

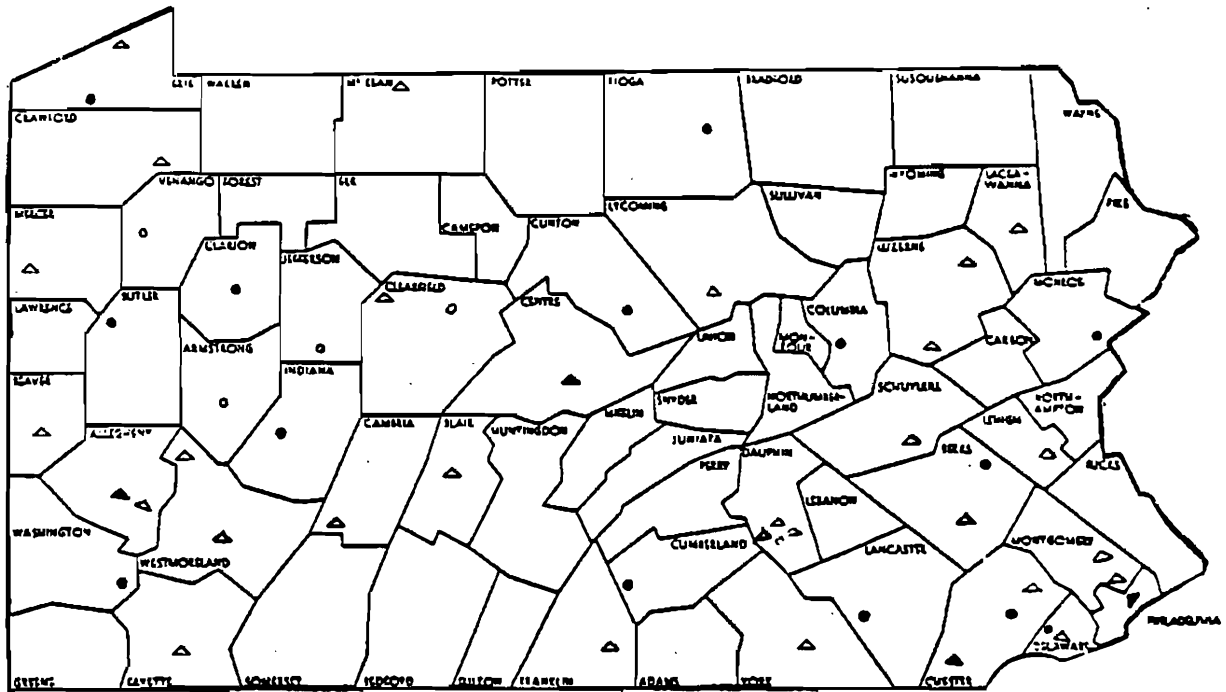
**INSTRUCTIONAL OUTPUT  
AND FACULTY SALARY COSTS  
OF THE STATE-RELATED  
AND STATE-OWNED UNIVERSITIES**

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**Analysis of 1991-92 Data  
Reported Under 1991 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 1993**

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 (Erie)                 | 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)             |   |

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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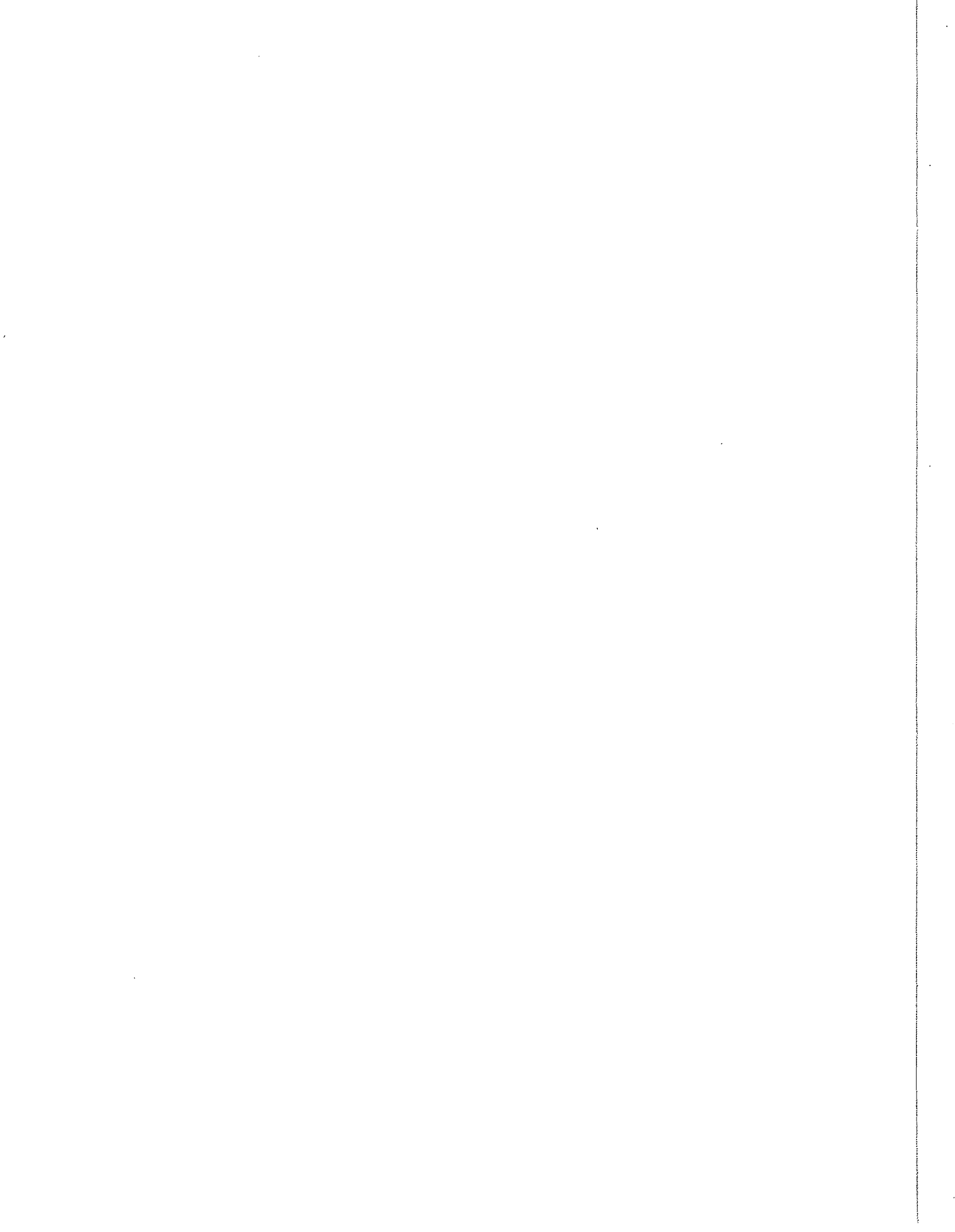
This 20th annual report summarizes the instructional outputs, instructional faculty salary costs, tuitions and Commonwealth appropriations for Pennsylvania's State-related and State-owned universities--the Commonwealth's public universities.

Levels of data for 1991-92 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



# CONTENTS

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STATE-RELATED AND STATE-OWNED UNIVERSITIES AND BRANCH CAMPUSES .....	ii
FOREWORD .....	iii
I. DATA HIGHLIGHTS .....	1
II. CURRENT-YEAR DATA TABLES	
1. Full-Time Equivalent Students by Academic Level .....	11
2. Full-Time Equivalent Students by Academic Division and Level .....	12
3A. Lincoln University - Number and Percentage Distribution of Full-Time Equivalent Students .....	13
3B. The Pennsylvania State University - Number and Percentage Distribution of Full-Time Equivalent Students .....	14
3C. University of Pittsburgh - Number and Percentage Distribution of Full-Time Equivalent Students .....	15
3D. Temple University - Number and Percentage Distribution of Full-Time Equivalent Students .....	16

3E.	State-Owned Universities – Number and Percentage Distribution of Full-Time Equivalent Students .....	17
4.	Degrees Conferred .....	18
5.	Workweeks of Full-Time Employed Faculty by Type of Activity .....	19
6.	Average Instructional Salaries of Full-Time Equivalent Instructional Faculty and Percentage Distribution by Rank .....	20
7.	Average Instructional Faculty Salary Cost Per Full-Time Equivalent Student by Academic Division and Level .....	21
8A.	Lincoln University – Average Instructional Faculty Salary Cost per Full-Time Equivalent Student .....	22
8B.	The Pennsylvania State University – Average Instructional Faculty Salary Cost per Full-Time Equivalent Student .....	23
8C.	University of Pittsburgh – Average Instructional Faculty Salary Cost per Full-Time Equivalent Student .....	24
8D.	Temple University – Average Instructional Faculty Salary Cost per Full-Time Equivalent Student .....	25
8E.	State-Owned Universities – Average Instructional Faculty Salary Cost per Full-Time Equivalent Student .....	26
9.	Average Class Sizes in Classroom Instruction by Academic Division and Level .....	27
10.	Academic Year Tuition and Required Fees for Full-Time Students by Academic Level and Residence .....	28
11.	Tuition and Fee Revenues Related to Full-Time Equivalent Students .....	29
12.	Commonwealth Appropriations for Instruction Related to Full-Time Equivalent Students .....	30

13. Tuition and Fee Revenues, Commonwealth Appropriations for Instruction and Student Aid per Full-Time Equivalent Student .....	31
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III. HISTORICAL DATA

TABLES

1. Full-Time Equivalent Students by Academic Level .....	35
2. Student Credit Hours by Academic Division and Level .....	36
3. Degrees Conferred .....	38
4. Average Weekly Student Contact Hours of Full-Time Employed Faculty by Academic Level .....	39
5. Average Instructional Salaries of Full-Time Equivalent Instructional Faculty by Rank .....	40
6. Average Instructional Faculty Salary Cost Per Full-Time Equivalent Student by Academic Division and Level .....	42
7. Average Instructional Faculty Salary Cost Per Student Credit Hour by Academic Division and Level .....	43
8. Average Class Sizes in Classroom Instruction by Academic Division and Level .....	44
9. Commonwealth Appropriations for Instruction .....	45
10. Academic Year Tuition and Required Fees for Full-Time Students .....	46

APPENDIX: MODEL OF FTE SALARY COST DETERMINATION .....	49
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## I. DATA HIGHLIGHTS

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1. In Fall 1991, a total of 579,553 full- and part-time students were enrolled in the 145 public and private colleges and universities in Pennsylvania. Of this total, 241,788 students (42 percent) were enrolled in the Commonwealth's public universities: 141,938 students (25 percent) in the 4 State-related universities, and 99,850 (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 1990, total student enrollments in all of Pennsylvania's colleges and universities increased by 2 percent, but in the Commonwealth's public universities increased by only 1 percent.<sup>1</sup>
2. During the 1991-92 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 213,924 full-time students: 120,890 full-time equivalent (FTE) students (57 percent) at the State-related universities, and 93,034 (43 percent) at the State-owned universities.<sup>3</sup> (Table 1) FTE students at the public universities increased by 1 percent over the previous year; therefore, the aggregate full- and part-time student mix was not altered appreciably. FTE students vary considerably by academic level at the individual institutions. At Pittsburgh and

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<sup>1</sup>Pennsylvania Department of Education, Colleges and Universities Fall Enrollments, 1991.

<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 1991-92 school year includes the summer and fall terms of 1991 plus the spring term of 1992.

<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 institutions have first professional programs in dentistry and law. In contrast, the proportion of undergraduate FTE students is 87 percent at Lincoln, 90 percent at Penn State and almost 92 percent at the State-owned group. (Table 2) Likewise, the public universities offer diverse programs to students. Most of these institutions have large programs in business and education, in addition to letters and the social sciences. The State-owned institutions have specialized program missions.<sup>5</sup> (Tables 3A through 3E)

3. During the 1991-92 school year, the public universities conferred 41,882 bachelor's and graduate degrees (not including medical degrees): 24,078 degrees (57 percent) by the State-related universities, and 17,804 (43 percent) by the State-owned universities. Total degrees had a one-year increase of 5 percent.<sup>6</sup> (Table 4)
4. Over the past 5 years (since 1986-87), the number of public university FTE students has increased by almost 10 percent, while the Commonwealth's population of 18-to-24-year olds has decreased by almost 9 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, at the University of Pittsburgh, a new Integrated Student Information System was implemented; 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 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. 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, these degrees are not included in this report.

5. In Fall 1991, 10,679 teaching and research faculty were employed full-time by Pennsylvania's public universities: 5,998 full-time faculty (56 percent) by the State-related universities and 4,681 (44 percent) by the State-owned universities.<sup>7</sup> The overall workweek reported by these faculty averaged 53.6 hours: 52.2 total hours at the State-related universities, and 55.3 total hours at the State-owned universities. Hours spent in undergraduate and graduate classroom and individual instruction contact with students averaged 8.2 per week for the State-related group, and 11.7 per week for the State-owned group. (Table 5) Since 1986-87, average total workweeks for both full-time faculty groups have increased slightly; average student contact hours have fallen by about one-half hour per week for the State-related group but have remained constant for the State-owned group.
6. During the 1991-92 school year, the full- and part-time instructional faculty employed by the public universities were the equivalent of 11,841 full-time faculty: 6,893 FTE faculty (58 percent) at the State-related universities, and 4,948 (42 percent) at the State-owned universities.<sup>8</sup> The total FTE faculty had a one-year increase of 1 percent. The salary for these faculty averaged \$38,400 and \$43,200 for the two public university groups, respectively.<sup>9</sup> The average salary had a one-year increase of about 6 percent.<sup>10</sup> The

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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 1991, instructional faculty salaries comprised about 62 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.

<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 faculty. Therefore, changes in average salaries do not necessarily correspond to general salary changes for all faculty members in a given university. Average salary changes also reflect changes in the rank distribution of faculty.

