

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

Analysis of 1998-99 Data
Reported Under 1998 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
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The cover displays the reverse of the State Seal of the Commonwealth of Pennsylvania. The reverse of this seal shows a woman, who represents liberty. Her left hand holds a wand topped by a liberty cap, a French symbol of liberty. In her right hand is drawn sword. She is trampling upon Tyranny, represented by a lion. The entire design is encircled by the legend "Both Can't Survive."

The release of this report should not be construed as an indication that the members of the Executive Committee of the Joint State Government Commission endorse all of the report's findings, recommendations or conclusions.

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STATE-RELATED AND STATE-OWNED UNIVERSITIES
AND BRANCH CAMPUSES
(WITH COUNTIES)

State-Related Universities

Lincoln (Chester)

Penn State University Park (Centre)
Commonwealth College
Beaver (Beaver)
Delaware (Delaware)
DuBois (Clearfield)
Fayette (Fayette)
Hazleton (Luzerne)
Mont Alto (Franklin)
McKeesport (Allegheny)
New Kensington (Westmoreland)
Shenango (Mercer)
Wilkes-Barre (Luzerne)
Worthington Scranton (Lackawanna)
York (York)

Other Colleges
Abington (Montgomery)
Altoona (Blair)
Berks (Berks)
Erie (Erie)
Great Valley (Chester)
Harrisburg (Dauphin)
Lehigh Valley (Lehigh)
Schuylkill (Schuylkill)
Milton S. Hershey Medical Center (Dauphin)*
Pennsylvania College of Technology (Lycoming)**

Pittsburgh (Allegheny)*
Bradford Campus (McKean)
Greensburg Campus (Westmoreland)
Johnstown Campus (Cambria)
Titusville Campus (Crawford)

Temple (Philadelphia)*
Ambler Campus (Montgomery)
Harrisburg Center (Dauphin)

State-Owned Universities

Bloomsburg (Columbia)

California (Washington)

Cheyney (Delaware)

Clarion (Clarion)
Venango Campus (Venango)

East Stroudsburg (Monroe)

Edinboro (Erie)

Indiana (Indiana)
Armstrong Campus (Armstrong)
Punxsutawney Campus (Jefferson)

Kutztown (Berks)

Lock Haven (Clinton)
Clearfield Campus (Clearfield)

Mansfield (Tioga)

Millersville (Lancaster)

Shippensburg (Cumberland)

Slippery Rock (Butler)

West Chester (Chester)

*Medical School data not included in this report.
**Not included in this report.

FOREWORD

This 27th annual report summarizes the instructional outputs, instructional faculty salary costs, tuitions and Commonwealth instructional appropriations for Pennsylvania's State-related and State-owned universities--the Commonwealth's public universities.

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

Levels of data for 1998-99 and data trends for 1993-94 to 1998-99 are presented. ***Readers are cautioned to use the current historical tables for prior years' data, as some previous data have been revised in these tables.***

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 instructional appropriation data are combined for the computation of a measure of cost sharing: the percentage of total instructional revenues covered by instructional appropriations.

This report is 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.



CONTENTS

STATE-RELATED AND STATE-OWNED UNIVERSITIES AND BRANCH CAMPUSES (WITH COUNTIES).....	iv
FOREWORD	v
I. DATA HIGHLIGHTS.....	1
II. CURRENT-YEAR DATA	
TABLES	
1. Full-Time Equivalent Students by Academic Level	9
2. Full-Time Equivalent Students by Academic Division and Level	10
3A. Lincoln University - Number and Percentage Distribution of Full-Time Equivalent Students	11
3B. Pennsylvania State University - Number and Percentage Distribution of Full-Time Equivalent Students	12
3C. University of Pittsburgh - Number and Percentage Distribution of Full-Time Equivalent Students	13
3D. Temple University - Number and Percentage Distribution of Full-Time Equivalent Students	14

3E.	State-Owned Universities - Number and Percentage Distribution of Full-Time Equivalent Students	15
4.	Degrees Conferred	16
5.	Number and Workweeks of Full-Time Employed Faculty by Type of Activity.....	17
6.	Number and Average Instructional Salaries of Full-Time Equivalent Instructional Faculty and Percentage Distribution by Rank	18
7.	Average Instructional Faculty Salary Cost Per Full-Time Equivalent Student by Academic Division and Level.....	19
8A.	Lincoln University - Average Instructional Faculty Salary Cost per Full-Time Equivalent Student.....	20
8B.	Pennsylvania State University - Average Instructional Faculty Salary Cost per Full-Time Equivalent Student.....	21
8C.	University of Pittsburgh - Average Instructional Faculty Salary Cost per Full-Time Equivalent Student.....	22
8D.	Temple University - Average Instructional Faculty Salary Cost per Full-Time Equivalent Student.....	23
8E.	State-Owned Universities - Average Instructional Faculty Salary Cost per Full-Time Equivalent Student.....	24
9.	Average Class Sizes in Classroom Instruction by Academic Division and Level.....	25
10.	Academic Year Tuition and Required Fees for Full-Time Students by Academic Level and Residence	26
11.	Tuition and Fee Revenues Related to Full-Time Equivalent Students	27

12.	Commonwealth Instructional Appropriations Related to Full-Time Equivalent Students	28
13.	Tuition and Fee Revenues, Commonwealth Instructional Appropriations and Student Aid Related to Full-Time Equivalent Students	29

III. HISTORICAL DATA

TABLES

1.	Full-Time Equivalent Students by Academic Level.....	33
2.	Student Credit Hours by Academic Division and Level	34
3.	Degrees Conferred	36
4.	Number and Average Weekly Student Contact Hours of Full-Time Employed Faculty by Academic Level.....	37
5.	Number and Average Instructional Salaries of Full-Time Equivalent Instructional Faculty by Rank.....	38
6.	Average Instructional Faculty Salary Cost Per Full-Time Equivalent Student by Academic Division and Level	40
7.	Average Instructional Faculty Salary Cost Per Student Credit Hour by Academic Division and Level	41
8.	Average Class Sizes in Classroom Instruction by Academic Division and Level.....	42
9.	Commonwealth Instructional Appropriations	43
10.	Academic Year Tuition and Required Fees for Full-Time Students.....	44

APPENDIX: MODEL OF FTE SALARY COST

DETERMINATION	47
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I. DATA HIGHLIGHTS

1. In Fall 1998, a total of 579,476 full- and part-time students were enrolled in the 142 public and private colleges and universities in Pennsylvania. Of this total, 232,518 students (40 percent) were enrolled in the Commonwealth's public universities: 137,467 students (24 percent) in the 4 State-related universities, and 95,051 (16 percent) in the 14 State-owned universities. The main and branch campuses of Pennsylvania's public universities are listed on page iv. Compared to Fall 1997, overall student enrollments in all of Pennsylvania's colleges and universities, including the Commonwealth's public universities, increased by 1 percent.¹
2. During the 1998-99 school year,² 6.2 million undergraduate and graduate student credit hours (SCH) were generated by the public universities. These SCH were equivalent to 211,698 full-time students: 123,644 full-time equivalent (FTE) students (58 percent) for the State-related universities, and 88,054 (42 percent) for the State-owned universities.³ (Table 1) FTE students at the State-related universities increased by 2 percent, and at the State-owned universities by 1 percent from the previous year. At Lincoln, Pittsburgh and Temple, about three-quarters of the FTE students are undergraduates. In contrast, the proportion of undergraduate FTE students is 91 percent for both Penn State and the State-owned group.⁴ (Table 2) The public universities also offer diverse programs to students. Most of these universities continue to have large programs in business, letters and the social sciences. The State-owned

¹Pennsylvania Department of Education, *Colleges and Universities Education Digest, 1998-99*.

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 1998-99 school year includes the summer and fall terms of 1998 plus the spring term of 1999.

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

⁴In 1996-97, Slippery Rock reported data for the first-professional level; previous data for this level were combined with the master's level. In 1997-98, the level of these data were changed to the doctor's level; the data have been reported at this level since then. For 1998-99, Cheyney University did not report data in Classification of Instruction Program (CIP) detail or by assigned credits. All comparison of current year data to data from prior years must take these changes into account.

universities each have specialized program missions. (Tables 3A through 3E)⁵

3. During the 1998-99 school year, the public universities conferred 42,471 bachelor's and graduate degrees (*not including medical degrees*): 24,969 degrees (59 percent) by the State-related universities, and 17,502 (41 percent) by the State-owned universities. This represents a 4 percent increase for the State-related group, and a 1 percent increase for the State-owned group, from the preceding year.⁶ (Table 4)
4. Over the past five years (since 1993-94), Pennsylvania's population of 18- to 24-year-olds has decreased by 12 percent, while FTE enrollments in the Commonwealth's public universities have increased slightly. The nondecrease in total FTE enrollments in the public universities would appear to be attributable to an increase in the proportion of traditional students, plus an increase in the number of nontraditional students, attending these universities.
5. In Fall 1998, 10,630 teaching and research faculty were *employed full-time* by Pennsylvania's public universities: 5,996 full-time faculty (56 percent) by the State-related universities and 4,634 (44 percent) by the State-owned universities.⁷ The overall workweek reported by these faculty averaged 54.0 hours: 52.5 total hours for the State-related universities, and 55.9 total hours for the State-owned universities. Hours spent in undergraduate and graduate classroom and individual instruction contact with students averaged 8.4 per week for the State-related group, and 11.7 per week for the State-owned group. (Table 5) Since 1993-94, average total workweek hours for the State-related universities increased by 1 percent but average student contact hours decreased by 1 percent; over

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, and revised in 1985 and 1990; currently a revised version of this taxonomy is under review for public comment, the *CIP - 2000*. This report utilizes an aggregation of two-digit CIP, each of which corresponds to one or more academic departments or program areas within individual universities. The CIP groupings are used to facilitate comparisons in this report, given the large array of departments and programs which exist in the Commonwealth's public universities.

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

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.

the same years, the average total workweek and student contact hours at the State-owned universities remained nearly constant.

6. During the 1998-99 school year, the *full- and part-time instructional faculty employed* by the public universities were the equivalent of 12,023 full-time faculty: 7,090 FTE instructional faculty (59 percent) for the State-related universities, and 4,933 (41 percent) for the State-owned universities.⁸ The combined FTE instructional faculty increased by 1 percent from the previous year. The instructional salary for these faculty averaged \$48,500 and \$54,300 for the two public university groups, respectively.⁹ The average instructional salary for both the State-related and State-owned universities increased by 2 percent from the previous year.¹⁰ The State-owned universities tend to utilize relatively more higher-ranked FTE faculty--professors and associate professors--in instruction than do the larger State-related universities. In contrast, Penn State, Pittsburgh and Temple provide a significant amount of instruction using nonranked faculty (largely graduate teaching assistants). The greater use of nonranked faculty tend to lower the average instructional salary for the State-related group relative to the State-owned group. (Table 6)

7. Since 1993-94, the average instructional salary for the FTE instructional faculty has increased about \$6,600 for the State-related universities and about \$4,400 for the State-owned universities. This represents a 16 percent increase for the State-related group, and a 9 percent increase for the State-owned group.

8. During the 1998-99 school year, the ratio of FTE students to FTE instructional faculty averaged 17.4 for the State-related universities, and 17.8 for the State-owned universities; both ratios remained largely unchanged from the previous year. (Tables 1 and 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.

⁹This report does not include the noninstructional salaries of instructional faculty members. Therefore, *average faculty salaries cannot be compared to those reported in other places.*

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

9. During the 1998-99 school year, the average instructional faculty salary costs per FTE student for the State-related group were: \$2,157 for the undergraduate level, and \$4,563 for the master's level. For the State-owned group the FTE instructional salary costs for these levels were \$2,914 and \$4,156, respectively. (Table 7) First professional FTE instructional salary costs averaged \$1,667 for Pittsburgh and \$3,161 for Temple; doctoral FTE instructional salary costs averaged \$13,113 for Penn State, \$12,063 for Pittsburgh, \$8,930 for Temple and \$3,695 for the State-owned universities. Since 1993-94, undergraduate FTE instructional salary costs have increased by 14 percent for the State-related group, and by 10 percent for the State-owned group. FTE instructional salary costs also vary considerably by program area. (Table 8A through 8E)
10. The model of FTE salary cost determination in the Appendix indicates that FTE instructional salary costs vary directly with FTE instructional faculty salaries, and inversely with both average class (section) sizes and the number of classes (sections) offered per course. Regression analysis based on this model and applied to 1998-99 lower and upper division undergraduate FTE instructional salary cost, class size and instructional faculty salary data for the public universities shows that the total annual cost savings to be expected from *decreasing* average FTE instructional faculty salaries by \$1,000 at these universities would be almost \$10 million, and from *increasing* average class (section) sizes by one student about \$18.5 million.¹¹
11. The average undergraduate class (section) size is 18 for Lincoln, 29 for Penn State, 28 for Pittsburgh, 24 for Temple, and 23 for the State-owned universities. Since 1993-94, average undergraduate class sizes remained constant at the State-related universities, but increased by 5 percent at the State-owned universities. (Table 9)
12. During the 1998-99 school year, the tuition and required fees for full-time in-State undergraduate students averaged \$5,872 for the State-related universities, and \$4,302 for the State-owned universities. These tuition and fees increased by 4 percent from the previous year for the State-related universities and 1 percent for the State-owned universities. Lincoln's tuition and fees for nonresidents exceeded those for residents by 57 percent for full-time undergraduate students, and by 64 percent for full-time graduate students. Penn State's tuition and fees for nonresident full-

¹¹The regression data and equation are not included in this report; these are available from the staff of the Joint State Government Commission. The model on which the regression equation is based is given in the Appendix.

time undergraduates were 112 percent higher, and those for graduate students 102 percent higher than the tuition and fees for residents. Pittsburgh's nonresident tuition and fees for full-time undergraduate were 109 percent higher, and those for graduate students double those for residents. For Temple, the out-of-state premium was almost 79 percent for full-time undergraduates and 36 percent for full-time graduate students. For the State-owned group, tuition and fees for nonresident undergraduates exceeded those for residents by 120 percent; nonresident graduate students paid 67 percent more than Pennsylvania residents. (Table 10)

13. For fiscal year 1998-99, the public universities collected \$1.4 billion in tuition and fee revenues. FTE student revenues averaged \$6,520 for Lincoln, \$7,220 for Penn State, \$8,700 for Pittsburgh, \$8,420 for Temple, and \$4,590 for the State-owned group. Since 1993-94, FTE student revenues have increased by 28 percent for the State-related universities and 16 percent for the State-owned universities. (Table 11)

14. For fiscal year 1998-99, the Commonwealth's instructional appropriations to the public universities totaled \$947.6 million: \$528.7 million (56 percent) to the State-related universities and \$418.9 million (44 percent) to the State-owned universities.¹² ¹³ These appropriations represent 85 percent of the total appropriations made specifically for instruction to the public universities *and community colleges*, and 72 percent of the total appropriations made for all purposes to all public and private colleges and universities in the Commonwealth. The average instructional appropriation per FTE student was \$4,280 for the State-related group and \$4,760 for the State-owned group. (Table 12) In addition to the instructional appropriations made directly to the public universities, monies appropriated from the General Fund to the Pennsylvania Higher Education Assistance Agency totaling \$124 million went to students at the public universities through various PHEAA grant and matching-fund programs.¹⁴

15. For 1998-99 total instructional revenues per FTE student--tuition and fees plus the Commonwealth's instructional appropriations--averaged \$12,070

¹²The Commonwealth instructional appropriation to the State System of Higher Education does *not* include amounts allocated to the Office of the Chancellor and the System Reserve.

