

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

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Analysis of 1996-97 Data  
Reported Under 1996 Appropriations Acts  
and Public School Code

Staff Report  
General Assembly of the Commonwealth of Pennsylvania  
JOINT STATE GOVERNMENT COMMISSION  
108 Finance Building  
Harrisburg, Pennsylvania 17120  
February 1998

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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."

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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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The Joint State Government Commission was created by act of July 1, 1937 (P.L.2460, No.459) as amended, as a continuing agency for the development of facts and recommendations on all phases of government for the use of the General Assembly.

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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)

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\*Medical School not included in this report.

\*\*Not included in this report.

February 1998

TO THE MEMBERS OF THE GENERAL ASSEMBLY:

This year marks the twenty-fifth anniversary of the *Instructional Output and Faculty Salary Costs of the State-Related and State-Owned Universities*. First envisioned by the late Senator Richard A. Snyder of Lancaster County as a cooperative effort between the General Assembly, the Joint State Government Commission and the public universities, the report has matured to become a hallmark of accuracy in government reporting. Indeed, the report has become a benchmark for other states that are now attempting to build a database of the statistical and financial information of their public institutions of higher education. In many ways the report is unique as the sole compendium of various but nonetheless valuable data. Its analysis and presentation of data have been tested and are accepted without reservation after years of scrutiny. A painstaking review process ensures the accuracy and completeness of the data and their interpretation, typography, and citations in every report.

We commend the legislative and universities' staffs that have devoted considerable effort through the past twenty-five years' production of this report. With the continued helpful cooperation of the universities, the report will remain at the forefront of information about higher education.

Therefore, we take pride in the presentation of this valuable information and we thank all who make it possible.

Respectfully submitted,

Roger A. Madigan  
Chairman



## FOREWORD

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This 25th 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 by the Public School Code for the State-owned universities. These data include student credit hours and degrees, and faculty salaries and workweek activities. The report includes instructional outputs and instructional faculty salaries, but does not include noninstructional faculty salaries. Therefore, *average faculty salaries in the report cannot be compared to average faculty salaries from other sources*. In addition, since the data do not include nonsalary expenditures, the report does not summarize total instructional costs for the universities. Data on tuitions, Commonwealth instructional appropriations, and student aid from other sources supplement the university data.

Levels of data for 1996-97 and data trends for 1991-92 to 1996-97 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.



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## I. DATA HIGHLIGHTS

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1. In Fall 1996, a total of 568,222 full- and part-time students were enrolled in the 144 public and private colleges and universities in Pennsylvania. Of this total, 227,808 students (40 percent) were enrolled in the Commonwealth's public universities: 134,097 students (24 percent) in the 4 State-related universities, and 93,711 (16 percent) in the 14 State-owned universities. The main and branch campuses of Pennsylvania's public universities are listed on page iii. Compared to Fall 1995, overall student enrollments in all of Pennsylvania's colleges and universities, including the Commonwealth's public universities, decreased less than 1 percent.<sup>1</sup>
2. During the 1996-97 school year,<sup>2</sup> almost 6 million undergraduate and graduate student credit hours (SCH) were generated by the public universities. These SCH were the equivalent of 205,295 full-time students: 118,869 full-time equivalent (FTE) students (58 percent) for the State-related universities, and 86,426 (42 percent) for the State-owned universities.<sup>3</sup> (Table 1) FTE students at the State-related universities increased by 1 percent, but at the State-owned universities remained unchanged from the previous year. FTE students vary considerably by academic level at the individual universities. For Pittsburgh and Temple, almost three-quarters of the FTE students are undergraduates; both universities have first professional programs in dentistry and law. In contrast, the proportion of undergraduate FTE students is 84 percent for Lincoln, 90 percent for Penn State and 91

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<sup>1</sup>Pennsylvania Department of Education, *Colleges and Universities Education Digest, 1996-97*.

<sup>2</sup>Unless otherwise noted, all data in this report apply to the indicated school year, which includes the summer term preceding the academic year, plus the fall and spring terms of the academic year. For example, the 1996-97 school year includes the summer and fall terms of 1996 plus the spring term of 1997.

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

percent for the State-owned group.<sup>4</sup> (Table 2) Likewise, the public universities offer diverse programs to students. Most of these universities continue to have large programs in business and education, in addition to letters and the social sciences. The State-owned universities each have specialized program missions. (Tables 3A through 3E)<sup>5</sup>

3. During the 1996-97 school year, the public universities conferred 41,304 bachelor's and graduate degrees (not including medical degrees): 23,952 degrees (58 percent) by the State-related universities, and 17,352 (42 percent) by the State-owned universities. Total degrees for the State-related universities increased by 2 percent, but for the State-owned universities decreased by 1 percent, from the preceding year.<sup>6</sup> (Table 4)
4. Over the past five years (since 1991-92), Pennsylvania's population of 18- to 24-year-olds decreased by 14 percent, while FTE enrollments in the Commonwealth's public universities decreased by only 4 percent. The increase in FTE students in the public universities, relative to the population of traditional college-age residents, would appear to be attributable to a larger percentage of traditional students attending the public universities, plus an increase in the enrollment of nontraditional students.
5. In Fall 1996, 10,592 teaching and research faculty were *employed full-time* by Pennsylvania's public universities: 5,923 full-time faculty (56

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<sup>4</sup>Since 1993-94, Indiana University has reported separate data for the doctor's level (previously data for this level were combined with Indiana's master's level). Comparisons with previous years must take this change into account. In 1996-97, for the first time, Slippery Rock University reported data for the first-professional level; these data are combined with Slippery Rock's master's level in this report.

