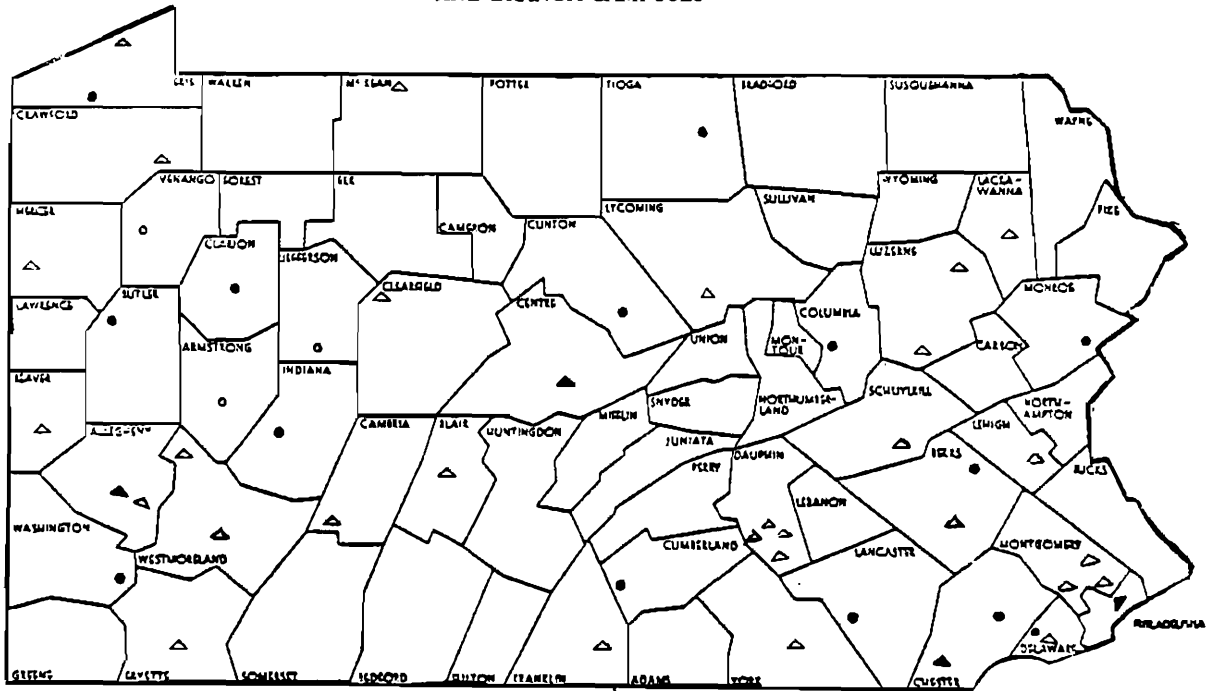


**INSTRUCTIONAL OUTPUT
AND FACULTY SALARY COSTS
OF THE STATE-RELATED
AND STATE-OWNED UNIVERSITIES**

**Analysis of 1990-91 Data
Reported Under 1990 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 1992**

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

- | | |
|--|---|
| <ul style="list-style-type: none"> Lincoln (Chester) Penn State (Centre) Allentown Campus (Lehigh) Altoona Campus (Blair) Beaver Campus (Beaver) Behrend College (Erie) Berks Campus (Berks) Capitol Campus (Dauphin) Delaware Campus (Delaware) DuBois Campus (Clearfield) Fayette Campus (Fayette) Hazleton Campus (Luzerne) Hershey Medical Center (Dauphin) King of Prussia Center for
 Graduate Studies (Montgomery) McKeesport Campus (Allegheny) Mont Alto (Franklin) New Kensington (Westmoreland) Ogontz Campus (Montgomery) | <ul style="list-style-type: none"> Penn State (Centre) (cont.) Pennsylvania College of
 Technology (Lycoming) Schuylkill Campus (Schuylkill) Shenango Valley Campus (Mercer) University Center
 at Harrisburg (Dauphin) Wilkes-Barre Campus (Luzerne) Worthington Scranton
 Campus (Lackawanna) York Campus (York) Pittsburgh (Allegheny) Bradford Campus (McKean) Greensburg Campus (Westmoreland) Johnstown Campus (Cambria) Titusville Campus (Crawford) Temple (Philadelphia) Ambler Campus (Montgomery) University Center
 at Harrisburg (Dauphin) |
|--|---|

State-Owned Universities

- | | |
|---|--|
| <ul style="list-style-type: none"> Bloomsburg (Columbia) California (Washington) Cheyney (Delaware) Clarion (Clarion) Venango Campus (Venango) East Stroudsburg (Monroe) Edinboro (Erie) Indiana (Indiana) Armstrong Campus (Armstrong) Punxsutawney Campus (Jefferson) | <ul style="list-style-type: none"> Kutztown (Berks) Lock Haven (Clinton) Mansfield (Tioga) Millersville (Lancaster) Shippensburg (Cumberland) Slippery Rock (Butler) West Chester (Chester) |
|---|--|

FOREWORD

This 19th 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 1990-91 and data trends for the past five years are presented. Student credit-hour and salary data are combined for the computation of a measure of cost efficiency: instructional faculty salary cost per full-time equivalent student. Tuition and appropriation data are combined for the computation of a measure of cost sharing: the percentage of total instructional revenues covered by instructional appropriations.

The data are intended for use by a variety of persons or groups: by legislators for making appropriation decisions; by university administrators for evaluating policies related to faculty outputs, salaries and workloads; and by Pennsylvania citizens, for making informed judgments about the levels and shares of costs related to public higher education in the Commonwealth.

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

Conrad C. M. Arensberg
Counsel
Joint State Government Commission



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I. DATA HIGHLIGHTS

1. In Fall 1990, a total of 566,027 full- and part-time students were enrolled in the 144 public and private colleges and universities in Pennsylvania. Of this total, 240,010 students (42 percent) were enrolled in the Commonwealth's public universities: 140,928 students (25 percent) in the 4 State-related universities, and 99,082 (17 percent) in the 14 State-owned universities. Pennsylvania's public universities are shown on page ii. Compared to Fall 1989, total student enrollments in all of Pennsylvania's colleges and universities increased by about 2 percent, but in the Commonwealth's public universities remained almost constant.¹
2. During the 1990-91 school year,² over 6 million undergraduate and graduate student credit hours (SCH) were generated by the public universities. These SCH were the equivalent of 212,348 full-time students: 119,746 full-time equivalent (FTE) students (56 percent) at the State-related universities, and 92,602 (44 percent) at the State-owned universities.³ (Table 1) FTE students at the public universities increased by about 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

¹Pennsylvania Department of Education, Colleges and Universities Fall Enrollments, 1990.

²Unless 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 1990-91 school year includes the summer and fall terms of 1990 plus the spring term of 1991.

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

Temple,⁴ 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 85 percent at Lincoln, about 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 the institutions have large programs in business and education, in addition to letters and the social sciences. The State-owned institutions have specialized program missions.⁵ (Tables 3A through 3E)

3. During the 1990-91 school year, the public universities conferred 40,087 bachelor's and graduate degrees (not including medical degrees): 23,244 degrees (58 percent) by the State-related universities, and 16,843 (42 percent) by the State-owned universities. Total degrees had a one-year increase of 5 percent.⁶ (Table 4)
4. Over the past 5 years (since 1985-86), the number of public university FTE students has increased by almost 11 percent, while the Commonwealth's population of 18-to-24-year olds has decreased by almost 11 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.

⁴Beginning 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.

⁵Tables 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 institutions. The CIP groupings are used to facilitate comparisons between institutions, given the large array of departments and program which exist in the Commonwealth's public universities.

⁶The public universities also award associate degrees. However, these degrees are not included in this report.

5. In Fall 1990, 10,572 teaching and research faculty were employed full-time by Pennsylvania's public universities: 5,959 full-time faculty (56 percent) by the State-related universities and 4,613 (44 percent) by the State-owned universities.⁷ The overall workweek reported by these faculty averaged 53.2 hours: 51.9 total hours at the State-related universities, and 55.1 total hours at the State-owned universities. Hours spent in undergraduate and graduate classroom and individual instruction contact with students averaged 8.3 per week for the State-related group, and 11.7 per week for the State-owned group. (Table 5) Since 1985-86, average total workweeks for both full-time faculty groups have remained almost constant, but average student contact hours have fallen by about one-half hour per week.

6. During the 1990-91 school year, the full- and part-time instructional faculty employed by the public universities were the equivalent of 11,707 full-time faculty: 6,783 FTE faculty (58 percent) at the State-related universities, and 4,924 (42 percent) at the State-owned universities.⁸ The total FTE faculty had a one-year increase of 1 percent. The salary for these faculty averaged \$36,400 and \$40,600 for the two public university groups, respectively.⁹ The average salary had a one-year increase of over 4 percent.¹⁰ The

⁷Faculty 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.

⁸Full-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.

⁹For fiscal year 1990, instructional faculty salaries comprised about 38 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.

¹⁰Caveat: Average instructional salaries are computed by dividing each institution'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 institution. 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 1985-86, the average salary for the FTE instructional faculty has increased by about \$9,100 (33 percent) at the State-related universities, and about \$10,100 (33 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 1990-91 school year, the ratio of FTE students to FTE instructional faculty averaged 17.7 for the State-related universities (a one-year decrease of about 1 percent), and 18.8 for the State-owned universities (a one-year decrease of about 1 percent). (Tables 1 and 6)
9. During the 1990-91 school year, the average instructional faculty salary costs per FTE student for the State-related university group were: undergraduate level, \$1,529, and master's level, \$3,370. For the State-owned group the FTE salary costs for the same levels were \$2,083 and \$3,053, respectively. (Table 7) First professional FTE salary costs averaged \$1,473 at Pittsburgh and \$3,469 at Temple; doctoral FTE salary costs averaged \$10,437 at Penn State, \$9,659 at Pittsburgh and \$5,206 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 1985-86, undergraduate FTE salary costs have increased by almost 25 percent for the State-related group, and by about 30 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 1990-91 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 over \$10 million, and from increasing average class (section) sizes by one student almost \$14 million.¹¹

11. The average undergraduate class (section) size is 19 at Lincoln, 30 at Penn State, 28 at Pittsburgh, 25 at Temple, and 23 at the State-owned universities. Since 1985-86, average undergraduate class sizes have remained fairly constant. (Table 9)

12. During the 1990-91 school year, the tuition and required fees for full-time in-State undergraduate students averaged \$3,807 at the State-related universities, and \$2,569 at the State-owned universities. These tuition and fees had one-year increases of 7 percent for the State-related group and 5 percent for the State-owned group. At Lincoln, tuition and fees for nonresident full-time undergraduates and graduates exceeded those for residents by about 49 percent. At Penn State and Pittsburgh, tuition and fees for nonresident full-time undergraduates and graduates 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 graduates. For the State-owned group, nonresident undergraduates paid about 80 percent more, but nonresident graduates only about 25 percent more, than Pennsylvania residents. (Table 10)

13. For fiscal year 1990-91, the public universities collected over \$883 million in tuition and fee revenues. These revenues per FTE student averaged \$3,280 at Lincoln, \$4,960 at Penn State, \$5,780 at

¹¹The 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, \$5,340 at Temple, and \$2,790 at the State-owned universities. Since 1985-86, per student revenues have grown by about 50 percent at the public universities. (Table 11)

14. For fiscal year 1990-91, the Commonwealth's General Fund appropriations to the public universities for instruction totaled \$791 million: \$450 million (57 percent) to the State-related universities and \$341 million (43 percent) to the State-owned universities.¹² Instructional appropriations included both educational and general appropriations,¹³ and Tuition Challenge Grants. These appropriations represent over 86 percent of the total appropriations made specifically for instruction to the public universities and community colleges, and over 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 6 percent at the State-related universities and by 2 percent at the State-owned universities over the previous year. The average appropriation per FTE student was \$3,760 for the State-related group (a one-year increase of 7 percent) and \$3,690 for the State-owned group (a one-year decrease of about 1 percent). (Table 12) In addition to the appropriations made directly to the public universities, monies appropriated from the General Fund to the Pennsylvania Higher Education Assistance Agency totaling over \$58 million went to students at the public universities through various PHEAA grant and matching-fund programs.¹⁴

¹²The 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.

¹³Over 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 institutions for instructional purposes.

¹⁴Data furnished by the Pennsylvania Higher Education Assistance Agency.