¹³In this report, total educational and general appropriations and Tuition Challenge Grants are regarded as "instructional" and used for comparisons. Over the years, educational and general appropriations have been expanded to include expenditure categories which previously were separate line items in General Fund Budgets.

¹⁴Data provided by the Pennsylvania Higher Education Assistance Agency.

for the State-related universities and \$9,350 for the State-owned universities. (Table 13) Per student instructional revenues for the State-related universities were more than those for the State-owned universities, even though per student undergraduate instructional faculty salary costs for the State-related group were less than those for the State-owned group. (Table 7) The analysis of *total* instructional costs is beyond the scope of this report.

16. During the 1998-99 school year, on an FTE student basis, the ratio of Commonwealth instructional appropriations to tuition and fee revenues *plus* Commonwealth instructional appropriations averaged 35 percent for the State-related university group, and 51 percent for the State-owned university group. (Table 13) Since 1993-94, average FTE student tuition and fee revenues collected by the public universities have increased, on a percentage basis, more than twice as much as the average direct FTE student appropriations from the Commonwealth to these institutions. Hence, the share of total instructional revenues from Commonwealth appropriations has *decreased*, causing the student share of instructional cost to *increase* for all of the public universities.

II. CURRENT YEAR DATA

Table 1

FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC LEVEL¹
 1998-99, CHANGE FROM 1997-98 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1993-94 to 1998-99)

University	Total				Undergraduate				Graduate ²			
	FTE students	One-year change	One-year Percentage change	Five-year average	FTE students	One-year change	One-year Percentage change	Five-year average	FTE students	One-year change	One-year Percentage change	Five-year average
State-related												
Lincoln	2,075	11	1%	8%	1,599	-42	-3%	5%	476	53	13%	23%
Penn State	69,061	1,605	2	3	62,808	1,698	3	3	6,253	-93	-1	a
Pittsburgh	29,222	733	3	a	21,336	879	4	a	7,886	-146	-2	a
Temple	23,286	297	1	-2	16,326	-317	-2	-2	6,960	614	10	a
Total	123,644	2,646	2	1	102,069	2,218	2	1	21,575	428	2	a
State-owned												
Bloomsburg	7,322	-16	a	a	6,851	-51	-1	a	471	35	8	5
California	5,439	17	a	-1	4,646	-8	a	-2	793	25	3	1
Cheyney	1,293	-20	-2	-2	969	-56	-5	-4	324	36	13	11
Clarion	5,680	-15	a	a	5,425	9	a	a	255	-24	-9	-4
East Stroudsburg	5,608	94	2	1	4,912	55	1	1	696	39	6	1
Edinboro	6,541	16	a	-2	6,138	6	a	-2	403	10	3	1
Indiana	12,997	43	a	a	11,851	46	a	-1	1,146	-3	a	3
Kutztown	6,933	41	1	a	6,489	28	a	a	444	13	3	3
Lock Haven	3,590	187	5	a	3,472	172	5	a	118	15	15	242
Mansfield	2,663	-94	-3	-3	2,556	-64	-2	-2	107	-30	-22	-8
Millersville	6,877	-67	-1	1	6,042	-88	-1	1	835	21	3	1
Shippensburg	6,110	21	a	a	5,580	19	a	a	530	2	a	1
Slippery Rock	6,584	-83	-1	-2	5,946	-120	-2	-2	638	37	6	1
West Chester	10,417	362	4	1	9,420	399	4	2	997	-37	-4	a
Total	88,054	486	1	a	80,297	347	a	a	7,757	139	2	2
All universities	211,698	3,132	2	1	182,366	2,565	1	1	29,332	567	2	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. In addition to master's level, graduate for Penn State, Pittsburgh, Temple, Indiana and Slippery Rock includes first-professional (excluding medical schools) and/or doctor's levels.

a. Rounds to less than 1 percent.

SOURCE: Data provided by the individual universities, 1994 to 1999.

Table 2

FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC DIVISION AND LEVEL¹
 1998-99, CHANGE FROM 1997-98 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1993-94 to 1998-99)

University	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	1,229	-4%	6%	370	2%	2%	476	13%	23%	na	na	na
Penn State	38,859	1	3	23,949	7	3	3,218	-9	-1	3,035	9%	1%
Pittsburgh	14,637	4	1	6,699	4	-1	4,972	-5	-2	2,914	5	3
Temple	7,167	-4	-4	9,159	-1	-1	3,399	-2	-2	3,561	23	2
Total	61,892	1	1	40,177	5	1	12,065	-5	-1	9,510	12	2
State-owned												
Bloomsburg	4,842	-1	1	2,009	1	-1	471	8	5	na	na	na
California	3,179	a	-2	1,467	-1	-1	793	3	1	na	na	na
Cheyney	659	-10	-5	310	5	-1	324	13	11	na	na	na
Clarion	3,951	1	1	1,474	-3	-2	255	-9	-4	na	na	na
East Stroudsburg	3,433	a	1	1,479	4	1	696	6	1	na	na	na
Edinboro	4,029	a	-3	2,109	a	a	403	3	1	na	na	na
Indiana	8,123	a	a	3,728	1	-2	884	1	2	262	-4	4
Kutztown	4,262	a	a	2,227	1	-1	444	3	3	na	na	na
Lock Haven	2,320	2	-1	1,152	13	2	118	15	242	na	na	na
Mansfield	1,561	-3	-3	995	-2	-1	107	-22	-8	na	na	na
Millersville	3,862	a	a	2,180	-4	3	835	3	1	na	na	na
Shippensburg	3,915	-1	a	1,665	4	2	530	a	1	na	na	na
Slippery Rock	4,186	-1	-2	1,760	-3	-2	382	6	b	256	6	b
West Chester	6,412	5	3	3,008	4	-1	997	-4	a	na	na	na
Total	54,734	a	a	25,563	1	-1	7,239	2	1	518	1	27
All universities	116,626	a	1	65,740	3	1	19,304	-2	a	10,028	12	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. Excludes medical school data.

a. Rounds to less than 1 percent.

b. The master's level includes the doctor's level prior to 1996-97.

na. Not applicable.

SOURCE: Data provided by the individual universities, 1994 to 1999.

Table 3A

LINCOLN UNIVERSITY
NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS¹
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
1998-99

CIP Classification	Total	Percentage of total	Undergraduate				Graduate ²	Percentage of total
			Lower division	Percentage of total	Upper division	Percentage of total		
Agriculture	--	--	--	--	--	--	--	--
Architecture and environmental design	--	--	--	--	--	--	--	--
Area and ethnic studies	--	--	--	--	--	--	--	--
Business	151	7%	58	5%	65	17%	28	6%
Communications	--	--	--	--	--	--	--	--
Computer and information sciences	34	2	27	2	7	2	--	--
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	376	18	277	23	66	18	33	7
Engineering	--	--	--	--	--	--	--	--
Foreign languages	75	4	69	6	6	2	--	--
Health	--	--	--	--	--	--	--	--
Home economics	--	--	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--	--	--
Law	--	--	--	--	--	--	--	--
Letters	219	10	202	16	17	5	--	--
Liberal/general studies	--	--	--	--	--	--	--	--
Library and archival sciences	--	--	--	--	--	--	--	--
Life sciences	137	7	114	9	23	6	--	--
Mathematics	143	7	137	11	6	2	--	--
Military sciences	--	--	--	--	--	--	--	--
Multi/interdisciplinary studies	6	a	4	a	2	a	--	--
Parks and recreation	--	--	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--	--	--
Philosophy, religion and theology	79	4	65	5	14	4	--	--
Physical sciences	118	6	83	7	35	9	--	--
Psychology	74	3	55	5	19	5	--	--
Public affairs and protective services	396	19	--	--	--	--	396	83
Social sciences	267	13	137	11	111	30	19	4
Trade and industrial	--	--	--	--	--	--	--	--
Visual and performing arts	--	--	--	--	--	--	--	--
Other	--	--	--	--	--	--	--	--
Total ³	2,075	100	1,229	100	370	100	476	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. Graduate includes master's level only.

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

a. Rounds to less than 1 percent.

SOURCE: Data provided by Lincoln University, 1999; CIP classifications - U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs*, 1991.

Table 3B

PENNSYLVANIA STATE UNIVERSITY
NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS¹
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
1998-99

CIP Classification	Total	Percentage of total	Undergraduate				Graduate ²	Percentage of total
			Lower division	Percentage of total	Upper division	Percentage of total		
Agriculture	1,178	2%	185	a	875	4%	118	2%
Architecture and environmental design	521	1	317	1%	187	1	17	a
Area and ethnic studies	789	1	450	1	310	1	29	a
Business	8,043	12	2,588	7	4,458	19	997	16
Communications	1,229	2	430	1	758	3	41	1
Computer and information sciences	1,951	3	1,371	4	392	2	188	3
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	3,621	5	736	2	1,364	6	1,521	24
Engineering	4,809	7	1,126	3	2,849	12	834	13
Foreign languages	2,490	4	1,847	5	538	2	105	2
Health	2,011	3	731	2	1,067	4	213	3
Home economics	1,973	3	1,022	3	854	4	97	2
Industrial arts	--	--	--	--	--	--	--	--
Law	--	--	--	--	--	--	--	--
Letters	6,531	9	4,446	11	1,792	8	293	5
Liberal/general studies	128	a	14	a	106	a	8	a
Library and archival sciences	14	a	12	a	2	a	--	--
Life sciences	3,462	5	2,415	6	805	3	242	4
Mathematics	6,155	9	5,410	14	579	2	166	3
Military sciences	99	a	58	a	41	a	--	--
Multi/interdisciplinary studies	2,585	4	818	2	1,646	7	121	2
Parks and recreation	393	1	46	a	326	1	21	a
Personal and social development	--	--	--	--	--	--	--	--
Philosophy, religion and theology	1,326	2	1,121	3	159	1	46	1
Physical sciences	5,290	8	4,026	10	815	3	449	7
Psychology	2,306	3	1,324	3	767	3	215	3
Public affairs and protective services	948	1	232	1	635	3	81	1
Social sciences	7,089	10	4,945	13	1,796	8	348	6
Trade and industrial	293	a	290	1	3	a	--	--
Visual and performing arts	3,830	5	2,899	7	825	3	106	2
Other	--	--	--	--	--	--	--	--
Total ³	69,061	100	38,859	100	23,949	100	6,253	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. Graduate includes master's and/or doctor's levels, and excludes medical school data.

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

a. Rounds to less than 1 percent.

SOURCE: Data provided by Pennsylvania State University, 1999; CIP classifications - U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs*, 1991.

Table 3C

UNIVERSITY OF PITTSBURGH
NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS¹
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
1998-99

CIP Classification	Total	Percentage of total	Undergraduate				Graduate ²	Percentage of total
			Lower division	Percentage of total	Upper division	Percentage of total		
Agriculture	--	--	--	--	--	--	--	--
Architecture and environmental design	--	--	--	--	--	--	--	--
Area and ethnic studies	154	1%	102	1%	51	1%	1	a
Business	2,176	7	370	2	788	12	1,018	13%
Communications	148	a	22	a	29	a	97	1
Computer and information sciences	1,154	4	692	5	227	3	235	3
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	1,994	7	407	3	413	6	1,174	15
Engineering	1,409	5	429	3	563	8	417	5
Foreign languages	1,603	5	1,124	8	390	6	89	1
Health	3,131	11	279	2	764	11	2,088	26
Home economics	49	a	--	--	47	1	2	a
Industrial arts	--	--	--	--	--	--	--	--
Law	870	3	--	--	--	--	870	11
Letters	2,653	9	1,882	13	651	10	120	1
Liberal/general studies	--	--	--	--	--	--	--	--
Library and archival sciences	209	1	15	a	12	a	182	2
Life sciences	1,124	4	737	5	306	5	81	1
Mathematics	1,889	6	1,573	11	233	4	83	1
Military sciences	11	a	6	a	5	a	--	--
Multi/interdisciplinary studies	248	1	192	1	53	1	3	a
Parks and recreation	--	--	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--	--	--
Philosophy, religion and theology	741	3	566	4	132	2	43	1
Physical sciences	2,113	7	1,752	12	158	2	203	3
Psychology	1,295	4	966	6	249	4	80	1
Public affairs and protective services	1,457	5	145	1	454	7	858	11
Social sciences	3,708	13	2,494	17	1,015	15	199	3
Trade and industrial	--	--	--	--	--	--	--	--
Visual and performing arts	1,087	4	885	6	159	2	43	1
Other	--	--	--	--	--	--	--	--
Total ³	29,222	100	14,637	100	6,699	100	7,886	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. Graduate includes master's, first-professional (excluding medical school) and/or doctor's levels.

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

a. Rounds to less than 1 percent.

SOURCE: Data provided by University of Pittsburgh, 1999; CIP classifications - U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs*, 1991.

Table 3D

TEMPLE UNIVERSITY
NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS¹
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
1998-99

CIP Classification	Total	Percentage of total	Undergraduate				Graduate ²	Percentage of total
			Lower division	Percentage of total	Upper division	Percentage of total		
Agriculture	71	a	33	a	38	a	--	--
Architecture and environmental design	232	1%	81	1%	150	2%	1	a
Area and ethnic studies	311	1	141	2	129	1	41	1%
Business	2,600	11	650	9	1,251	14	699	10
Communications	584	3	196	3	299	3	89	1
Computer and information sciences	585	3	199	3	277	3	109	2
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	2,127	9	397	6	1,063	12	667	10
Engineering	411	2	86	1	280	3	45	1
Foreign languages	630	3	328	5	272	3	30	a
Health	3,198	14	99	1	837	9	2,262	32
Home economics	--	--	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--	--	--
Law	1,634	7	132	2	153	2	1,349	19
Letters	1,105	5	646	9	394	4	65	1
Liberal/general studies	552	2	392	6	159	2	1	a
Library and archival sciences	--	--	--	--	--	--	--	--
Life sciences	400	2	169	2	195	2	36	1
Mathematics	1,133	5	670	9	371	4	92	1
Military sciences	6	a	3	a	3	a	--	--
Multi/interdisciplinary studies	5	a	5	a	--	--	--	--
Parks and recreation	--	--	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--	--	--
Philosophy, religion and theology	367	2	171	2	154	2	42	1
Physical sciences	810	3	418	6	332	4	60	1
Psychology	1,182	5	323	5	449	5	410	6
Public affairs and protective services	999	4	158	2	395	4	446	6
Social sciences	2,398	10	1,065	15	1,091	12	242	3
Trade and industrial	--	--	--	--	--	--	--	--
Visual and performing arts	1,946	8	804	11	868	9	274	4
Other	--	--	--	--	--	--	--	--
Total ³	23,286	100	7,167	100	9,159	100	6,960	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. Graduate includes master's, first-professional (excluding medical school) and/or doctor's levels.