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

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

percent) by the State-related universities and 4,669 (44 percent) by the State-owned universities.<sup>7</sup> The overall workweek reported by these faculty averaged 54.1 hours: 53.0 total hours for the State-related universities, and 55.7 total hours for the State-owned universities. Hours spent in undergraduate and graduate classroom and individual instruction contact with students averaged 8.7 per week for the State-related group, and 11.6 per week for the State-owned group. (Table 5) Since 1991-92, average total workweek hours for the State-related universities have increased by 1.5 percent and average student contact hours by 6.1 percent; over the same years, the average total workweek and student contact hours at the State-owned universities remained nearly constant.

6. During the 1996-97 school year, the *full- and part-time instructional faculty employed* by the public universities were the equivalent of 11,810 full-time faculty: 6,959 FTE instructional faculty (59 percent) for the State-related universities, and 4,851 (41 percent) for the State-owned universities.<sup>8</sup> The combined FTE instructional faculty decreased by less than 1 percent from the previous year. The instructional salary for these faculty averaged \$45,200 and \$53,300 for the two public university groups, respectively.<sup>9</sup> The combined average instructional salary increased by 1 percent from the previous year.<sup>10</sup> The State-owned universities tend to utilize relatively more higher-ranked FTE faculty--professors and associate professors--in instruction than do the larger State-related universities. In contrast, Penn State, Pittsburgh and Temple provide a significant amount of instruction using instructors and nonranked faculty (largely graduate

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

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

<sup>9</sup>This report does not include the noninstructional salaries of instructional faculty members. Therefore, *average faculty salaries cannot be compared to other sources*.

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

teaching assistants); the lower instructional salaries of the nonranked faculty tend to lower the average instructional salary for the State-related group relative to the State-owned group. (Table 6)

7. Since 1991-92, the average instructional salary for the FTE instructional faculty has increased by about \$6,800 (18 percent) for the State-related universities, and about \$10,100 (23 percent) for the State-owned universities. The relative increase in average instructional salary for the State-owned group has tended to widen the gap in average instructional salaries between the two groups of FTE faculty.
8. During the 1996-97 school year, the ratio of FTE students to FTE instructional faculty averaged 17.1 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)
9. During the 1996-97 school year, the average instructional faculty salary costs per FTE student for the State-related group were: undergraduate level, \$2,019, and master's level, \$4,379. For the State-owned group the FTE instructional salary costs for these levels were \$2,879 and \$4,074, respectively. (Table 7) First professional FTE instructional salary costs averaged \$1,810 for Pittsburgh and \$3,996 for Temple; doctoral FTE instructional salary costs averaged \$11,747 for Penn State, \$12,111 for Pittsburgh, \$8,076 for Temple and \$6,267 for Indiana. Statistical analysis has shown that FTE instructional salary cost varies directly with FTE instructional faculty salaries, and inversely with both class (section) average sizes and the number of classes (sections) offered per course. Since 1991-92, undergraduate FTE instructional salary costs have increased by 25 percent for the State-related group, and by 30 percent for the State-owned group. FTE instructional salary costs also vary considerably by program area. (Table 8A through 8E)
10. Regression analysis applied to 1996-97 lower and upper division undergraduate FTE instructional salary cost, class size and instructional faculty salary data for the public universities indicates that the total cost savings to be expected from *decreasing* average FTE

instructional faculty salaries by \$1,000 at these universities would be almost \$10 million, and from *increasing* average class (section) sizes by one student would be over \$17 million.<sup>11</sup>

11. The average undergraduate class (section) size is 19 for Lincoln, 29 for Penn State, 27 for Pittsburgh, 24 for Temple, and 22 for the State-owned universities. Since 1991-92, average undergraduate class sizes have declined by about 7 percent for the State-related universities and by about 4 percent for the State-owned universities. (Table 9)
12. During the 1996-97 school year, the tuition and required fees for full-time in-State undergraduate students averaged \$5,376 for the State-related universities, and \$4,133 for the State-owned universities. These tuition and fees increased by 6 percent for the State-related universities and by 5 percent for the State-owned universities from the previous year. Lincoln's tuition and fees for nonresident full-time undergraduates exceeded those for residents by 55 percent, and for full-time graduate students by 60 percent. Penn State's tuition and fees for nonresident full-time undergraduates were 113 percent higher, and those for graduate students 103 percent higher than the tuition and fees for residents. Pittsburgh's nonresident tuition and fees were approximately double those for residents for both levels. For Temple, the out-of-state premium was almost 84 percent for full-time undergraduates and 38 percent for full-time graduate students. For the State-owned group, tuition and fees for nonresident undergraduates exceeded those for residents by 126 percent; nonresident graduate students paid 66 percent more than Pennsylvania residents. (Table 10)
13. For fiscal year 1996-97, the public universities collected almost 1.3 billion dollars in tuition and fee revenues. These revenues per FTE student averaged \$5,710 for Lincoln, \$7,190 for Penn State, \$8,090 for Pittsburgh, \$7,390 for Temple, and \$4,450 for the State-owned universities. Since 1991-92, per student revenues for the