15. During the 1990–91 school year, on an FTE student basis, the ratio of Commonwealth instructional appropriations to institutional tuition and fee revenues plus Commonwealth instructional appropriations averaged 42 percent for the State–related university group, and 57 percent for the State–owned university group. (Table 13) Since 1985–86, 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 except Lincoln.



II. CURRENT YEAR DATA

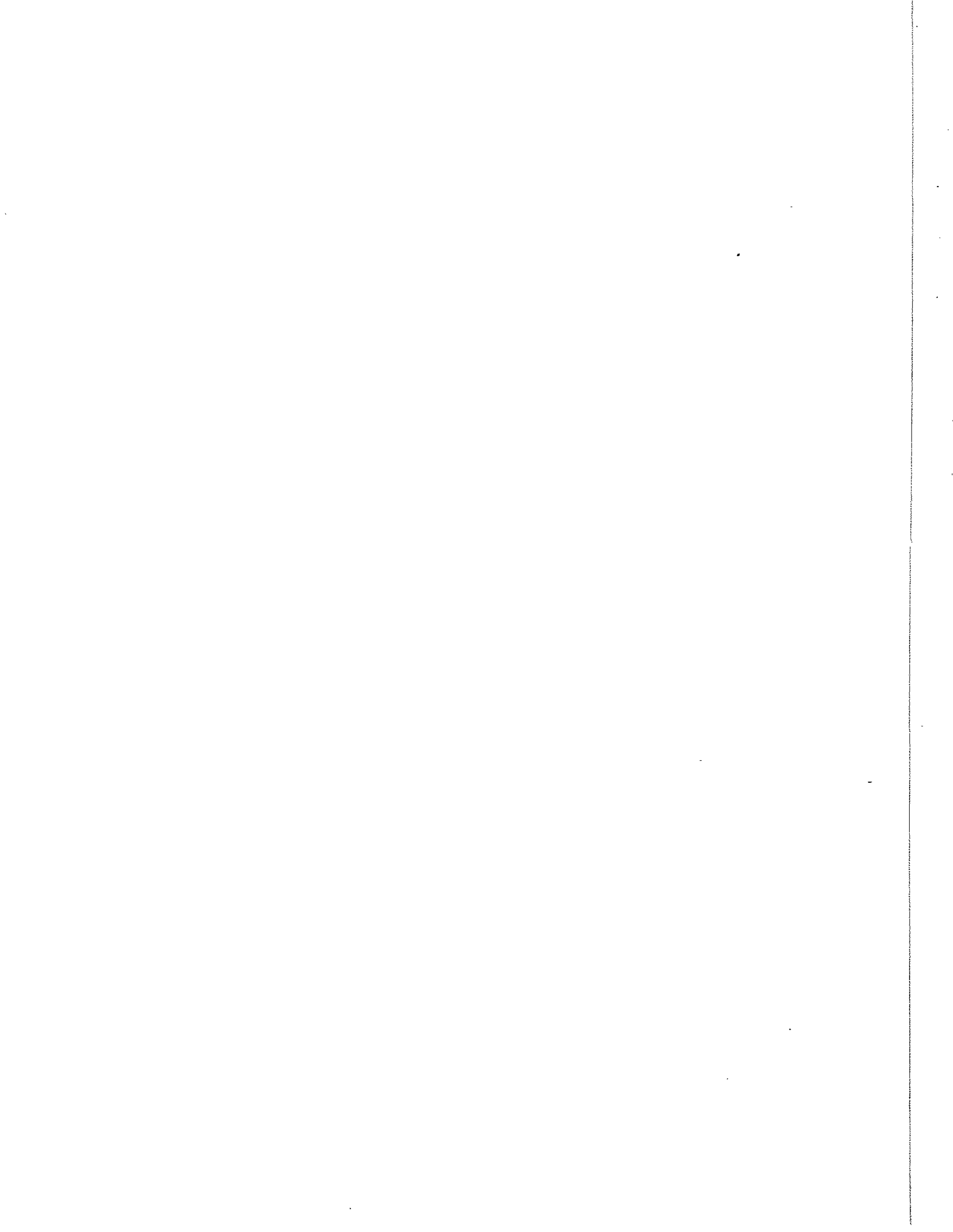


Table 1

FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC LEVEL¹
 1990-91, CHANGE FROM 1989-90 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1985-86 to 1990-91)

Institution	Total				Undergraduate				Graduate ²				
	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		
State-related													
Lincoln	1,469	75	5%	3%	1,245	74	6%	3%	224	1	a	7%	
Penn State	63,633	794	1	2	57,223	582	1	2	6,410	212	3%	5	
Pittsburgh	29,348	-389	-1	a	21,873	-234	-1	1	7,475	-155	-2	a	
Temple	25,296	-1,709	-6	a	19,143	-1,755	-8	a	6,153	46	1	1	
Total	119,746	-1,229	-1	1	99,484	-1,333	-1	1	20,262	104	1	2	
State-owned													
Bloomsburg	7,281	223	3	3	6,839	208	3	3	442	15	4	4	
California	6,209	-55	-1	6	5,630	-43	-1	5	579	-12	-2	11	
Cheyney	1,486	53	4	2	1,240	36	3	-1	246	17	7	55	
Clarion	6,260	-52	-1	1	5,820	-96	-2	1	440	44	11	4	
East Stroudsburg	5,384	134	3	5	4,760	126	3	5	624	8	1	12	
Edinboro	7,548	450	6	7	7,118	423	6	7	430	27	7	7	
Indiana	13,976	278	2	2	12,961	213	2	2	1,015	65	7	4	
Kutztown	7,123	210	3	4	6,713	156	2	3	410	54	15	12	
Lock Haven	3,505	329	10	7	3,505	329	10	7	b	b	b	b	
Mansfield	3,070	35	1	3	2,887	49	2	2	183	-14	-7	3	
Millersville	7,072	42	1	3	6,216	-50	-1	2	856	92	12	12	
Shippensburg	6,015	37	1	1	5,543	30	1	1	472	7	2	-1	
Slippery Rock	7,436	312	4	4	6,831	183	3	3	605	129	27	24	
West Chester	10,237	348	4	4	9,121	223	3	3	1,116	125	13	11	
Total	92,602	2,344	3	3	85,184	1,787	2	3	7,418	557	8	9	
All institutions	212,348	1,115	1	2	184,668	454	a	2	27,680	661	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 institutions, 1986 to 1991.

Table 2

FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC DIVISION AND LEVEL¹
 1990-91, CHANGE FROM 1989-90 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1985-86 to 1990-91)

Institution	Lower division			Upper division			Master's			First professional ² and doctor's		
	FTE students	Percentage change		FTE students	Percentage change		FTE students	Percentage change		FTE students	Percentage change	
		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average
State-related												
Lincoln	955	2%	2%	290	26%	7%	224	a	7%	na	na	na
Penn State	36,358	-1	1	20,865	4	3	3,400	-2%	6	3,010	10%	3%
Pittsburgh	14,714	-1	1	7,159	-2	a	4,901	4	2	2,574	-11	-3
Temple	9,455	-15	-1	9,688	-1	2	3,188	2	3	2,965	a	-1
Total	61,482	-3	1	38,002	2	2	11,713	2	3	8,549	-1	-1
State-owned												
Bloomsburg	4,835	3	3	2,004	3	3	442	4	4	na	na	na
California	3,742	-2	5	1,888	2	6	579	-2	11	na	na	na
Cheyney	896	-2	-2	344	18	2	246	7	55	na	na	na
Clarion	4,120	-4	1	1,700	4	3	440	11	4	na	na	na
East Stroudsburg	3,501	a	5	1,259	10	4	624	1	12	na	na	na
Edinboro	5,132	4	7	1,986	13	7	430	7	7	na	na	na
Indiana	8,982	3	2	3,979	-1	1	1,015	7	4	b	b	b
Kutztown	4,486	1	3	2,227	5	4	410	15	12	na	na	na
Lock Haven	2,525	11	7	980	9	5	c	c	c	na	na	na
Mansfield	2,075	-2	2	812	11	2	183	-7	3	na	na	na
Millersville	4,409	-1	a	1,807	a	7	856	12	12	na	na	na
Shippensburg	4,015	-2	1	1,528	9	2	472	2	-1	na	na	na
Slippery Rock	5,042	a	3	1,789	12	5	605	27	24	na	na	na
West Chester	6,095	2	2	3,026	4	7	1,116	13	11	na	na	na
Total	59,855	1	3	25,329	5	4	7,418	8	9	na	na	na
All institutions	121,337	-1	2	63,331	3	3	19,131	4	5	8,549	-1	-1

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 institutions, 1986 to 1991.

Table 3A

LINCOLN UNIVERSITY
 NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
 1990-91

CIP Classification	Total	Percent- age of total	Undergraduate			Percent- age of total	Graduate ³	Percent- age of total
			Lower division	Percent- age of total	Upper division			
Agriculture	--	--	--	--	--	--	--	--
Architecture and environmental design	--	--	--	--	--	--	--	--
Area and ethnic studies	--	--	--	--	--	--	--	--
Business	127	9%	40	4%	87	30%	--	--
Communications	--	--	--	--	--	--	--	--
Computer and information sciences	--	--	--	--	--	--	--	--
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	246	17	211	22	35	12	--	--
Engineering	--	--	--	--	--	--	--	--
Foreign languages	73	5	60	6	13	5	--	--
Health	--	--	--	--	--	--	--	--
Home economics	--	--	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--	--	--
Law	--	--	--	--	--	--	--	--
Letters	186	13	156	16	30	10	--	--
Liberal/general studies	--	--	--	--	--	--	--	--
Library and archival sciences	--	--	--	--	--	--	--	--
Life sciences	83	6	76	8	7	2	--	--
Mathematics	155	11	144	15	11	4	--	--
Military sciences	--	--	--	--	--	--	--	--
Multi/interdisciplinary studies	3	a	3	a	--	--	--	--
Parks and recreation	--	--	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--	--	--
Philosophy, religion and theology	49	3	44	5	5	2	--	--
Physical sciences	83	6	67	7	16	6	--	--
Psychology	48	3	34	4	14	5	--	--
Public affairs and protective services	224	15	--	--	--	--	224	100%
Social sciences	190	13	120	13	70	24	--	--
Trade and industrial	--	--	--	--	--	--	--	--
Visual and performing arts	--	--	--	--	--	--	--	--
Other	--	--	--	--	--	--	--	--
Total ⁴	1,469	100	955	100	290	100	224	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 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, 1991.

Table 3B

THE PENNSYLVANIA STATE UNIVERSITY
 NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
 1990-91

CIP Classification	Total	Undergraduate				Graduate ³	Percent- age of total	
		Percent- age of total	Lower division	Percent- age of total	Upper division			
Agriculture	750	1%	164	a	475	2%	111	2%
Architecture and environmental design	444	1	241	1%	190	1	13	a
Area and ethnic studies	285	a	182	1	85	a	18	a
Business	7,653	12	2,613	7	4,252	20	788	12
Communications	795	1	209	1	567	3	19	a
Computer and information sciences	1,367	2	1,030	3	237	1	100	2
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	6,014	9	1,965	5	2,320	11	1,729	27
Engineering	5,695	9	1,481	4	3,005	14	1,209	19
Foreign languages	2,103	3	1,671	5	339	2	93	1
Health	724	1	175	a	519	2	30	a
Home economics	1,265	2	772	2	377	2	116	2
Industrial arts	--	--	--	--	--	--	--	--
Law	--	--	--	--	--	--	--	--
Letters	6,391	10	4,114	11	2,005	10	272	4
Liberal/general studies	63	a	29	a	34	a	--	--
Library and archival sciences	8	a	2	a	6	a	--	--
Life sciences	3,199	5	2,303	6	686	3	210	3
Mathematics	5,917	9	5,043	14	665	3	209	3
Military sciences	119	a	56	a	63	a	--	--
Multi/interdisciplinary studies	1,126	2	568	2	403	2	155	2
Parks and recreation	224	a	43	a	156	1	25	a
Personal and social development	--	--	--	--	--	--	--	--
Philosophy, religion and theology	997	2	793	2	165	1	39	1
Physical sciences	5,096	8	3,886	11	653	3	557	9
Psychology	1,958	3	1,305	4	506	2	147	2
Public affairs and protective services	825	1	176	a	473	2	176	3
Social sciences	7,105	11	4,827	13	1,986	10	292	5
Trade and industrial	343	1	343	1	--	--	--	--
Visual and performing arts	3,163	5	2,365	7	698	3	100	2
Other	--	--	--	--	--	--	--	--
Total⁴	63,633	100	36,358	100	20,865	100	6,410	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 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, 1991.