State-owned universities tend to utilize relatively more higher-ranked FTE instructional faculty--professors and associate professors--than do the larger State-related universities; Penn State, Pittsburgh and Temple provide a significant amount of instruction using instructors and non-ranked persons (largely graduate teaching assistants). (Table 6)

7. Since 1986-87, the average salary for the FTE instructional faculty has increased by about \$9,500 (33 percent) at the State-related universities, and about \$11,100 (35 percent) at the State-owned universities. The relative increase in average salary for the State-owned group has tended to widen the gap in average salaries between the two groups of FTE faculty.
8. During the 1991-92 school year, the ratio of FTE students to FTE instructional faculty averaged 17.5 for the State-related universities (a one-year decrease of 1 percent), and 18.8 for the State-owned universities (no change). (Tables 1 and 6)
9. During the 1991-92 school year, the average instructional faculty salary costs per FTE student for the State-related university group were: undergraduate level, \$1,617, and master's level, \$3,602. For the State-owned group the FTE salary costs for the same levels were \$2,210 and \$3,279, respectively. (Table 7) First professional FTE salary costs averaged \$1,860 at Pittsburgh and \$4,031 at Temple; doctoral FTE salary costs averaged \$10,984 at Penn State, \$10,845 at Pittsburgh and \$5,845 at Temple. Statistical analysis has shown that FTE salary cost varies directly with FTE instructional faculty salaries, and inversely with class (section) average sizes and the number of classes (sections) offered per course. Since 1986-87, undergraduate FTE salary costs have increased by 25 percent for the State-related group, and by 33 percent for the State-owned group. FTE salary cost also varies considerably by program area. (Table 8A through 8E)

10. Regression analysis applied to the 1991-92 FTE salary cost, class size and instructional faculty salary data for the public universities indicates that the total cost savings to be expected from decreasing FTE instructional faculty average salaries by \$1,000 at these institutions would be almost \$12 million, and from increasing average class (section) sizes by one student over \$15 million.<sup>11</sup>
  
11. The average undergraduate class (section) size is 20 at Lincoln, 30 at Penn State and Pittsburgh, 26 at Temple, and 23 at the State-owned universities. Since 1986-87, average undergraduate class sizes have had a small increase. (Table 9)
  
12. During the 1991-92 school year, the tuition and required fees for full-time in-State undergraduate students averaged \$4,134 at the State-related universities, and \$3,028 at the State-owned universities. These tuition and fees had one-year increases of 9 percent for the State-related group and 18 percent for the State-owned group. At Lincoln, tuition and fees for nonresident full-time undergraduates exceeded those for residents by about 49 percent, and for full-time graduate students by about 43 percent. At Penn State and Pittsburgh, tuition and fees for nonresident full-time undergraduates and graduate students were approximately double those for residents. At Temple, the out-of-state premium was about 83 percent for full-time undergraduates and 25 percent for full-time graduate students. For the State-owned group, nonresident undergraduates paid about 76 percent more, but nonresident graduate students only 25 percent more, than Pennsylvania residents. (Table 10)
  
13. For fiscal year 1991-92, the public universities collected almost \$981 million in tuition and fee revenues. These revenues per FTE student averaged \$3,510 at Lincoln, \$5,370 at Penn State, \$6,190 at

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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.

Pittsburgh, \$5,770 at Temple, and \$3,220 at the State-owned universities. Since 1986-87, per student revenues have grown by about 52 percent at the public universities. (Table 11)

14. For fiscal year 1991-92, the Commonwealth's General Fund educational and general (instructional) appropriations to the public universities for instruction totaled \$813 million: \$446 million (55 percent) to the State-related universities and \$367 million (45 percent) to the State-owned universities.<sup>12, 13</sup> These appropriations represent 86 percent of the total appropriations made specifically for instruction to the public universities and community colleges, and almost 71 percent of the total appropriations made for all purposes to all public and private colleges and universities in the Commonwealth. Total instructional appropriations increased by 4 percent at the State-related universities and by 8 percent at the State-owned universities over the previous year. The average appropriation per FTE student was \$3,690 for the State-related group (a one-year increase of 3 percent) and \$3,950 for the State-owned group (a one-year increase of 7 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 \$70 million went to students at the public universities through various PHEAA grant and matching-fund programs.<sup>14</sup>

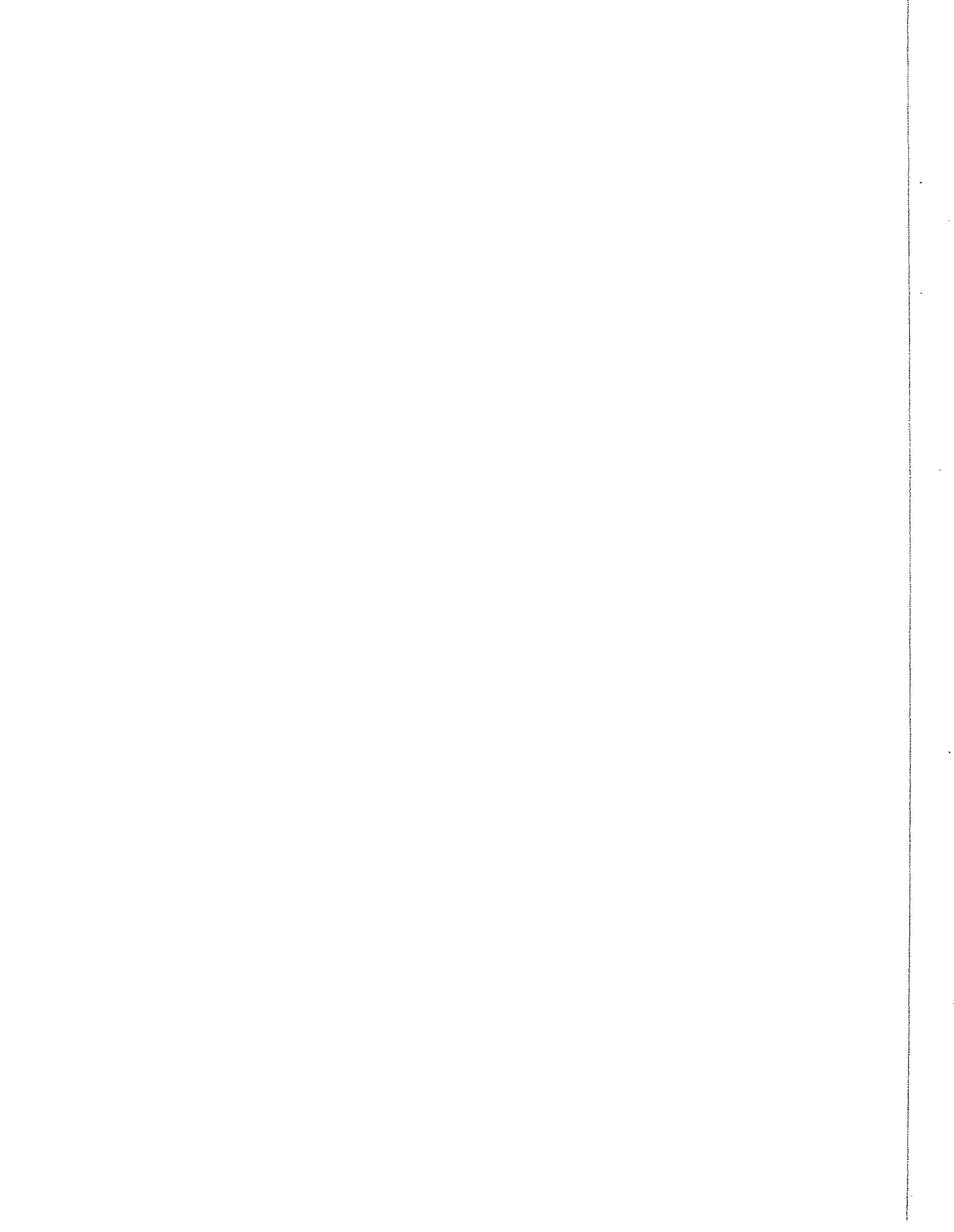
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<sup>12</sup>The Commonwealth appropriation to the State System of Higher Education given here does not include amounts appropriated for either the Board of Governors/Chancellor's Office or the System Reserve.

<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. During the 1991–92 school year, on an FTE student basis, the ratio of Commonwealth instructional appropriations to institutional tuition and fee revenues plus Commonwealth instructional appropriations averaged 40 percent for the State–related university group, and 55 percent for the State–owned university group. (Table 13) Since 1986–87, on an FTE student basis, average direct Commonwealth instructional appropriations to the public universities have increased at 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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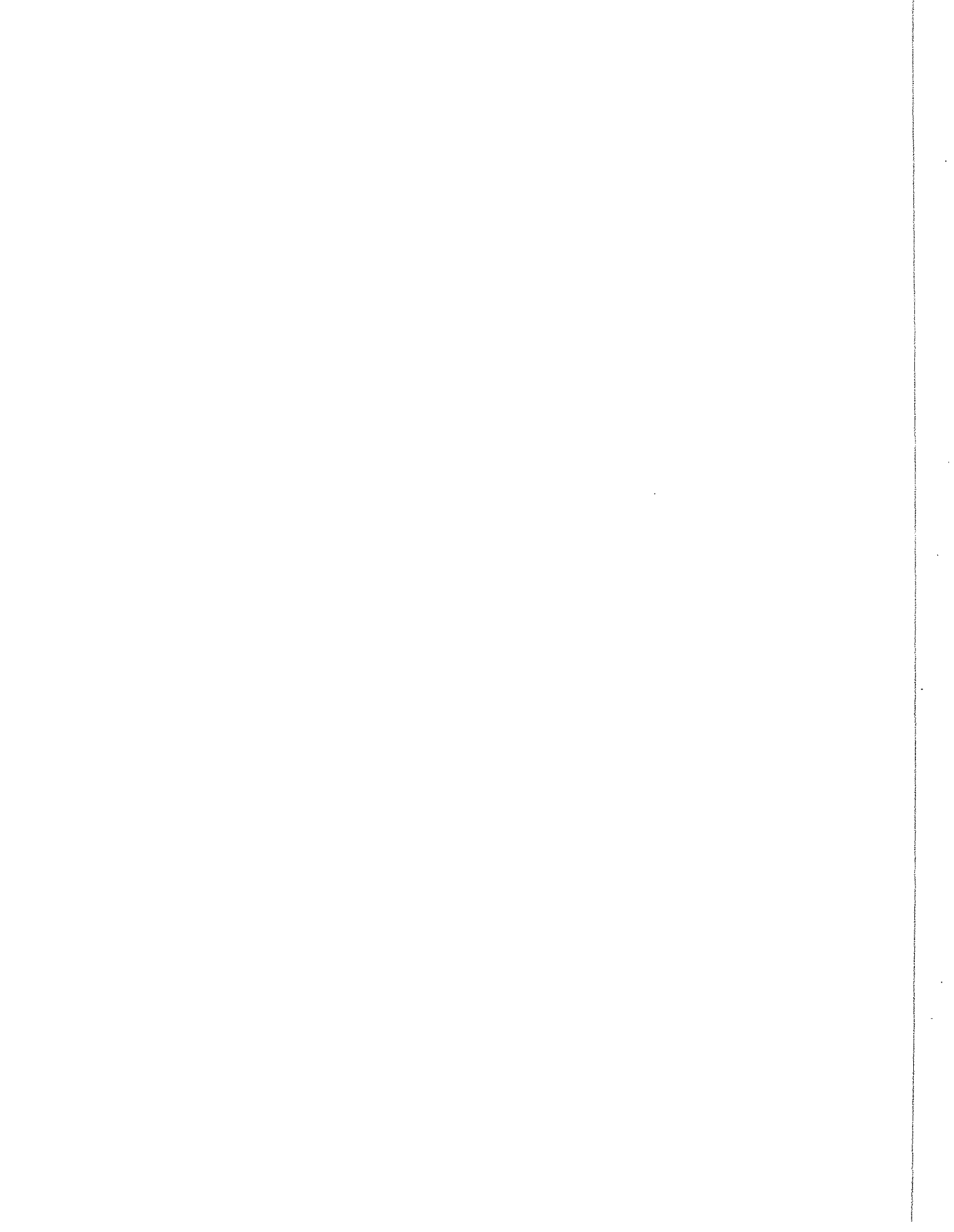


Table 1

FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC LEVEL<sup>1</sup>  
 1991-92, CHANGE FROM 1990-91 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1986-87 to 1991-92)

University	Total				Undergraduate				Graduate <sup>2</sup>			
	FTE students	One-year change	Percentage change One- Five-year year average		FTE students	One-year change	Percentage change One- Five-year year average		FTE students	One-year change	Percentage change One- Five-year year average	
<b>State-related</b>												
Lincoln	1,540	71	5%	3%	1,337	92	7%	4%	203	-21	-9%	a
Penn State	63,537	-96	a	2	57,224	1	a	1	6,313	-97	-2	4%
Pittsburgh	29,492	144	a	1	22,097	224	1	1	7,395	-80	-1	a
Temple	26,321	1,025	4	1	19,617	474	2	a	6,704	551	9	4
Total	120,890	1,144	1	1	100,275	791	1	1	20,615	353	2	2
<b>State-owned</b>												
Bloomsburg	7,415	134	2	2	6,966	127	2	2	449	7	2	3
California	6,242	33	1	4	5,581	-49	-1	4	661	82	14	14
Cheyney	1,389	-97	-7	a	1,174	-66	-5	-2	215	-31	-13	28
Clarion	6,028	-232	-4	1	5,659	-161	-3	1	369	-71	-16	a
East Stroudsburg	5,309	-75	-1	4	4,645	-115	-2	4	664	40	6	6
Edinboro	7,651	103	1	7	7,233	115	2	7	418	-12	-3	7
Indiana	14,255	279	2	2	13,116	155	1	2	1,139	124	12	6
Kutztown	7,126	3	a	3	6,724	11	a	3	402	-8	-2	8
Lock Haven	3,599	94	3	7	3,599	94	3	7	b	b	b	b
Mansfield	3,149	79	3	4	2,960	73	3	4	189	6	3	8
Millersville	6,959	-113	-2	2	6,168	-48	-1	1	791	-65	-8	7
Shippensburg	6,197	182	3	1	5,695	152	3	1	502	30	6	1
Slippery Rock	7,496	60	1	4	6,866	35	1	3	630	25	4	24
West Chester	10,219	-18	a	3	9,135	14	a	2	1,084	-32	-3	7
Total	93,034	432	a	3	85,521	337	a	3	7,513	95	1	7
All universities	213,924	1,576	1	2	185,796	1,128	1	2	28,128	448	2	3

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 the 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 is not included because of its very small size.

SOURCE: Reports provided by the individual universities, 1987 to 1992.