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

State-related universities have grown by 32 percent and for the State-owned universities by 38 percent. (Table 11)

14. For fiscal year 1996-97, the Commonwealth's instructional appropriations to the public universities totaled \$888.4 million: \$495.7 million (56 percent) to the State-related universities and \$392.7 million (44 percent) to the State-owned universities.<sup>12</sup> <sup>13</sup> 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. Total instructional appropriations remained virtually unchanged for both the State-related and the State-owned universities from the previous year. The average appropriation per FTE student was \$4,170 for the State-related group and \$4,540 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 almost \$106 million went to students at the public universities through various PHEAA grant and matching-fund programs.<sup>14</sup>
15. For 1996-97 total instructional revenues per FTE student--tuition and fees plus instructional appropriations--averaged \$11,590 for the State-related universities and \$8,990 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 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.

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<sup>12</sup>The Commonwealth instructional appropriation to the State System of Higher Education does *not* include amounts allocated to the Office of the Chancellor, McKeever Center, Faculty Professional Development, University Center and System Reserve.

<sup>13</sup>In 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 had been separate line items in the General Fund Budget.

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

16. During the 1996-97 school year, on an FTE student basis, the ratio of Commonwealth instructional appropriations to tuition and fee revenues *plus* Commonwealth instructional appropriations averaged 36 percent for the State-related university group, and 51 percent for the State-owned university group. (Table 13) Since 1991-92, 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 percentage of total instructional revenues from Commonwealth appropriations has *decreased*, causing the student share of instructional cost to *increase* for all of the public universities.



## **II. CURRENT YEAR DATA**

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Table 1

FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC LEVEL<sup>1</sup>  
 1996-97, CHANGE FROM 1995-96 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1991-92 to 1996-97)

University	Total				Undergraduate				Graduate <sup>2</sup>			
	FTE students	One-year change	Percentage change		FTE students	One-year change	Percentage change		FTE students	One-year change	Percentage change	
			One-year	Five-year average			One-year	Five-year average			One-year	Five-year average
State-related												
Lincoln	1,865	319	21%	4%	1,573	256	19%	4%	292	63	28%	9%
Penn State	65,811	1,674	3	1	59,317	1,716	3	1	6,494	-42	-1	1
Pittsburgh	27,738	173	1	-1	19,929	-111	-1	-2	7,809	284	4	1
Temple	23,455	-944	-4	-2	16,939	-772	-4	-3	6,516	-172	-3	-1
Total	118,869	1,222	1	a	97,758	1,089	1	-1	21,111	133	1	a
State-owned												
Bloomsburg	7,225	199	3	-1	6,793	211	3	a	432	-12	-3	-1
California	5,226	-321	-6	-3	4,473	-217	-5	-4	753	-104	-12	3
Cheyney	1,293	-10	-1	-1	1,079	-20	-2	-2	214	10	5	a
Clarion	5,605	71	1	-1	5,300	66	1	-1	305	5	2	-3
East Stroudsburg	5,325	62	1	a	4,704	107	2	a	621	-45	-7	-1
Edinboro	6,678	-162	-2	-3	6,258	-135	-2	-3	420	-27	-6	a
Indiana	12,859	95	1	-2	11,739	10	a	-2	1,120	85	8	a
Kutztown	6,791	33	a	-1	6,383	57	1	-1	408	-24	-6	a
Lock Haven	3,283	40	1	-2	3,223	-13	a	-2	60	53	757	b
Mansfield	2,801	-9	a	-2	2,653	-5	a	-2	148	-4	-3	-4
Millersville	6,842	-78	-1	a	6,046	-54	-1	a	796	-24	-3	a
Shippensburg	6,057	68	1	a	5,519	60	1	-1	538	8	2	1
Slippery Rock	6,717	-191	-3	-2	6,130	-187	-3	-2	587	-4	-1	-1
West Chester	9,724	146	2	-1	8,765	112	1	-1	959	34	4	-2
Total	86,426	-57	a	-1	79,065	-8	a	-2	7,361	-49	-1	a
All universities	205,295	1,165	1	-1	176,823	1,081	1	-1	28,472	84	a	a

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

2. 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.

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

SOURCE: Data provided by the individual universities, 1992 to 1997.