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

a. Rounds to less than 1 percent.

SOURCE: Data provided by Temple University, 1999; CIP classifications - U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs*, 1991.

Table 3E

STATE-OWNED UNIVERSITIES¹
NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS²
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
1998-99

CIP Classification	Total	Percentage of total	Undergraduate				Graduate ³	Percentage of total
			Lower division	Percentage of total	Upper division	Percentage of total		
Agriculture	112	a	107	a	3	a	2	a
Architecture and environmental design	17	a	2	a	13	a	2	a
Area and ethnic studies	399	a	214	a	172	1%	13	a
Business	7,249	8%	2,873	5%	3,791	15	585	8%
Communications	2,545	3	1,432	3	999	4	114	2
Computer and information sciences	2,111	2	1,577	3	441	2	93	1
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	15,898	18	5,137	9	7,116	28	3,645	49
Engineering	210	a	86	a	99	a	25	a
Foreign languages	2,375	3	2,010	4	320	1	45	1
Health	2,975	3	868	2	1,457	6	650	9
Home economics	555	1	275	1	266	1	14	a
Industrial arts	580	1	199	a	182	1	199	3
Law	126	a	69	a	42	a	15	a
Letters	8,453	10	6,684	12	1,507	6	262	4
Liberal/general studies	142	a	130	a	12	a	--	--
Library and archival sciences	190	a	25	a	49	a	116	2
Life sciences	3,798	4	2,887	5	752	3	159	2
Mathematics	5,318	6	4,638	9	527	2	153	2
Military sciences	125	a	106	a	19	a	--	--
Multi/interdisciplinary studies	318	a	258	a	47	a	13	a
Parks and recreation	860	1	464	1	355	1	41	1
Personal and social development	515	1	431	1	47	a	37	a
Philosophy, religion and theology	1,906	2	1,581	3	299	1	26	a
Physical sciences	4,517	5	3,957	7	521	2	39	1
Psychology	5,122	6	3,076	6	1,464	6	582	8
Public affairs and protective services	1,619	2	713	1	786	3	120	2
Social sciences	12,497	14	9,484	18	2,627	10	386	5
Trade and industrial	43	a	33	a	10	a	--	--
Visual and performing arts	6,009	7	4,613	9	1,289	5	107	1
Other	202	a	153	a	47	a	2	a
Total ⁴	86,761	100	54,075	100	25,253	100	7,433	100

1. No data for Cheyney University.

2. 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.

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

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

a. Rounds to less than 1 percent.

SOURCE: Data provided by the individual State-owned universities, 1999; CIP classifications - U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs*, 1991.

Table 4

DEGREES CONFERRED¹
1998-99, CHANGE FROM 1997-98 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1993-94 to 1998-99)

University	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	One-year	Five-year average		One-year	One-year	Five-year average		One-year	One-year	Five-year average
State-related												
Lincoln	359	41	13%	3%	189	4	2%	-3%	170	37	28%	17%
Penn State	12,583	897	8	2	10,044	985	11	2	2,539	-88	-3	2
Pittsburgh	6,530	16	a	-1	3,781	-73	-2	-1	2,749	89	3	a
Temple	5,497	-37	-1	-1	3,135	-77	-2	-1	2,362	40	2	a
Total	24,969	917	4	a	17,149	839	5	a	7,820	78	1	1
State-owned												
Bloomsburg	1,431	-33	-2	-2	1,196	-43	-3	-3	235	10	4	1
California	1,260	22	2	1	929	8	1	a	331	14	4	4
Cheyney	258	-16	-6	1	127	-51	-29	-5	131	35	36	14
Clarion	925	-85	-8	-5	774	-76	-9	-5	151	-9	-6	-3
East Stroudsburg	1,038	-9	-1	a	799	-22	-3	-1	239	13	6	4
Edinboro	1,142	-109	-9	-4	1,010	-56	-5	-4	132	-53	-29	-4
Indiana	2,604	0	0	-1	2,063	3	a	-2	541	-3	-1	2
Kutztown	1,366	53	4	a	1,138	27	2	-1	228	26	13	5
Lock Haven	660	78	13	a	638	81	15	a	22	-3	-12	420
Mansfield	570	30	6	-3	508	52	11	-2	62	-22	-26	-7
Millersville	1,451	12	1	a	1,268	11	1	a	183	1	1	1
Shippensburg	1,465	103	8	-1	1,156	98	9	-1	309	5	2	a
Slippery Rock	1,342	86	7	a	1,145	50	5	-2	197	36	22	10
West Chester	1,990	87	5	a	1,559	50	3	-1	431	37	9	9
Total	17,502	219	1	-1	14,310	132	1	-2	3,192	87	3	3
All universities	42,471	1,136	3	a	31,459	971	3	-1	11,012	165	2	1

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

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

a. Rounds to less than 1 percent.

SOURCE: Data provided by the individual universities, 1994 to 1999.

Table 5

NUMBER AND WORKWEEKS OF FULL-TIME EMPLOYED FACULTY BY TYPE OF ACTIVITY
FALL 1998, AND PERCENTAGE CHANGE FROM FALL 1997

University	Full-time employed faculty ¹	Average weekly hours ²										Total work- week	Percentage change
		Student contact				Instruc- tional support ³	Percentage change	Research	Percentage change	Other university service ⁴	Percentage change		
		Under- graduate	Percentage change	Graduate	Percentage change								
State-related													
Lincoln	93	10.7	3%	.9	0%	22.7	12%	11.7	2%	10.2	-8%	56.2	4%
Penn State	3,096	6.4	-6	1.7	0	19.0	-2	17.0	1	7.9	1	52.0	-1
Pittsburgh	1,782	4.5	2	3.7	-3	13.4	-3	18.3	-1	12.3	-2	52.2	-2
Temple	1,025	5.5	2	4.1	11	18.7	-1	13.3	-3	12.3	1	53.9	a
Total	5,996	5.7	-3	2.7	4	17.4	-1	16.7	0	10.0	-1	52.5	-1
State-owned													
Bloomsburg	370	11.0	-2	.9	13	17.5	1	8.4	-5	17.4	1	55.2	a
California	267	10.0	-5	1.7	0	18.5	3	6.7	-9	18.8	-10	55.7	-5
Cheyney ⁵	87	11.0	--	1.0	--	15.6	--	6.6	--	18.6	--	52.8	--
Clarion	339	11.1	6	.8	0	19.3	5	8.7	6	13.2	-2	53.1	3
East Stroudsburg	250	11.0	-2	1.2	9	17.5	-4	8.0	-2	18.2	6	55.9	0
Edinboro	336	13.1	-1	1.0	0	17.9	2	8.7	0	14.6	1	55.3	1
Indiana	743	10.0	-1	1.4	27	17.3	3	10.0	10	19.2	8	57.9	6
Kutztown	372	11.3	0	.6	0	16.6	-1	8.8	5	17.4	4	54.7	2
Lock Haven	199	11.5	4	.2	100	17.9	0	6.5	-3	18.5	9	54.6	3
Mansfield	150	11.0	-1	.6	500	21.7	5	10.3	7	17.7	-7	61.3	1
Millersville	313	10.6	0	.8	14	16.3	-1	8.4	-12	17.4	1	53.5	-2
Shippensburg	288	9.7	-1	.9	-10	18.0	3	8.1	5	18.8	6	55.5	3
Slippery Rock	362	9.7	3	.8	0	18.3	-1	8.7	0	17.5	-4	55.0	-1
West Chester	558	10.4	1	1.6	7	17.4	1	12.0	0	18.4	-5	59.8	-1
Total	4,634	10.7	0	1.0	11	17.7	1	8.9	1	17.6	1	55.9	1
All universities	10,630	7.9	0	2.0	5	17.5	-1	13.4	1	13.2	0	54.0	a

1. The number of full-time employed faculty represents those reported by each university for the fall term.

2. Averages calculated for the full-time employed faculty who reported complete workweeks of 100 hours or less for the fall term.

3. Includes course preparation and evaluation.

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

5. No data for Fall 1998; Fall 1997 data repeated.

a. Rounds to less than 1 percent.

SOURCE: Data provided by the individual universities, 1998 and 1999.

Table 6

NUMBER AND AVERAGE INSTRUCTIONAL SALARIES OF FULL-TIME EQUIVALENT INSTRUCTIONAL FACULTY AND PERCENTAGE DISTRIBUTION BY RANK¹
1998-99
(Dollars in thousands)

University	FTE		Average		Professor		Associate professor		Assistant professor		Instructor		No rank ²	
	Number	Percentage	Amount	Percentage	Average	Percent-	Average	Percent-	Average	Percent-	Average	Percent-	Average	Percent-
		change		change										
		1997-98 to		1997-98 to	tional	of	tional	of	tional	of	tional	of	tional	of
		1998-99		1998-99	salary	faculty	salary	faculty	salary	faculty	salary	faculty	salary	faculty
State-related														
Lincoln	138	2%	\$34.1	5%	\$55.3	16%	\$42.8	14%	\$32.2	29%	\$22.4	22%	\$26.3	19%
Penn State	3,754	3	50.0	4	85.4	17	58.6	19	47.9	21	35.8	14	32.6	29
Pittsburgh	1,799	-2	47.0	-2	74.1	21	52.2	23	41.6	18	28.1	14	34.1	24
Temple	1,399	2	48.1	2	76.4	27	57.7	23	41.3	14	25.1	16	21.2	20
Total	7,090	1	48.5	2	79.5	20	56.4	21	45.0	19	31.2	14	31.1	26
State-owned														
Bloomsburg	398	-2	53.9	2	68.6	28	56.8	34	43.5	29	32.2	9	na	0
California	282	1	55.8	4	71.1	40	55.7	28	44.6	15	30.7	15	29.8	2
Cheyney	106	3	58.1	14	76.6	28	58.7	26	54.0	22	39.4	24	na	0
Clarion	320	-2	56.0	4	74.7	30	59.0	27	44.5	29	33.7	14	na	0
East Stroudsburg	285	3	56.3	2	72.9	34	61.7	27	43.4	25	29.0	14	na	0
Edinboro	385	-1	54.8	3	71.0	28	56.5	26	46.1	38	35.5	8	na	0
Indiana	763	3	52.1	-4	67.5	33	54.1	27	41.2	27	31.8	12	28.2	1
Kutztown	371	-1	56.6	3	74.6	31	59.7	28	44.4	30	32.5	11	na	0
Lock Haven	183	-6	52.5	5	72.1	22	58.3	28	44.8	32	33.2	18	na	0
Mansfield	172	1	54.3	5	70.1	25	58.0	32	45.1	30	26.3	11	94.4	2
Millersville	406	0	53.7	2	70.0	34	57.1	23	43.3	28	30.9	15	na	0
Shippensburg	300	-3	57.4	2	73.2	37	60.9	16	46.0	42	28.8	5	na	0
Slippery Rock	352	-2	57.7	1	71.6	32	56.7	26	49.1	34	40.3	8	na	0
West Chester	610	3	50.3	1	69.7	24	57.3	27	45.9	21	30.2	28	36.9	a
Total	4,933	a	54.3	2	71.0	31	57.3	27	44.8	28	31.9	14	37.6	a
All universities	12,023	1	50.9	2	75.0	24	56.8	23	44.9	23	31.5	14	31.2	16

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 of 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: Data provided by the individual universities, 1998 and 1999.

Table 7

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT BY ACADEMIC DIVISION AND LEVEL¹
1998-99, CHANGE FROM 1997-98 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1993-94 to 1998-99)

University	Undergraduate						Master's					
	Lower division	Percentage change		Upper division	Percentage change		Total undergraduate	Percentage change		Total master's	Percentage change	
		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average
State-related												
Lincoln	\$2,098	18%	3%	\$3,381	-10%	3%	\$2,395	9%	2%	\$1,820	3%	1%
Penn State	1,590	5	2	2,947	5	3	2,107	6	3	4,888	-3	6
Pittsburgh	1,628	-6	1	3,109	-7	2	2,093	-6	1	5,229	-1	3
Temple	2,002	3	7	2,759	6	4	2,427	5	6	3,666	12	6
Total	1,655	2	2	2,931	2	3	2,157	3	3	4,563	a	4
State-owned												
Bloomsburg	2,284	3	2	4,162	-2	5	2,834	1	3	4,283	-9	a
California	2,199	a	2	3,979	10	4	2,768	4	3	3,835	16	1
Cheyney	nd	--	--	nd	--	--	nd	--	--	nd	--	--
Clarion	2,386	6	1	4,846	2	4	3,054	3	1	5,374	-2	7
East Stroudsburg	2,344	2	2	4,188	5	2	2,899	4	2	2,589	-5	a
Edinboro	2,556	4	5	4,196	a	2	3,121	3	4	5,004	4	2
Indiana	2,032	-1	1	4,422	-2	4	2,786	-2	2	5,963	-1	3
Kutztown	2,081	1	1	4,616	1	4	2,951	1	2	4,129	1	1
Lock Haven	2,144	5	1	3,762	-19	a	2,681	-6	1	3,228	29	-15
Mansfield	2,520	16	8	5,011	6	2	3,490	11	5	3,637	-9	-1
Millersville	2,841	2	3	3,766	3	3	3,175	2	3	3,138	10	-2
Shippensburg	2,290	1	a	3,788	-5	-1	2,738	-1	a	3,817	2	3
Slippery Rock	2,499	1	3	4,418	1	3	3,068	1	3	4,653	-2	b
West Chester	2,314	1	a	3,864	a	3	2,808	a	1	4,260	3	-1
Total ²	2,310	1	2	4,207	-1	3	2,914	a	2	4,156	3	2
All universities ²	1,960	1	2	3,424	a	3	2,488	1	2	4,415	1	3

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

2. No data for Cheyney University.

a. Rounds to less than 1 percent.

b. The master's level includes the doctor's level prior to 1997-98.

nd. No data.

SOURCE: Data provided by the individual universities, 1994 to 1999.