Table 3C

UNIVERSITY OF PITTSBURGH
 NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
 1990-91

CIP Classification	Total	Undergraduate				Graduate ³	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	224	1%	144	1%	68	1%	a
Business	2,451	8	294	2	848	12	18%
Communications	45	a	3	a	22	a	a
Computer and information sciences	957	3	576	4	168	2	3
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--
Education	1,822	6	299	2	374	5	15
Engineering	1,589	5	478	3	668	9	6
Foreign languages	1,095	4	808	5	223	3	1
Health	2,694	9	317	2	1,070	15	17
Home economics	115	a	4	a	78	1	a
Industrial arts	--	--	--	--	--	--	--
Law	941	3	--	--	--	941	13
Letters	3,585	12	2,358	16	1,008	14	3
Liberal/general studies	--	--	--	--	--	--	--
Library and archival sciences	193	1	--	--	--	193	3
Life sciences	831	3	565	4	191	3	1
Mathematics	1,825	6	1,539	10	196	3	1
Military sciences	12	a	7	a	5	a	--
Multi/interdisciplinary studies	304	1	218	1	64	1	a
Parks and recreation	--	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--	--
Philosophy, religion and theology	684	2	549	4	87	1	1
Physical sciences	2,273	8	1,826	12	137	2	4
Psychology	1,600	5	1,188	8	302	4	1
Public affairs and protective services	1,157	4	133	1	375	5	9
Social sciences	3,791	13	2,485	17	1,105	15	3
Trade and industrial	--	--	--	--	--	--	--
Visual and performing arts	1,158	4	922	6	170	2	1
Other	--	--	--	--	--	--	--
Total ⁴	29,348	100	14,714	100	7,159	100	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, 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, 1991.

Table 3D

TEMPLE UNIVERSITY
 NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
 1990-91

CIP Classification	Total	Undergraduate				Graduate ³	Percent- age of total	
		Percent- age of total	Lower division	Percent- age of total	Upper division			
Agriculture	161	1%	83	1%	77	1%	1	a
Architecture and environmental design	--	--	--	--	--	--	--	--
Area and ethnic studies	258	1	132	1	81	1	45	1%
Business	3,885	15	1,053	11	2,125	22	707	11
Communications	913	4	296	3	485	5	132	2
Computer and information sciences	451	2	142	2	187	2	122	2
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	2,977	12	736	8	967	10	1,274	21
Engineering	860	3	287	3	515	5	58	1
Foreign languages	745	3	455	5	241	2	49	1
Health	1,834	7	63	1	884	9	887	14
Home economics	--	--	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--	--	--
Law	1,371	5	13	a	9	a	1,349	22
Letters	1,828	7	1,130	12	604	6	94	2
Liberal/general studies	366	1	299	3	65	1	2	a
Library and archival sciences	--	--	--	--	--	--	--	--
Life sciences	593	2	251	3	195	2	147	2
Mathematics	1,373	5	1,003	11	287	3	83	1
Military sciences	5	a	2	a	3	a	--	--
Multi/interdisciplinary studies	5	a	5	a	--	--	--	--
Parks and recreation	144	1	52	1	68	1	24	a
Personal and social development	--	--	--	--	--	--	--	--
Philosophy, religion and theology	641	3	362	4	196	2	83	1
Physical sciences	968	4	566	6	314	3	88	1
Psychology	806	3	363	4	351	4	92	1
Public affairs and protective services	802	3	192	2	299	3	311	5
Social sciences	2,778	11	1,309	14	1,124	12	345	6
Trade and industrial	--	--	--	--	--	--	--	--
Visual and performing arts	1,534	6	661	7	611	6	262	4
Other	--	--	--	--	--	--	--	--
Total⁴	25,296	100	9,455	100	9,688	100	6,153	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, 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, 1991.

Table 3E

STATE-OWNED UNIVERSITIES
NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS¹
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
1990-91

CIP Classification	Total	Percent- age of total	Undergraduate			Percent- age of total	Graduate ³	Percent- age of total
			Lower division	Percent- age of total	Upper division			
Agriculture	34	a	28	a	3	a	3	a
Architecture and environmental design	6	a	3	a	2	a	1	a
Area and ethnic studies	308	a	160	a	133	1%	15	a
Business	9,081	10%	3,661	6%	4,959	20	461	6%
Communications	2,426	3	1,358	2	989	4	79	1
Computer and information sciences	2,102	2	1,633	3	309	1	160	2
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	18,316	20	6,539	11	7,754	31	4,023	54
Engineering	299	a	99	a	167	1	33	a
Foreign languages	2,405	3	2,011	3	372	1	22	a
Health	2,156	2	590	1	1,144	5	422	6
Home economics	503	1	277	a	205	1	21	a
Industrial arts	294	a	130	a	129	1	35	a
Law	159	a	93	a	56	a	10	a
Letters	9,632	10	7,883	13	1,409	6	340	5
Liberal/general studies	182	a	172	a	10	a	--	--
Library and archival sciences	285	a	41	a	61	a	183	2
Life sciences	4,297	5	3,572	6	600	2	125	2
Mathematics	5,928	6	5,138	9	646	3	144	2
Military sciences	152	a	103	a	49	a	--	--
Multi/interdisciplinary studies	324	a	155	a	78	a	91	1
Parks and recreation	420	a	218	a	175	1	27	a
Personal and social development	507	1	405	1	92	a	10	a
Philosophy, religion and theology	1,817	2	1,613	3	186	1	18	a
Physical sciences	4,954	5	4,400	7	467	2	87	1
Psychology	4,871	5	3,235	5	1,094	4	542	7
Public affairs and protective services	1,284	1	578	1	624	2	82	1
Social sciences	13,824	15	10,859	18	2,624	10	341	5
Trade and industrial	30	a	11	a	19	a	--	--
Visual and performing arts	5,899	6	4,789	8	973	4	137	2
Other	110	a	104	a	3	a	3	a
Total ⁴	92,602	100	59,855	100	25,329	100	7,418	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 institutions 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 institutions, 1991.

Table 4

DEGREES CONFERRED¹
 1990-91, CHANGE FROM 1989-90 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1985-86 to 1990-91)

Institution	Total				Bachelor's				Graduate ²			
	Degrees	One-year change	Percentage change		Degrees	One-year change	Percentage change		Degrees	One-year change	Percentage change	
		One-year	Five-year	average		One-year	Five-year	average		One-year	Five-year	average
State-related												
Lincoln	300	81	37%	7%	208	74	55%	6%	92	7	8%	7%
Penn State	11,205	582	5	2	9,278	486	6	2	1,927	96	5	4
Pittsburgh	6,337	-80	-1	a	3,772	-201	-5	a	2,565	121	5	a
Temple	5,402	107	2	2	3,563	90	3	4	1,839	17	1	a
Total	23,244	690	3	2	16,821	449	3	2	6,423	241	4	1
State-owned												
Bloomsburg	1,432	52	4	3	1,240	54	5	2	192	-2	-1	10
California	1,132	82	8	7	928	67	8	6	204	15	8	13
Cheyney	211	24	13	-4	137	-8	-6	-9	74	32	76	54
Clarion	1,134	20	2	2	952	28	3	1	182	-8	-4	9
East Stroudsburg	974	72	8	3	808	49	6	3	166	23	16	6
Edinboro	1,118	102	10	5	969	120	14	6	149	-18	-11	a
Indiana	2,697	294	12	1	2,285	364	19	a	412	-70	-15	5
Kutztown	1,253	60	5	5	1,071	-5	a	5	182	65	56	10
Lock Haven	533	54	11	3	533	54	11	3	b	b	b	b
Mansfield	496	-11	-2	a	434	14	3	1	62	-25	-29	-5
Millersville	1,337	20	2	3	1,167	-3	a	3	170	23	16	8
Shippensburg	1,408	156	12	1	1,105	123	13	2	303	33	12	-2
Slippery Rock	1,234	24	2	5	1,152	72	7	6	82	-48	-37	-6
West Chester	1,884	189	11	7	1,526	99	7	6	358	90	34	11
Total	16,843	1,138	7	3	14,307	1,028	8	3	2,536	110	5	5
All institutions	40,087	1,828	5	2	31,128	1,477	5	2	8,959	351	4	2

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

2. Graduate includes master's at all institutions except Lock Haven, first professional (excluding medical schools) and doctor's at Pittsburgh and Temple, and doctor's at Penn State 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 institutions, 1986 to 1991.

Table 5

WORKWEEKS OF FULL-TIME EMPLOYED FACULTY BY TYPE OF ACTIVITY
1990-91, AND PERCENTAGE CHANGE FROM 1989-90

Institution	Full-time employed faculty ¹		Average weekly hours ²											
	Number	Percentage change 1989-90 to 1990-91	Student contact				Instructional support ³	Percentage change	Research	Percentage change	Other university service ⁴	Percentage change	Total work-week	Percentage change
			Under-graduate	Percentage change	Graduate	Percentage change								
State-related														
Lincoln	76	7%	9.8	-2%	.6	-25%	18.5	-1%	10.8	-9%	9.6	-16%	49.3	-7%
Penn State	3,008	1	6.8	0	1.7	0	19.5	-1	17.0	3	6.9	3	51.9	1
Pittsburgh	1,727	1	4.5	0	3.6	0	15.4	0	17.3	0	10.9	2	51.7	a
Temple	1,148	-2	4.8	-4	3.1	-3	17.6	17	15.2	19	11.2	-33	51.9	-2
Total	5,959	1	5.8	0	2.5	0	18.0	3	16.7	4	8.9	-10	51.9	a
State-owned														
Bloomsburg	353	1	10.6	-5	.9	29	16.5	-7	9.2	-2	18.2	15	55.4	1
California	297	1	10.2	5	1.3	18	16.2	-1	7.1	-14	18.4	5	53.2	a
Cheyney	88	-21	10.9	-4	1.0	11	16.2	0	7.7	-7	14.4	8	50.2	a
Clarion	351	4	10.2	-1	.7	0	16.8	0	8.5	1	14.8	-1	51.0	a
East Stroudsburg	254	1	10.4	-2	1.0	25	17.0	-3	10.0	10	16.1	4	54.5	2
Edinboro	388	5	12.5	2	.7	0	19.1	2	8.2	4	14.6	0	55.0	1
Indiana	698	3	10.5	0	1.3	18	16.8	-4	10.8	2	18.8	1	58.2	a
Kutztown	380	10	11.2	-4	.7	40	16.0	-2	8.3	-1	16.4	-1	52.6	-2
Lock Haven	193	6	12.2	6	b	b	17.0	1	7.3	-3	17.8	-3	54.3	a
Mansfield	172	1	11.8	12	.5	-17	21.6	10	9.8	1	19.6	8	63.3	8
Millersville	328	5	11.1	-3	.6	-14	16.2	0	8.0	-5	16.8	1	52.7	-1
Shippensburg	310	2	9.6	1	.9	0	16.7	4	7.5	-4	16.3	-5	51.0	-1
Slippery Rock	368	2	10.9	-5	.7	0	18.6	-3	9.6	-8	17.1	-4	56.9	-5
West Chester	433	-2	10.2	0	1.6	-6	18.4	-4	9.7	8	19.2	0	59.1	a
Total	4,613	2	10.8	0	.9	0	17.3	-2	8.9	-1	17.2	1	55.1	a
All institutions	10,572	1	7.9	0	1.8	0	17.7	1	13.3	2	12.5	-3	53.2	a

1. The number of full-time employed faculty for 1990-91 represents those reported by each institution 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 institutions, 1990 and 1991.