Table 2

FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>  
1996-97, CHANGE FROM 1995-96 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1991-92 to 1996-97)

University	Lower division			Upper division			Master's			First professional <sup>2</sup> and doctor's		
	FTE students	Percentage change		FTE students	Percentage change		FTE students	Percentage change		FTE students	Percentage change	
		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average
State-related												
Lincoln	1,242	25%	4%	331	1%	2%	292	28%	9%	na	na	na
Penn State	39,038	4	2	20,279	2	-1	3,717	-1	2	2,777	a	-1%
Pittsburgh	13,440	1	-2	6,489	-4	-3	5,110	2	a	2,699	8%	3
Temple	7,774	-7	-3	9,165	-2	-2	3,534	-2	a	2,982	-4	-1
Total	61,494	2	a	36,264	a	-1	12,653	a	1	8,458	1	a
State-owned												
Bloomsburg	4,871	7	a	1,922	-5	-2	432	-3	-1	na	na	na
California	2,965	-11	-5	1,508	11	-3	753	-12	3	na	na	na
Cheyney	762	-5	-2	317	7	-1	214	5	a	na	na	na
Clarion	3,827	4	-1	1,473	-5	-3	305	2	-3	na	na	na
East Stroudsburg	3,330	-1	a	1,374	12	2	621	-7	-1	na	na	na
Edinboro	4,112	-4	-4	2,146	2	a	420	-6	a	na	na	na
Indiana	8,086	a	-2	3,653	a	-3	833	2	-5	287	29	b
Kutztown	4,183	1	-1	2,200	1	-1	408	-6	a	na	na	na
Lock Haven	2,224	a	-3	999	a	a	60	757	c	na	na	na
Mansfield	1,596	-1	-5	1,057	1	4	148	-3	-4	na	na	na
Millersville	3,848	a	-2	2,198	-2	3	796	-3	a	na	na	na
Shippensburg	4,017	2	a	1,502	-1	-1	538	2	1	na	na	na
Slippery Rock	4,278	-4	-2	1,852	-1	-1	587	-1	-1	d	na	na
West Chester	5,800	3	-1	2,965	-2	-1	959	4	-2	na	na	na
Total	53,899	a	-2	25,166	a	-1	7,074	-2	-1	287	29	na
All universities	115,393	1	-1	61,430	a	-1	19,727	a	a	8,745	2	a

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

2. Excludes medical school data.

a. Rounds to less than 1 percent.

b. The doctor's level was included in master's level prior to 1993-94.

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

d. Included in master's level.

na. Not applicable.

SOURCE: Data provided by the individual universities, 1992 to 1997.

Table 3A

LINCOLN UNIVERSITY  
NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS<sup>1</sup>  
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION  
1996-97

CIP Classification	Total	Percentage of total	Undergraduate				Graduate <sup>2</sup>	Percentage of total
			Lower division	Percentage of total	Upper division	Percentage of total		
Agriculture	--	--	--	--	--	--	--	--
Architecture and environmental design	--	--	--	--	--	--	--	--
Area and ethnic studies	--	--	--	--	--	--	--	--
Business	83	4%	34	3%	49	15%	--	--
Communications	--	--	--	--	--	--	--	--
Computer and information sciences	43	2	35	3	8	2	--	--
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	367	20	281	23	72	22	14	5%
Engineering	--	--	--	--	--	--	--	--
Foreign languages	90	5	75	6	15	5	--	--
Health	--	--	--	--	--	--	--	--
Home economics	--	--	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--	--	--
Law	--	--	--	--	--	--	--	--
Letters	229	12	210	17	19	6	--	--
Liberal/general studies	--	--	--	--	--	--	--	--
Library and archival sciences	--	--	--	--	--	--	--	--
Life sciences	135	7	119	10	16	5	--	--
Mathematics	155	8	148	12	7	2	--	--
Military sciences	--	--	--	--	--	--	--	--
Multi/interdisciplinary studies	6	a	4	a	2	1	--	--
Parks and recreation	--	--	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--	--	--
Philosophy, religion and theology	63	3	53	4	10	3	--	--
Physical sciences	113	6	85	7	28	8	--	--
Psychology 77	4	53	4	24	7	--	--	--
Public affairs and protective services	262	14	--	--	--	--	262	90
Social sciences	245	13	145	12	83	25	17	6
Trade and industrial	--	--	--	--	--	--	--	--
Visual and performing arts	--	--	--	--	--	--	--	--
Other	--	--	--	--	--	--	--	--
Total <sup>3</sup>	1,865	100	1,242	100	331	100	292	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, 1997; 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 STUDENTS<sup>1</sup>  
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION  
1996-97

CIP Classification	Total	Percentage of total	Undergraduate				Graduate <sup>2</sup>	Percentage of total
			Lower division	Percentage of total	Upper division	Percentage of total		
Agriculture	1,154	2%	294	1%	742	4%	118	2%
Architecture and environmental design	543	1	335	1	193	1	15	a
Area and ethnic studies	728	1	545	1	158	1	25	a
Business	6,922	11	2,239	6	3,704	18	979	15
Communications	1,036	2	443	1	563	3	30	a
Computer and information sciences	1,734	3	1,280	3	284	1	170	3
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	4,392	7	1,250	3	1,442	7	1,700	26
Engineering	4,863	7	1,258	3	2,609	13	996	15
Foreign languages	2,301	3	1,797	5	394	2	110	2
Health	1,610	2	511	1	908	4	191	3
Home economics	1,754	3	915	2	735	4	104	2
Industrial arts	--	--	--	--	--	--	--	--
Law	--	--	--	--	--	--	--	--
Letters	6,244	9	4,386	11	1,574	8	284	4
Liberal/general studies	118	a	14	a	92	a	12	a
Library and archival sciences	23	a	18	a	5	a	--	--
Life sciences	3,542	5	2,552	7	774	4	216	3
Mathematics	6,011	9	5,331	14	522	3	158	2
Military sciences	101	a	61	a	40	a	--	--
Multi/interdisciplinary studies	2,192	3	1,130	3	944	5	118	2
Parks and recreation	336	1	50	a	260	1	26	a
Personal and social development	--	--	--	--	--	--	--	--
Philosophy, religion and theology	1,243	2	1,096	3	109	1	38	1
Physical sciences	5,323	8	4,038	10	802	4	483	7
Psychology 2,276	3	1,374	4	695	3	207	3	
Public affairs and protective services	779	1	177	a	509	3	93	1
Social sciences	6,796	10	4,945	13	1,536	8	315	5
Trade and industrial	289	a	289	1	--	--	--	--
Visual and performing arts	3,503	5	2,712	7	685	3	106	2
Other	--	--	--	--	--	--	--	--
Total <sup>3</sup>	65,811	100	39,038	100	20,279	100	6,494	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, 1997; 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 STUDENTS<sup>1</sup>  
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION  
1996-97