Table 2

FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>  
1991-92, CHANGE FROM 1990-91 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1986-87 to 1991-92)

University	Lower division			Upper division			Master's			First professional <sup>2</sup> and doctor's		
	FTE students	Percentage change One- year    Five-year average		FTE students	Percentage change One- year    Five-year average		FTE students	Percentage change One- year    Five-year average		FTE students	Percentage change One- year    Five-year average	
State-related												
Lincoln	1,030	8%	3%	307	6%	7%	203	-9%	a	na	na	na
Penn State	36,098	-1	a	21,126	1	6	3,396	a	5%	2,917	-3%	2%
Pittsburgh	14,676	a	1	7,421	4	1	5,061	3	2	2,334	-9	-4
Temple	9,355	-1	-2	10,262	6	3	3,491	10	5	3,213	0	2
Total	61,159	-1	a	39,116	3	4	12,151	4	4	8,464	-1	a
State-owned												
Bloomsburg	4,850	a	2	2,116	6	3	449	2	3	na	na	na
California	3,856	3	4	1,725	-9	2	661	14	14	na	na	na
Cheyney	843	-6	-3	331	-4	a	215	-13	28	na	na	na
Clarion	3,958	-4	a	1,701	a	3	369	-16	a	na	na	na
East Stroudsburg	3,391	-3	3	1,254	a	7	664	6	6	na	na	na
Edinboro	5,097	-1	7	2,136	8	7	418	-3	7	na	na	na
Indiana	8,844	-2	2	4,272	7	1	1,139	12	6	b	b	b
Kutztown	4,398	-2	2	2,326	4	6	402	-2	8	na	na	na
Lock Haven	2,610	3	7	989	1	5	c	c	c	na	na	na
Mansfield	2,064	-1	3	896	10	6	189	3	8	na	na	na
Millersville	4,240	-4	-1	1,928	7	6	791	-8	7	na	na	na
Shippensburg	4,088	2	1	1,607	5	2	502	6	1	na	na	na
Slippery Rock	4,869	-3	2	1,997	12	6	630	4	24	na	na	na
West Chester	5,996	-2	1	3,139	4	6	1,084	-3	7	na	na	na
Total	59,104	-1	2	26,417	4	4	7,513	1	7	na	na	na
All universities	120,263	-1	1	65,533	3	4	19,664	3	5	8,464	-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 is not included because of its very small size.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1987 to 1992.

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>  
 1991-92

CIP Classification	Total	Percent- age of total	Undergraduate			Percent- age of total	Graduate <sup>3</sup>	Percent- age of total
			Lower division	Percent- age of total	Upper division			
Agriculture	--	--	--	--	--	--	--	--
Architecture and environmental design	--	--	--	--	--	--	--	--
Area and ethnic studies	--	--	--	--	--	--	--	--
Business	121	8%	39	4%	82	27%	--	--
Communications	--	--	--	--	--	--	--	--
Computer and information sciences	--	--	--	--	--	--	--	--
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	252	16	205	20	47	15	--	--
Engineering	--	--	--	--	--	--	--	--
Foreign languages	73	5	63	6	10	3	--	--
Health	--	--	--	--	--	--	--	--
Home economics	--	--	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--	--	--
Law	--	--	--	--	--	--	--	--
Letters	205	13	170	17	35	11	--	--
Liberal/general studies	--	--	--	--	--	--	--	--
Library and archival sciences	--	--	--	--	--	--	--	--
Life sciences	103	7	92	9	11	4	--	--
Mathematics	168	11	160	16	8	3	--	--
Military sciences	--	--	--	--	--	--	--	--
Multi/interdisciplinary studies	6	a	2	a	4	1	--	--
Parks and recreation	--	--	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--	--	--
Philosophy, religion and theology	57	4	49	5	8	3	--	--
Physical sciences	88	6	77	7	11	4	--	--
Psychology	57	4	35	3	22	7	--	--
Public affairs and protective services	203	13	--	--	--	--	203	100%
Social sciences	208	14	139	13	69	22	--	--
Trade and industrial	--	--	--	--	--	--	--	--
Visual and performing arts	--	--	--	--	--	--	--	--
Other	--	--	--	--	--	--	--	--
<b>Total<sup>4</sup></b>	<b>1,540</b>	<b>100</b>	<b>1,030</b>	<b>100</b>	<b>307</b>	<b>100</b>	<b>203</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 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, 1992.

Table 3B

THE 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>  
1991-92

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	917	1%	186	1%	590	3%	141	2%
Architecture and environmental design	416	1	196	1	212	1	8	a
Area and ethnic studies	315	a	176	a	123	1	16	a
Business	7,234	11	2,327	6	4,106	19	801	13
Communications	758	1	274	1	457	2	27	a
Computer and information sciences	1,319	2	1,003	3	227	1	89	1
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	5,570	9	1,749	5	2,129	10	1,692	27
Engineering	5,756	9	1,501	4	3,029	14	1,226	19
Foreign languages	2,138	3	1,671	5	376	2	91	1
Health	901	1	186	1	625	3	89	1
Home economics	1,371	2	862	2	382	2	127	2
Industrial arts	--	--	--	--	--	--	--	--
Law	--	--	--	--	--	--	--	--
Letters	6,268	10	4,106	11	1,898	9	264	4
Liberal/general studies	65	a	32	a	33	a	--	--
Library and archival sciences	7	a	2	a	5	a	--	--
Life sciences	3,338	5	2,484	7	653	3	191	3
Mathematics	5,908	9	5,092	14	646	3	170	3
Military sciences	104	a	61	a	43	a	--	--
Multi/interdisciplinary studies	1,808	3	994	3	651	3	163	3
Parks and recreation	22	a	--	--	17	a	5	a
Personal and social development	170	a	48	a	102	a	20	a
Philosophy, religion and theology	939	1	598	2	303	1	38	1
Physical sciences	4,946	8	3,702	10	789	4	455	7
Psychology	1,965	3	1,301	4	529	3	135	2
Public affairs and protective services	834	1	167	a	486	2	181	3
Social sciences	6,817	11	4,620	13	1,906	9	291	5
Trade and industrial	313	a	313	1	--	--	--	--
Visual and performing arts	3,339	5	2,446	7	799	4	94	1
Other	--	--	--	--	--	--	--	--
<b>Total<sup>4</sup></b>	<b>63,537</b>	<b>100</b>	<b>36,098</b>	<b>100</b>	<b>21,126</b>	<b>100</b>	<b>6,313</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.

SOURCE: Reports provided by The Pennsylvania State University, 1992.

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>  
1991-92

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	203	1%	150	1%	48	1%	5	a
Business	2,409	8	247	2	857	12	1,305	18%
Communications	102	a	37	a	34	a	31	a
Computer and information sciences	996	3	638	4	166	2	192	3
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	1,931	7	291	2	421	6	1,219	16
Engineering	1,660	6	496	3	695	9	469	6
Foreign languages	1,081	4	760	5	255	3	66	1
Health	2,682	9	334	2	1,043	14	1,305	18
Home economics	40	a	1	a	37	a	2	a
Industrial arts	--	--	--	--	--	--	--	--
Law	874	3	--	--	--	--	874	12
Letters	3,617	12	2,367	16	1,040	14	210	3
Liberal/general studies	--	--	--	--	--	--	--	--
Library and archival sciences	231	1	--	--	--	--	231	3
Life sciences	988	3	676	5	245	3	67	1
Mathematics	1,821	6	1,528	10	222	3	71	1
Military sciences	11	a	5	a	6	a	--	--
Multi/interdisciplinary studies	319	1	224	2	72	1	23	a
Parks and recreation	--	--	--	--	--	--	--	--
Personal and social development	3	a	3	a	--	--	--	--
Philosophy, religion and theology	681	2	528	4	106	1	47	1
Physical sciences	2,189	7	1,835	13	143	2	211	3
Psychology	1,458	5	1,076	7	285	4	97	1
Public affairs and protective services	1,247	4	133	1	433	6	681	9
Social sciences	3,774	13	2,441	17	1,115	15	218	3
Trade and industrial	--	--	--	--	--	--	--	--
Visual and performing arts	1,177	4	907	6	197	3	73	1
Other	--	--	--	--	--	--	--	--
<b>Total<sup>4</sup></b>	<b>29,492</b>	<b>100</b>	<b>14,676</b>	<b>100</b>	<b>7,421</b>	<b>100</b>	<b>7,395</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, 1992.

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>  
 1991-92

CIP Classification	Total	Percent- age of total	Undergraduate			Percent- age of total	Graduate <sup>3</sup>	Percent- age of total
			Lower division	Percent- age of total	Upper division			
Agriculture	154	1%	70	1%	83	1%	1	a
Architecture and environmental design	--	--	--	--	--	--	--	--
Area and ethnic studies	297	1	146	2	91	1	60	1%
Business	3,502	13	819	9	1,966	19	717	11
Communications	943	4	298	3	512	5	133	2
Computer and information sciences	417	2	106	1	183	2	128	2
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	3,092	12	742	8	1,027	10	1,323	20
Engineering	812	3	222	2	527	5	63	1
Foreign languages	775	3	425	5	299	3	51	1
Health	2,181	8	76	1	902	9	1,203	18
Home economics	--	--	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--	--	--
Law	1,426	5	7	a	5	a	1,414	21
Letters	1,960	7	1,148	12	697	7	115	2
Liberal/general studies	378	1	289	3	86	1	3	a
Library and archival sciences	--	--	--	--	--	--	--	--
Life sciences	635	2	313	3	229	2	93	1
Mathematics	1,626	6	1,047	11	457	4	122	2
Military sciences	4	a	2	a	2	a	--	--
Multi/interdisciplinary studies	9	a	9	a	--	--	--	--
Parks and recreation	148	1	41	a	75	1	32	a
Personal and social development	--	--	--	--	--	--	--	--
Philosophy, religion and theology	608	2	332	4	202	2	74	1
Physical sciences	1,111	4	634	7	374	4	103	2
Psychology	825	3	364	4	364	4	97	1
Public affairs and protective services	786	3	168	2	291	3	327	5
Social sciences	3,017	11	1,423	15	1,231	12	363	5
Trade and industrial	--	--	--	--	--	--	--	--
Visual and performing arts	1,613	6	675	7	659	6	279	4
Other	--	--	--	--	--	--	--	--
<b>Total<sup>4</sup></b>	<b>26,321</b>	<b>100</b>	<b>9,355</b>	<b>100</b>	<b>10,262</b>	<b>100</b>	<b>6,704</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 Temple University, 1992.



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>  
1991-92

CIP Classification	Total	Percent- age of total	Undergraduate			Graduate <sup>3</sup>	Percent- age of total
			Lower division	Percent- age of total	Upper division		
Agriculture	24	a	24	a	--	--	--
Architecture and environmental design	8	a	--	--	6	2	a
Area and ethnic studies	309	a	147	a	146	16	a
Business	8,912	10%	3,347	6%	5,026	539	7%
Communications	2,385	3	1,289	2	1,002	94	1
Computer and information sciences	2,008	2	1,577	3	318	113	2
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--
Education	17,969	19	6,098	10	7,897	3,974	53
Engineering	323	a	115	a	173	35	a
Foreign languages	2,347	3	1,987	3	330	30	a
Health	2,658	3	875	1	1,328	455	6
Home economics	463	a	241	a	198	24	a
Industrial arts	285	a	120	a	139	26	a
Law	144	a	72	a	63	9	a
Letters	9,683	10	7,749	13	1,587	347	5
Liberal/general studies	203	a	182	a	15	6	a
Library and archival sciences	217	a	29	a	29	159	2
Life sciences	4,457	5	3,607	6	724	126	2
Mathematics	6,016	6	5,199	9	665	152	2
Military sciences	135	a	101	a	34	--	--
Multi/interdisciplinary studies	283	a	141	a	68	74	1
Parks and recreation	425	a	211	a	186	28	a
Personal and social development	511	1	376	1	101	34	a
Philosophy, religion and theology	1,787	2	1,556	3	211	20	a
Physical sciences	5,166	6	4,534	8	521	111	1
Psychology	5,049	5	3,318	6	1,189	542	7
Public affairs and protective services	1,326	1	591	1	646	89	1
Social sciences	13,911	15	10,771	18	2,768	372	5
Trade and industrial	25	a	7	a	18	--	--
Visual and performing arts	5,883	6	4,725	8	1,033	125	2
Other	133	a	117	a	--	16	a
Total <sup>4</sup>	93,034	100	59,104	100	26,417	7,513	100

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 at all universities except Lock Haven (which is not included because of its very small size) and doctor's level at 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, 1992.

Table 4

DEGREES CONFERRED<sup>1</sup>  
 1991-92, CHANGE FROM 1990-91 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1986-87 to 1991-92)

University	Total				Bachelor's				Graduate <sup>2</sup>			
	Degrees	One-year change	Percentage change One- Five-year year average		Degrees	One-year change	Percentage change One- Five-year year average		Degrees	One-year change	Percentage change One- Five-year year average	
State-related												
Lincoln	292	-8	-3%	9%	207	-1	a	10%	85	-7	-8%	5%
Penn State	11,440	235	2	4	9,395	117	1%	3	2,045	118	6	6
Pittsburgh	6,531	401	7	1	3,975	285	8	1	2,556	116	5	a
Temple	5,815	413	8	4	3,672	109	3	4	2,143	304	17	4
Total	24,078	1,041	5	3	17,249	510	3	3	6,829	531	8	3
State-owned												
Bloomsburg	1,517	85	6	4	1,256	16	1	4	261	69	36	9
California	1,213	81	7	8	968	40	4	6	245	41	20	19
Cheyney	246	35	17	4	148	11	8	-3	98	24	32	48
Clarion	1,212	78	7	3	1,030	78	8	3	182	0	0	7
East Stroudsburg	987	13	1	5	798	-10	-1	4	189	23	14	12
Edinboro	1,239	121	11	7	1,074	105	11	7	165	16	11	5
Indiana	2,648	-49	-2	a	2,241	-44	-2	a	407	-5	-1	2
Kutztown	1,369	116	9	5	1,162	91	8	4	207	25	14	17
Lock Haven	603	70	13	7	603	70	13	7	b	b	b	b
Mansfield	610	117	24	6	551	121	28	7	59	-4	-6	1
Millersville	1,349	12	1	3	1,162	-5	a	3	187	17	10	10
Shippensburg	1,491	83	6	2	1,158	53	5	2	333	30	10	2
Slippery Rock	1,375	141	11	3	1,172	20	2	2	203	121	148	14
West Chester	1,945	61	3	7	1,598	72	5	6	347	-11	-3	11
Total	17,804	964	6	4	14,921	618	4	3	2,883	346	14	8
All universities	41,882	2,005	5	3	32,170	1,128	4	3	9,712	877	10	4

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 except Lock Haven, 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 is not included because of its very small size.

SOURCE: Reports provided by the individual universities, 1987 to 1992.