Table 6

AVERAGE INSTRUCTIONAL SALARIES OF FULL-TIME EQUIVALENT INSTRUCTIONAL FACULTY AND PERCENTAGE DISTRIBUTION BY RANK¹
1990-91
(Dollars in thousands)

Institution	FTE instructional faculty		Average instructional salary		Professor		Associate professor		Assistant professor		Instructor		No rank ²	
	Number	Percentage change	Amount	Percentage change	Average instructional salary	Percent- age of faculty	Average instructional salary	Percent- age of faculty	Average instructional salary	Percent- age of faculty	Average instructional salary	Percent- age of faculty	Average instructional salary	Percent- age of faculty
		1989-90 to 1990-91		1989-90 to 1990-91										
State-related														
Lincoln	109	8%	\$23.5	-4%	\$32.6	18%	\$29.1	14%	\$22.0	29%	\$17.4	20%	\$19.5	19%
Penn State	3,426	1	37.7	5	62.5	15	44.8	17	36.8	26	27.6	15	25.6	27
Pittsburgh	1,739	-1	37.7	5	58.5	19	41.6	25	32.9	21	21.0	12	28.6	23
Temple	1,509	-3	32.8	3	48.0	26	37.8	21	32.6	15	19.0	12	21.2	26
Total	6,783	a	36.4	5	56.6	19	42.0	20	34.9	22	24.1	13	25.2	26
State-owned														
Bloomsburg	374	1	41.8	11	52.2	28	43.2	31	35.0	34	26.1	7	na	0
California	319	3	39.2	0	50.2	34	42.3	28	32.3	20	21.3	18	28.0	a
Cheyney	91	-8	46.3	5	53.4	36	44.2	49	37.1	10	32.8	5	41.3	a
Clarion	354	3	40.4	5	51.4	30	42.0	30	33.2	27	25.8	13	18.8	a
East Stroudsburg	285	1	39.1	6	47.4	37	38.6	30	30.8	26	27.0	7	na	0
Edinboro	426	5	38.4	2	48.6	36	39.6	20	31.0	36	24.6	8	na	0
Indiana	697	2	41.0	5	50.1	35	41.0	28	33.2	28	26.8	8	61.2	1
Kutztown	366	3	41.8	5	53.1	28	42.9	32	34.6	31	26.5	9	61.0	a
Lock Haven	188	12	40.3	3	53.2	25	42.2	34	33.1	30	23.8	10	22.0	1
Mansfield	170	0	40.5	4	51.6	33	42.2	26	34.9	29	21.3	12	na	0
Millersville	372	5	40.2	4	51.0	31	42.8	28	33.4	27	24.4	14	na	0
Shippensburg	313	2	44.3	6	51.2	49	41.8	26	34.6	20	26.4	5	na	0
Slippery Rock	397	4	39.8	-2	50.1	34	39.1	24	33.2	33	27.7	8	6.4	1
West Chester	572	3	40.2	4	53.9	26	43.7	27	33.7	32	23.6	15	56.2	a
Total	4,924	3	40.6	4	50.9	33	41.8	28	33.3	29	24.8	10	39.4	a
All institutions	11,707	1	38.2	4	53.4	25	41.9	23	34.1	25	24.4	12	25.3	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 institutions, 1990 and 1991.

Table 7

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT BY ACADEMIC DIVISION AND LEVEL¹
 1990-91, CHANGE FROM 1989-90 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1985-86 to 1990-91)

Institution	Percentage change			Undergraduate			Total under-graduate	Percentage change		Master's		
	Lower division	One-year	Five-year average	Upper division	One-year	Five-year average		One-year	Five-year average	Total master's	One-year	Five-year average
State-related												
Lincoln	\$1,496	-4%	2%	\$3,025	6%	4%	\$1,852	2%	3%	\$1,160	-27%	-7%
Penn State	1,196	4	5	2,095	2	8	1,524	4	7	3,135	-1	6
Pittsburgh	1,216	8	6	2,140	3	3	1,518	6	4	4,173	4	6
Temple	1,283	10	2	1,785	6	1	1,537	9	2	2,541	-6	3
Total	1,218	6	4	2,032	4	5	1,529	5	5	3,370	1	5
State-owned												
Bloomsburg	1,758	11	7	2,986	5	7	2,118	8	7	2,631	14	5
California	1,585	6	5	2,470	3	2	1,882	5	4	3,320	1	2
Cheyney	2,604	5	-1	3,860	-6	-4	2,953	3	-2	2,215	-42	-13
Clarion	1,742	11	8	3,391	4	11	2,224	9	10	3,126	9	8
East Stroudsburg	1,694	5	6	3,202	a	4	2,093	4	5	1,898	7	1
Edinboro	1,740	a	2	2,930	a	5	2,072	1	3	3,780	-1	8
Indiana	1,453	7	7	2,834	4	8	1,877	5	7	4,150	5	3
Kutztown	1,536	4	6	3,228	4	5	2,098	5	6	2,924	5	5
Lock Haven	1,705	4	2	3,322	4	5	2,157	4	3	b	b	b
Mansfield	1,582	6	6	3,696	-7	5	2,176	2	5	3,169	9	a
Millersville	1,722	8	8	2,934	6	4	2,075	7	7	2,387	18	6
Shippensburg	1,884	8	8	2,963	4	9	2,181	8	8	3,787	3	10
Slippery Rock	1,723	1	7	3,240	-7	7	2,120	-1	8	2,266	-22	-4
West Chester	1,825	2	8	2,708	4	3	2,118	3	7	3,270	3	5
Total	1,692	5	6	3,005	2	6	2,083	5	6	3,053	1	3
All institutions	1,452	6	5	2,421	3	6	1,785	5	6	3,247	a	4

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. In the case of 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 institutions, 1986 to 1991.

Table 8A

LINCOLN UNIVERSITY
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
 1990-91

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional	Doctor's
Agriculture	--	--	--	--	--	--
Architecture and environmental design	--	--	--	--	--	--
Area and ethnic studies	--	--	--	--	--	--
Business	\$1,621	\$1,383	\$1,458	--	--	--
Communications	--	--	--	--	--	--
Computer and information sciences	--	--	--	--	--	--
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,456	3,427	1,736	--	--	--
Engineering	--	--	--	--	--	--
Foreign languages	1,397	4,924	2,025	--	--	--
Health	--	--	--	--	--	--
Home economics	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--
Law	--	--	--	--	--	--
Letters	1,402	3,753	1,781	--	--	--
Liberal/general studies	--	--	--	--	--	--
Library and archival sciences	--	--	--	--	--	--
Life sciences	1,379	6,229	1,789	--	--	--
Mathematics	1,436	4,067	1,623	--	--	--
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	1,428	--	1,428	--	--	--
Parks and recreation	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	1,038	5,723	1,516	--	--	--
Physical sciences	2,376	5,933	3,062	--	--	--
Psychology	1,478	3,921	2,191	--	--	--
Public affairs and protective services	--	--	--	\$1,160	--	--
Social sciences	1,525	2,767	1,962	--	--	--
Trade and industrial	--	--	--	--	--	--
Visual and performing arts	--	--	--	--	--	--
Other	--	--	--	--	--	--
Total	1,496	3,025	1,852	1,160	--	--

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. In the case of 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, 1991.

Table 8B

THE PENNSYLVANIA STATE UNIVERSITY
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
 1990-91

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total under-graduate	Master's	First professional ³	Doctor's
Agriculture	\$1,768	\$2,430	\$2,260	\$5,440	--	\$10,691
Architecture and environmental design	1,456	4,454	2,777	17,438	--	16,551
Area and ethnic studies	1,309	2,508	1,691	3,534	--	24,575
Business	1,217	1,518	1,403	2,434	--	8,163
Communications	1,309	2,647	2,287	4,686	--	17,093
Computer and information sciences	1,722	2,506	1,869	3,211	--	11,012
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	936	2,071	1,551	1,251	--	6,881
Engineering	2,664	2,389	2,480	4,354	--	11,743
Foreign languages	1,269	3,158	1,587	7,093	--	8,929
Health	998	3,092	2,564	8,013	--	8,469
Home economics	570	1,860	993	4,335	--	10,201
Industrial arts	--	--	--	--	--	--
Law	--	--	--	--	--	--
Letters	1,426	1,843	1,563	3,207	--	11,854
Liberal/general studies	1,393	1,944	1,690	--	--	--
Library and archival sciences	9,187	1,279	3,256	--	--	--
Life sciences	799	1,797	1,028	8,071	--	11,349
Mathematics	1,270	2,410	1,403	3,114	--	14,863
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	1,314	3,611	2,267	4,187	--	11,003
Parks and recreation	771	1,773	1,556	5,404	--	22,581
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	982	2,729	1,283	9,633	--	14,967
Physical sciences	1,154	2,211	1,306	7,957	--	11,707
Psychology	588	1,554	858	4,212	--	8,423
Public affairs and protective services	1,336	2,112	1,902	3,748	--	8,878
Social sciences	877	1,788	1,142	2,916	--	12,015
Trade and industrial	2,733	--	2,733	--	--	--
Visual and performing arts	1,037	2,902	1,462	6,702	--	10,611
Other	--	--	--	--	--	--
Total	1,196	2,095	1,524	3,135	--	10,437

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. In the case of 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, 1991.

Table 8C

UNIVERSITY OF PITTSBURGH
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
 1990-91

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional ³	Doctor's
Agriculture	--	--	--	--	--	--
Architecture and environmental design	--	--	--	--	--	--
Area and ethnic studies	\$1,316	\$2,596	\$1,726	\$3,349	--	\$9,755
Business	1,516	1,503	1,506	1,569	--	15,881
Communications	1,366	3,543	3,282	3,796	--	3,330
Computer and information sciences	1,222	2,897	1,600	2,838	--	9,641
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,243	2,636	2,017	2,846	--	5,796
Engineering	2,109	2,854	2,543	5,695	--	11,499
Foreign languages	1,709	2,660	1,915	5,962	--	11,985
Health	2,161	1,892	1,954	9,198	\$1,257	22,372
Home economics	1,081	2,502	2,432	3,466	--	--
Industrial arts	--	--	--	--	--	--
Law	--	--	--	9,096	1,624	--
Letters	1,327	1,576	1,401	4,567	--	7,976
Liberal/general studies	--	--	--	--	--	--
Library and archival sciences	--	--	--	2,586	--	10,353
Life sciences	1,322	2,816	1,700	7,664	--	11,166
Mathematics	1,261	3,299	1,491	4,214	--	12,622
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	1,174	1,177	1,174	5,640	--	10,316
Parks and recreation	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	1,209	2,771	1,423	7,591	--	17,008
Physical sciences	1,038	4,229	1,260	7,043	--	8,062
Psychology	658	1,712	871	5,478	--	6,365
Public affairs and protective services	1,104	1,760	1,588	3,809	--	7,043
Social sciences	1,041	1,964	1,325	6,627	--	14,740
Trade and industrial	--	--	--	--	--	--
Visual and performing arts	1,029	3,442	1,405	5,671	--	10,096
Other	--	--	--	--	--	--
Total	1,216	2,140	1,518	4,173	1,473	9,659

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. In the case of 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, 1991.

Table 8D

TEMPLE UNIVERSITY
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
 1990-91

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total under-graduate	Master's	First professional ³	Doctor's
Agriculture	\$1,902	\$2,305	\$2,096	\$840	--	--
Architecture and environmental design	--	--	--	--	--	--
Area and ethnic studies	1,250	1,987	1,530	2,596	--	\$3,150
Business	1,085	1,340	1,255	2,045	\$2,492	8,048
Communications	1,123	2,012	1,675	2,961	--	5,453
Computer and information sciences	1,357	2,380	1,938	2,630	--	3,721
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,038	1,722	1,426	1,652	--	4,121
Engineering	1,660	2,486	2,191	3,136	--	4,912
Foreign languages	1,515	2,321	1,794	2,597	1,378	4,967
Health	1,841	1,412	1,441	2,898	6,843	5,982
Home economics	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--
Law	1,451	3,977	2,484	3,785	2,201	--
Letters	1,315	1,720	1,456	4,500	--	4,949
Liberal/general studies	1,194	1,182	1,192	3,344	--	--
Library and archival sciences	--	--	--	--	--	--
Life sciences	697	1,139	890	3,013	1,975	5,389
Mathematics	1,389	1,868	1,496	2,477	--	6,666
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	--	--	--	--	--	--
Parks and recreation	1,610	2,268	1,983	3,341	--	5,968
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	1,228	1,854	1,448	6,407	1,974	6,836
Physical sciences	1,136	1,614	1,307	4,097	--	8,026
Psychology	860	1,545	1,197	2,661	--	4,765
Public affairs and protective services	1,336	2,046	1,768	2,409	994	--
Social sciences	1,086	1,706	1,372	2,838	--	5,554
Trade and industrial	--	--	--	--	--	--
Visual and performing arts	2,273	3,159	2,699	4,826	--	7,503
Other	--	--	--	--	--	--
Total	1,283	1,785	1,537	2,541	3,469	5,206

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. In the case of 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, 1991.