CIP Classification	Total	Percentage of total	Undergraduate				Graduate <sup>2</sup>	Percentage of total
			Lower division	Percentage of total	Upper division	Percentage of total		
Agriculture	--	--	--	--	--	--	--	--
Architecture and environmental design	--	--	--	--	--	--	--	--
Area and ethnic studies	125	a	83	1%	41	1%	1	a
Business	1,973	7%	313	2	542	8	1,118	14%
Communications	104	a	16	a	21	a	67	1
Computer and information sciences	1,019	4	613	5	187	3	219	3
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	1,946	7	334	2	395	6	1,217	16
Engineering	1,440	5	367	3	585	9	488	6
Foreign languages	1,429	5	987	7	338	5	104	1
Health	2,896	10	227	2	933	14	1,736	22
Home economics	56	a	--	--	52	1	4	a
Industrial arts	--	--	--	--	--	--	--	--
Law	876	3	--	--	--	--	876	11
Letters	2,824	10	1,878	14	749	12	197	3
Liberal/general studies	--	--	--	--	--	--	--	--
Library and archival sciences	213	1	--	--	5	a	208	3
Life sciences	1,127	4	712	5	337	5	78	1
Mathematics	1,619	6	1,350	10	195	3	74	1
Military sciences	11	a	6	a	5	a	--	--
Multi/interdisciplinary studies	157	1	142	1	11	a	4	a
Parks and recreation	--	--	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--	--	--
Philosophy, religion and theology	878	3	655	5	153	2	70	1
Physical sciences	1,963	7	1,604	12	130	2	229	3
Psychology 1,376	5	1,003	7	280	4	93	1	
Public affairs and protective services	1,366	5	115	1	463	7	788	10
Social sciences	3,254	12	2,162	16	907	14	185	2
Trade and industrial	--	--	--	--	--	--	--	--
Visual and performing arts	1,090	4	871	6	162	2	57	1
Other	--	--	--	--	--	--	--	--
Total <sup>3</sup>	27,738	100	13,440	100	6,489	100	7,809	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, 1997; 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 STUDENTS<sup>1</sup>  
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION  
1996-97

CIP Classification	Total	Percentage of total	Undergraduate				Graduate <sup>2</sup>	Percentage of total
			Lower division	Percentage of total	Upper division	Percentage of total		
Agriculture	52	a	26	a	25	a	1	a
Architecture and environmental design	236	1%	73	1%	161	2%	2 a	
Area and ethnic studies	368	2	167	2	125	1	76	1%
Business	2,222	9	553	7	1,065	12	604	9
Communications	475	2	158	2	233	3	84	1
Computer and information sciences	461	2	121	2	224	2	116	2
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	2,296	10	483	6	1,055	12	758	12
Engineering	514	2	137	2	330	4	47	1
Foreign languages	675	3	335	4	302	3	38	1
Health	2,554	11	79	1	911	10	1,564	24
Home economics	--	--	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--	--	--
Law	1,619	7	141	2	134	1	1,344	21
Letters	1,448	6	941	12	449	5	58	1
Liberal/general studies	445	2	296	4	148	2	1	a
Library and archival sciences	--	--	--	--	--	--	--	--
Life sciences	475	2	197	3	237	3	41	1
Mathematics	1,260	5	795	10	369	4	96	1
Military sciences	5	a	2	a	3	a	--	--
Multi/interdisciplinary studies	--	--	--	--	--	--	--	--
Parks and recreation	187	1	37	a	108	1	42	1
Personal and social development	--	--	--	--	--	--	--	--
Philosophy, religion and theology	413	2	191	2	171	2	51	1
Physical sciences	1,016	4	539	7	407	4	70	1
Psychology 1,181	5	331	4	403	4	447	7	
Public affairs and protective services	1,027	4	171	2	377	4	479	7
Social sciences	2,652	11	1,222	16	1,133	12	297	5
Trade and industrial	--	--	--	--	--	--	--	--
Visual and performing arts	1,877	8	780	10	795	9	302	5
Other	--	--	--	--	--	--	--	--
Total <sup>3</sup>	23,455	100	7,774	100	9,165	100	6,516	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, 1997; CIP classifications - U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs*, 1991.