Table 8A

LINCOLN UNIVERSITY
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
 1998-99

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	\$1,760	\$2,523	\$2,163	\$3,519	--	--
Communications	--	--	--	--	--	--
Computer and information sciences	2,348	3,353	2,543	--	--	--
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,983	2,666	2,115	2,524	--	--
Engineering	--	--	--	--	--	--
Foreign languages	3,138	7,404	3,502	--	--	--
Health	--	--	--	--	--	--
Home economics	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--
Law	--	--	--	--	--	--
Letters	2,071	5,370	2,328	--	--	--
Liberal/general studies	--	--	--	--	--	--
Library and archival sciences	--	--	--	--	--	--
Life sciences	1,292	3,846	1,722	--	--	--
Mathematics	2,182	8,600	2,430	--	--	--
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	2,836	2,709	2,795	--	--	--
Parks and recreation	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	1,651	3,930	2,058	--	--	--
Physical sciences	2,803	4,621	3,336	--	--	--
Psychology	2,289	5,814	3,198	--	--	--
Public affairs and protective services	--	--	--	1,603	--	--
Social sciences	2,218	2,551	2,366	2,610	--	--
Trade and industrial	--	--	--	--	--	--
Visual and performing arts	--	--	--	--	--	--
Other	--	--	--	--	--	--
Total	2,098	3,381	2,395	1,820	--	--

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

SOURCE: Data provided by Lincoln University, 1999; CIP classifications - U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs*, 1991.

Table 8B

PENNSYLVANIA STATE UNIVERSITY
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
 1998-99

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional ²	Doctor's
Agriculture	\$2,029	\$2,516	\$2,431	\$6,915	--	\$11,345
Architecture and environmental design	1,439	5,490	2,944	20,866	--	22,596
Area and ethnic studies	1,836	3,301	2,434	6,712	--	15,014
Business	1,498	2,513	2,140	3,311	--	8,850
Communications	840	2,894	2,151	6,870	--	18,900
Computer and information sciences	1,866	3,635	2,260	2,891	--	14,136
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,680	3,299	2,732	1,930	--	6,563
Engineering	3,784	4,022	3,955	5,755	--	18,974
Foreign languages	1,809	2,603	1,988	9,035	--	11,630
Health	1,590	3,418	2,675	5,132	--	11,237
Home economics	803	2,280	1,475	4,173	--	13,631
Industrial arts	--	--	--	--	--	--
Law	--	--	--	--	--	--
Letters	1,830	2,424	2,000	5,365	--	14,035
Liberal/general studies	3,556	2,636	2,744	16,300	--	18,344
Library and archival sciences	956	--	956	--	--	--
Life sciences	1,317	2,719	1,668	10,162	--	17,251
Mathematics	1,802	3,497	1,965	4,434	--	17,307
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	1,675	2,012	1,900	4,251	--	8,288
Parks and recreation	449	1,604	1,462	5,869	--	15,250
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	1,214	3,191	1,459	6,348	--	18,577
Physical sciences	1,713	4,014	2,100	14,786	--	18,704
Psychology	713	2,547	1,385	5,120	--	9,434
Public affairs and protective services	1,097	2,263	1,952	5,092	--	17,222
Social sciences	1,128	2,829	1,581	5,047	--	18,114
Trade and industrial	3,590	--	3,590	--	--	--
Visual and performing arts	1,324	4,161	1,953	8,455	--	13,433
Other	--	--	--	--	--	--
Total	1,590	2,947	2,107	4,888	--	13,113

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

2. Excludes medical school data.

SOURCE: Data provided by Pennsylvania State University, 1999; CIP classifications - U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs*, 1991.

Table 8C

UNIVERSITY OF PITTSBURGH
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
 1998-99

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional ²	Doctor's
Agriculture	--	--	--	--	--	--
Architecture and environmental design	--	--	--	--	--	--
Area and ethnic studies	\$1,401	\$4,407	\$2,404	\$17,367	--	\$25,884
Business	1,779	1,977	1,914	2,969	--	29,202
Communications	2,141	4,262	3,346	2,090	--	11,790
Computer and information sciences	1,279	2,837	1,664	3,703	--	12,549
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,416	2,422	1,923	3,032	--	7,622
Engineering	3,062	3,630	3,385	8,142	--	14,519
Foreign languages	2,065	2,626	2,209	7,416	--	15,982
Health	2,062	3,899	3,408	7,997	\$1,150	12,437
Home economics	--	2,357	2,357	17,497	--	--
Industrial arts	--	--	--	--	--	--
Law	--	--	--	--	2,348	--
Letters	1,883	2,787	2,115	5,318	--	14,064
Liberal/general studies	--	--	--	--	--	--
Library and archival sciences	--	--	--	3,750	--	16,774
Life sciences	1,697	3,536	2,237	15,466	--	18,153
Mathematics	1,701	3,194	1,894	7,592	--	15,747
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	1,590	3,546	2,011	--	--	--
Parks and recreation	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	1,717	3,271	2,011	12,772	--	16,329
Physical sciences	1,579	7,532	2,072	12,842	--	11,491
Psychology	783	2,083	1,049	9,437	--	11,370
Public affairs and protective services	1,076	1,962	1,747	3,326	9,272	8,563
Social sciences	1,500	3,386	2,046	10,218	5,310	19,642
Trade and industrial	--	--	--	--	--	--
Visual and performing arts	1,268	5,064	1,845	10,209	--	16,403
Other	--	--	--	--	--	--
Total	1,628	3,109	2,093	5,229	1,667	12,063

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

2. Excludes medical school data.

SOURCE: Data provided by University of Pittsburgh, 1999; CIP classifications - U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs*, 1991.

Table 8D

TEMPLE UNIVERSITY
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
 1998-99

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total under-graduate	Master's	First professional ²	Doctor's
Agriculture	\$2,651	\$3,166	\$2,926	--	--	--
Architecture and environmental design	3,056	4,247	3,829	\$5,099	--	--
Area and ethnic studies	1,992	2,885	2,418	7,189	--	\$8,049
Business	1,880	2,593	2,349	2,933	--	12,197
Communications	1,390	2,889	2,295	5,356	--	5,404
Computer and information sciences	2,174	3,414	2,895	3,357	--	6,536
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,819	2,501	2,316	2,931	--	5,222
Engineering	3,274	4,198	3,981	8,495	--	20,204
Foreign languages	2,370	3,019	2,664	4,038	--	14,250
Health	2,510	1,664	1,753	3,574	\$2,957	10,798
Home economics	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--
Law	1,900	3,407	2,707	3,038	3,443	--
Letters	2,220	2,857	2,461	6,100	--	6,686
Liberal/general studies	1,240	1,152	1,215	2,500	--	--
Library and archival sciences	--	--	--	--	--	--
Life sciences	962	2,449	1,759	3,510	--	7,701
Mathematics	2,364	2,961	2,576	3,484	--	18,249
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	3,231	--	3,231	--	--	--
Parks and recreation	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	2,627	3,811	3,188	5,503	--	15,506
Physical sciences	2,036	2,895	2,416	4,638	--	16,849
Psychology	1,293	2,366	1,917	3,205	--	8,028
Public affairs and protective services	1,700	2,038	1,941	3,000	--	11,747
Social sciences	1,705	2,682	2,200	4,442	--	8,353
Trade and industrial	--	--	--	--	--	--
Visual and performing arts	2,523	3,790	3,181	6,726	--	11,110
Other	--	--	--	--	--	--
Total	2,002	2,759	2,427	3,666	3,161	8,930

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

2. Excludes medical school data.

SOURCE: Data provided by Temple University, 1999; CIP classifications - U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs*, 1991.

Table 8E

STATE-OWNED UNIVERSITIES¹
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT²
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
 1998-99

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional	Doctor's
Agriculture	\$2,310	\$6,339	\$2,420	\$3,094	--	--
Architecture and environmental design	3,765	3,742	3,745	7,261	--	--
Area and ethnic studies	2,726	3,664	3,144	6,397	--	--
Business	2,190	3,474	2,920	3,853	--	--
Communications	2,136	3,855	2,843	5,329	--	--
Computer and information sciences	2,480	4,477	2,916	3,789	--	--
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education ³	1,871	3,645	2,902	3,055	--	\$5,174
Engineering	4,518	7,090	5,895	3,789	--	--
Foreign languages	2,984	6,496	3,466	4,589	--	--
Health ⁴	2,993	4,996	4,248	4,821	--	1,297
Home economics	1,679	3,112	2,383	12,441	--	--
Industrial arts	4,711	5,343	5,013	2,850	--	--
Law	2,369	1,982	2,222	2,428	--	--
Letters ³	2,330	3,925	2,623	7,136	--	5,817
Liberal/general studies	1,675	--	1,675	--	--	--
Library and archival sciences	2,520	3,818	3,380	3,213	--	--
Life sciences	2,613	6,612	3,439	8,959	--	--
Mathematics	2,492	5,097	2,758	5,859	--	--
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	2,084	7,074	2,853	6,038	--	--
Parks and recreation	2,483	3,594	2,965	7,788	--	--
Personal and social development	2,800	4,779	2,994	4,271	--	--
Philosophy, religion and theology	2,144	3,766	2,402	8,259	--	--
Physical sciences	3,021	9,397	3,763	15,243	--	--
Psychology ³	1,743	3,388	2,274	3,943	--	8,401
Public affairs and protective services	1,810	3,436	2,663	4,458	--	--
Social sciences ³	1,883	3,995	2,341	6,304	--	5,355
Trade and industrial	5,610	10,420	6,729	--	--	--
Visual and performing arts	2,688	6,793	3,584	13,939	--	--
Other	2,517	1,222	2,213	2,563	--	--
Total	2,310	4,207	2,914	4,156	--	3,695

1. No data for Cheyney University.

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

3. Doctor's level includes only Indiana University.

4. Doctor's level includes only Slippery Rock University.

SOURCE: Data provided by the individual State-owned universities, 1999; CIP classifications - U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs*, 1991.

Table 9

AVERAGE CLASS SIZES IN CLASSROOM INSTRUCTION BY ACADEMIC DIVISION AND LEVEL¹
1998-99, CHANGE FROM 1997-98 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1993-94 to 1998-99)

University	Undergraduate									Master's		
	Lower division			Upper division			Total undergraduate					
	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	20	-9%	-1%	13	8%	-1%	18	-5%	-1%	14	-7%	-3%
Penn State	31	0	1	27	0	0	29	0	0	15	7	1
Pittsburgh	31	3	1	23	5	-2	28	4	0	17	-6	-1
Temple	25	-4	-1	22	0	-1	24	0	-1	14	0	-3
Total	30	3	1	25	4	0	28	4	0	15	-6	-1
State-owned												
Bloomsburg ²	27	13	3	19	27	2	24	20	3	12	33	4
California	29	0	-1	16	-6	-3	23	-4	-2	12	-14	-2
Cheyney	nd	--	--	nd	--	--	nd	--	--	nd	--	--
Clarion	33	0	1	15	7	-2	25	4	0	11	10	-4
East Stroudsburg	28	-3	1	18	-5	0	24	-4	0	17	6	-1
Edinboro	24	-4	-2	17	0	0	21	-5	-2	9	0	0
Indiana	29	4	0	13	0	-4	21	0	-2	8	0	-2
Kutztown	29	0	1	16	0	0	22	0	0	14	8	2
Lock Haven	29	-3	0	21	17	12	26	4	5	12	33	60
Mansfield ²	28	8	0	17	89	18	23	53	9	12	50	10
Millersville	25	0	0	20	0	1	23	0	1	15	-12	1
Shippensburg	29	0	1	22	5	8	27	4	3	14	0	-1
Slippery Rock	31	0	0	15	-6	-1	24	0	0	13	8	a
West Chester	24	0	1	14	0	-1	20	0	1	11	0	2
Total ³	28	4	1	16	7	0	23	5	1	12	0	0
All universities ³	29	4	1	20	5	0	25	4	0	14	0	0

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

2. Adjustments were made to classroom course (assigned) credits in 1998-99.

3. No data for Cheyney University.

a. The master's level includes the doctor's level prior to 1996-97.

nd. No data.

SOURCE: Data provided by the individual universities, 1994 to 1999.

Table 10

ACADEMIC YEAR TUITION AND REQUIRED FEES FOR FULL-TIME STUDENTS BY ACADEMIC LEVEL AND RESIDENCE
1998-99, CHANGE FROM 1997-98 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1993-94 to 1998-99)

University	Undergraduate						Graduate ¹					
	In- State			Out-of-State			In- State			Out-of-State		
	Tuition and required fees	Percentage change		Tuition and required fees	Percentage change		Tuition and required fees	Percentage change		Tuition and required fees	Percentage change	
	One-year	Five-year average		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average	
State-related												
Lincoln	\$4,595	5%	9%	\$7,210	4%	9%	\$5,830	5%	4%	\$9,580	4%	8%
Penn State ²	6,092	4	5	12,908	4	4	6,786	4	5	13,712	4	5
Pittsburgh ²	6,424	4	5	13,458	4	5	8,498	4	5	16,988	4	5
Temple	6,378	4	4	11,408	3	3	8,032	5	6	10,936	3	7
Average	5,872	4	5	11,246	4	5	7,287	4	5	12,804	4	6
State-owned												
Bloomsburg	4,278	0	5	9,634	0	5	4,133	0	5	6,901	0	5
California	4,545	2	4	9,901	1	4	4,441	1	5	7,209	1	5
Cheyney	4,023	0	4	9,379	0	4	3,850	0	4	6,618	0	4
Clarion	4,569	4	5	8,905	-9	2	4,469	4	5	7,237	3	5
East Stroudsburg	4,314	a	4	9,670	a	4	4,168	a	4	6,936	a	4
Edinboro	4,193	0	4	10,084	6	5	4,366	0	5	7,549	6	6
Indiana	4,244	1	4	9,600	a	4	4,133	1	4	6,901	1	4
Kutztown	4,251	1	4	9,607	a	3	4,111	1	4	6,879	a	4
Lock Haven	4,071	a	3	7,427	-21	-1	4,071	a	3	6,939	2	4
Mansfield	4,410	1	6	9,766	1	5	4,010	2	4	6,778	1	4
Millersville	4,429	1	4	9,785	a	4	4,429	1	4	7,197	a	4
Shippensburg	4,344	0	3	9,700	0	4	4,144	0	3	6,912	0	4
Slippery Rock	4,311	a	4	9,667	a	4	4,485	a	5	7,667	6	6
West Chester	4,248	2	4	9,604	1	4	4,128	2	5	6,896	1	5
Average	4,302	1	4	9,481	-1	4	4,210	1	4	7,044	1	5

1. Excludes first-professional level.

2. Main campus data only.

a. Rounds to less than 1 percent.