Table 5

WORKWEEKS OF FULL-TIME EMPLOYED FACULTY BY TYPE OF ACTIVITY  
FALL 1991, AND PERCENTAGE CHANGE FROM FALL 1990

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 <sup>4</sup>	Percent- age change	Total work- week	Percent- age change
		Under- graduate	Percent- age change	Graduate	Percent- age change								
State-related													
Lincoln	81	10.4	6%	.5	-17%	17.7	-4%	9.9	-8%	9.8	2%	48.3	-2%
Penn State	3,020	6.7	-1	1.8	6	19.5	0	17.0	0	7.2	4	52.2	1
Pittsburgh	1,760	4.4	-2	3.4	-6	15.1	-2	17.7	2	11.3	4	51.9	a
Temple	1,137	4.9	2	3.1	0	18.0	2	15.6	3	11.5	3	53.1	2
Total	5,998	5.7	-2	2.5	0	18.0	0	16.8	1	9.2	3	52.2	1
State-owned													
Bloomsburg	353	10.6	0	.8	-11	16.9	2	9.3	1	17.7	-3	55.3	a
California	263	10.2	0	1.1	-15	17.5	8	7.2	1	19.8	8	55.8	5
Cheyney	91	10.8	-1	.8	-20	15.9	-2	6.4	-17	17.8	24	51.7	3
Clarion	345	10.0	-2	.7	0	16.8	0	8.3	-2	15.2	3	51.0	0
East Stroudsburg	254	10.7	3	.9	-10	17.0	0	9.0	-10	16.3	1	53.9	-1
Edinboro	401	12.8	2	.6	-14	18.6	-3	7.7	-6	15.0	3	54.7	-1
Indiana	697	10.0	-5	1.2	-8	16.9	1	10.0	-7	18.8	0	56.9	-2
Kutztown	345	11.4	2	.6	-14	17.5	9	7.8	-6	16.2	-1	53.5	2
Lock Haven	203	12.0	-2	b	b	17.4	2	6.9	-5	16.6	-7	52.9	-3
Mansfield	171	10.9	-8	.5	0	21.0	-3	10.3	5	18.9	-4	61.6	-3
Millersville	330	11.4	3	.6	0	16.3	1	7.7	-4	17.0	1	53.0	1
Shippensburg	312	9.7	1	.9	0	16.9	1	8.0	7	16.5	1	52.0	2
Slippery Rock	373	10.8	-1	.8	14	18.4	-1	9.9	3	17.2	1	57.1	a
West Chester	543	10.4	2	1.6	0	18.2	-1	10.1	4	19.7	3	60.0	2
Total	4,681	10.8	0	.9	0	17.5	1	8.7	-2	17.4	1	55.3	a
All universities	10,679	7.9	0	1.8	0	17.8	1	13.4	1	12.7	2	53.6	1

1. The number of full-time employed faculty represents those reported by each university for the fall term.
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 is not included because of its very small size.

SOURCE: Reports provided by the individual universities, 1991 and 1992.

Table 6

AVERAGE INSTRUCTIONAL SALARIES OF FULL-TIME EQUIVALENT INSTRUCTIONAL FACULTY AND PERCENTAGE DISTRIBUTION BY RANK<sup>1</sup>  
1991-92  
(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	Percentage of faculty	Average instructional salary	Percentage of faculty	Average instructional salary	Percentage of faculty	Average instructional salary	Percentage of faculty	Average instructional salary	Percentage of faculty
		1990-91 to 1991-92		1990-91 to 1991-92										
<b>State-related</b>														
Lincoln	110	1%	\$25.7	9%	\$36.0	18%	\$31.2	14%	\$24.7	32%	\$19.3	15%	\$18.7	21%
Penn State	3,471	1	38.8	3	63.6	16	47.0	17	38.0	25	27.2	15	25.9	27
Pittsburgh	1,767	2	40.3	7	62.9	19	44.4	24	35.3	22	23.2	12	30.6	23
Temple	1,545	2	36.1	10	55.1	26	42.6	20	34.7	15	19.2	12	21.5	27
Total	6,893	2	38.4	5	60.5	19	45.0	20	36.5	22	24.5	13	25.8	26
<b>State-owned</b>														
Bloomsburg	385	3	42.0	a	53.8	26	43.2	31	34.9	37	27.9	6	na	0
California	306	-4	44.6	14	56.7	33	46.8	29	36.5	20	27.8	18	77.9	a
Cheyney	85	-7	47.5	3	56.8	31	46.2	47	39.9	15	30.9	7	na	0
Clarion	348	-2	43.3	7	54.4	32	44.2	29	35.9	28	28.0	11	34.2	a
East Stroudsburg	284	a	41.0	5	50.4	38	40.2	29	32.0	28	25.7	5	na	0
Edinboro	437	3	40.3	5	51.7	33	42.2	19	33.3	37	26.7	11	na	0
Indiana	704	1	44.2	8	54.5	35	44.7	30	36.2	26	25.8	8	28.7	1
Rutztown	378	3	43.4	4	55.5	28	44.9	29	36.9	33	27.7	10	73.2	a
Lock Haven	199	6	43.2	7	58.7	23	47.3	32	35.2	29	27.9	15	14.4	1
Mansfield	176	4	42.5	5	55.0	28	44.6	28	36.6	30	26.6	14	na	0
Millersville	366	-2	43.0	7	55.1	30	45.3	28	36.9	28	24.9	14	na	0
Shippensburg	315	1	46.5	5	54.2	50	43.9	26	35.6	18	27.1	6	na	0
Slippery Rock	389	-2	42.1	6	52.1	33	42.4	27	34.5	34	28.6	6	48.1	a
West Chester	576	1	43.5	8	58.7	24	47.9	27	36.6	33	26.6	15	27.7	1
Total	4,948	a	43.2	6	54.5	32	44.6	28	35.5	29	26.9	11	28.7	a
All universities	11,841	1	40.4	6	57.2	25	44.8	23	36.0	25	25.4	12	25.9	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, 1991 and 1992.

Table 7

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>  
1991-92, CHANGE FROM 1990-91 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1986-87 to 1991-92)

University	Undergraduate						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	\$1,487	-1%	-1%	\$3,013	a	1%	\$1,838	-1%	a	\$1,788	54%	a
Penn State	1,286	8	5	2,131	2%	5	1,598	5	6%	3,299	5	6%
Pittsburgh	1,356	12	7	2,230	4	2	1,650	9	4	4,539	9	8
Temple	1,312	2	3	1,902	7	4	1,621	5	4	2,642	4	3
Total	1,310	8	5	2,097	3	4	1,617	6	5	3,602	7	6
<b>State-owned</b>												
Bloomsburg	1,745	-1	6	3,029	1	6	2,135	7	7	2,891	10	9
California	1,702	7	6	2,768	12	7	2,032	8	6	3,535	6	4
Cheyney	2,680	3	1	3,891	1	-2	3,021	2	1	2,389	8	-10
Clarion	1,906	9	8	3,659	5	11	2,433	9	10	3,467	11	16
East Stroudsburg	1,792	6	5	3,394	6	4	2,224	6	5	2,003	6	6
Edinboro	1,800	3	3	3,230	10	8	2,222	5	5	3,713	-2	4
Indiana	1,482	2	6	3,043	7	8	1,991	6	7	4,385	6	3
Kutztown	1,687	10	7	3,250	1	3	2,227	6	5	3,510	20	11
Lock Haven	1,906	12	4	3,675	11	4	2,392	11	4	b	b	b
Mansfield	1,683	6	7	3,816	3	2	2,329	7	5	3,039	-4	1
Millersville	1,934	12	10	2,901	-1	2	2,236	8	8	2,481	4	4
Shippensburg	1,940	3	7	3,048	3	8	2,252	3	8	3,620	-4	8
Slippery Rock	1,782	3	6	3,101	-4	4	2,166	2	6	2,369	5	-3
West Chester	1,953	7	10	2,951	9	8	2,296	8	10	3,761	15	10
Total	1,786	6	6	3,157	5	6	2,210	6	7	3,279	7	5
All universities	1,544	6	6	2,524	4	5	1,890	6	6	3,478	7	5

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 is not included because of its very small size.

SOURCE: Reports provided by the individual universities, 1987 to 1992.

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>  
 1991-92

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	\$1,618	\$1,725	\$1,691	--	--	--
Communications	--	--	--	--	--	--
Computer and information sciences	--	--	--	--	--	--
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,493	2,829	1,742	--	--	--
Engineering	--	--	--	--	--	--
Foreign languages	2,091	4,439	2,413	--	--	--
Health	--	--	--	--	--	--
Home economics	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--
Law	--	--	--	--	--	--
Letters	1,349	3,379	1,695	--	--	--
Liberal/general studies	--	--	--	--	--	--
Library and archival sciences	--	--	--	--	--	--
Life sciences	994	6,160	1,546	--	--	--
Mathematics	1,423	5,784	1,631	--	--	--
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	2,270	2,348	2,322	--	--	--
Parks and recreation	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	1,210	1,536	1,256	--	--	--
Physical sciences	2,332	8,469	3,099	--	--	--
Psychology	1,220	3,102	1,946	--	--	--
Public affairs and protective services	--	--	--	\$1,788	--	--
Social sciences	1,413	2,764	1,862	--	--	--
Trade and industrial	--	--	--	--	--	--
Visual and performing arts	--	--	--	--	--	--
Other	--	--	--	--	--	--
Total	1,487	3,013	1,838	1,788	--	--

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, 1992.

Table 8B

THE 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>  
 1991-92

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total under-graduate	Master's	First professional <sup>3</sup>	Doctor's
Agriculture	\$1,687	\$2,015	\$1,936	\$5,226	--	\$11,060
Architecture and environmental design	2,260	3,744	3,031	33,739	--	17,085
Area and ethnic studies	1,035	2,561	1,664	6,025	--	23,485
Business	1,343	1,679	1,558	3,328	--	7,722
Communications	1,177	3,264	2,482	5,311	--	16,755
Computer and information sciences	1,812	2,520	1,943	2,688	--	9,757
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	850	1,959	1,459	1,450	--	6,821
Engineering	2,744	2,583	2,637	4,242	--	12,325
Foreign languages	1,432	2,216	1,576	5,956	--	8,676
Health	1,392	2,079	1,922	5,774	--	10,881
Home economics	488	1,781	884	1,947	--	10,263
Industrial arts	--	--	--	--	--	--
Law	--	--	--	--	--	--
Letters	1,493	1,853	1,607	3,106	--	11,259
Liberal/general studies	955	1,093	1,025	--	--	--
Library and archival sciences	12,882	1,775	5,529	--	--	--
Life sciences	863	1,893	1,080	9,404	--	12,524
Mathematics	1,297	2,194	1,398	3,762	--	17,800
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	1,452	2,893	2,022	3,185	--	11,747
Parks and recreation	--	913	913	9,362	--	7,699
Personal and social development	373	2,508	1,822	5,509	--	20,376
Philosophy, religion and theology	1,509	1,430	1,482	7,746	--	15,169
Physical sciences	1,373	2,910	1,643	7,683	--	13,885
Psychology	628	2,093	1,051	4,627	--	8,394
Public affairs and protective services	1,205	2,225	1,964	2,954	--	13,818
Social sciences	962	1,915	1,240	4,628	--	12,798
Trade and industrial	2,882	--	2,882	--	--	--
Visual and performing arts	1,140	2,512	1,478	6,043	--	10,585
Other	--	--	--	--	--	--
<b>Total</b>	<b>1,286</b>	<b>2,131</b>	<b>1,598</b>	<b>3,299</b>	<b>--</b>	<b>10,984</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 The Pennsylvania State University, 1992.

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>  
 1991-92

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional <sup>3</sup>	Doctor's
Agriculture	--	--	--	--	--	--
Architecture and environmental design	--	--	--	--	--	--
Area and ethnic studies	\$1,030	\$3,343	\$1,591	\$2,801	--	\$17,542
Business	1,998	1,697	1,765	1,585	--	18,011
Communications	1,812	2,899	2,333	2,283	--	--
Computer and information sciences	1,278	3,271	1,690	3,259	--	12,996
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,393	2,523	2,061	2,490	--	7,180
Engineering	2,218	2,514	2,390	6,038	--	11,206
Foreign languages	1,855	2,381	1,987	5,608	--	11,641
Health	2,053	2,332	2,264	9,941	\$1,532	21,702
Home economics	2,642	2,229	2,240	14,866	--	--
Industrial arts	--	--	--	--	--	--
Law	--	--	--	8,313	2,095	--
Letters	1,437	1,567	1,477	5,659	--	10,231
Liberal/general studies	--	--	--	--	--	--
Library and archival sciences	--	--	--	2,249	--	9,108
Life sciences	1,454	3,106	1,893	10,758	--	17,727
Mathematics	1,467	2,722	1,626	5,999	--	15,290
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	1,296	415	1,082	6,546	--	13,946
Parks and recreation	--	--	--	--	--	--
Personal and social development	933	--	933	--	--	--
Philosophy, religion and theology	1,334	3,002	1,612	11,038	--	14,528
Physical sciences	1,194	4,930	1,464	9,364	--	9,897
Psychology	738	2,007	1,004	8,136	--	8,486
Public affairs and protective services	1,092	1,898	1,708	4,121	--	7,328
Social sciences	1,207	2,115	1,491	7,519	--	15,822
Trade and industrial	--	--	--	--	--	--
Visual and performing arts	1,176	2,863	1,477	6,325	--	10,197
Other	--	--	--	--	--	--
Total	1,356	2,230	1,650	4,539	1,860	10,845

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, 1992.



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>  
 1991-92

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total under-graduate	Master's	First professional <sup>3</sup>	Doctor's
Agriculture	\$2,252	\$2,520	\$2,398	--	--	--
Architecture and environmental design	--	--	--	--	--	--
Area and ethnic studies	1,370	2,065	1,637	\$2,854	--	\$3,287
Business	1,191	1,487	1,400	1,998	--	8,432
Communications	1,043	1,987	1,639	3,588	--	8,496
Computer and information sciences	2,033	2,786	2,510	3,294	--	4,559
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,094	1,913	1,570	1,763	\$1,575	4,406
Engineering	1,768	2,722	2,439	2,718	--	6,311
Foreign languages	1,591	2,103	1,802	3,077	--	6,310
Health	2,413	1,544	1,611	2,620	7,007	7,656
Home economics	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--
Law	3,578	2,853	3,266	3,682	2,410	--
Letters	1,377	1,847	1,555	5,066	--	4,747
Liberal/general studies	1,060	1,021	1,051	2,098	--	2,962
Library and archival sciences	--	--	--	--	--	--
Life sciences	618	1,405	950	2,982	2,681	7,001
Mathematics	1,406	1,922	1,563	2,797	--	8,671
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	--	--	--	--	--	--
Parks and recreation	1,924	2,148	2,069	2,688	--	6,345
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	1,327	2,254	1,678	8,127	--	8,521
Physical sciences	928	1,563	1,163	3,316	--	9,208
Psychology	1,147	1,609	1,378	2,116	--	5,101
Public affairs and protective services	1,436	2,121	1,870	2,579	--	--
Social sciences	1,051	1,626	1,318	2,840	--	6,023
Trade and industrial	--	--	--	--	--	--
Visual and performing arts	2,247	3,430	2,831	5,125	--	8,948
Other	--	--	--	--	--	--
<b>Total</b>	<b>1,312</b>	<b>1,902</b>	<b>1,621</b>	<b>2,642</b>	<b>4,031</b>	<b>5,845</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, 1992.