Table 3E

STATE-OWNED UNIVERSITIES  
NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS<sup>1</sup>  
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION  
1996-97

CIP Classification	Total	Percentage of total	Undergraduate				Graduate <sup>2</sup>	Percentage of total
			Lower division	Percentage of total	Upper division	Percentage of total		
Agriculture	89	a	85	a	3	a	1	a
Architecture and environmental design	18	a	4	a	13	a	1	a
Area and ethnic studies	351	a	185	a	146	1%	20 a	
Business	7,038	8%	2,898	5%	3,639	14	501	7%
Communications	2,307	3	1,272	2	920	4	115	2
Computer and information sciences	1,972	2	1,483	3	389	2	100	1
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	15,952	18	5,114	9	7,148	28	3,690	50
Engineering	224	a	79	a	113	a	32	a
Foreign languages	2,292	3	1,934	4	310	1	48	1
Health	2,825	3	818	2	1,465	6	542	7
Home economics	494	1	256	a	222	1	16	a
Industrial arts	518	1	176	a	185	1	157	2
Law	129	a	63	a	51	a	15	a
Letters	8,565	10	6,759	13	1,485	6	321	4
Liberal/general studies	175	a	168	a	7	a	--	--
Library and archival sciences	159	a	30	a	24	a	105	1
Life sciences	4,041	5	3,079	6	792	3	170	2
Mathematics	5,311	6	4,674	9	502	2	135	2
Military sciences	131	a	104	a	27	a	--	--
Multi/interdisciplinary studies	257	a	180	a	55	a	22	a
Parks and recreation	684	1	355	1	292	1	37	1
Personal and social development	687	1	523	1	127	1	37	1
Philosophy, religion and theology	1,933	2	1,642	3	275	1	16	a
Physical sciences	4,687	5	4,076	8	569	2	42	1
Psychology 5,267	6	3,058	6	1,577	6	632	9	
Public affairs and protective services	1,584	2	687	1	810	3	87	1
Social sciences	12,516	14	9,465	18	2,678	11	373	5
Trade and industrial	50	a	34	a	16	a	--	--
Visual and performing arts	5,996	7	4,530	8	1,321	5	145	2
Other	179	a	171	a	5	a	3	a
Total <sup>3</sup>	86,426	100	53,899	100	25,166	100	7,361	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 for all universities, first-professional level for Slippery Rock and doctor's level for Indiana.

3. 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, 1997; CIP classifications - U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs*, 1991.

Table 4  
DEGREES CONFERRED<sup>1</sup>  
1996-97, CHANGE FROM 1995-96 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1991-92 to 1996-97)

University	Total				Bachelor's				Graduate <sup>2</sup>			
	Degrees	One-year change	Percentage change One-year	Five-year average	Degrees	One-year change	Percentage change One-year	Five-year average	Degrees	One-year change	Percentage change One-year	Five-year average
State-related												
Lincoln	328	18	6%	2%	219	-21	-9%	1%	109	39	56%	6%
Penn State	11,484	435	4	a	8,993	277	3	-1	2,491	158	7	4
Pittsburgh	6,668	125	2	a	3,962	77	2	a	2,706	48	2	1
Temple	5,472	-66	-1	-1	3,070	-92	-3	-3	2,402	26	1	2
Total	23,952	512	2	a	16,244	241	2	-1	7,708	271	4	3
State-owned												
Bloomsburg	1,469	-84	-5	-1	1,231	-92	-7	a	238	8	3	-2
California	1,255	20	2	1	906	-5	-1	-1	349	25	8	8
Cheyney	263	39	17	1	147	15	11	a	116	24	26	4
Clarion	1,004	-35	-3	-3	863	-27	-3	-3	141	-8	-5	-5
East Stroudsburg	1,034	-34	-3	1	788	-36	-4	a	246	2	1	6
Edinboro	1,298	-14	-1	1	1,094	-37	-3	a	204	23	13	5
Indiana	2,446	-210	-8	-2	1,956	-154	-7	-3	490	-56	-10	4
Kutztown	1,340	64	5	a	1,137	85	8	a	203	-21	-9	a
Lock Haven	586	2	a	1	583	1	a	1	3	1	50	b
Mansfield	581	53	10	-1	490	23	5	-2	91	30	49	11
Millersville	1,398	18	1	1	1,219	-10	-1	1	179	28	19	-1
Shippensburg	1,471	49	3	a	1,161	22	2	a	310	27	10	-1
Slippery Rock	1,366	4	a	a	1,153	2	a	a	213	2	1	1
West Chester	1,841	-36	-2	-1	1,489	-3	a	-1	352	-33	-9	a
Total	17,352	-164	-1	a	14,217	-216	-1	-1	3,135	52	2	2
All universities	41,304	348	1	a	30,461	25	a	-1	10,843	323	3	2

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

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

a. Rounds to less than 1 percent.

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

SOURCE: Data provided by the individual universities, 1992 to 1997.