SOURCE: Pennsylvania Department of Education, *Colleges and Universities-Basic Student Charges*, 1993-94 to 1995-96; Pennsylvania Department of Education, *Colleges and Universities-Education Digest*, 1996-97 to 1998-99.

Table 11

TUITION AND FEE REVENUES RELATED TO FULL-TIME EQUIVALENT STUDENTS¹
 1998-99, CHANGE FROM 1997-98 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1993-94 to 1998-99)

University	Total 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	\$13,536	9%	21%	\$6,520	\$490	8%	9%
Penn State	498,910	7	10	7,220	290	4	6
Pittsburgh	254,238	6	5	8,700	260	3	5
Temple	195,974	8	4	8,420	500	6	6
Total	962,658	7	7	7,790	330	4	6
State-owned							
Bloomsburg	33,072	1	5	4,520	60	1	4
California	23,812	1	2	4,380	40	1	3
Cheyney	6,462	3	2	5,000	230	5	4
Clarion	23,683	a	3	4,170	10	a	3
East Stroudsburg	27,789	2	4	4,960	30	1	3
Edinboro	28,606	-3	a	4,370	-130	-3	3
Indiana	62,610	1	4	4,820	50	1	4
Kutztown	32,328	4	5	4,660	140	3	4
Lock Haven	15,144	2	2	4,220	-140	-3	1
Mansfield	12,973	1	a	4,870	220	5	4
Millersville	32,318	-1	3	4,700	10	a	1
Shippensburg	27,141	a	4	4,440	-30	-1	3
Slippery Rock	28,915	a	1	4,390	50	1	3
West Chester	49,188	2	4	4,720	-50	-1	3
Total	404,041	1	3	4,590	20	a	3
All universities	1,366,699	5	6	6,460	210	3	5

1. Tuition and fee revenues are based on collections by the individual universities. FTE students include in-State and out-of-State undergraduate and graduate students. Excludes medical school data.

a. Rounds to less than 1 percent.

SOURCE: Tuition and fee revenues - data provided by the individual State-related universities and the State System of Higher Education, Commonwealth of Pennsylvania, 1994 to 1999; FTE students - data provided by the individual universities, 1994 to 1999.

Table 12

COMMONWEALTH INSTRUCTIONAL APPROPRIATIONS RELATED TO FULL-TIME EQUIVALENT STUDENTS¹
 1998-99, CHANGE FROM 1997-98 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1993-94 to 1998-99)

University	Total instructional appropriations			Instructional appropriations 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	\$11,032	11%	3%	\$5,320	\$500	10%	-3%
Penn State	229,002	5	3	3,320	70	2	a
Pittsburgh	140,798	4	3	4,820	90	2	3
Temple	147,911	4	2	6,350	180	3	4
Total	528,743	5	3	4,280	100	2	2
State-owned							
Bloomsburg	31,677	4	2	4,330	170	4	2
California	29,012	4	4	5,330	180	3	5
Cheyney	13,836	4	2	10,700	610	6	4
Clarion	29,894	4	3	5,260	220	4	3
East Stroudsburg	22,950	9	2	4,090	260	7	1
Edinboro	31,336	6	4	4,790	250	6	6
Indiana	58,749	3	3	4,520	100	2	3
Kutztown	30,461	4	2	4,390	140	3	2
Lock Haven	18,888	8	4	5,260	120	2	4
Mansfield	17,699	7	4	6,650	630	10	7
Millersville	32,396	3	3	4,710	200	4	1
Shippensburg	28,978	6	3	4,740	250	6	3
Slippery Rock	32,519	3	3	4,940	220	5	5
West Chester	40,479	4	1	3,890	0	0	-1
Total ²	418,874	4	3	4,760	180	4	3
All universities ²	947,617	5	3	4,480	130	3	2

1. Instructional appropriations include educational and general appropriations and, for 1993-94 to 1995-96, Tuition Challenge Grants. FTE students include in-State and out-of-State undergraduate and graduate students. Excludes medical school data.

2. Excludes amount of instructional appropriations allocated to Office of the Chancellor and the System Reserve of the State System of Higher Education.

a. Rounds to less than 1 percent.

SOURCE: Instructional appropriations - *Governor's Executive Budget*, 1995-96 to 1999-2000; data provided by the individual State-related universities and the State System of Higher Education, Commonwealth of Pennsylvania, 1994 to 1999. FTE students - data provided by the individual universities, 1994 to 1999.

Table 13

TUITION AND FEE REVENUES, COMMONWEALTH INSTRUCTIONAL APPROPRIATIONS AND STUDENT AID
RELATED TO FULL-TIME EQUIVALENT STUDENTS¹
1998-99, CHANGE FROM 1997-98 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1993-94 to 1998-99)

University	Per FTE student			Ratio of instructional appropriations to total instructional revenues			Student aid per FTE student ²
	Tuition and fee revenues	Instructional appropriations	Total instructional revenues	Percentage	Percentage change One- Five-year year average		
State-related							
Lincoln	\$6,520	\$5,320	\$11,840	45%	2%	-5%	\$504
Penn State	7,220	3,320	10,540	31	-3	-3	562
Pittsburgh	8,700	4,820	13,520	36	0	-1	587
Temple	8,420	6,350	14,770	43	-2	-1	513
Total	7,790	4,280	12,070	35	-3	-2	558
State-owned							
Bloomsburg	4,520	4,330	8,850	49	2	-1	572
California	4,380	5,330	9,710	55	2	1	648
Cheyney	5,000	10,700	15,700	68	0	0	745
Clarion	4,170	5,260	9,430	56	2	0	775
East Stroudsburg	4,960	4,090	9,050	45	2	-1	521
Edinboro	4,370	4,790	9,160	52	4	1	690
Indiana	4,820	4,520	9,340	48	0	-1	761
Kutztown	4,660	4,390	9,050	49	2	-1	499
Lock Haven	4,220	5,260	9,480	55	2	1	753
Mansfield	4,870	6,650	11,520	58	4	1	809
Millersville	4,700	4,710	9,410	50	2	0	549
Shippensburg	4,440	4,740	9,180	52	4	0	579
Slippery Rock	4,390	4,940	9,330	53	2	1	644
West Chester	4,720	3,890	8,610	45	0	-2	436
Total ³	4,590	4,760	9,350	51	2	0	623
All universities ³	6,460	4,480	10,940	41	0	-1	585

1. Tuition and fee revenues are based on collections by the individual universities. Instructional appropriations include educational and general appropriations and, for 1993-94 to 1995-96, Tuition Challenge Grants. FTE students include in-State and out-of-State undergraduate and graduate students. Excludes medical school data.

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

3. Instructional appropriations exclude amount allocated to Office of the Chancellor and the System Reserve of the State System of Higher Education.

SOURCE: Tuition and fee revenues - data provided by the individual State-related universities and the State System of Higher Education, Commonwealth of Pennsylvania, 1994 to 1999; instructional appropriations - *Governor's Executive Budget*, 1995-96 to 1999-2000; data provided by the individual State-related universities and the State System of Higher Education, Commonwealth of Pennsylvania, 1994 to 1999; FTE students - data provided by the individual universities, 1994 to 1999; student aid - data provided by the Pennsylvania Higher Education Assistance Agency, August 1999.

III. HISTORICAL DATA

Historical Table 1

FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC LEVEL¹
1993-94 to 1998-99

University	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
State-related						
Lincoln						
Total	1,496	1,416	1,546	1,865	2,064	2,075
Undergraduate	1,272	1,217	1,317	1,573	1,641	1,599
Graduate	224	199	229	292	423	476
Penn State						
Total	61,170	61,082	64,137	65,811	67,456	69,061
Undergraduate	54,879	54,725	57,601	59,317	61,110	62,808
Graduate	6,291	6,357	6,536	6,494	6,346	6,253
Pittsburgh						
Total	28,865	28,290	27,565	27,738	28,489	29,222
Undergraduate	20,998	20,478	20,040	19,929	20,457	21,336
Graduate	7,867	7,812	7,525	7,809	8,032	7,886
Temple						
Total	25,349	25,078	24,399	23,455	22,989	23,286
Undergraduate	18,340	18,087	17,711	16,939	16,643	16,326
Graduate	7,009	6,991	6,688	6,516	6,346	6,960
State-owned						
Bloomsburg						
Total	7,159	7,040	7,026	7,225	7,338	7,322
Undergraduate	6,782	6,628	6,582	6,793	6,902	6,851
Graduate	377	412	444	432	436	471
California						
Total	5,804	5,733	5,547	5,226	5,422	5,439
Undergraduate	5,047	4,982	4,690	4,473	4,654	4,646
Graduate	757	751	857	753	768	793
Cheyney						
Total	1,412	1,278	1,303	1,293	1,313	1,293
Undergraduate	1,206	1,084	1,099	1,079	1,025	969
Graduate	206	194	204	214	288	324
Clarion						
Total	5,633	5,409	5,534	5,605	5,695	5,680
Undergraduate	5,312	5,133	5,234	5,300	5,416	5,425
Graduate	321	276	300	305	279	255
East Stroudsburg						
Total	5,277	5,317	5,263	5,325	5,514	5,608
Undergraduate	4,629	4,655	4,597	4,704	4,857	4,912
Graduate	648	662	666	621	657	696
Edinboro						
Total	7,271	6,971	6,840	6,678	6,525	6,541
Undergraduate	6,883	6,556	6,393	6,258	6,132	6,138
Graduate	388	415	447	420	393	403
Indiana						
Total	13,249	12,841	12,764	12,859	12,954	12,997
Undergraduate	12,241	11,795	11,729	11,739	11,805	11,851
Graduate	1,008	1,046	1,035	1,120	1,149	1,146
Kutztown						
Total	6,865	6,909	6,758	6,791	6,892	6,933
Undergraduate	6,476	6,485	6,326	6,383	6,461	6,489
Graduate	389	424	432	408	431	444
Lock Haven						
Total	3,520	3,431	3,243	3,283	3,403	3,590
Undergraduate	3,511	3,413	3,236	3,223	3,300	3,472
Graduate	9	18	7	60	103	118
Mansfield						
Total	3,089	2,893	2,810	2,801	2,757	2,663
Undergraduate	2,914	2,744	2,658	2,653	2,620	2,556
Graduate	175	149	152	148	137	107
Millersville						
Total	6,510	6,711	6,920	6,842	6,944	6,877
Undergraduate	5,710	5,957	6,100	6,046	6,130	6,042
Graduate	800	754	820	796	814	835
Shippensburg						
Total	5,974	5,950	5,989	6,057	6,089	6,110
Undergraduate	5,467	5,449	5,459	5,519	5,561	5,580
Graduate	507	501	530	538	528	530
Slippery Rock						
Total	7,167	7,005	6,908	6,717	6,667	6,584
Undergraduate	6,553	6,382	6,317	6,130	6,066	5,946
Graduate	614	623	591	587	601	638
West Chester						
Total	9,715	9,502	9,578	9,724	10,055	10,417
Undergraduate	8,702	8,565	8,653	8,765	9,021	9,420
Graduate	1,013	937	925	959	1,034	997

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

SOURCE: Data provided by the individual universities, 1994 to 1999.

Historical Table 2

STUDENT CREDIT HOURS BY ACADEMIC DIVISION AND LEVEL¹
 TOTAL YEAR AND SUMMER 1993-94 to 1998-99
 (in thousands)

University	Total year								Summer		
	Lower division	Upper division	Total under-graduate	Master's	First professional	Doctor's	Total graduate	Grand total	Total under-graduate	Total graduate	Grand total
State-related											
Lincoln											
1993-94	28	10	38	5	na	na	5	43	1	1	2
1994-95	26	10	36	5	na	na	5	41	1	1	2
1995-96	30	10	40	6	na	na	6	46	2	1	3
1996-97	37	10	47	7	na	na	7	54	2	1	3
1997-98	38	11	49	10	na	na	10	59	2	1	3
1998-99	37	11	48	11	na	na	11	59	2	1	3
Penn State											
1993-94	1,029	618	1,647	81	na	70	151	1,798	100	22	122
1994-95	1,040	601	1,641	85	na	68	153	1,794	101	21	122
1995-96	1,131	597	1,728	90	na	67	157	1,885	103	23	126
1996-97	1,171	608	1,779	89	na	67	156	1,935	107	23	130
1997-98	1,160	673	1,833	85	na	67	152	1,985	108	23	131
1998-99	1,166	718	1,884	77	na	73	150	2,034	110	21	131
Pittsburgh											
1993-94	415	215	630	129	38	22	189	819	54	33	87
1994-95	405	209	614	128	38	22	188	802	52	34	86
1995-96	398	203	601	120	39	22	181	782	49	30	79
1996-97	403	195	598	123	43	22	188	786	47	34	81
1997-98	421	192	613	126	45	22	193	806	47	35	82
1998-99	439	201	640	119	49	21	189	829	46	35	81
Temple											
1993-94	262	288	550	91	54	23	168	718	52	22	74
1994-95	261	282	543	90	56	22	168	711	52	22	74
1995-96	251	280	531	86	54	20	160	691	52	22	74
1996-97	233	275	508	85	53	18	156	664	48	21	69
1997-98	223	276	499	83	52	17	152	651	47	21	68
1998-99	215	275	490	82	69	16	167	657	47	20	67
State-owned											
Bloomsburg											
1993-94	139	64	203	9	na	na	9	212	19	3	22
1994-95	136	63	199	10	na	na	10	209	17	3	20
1995-96	137	61	198	11	na	na	11	209	18	4	22
1996-97	146	58	204	10	na	na	10	214	16	4	20
1997-98	147	60	207	10	na	na	10	217	17	4	21
1998-99	145	60	205	11	na	na	11	216	17	4	21
California											
1993-94	104	47	151	18	na	na	18	169	8	5	13
1994-95	103	46	149	18	na	na	18	167	7	5	12
1995-96	100	41	141	21	na	na	21	162	7	5	12
1996-97	89	45	134	18	na	na	18	152	7	5	12
1997-98	95	45	140	18	na	na	18	158	7	5	12
1998-99	95	44	139	19	na	na	19	158	7	6	13
Cheyney											
1993-94	27	10	37	5	na	na	5	42	1	1	2
1994-95	23	9	32	5	na	na	5	37	a	1	1
1995-96	24	9	33	5	na	na	5	38	1	1	2
1996-97	23	9	32	5	na	na	5	37	1	1	2
1997-98	22	9	31	7	na	na	7	38	1	1	2
1998-99	20	9	29	8	na	na	8	37	1	a	1
Clarion											
1993-94	111	48	159	8	na	na	8	167	10	2	12
1994-95	108	46	154	7	na	na	7	161	9	2	11
1995-96	111	46	157	7	na	na	7	164	9	2	11
1996-97	115	44	159	7	na	na	7	166	9	2	11
1997-98	117	45	162	7	na	na	7	169	9	2	11
1998-99	119	44	163	6	na	na	6	169	10	1	11
East Stroudsburg											
1993-94	97	42	139	16	na	na	16	155	13	6	19
1994-95	98	42	140	16	na	na	16	156	12	6	18
1995-96	101	37	138	16	na	na	16	154	13	7	20
1996-97	100	41	141	15	na	na	15	156	12	6	18
1997-98	103	43	146	16	na	na	16	162	12	6	18
1998-99	103	44	147	17	na	na	17	164	13	7	20