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>  
 1991-92

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total under-graduate	Master's <sup>3</sup>	First professional	Doctor's <sup>4</sup>
Agriculture	\$1,584	--	\$1,584	--	--	--
Architecture and environmental design	--	\$2,114	2,114	\$2,761	--	--
Area and ethnic studies	1,871	2,482	2,176	4,878	--	--
Business	1,698	2,341	2,084	2,722	--	--
Communications	1,757	2,781	2,205	4,119	--	--
Computer and information sciences	1,911	4,123	2,282	3,778	--	--
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,683	2,982	2,416	2,495	--	--
Engineering	2,626	3,365	3,070	1,459	--	--
Foreign languages	2,311	4,872	2,676	3,383	--	--
Health	2,528	3,832	3,314	2,742	--	--
Home economics	1,491	2,871	2,114	9,176	--	--
Industrial arts	3,446	2,349	2,857	6,545	--	--
Law	2,314	1,450	1,911	2,019	--	--
Letters	1,889	3,091	2,093	4,181	--	--
Liberal/general studies	569	1,538	643	10,991	--	--
Library and archival sciences	2,632	5,190	3,911	2,270	--	--
Life sciences	1,803	4,771	2,299	8,561	--	--
Mathematics	1,869	3,214	2,021	5,182	--	--
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	1,684	3,546	2,290	2,275	--	--
Parks and recreation	1,576	2,817	2,157	4,809	--	--
Personal and social development	2,089	2,956	2,273	2,535	--	--
Philosophy, religion and theology	1,656	2,976	1,813	5,337	--	--
Physical sciences	2,356	7,669	2,904	8,545	--	--
Psychology	1,334	2,716	1,699	3,817	--	--
Public affairs and protective services	1,435	2,792	2,144	2,467	--	--
Social sciences	1,392	3,092	1,740	4,848	--	--
Trade and industrial	2,273	5,565	4,644	--	--	--
Visual and performing arts	2,070	5,138	2,620	9,904	--	--
Other	2,322	--	2,322	2,036	--	--
Total	1,786	3,157	2,210	3,279	--	--

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. The master's program at Lock Haven is not included because of its very small size.

4. Doctor's at Indiana included in master's.

SOURCE: Reports provided by the individual State-owned universities, 1992.

Table 9

AVERAGE CLASS SIZES IN CLASSROOM INSTRUCTION BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>  
1991-92, CHANGE FROM 1990-91 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1986-87 to 1991-92)

University	Undergraduate									Master's		
	Lower division			Upper division			Total undergraduate					
	Class size	One-year	Five-year average	Class size	One-year	Five-year average	Class size	One-year	Five-year average	Class size	One-year	Five-year average
State-related												
Lincoln	23	5%	4%	13	0%	4%	20	5%	5%	14	-12%	3%
Penn State	31	0	0	29	4	1	30	0	0	14	0	0
Pittsburgh	31	3	1	28	12	4	30	7	2	18	6	2
Temple	27	4	1	25	4	3	26	4	2	16	7	5
Total	30	0	1	27	4	2	29	4	1	16	7	1
State-owned												
Bloomsburg	25	-4	1	18	0	2	23	0	2	13	0	-1
California	29	4	-1	18	-5	0	25	4	0	11	0	2
Cheyney	22	5	6	15	0	13	20	5	9	18	-5	40
Clarion	33	-3	0	15	-6	-2	25	0	-1	12	-8	-5
East Stroudsburg	28	0	0	17	0	3	24	0	1	23	0	7
Edinboro	26	-4	1	17	6	0	23	0	1	10	11	2
Indiana	32	0	1	17	0	-1	25	0	0	10	11	9
Kutztown	28	-3	0	16	0	3	23	0	1	13	0	2
Lock Haven	27	-4	0	12	0	-5	20	0	-3	a	a	a
Mansfield	27	-4	1	9	-10	2	17	-6	1	9	0	6
Millersville	25	9	-1	17	21	6	22	16	1	14	8	5
Shippensburg	29	4	1	21	5	0	26	4	0	14	8	3
Slippery Rock	31	3	1	17	6	3	25	0	2	18	0	13
West Chester	24	0	-1	16	0	0	20	0	-2	11	-8	2
Total	28	0	1	16	0	0	23	0	0	13	8	4
All universities <sup>2</sup>	29	0	1	21	0	1	26	4	1	14	0	2

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 is not included because of its very small size.

SOURCE: Reports provided by the individual universities, 1987 to 1992.

Table 10

ACADEMIC YEAR TUITION AND REQUIRED FEES FOR FULL-TIME STUDENTS BY ACADEMIC LEVEL AND RESIDENCE  
1991-92, CHANGE FROM 1990-91 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1986-87 to 1991-92)

University	Undergraduate						Graduate <sup>1</sup>					
	In-State			Out-of-State			In-State			Out-of-State		
	Tuition and required fees	Percentage change		Tuition and required fees	Percentage change		Tuition and required fees	Percentage change		Tuition and required fees	Percentage change	
	One- year	Five-year average		One- year	Five-year average		One- year	Five-year average		One- year	Five-year average	
State-related												
Lincoln	\$2,710	8%	5%	\$4,030	8%	6%	\$4,175	19%	13%	\$5,975	15%	10%
Penn State <sup>2</sup>	4,402	9	9	9,188	9	11	4,916	9	11	9,762	9	11
Pittsburgh <sup>2</sup>	4,666	8	9	9,516	7	10	6,166	12	12	12,006	11	11
Temple	4,756	9	8	8,696	9	10	5,736	14	11	7,152	13	11
Average	4,134	9	8	7,858	8	9	5,248	13	12	8,724	11	11
State-owned												
Bloomsburg	2,968	18	13	5,232	15	12	2,858	19	13	3,584	19	17
California	3,128	18	12	5,392	15	12	2,900	10	9	3,626	11	14
Cheyney	2,838	14	10	5,102	13	11	2,733	15	9	3,459	16	14
Clarion	3,147	18	13	5,500	15	14	3,079	21	14	3,836	21	18
East Stroudsburg	3,088	17	13	5,352	14	13	2,934	17	12	3,660	18	17
Edinboro <sup>2</sup>	3,013	16	11	5,277	14	12	2,995	16	11	3,721	17	15
Indiana <sup>2</sup>	3,055	17	12	5,319	15	12	2,971	18	13	3,697	18	17
Kutztown	3,022	22	13	5,342	18	13	2,772	18	12	3,516	19	17
Lock Haven	3,020	22	13	5,397	20	13	a	a	a	a	a	a
Mansfield	2,947	14	11	5,211	13	12	2,812	15	12	3,538	16	16
Millersville	3,100	18	14	5,364	15	14	3,100	18	16	3,826	18	20
Shippensburg	3,108	15	12	5,372	14	12	2,978	15	13	3,704	16	17
Slippery Rock	3,045	19	12	5,423	18	13	3,045	19	12	3,808	21	17
West Chester	2,918	22	12	5,182	17	12	2,918	22	14	3,644	21	18
Average	3,028	18	12	5,319	15	12	2,937	17	12	3,672	18	17

1. Excludes first professional level.

2. Main campus data only.

a. The graduate program is not included because of its very small size.

SOURCE: Pennsylvania Department of Education, Basic Student Charges at Institutions of Higher Education, 1986-87 and 1987-88 and Colleges and Universities-Basic Student Charges, 1988-89 to 1991-92.

Table 11

TUITION AND FEE REVENUES RELATED TO FULL-TIME EQUIVALENT STUDENTS<sup>1</sup>  
 1991-92, CHANGE FROM 1990-91 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1986-87 to 1991-92)

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	\$5,406	12%	9%	\$3,510	\$230	7%	5%
Penn State	341,143	8	13	5,370	410	8	10
Pittsburgh	182,661	8	11	6,190	410	7	10
Temple	151,903	12	10	5,770	430	8	9
Total	681,113	9	12	5,630	410	8	10
<b>State-owned</b>							
Bloomsburg	22,313	19	16	3,010	430	17	12
California	17,705	16	20	2,840	380	15	12
Cheyney	4,939	3	11	3,560	350	11	12
Clarion	18,083	9	13	3,000	350	13	12
East Stroudsburg	19,018	15	20	3,580	520	17	13
Edinboro	24,173	16	25	3,160	390	14	13
Indiana	46,016	19	18	3,230	470	17	14
Kutztown	23,453	17	18	3,290	480	17	12
Lock Haven	11,719	22	24	3,260	520	19	13
Mansfield	10,708	18	20	3,400	450	15	13
Millersville	24,124	17	18	3,470	550	19	15
Shippensburg	19,310	17	14	3,120	380	14	12
Slippery Rock	23,411	14	19	3,120	370	13	13
West Chester	34,907	15	18	3,420	450	15	14
Total	299,879	16	18	3,220	430	15	13
All universities	980,992	11	13	4,590	430	10	10

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, 1987 to 1992; FTE students - reports provided by the individual universities, 1987 to 1992.

Table 12

COMMONWEALTH APPROPRIATIONS FOR INSTRUCTION RELATED TO FULL-TIME EQUIVALENT STUDENTS<sup>1</sup>  
1991-92, CHANGE FROM 1990-91 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1986-87 to 1991-92)

University	Educational and general appropriations (000s)	Percentage change		Total instructional appropriations per FTE student			
		One- year	Five-year average	Amount	Percentage change		
					One-year change	One- year	Five-year average
<b>State-related</b>							
Lincoln	\$9,305	3%	5%	\$6,040	\$-110	-2%	2%
Penn State <sup>2</sup>	189,318	5	8	2,980	130	5	6
Pittsburgh <sup>3</sup>	119,314	4	5	4,050	130	3	5
Temple	128,078	4	5	4,870	0	0	4
Total	446,015	4	6	3,690	110	3	5
<b>State-owned</b>							
Bloomsburg	28,297	8	7	3,820	210	6	4
California	24,292	8	8	3,890	260	7	3
Cheyney	12,762	2	1	9,190	770	9	2
Clarion	25,640	8	7	4,250	450	12	6
East Stroudsburg	20,641	8	6	3,890	340	10	2
Edinboro	26,307	8	6	3,440	200	6	-1
Indiana	51,034	8	6	3,580	190	6	3
Kutztown	27,055	8	8	3,800	280	8	4
Lock Haven	15,407	8	6	4,280	210	5	a
Mansfield	15,086	8	5	4,790	250	6	a
Millersville	28,596	8	7	4,110	360	10	5
Shippensburg	24,776	8	6	4,000	180	5	5
Slippery Rock	28,282	8	7	3,770	240	7	3
West Chester	39,307	8	8	3,850	290	8	4
Total <sup>4</sup>	367,482	8	6	3,950	260	7	3
All universities	813,497	6	6	3,800	170	5	4

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. Does not include the Pennsylvania College of Technology.

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.

a. Rounds to less than 1 percent.

SOURCE: Instructional appropriations - Governor's Executive Budget, 1988-89 to 1992-93; State System of Higher Education, Commonwealth of Pennsylvania, 1987 to 1992; and individual State-related universities, 1992. FTE students - reports provided by the individual universities, 1987 to 1992.

Table 13

TUITION AND FEE REVENUES,  
COMMONWEALTH APPROPRIATIONS FOR INSTRUCTION AND STUDENT AID PER FULL-TIME EQUIVALENT STUDENT<sup>1</sup>  
1991-92, CHANGE FROM 1990-91 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1986-87 to 1991-92)

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	\$3,510	\$6,040	\$9,550	63%	-3%	-1%	\$234
Penn State	5,370	2,980	8,350	36	0	-2	387
Pittsburgh	6,190	4,050	10,240	40	0	-2	350
Temple	5,770	4,870	10,640	46	-4	-2	290
<b>Total</b>	<b>5,630</b>	<b>3,690</b>	<b>9,320</b>	<b>40</b>	<b>-2</b>	<b>-2</b>	<b>354</b>
<b>State-owned</b>							
Bloomsburg	3,010	3,820	6,830	56	-3	-2	272
California	2,840	3,890	6,730	58	-3	-2	395
Cheyney	3,560	9,190	12,750	72	0	-2	485
Clarion	3,000	4,250	7,250	59	0	-2	364
East Stroudsburg	3,580	3,890	7,470	52	-4	-3	196
Edinboro	3,160	3,440	6,600	52	-4	-4	347
Indiana	3,230	3,580	6,810	53	-4	-3	376
Kutztown	3,290	3,800	7,090	54	-4	-2	179
Lock Haven	3,260	4,280	7,540	57	-5	-3	350
Mansfield	3,400	4,790	8,190	58	-5	-3	327
Millersville	3,470	4,110	7,580	54	-4	-3	203
Shippensburg	3,120	4,000	7,120	56	-3	-2	210
Slippery Rock	3,120	3,770	6,890	55	-2	-3	318
West Chester	3,420	3,850	7,270	53	-4	-3	182
<b>Total<sup>3</sup></b>	<b>3,220</b>	<b>3,950</b>	<b>7,170</b>	<b>55</b>	<b>-4</b>	<b>-3</b>	<b>289</b>
<b>All universities<sup>3</sup></b>	<b>4,590</b>	<b>3,800</b>	<b>8,390</b>	<b>45</b>	<b>-4</b>	<b>-2</b>	<b>326</b>