Table 8E

STATE-OWNED UNIVERSITIES
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
 1990-91

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's ³	First professional	Doctor's ⁴
Agriculture	\$1,585	\$463	\$1,477	\$1,398	--	--
Architecture and environmental design	1,847	3,183	2,381	6,365	--	--
Area and ethnic studies	1,650	2,332	1,960	6,033	--	--
Business	1,567	2,146	1,900	2,876	--	--
Communications	1,562	2,816	2,090	3,603	--	--
Computer and information sciences	1,796	3,626	2,088	2,776	--	--
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,648	2,748	2,245	2,358	--	--
Engineering	3,195	3,629	3,467	1,706	--	--
Foreign languages	2,132	4,207	2,456	3,157	--	--
Health	2,428	3,796	3,331	2,880	--	--
Home economics	1,646	2,727	2,105	4,882	--	--
Industrial arts	3,881	2,996	3,440	4,395	--	--
Law	1,822	1,394	1,661	1,906	--	--
Letters	1,831	2,841	1,984	4,074	--	--
Liberal/general studies	509	3,569	677	--	--	--
Library and archival sciences	2,450	2,951	2,750	2,353	--	--
Life sciences	1,763	5,304	2,272	7,619	--	--
Mathematics	1,721	3,255	1,893	5,004	--	--
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	1,726	2,939	2,132	1,664	--	--
Parks and recreation	1,667	2,723	2,137	4,444	--	--
Personal and social development	2,016	2,657	2,135	3,320	--	--
Philosophy, religion and theology	1,563	3,265	1,739	5,265	--	--
Physical sciences	2,227	8,031	2,784	8,740	--	--
Psychology	1,281	2,703	1,640	3,202	--	--
Public affairs and protective services	1,370	2,310	1,858	2,748	--	--
Social sciences	1,330	3,043	1,664	4,241	--	--
Trade and industrial	2,676	4,393	3,763	--	--	--
Visual and performing arts	1,896	5,226	2,459	9,649	--	--
Other	2,035	9,044	2,232	2,795	--	--
Total	1,692	3,005	2,083	3,053	--	--

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. In the case of 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 institutions, 1991.

Table 9

AVERAGE CLASS SIZES IN CLASSROOM INSTRUCTION BY ACADEMIC DIVISION AND LEVEL¹
 1990-91, CHANGE FROM 1989-90 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1985-86 to 1990-91)

Institution	Undergraduate											
	Lower division			Upper division			Total undergraduate			Master's		
	Class size	Percentage change		Class size	Percentage change		Class size	Percentage change		Class size	Percentage change	
One-year		Five-year average	One-year		Five-year average	One-year		Five-year average	One-year		Five-year average	
State-related												
Lincoln	22	5%	4%	13	0%	4%	19	0%	4%	16	7%	7%
Penn State	31	0	1	28	0	-1	30	0	0	14	-7	-1
Pittsburgh	30	-6	1	25	-4	2	28	-7	1	17	-6	1
Temple	26	-4	1	24	-4	3	25	-4	2	15	7	3
Total	30	0	1	26	0	0	28	-3	1	15	0	1
State-owned												
Bloomsburg	26	4	3	18	12	2	23	10	3	13	0	0
California	28	-7	-1	19	0	2	24	-4	0	11	0	4
Cheyney	21	5	6	15	36	10	19	12	7	19	36	34
Clarion	34	-6	1	16	0	-3	25	-7	-1	13	0	-1
East Stroudsburg	28	-3	0	17	6	1	24	0	0	23	15	11
Edinboro	27	4	2	16	7	-1	23	5	1	9	0	-4
Indiana	32	3	1	17	0	0	25	0	1	9	0	6
Kutztown	29	-3	0	16	0	3	23	-4	1	13	0	4
Lock Haven	28	0	1	12	-8	-7	20	-5	-3	a	a	a
Mansfield	28	-3	2	10	11	0	18	0	0	9	0	6
Millersville	23	-4	-2	14	8	2	19	0	-2	13	8	0
Shippensburg	28	-3	0	20	5	-1	25	0	-1	13	30	-1
Slippery Rock	30	3	1	16	14	1	25	4	2	18	20	13
West Chester	24	0	-1	16	0	1	20	-5	-1	12	9	4
Total	28	0	1	16	7	0	23	0	1	12	9	4
All institutions ²	29	0	1	21	0	0	25	-4	0	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 all institutions may not appear to reflect institutional group changes.
 a. The master's program is not included because of its very small size.

SOURCE: Reports provided by the individual institutions, 1986 to 1991.

Table 10

ACADEMIC YEAR TUITION AND REQUIRED FEES FOR FULL-TIME STUDENTS BY ACADEMIC LEVEL AND RESIDENCE
1990-91, CHANGE FROM 1989-90 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1985-86 to 1990-91)

Institution	Undergraduate						Graduate ¹					
	In-State			Out-of-State			In-State			Out-of-State		
	Tuition and required fees	Percentage change One-year	Five-year average	Tuition and required fees	Percentage change One-year	Five-year average	Tuition and required fees	Percentage change One-year	Five-year average	Tuition and required fees	Percentage change One-year	Five-year average
State-related												
Lincoln	\$2,510	5%	6%	\$3,730	7%	5%	\$3,500	8%	10%	\$5,200	7%	7%
Penn State ²	4,048	8	9	8,444	7	10	4,520	8	11	8,960	7	10
Pittsburgh ²	4,314	6	9	8,886	10	10	5,526	10	11	10,836	10	11
Temple	4,354	8	8	7,952	9	9	5,040	9	9	6,312	9	9
Average ²	3,807	7	8	7,253	8	9	4,647	9	10	7,827	8	10
State-owned												
Bloomsburg	2,518	5	9	4,552	7	10	2,408	5	9	3,014	9	13
California	2,648	4	8	4,682	6	10	2,648	4	10	3,254	10	13
Cheyney	2,488	4	8	4,522	7	10	2,383	3	7	2,989	10	11
Clarion	2,661	10	10	4,787	12	11	2,541	9	9	3,169	15	13
East Stroudsburg	2,642	10	10	4,676	10	11	2,502	8	9	3,108	13	13
Edinboro ²	2,590	6	8	4,624	8	9	2,572	6	8	3,178	11	11
Indiana ²	2,604	5	9	4,638	7	10	2,520	5	9	3,126	15	12
Kutztown	2,480	4	9	4,514	7	10	2,350	4	9	2,956	11	12
Lock Haven	2,468	5	8	4,502	7	10	a	a	a	a	a	a
Mansfield	2,587	6	9	4,621	7	10	2,452	6	9	3,058	12	13
Millersville	2,636	4	11	4,670	6	11	2,636	7	13	3,242	13	16
Shippensburg	2,694	10	10	4,728	10	11	2,588	11	10	3,194	16	13
Slippery Rock	2,554	2	8	4,588	5	10	2,554	2	8	3,160	8	11
West Chester	2,398	0	8	4,432	4	10	2,398	0	9	3,004	7	13
Average ²	2,569	5	9	4,610	7	10	2,501	5	9	3,109	11	13

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, 1985-86 to 1987-88 and Colleges and Universities-Basic Student Charges, 1988-89 to 1990-91.

Table 11

TUITION AND FEE REVENUES RELATED TO FULL-TIME EQUIVALENT STUDENTS¹
 1990-91, CHANGE FROM 1989-90 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1985-86 to 1990-91)

Institution	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
State-related							
Lincoln	\$4,818	10%	11%	\$3,280	\$130	4%	6%
Penn State	315,845	10	14	4,960	380	8	11
Pittsburgh	169,686	8	10	5,780	520	10	10
Temple	135,072	2	9	5,340	450	9	9
Total	625,421	8	12	5,220	420	9	10
State-owned							
Bloomsburg	18,751	6	14	2,580	80	3	9
California	15,279	3	17	2,460	100	4	9
Cheyney	4,776	11	15	3,210	200	7	12
Clarion	16,614	6	12	2,650	170	7	10
East Stroudsburg	16,470	8	18	3,060	160	6	10
Edinboro	20,887	14	23	2,770	200	8	11
Indiana	38,601	12	14	2,760	230	9	11
Kutztown	19,986	6	16	2,810	80	3	11
Lock Haven	9,592	16	19	2,740	130	5	9
Mansfield	9,062	6	16	2,950	130	5	12
Millersville	20,663	5	16	2,920	130	5	12
Shippensburg	16,508	8	11	2,740	170	7	10
Slippery Rock	20,447	12	17	2,750	190	7	10
West Chester	30,430	10	16	2,970	180	6	10
Total	258,066	9	16	2,790	160	6	10
All institutions	883,487	8	13	4,160	290	7	10

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

SOURCE: FTE students - reports provided by the individual institutions, 1986 to 1991;
 tuition and fee revenues - data provided by the individual State-related institutions and the
 State System of Higher Education, Commonwealth of Pennsylvania, 1986 to 1991.

Table 12

COMMONWEALTH APPROPRIATIONS FOR INSTRUCTION RELATED TO FULL-TIME EQUIVALENT STUDENTS
1990-91, CHANGE FROM 1989-90 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1985-86 to 1990-91)

Institution	Educational and general appropriations (000s)	Tuition Challenge Grants (000s)	Total instructional appropriations (000s)	Percentage change		Total instructional appropriations per FTE student			
				One- year	Five-year average	Amount	One-year change	Percentage change	
								One- year	Five-year average
State-related									
Lincoln	\$9,296	\$111	\$9,407	5%	12%	\$6,400	\$-50	-1%	8%
Penn State	183,129	8,271	191,400	7	10	3,010	170	6	7
Pittsburgh ¹	116,298	3,173	119,471	5	7	4,070	260	7	7
Temple	126,445	3,041	129,486	5	8	5,120	560	12	7
Total	435,158	14,596	449,754	6	8	3,760	250	7	7
State-owned									
Bloomsburg	25,980	274	26,254	1	6	3,610	-80	-2	3
California	22,317	249	22,566	4	8	3,630	180	5	2
Cheyney	12,481	35	12,516	a	2	8,420	-330	-4	a
Clarion	23,541	257	23,798	2	6	3,800	100	3	5
East Stroudsburg	18,951	139	19,090	2	6	3,550	-30	-1	a
Edinboro	24,153	266	24,419	4	5	3,240	-60	-2	-1
Indiana	46,858	560	47,418	1	5	3,390	-50	-1	3
Kutztown	24,840	254	25,094	2	8	3,520	-20	-1	4
Lock Haven	14,145	132	14,277	2	6	4,070	-340	-8	-1
Mansfield	13,841	106	13,947	a	5	4,540	-70	-2	2
Millersville	26,256	259	26,515	3	7	3,750	70	2	3
Shippensburg	22,749	244	22,993	a	6	3,820	-20	-1	4
Slippery Rock	25,967	271	26,238	3	7	3,530	-60	-2	3
West Chester	36,090	312	36,402	3	7	3,560	-20	-1	2
Total²	338,169	3,358	341,527	2	6	3,690	-20	-1	2
All institutions²	773,337	17,954	791,291	4	7	3,730	130	4	5

1. Includes appropriation for Titusville campus.

2. Excludes amount of appropriation allocated to Board of Governors/Chancellor's Office and System Reserve.

a. Rounds to less than 1 percent.

SOURCE: FTE students - reports provided by the individual institutions, 1986 to 1991; instructional appropriations - Governor's Executive Budget, 1987-88 to 1991-92 and data provided by the State System of Higher Education, Commonwealth of Pennsylvania, 1986 to 1991.