Edinboro											
1993-94	142	65	207	9	na	na	9	216	14	2	16
1994-95	135	62	197	10	na	na	10	207	12	2	14
1995-96	129	63	192	11	na	na	11	203	11	3	14
1996-97	123	64	187	10	na	na	10	197	12	2	14
1997-98	121	63	184	9	na	na	9	193	12	2	14
1998-99	121	63	184	10	na	na	10	194	12	2	14
Indiana											
1993-94	244	123	367	19	na	5	24	391	29	7	36
1994-95	239	115	354	20	na	5	25	379	27	7	34
1995-96	242	110	352	20	na	5	25	377	26	7	33
1996-97	243	109	352	20	na	7	27	379	25	8	33
1997-98	244	110	354	21	na	7	28	382	26	8	34
1998-99	244	112	356	21	na	6	27	383	26	8	34
Kutztown											
1993-94	125	69	194	9	na	na	9	203	11	3	14
1994-95	128	66	194	10	na	na	10	204	9	3	12
1995-96	125	65	190	10	na	na	10	200	8	3	11
1996-97	125	66	191	10	na	na	10	201	7	3	10
1997-98	128	66	194	10	na	na	10	204	7	3	10
1998-99	128	67	195	11	na	na	11	206	8	3	11
Lock Haven											
1993-94	74	32	106	a	na	na	a	106	5	a	5
1994-95	71	31	102	a	na	na	a	102	5	a	5
1995-96	67	30	97	a	na	na	a	97	5	a	5
1996-97	67	30	97	1	na	na	1	98	5	a	5
1997-98	68	31	99	2	na	na	2	101	6	1	7
1998-99	70	35	105	3	na	na	3	108	6	1	7
Mansfield											
1993-94	55	32	87	4	na	na	4	91	5	2	7
1994-95	51	31	82	4	na	na	4	86	5	1	6
1995-96	48	31	79	4	na	na	4	83	5	1	6
1996-97	48	32	80	3	na	na	3	83	5	1	6
1997-98	48	31	79	3	na	na	3	82	5	1	6
1998-99	47	30	77	3	na	na	3	80	5	1	6
Millersville											
1993-94	114	57	171	19	na	na	19	190	14	13	27
1994-95	114	64	178	18	na	na	18	196	13	11	24
1995-96	116	67	183	20	na	na	20	203	13	13	26
1996-97	115	66	181	19	na	na	19	200	13	11	24
1997-98	116	68	184	19	na	na	19	203	13	11	24
1998-99	116	65	181	20	na	na	20	201	11	12	23
Shippensburg											
1993-94	118	46	164	12	na	na	12	176	8	4	12
1994-95	117	46	163	12	na	na	12	175	7	4	11
1995-96	118	46	164	13	na	na	13	177	8	4	12
1996-97	121	45	166	13	na	na	13	179	8	4	12
1997-98	119	48	167	13	na	na	13	180	7	4	11
1998-99	117	50	167	13	na	na	13	180	7	4	11
Slippery Rock											
1993-94	138	59	197	15	na	b	15	212	16	3	19
1994-95	135	56	191	15	na	b	15	206	14	3	17
1995-96	133	56	189	14	na	b	14	203	14	4	18
1996-97	128	56	184	9	na	5	14	198	13	3	16
1997-98	127	55	182	9	na	6	15	197	13	3	16
1998-99	126	53	179	9	na	6	15	194	13	3	16
West Chester											
1993-94	166	95	261	24	na	na	24	285	20	7	27
1994-95	165	92	257	22	na	na	22	279	19	6	25
1995-96	169	91	260	22	na	na	22	282	20	6	26
1996-97	174	89	263	23	na	na	23	286	20	6	26
1997-98	184	87	271	25	na	na	25	296	20	7	27
1998-99	192	90	282	24	na	na	24	306	24	7	31

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

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

b. Included in master's level.

na. Not applicable.

SOURCE: Data provided by the individual universities, 1994 to 1999.

Historical Table 3

DEGREES CONFERRED¹
1993-94 to 1998-99

University	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
State-related						
Lincoln						
Total	313	298	310	328	318	359
Bachelor's	220	224	240	219	185	189
Graduate	93	74	70	109	133	170
Penn State						
Total	11,510	11,292	11,049	11,484	11,686	12,583
Bachelor's	9,231	8,981	8,716	8,993	9,059	10,044
Graduate	2,279	2,311	2,333	2,491	2,627	2,539
Pittsburgh						
Total	6,872	6,993	6,543	6,668	6,514	6,530
Bachelor's	4,065	4,020	3,885	3,962	3,854	3,781
Graduate	2,807	2,973	2,658	2,706	2,660	2,749
Temple						
Total	5,748	5,768	5,538	5,472	5,534	5,497
Bachelor's	3,382	3,299	3,162	3,070	3,212	3,135
Graduate	2,366	2,469	2,376	2,402	2,322	2,362
State-owned						
Bloomsburg						
Total	1,593	1,543	1,553	1,469	1,464	1,431
Bachelor's	1,368	1,354	1,323	1,231	1,239	1,196
Graduate	225	189	230	238	225	235
California						
Total	1,194	1,133	1,235	1,255	1,238	1,260
Bachelor's	923	865	911	906	921	929
Graduate	271	268	324	349	317	331
Cheyney						
Total	251	268	223	263	274	258
Bachelor's	173	189	132	147	178	127
Graduate	78	79	91	116	96	131
Clarion						
Total	1,195	1,025	1,039	1,004	1,010	925
Bachelor's	1,014	858	890	863	850	774
Graduate	181	167	149	141	160	151
East Stroudsburg						
Total	1,023	1,075	1,068	1,034	1,047	1,038
Bachelor's	826	852	824	788	821	799
Graduate	197	223	244	246	226	239
Edinboro						
Total	1,453	1,401	1,312	1,298	1,251	1,142
Bachelor's	1,284	1,191	1,131	1,094	1,066	1,010
Graduate	169	210	181	204	185	132
Indiana						
Total	2,742	2,591	2,656	2,446	2,604	2,604
Bachelor's	2,254	2,116	2,110	1,956	2,060	2,063
Graduate	488	475	546	490	544	541
Kutztown						
Total	1,382	1,351	1,310	1,362	1,313	1,366
Bachelor's	1,199	1,154	1,086	1,147	1,111	1,138
Graduate	183	197	224	215	202	228
Lock Haven						
Total	646	625	584	586	582	660
Bachelor's	645	624	582	583	557	638
Graduate	1	1	2	3	25	22
Mansfield						
Total	656	611	528	581	540	570
Bachelor's	564	538	467	490	456	508
Graduate	92	73	61	91	84	62
Millersville						
Total	1,468	1,367	1,380	1,398	1,439	1,451
Bachelor's	1,293	1,215	1,229	1,219	1,257	1,268
Graduate	175	152	151	179	182	183
Shippensburg						
Total	1,546	1,435	1,422	1,471	1,362	1,465
Bachelor's	1,230	1,114	1,139	1,161	1,058	1,156
Graduate	316	321	283	310	304	309
Slippery Rock						
Total	1,374	1,381	1,362	1,366	1,256	1,342
Bachelor's	1,242	1,195	1,151	1,153	1,095	1,145
Graduate	132	186	211	213	161	197
West Chester						
Total	1,964	2,001	1,877	1,841	1,903	1,990
Bachelor's	1,666	1,620	1,492	1,489	1,509	1,559
Graduate	298	381	385	352	394	431

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

SOURCE: Data provided by the individual universities, 1994 to 1999.

Historical Table 4

NUMBER AND AVERAGE WEEKLY STUDENT CONTACT HOURS OF FULL-TIME EMPLOYED FACULTY BY ACADEMIC LEVEL¹
FALL 1993 to FALL 1998

University	Full-time employed faculty ²						Undergraduate average weekly student contact hours						Graduate average weekly student contact hours					
	1993	1994	1995	1996	1997	1998	1993	1994	1995	1996	1997	1998	1993	1994	1995	1996	1997	1998
	<hr/>																	
State-related																		
Lincoln	81	83	81	86	94	93	9.5	9.9	9.7	10.3	10.4	10.7	.9	.9	.8	.9	.9	.9
Penn State	2,954	2,943	3,000	3,026	2,975	3,096	6.7	6.7	6.6	6.7	6.8	6.4	1.8	1.8	1.8	1.8	1.7	1.7
Pittsburgh	1,739	1,770	1,721	1,733	1,780	1,782	4.5	4.4	4.8	4.4	4.4	4.5	3.8	4.0	4.2	4.0	3.8	3.7
Temple	1,129	1,137	1,088	1,078	1,033	1,025	4.9	5.0	5.3	5.6	5.4	5.5	3.8	4.0	4.0	3.9	3.7	4.1
Total	5,903	5,933	5,890	5,923	5,882	5,996	5.7	5.7	5.9	5.9	5.9	5.7	2.8	2.9	2.9	2.8	2.6	2.7
State-owned																		
Bloomsburg	360	355	366	368	372	370	11.2	11.4	11.1	11.3	11.2	11.0	.8	.9	.8	.8	.8	.9
California	285	279	286	259	257	267	9.2	10.0	10.2	10.0	10.5	10.0	1.2	1.6	1.6	1.6	1.7	1.7
Cheyney ³	87	92	90	91	87	87	10.5	10.2	10.5	11.0	11.0	11.0	.8	1.0	1.3	1.0	1.0	1.0
Clarion	333	340	346	340	339	339	10.9	11.2	10.5	10.9	10.5	11.1	.9	.7	.9	.8	.8	.8
East Stroudsburg	257	258	263	251	246	250	10.9	10.9	10.9	10.9	11.2	11.0	1.0	1.1	1.0	1.1	1.1	1.2
Edinboro	375	373	363	380	345	336	12.5	12.8	12.8	12.8	13.2	13.1	.6	.8	.9	.9	1.0	1.0
Indiana	692	712	715	720	726	743	10.2	9.8	9.8	10.2	10.1	10.0	1.3	1.4	1.3	1.2	1.1	1.4
Kutztown	352	358	357	373	364	372	11.5	11.4	11.4	11.0	11.3	11.3	.5	.5	.7	.5	.6	.6
Lock Haven	200	200	202	185	197	199	11.8	11.5	11.8	10.9	11.1	11.5	.1	.1	.1	.1	.1	.2
Mansfield	175	174	176	167	161	150	10.8	11.2	10.6	10.6	11.1	11.0	.4	.4	.3	.4	.1	.6
Millersville ⁴	294	305	332	328	324	313	11.2	11.6	10.3	10.1	10.6	10.6	.7	1.0	.9	.8	.7	.8
Shippensburg	311	317	312	308	299	288	9.5	9.4	10.4	10.2	9.8	9.7	.9	.9	1.0	.9	1.0	.9
Slippery Rock	383	378	378	369	371	362	11.0	10.8	10.4	9.9	9.4	9.7	.7	.7	.7	.8	.8	.8
West Chester	540	538	541	530	543	558	10.8	10.8	10.6	10.6	10.3	10.4	1.6	1.5	1.5	1.5	1.5	1.6
Total	4,644	4,679	4,727	4,669	4,631	4,634	10.8	10.9	10.8	10.7	10.7	10.7	.9	1.0	1.0	.9	.9	1.0
All universities	10,547	10,612	10,617	10,592	10,513	10,630	7.9	7.9	8.0	7.9	7.9	7.9	2.0	2.1	2.1	2.0	1.9	2.0

1. Averages calculated for the full-time employed faculty who reported complete workweeks of 100 hours or less for the fall term.

2. The number of full-time employed faculty represents those reported by each university for the fall term.

3. No data for Fall 1998; Fall 1997 data repeated.

4. In Fall 1995 there were changes in definitions and procedures used to gather workweek data making prior years noncomparable.

SOURCE: Data provided by the individual universities, 1994 to 1999.

Historical Table 5

NUMBER AND AVERAGE INSTRUCTIONAL SALARIES OF FULL-TIME EQUIVALENT INSTRUCTIONAL FACULTY BY RANK¹
 1993-94 to 1998-99
 (Dollars in thousands)

