6,166	12,006
1992-93	4,922	10,066	6,516	12,706
<b>Temple</b>				
1987-88	3,564	6,222	3,938	4,922
1988-89	3,894	6,802	4,298	5,378
1989-90	4,046	7,308	4,610	5,786
1990-91	4,354	7,952	5,040	6,312
1991-92	4,756	8,696	5,736	7,152
1992-93	5,008	9,222	5,828	7,340
<b>State-owned</b>				
<b>Bloomsburg</b>				
1987-88	1,990	3,426	1,890	2,100
1988-89	2,290	3,712	2,190	2,462
1989-90	2,398	4,254	2,288	2,758
1990-91	2,518	4,532	2,408	3,014
1991-92	2,968	5,232	2,858	3,584
1992-93	3,068	6,462	2,958	4,426
<b>California</b>				
1987-88	2,120	3,556	2,120	2,330
1988-89	2,500	3,922	2,500	2,772
1989-90	2,548	4,404	2,548	2,968
1990-91	2,648	4,682	2,648	3,254
1991-92	3,128	5,392	2,900	3,626
1992-93	3,384	6,778	3,258	4,726
<b>Cheyney</b>				
1987-88	2,030	3,466	2,010	2,220
1988-89	2,340	3,702	2,250	2,527
1989-90	2,388	4,244	2,303	2,728
1990-91	2,488	4,522	2,383	2,989
1991-92	2,838	5,102	2,733	3,459
1992-93	2,938	6,332	2,833	4,301
<b>Clarion</b>				
1987-88	2,038	3,474	1,984	2,194
1988-89	2,358	3,780	2,204	2,576
1989-90	2,418	4,274	2,328	2,748
1990-91	2,661	4,787	2,541	3,169
1991-92	3,147	5,500	3,079	3,836
1992-93	3,328	6,830	3,253	4,809
<b>East Stroudsburg</b>				
1987-88	1,904	3,340	1,900	2,110
1988-89	2,214	3,636	2,210	2,482
1989-90	2,392	4,248	2,324	2,740
1990-91	2,642	4,676	2,502	3,108
1991-92	3,088	5,352	2,934	3,660
1992-93	3,352	6,746	3,196	4,662

<b>Edinboro</b>				
1987-88	2,120	3,556	2,096	2,306
1988-89	2,390	3,812	2,384	2,656
1989-90	2,438	4,294	2,432	2,852
1990-91	2,590	4,624	2,572	3,178
1991-92	3,013	5,277	2,995	3,721
1992-93	3,161	6,555	3,131	4,599
<b>Indiana</b>				
1987-88	2,054	3,490	1,978	2,188
1988-89	2,269	3,691	2,231	2,503
1989-90	2,484	4,340	2,404	2,728
1990-91	2,604	4,638	2,520	3,126
1991-92	3,055	5,519	2,971	3,697
1992-93	3,157	6,551	2,969	4,437
<b>Kutztown</b>				
1987-88	2,022	3,458	1,902	2,112
1988-89	2,322	3,744	2,202	2,474
1989-90	2,380	4,236	2,250	2,670
1990-91	2,480	4,514	2,350	2,956
1991-92	3,022	5,342	2,772	3,516
1992-93	3,160	6,639	2,880	4,385
<b>Lock Haven</b>				
1987-88	1,995	3,431	na	na
1988-89	2,190	3,612	na	na
1989-90	2,358	4,214	a	a
1990-91	2,468	4,502	a	a
1991-92	3,020	5,397	a	a
1992-93	3,261	6,655	3,261	4,729
<b>Mansfield</b>				
1987-88	2,055	3,491	1,980	2,140
1988-89	2,355	3,777	2,230	2,502
1989-90	2,435	4,309	2,318	2,738
1990-91	2,587	4,621	2,452	3,058
1991-92	2,947	5,211	2,812	3,538
1992-93	3,168	6,562	3,028	4,496
<b>Millersville</b>				
1987-88	2,040	3,476	1,934	2,144
1988-89	2,350	3,772	2,234	2,506
1989-90	2,536	4,392	2,457	2,877
1990-91	2,636	4,670	2,686	3,242
1991-92	3,100	5,364	3,100	3,826
1992-93	3,488	6,882	3,488	4,956
<b>Shippensburg</b>				
1987-88	2,066	3,502	1,960	2,170
1988-89	2,396	3,818	2,290	2,562
1989-90	2,444	4,300	2,338	2,758
1990-91	2,694	4,728	2,588	3,194
1991-92	3,108	5,572	2,978	3,704
1992-93	3,388	6,782	3,258	4,726
<b>Slippery Rock</b>				
1987-88	2,116	3,552	2,116	2,326
1988-89	2,442	3,864	2,442	2,714
1989-90	2,504	4,860	2,504	2,924
1990-91	2,554	4,588	2,554	3,160
1991-92	3,045	5,423	3,045	3,808
1992-93	3,287	6,681	3,287	4,755
<b>West Chester</b>				
1987-88	1,985	3,421	1,897	2,107
1988-89	2,250	3,672	2,250	2,522
1989-90	2,398	4,254	2,398	2,818
1990-91	2,398	4,432	2,398	3,004
1991-92	2,918	5,182	2,918	3,644
1992-93	3,158	6,522	3,040	4,508

1. Excludes first-professional level.
- a. The graduate program was not included prior to 1992-93.
- na. Not applicable.

SOURCE: Pennsylvania Department of Education, Basic Student Charges at Institutions of Higher Education, 1987-88 and Colleges and Universities--Basic Student Charges, 1988-89 to 1992-93.





## APPENDIX: MODEL OF FTE SALARY COST DETERMINATION

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Instructional faculty salary cost per student credit hour, for each academic level and each program area, can be expressed by the following model:

$$\frac{\text{FTE Instructional faculty salaries}}{\text{Student credit hours}} = \left\{ \frac{\text{Number of FTE instructional faculty}}{\text{Number of courses}} \times \frac{\text{Average course (assigned) credit value}}{\text{Average course (assigned) credit value}} \right\} \times \left\{ \frac{\text{Average FTE instructional faculty salary}}{\text{Average class (section) size}} \times \frac{\text{Number of classes (sections)}}{\text{Number of courses}} \right\}$$

The two terms on the right-hand side of this equation illustrate the two different kinds of factors which determine FTE instructional salary cost.

The components of the first term are approximately constants or constant relationships. In the short run, neither the number of faculty per course nor the number of faculty per average course (assigned) credit value can be readily varied to influence FTE instructional salary cost.

The second term contains control variables: average FTE instructional faculty salary, average class (section) size, and the number of classes (sections) per course. To at least some degree, each of these variables can be controlled by university administrators to affect FTE instructional salary cost. Adjustments in the number of classes (sections) per course are an alternative to permitting average class sizes to change with changes in enrollment.

Average instructional faculty salary cost per FTE student, or FTE instructional salary cost, equals the FTE instructional salary cost per student credit hour times 30 for undergraduate students, and times 24 for graduate students.

This model serves as the basis for the regression analysis performed by the Commission staff (see page 5).