Table 13

TUITION AND FEE REVENUES,
COMMONWEALTH APPROPRIATIONS FOR INSTRUCTION AND STUDENT AID PER FULL-TIME EQUIVALENT STUDENT¹
1990-91, CHANGE FROM 1989-90 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1985-86 to 1990-91)

Institution	Per FTE student			Ratio of total instructional appropriations to total instructional revenues			Student aid per FTE student ²
	Tuition and fee revenues	Total instructional appropriations	Total instructional revenues	Percentage	Percentage change		
					One-year	Five-year average	
State-related							
Lincoln	\$3,280	\$6,400	\$9,680	56%	-1%	a	\$241
Penn State	4,960	3,010	7,970	38	0	-1%	303
Pittsburgh	5,780	4,070	9,850	41	-2	-1	312
Temple	5,340	5,120	10,460	49	2	a	251
Total	5,220	3,760	8,980	42	0	-1	296
State-owned							
Bloomsburg	2,580	3,610	6,190	58	-3	-2	236
California	2,460	3,630	6,090	60	2	-2	317
Cheyney	3,210	8,420	11,630	72	-3	-2	285
Clarion	2,650	3,800	6,450	59	-2	-1	305
East Stroudsburg	3,060	3,550	6,610	54	-2	-3	150
Edinboro	2,770	3,240	6,010	54	-4	-4	300
Indiana	2,760	3,390	6,150	55	-5	-3	329
Kutztown	2,810	3,520	6,330	56	0	-2	158
Lock Haven	2,740	4,070	6,810	60	-5	-3	285
Mansfield	2,950	4,540	7,490	61	-2	-2	298
Millersville	2,920	3,750	6,670	56	-2	-2	190
Shippensburg	2,740	3,820	6,560	58	-3	-2	187
Slippery Rock	2,750	3,530	6,280	56	-3	-2	286
West Chester	2,970	3,560	6,530	55	-2	-2	138
Total ³	2,790	3,690	6,480	57	-3	-2	245
All institutions ³	4,160	3,730	7,890	47	-2	-2	274

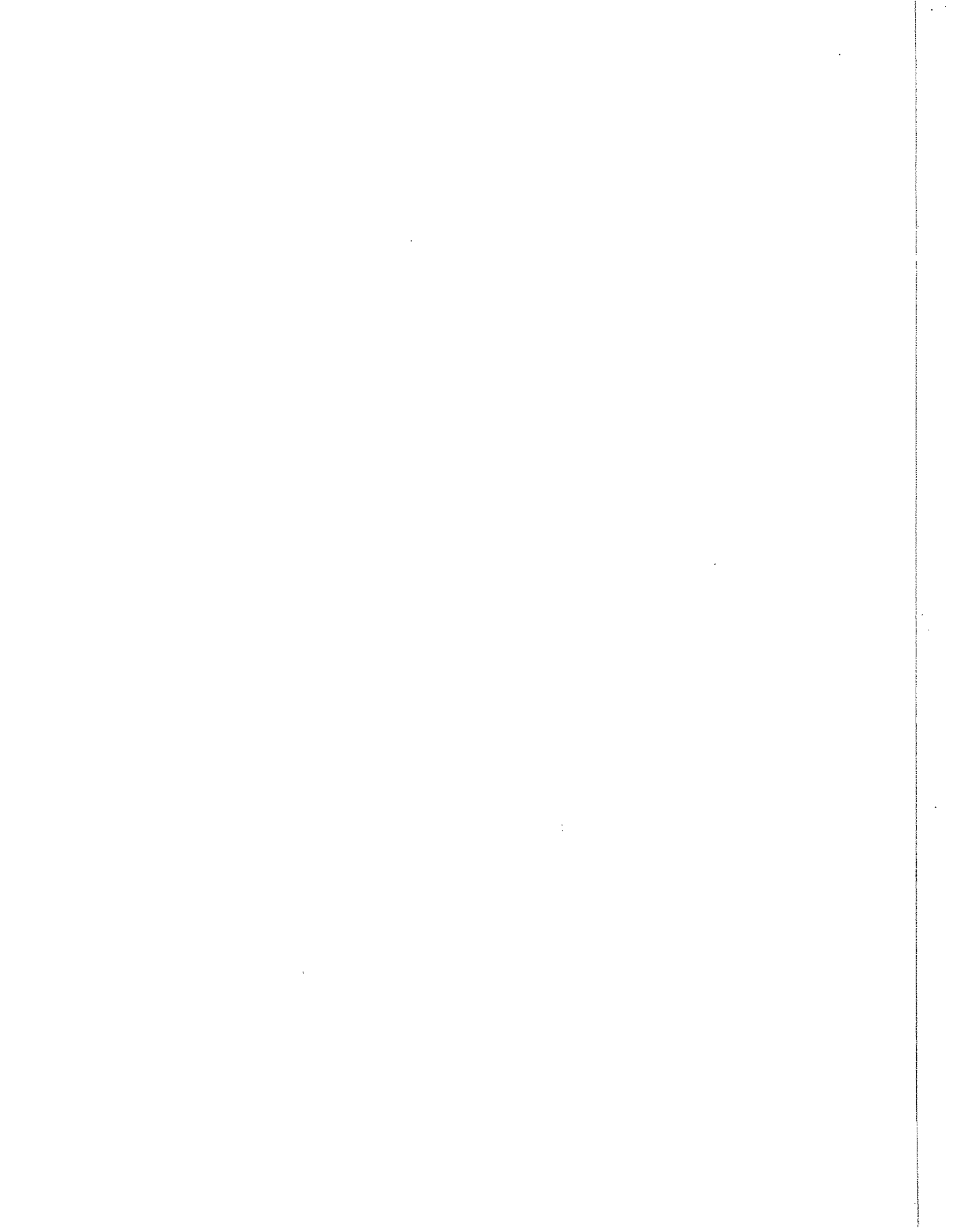
1. FTE students include in-State and out-of-State undergraduate and graduate students. Tuition and fees are based on revenues collected by the individual institutions. Commonwealth appropriations include educational and general appropriations and Tuition Challenge Grants.

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.

a. Rounds to less than 1 percent.

SOURCE: FTE students - reports provided by the individual institutions, 1986 to 1991; tuition and fee revenues - data provided by the individual State-related institutions and the State System of Higher Education, Commonwealth of Pennsylvania, 1986 to 1991; instructional appropriations - Governor's Executive Budget, 1987-88 to 1991-92, and data provided by the State System of Higher Education, Commonwealth of Pennsylvania, 1986 to 1991; student aid - data provided by the Pennsylvania Higher Education Assistance Agency, November 1991.



III. HISTORICAL DATA



Historical Table 1
FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC LEVEL¹
 1985-86 to 1990-91

Institution	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91
State-related						
Lincoln						
Total	1,259	1,321	1,303	1,317	1,394	1,469
Undergraduate	1,094	1,115	1,108	1,116	1,171	1,245
Graduate	165	206	195	201	223	224
Penn State						
Total	57,624	58,598	60,861	62,095	62,839	63,633
Undergraduate	52,438	53,266	55,177	56,271	56,641	57,223
Graduate	5,186	5,332	5,684	5,824	6,198	6,410
Pittsburgh						
Total	28,867	28,704	28,792	29,271	29,737	29,348
Undergraduate	21,292	21,189	21,302	21,814	22,107	21,873
Graduate	7,575	7,515	7,490	7,457	7,630	7,475
Temple						
Total	24,734	25,152	25,646	26,453	27,005	25,296
Undergraduate	18,832	19,486	19,933	20,614	20,898	19,143
Graduate	5,902	5,666	5,713	5,839	6,107	6,153
State-owned						
Bloomsburg						
Total	6,343	6,622	6,781	6,794	7,058	7,281
Undergraduate	5,979	6,238	6,381	6,400	6,631	6,839
Graduate	364	384	400	394	427	442
California						
Total	4,859	5,107	5,544	5,997	6,264	6,209
Undergraduate	4,490	4,723	5,083	5,509	5,673	5,630
Graduate	369	384	461	488	591	579
Cheyney						
Total	1,374	1,414	1,520	1,241	1,433	1,486
Undergraduate	1,308	1,325	1,402	1,081	1,204	1,240
Graduate	66	89	118	160	229	246
Clarion						
Total	5,833	5,857	5,958	6,284	6,312	6,260
Undergraduate	5,468	5,479	5,554	5,889	5,916	5,820
Graduate	365	378	404	395	396	440
East Stroudsburg						
Total	4,273	4,410	4,728	4,824	5,250	5,384
Undergraduate	3,878	3,895	4,183	4,344	4,634	4,760
Graduate	395	515	545	480	616	624
Edinboro						
Total	5,516	5,608	6,105	6,673	7,098	7,548
Undergraduate	5,196	5,294	5,757	6,279	6,695	7,118
Graduate	320	314	348	394	403	430
Indiana						
Total	12,730	13,026	13,173	13,165	13,698	13,976
Undergraduate	11,901	12,151	12,281	12,357	12,748	12,961
Graduate	829	875	892	808	950	1,015
Kutztown						
Total	5,989	6,068	6,334	6,532	6,913	7,123
Undergraduate	5,733	5,783	6,024	6,229	6,557	6,713
Graduate	256	285	310	303	356	410
Lock Haven						
Total	2,628	2,705	2,834	2,970	3,176	3,505
Undergraduate	2,628	2,705	2,834	2,970	3,176	3,505
Graduate	na	na	na	na	a	a
Mansfield						
Total	2,726	2,580	2,606	2,830	3,035	3,070
Undergraduate	2,568	2,444	2,460	2,645	2,838	2,887
Graduate	158	136	146	185	197	183
Millersville						
Total	6,220	6,438	6,589	6,914	7,030	7,072
Undergraduate	5,692	5,844	5,868	6,084	6,266	6,216
Graduate	528	594	721	830	764	856
Shippensburg						
Total	5,729	5,840	5,958	5,901	5,978	6,015
Undergraduate	5,224	5,354	5,459	5,419	5,513	5,543
Graduate	505	486	499	482	465	472
Slippery Rock						
Total	6,196	6,323	6,586	6,947	7,124	7,436
Undergraduate	5,921	6,038	6,306	6,598	6,648	6,831
Graduate	275	285	280	349	476	605
West Chester						
Total	8,535	9,013	9,910	9,583	9,889	10,237
Undergraduate	7,821	8,212	8,987	8,657	8,898	9,121
Graduate	714	801	923	926	991	1,116

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 institutions, 1986 to 1991.

Historical Table 2

STUDENT CREDIT HOURS BY ACADEMIC DIVISION AND LEVEL¹
 TOTAL YEAR AND SUMMER 1985-86 to 1990-91
 (in thousands)

Institution	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											
1985-86	26	7	33	4	na	na	4	37	2	a	2
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
Penn State											
1985-86	1,023	550	1,573	62	na	62	124	1,697	95	19	114
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
Pittsburgh											
1985-86	420	219	639	109	42	31	182	821	69	39	108
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
Temple											
1985-86	302	263	565	66	52	24	142	707	42	16	58
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
State-owned											
Bloomsburg											
1985-86	127	53	180	9	na	na	9	189	14	3	17
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
California											
1985-86	91	44	135	9	na	na	9	144	9	3	12
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
Cheyney											
1985-86	30	9	39	2	na	na	2	41	2	a	3
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
Clarion											
1985-86	119	45	164	9	na	na	9	173	10	2	12
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
East Stroudsburg											
1985-86	85	31	116	9	na	na	9	125	11	5	16
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	105	34	139	15	na	na	15	154	15	7	22
1990-91	105	38	143	15	na	na	15	158	16	6	22

Edinboro												
1985-86	112	44	156	8	na	na	8	164	10	2	12	
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	
Indiana												
1985-86	242	115	357	20	na	b	20	377	32	6	38	
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	
Kutztown												
1985-86	117	55	172	6	na	na	6	178	9	2	11	
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	
Lock Haven												
1985-86	56	23	79	na	na	na	na	79	3	na	3	
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	
Mansfield												
1985-86	55	22	77	4	na	na	4	81	6	1	7	
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	
Millersville												
1985-86	131	40	171	13	na	na	13	184	17	8	25	
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	
Shippensburg												
1985-86	115	42	157	12	na	na	12	169	10	4	14	
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	
Slippery Rock												
1985-86	134	43	177	7	na	na	7	184	11	2	13	
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	
West Chester												
1985-86	168	67	235	17	na	na	17	252	18	5	23	
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	

1. Data for each year represent the summer term preceding the academic year plus the academic year. The first professional and doctor's level excludes medical school data at all institutions.
2. Rounds to less than one thousand student credit hours.
3. 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 institutions, 1986 to 1991.