Table 5

NUMBER AND WORKWEEKS OF FULL-TIME EMPLOYED FACULTY BY TYPE OF ACTIVITY  
FALL 1996, AND PERCENTAGE CHANGE FROM FALL 1995

University	Full-time employed faculty <sup>1</sup>	Average weekly hours <sup>2</sup>											
		Student contact				Instruc- tional <sup>3</sup>	Percentage change	Research	Percentage change	Other university service <sup>4</sup>	Percentage change	Total work- week	Percentage change
		Under- graduate	Percentage change	Graduate	Percentage change								
State-related													
Lincoln	86	10.3	6%	.9	12%	19.7	-8%	10.4	9%	9.8	5%	51.1	1%
Penn State	3,026	6.7	2	1.8	0	19.4	1	17.0	-1	7.7	-1	52.6	0
Pittsburgh	1,733	4.4	-8	4.0	-5	14.0	1	18.6	2	12.4	2	53.4	a
Temple	1,078	5.6	6	3.9	-2	18.4	0	13.9	-1	12.2	2	54.0	1
Total	5,923	5.9	0	2.8	-3	17.6	1	16.8	0	9.9	0	53.0	0
State-owned													
Bloomsburg	368	11.3	2	.8	0	17.5	1	9.0	6	17.7	3	56.3	3
California	259	10.0	-2	1.6	0	17.4	-2	7.3	-4	20.6	1	56.9	-1
Cheyney	91	11.0	5	1.0	-23	15.6	0	6.6	-12	18.6	4	52.8	a
Clarion	340	10.9	4	.8	-11	17.9	-4	8.5	-4	13.6	2	51.7	-1
East Stroudsburg	251	10.9	0	1.1	10	17.0	-4	9.0	1	17.6	4	55.6	a
Edinboro	380	12.8	0	.9	0	17.1	1	8.4	-1	15.2	-1	54.4	a
Indiana	720	10.2	4	1.2	-8	17.2	0	9.9	-3	17.8	1	56.3	a
Kutztown	373	11.0	-4	.5	-29	16.2	0	8.4	-2	17.3	1	53.4	-1
Lock Haven	185	10.9	-8	.1	0	18.1	0	7.0	3	17.7	2	53.8	-1
Mansfield	167	10.6	0	.4	33	21.2	1	9.5	-1	18.5	-4	60.2	-1
Millersville	328	10.1	-2	.8	-11	15.6	-5	10.3	6	16.8	-2	53.6	-1
Shippensburg	308	10.2	-2	.9	-10	17.8	2	8.0	4	17.3	-3	54.2	a
Slippery Rock	369	9.9	-5	.8	14	18.4	-1	8.7	-10	17.8	4	55.6	-2
West Chester	530	10.6	0	1.5	0	17.7	-1	12.3	1	19.4	5	61.5	1
Total	4,669	10.7	-1	.9	-10	17.4	-1	9.2	0	17.5	1	55.7	a
All universities	10,592	7.9	-1	2.0	-5	17.5	0	13.5	0	13.2	1	54.1	a

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

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

3. Includes course preparation and evaluation.

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

a. Rounds to less than 1 percent.

SOURCE: Data provided by the individual universities, 1996 and 1997.

Table 6

NUMBER AND AVERAGE INSTRUCTIONAL SALARIES OF FULL-TIME EQUIVALENT INSTRUCTIONAL FACULTY AND PERCENTAGE DISTRIBUTION BY RANK<sup>1</sup>  
1996-97  
(Dollars in thousands)

University	FTE instructional faculty		Average instructional salary		Professor		Associate professor		Assistant professor		Instructor		No rank <sup>2</sup>	
	Number	Percentage change 1995-96 to 1996-97	Amount	Percentage change 1995-96 to 1996-97	Average instruc- tional salary	Percent- age of faculty	Average instruc- tional salary	Percent- age of faculty	Average instruc- tional salary	Percent- age of faculty	Average instruc- tional salary	Percent- age of faculty	Average instruc- tional salary	Percent- age of faculty
State-related														
Lincoln	121	16%	\$33.2	-1%	\$51.8	15%	\$42.2	14%	\$31.0	28%	\$26.1	15%	\$24.3	28%
Penn State	3,557	2	45.5	1	76.4	16	53.8	20	43.8	22	31.2	13	30.0	29
Pittsburgh	1,855	-3	44.9	3	71.7	21	49.6	24	38.4	19	25.6	13	32.2	23
Temple	1,426	-1	46.0	1	71.3	29	54.9	22	39.3	15	21.4	13	21.9	21
Total	6,959	a	45.2	1	73.3	20	52.6	21	41.4	20	27.6	13	29.1	26
State-owned														
Bloomsburg	397	1	51.7	-1	65.1	28	53.7	33	43.1	29	31.8	10	na	0
California	272	-5	54.0	-1	66.8	43	53.8	30	43.3	14	22.0	12	49.0	1
Cheyney	99	3	50.0	-5	64.2	33	50.6	28	41.1	27	33.8	11	0	1
Clarion	327	0	53.0	-1	69.2	32	55.5	27	42.6	28	31.0	13	na	0
East Stroudsburg <sup>3</sup>	266	-12	56.6	10	70.4	39	58.1	27	46.2	24	25.3	10	na	0
Edinboro	393	-2	51.8	1	67.2	26	54.3	22	43.5	46	36.6	6	na	0
Indiana	729	4	54.0	-2	67.2	36	54.7	28	43.0	26	32.5	9	32.9	1
Kutztown	368	-1	54.6	-1	71.1	31	55.9	31	43.2	27	31.4	11	84.6	a
Lock Haven	185	2	51.5	-3	68.4	24	57.5	29	44.2	28	31.2	19	37.8	a
Mansfield	175	-1	54.8	a	70.7	29	55.3	35	45.2	27	30.9	9	na	0
Millersville	397	-2	52.2	1	66.5	35	54.2	26	41.3	28	29.8	11	na	0
Shippensburg	308	a	56.8	-1	69.7	41	57.1	18	44.6	37	33.4	4	na	0
Slippery Rock	360	-3	56.5	4	70.3	34	57.7	27	45.5	31	36.7	8	na	0
West Chester	575	a	49.4	-1	67.0	25	55.0	28	43.8	24	29.7	23	35.5	a
Total	4,851	-1	53.3	0	68.1	33	55.2	28	43.6	28	30.7	11	34.8	a
All universities	11,810	a	48.5	1	70.5	26	53.9	24	42.5	23	28.8	12	29.1	15