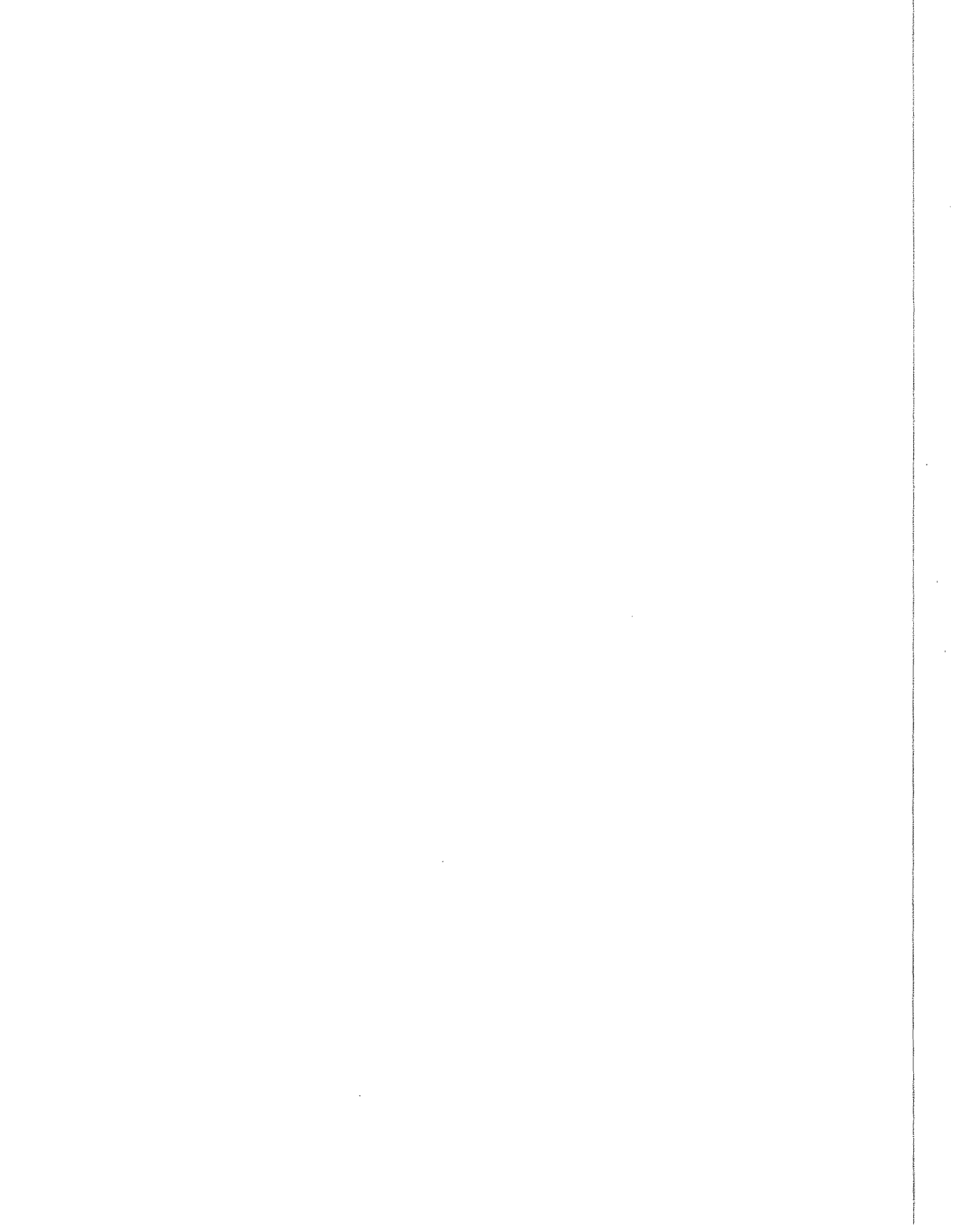
1. Tuition and fee revenues are based on collections by the individual universities. Instructional appropriations include educational and general appropriations (and Tuition Challenge Grants for 1989-90 and 1990-91 only). FTE students include in-State and out-of-State undergraduate and graduate students.

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, 1987 to 1992; instructional appropriations - Governor's Executive Budget, 1988-89 to 1992-93; State System of Higher Education, Commonwealth of Pennsylvania, 1987 to 1992; and individual State-related universities; FTE students - reports provided by the individual universities, 1987 to 1992; student aid - Pennsylvania Higher Education Assistance Agency, August 1992.





### **III. HISTORICAL DATA**

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Historical Table 1  
 FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC LEVEL<sup>1</sup>  
 1986-87 to 1991-92

University	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92
<b>State--related</b>						
<b>Lincoln</b>						
Total	1,321	1,303	1,317	1,394	1,469	1,540
Undergraduate	1,115	1,108	1,116	1,171	1,245	1,337
Graduate	206	195	201	223	224	203
<b>Penn State</b>						
Total	58,598	60,861	62,095	62,839	63,633	63,537
Undergraduate	53,266	55,177	56,271	56,641	57,223	57,224
Graduate	5,332	5,684	5,824	6,198	6,410	6,313
<b>Pittsburgh</b>						
Total	28,704	28,792	29,271	29,737	29,348	29,492
Undergraduate	21,189	21,302	21,814	22,107	21,873	22,097
Graduate	7,515	7,490	7,457	7,630	7,475	7,395
<b>Temple</b>						
Total	25,152	25,646	26,453	27,005	25,296	26,321
Undergraduate	19,486	19,933	20,614	20,898	19,143	19,617
Graduate	5,666	5,713	5,839	6,107	6,153	6,704
<b>State--owned</b>						
<b>Bloomsburg</b>						
Total	6,622	6,781	6,794	7,058	7,281	7,415
Undergraduate	6,238	6,381	6,400	6,631	6,839	6,966
Graduate	384	400	394	427	442	449
<b>California</b>						
Total	5,107	5,544	5,997	6,264	6,209	6,242
Undergraduate	4,723	5,083	5,509	5,673	5,630	5,581
Graduate	384	461	488	591	579	661
<b>Cheyney</b>						
Total	1,414	1,520	1,241	1,433	1,486	1,389
Undergraduate	1,325	1,402	1,081	1,204	1,240	1,174
Graduate	89	118	160	229	246	215
<b>Clarion</b>						
Total	5,857	5,958	6,284	6,312	6,260	6,028
Undergraduate	5,479	5,554	5,889	5,916	5,820	5,659
Graduate	378	404	395	396	440	369
<b>East Stroudsburg</b>						
Total	4,410	4,728	4,824	5,250	5,384	5,309
Undergraduate	3,895	4,183	4,344	4,634	4,760	4,645
Graduate	515	545	480	616	624	664
<b>Edinboro</b>						
Total	5,608	6,105	6,673	7,098	7,548	7,651
Undergraduate	5,294	5,757	6,279	6,695	7,118	7,233
Graduate	314	348	394	403	430	418
<b>Indiana</b>						
Total	13,026	13,173	13,165	13,698	13,976	14,255
Undergraduate	12,151	12,281	12,357	12,748	12,961	13,116
Graduate	875	892	808	950	1,015	1,139
<b>Kutztown</b>						
Total	6,068	6,334	6,532	6,913	7,123	7,126
Undergraduate	5,783	6,024	6,229	6,557	6,713	6,724
Graduate	285	310	303	356	410	402
<b>Lock Haven</b>						
Total	2,705	2,834	2,970	3,176	3,505	3,599
Undergraduate	2,705	2,834	2,970	3,176	3,505	3,599
Graduate	na	na	na	a	a	a
<b>Mansfield</b>						
Total	2,580	2,606	2,830	3,035	3,070	3,149
Undergraduate	2,444	2,460	2,645	2,838	2,887	2,960
Graduate	136	146	185	197	183	189
<b>Millersville</b>						
Total	6,438	6,589	6,914	7,030	7,072	6,959
Undergraduate	5,844	5,868	6,084	6,266	6,216	6,168
Graduate	594	721	830	764	856	791
<b>Shippensburg</b>						
Total	5,840	5,958	5,901	5,978	6,015	6,197
Undergraduate	5,354	5,459	5,419	5,513	5,543	5,695
Graduate	486	499	482	465	472	502
<b>Slippery Rock</b>						
Total	6,323	6,586	6,947	7,124	7,436	7,496
Undergraduate	6,038	6,306	6,598	6,648	6,831	6,866
Graduate	285	280	349	476	605	630
<b>West Chester</b>						
Total	9,013	9,910	9,583	9,889	10,237	10,219
Undergraduate	8,212	8,987	8,657	8,898	9,121	9,135
Graduate	801	923	926	991	1,116	1,084

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 the master's level, the graduate level for Penn State, Pittsburgh, Temple and Indiana includes first professional (excluding medical) and/or doctor's levels.

a. The graduate program is not included because of its very small size.  
 na. Not applicable.

SOURCE: Reports provided by the individual universities, 1987 to 1992.

Historical Table 2

STUDENT CREDIT HOURS BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>  
 TOTAL YEAR AND SUMMER 1986-87 to 1991-92  
 (in thousands)

University	Total year							Summer			
	Lower division	Upper division	Total under-graduate	Master's	First professional	Doctor's	Total graduate	Grand total	Under-graduate	Graduate	Total
State-related											
Lincoln											
1986-87	27	7	34	5	na	na	5	39	2	a	2
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
Penn State											
1986-87	1,101	497	1,598	64	na	64	128	1,726	98	19	117
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
Pittsburgh											
1986-87	421	214	635	109	42	30	181	816	67	37	104
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
Temple											
1986-87	311	273	584	66	47	23	136	720	47	16	63
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
State-owned											
Bloomsburg											
1986-87	132	55	187	9	na	na	9	196	15	4	19
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
California											
1986-87	95	47	142	9	na	na	9	151	10	3	13
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
Cheyney											
1986-87	30	10	40	2	na	na	2	42	2	1	3
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
Clarion											
1986-87	121	44	165	9	na	na	9	174	10	2	12
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
East Stroudsburg											
1986-87	88	28	116	12	na	na	12	128	11	7	18
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	97	34	131	15	na	na	15	146	15	7	22

Edinboro											
1986-87	112	47	159	8	na	na	8	167	11	2	13
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
Indiana											
1986-87	245	120	365	21	na	b	21	386	33	6	39
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
Kutztown											
1986-87	119	55	174	7	na	na	7	181	10	2	12
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
Lock Haven											
1986-87	57	24	81	na	na	na	na	81	4	na	4
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
Mansfield											
1986-87	53	20	73	3	na	na	3	76	6	1	7
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
Millersville											
1986-87	131	44	175	14	na	na	14	189	17	8	25
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
Shippensburg											
1986-87	116	44	160	12	na	na	12	172	11	4	15
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
Slippery Rock											
1986-87	135	46	181	7	na	na	7	188	13	2	15
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
West Chester											
1986-87	175	72	247	19	na	na	19	266	18	5	23
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

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 at all universities.

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

b. Included in master's level.

c. The master's program is not included because of its very small size.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1987 to 1992.

Historical Table 3  
DEGREES CONFERRED<sup>1</sup>  
1986-87 to 1991-92

University	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92
<b>State-related</b>						
Lincoln						
Total	204	255	241	219	300	292
Bachelor's	136	156	166	134	208	207
Graduate	68	99	75	85	92	85
Penn State						
Total	9,627	9,565	9,951	10,623	11,205	11,440
Bachelor's	8,067	7,851	8,120	8,792	9,278	9,395
Graduate	1,560	1,714	1,831	1,831	1,927	2,045
Pittsburgh						
Total	6,292	6,269	6,223	6,417	6,130	6,531
Bachelor's	3,734	3,738	3,757	3,973	3,690	3,975
Graduate	2,558	2,531	2,466	2,444	2,440	2,556
Temple						
Total	4,820	4,972	5,324	5,295	5,402	5,815
Bachelor's	3,051	3,176	3,437	3,473	3,563	3,672
Graduate	1,769	1,796	1,887	1,822	1,839	2,143
<b>State-owned</b>						
Bloomsburg						
Total	1,247	1,330	1,235	1,380	1,432	1,517
Bachelor's	1,067	1,160	1,046	1,186	1,240	1,256
Graduate	180	170	189	194	192	261
California						
Total	870	913	949	1,050	1,132	1,213
Bachelor's	745	767	774	861	928	968
Graduate	125	146	175	189	204	245
Cheyney						
Total	203	195	144	187	211	246
Bachelor's	174	172	107	145	137	148
Graduate	29	23	37	42	74	98
Clarion						
Total	1,045	1,051	1,103	1,114	1,134	1,212
Bachelor's	908	894	955	924	952	1,030
Graduate	137	157	148	190	182	182
East Stroudsburg						
Total	792	756	820	902	974	987
Bachelor's	673	644	691	759	808	798
Graduate	119	112	129	143	166	189
Edinboro						
Total	914	945	1,043	1,016	1,118	1,239
Bachelor's	784	818	895	849	969	1,074
Graduate	130	127	148	167	149	165
Indiana						
Total	2,639	2,514	2,561	2,403	2,697	2,648
Bachelor's	2,277	2,118	2,182	1,921	2,285	2,241
Graduate	362	396	379	482	412	407
Kutztown						
Total	1,075	1,008	1,125	1,193	1,253	1,369
Bachelor's	963	908	1,001	1,076	1,071	1,162
Graduate	112	100	124	117	182	207
Lock Haven						
Total	446	468	462	479	533	603
Bachelor's	446	468	462	479	533	603
Graduate	na	na	na	a	a	a
Mansfield						
Total	462	441	494	507	493	610
Bachelor's	406	391	435	420	430	551
Graduate	56	50	59	87	63	59
Millersville						
Total	1,158	1,250	1,164	1,317	1,337	1,349
Bachelor's	1,032	1,126	1,045	1,170	1,167	1,162
Graduate	126	124	119	147	170	187
Shippensburg						
Total	1,366	1,517	1,447	1,252	1,408	1,491
Bachelor's	1,059	1,173	1,121	982	1,105	1,158
Graduate	307	344	326	270	303	333
Slippery Rock						
Total	1,184	1,171	1,185	1,210	1,234	1,375
Bachelor's	1,066	1,069	1,045	1,080	1,152	1,172
Graduate	118	102	140	130	82	203
West Chester						
Total	1,436	1,460	1,573	1,695	1,884	1,945
Bachelor's	1,211	1,251	1,319	1,427	1,526	1,598
Graduate	225	209	254	268	358	347

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

a. The graduate program is not included because of its very small size.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1987 to 1992.