Historical Table 3
DEGREES CONFERRED¹
1985-86 to 1990-91

Institution	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91
State-related						
Lincoln						
Total	226	204	255	241	219	300
Bachelor's	157	136	156	166	134	208
Graduate	69	68	99	75	85	92
Penn State						
Total	9,963	9,627	9,565	9,951	10,623	11,205
Bachelor's	8,323	8,067	7,851	8,120	8,792	9,278
Graduate	1,640	1,560	1,714	1,831	1,831	1,927
Pittsburgh						
Total	6,219	6,292	6,269	6,223	6,417	6,337
Bachelor's	3,689	3,734	3,738	3,757	3,973	3,772
Graduate	2,530	2,558	2,531	2,466	2,444	2,565
Temple						
Total	4,837	4,820	4,972	5,324	5,295	5,402
Bachelor's	2,986	3,051	3,176	3,437	3,473	3,565
Graduate	1,851	1,769	1,796	1,887	1,822	1,839
State-owned						
Bloomsburg						
Total	1,250	1,247	1,330	1,235	1,380	1,432
Bachelor's	1,123	1,067	1,160	1,046	1,186	1,240
Graduate	127	180	170	189	194	192
California						
Total	835	870	913	949	1,050	1,132
Bachelor's	712	745	767	774	861	928
Graduate	123	125	146	175	189	204
Cheyney						
Total	261	203	195	144	187	211
Bachelor's	241	174	172	107	145	137
Graduate	20	29	23	37	42	74
Clarion						
Total	1,023	1,045	1,051	1,103	1,114	1,134
Bachelor's	898	908	894	955	924	952
Graduate	125	137	157	148	190	182
East Stroudsburg						
Total	843	792	756	820	902	974
Bachelor's	717	673	644	691	759	808
Graduate	126	119	112	129	143	166
Edinboro						
Total	897	914	945	1,043	1,016	1,118
Bachelor's	750	784	818	895	849	969
Graduate	147	130	127	148	167	149
Indiana						
Total	2,605	2,639	2,514	2,561	2,403	2,697
Bachelor's	2,281	2,277	2,118	2,182	1,921	2,285
Graduate	324	362	396	379	482	412
Kutztown						
Total	995	1,075	1,008	1,125	1,193	1,253
Bachelor's	874	963	908	1,001	1,076	1,071
Graduate	121	112	100	124	117	182
Lock Haven						
Total	467	446	468	462	479	533
Bachelor's	467	446	468	462	479	533
Graduate	na	na	na	na	a	a
Mansfield						
Total	486	462	441	494	507	496
Bachelor's	404	406	391	435	420	434
Graduate	82	56	50	59	87	62
Millersville						
Total	1,146	1,158	1,250	1,164	1,317	1,337
Bachelor's	1,024	1,032	1,126	1,045	1,170	1,167
Graduate	122	126	124	119	147	170
Shippensburg						
Total	1,340	1,366	1,517	1,447	1,252	1,408
Bachelor's	999	1,059	1,173	1,121	982	1,105
Graduate	341	307	344	326	270	303
Shippery Rock						
Total	995	1,184	1,171	1,185	1,210	1,234
Bachelor's	876	1,066	1,069	1,045	1,080	1,152
Graduate	119	118	102	140	130	82
West Chester						
Total	1,417	1,436	1,460	1,573	1,695	1,884
Bachelor's	1,183	1,211	1,251	1,319	1,427	1,526
Graduate	234	225	209	254	268	358

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

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

SOURCE: Reports provided by the individual institutions, 1986 to 1991.

Historical Table 4

AVERAGE WEEKLY STUDENT CONTACT HOURS OF FULL-TIME EMPLOYED FACULTY BY ACADEMIC LEVEL¹
1985-86 to 1990-91

Institution	Full-time employed faculty head count ²						Undergraduate average weekly student contact hours						Graduate average weekly student contact hours					
	1985-	1986-	1987-	1988-	1989-	1990-	1985-	1986-	1987-	1988-	1989-	1990-	1985-	1986-	1987-	1988-	1989-	1990-
	86	87	88	89	90	91	86	87	88	89	90	91	86	87	88	89	90	91
State-related																		
Lincoln	77	72	68	68	71	76	9.7	10.2	9.3	9.8	10.0	9.8	1.1	1.1	.8	1.4	.8	.6
Penn State	2,676	2,755	2,803	2,894	2,967	3,008	7.3	7.1	6.9	6.8	6.8	6.8	1.9	1.8	1.9	1.8	1.7	1.7
Pittsburgh	1,542	1,586	1,626	1,643	1,704	1,727	5.0	4.8	4.7	4.4	4.5	4.5	4.0	3.8	3.8	3.6	3.6	3.6
Temple	1,161	1,122	1,125	1,149	1,177	1,148	6.3	5.9	5.7	5.2	5.0	4.8	3.4	3.1	3.2	3.1	3.2	3.1
Total	5,456	5,535	5,622	5,754	5,919	5,959	6.4	6.2	6.1	5.8	5.8	5.8	2.8	2.6	2.7	2.6	2.5	2.5
State-owned																		
Bloomsburg	326	328	330	338	349	353	10.9	10.7	10.4	11.4	11.1	10.6	.6	.7	.8	.9	.7	.9
California	266	267	259	279	293	297	9.4	10.4	10.7	10.7	9.7	10.2	.8	1.0	1.0	1.3	1.1	1.3
Cheyney	114	146	118	99	112	88	9.8	10.2	10.8	11.0	11.4	10.9	.4	.7	1.0	.6	.9	1.0
Clarion	324	323	326	336	336	351	10.5	10.5	10.4	10.4	10.3	10.2	.5	.6	.6	.7	.7	.7
East Stroudsburg	223	239	241	243	251	254	10.2	10.4	10.1	10.0	10.6	10.4	.8	.8	.8	.9	.8	1.0
Edinboro	311	301	303	326	371	388	11.8	11.9	12.4	12.9	12.3	12.5	.8	.7	.7	.6	.7	.7
Indiana	661	676	691	689	680	698	11.0	10.7	10.6	10.2	10.5	10.5	1.1	1.1	1.2	1.1	1.1	1.3
Kutztown	309	321	305	347	347	380	11.7	11.8	11.7	12.6	11.7	11.2	.4	.4	.4	.5	.5	.7
Lock Haven	166	169	172	171	182	193	11.4	11.5	11.2	12.1	11.5	12.2	na	na	na	na	a	a
Mansfield	182	172	173	166	170	172	9.6	10.0	9.6	10.3	10.5	11.8	.6	.4	.3	.6	.6	.5
Millersville	294	297	314	308	313	328	10.9	10.8	11.1	10.8	11.5	11.1	.5	.5	.6	.6	.7	.6
Shippensburg	291	291	317	310	305	310	9.5	9.5	9.7	9.8	9.5	9.6	.9	1.0	1.0	.9	.9	.9
Slippery Rock	334	333	347	350	361	368	11.2	11.4	11.2	11.6	11.5	10.9	.6	.5	.6	.6	.7	.7
West Chester	474	431	414	445	440	433	10.7	10.4	10.4	10.7	10.2	10.2	1.1	1.2	1.3	1.4	1.7	1.6
Total	4,275	4,294	4,318	4,407	4,510	4,613	10.7	10.8	10.8	11.0	10.8	10.8	.7	.8	.8	.8	.9	.9
All institutions	9,731	9,829	9,940	10,161	10,429	10,572	8.3	8.2	8.0	8.0	7.9	7.9	1.9	1.8	1.9	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.
 - a. The graduate program is not included because of its very small size.
 - na. Not applicable.

SOURCE: Reports provided by the individual institutions, 1986 to 1991.

Historical Table 5

AVERAGE INSTRUCTIONAL SALARIES OF FULL-TIME EQUIVALENT INSTRUCTIONAL FACULTY BY RANK¹

1985-86 to 1990-91

(Dollars in thousands)

Institution	Number of FTE instructional faculty	Average instructional salaries					No rank ²
		All faculty	Professor	Associate professor	Assistant professor	Instructor	
State-related							
Lincoln							
1985-86	95	\$21.3	\$28.7	\$24.9	\$20.4	\$18.3	\$14.5
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
Penn State							
1985-86	3,146	27.2	44.3	33.7	26.5	18.2	19.7
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
Pittsburgh							
1985-86	1,783	28.0	41.8	30.0	23.9	15.6	23.6
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	1,731	33.7	51.9	37.2	28.9	18.1	25.8
1989-90	1,748	35.9	55.8	39.7	31.4	19.7	27.1
1990-91	1,739	37.7	58.5	41.6	32.9	21.0	28.6
Temple							
1985-86	1,563	27.2	39.0	31.0	25.0	14.1	14.5
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
State-owned							
Bloomsburg							
1985-86	339	30.1	37.7	30.9	25.1	20.1	na
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
California							
1985-86	260	31.7	37.2	30.9	25.2	17.7	29.7
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
Cheyney							
1985-86	136	34.7	40.7	33.7	26.3	23.8	24.6
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
Clarion							
1985-86	305	29.4	35.8	30.5	24.2	18.9	24.4
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
East Stroudsburg							
1985-86	246	29.3	34.6	28.3	24.1	15.2	na
1986-87	251	30.9	37.3	30.3	25.3	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
1990-91	285	39.1	47.4	38.6	30.8	27.0	na

Edinboro								
1985-86	319	32.1	36.9	30.7	25.6	20.8	31.4	
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	
Indiana								
1985-86	664	29.3	35.9	29.8	24.7	17.2	28.1	
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	
Kutztown								
1985-86	317	31.2	37.9	30.7	24.9	20.0	43.4	
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	
Lock Haven								
1985-86	151	33.0	39.1	31.4	25.7	20.6	19.6	
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	
Mansfield								
1985-86	165	29.7	37.8	30.7	24.2	17.1	na	
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	
Millersville								
1985-86	330	29.1	35.5	29.7	23.8	18.5	24.0	
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	
Shippensburg								
1985-86	292	32.2	38.3	31.1	25.4	19.6	42.1	
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	
Slippery Rock								
1985-86	326	30.4	36.9	29.5	24.4	22.6	29.0	
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	
West Chester								
1985-86	477	30.0	38.3	31.2	24.7	18.3	31.8	
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	

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 institutions, 1986 to 1991.

Historical Table 6

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT BY ACADEMIC DIVISION AND LEVEL¹
1985-86 to 1990-91

Institution	Lower division						Upper division						Total undergraduate						Master's					
	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91
State-related																								
Lincoln	\$1,359	\$1,532	\$1,266	\$1,360	\$1,554	\$1,496	\$2,519	\$2,839	\$2,497	\$2,609	\$2,844	\$3,025	\$1,589	\$1,794	\$1,513	\$1,612	\$1,809	\$1,852	\$1,720	\$1,815	\$1,614	\$1,571	\$1,579	\$1,160
Penn State	962	1,010	1,013	1,079	1,152	1,196	1,486	1,739	1,816	1,920	2,047	2,095	1,145	1,237	1,268	1,357	1,468	1,524	2,379	2,584	2,808	3,077	3,167	3,135
Pittsburgh	943	990	1,064	1,044	1,126	1,216	1,864	2,050	1,986	2,025	2,072	2,140	1,258	1,348	1,382	1,372	1,438	1,518	3,174	3,241	3,608	3,759	3,995	4,173
Temple	1,165	1,126	1,216	1,180	1,168	1,283	1,663	1,593	1,692	1,638	1,684	1,785	1,397	1,345	1,441	1,394	1,411	1,537	2,247	2,328	2,679	2,657	2,712	2,541
Total	998	1,033	1,062	1,092	1,154	1,218	1,617	1,773	1,823	1,870	1,961	2,032	1,227	1,290	1,331	1,371	1,454	1,529	2,693	2,793	3,102	3,232	3,352	3,370
State-owned																								
Bloomsburg	1,319	1,322	1,439	1,508	1,585	1,758	2,215	2,296	2,356	2,621	2,852	2,986	1,583	1,607	1,711	1,831	1,958	2,118	2,074	1,997	2,350	2,191	2,317	2,631
California	1,272	1,301	1,401	1,345	1,494	1,585	2,230	2,049	2,392	2,176	2,402	2,470	1,583	1,547	1,710	1,610	1,790	1,882	3,088	2,958	3,072	3,044	3,290	3,320
Cheyney	2,797	2,494	2,268	2,497	2,486	2,604	4,826	4,246	4,313	4,197	4,091	3,860	3,274	2,927	2,707	2,862	2,875	2,953	6,769	4,579	3,680	4,297	3,787	2,215
Clarion	1,232	1,360	1,363	1,450	1,571	1,742	2,181	2,397	2,573	2,896	3,273	3,391	1,491	1,635	1,699	1,848	2,041	2,224	2,243	1,911	2,514	2,748	2,881	3,126
East Stroudsburg	1,319	1,438	1,491	1,532	1,620	1,694	2,657	2,863	3,034	3,044	3,209	3,202	1,678	1,784	1,859	1,898	2,013	2,093	1,786	1,555	1,494	2,271	1,776	1,898
Edinboro	1,593	1,558	1,555	1,620	1,734	1,740	2,352	2,276	2,285	2,694	2,924	2,930	1,805	1,769	1,769	1,909	2,047	2,072	2,704	3,052	2,971	3,385	3,802	3,780
Indiana	1,084	1,149	1,188	1,303	1,361	1,453	1,997	2,163	2,327	2,549	2,716	2,834	1,378	1,482	1,558	1,700	1,787	1,877	3,664	3,772	4,278	4,084	3,971	4,150
Kutztown	1,169	1,240	1,305	1,415	1,476	1,536	2,604	2,880	3,096	3,041	3,093	3,228	1,624	1,756	1,853	1,929	2,001	2,098	2,375	2,272	2,476	2,640	2,793	2,924
Lock Haven	1,580	1,567	1,641	1,561	1,639	1,705	2,653	3,022	3,167	3,498	3,202	3,322	1,895	1,997	2,084	2,099	2,082	2,157	na	na	na	na	a	a
Mansfield	1,226	1,262	1,271	1,390	1,488	1,582	2,963	3,492	3,683	4,157	3,974	3,696	1,715	1,884	1,919	2,082	2,126	2,176	3,186	2,921	3,722	2,844	2,907	3,169
Millersville	1,216	1,287	1,406	1,432	1,599	1,722	2,493	2,600	2,795	2,749	2,779	2,934	1,517	1,616	1,764	1,804	1,941	2,075	1,833	2,054	2,182	1,956	2,026	2,387
Shippensburg	1,370	1,413	1,540	1,602	1,737	1,884	2,077	2,144	2,194	2,560	2,852	2,963	1,558	1,615	1,718	1,857	2,022	2,181	2,542	2,607	2,784	3,507	3,693	3,787
Slippery Rock	1,271	1,349	1,431	1,561	1,710	1,723	2,376	2,540	2,735	3,166	3,478	3,240	1,540	1,651	1,762	1,949	2,134	2,120	2,922	2,720	3,444	3,423	2,920	2,266
West Chester	1,288	1,324	1,328	1,612	1,783	1,825	2,333	2,122	2,061	2,461	2,594	2,708	1,587	1,556	1,544	1,874	2,049	2,118	2,688	2,548	2,630	3,001	3,262	3,270
Total	1,304	1,349	1,405	1,495	1,606	1,692	2,351	2,434	2,559	2,771	2,934	3,005	1,603	1,662	1,736	1,860	1,990	2,083	2,693	2,614	2,834	2,980	3,031	3,053
All institutions	1,142	1,179	1,223	1,283	1,373	1,452	1,895	2,036	2,114	2,223	2,343	2,421	1,393	1,455	1,512	1,589	1,697	1,785	2,693	2,730	3,005	3,141	3,232	3,247