University	FTE instructional faculty	Average instructional salaries					Instructor	No rank ²
		All faculty	Professor	Associate professor	Assistant professor			
State-related								
Lincoln								
1993-94	98	\$31.8	\$43.9	\$34.6	\$28.9	\$28.3	\$25.4	
1994-95	99	33.0	47.4	37.8	29.6	27.1	25.0	
1995-96	104	33.7	47.3	40.0	31.2	26.9	27.3	
1996-97	121	33.2	51.8	42.2	31.0	26.1	24.3	
1997-98	135	32.4	54.1	39.8	29.8	21.7	24.6	
1998-99	138	34.1	55.3	42.8	32.2	22.4	26.3	
Penn State								
1993-94	3,445	42.7	69.0	49.8	41.2	33.7	28.4	
1994-95	3,395	43.9	71.5	51.6	41.7	32.5	29.5	
1995-96	3,482	45.1	75.4	52.6	42.6	32.7	30.4	
1996-97	3,557	45.5	76.4	53.8	43.8	31.2	30.0	
1997-98	3,654	48.1	83.6	56.7	46.3	33.3	31.0	
1998-99	3,754	50.0	85.4	58.6	47.9	35.8	32.6	
Pittsburgh								
1993-94	1,838	42.8	67.1	47.9	37.1	25.1	32.6	
1994-95	1,865	43.9	70.3	48.1	38.4	25.7	33.0	
1995-96	1,907	43.8	70.6	48.4	37.6	25.1	32.9	
1996-97	1,855	44.9	71.7	49.6	38.4	25.6	32.2	
1997-98	1,833	47.8	75.0	52.0	41.0	28.5	33.7	
1998-99	1,799	47.0	74.1	52.2	41.6	28.1	34.1	
Temple								
1993-94	1,504	39.7	61.9	48.3	38.3	21.6	19.5	
1994-95	1,537	42.4	66.4	51.9	40.2	20.9	20.4	
1995-96	1,445	45.4	70.4	54.7	38.7	21.9	20.6	
1996-97	1,426	46.0	71.3	54.9	39.3	21.4	21.9	
1997-98	1,365	47.1	72.0	56.1	41.0	22.6	20.5	
1998-99	1,399	48.1	76.4	57.7	41.3	25.1	21.2	
State-owned								
Bloomsburg								
1993-94	393	47.5	61.2	49.1	39.3	31.2	na	
1994-95	389	50.2	63.8	51.9	40.6	32.5	na	
1995-96	392	52.4	66.1	53.4	42.0	31.8	61.8	
1996-97	397	51.7	65.1	53.7	43.1	31.8	na	
1997-98	405	52.7	67.7	54.7	42.5	31.7	na	
1998-99	398	53.9	68.6	56.8	43.5	32.2	na	
California								
1993-94	280	53.4	64.6	55.1	43.6	33.9	32.8	
1994-95	284	52.7	66.0	53.2	44.1	26.4	40.9	
1995-96	285	54.7	68.6	56.4	44.0	26.9	47.2	
1996-97	272	54.0	66.8	53.8	43.3	22.0	49.0	
1997-98	279	53.4	66.8	54.8	44.8	26.6	45.5	
1998-99	282	55.8	71.1	55.7	44.6	30.7	29.8	
Cheyney								
1993-94	95	46.3	57.0	44.1	40.8	33.1	na	
1994-95	93	49.8	60.8	47.8	44.3	39.3	10.4	
1995-96	96	52.9	69.2	54.1	43.1	34.0	0	
1996-97	99	50.0	64.2	50.6	41.1	33.8	0	
1997-98	103	51.0	63.4	54.0	45.3	33.6	na	
1998-99	106	58.1	76.6	58.7	54.0	39.4	na	
Clarion								
1993-94	329	49.8	63.7	52.2	40.6	28.6	56.7	
1994-95	330	51.1	66.2	53.5	42.5	29.4	24.9	
1995-96	327	53.4	68.4	56.1	43.1	32.7	na	
1996-97	327	53.0	69.2	55.5	42.6	31.0	na	
1997-98	326	53.9	69.4	58.0	42.6	31.8	na	
1998-99	320	56.0	74.7	59.0	44.5	33.7	na	
East Stroudsburg								
1993-94	292	47.7	57.9	49.6	38.0	17.2	na	
1994-95	293	49.9	60.4	51.1	40.2	20.4	na	
1995-96	302	51.5	63.4	52.5	42.0	20.2	na	
1996-97 ^a	266	56.6	70.4	58.1	46.2	25.3	na	
1997-98	277	55.4	68.8	59.6	44.2	25.1	na	
1998-99	285	56.3	72.9	61.7	43.4	29.0	na	

Edinboro								
1993-94	416	47.4	60.9	49.1	39.3	31.6		na
1994-95	409	49.9	64.5	51.4	41.3	33.9		na
1995-96	401	51.3	65.3	51.7	43.4	34.5		19.0
1996-97	393	51.8	67.2	54.3	43.5	36.6		na
1997-98	387	53.1	68.9	55.6	45.2	34.1		na
1998-99	385	54.8	71.0	56.5	46.1	35.5		na
Indiana								
1993-94	721	50.4	62.1	50.4	41.0	30.8		28.3
1994-95	726	52.3	64.9	52.6	42.5	31.6		29.2
1995-96	701	55.3	67.9	55.2	44.5	35.3		29.8
1996-97	729	54.0	67.2	54.7	43.0	32.5		32.9
1997-98	742	54.4	71.2	56.4	44.0	29.5		29.5
1998-99	763	52.1	67.5	54.1	41.2	31.8		28.2
Kutztown								
1993-94	367	50.9	64.5	51.9	41.3	30.6		72.1
1994-95	373	52.6	67.1	54.7	42.2	30.3		73.4
1995-96	371	55.0	70.6	56.6	43.9	31.2		57.7
1996-97	368	54.6	71.1	55.9	43.2	31.4		84.6
1997-98	374	55.0	72.0	57.9	44.0	32.1		112.8
1998-99	371	56.6	74.6	59.7	44.4	32.5		na
Lock Haven								
1993-94	185	49.3	65.5	53.4	42.4	35.0		0
1994-95	183	51.4	67.8	55.6	43.5	35.5		11.2
1995-96	181	52.9	68.9	59.1	43.2	36.0		36.0
1996-97	185	51.5	68.4	57.5	44.2	31.2		37.8
1997-98	194	50.0	74.0	55.8	44.8	27.9		na
1998-99	183	52.5	72.1	58.3	44.8	33.2		na
Mansfield								
1993-94	181	49.1	64.4	52.0	41.5	29.5		na
1994-95	184	51.4	67.7	55.0	44.1	30.0		na
1995-96	177	54.6	70.6	57.5	45.2	30.3		na
1996-97	175	54.8	70.7	55.3	45.2	30.9		na
1997-98	171	51.7	68.5	51.1	41.7	28.1		na
1998-99	172	54.3	70.1	58.0	45.1	26.3		94.4
Millersville								
1993-94	361	50.8	64.6	52.7	41.9	27.3		na
1994-95	394	50.9	63.8	53.4	41.5	28.7		na
1995-96	407	51.7	65.9	53.7	41.6	29.8		na
1996-97	397	52.2	66.5	54.2	41.3	29.8		na
1997-98	406	52.7	67.4	55.5	42.4	29.8		na
1998-99	406	53.7	70.0	57.1	43.3	30.9		na
Shippensburg								
1993-94	304	54.1	64.3	52.7	41.5	31.4		na
1994-95	307	55.9	67.8	55.4	42.4	31.6		na
1995-96	309	57.6	70.1	58.3	44.2	32.4		na
1996-97	308	56.8	69.7	57.1	44.6	33.4		na
1997-98	308	56.2	71.6	58.5	43.8	25.6		0
1998-99	300	57.4	73.2	60.9	46.0	28.8		na
Slippery Rock								
1993-94	381	49.7	61.7	49.0	40.5	31.8		6.8
1994-95	380	52.8	64.9	51.9	42.7	35.3		92.2
1995-96	371	54.5	67.1	54.7	44.2	36.0		0
1996-97	360	56.5	70.3	57.7	45.5	36.7		na
1997-98	358	57.1	68.8	60.6	47.1	38.9		0
1998-99	352	57.7	71.6	56.7	49.1	40.3		na
West Chester								
1993-94	571	49.4	66.0	54.4	43.5	28.9		13.3
1994-95	560	49.0	64.4	54.7	43.1	29.4		28.4
1995-96	577	50.0	67.1	55.1	44.3	30.1		34.4
1996-97	575	49.4	67.0	55.0	43.8	29.7		35.5
1997-98	591	49.9	68.0	55.8	45.4	29.7		33.0
1998-99	610	50.3	69.7	57.3	45.9	30.2		36.9

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 of 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. FTE instructional faculty and average instructional salaries reflect a correction in the computational method used for determining full-time equivalent instructional faculty.

na. Not applicable.

SOURCE: Data provided by the individual universities, 1994 to 1999.

Historical Table 6

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT BY ACADEMIC DIVISION AND LEVEL¹
1993-94 to 1998-99

University	Lower division						Upper division						Total undergraduate						Master's					
	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
State-related																								
Lincoln	\$1,843	\$2,028	\$1,910	\$1,773	\$1,773	\$2,098	\$3,005	\$3,268	\$3,573	\$3,865	\$3,738	\$3,381	\$2,146	\$2,367	\$2,323	\$2,214	\$2,205	\$2,395	\$1,698	\$1,928	\$1,893	\$1,857	\$1,767	\$1,820
Penn State	1,439	1,488	1,454	1,456	1,519	1,590	2,518	2,600	2,691	2,731	2,816	2,947	1,844	1,895	1,881	1,892	1,995	2,107	3,791	4,156	4,218	4,532	5,048	4,888
Pittsburgh	1,536	1,567	1,709	1,686	1,724	1,628	2,856	3,025	2,964	3,124	3,359	3,109	1,985	2,063	2,132	2,154	2,237	2,093	4,461	4,769	5,213	5,126	5,287	5,229
Temple	1,510	1,656	1,733	1,906	1,939	2,002	2,258	2,470	2,533	2,605	2,603	2,759	1,902	2,079	2,155	2,284	2,307	2,427	2,862	3,198	3,392	3,347	3,280	3,666
Total	1,479	1,540	1,556	1,569	1,622	1,655	2,520	2,653	2,709	2,780	2,864	2,931	1,890	1,973	1,990	2,019	2,100	2,157	3,759	4,096	4,336	4,379	4,556	4,563
State-owned																								
Bloomsburg	2,119	2,243	2,298	2,215	2,221	2,284	3,385	3,747	4,069	4,120	4,226	4,162	2,518	2,717	2,843	2,754	2,798	2,834	4,188	3,763	4,062	4,227	4,688	4,283
California	2,000	2,041	2,243	2,235	2,207	2,199	3,365	3,488	3,872	3,571	3,626	3,979	2,426	2,491	2,713	2,685	2,660	2,768	3,580	3,422	3,353	3,613	3,312	3,835
Cheyney	2,725	3,206	3,349	3,382	3,674	nd	4,639	5,172	5,977	5,285	6,165	nd	3,230	3,776	4,057	3,941	4,388	nd	2,489	2,892	3,036	3,319	2,659	nd
Clarion	2,309	2,308	2,351	2,276	2,259	2,386	4,072	4,610	4,760	4,761	4,769	4,846	2,843	2,997	3,062	2,966	2,961	3,054	4,038	5,347	4,907	5,003	5,496	5,374
East Stroudsburg	2,162	2,251	2,438	2,254	2,300	2,344	3,825	3,963	4,305	4,241	3,972	4,188	2,661	2,760	2,937	2,835	2,789	2,899	2,534	2,649	3,066	2,755	2,729	2,589
Edinboro	2,058	2,288	2,354	2,361	2,453	2,556	3,833	4,001	4,113	3,990	4,176	4,196	2,613	2,826	2,934	2,920	3,044	3,121	4,485	4,508	3,999	4,776	4,822	5,004
Indiana	1,919	1,959	2,036	2,015	2,062	2,032	3,623	4,134	4,373	4,419	4,535	4,422	2,489	2,667	2,763	2,763	2,832	2,786	5,213	5,808	5,793	6,160	6,023	5,963
Kutztown	1,954	1,972	2,136	2,017	2,056	2,081	3,924	4,250	4,473	4,508	4,566	4,616	2,655	2,747	2,937	2,876	2,910	2,951	3,851	4,210	4,219	4,302	4,096	4,129
Lock Haven	2,019	2,131	2,335	2,320	2,049	2,144	3,846	4,054	4,238	3,915	4,638	3,762	2,568	2,719	2,924	2,814	2,847	2,681	12,262	5,611	13,512	6,311	2,496	3,228
Mansfield	1,811	2,164	2,243	2,235	2,170	2,520	4,547	4,940	5,153	5,004	4,717	5,011	2,821	3,222	3,385	3,338	3,158	3,490	3,829	4,148	4,610	4,508	4,005	3,637
Millersville	2,429	2,554	2,591	2,695	2,776	2,841	3,341	3,548	3,732	3,633	3,661	3,766	2,732	2,912	3,010	3,036	3,103	3,175	3,397	3,545	3,272	2,947	2,853	3,138
Shippensburg	2,243	2,277	2,358	2,353	2,263	2,290	3,894	4,076	4,305	3,937	3,984	3,788	2,705	2,788	2,899	2,784	2,758	2,738	3,333	3,929	3,759	3,956	3,759	3,817
Slippery Rock ²	2,144	2,385	2,380	2,478	2,482	2,499	3,764	3,987	4,120	4,199	4,359	4,418	2,626	2,854	2,897	2,998	3,044	3,068	2,824	2,973	3,244	3,341	4,746	4,653
West Chester	2,319	2,315	2,426	2,349	2,291	2,314	3,433	3,551	3,741	3,660	3,872	3,864	2,723	2,756	2,885	2,793	2,799	2,808	4,484	4,099	4,228	4,128	4,119	4,260
Total ³	2,127	2,225	2,321	2,290	2,289	2,310	3,712	3,992	4,218	4,139	4,241	4,207	2,638	2,794	2,922	2,879	2,907	2,914	3,797	3,952	3,956	4,074	4,039	4,156
All universities ³	1,796	1,872	1,917	1,906	1,936	1,960	3,009	3,204	3,325	3,337	3,411	3,424	2,234	2,349	2,409	2,403	2,459	2,488	3,773	4,045	4,198	4,270	4,370	4,415

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

2. The master's level includes the doctor's level prior to 1997-98.

3. No data for Cheyney University for 1998-99.

nd. No data.

SOURCE: Data provided by the individual universities, 1994 to 1999.

Historical Table 7

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER STUDENT CREDIT HOUR BY ACADEMIC DIVISION AND LEVEL¹
1993-94 to 1998-99

University	Lower division						Upper division						Total undergraduate						Master's							
	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99		
State-related																										
Lincoln	\$61	\$68	\$64	\$59	\$59	\$70	\$100	\$109	\$119	\$129	\$125	\$113	\$72	\$79	\$77	\$74	\$74	\$80	\$71	\$80	\$79	\$77	\$74	\$76	\$76	
Penn State	48	50	48	49	51	53	84	87	90	91	94	98	61	63	63	63	66	70	158	173	176	189	210	204	204	
Pittsburgh	51	52	57	56	57	54	95	101	99	104	112	104	66	69	71	72	75	70	186	199	217	214	220	218	218	
Temple	50	55	58	64	65	67	75	82	84	87	87	92	64	69	72	76	77	81	119	133	141	139	137	153	153	
Total	49	51	52	52	54	55	84	88	90	93	95	98	63	66	66	67	70	72	157	171	181	182	190	190	190	
State-owned																										
Bloomsburg	71	75	77	74	74	76	113	125	136	137	141	139	84	91	95	92	93	94	174	157	169	176	195	178	178	
California	67	68	75	74	74	73	112	116	129	119	121	133	81	83	90	90	89	92	149	143	140	151	138	160	160	
Cheyney	91	107	112	113	122	nd	155	172	199	176	206	nd	108	126	135	131	146	nd	104	121	126	138	111	nd	nd	
Clarion	77	77	78	76	75	80	136	154	159	159	159	162	95	100	102	99	99	102	168	223	204	208	229	224	224	
East Stroudsburg	72	75	81	75	77	78	127	132	144	141	132	140	89	92	98	94	93	97	106	110	128	115	114	108	108	
Edinboro	69	76	78	79	82	85	128	133	137	133	139	140	87	94	98	97	101	104	187	188	167	199	201	209	209	
Indiana	64	65	68	67	69	68	121	138	146	147	151	147	83	89	92	92	94	93	217	242	241	257	251	248	248	
Kutztown	65	66	71	67	69	69	131	142	149	150	152	154	89	92	98	96	97	98	160	175	176	179	171	172	172	
Lock Haven	67	71	78	77	68	71	128	135	141	130	155	125	86	91	97	94	95	89	511	234	563	263	104	135	135	
Mansfield	60	72	75	74	72	84	152	165	172	167	157	167	94	107	113	111	105	116	160	173	192	188	167	152	152	
Millersville	81	85	86	90	93	95	111	118	124	121	122	126	91	97	100	101	103	106	142	148	136	123	119	131	131	
Shippensburg	75	76	79	78	75	76	130	136	143	131	133	126	90	93	97	93	92	91	139	164	157	165	157	159	159	
Slippery Rock ²	71	80	79	83	83	83	125	133	137	140	145	147	88	95	97	100	101	102	118	124	135	139	198	194	194	
West Chester	77	77	81	78	76	77	114	118	125	122	129	129	91	92	96	93	93	94	187	171	176	172	172	178	178	
Total ³	71	74	77	76	76	77	124	133	141	138	141	140	88	93	97	96	97	97	158	165	165	170	168	173	173	
All universities ³	60	62	64	64	65	65	100	107	111	111	114	114	74	78	80	80	82	83	157	169	175	178	182	184	184	

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

2. The master's level includes the doctor's level prior to 1997-98.

3. No data for Cheyney University for 1998-99.

nd. No data.