Historical Table 4

AVERAGE WEEKLY STUDENT CONTACT HOURS OF FULL-TIME EMPLOYED FACULTY BY ACADEMIC LEVEL<sup>1</sup>  
FALL 1986 to FALL 1991

University	Full-time employed faculty head count <sup>2</sup>						Undergraduate average weekly student contact hours						Graduate average weekly student contact hours					
	1986	1987	1988	1989	1990	1991	1986	1987	1988	1989	1990	1991	1986	1987	1988	1989	1990	1991
State-related																		
Lincoln	72	68	68	71	76	81	10.2	9.3	9.8	10.0	9.8	10.4	1.1	.8	1.4	.8	.6	.5
Penn State	2,755	2,803	2,894	2,967	3,008	3,020	7.1	6.9	6.8	6.8	6.8	6.7	1.8	1.9	1.8	1.7	1.7	1.8
Pittsburgh	1,586	1,626	1,643	1,704	1,727	1,760	4.8	4.7	4.4	4.5	4.5	4.4	3.8	3.8	3.6	3.6	3.6	3.4
Temple	1,122	1,125	1,149	1,177	1,148	1,137	5.9	5.7	5.2	5.0	4.8	4.9	3.1	3.2	3.1	3.2	3.1	3.1
Total	5,535	5,622	5,754	5,919	5,959	5,998	6.2	6.1	5.8	5.8	5.8	5.7	2.6	2.7	2.6	2.5	2.5	2.5
State-owned																		
Bloomsburg	328	338	338	349	353	353	10.7	10.4	11.4	11.1	10.6	10.6	.7	.8	.9	.7	.9	.8
California	267	259	279	293	297	263	10.4	10.7	10.7	9.7	10.2	10.2	1.0	1.0	1.3	1.1	1.3	1.1
Cheyney	146	118	99	112	88	91	10.2	10.8	11.0	11.4	10.9	10.8	.7	1.0	.6	.9	1.0	.8
Clarion	323	326	336	336	351	345	10.5	10.4	10.4	10.3	10.2	10.0	.6	.6	.7	.7	.7	.7
East Stroudsburg	239	241	243	251	254	254	10.4	10.1	10.0	10.6	10.4	10.7	.8	.8	.9	.8	1.0	.9
Edinboro	301	303	326	371	388	401	11.9	12.4	12.9	12.3	12.5	12.8	.7	.7	.6	.7	.7	.6
Indiana	676	691	689	680	698	697	10.7	10.6	10.2	10.5	10.5	10.0	1.1	1.2	1.1	1.1	1.3	1.2
Kutztown	321	305	347	347	380	345	11.8	11.7	12.6	11.7	11.2	11.4	.4	.4	.5	.5	.7	.6
Lock Haven	169	172	171	182	193	203	11.5	11.2	12.1	11.5	12.2	12.0	na	na	na	a	a	a
Mansfield	172	173	166	170	172	171	10.0	9.6	10.3	10.5	11.8	10.9	.4	.3	.6	.6	.5	.5
Millersville	297	314	308	313	328	330	10.8	11.1	10.8	11.5	11.1	11.4	.5	.6	.6	.7	.6	.6
Shippensburg	291	317	310	305	310	312	9.5	9.7	9.8	9.5	9.6	9.7	1.0	1.0	.9	.9	.9	.9
Slippery Rock	333	347	350	361	368	373	11.4	11.2	11.6	11.5	10.9	10.8	.5	.6	.6	.7	.7	.8
West Chester	431	414	445	440	433	543	10.4	10.4	10.7	10.2	10.2	10.4	1.2	1.3	1.4	1.7	1.6	1.6
Total	4,294	4,318	4,407	4,510	4,613	4,681	10.8	10.8	11.0	10.8	10.8	10.8	.8	.8	.8	.9	.9	.9
All universities	9,829	9,940	10,161	10,429	10,572	10,679	8.2	8.0	8.0	7.9	7.9	7.9	1.8	1.9	1.8	1.8	1.8	1.8

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 institution for the fall term. For West Chester from 1986-87 through 1990-91 based on the academic year; for 1991-92, based on the fall term.

a. The graduate program is not included because of its very small size.  
na. Not applicable.

SOURCE: Reports provided by the individual universities, 1987 to 1992.

Historical Table 5

AVERAGE INSTRUCTIONAL SALARIES OF FULL-TIME EQUIVALENT INSTRUCTIONAL FACULTY BY RANK<sup>1</sup>  
 1986-87 to 1991-92  
 (Dollars in thousands)

University	Number of FTE instructional faculty	Average instructional salaries					No rank <sup>2</sup>
		All faculty	Professor	Associate professor	Assistant professor	Instructor	
<b>State-related</b>							
<b>Lincoln</b>							
1986-87	100	\$20.7	\$27.5	\$26.2	\$20.7	\$17.8	\$13.8
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
<b>Penn State</b>							
1986-87	3,217	29.5	47.3	35.3	28.5	20.5	21.9
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
<b>Pittsburgh</b>							
1986-87	1,794	29.3	44.4	31.6	25.2	16.0	23.6
1987-88	1,790	32.0	48.1	34.8	26.9	17.5	25.3
1988-89	1,781	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
<b>Temple</b>							
1986-87	1,527	27.7	39.4	30.6	25.6	15.6	18.4
1987-88	1,570	29.5	43.7	34.2	27.9	16.0	17.1
1988-89	1,553	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
<b>State-owned</b>							
<b>Bloomsburg</b>							
1986-87	344	31.3	39.8	32.2	26.6	21.4	na
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
<b>California</b>							
1986-87	257	32.9	39.7	32.8	25.6	18.1	16.6
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	27.9
<b>Cheyney</b>							
1986-87	119	36.2	42.8	34.7	27.8	25.5	17.1
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
<b>Clarion</b>							
1986-87	303	32.0	39.9	32.7	26.2	21.5	19.6
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	25.8	18.8
1991-92	348	43.3	54.4	44.2	35.9	28.0	34.2
<b>East Stroudsburg</b>							
1986-87	251	30.9	37.3	30.3	23.3	20.4	3.4
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	37.0	45.0	36.1	30.5	18.6	46.1
1991-92				38.6	30.8	27.0	na



Edinboro								
1986-87	318	32.5	37.1	31.4	25.9	18.1	27.3	
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	
Indiana								
1986-87	681	31.3	38.9	32.6	26.4	18.4	19.5	
1987-88	691	33.2	41.5	34.1	27.8	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	
Kutztown								
1986-87	329	32.8	40.9	33.0	26.9	20.9	33.6	
1987-88	334	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	
Lock Haven								
1986-87	156	34.7	42.2	33.8	26.5	22.1	36.0	
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	
Mansfield								
1986-87	156	32.1	40.2	32.5	26.3	18.4	na	
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	
Millersville								
1986-87	349	30.6	37.5	31.1	25.1	18.2	34.9	
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	
Shippensburg								
1986-87	297	33.3	39.6	32.4	26.3	20.6	na	
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	
Slippery Rock								
1986-87	330	32.5	40.0	32.6	26.0	21.3	43.8	
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	37.1	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	
West Chester								
1986-87	471	31.5	38.6	32.8	26.2	21.2	49.2	
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	

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 and graduate assistants and volunteers.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1987 to 1992.

Historical Table 6

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>  
1986-87 to 1991-92

University	Lower division						Upper division						Total undergraduate						Master's					
	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92
<b>State-related</b>																								
Lincoln	\$1,532	\$1,266	\$1,360	\$1,554	\$1,496	\$1,487	\$2,839	\$2,497	\$2,609	\$2,844	\$3,025	\$3,013	\$1,794	\$1,513	\$1,612	\$1,809	\$1,852	\$1,838	\$1,815	\$1,614	\$1,571	\$1,579	\$1,160	\$1,788
Penn State	1,010	1,013	1,079	1,152	1,196	1,286	1,739	1,816	1,920	2,047	2,095	2,131	1,237	1,268	1,357	1,468	1,524	1,598	2,584	2,808	3,077	3,167	3,135	3,299
Pittsburgh	990	1,064	1,044	1,126	1,216	1,356	2,050	1,986	2,025	2,072	2,140	2,230	1,348	1,382	1,372	1,438	1,518	1,650	3,241	3,608	3,759	3,995	4,173	4,539
Temple	1,126	1,216	1,180	1,168	1,283	1,312	1,593	1,692	1,638	1,684	1,785	1,902	1,345	1,441	1,394	1,411	1,537	1,621	2,328	2,679	2,657	2,712	2,541	2,642
<b>Total</b>	1,033	1,062	1,092	1,154	1,218	1,310	1,773	1,823	1,870	1,961	2,032	2,097	1,290	1,331	1,371	1,454	1,529	1,617	2,793	3,102	3,232	3,352	3,370	3,602
<b>State-owned</b>																								
Bloomsburg	1,322	1,439	1,508	1,585	1,758	1,745	2,296	2,356	2,621	2,852	2,986	3,029	1,607	1,711	1,831	1,958	2,118	2,135	1,997	2,350	2,191	2,317	2,631	2,891
California	1,301	1,401	1,345	1,494	1,585	1,702	2,049	2,392	2,176	2,402	2,470	2,768	1,547	1,710	1,610	1,790	1,882	2,032	2,958	3,072	3,044	3,290	3,320	3,535
Cheyney	2,494	2,268	2,497	2,486	2,604	2,680	4,246	4,313	4,197	4,091	3,860	3,891	2,927	2,707	2,862	2,875	2,953	3,021	4,579	3,680	4,297	3,787	2,215	2,389
Clarion	1,360	1,363	1,450	1,571	1,742	1,906	2,397	2,573	2,896	3,273	3,391	3,659	1,635	1,699	1,848	2,041	2,224	2,433	1,911	2,514	2,748	2,881	3,126	3,467
East Stroudsburg	1,438	1,491	1,532	1,620	1,694	1,792	2,863	3,034	3,044	3,209	3,202	3,394	1,784	1,859	1,898	2,013	2,093	2,224	1,555	1,494	2,271	1,776	1,898	2,003
Edinboro	1,558	1,555	1,620	1,734	1,740	1,800	2,276	2,285	2,694	2,924	2,930	3,230	1,769	1,769	1,909	2,047	2,072	2,222	3,052	2,971	3,385	3,802	3,780	3,713
Indiana	1,149	1,188	1,303	1,361	1,453	1,482	2,163	2,327	2,549	2,716	2,834	3,043	1,482	1,558	1,700	1,787	1,877	1,991	3,772	4,278	4,084	3,971	4,150	4,385
Kutztown	1,240	1,305	1,415	1,476	1,536	1,687	2,880	3,096	3,041	3,093	3,228	3,250	1,756	1,853	1,929	2,001	2,098	2,227	2,272	2,476	2,640	2,793	2,924	3,510
Lock Haven	1,567	1,641	1,561	1,639	1,705	1,906	3,022	3,167	3,498	3,202	3,322	3,675	1,997	2,084	2,099	2,082	2,157	2,392	na	na	na	a	a	a
Mansfield	1,262	1,271	1,390	1,488	1,582	1,683	3,492	3,683	4,157	3,974	3,696	3,816	1,884	1,919	2,082	2,126	2,176	2,329	2,921	3,722	2,844	2,907	3,169	3,039
Millersville	1,287	1,406	1,432	1,599	1,722	1,934	2,600	2,795	2,749	2,779	2,934	2,901	1,616	1,764	1,804	1,941	2,075	2,236	2,054	2,182	1,956	2,026	2,387	2,481
Shippensburg	1,413	1,540	1,602	1,737	1,884	1,940	2,144	2,194	2,560	2,852	2,963	3,048	1,615	1,718	1,857	2,022	2,181	2,252	2,607	2,784	3,507	3,693	3,787	3,620
Slippery Rock	1,349	1,431	1,561	1,710	1,723	1,782	2,540	2,735	3,166	3,478	3,240	3,101	1,651	1,762	1,949	2,134	2,120	2,166	2,720	3,444	3,423	2,920	2,266	2,369
West Chester	1,324	1,328	1,612	1,783	1,825	1,953	2,122	2,061	2,461	2,594	2,708	2,951	1,556	1,544	1,874	2,049	2,118	2,296	2,548	2,630	3,001	3,262	3,270	3,761
<b>Total</b>	1,349	1,405	1,495	1,606	1,692	1,786	2,434	2,559	2,771	2,934	3,005	3,157	1,662	1,736	1,860	1,990	2,083	2,210	2,614	2,834	2,980	3,031	3,053	3,279
<b>All universities</b>	1,179	1,223	1,283	1,373	1,452	1,544	2,036	2,114	2,223	2,343	2,421	2,524	1,455	1,512	1,589	1,697	1,785	1,890	2,730	3,005	3,141	3,232	3,247	3,478

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 determined by this method for each rank is summed by level and divided by total full-time equivalent students at that level. For individual instruction, one course (assigned) credit is attributed to every three student credit hours generated.

- a. The master's program is not included because of its very small size.
- na. Not applicable.

SOURCE: Reports provided by the individual universities, 1987 to 1992.

Historical Table 7

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER STUDENT CREDIT HOUR BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>  
1986-87 to 1991-92

University	Lower division						Upper division						Total undergraduate						Master's					
	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92
State-related																								
Lincoln	\$51	\$42	\$45	\$52	\$50	\$50	\$94	\$83	\$87	\$95	\$101	\$100	\$60	\$50	\$54	\$60	\$62	\$61	\$76	\$67	\$66	\$66	\$48	\$74
Penn State	34	34	36	38	40	43	58	61	64	68	70	71	41	42	45	40	51	53	108	117	128	132	131	137
Pittsburgh	33	35	35	38	41	45	68	66	68	69	71	74	45	46	46	48	51	55	135	150	157	166	174	189
Temple	38	41	39	39	43	44	53	56	55	56	60	63	45	48	46	47	51	54	97	112	111	113	106	110
Total	34	35	36	38	41	44	59	61	62	65	68	70	43	44	46	48	51	54	116	129	135	140	140	150
State-owned																								
Bloomsburg	44	48	50	53	59	58	77	79	87	95	100	101	54	57	61	65	71	71	83	98	91	97	110	120
California	43	47	45	50	53	57	68	80	73	80	82	92	52	57	54	60	63	68	123	128	127	137	138	147
Cheyney	83	76	83	83	87	89	142	144	140	136	129	130	98	90	95	96	98	101	191	153	180	158	92	100
Clarion	45	45	48	52	58	64	80	86	97	109	113	122	54	57	62	68	74	81	80	105	114	120	130	144
East Stroudsburg	48	50	51	54	56	60	95	101	101	107	107	113	59	62	63	67	70	74	65	62	95	74	79	83
Edinboro	52	52	54	58	58	60	76	76	90	97	98	108	59	59	64	68	69	74	127	124	141	158	156	155
Indiana	38	40	43	45	48	49	72	78	85	91	94	101	49	52	57	60	63	66	157	178	170	165	173	183
Kutztown	41	44	47	49	51	56	96	103	101	103	108	108	59	62	64	67	70	74	95	103	110	116	122	146
Lock Haven	52	55	52	55	57	64	101	106	117	107	111	123	67	69	70	69	72	80	na	na	na	a	a	a
Mansfield	42	42	46	50	53	56	116	123	139	132	123	127	63	64	69	71	72	78	122	155	119	121	132	127
Millersville	43	47	48	53	57	64	87	93	92	93	98	97	54	59	60	65	69	75	86	91	82	84	100	103
Shippensburg	47	51	53	58	63	65	71	73	85	95	99	102	54	57	62	67	73	75	109	116	146	154	158	151
Slippery Rock	45	48	52	57	57	59	85	91	106	116	108	103	55	59	65	71	71	72	113	144	143	122	95	99
West Chester	44	44	54	59	61	65	71	69	82	86	90	98	52	51	62	68	71	77	106	110	125	136	136	157
Total	45	47	50	54	56	60	81	85	92	98	100	105	55	58	62	66	69	74	109	118	124	126	127	137
All universities	39	41	43	46	48	51	68	70	74	78	81	84	48	50	53	57	59	63	114	125	131	135	135	145

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 determined by this method for each rank is summed by level and divided by the total student credit-hour production at 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 is not included because of its very small size.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1987 to 1992.