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. In the case of 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 institutions, 1986 to 1991.

Historical Table 7

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER STUDENT CREDIT HOUR BY ACADEMIC DIVISION AND LEVEL¹
1985-86 to 1990-91

Institution	Lower division						Upper division						Total undergraduate						Master's					
	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91
State-related																								
Lincoln	\$45	\$51	\$42	\$45	\$52	\$50	\$84	\$94	\$83	\$87	\$95	\$101	\$53	\$60	\$50	\$54	\$60	\$62	\$72	\$76	\$67	\$66	\$66	\$48
Penn State	32	34	34	36	38	40	50	58	61	64	68	70	38	41	42	45	40	51	99	108	117	128	132	131
Pittsburgh	31	33	35	35	38	41	62	68	66	68	69	71	42	45	46	46	48	51	132	135	150	157	166	174
Temple	39	38	41	39	39	43	55	53	56	55	56	60	47	45	48	46	47	51	94	97	112	111	113	106
Total	33	34	35	36	38	41	54	59	61	62	65	68	41	43	44	46	48	51	112	116	129	135	140	140
State-owned																								
Bloomburg	44	44	48	50	53	59	74	77	79	87	95	100	53	54	57	61	65	71	86	83	98	91	97	110
California	42	43	47	45	50	53	74	68	80	73	80	82	53	52	57	54	60	63	129	123	128	127	137	138
Cheyney	93	83	76	83	83	87	161	142	144	140	136	129	109	98	90	95	96	98	282	191	153	180	158	92
Clarion	41	45	45	48	52	58	73	80	86	97	109	113	50	54	57	62	68	74	93	80	105	114	120	130
East Stroudsburg	44	48	50	51	54	56	89	95	101	101	107	107	56	59	62	63	67	70	74	65	62	95	74	79
Edinboro	53	52	52	54	58	58	78	76	76	90	97	98	60	59	59	64	68	69	112	127	124	141	158	156
Indiana	36	38	40	43	45	48	67	72	78	85	91	94	46	49	52	57	60	63	153	157	178	170	165	173
Kutztown	39	41	44	47	49	51	87	96	103	101	103	108	54	59	62	64	67	70	99	95	103	110	116	122
Lock Haven	53	52	55	52	55	57	88	101	106	117	107	111	63	67	69	70	69	72	na	na	na	na	a	a
Mansfield	41	42	42	46	50	53	99	116	123	139	132	123	57	63	64	69	71	72	132	122	155	119	121	132
Millersville	41	43	47	48	53	57	83	87	93	92	93	98	51	54	59	60	65	69	76	86	91	82	84	100
Shippensburg	46	47	51	53	58	63	69	71	73	85	95	99	52	54	57	62	67	73	106	109	116	146	154	158
Slippery Rock	42	45	48	52	57	57	79	85	91	106	116	108	51	55	59	65	71	71	122	113	144	143	122	95
West Chester	43	44	44	54	59	61	78	71	69	82	86	90	53	52	51	62	68	71	112	106	110	125	136	136
Total	43	45	47	50	54	56	78	81	85	92	98	100	53	55	58	62	66	69	112	109	118	124	126	127
All institutions	38	39	41	43	46	48	63	68	70	74	78	81	46	48	50	53	57	59	112	114	125	131	135	135

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. In the case of 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 institutions, 1986 to 1991.

Historical Table 8

AVERAGE CLASS SIZES IN CLASSROOM INSTRUCTION BY ACADEMIC DIVISION AND LEVEL¹
1985-86 to 1990-91

Institution	Lower division						Upper division						Total undergraduate						Master's					
	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91
State-related																								
Lincoln	18	19	21	21	21	22	11	11	11	12	13	13	16	16	18	18	19	19	12	12	13	14	15	16
Penn State	30	31	31	31	31	31	30	28	28	29	28	28	30	30	30	30	30	30	15	14	15	15	15	14
Pittsburgh	29	29	32	33	32	30	23	23	27	27	26	25	27	27	30	31	30	28	16	16	18	18	18	17
Temple	25	26	25	26	27	26	21	22	23	24	25	24	23	24	24	25	26	25	13	13	13	13	14	15
Total	29	29	30	30	30	30	26	25	26	27	26	26	27	28	28	29	29	28	14	15	15	15	15	15
State-owned																								
Bloomsburg	23	24	23	25	25	26	16	16	16	17	16	18	20	21	21	22	21	23	13	14	12	14	13	13
California	29	30	29	31	30	28	17	18	18	19	19	19	24	25	25	26	25	24	9	10	10	12	11	11
Cheyney	16	17	20	19	20	21	10	9	10	11	11	15	14	14	16	17	17	19	7	6	8	13	14	19
Clarion	33	33	35	36	36	34	19	17	17	17	16	16	27	26	27	28	27	25	14	16	13	13	13	13
East Stroudsburg	28	28	28	28	29	28	16	15	16	16	16	17	24	23	24	24	24	24	15	17	19	16	20	23
Edinboro	24	25	27	27	26	27	17	17	18	16	15	16	22	22	24	23	22	23	11	9	10	9	9	9
Indiana	30	31	31	31	31	32	17	18	17	17	17	17	24	25	25	25	25	25	7	7	7	8	9	9
Kutztown	29	28	30	29	30	29	14	14	14	16	16	16	22	22	23	23	24	23	11	12	13	14	13	13
Lock Haven	27	27	28	28	28	28	18	16	17	12	13	12	23	23	24	21	21	20	na	na	na	na	a	a
Mansfield	26	26	28	28	29	28	10	8	8	8	9	10	18	16	16	17	18	18	7	7	8	8	9	9
Millersville	26	26	25	25	24	23	13	13	13	13	13	14	21	21	20	20	19	19	13	11	12	13	12	13
Shippensburg	28	28	28	32	29	28	21	21	21	23	19	20	26	26	26	29	25	25	14	12	12	13	10	13
Slippery Rock	29	29	29	30	29	30	15	15	15	15	14	16	23	23	23	24	24	25	11	11	10	13	15	18
West Chester	25	25	25	24	24	24	15	16	17	16	16	16	21	22	22	21	21	20	10	10	10	10	11	12
Total	27	27	28	28	28	28	16	16	16	16	15	16	22	23	23	23	23	23	10	11	11	11	11	12
All institutions	28	28	29	29	29	29	21	20	21	21	21	21	25	25	26	26	26	25	13	13	13	13	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 institutions, 1986 to 1991.

Historical Table 9

COMMONWEALTH APPROPRIATIONS FOR INSTRUCTION¹
1985-86 to 1990-91
(in millions)

Institution	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91
State-related						
Lincoln ²	\$5.8	\$7.4	\$7.9	\$8.3	\$9.0	\$9.4
Penn State	128.3	136.0	142.8	150.6	178.6	191.4
Pittsburgh ³	88.6	93.9	98.6	104.0	113.4	119.5
Temple	93.9	102.1	107.2	113.1	123.3	129.5
Total	316.6	339.4	356.5	376.0	424.3	449.8
State-owned						
Bloomsburg	20.2	21.3	22.4	23.7	26.0	26.3
California	16.4	17.2	18.2	19.4	21.6	22.6
Cheyney	11.6	12.0	12.4	12.5	12.5	12.5
Clarion	18.0	19.3	20.6	21.7	23.3	23.8
East Stroudsburg	14.9	15.8	16.7	17.3	18.8	19.1
Edinboro	19.2	20.2	21.1	21.7	23.4	24.4
Indiana	37.8	39.8	41.9	43.8	47.1	47.4
Kutztown	17.9	19.3	20.7	22.1	24.5	25.1
Lock Haven	11.0	11.7	12.5	13.0	14.0	14.3
Mansfield	11.3	12.2	12.9	13.2	14.0	13.9
Millersville	20.0	21.2	22.3	23.6	25.8	26.5
Shippensburg	18.0	18.8	20.0	21.2	23.0	23.0
Slippery Rock	19.1	20.7	22.3	23.7	25.6	26.2
West Chester	27.0	28.4	29.9	31.9	35.4	36.4
Total⁴	262.4	277.9	293.9	308.8	335.0	341.5
All institutions⁴	579.0	617.3	650.4	684.8	759.3	791.3

1. For 1985-86 through 1988-89, 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 1985-86 appropriation for Human Services and 1986-87 and 1987-88 appropriation for desegregation.

3. Includes appropriation for Titusville campus.

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

SOURCE: Governor's Executive Budget, 1987-88 to 1991-92, data provided by the State System of Higher Education, Commonwealth of Pennsylvania, 1986 to 1991.

Historical Table 10

ACADEMIC YEAR TUITION AND REQUIRED FEES FOR FULL-TIME STUDENTS
BY ACADEMIC LEVEL AND RESIDENCE
1985-86 to 1990-91

Institution	Undergraduate		Graduate ¹	
	In-State	Out-of-State	In-State	Out-of-State
State-related				
Lincoln				
1985-86	\$1,930	\$2,930	\$2,300	\$3,800
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
Penn State				
Main Campus				
1985-86	2,760	5,544	2,942	5,880
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
Pittsburgh				
Main Campus ²				
1985-86	3,010	5,900	3,592	7,102
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
Temple ²				
1985-86	3,142	5,480	3,458	4,546
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
State-owned				
Bloomsburg				
1985-86	1,744	3,012	1,654	1,836
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
California				
1985-86	1,860	3,128	1,782	1,964
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
Cheyney				
1985-86	1,775	3,043	1,755	1,937
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
Clarion				
1985-86	1,792	3,060	1,741	1,923
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
East Stroudsburg				
1985-86	1,790	3,058	1,730	1,912
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	2,642	4,676	2,502	3,108

Edinboro					
1985-86	1,870	3,138	1,858	2,040	
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	
Indiana					
Main Campus					
1985-86	1,824	3,096	1,748	1,930	
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	
Kutztown					
1985-86	1,738	3,006	1,648	1,830	
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	
Lock Haven					
1985-86	1,765	3,033	na	na	
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	
Mansfield					
1985-86	1,785	3,053	1,680	1,862	
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	
Millersville					
1985-86	1,726	2,994	1,620	1,802	
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	
Shippensburg					
1985-86	1,822	3,090	1,730	1,912	
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	
Slippery Rock					
1985-86	1,838	3,106	1,838	2,020	
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	
West Chester					
1985-86	1,731	2,999	1,655	1,837	
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	

1. Excludes first-professional level.
2. Average cost for most programs; fees vary with program.
 - 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, 1985-86 to 1987-88 and Colleges and Universities - Basic Student Charges, 1988-89 to 1990-91.



APPENDIX: MODEL OF FTE SALARY COST DETERMINATION

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

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

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).