SOURCE: Data provided by the individual universities, 1994 to 1999.

Historical Table 8

AVERAGE CLASS SIZES IN CLASSROOM INSTRUCTION BY ACADEMIC DIVISION AND LEVEL¹
1993-94 to 1998-99

University	Lower division						Upper division						Total undergraduate						Master's					
	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
State-related																								
Lincoln	21	20	21	23	22	20	14	13	13	12	12	13	19	18	18	19	19	18	16	14	15	15	15	14
Penn State	30	30	31	30	31	31	27	26	26	26	27	27	29	29	29	29	29	29	14	14	14	14	14	15
Pittsburgh	29	29	29	29	30	31	26	24	24	23	22	23	28	27	27	27	27	28	18	18	17	18	18	17
Temple	27	26	28	26	26	25	23	22	23	22	22	22	25	24	25	24	24	24	16	15	15	15	14	14
Total	29	29	30	29	29	30	25	24	24	24	24	25	28	27	27	27	27	28	16	16	16	16	16	15
State-owned																								
Bloomsburg ²	23	23	23	23	24	27	17	16	15	15	15	19	21	20	20	20	20	24	10	11	11	11	9	12
California	31	31	29	30	29	29	19	18	17	17	17	16	26	25	24	24	24	23	13	14	14	13	14	12
Cheyney	22	19	19	18	17	nd	12	12	11	11	11	nd	18	16	16	15	15	nd	17	15	14	12	16	nd
Clarion	32	32	33	33	33	33	17	15	15	15	14	15	25	24	24	25	24	25	14	11	12	11	10	11
East Stroudsburg	27	28	28	29	29	28	18	18	19	18	19	18	24	24	24	25	24	24	18	19	17	16	16	17
Edinboro	26	26	26	25	25	24	17	17	17	17	17	17	23	22	23	22	22	21	9	10	10	9	9	9
Indiana	29	29	29	28	28	29	16	15	14	14	13	13	23	22	22	21	21	21	9	10	10	8	8	8
Kutztown	28	29	28	30	29	29	16	15	15	15	16	16	22	22	22	23	22	22	13	12	13	13	13	14
Lock Haven	29	28	28	30	30	29	13	17	20	22	18	21	21	24	25	27	25	26	3	15	a	8	9	12
Mansfield ²	28	26	26	26	26	28	9	8	9	8	9	17	16	14	15	14	15	23	8	8	8	7	8	12
Millersville	25	25	26	25	25	25	19	19	19	20	20	20	22	23	23	23	23	23	14	13	14	16	17	15
Shippensburg	28	28	28	28	29	29	16	17	16	20	21	22	23	23	23	25	26	27	15	14	15	15	14	14
Slippery Rock ³	31	30	31	31	31	31	16	16	16	16	16	15	24	24	24	24	24	24	17	18	16	12	12	13
West Chester	23	23	24	24	24	24	15	14	14	14	14	14	19	19	19	20	20	20	10	10	11	11	11	11
Total ⁴	27	27	27	27	27	28	16	15	15	15	15	16	22	22	22	22	22	23	12	12	12	12	12	12
All universities ⁴	28	28	28	28	28	29	20	20	19	19	19	20	25	24	24	24	24	25	14	14	14	14	14	14

1. Average class size for each level is calculated by dividing total classroom student credit hours by total classroom course (assigned) credits.
 2. Adjustments made to classroom course (assigned) credits in 1998-99.
 3. The master's level includes the doctor's level prior to 1996-97.
 4. No data for Cheyney University for 1998-99.
 a. No classroom instruction.
 nd. No data.

SOURCE: Data provided by the individual universities, 1994 to 1999.

Historical Table 9

COMMONWEALTH INSTRUCTIONAL APPROPRIATIONS¹
1993-94 to 1998-99
(in millions)

University	1993- 94	1994- 95	1995- 96	1996- 97	1997- 98 ^a	1998- 99
State-related						
Lincoln	\$9.4	\$9.6	\$9.7	\$9.8	\$10.0	\$11.0
Penn State	198.5	207.6	214.7	214.7	219.0	229.0
Pittsburgh	123.4	127.6	130.9	132.2	134.9	140.8
Temple	131.6	134.5	137.3	139.0	141.8	147.9
Total	462.9	479.3	492.6	495.7	505.7	528.7
State-owned						
Bloomsburg	28.5	29.6	29.9	29.8	30.5	31.7
California	24.5	25.4	27.6	27.5	27.9	29.0
Cheyney	12.5	12.7	12.9	13.0	13.2	13.8
Clarion	25.8	26.8	28.5	28.3	28.7	29.9
East Stroudsburg	20.6	21.4	20.3	20.3	21.1	23.0
Edinboro	26.6	27.6	28.8	28.9	29.7	31.3
Indiana	51.7	53.7	56.8	56.5	57.2	58.7
Kutztown	27.2	28.3	28.9	28.7	29.3	30.5
Lock Haven	15.5	16.1	16.8	16.8	17.5	18.9
Mansfield	15.0	15.6	15.9	16.1	16.6	17.7
Millersville	28.7	29.8	31.1	30.9	31.3	32.4
Shippensburg	25.0	25.9	26.7	26.6	27.3	29.0
Slippery Rock	28.4	29.6	30.8	30.7	31.5	32.5
West Chester	39.3	40.9	38.8	38.6	39.1	40.5
Total²	369.3	383.4	393.8	392.7	400.9	418.9
All universities²	832.2	862.7	886.4	888.4	906.6	947.6

1. Instructional appropriations include educational and general appropriations and for 1993-94 to 1995-96, Tuition Challenge Grants. Excludes medical school data.

2. Excludes amount of instructional appropriation allocated to Office of the Chancellor and the System Reserve of the State System of Higher Education.

a. Excludes funding for Special Projects.

SOURCE: *Governor's Executive Budget*, 1995-96 to 1999-2000; data provided by the individual State-related universities and the State System of Higher Education, Commonwealth of Pennsylvania, 1994 to 1999.

Historical Table 10

ACADEMIC YEAR TUITION AND REQUIRED FEES FOR FULL-TIME STUDENTS
BY ACADEMIC LEVEL AND RESIDENCE
1993-94 to 1998-99

University	Undergraduate		Graduate ¹	
	In-State	Out-of-State	In-State	Out-of-State
State-related				
Lincoln				
1993-94	\$3,140	\$4,900	\$4,800	\$6,900
1994-95	3,495	5,618	4,893	7,633
1995-96	3,956	6,144	5,289	8,499
1996-97	4,180	6,490	5,580	8,940
1997-98	4,392	6,910	5,576	9,188
1998-99	4,595	7,210	5,830	9,580
Penn State				
Main Campus				
1993-94	4,822	10,800	5,386	10,806
1994-95	5,036	10,724	5,624	11,396
1995-96	5,258	11,310	5,872	12,018
1996-97	5,624	11,964	6,268	12,706
1997-98	5,832	12,406	6,502	13,180
1998-99	6,092	12,908	6,786	13,712
Pittsburgh				
Main Campus				
1993-94	5,186	10,708	6,854	13,510
1994-95	5,416	11,240	7,150	14,172
1995-96	5,638	11,724	7,454	14,792
1996-97	5,870	12,230	7,770	15,440
1997-98	6,164	12,928	8,154	16,318
1998-99	6,424	13,458	8,498	16,988
Temple				
1993-94	5,226	9,802	6,068	8,132
1994-95	5,464	10,246	6,342	8,934
1995-96	5,514	10,296	6,656	9,368
1996-97	5,828	10,712	7,088	9,800
1997-98	6,150	11,032	7,672	10,576
1998-99	6,378	11,408	8,032	10,936
State-owned				
Bloomsburg				
1993-94	3,458	7,856	3,338	5,580
1994-95	3,694	8,452	3,574	6,032
1995-96	3,915	8,889	3,783	6,353
1996-97	4,162	9,360	4,020	6,706
1997-98	4,278	9,634	4,133	6,901
1998-99	4,278	9,634	4,133	6,901
California				
1993-94	3,760	8,158	3,608	5,850
1994-95	3,902	8,660	3,804	6,262
1995-96	4,136	9,110	4,038	6,608
1996-97	4,304	9,502	4,206	6,892
1997-98	4,475	9,831	4,377	7,145
1998-99	4,545	9,901	4,441	7,209
Cheyney				
1993-94	3,319	7,717	3,184	5,426
1994-95	3,591	8,349	3,411	5,869
1995-96	3,729	8,703	3,604	6,174
1996-97	3,922	9,120	3,748	6,434
1997-98	4,023	9,379	3,850	6,618
1998-99	4,023	9,379	3,850	6,618
Clarion				
1993-94	3,710	8,108	3,636	5,878
1994-95	3,879	8,637	3,799	6,257
1995-96	4,054	9,028	3,970	6,540
1996-97	4,268	9,466	4,144	6,830
1997-98	4,378	9,734	4,278	7,046
1998-99	4,569	8,905	4,469	7,237
East Stroudsburg				
1993-94	3,664	8,062	3,520	5,762
1994-95	3,844	8,602	3,690	6,148
1995-96	4,016	8,990	3,862	6,432
1996-97	4,195	9,393	4,041	6,727
1997-98	4,322	9,678	4,166	6,934
1998-99	4,314	9,670	4,168	6,936

Edinboro				
1993-94	3,531	7,929	3,531	5,773
1994-95	3,685	8,443	3,685	6,143
1995-96	3,924	8,898	3,924	6,694
1996-97	4,083	9,281	4,081	6,763
1997-98	4,193	9,549	4,366	7,134
1998-99	4,193	10,084	4,366	7,549
Indiana				
1993-94	3,539	7,937	3,455	5,697
1994-95	3,725	8,483	3,620	6,078
1995-96	3,891	8,865	3,787	6,357
1996-97	4,064	9,262	3,956	6,642
1997-98	4,204	9,560	4,093	6,861
1998-99	4,244	9,600	4,133	6,901
Kutztown				
1993-94	3,558	8,285	3,428	5,838
1994-95	3,699	8,535	3,569	6,105
1995-96	3,940	8,914	3,810	6,380
1996-97	4,138	9,336	3,968	6,654
1997-98	4,219	9,575	4,089	6,857
1998-99	4,251	9,607	4,111	6,879
Lock Haven				
1993-94	3,509	7,907	3,509	5,751
1994-95	3,662	8,896	3,662	6,366
1995-96	3,822	8,796	3,822	6,392
1996-97	3,988	9,186	3,988	6,674
1997-98	4,062	9,418	4,062	6,830
1998-99	4,071	7,427	4,071	6,939
Mansfield				
1993-94	3,440	7,838	3,300	5,542
1994-95	3,624	8,382	3,464	5,922
1995-96	3,804	8,778	3,624	6,194
1996-97	4,034	9,232	3,834	6,520
1997-98	4,354	9,710	3,944	6,712
1998-99	4,410	9,766	4,010	6,778
Millersville				
1993-94	3,750	8,148	3,750	5,992
1994-95	3,920	8,678	3,920	6,378
1995-96	4,100	9,074	4,100	6,670
1996-97	4,268	9,466	4,268	6,954
1997-98	4,400	9,756	4,400	7,168
1998-99	4,429	9,785	4,429	7,197
Shippensburg				
1993-94	3,710	8,108	3,550	5,792
1994-95	3,856	8,614	3,696	6,154
1995-96	4,010	8,984	3,850	6,420
1996-97	4,230	9,428	4,030	6,716
1997-98	4,344	9,700	4,144	6,912
1998-99	4,344	9,700	4,144	6,912
Slippery Rock				
1993-94	3,547	7,945	3,547	5,789
1994-95	3,836	8,594	3,836	6,294
1995-96	4,013	8,987	4,013	6,583
1996-97	4,179	9,377	4,179	6,748
1997-98	4,302	9,658	4,475	7,243
1998-99	4,311	9,667	4,485	7,667
West Chester				
1993-94	3,504	7,902	3,366	5,608
1994-95	3,646	8,404	3,528	5,986
1995-96	3,874	8,848	3,756	6,326
1996-97	4,032	9,230	3,914	6,600
1997-98	4,162	9,518	4,044	6,812
1998-99	4,248	9,604	4,128	6,896

1. Excludes first-professional level.

SOURCE: Pennsylvania Department of Education, *Colleges and Universities-Basic Student Charges*, 1993-94 to 1995-96; Pennsylvania Department of Education, *Colleges and Universities-Education Digest*, 1996-97 to 1998-99.

APPENDIX: MODEL OF FTE SALARY COST DETERMINATION

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

$$\begin{array}{r}
 \text{FTE} \\
 \text{Instructional} \\
 \text{faculty} \\
 \hline
 \text{salaries} \\
 \text{Student} \\
 \text{credit hours}
 \end{array}
 =
 \begin{array}{r}
 \text{Number of FTE} \\
 \hline
 \text{instructional faculty} \\
 \text{Number} \quad \text{Average} \\
 \text{of} \quad \times \quad \text{course} \\
 \text{courses} \quad \text{(assigned)} \\
 \quad \quad \quad \text{credit} \\
 \quad \quad \quad \text{value}
 \end{array}
 \times
 \begin{array}{r}
 \text{Average FTE instructional} \\
 \hline
 \text{faculty salary} \\
 \text{Average} \quad \text{Number} \\
 \text{class} \quad \times \quad \text{of classes} \\
 \text{(section)} \quad \text{(sections)} \\
 \text{size} \quad \quad \text{Number} \\
 \quad \quad \quad \text{of courses}
 \end{array}$$

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

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

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

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

This model serves as the basis for the regression analysis performed by the Commission staff (see page 4).