Historical Table 8

AVERAGE CLASS SIZES IN CLASSROOM INSTRUCTION BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>  
1986-87 to 1991-92

University	Lower division						Upper division						Total undergraduate						Master's					
	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92
State-related																								
Lincoln	19	21	21	21	22	23	11	11	12	13	13	13	16	18	18	19	19	20	12	13	14	15	16	14
Penn State	31	31	31	31	31	31	28	28	29	28	28	29	30	30	30	30	30	30	14	15	15	15	14	14
Pittsburgh	29	32	33	32	30	31	23	27	27	26	25	28	27	30	31	30	28	30	16	18	18	18	17	18
Temple	26	25	26	27	26	27	22	23	24	25	24	25	24	24	25	26	25	26	13	13	13	14	15	16
Total	29	30	30	30	30	30	25	26	27	26	26	27	28	28	29	29	28	29	15	15	15	15	15	16
State-owned																								
Bloomsburg	24	23	25	25	26	25	16	16	17	16	18	18	21	21	22	21	23	23	14	12	14	13	13	13
California	30	29	31	30	28	29	18	18	19	19	19	18	25	25	26	25	24	25	10	10	12	11	11	11
Cheyney	17	20	19	20	21	22	9	10	11	11	15	15	14	16	17	17	19	20	6	8	13	14	19	18
Clarion	33	35	36	36	34	33	17	17	17	16	16	15	26	27	28	27	25	25	16	13	13	13	13	12
East Stroudsburg	28	28	28	29	28	28	15	16	16	16	17	17	23	24	24	24	24	24	17	19	16	20	23	23
Edinboro	25	27	27	26	27	26	17	18	16	15	16	17	22	24	23	22	23	23	9	10	9	9	9	10
Indiana	31	31	31	31	32	32	18	17	17	17	17	17	25	25	25	25	25	25	7	7	8	9	9	10
Kutztown	28	30	29	30	29	28	14	14	16	16	16	16	22	23	23	24	23	23	12	13	14	13	13	13
Lock Haven	27	28	28	28	28	27	16	17	12	13	12	12	23	24	21	21	20	20	na	na	na	a	a	a
Mansfield	26	28	28	29	28	27	8	8	8	9	10	9	16	16	17	18	18	17	7	8	8	9	9	9
Millersville	26	25	25	24	23	25	13	13	13	13	14	17	21	20	20	19	19	22	11	12	13	12	13	14
Shippensburg	28	28	32	29	28	29	21	21	23	19	20	21	26	26	29	25	25	26	12	12	13	10	13	14
Slippery Rock	29	29	30	29	30	31	15	15	15	14	16	17	23	23	24	24	25	25	11	10	13	15	18	18
West Chester	25	25	24	24	24	24	16	17	16	16	16	16	22	22	21	21	20	20	10	10	10	11	12	11
Total	27	28	28	28	28	28	16	16	16	15	16	16	23	23	23	23	23	23	11	11	11	11	12	13
All universities	28	29	29	29	29	29	20	21	21	21	21	21	25	26	26	26	25	26	13	13	13	14	14	14

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

a. The master's program is not included because of its very small size.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1987 to 1992.

Historical Table 9

COMMONWEALTH APPROPRIATIONS FOR INSTRUCTION<sup>1</sup>  
1986-87 to 1991-92  
(in millions)

University	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92
<b>State-related</b>						
Lincoln <sup>2</sup>	\$7.4	\$7.9	\$8.3	\$9.0	\$9.0	\$9.3
Penn State <sup>3</sup>	136.0	142.8	150.6	178.6	181.1	189.3
Pittsburgh <sup>3</sup>	93.9	98.6	104.0	114.6	115.1	119.3
Temple	102.1	107.2	113.1	123.3	123.3	128.1
<b>Total</b>	<b>339.4</b>	<b>356.5</b>	<b>376.0</b>	<b>425.5</b>	<b>428.5</b>	<b>446.0</b>
<b>State-owned</b>						
Bloomsburg	21.3	22.4	23.7	26.0	26.3	28.3
California	17.2	18.2	19.4	21.6	22.6	24.3
Cheyney	12.0	12.4	12.5	12.5	12.5	12.8
Clarion	19.3	20.6	21.7	23.3	23.8	25.6
East Stroudsburg	15.8	16.7	17.3	18.8	19.1	20.6
Edinboro	20.2	21.1	21.7	23.4	24.4	26.3
Indiana	39.8	41.9	43.8	47.1	47.4	51.0
Kutztown	19.3	20.7	22.1	24.5	25.1	27.1
Lock Haven	11.7	12.5	13.0	14.0	14.3	15.4
Mansfield	12.2	12.9	13.2	14.0	13.9	15.1
Millersville	21.2	22.3	23.6	25.8	26.5	28.6
Shippensburg	18.8	20.0	21.2	23.0	23.0	24.8
Slippery Rock	20.7	22.3	23.7	25.6	26.2	28.3
West Chester	28.4	29.9	31.9	35.4	36.4	39.3
<b>Total<sup>4</sup></b>	<b>277.9</b>	<b>293.9</b>	<b>308.8</b>	<b>335.0</b>	<b>341.5</b>	<b>367.5</b>
<b>All universities<sup>4</sup></b>	<b>617.3</b>	<b>650.4</b>	<b>684.8</b>	<b>760.5</b>	<b>770.0</b>	<b>813.5</b>

1. For 1986-87 through 1988-89 and 1991-92, instructional appropriations include actual funding for educational and general purposes only. For 1989-90 and 1990-91, Tuition Challenge Grants are also included.

2. Includes 1986-87 and 1987-88 appropriation for desegregation.

3. Includes appropriation for Titusville campus and/or Bradford and Johnstown campuses.

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, 1988-89 to 1992-93, State System of Higher Education, Commonwealth of Pennsylvania, 1987 to 1992; and individual State-related universities, 1992.

Historical Table 10

ACADEMIC YEAR TUITION AND REQUIRED FEES FOR FULL-TIME STUDENTS  
BY ACADEMIC LEVEL AND RESIDENCE  
1986-87 to 1991-92

University	Undergraduate		Graduate <sup>1</sup>	
	In-State	Out-of-State	In-State	Out-of-State
<b>State-related</b>				
<b>Lincoln</b>				
1986-87	\$2,130	\$3,130	\$2,500	\$4,000
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
<b>Penn State</b>				
<b>Main Campus</b>				
1986-87	2,996	6,018	3,194	6,384
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	8,388
1990-91	4,048	8,444	4,520	8,960
1991-92	4,402	9,188	4,916	9,762
<b>Pittsburgh</b>				
<b>Main Campus</b>				
1986-87	3,220	6,320	3,862	7,642
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	5,526	10,836
1991-92	4,666	9,516	6,166	12,006
<b>Temple</b>				
1986-87	3,350	5,846	3,698	4,634
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
<b>State-owned</b>				
<b>Bloomsburg</b>				
1986-87	1,824	3,220	1,734	1,926
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	4,552	2,408	3,014
1991-92	2,968	5,232	2,858	3,584
<b>California</b>				
1986-87	1,970	3,366	1,970	2,162
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
<b>Cheyney</b>				
1986-87	1,880	3,276	1,860	2,052
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	2,723
1990-91	2,488	4,522	2,383	2,989
1991-92	2,838	5,102	2,733	3,459
<b>Clarion</b>				
1986-87	1,882	3,278	1,831	2,023
1987-88	2,038	3,474	1,984	2,194
1988-89	2,358	3,780	2,304	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
<b>East Stroudsburg</b>				
1986-87	1,870	3,266	1,810	2,002
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		4,656	2,500	3,108

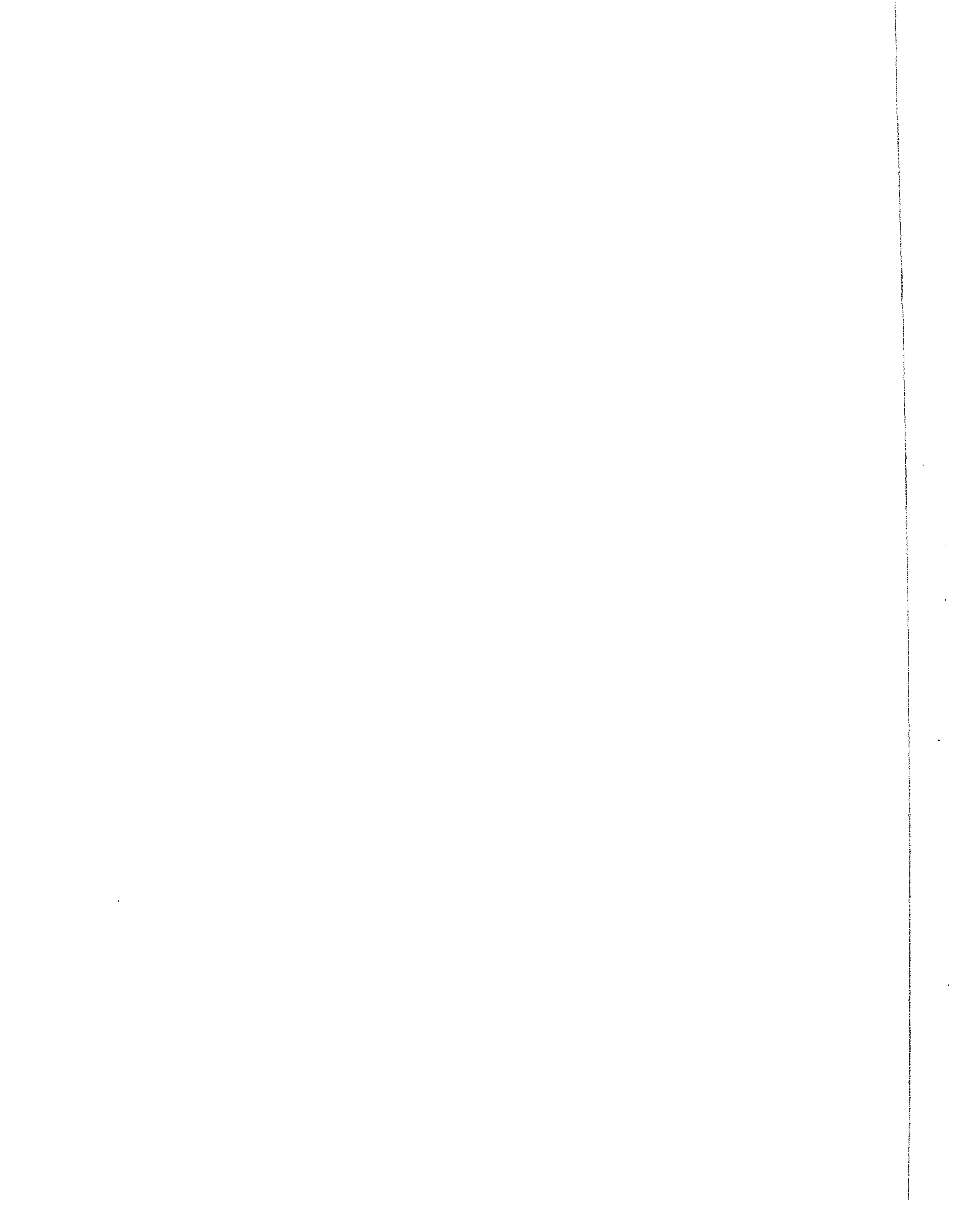
Edinboro				
1986-87	1,950	3,346	1,938	2,130
1987-88	2,120	3,556	2,096	2,306
1988-89	2,390	3,812	2,384	2,656
1989-90	2,438	4,294	2,432	2,852
1990-91	2,590	4,624	2,572	3,178
1991-92	3,013	5,277	2,995	3,721
Indiana				
Main Campus				
1986-87	1,904	3,300	1,828	2,020
1987-88	2,054	3,490	1,978	2,188
1988-89	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	5,319	2,971	3,697
Kutztown				
1986-87	1,848	3,244	1,728	1,920
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
Lock Haven				
1986-87	1,845	3,241	na	na
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
Mansfield				
1986-87	1,905	3,301	1,780	1,972
1987-88	2,055	3,491	1,930	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
Millersville				
1986-87	1,806	3,202	1,700	1,892
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	2,636	3,242
1991-92	3,100	5,364	3,100	3,826
Shippensburg				
1986-87	1,916	3,312	1,810	2,002
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	5,372	2,978	3,704
Slippery Rock				
1986-87	1,922	3,318	1,891	2,083
1987-88	2,116	3,552	2,116	2,326
1988-89	2,442	3,864	2,442	2,714
1989-90	2,504	4,360	2,504	2,924
1990-91	2,554	4,588	2,554	3,160
1991-92	3,045	5,423	3,045	3,808
West Chester				
1986-87	1,811	3,207	1,735	1,927
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

1. Excludes first-professional level.

a. The graduate program is not included because of its very small size.

na. Not applicable.

SOURCE: Pennsylvania Department of Education, Basic Student Charges at Institutions of Higher Education, 1986-87 and 1987-88 and Colleges and Universities--Basic Student Charges, 1988-89 to 1991-92.





## APPENDIX: MODEL OF FTE SALARY COST DETERMINATION

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

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

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

The second term contains control variables: instructional faculty average salary, class (section) average 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 salary cost. Adjustments in the number of classes (sections) per course are an alternative to permitting average class size to change with changes in enrollment.

Instructional faculty salary average cost per FTE student, or FTE salary cost, equals the FTE 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).