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

3. The large one-year change in FTE instructional faculty and average instructional salaries results from a correction in the computational method used for determining full-time equivalent instructional faculty in 1996-97.

a. Rounds to less than 1 percent.

na. Not applicable.

SOURCE: Data provided by the individual universities, 1996 and 1997.

Table 7

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>  
1996-97, CHANGE FROM 1995-96 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1991-92 to 1996-97)

University	Lower division	Percentage change		Upper division	Undergraduate Percentage change		Total undergraduate	Percentage change		Total master's	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	\$1,773	-7%	4%	\$3,865	8%	6%	\$2,214	-5%	4%	\$1,857	-2%	1%
Penn State	1,456	a	3	2,731	1	6	1,892	1	4	4,532	7	7
Pittsburgh	1,686	-1	5	3,124	5	8	2,154	1	6	5,126	-2	3
Temple	1,906	10	9	2,605	3	7	2,284	6	8	3,347	-1	5
Total	1,569	1	4	2,780	3	7	2,019	1	5	4,379	1	4
State-owned												
Bloomsburg	2,215	-4	5	4,120	1	7	2,754	-3	6	4,227	4	9
California	2,235	a	6	3,571	-8	6	2,685	-1	6	3,613	8	a
Cheyney	3,382	1	5	5,285	-12	7	3,941	-3	6	3,319	9	8
Clarion	2,276	-3	4	4,761	a	6	2,966	-3	4	5,003	2	9
East Stroudsburg	2,254	-8	5	4,241	-1	5	2,835	-3	5	2,755	-10	8
Edinboro	2,361	a	6	3,990	-3	5	2,920	a	6	4,776	19	6
Indiana	2,015	-1	7	4,419	1	9	2,763	0	8	6,160	6	8
Kutztown	2,017	-6	4	4,508	1	8	2,876	-2	6	4,302	2	5
Lock Haven	2,320	-1	4	3,915	-8	1	2,814	-4	4	6,311	-53	b
Mansfield	2,235	a	7	5,004	-3	6	3,338	-1	9	4,508	-2	10
Millersville	2,695	4	8	3,633	-3	5	3,036	1	7	2,947	-10	4
Shippensburg	2,353	a	4	3,937	-9	6	2,784	-4	5	3,956	5	2
Slippery Rock <sup>2</sup>	2,478	4	8	4,199	2	7	2,998	3	8	3,341	3	8
West Chester	2,349	-3	4	3,660	-2	5	2,793	-3	4	4,128	-2	2
Total	2,290	-1	6	4,139	-2	6	2,879	-1	6	4,074	3	5
All universities	1,906	-1	5	3,337	a	6	2,403	a	5	4,270	2	5

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

2. The first-professional level is included in the master's level.

a. Rounds to less than 1 percent.

b. The master's level was not included prior to 1992-93.

SOURCE: Data provided by the individual universities, 1992 to 1997.

Table 8A

LINCOLN UNIVERSITY  
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT<sup>1</sup>  
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION  
 1996-97

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	\$1,506	\$3,068	\$2,429	--	--	--
Communications	--	--	--	--	--	--
Computer and information sciences	1,469	4,993	2,118	--	--	--
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,750	3,124	2,029	\$4,056	--	--
Engineering	--	--	--	--	--	--
Foreign languages	2,357	7,384	3,210	--	--	--
Health	--	--	--	--	--	--
Home economics	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--
Law	--	--	--	--	--	--
Letters	1,977	5,135	2,235	--	--	--
Liberal/general studies	--	--	--	--	--	--
Library and archival sciences	--	--	--	--	--	--
Life sciences	1,060	6,572	1,708	--	--	--
Mathematics	1,456	2,756	1,512	--	--	--
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	1,022	3,292	1,690	--	--	--
Parks and recreation	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	1,162	3,159	1,492	--	--	--
Physical sciences	3,077	4,662	3,468	--	--	--
Psychology	1,742	4,163	2,492	--	--	--
Public affairs and protective services	--	--	--	1,708	--	--
Social sciences	1,753	3,246	2,295	2,422	--	--
Trade and industrial	--	--	--	--	--	--
Visual and performing arts	--	--	--	--	--	--
Other	--	--	--	--	--	--
Total	1,773	3,865	2,214	1,857	--	--

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, 1997; 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 STUDENT<sup>1</sup>  
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION  
 1996-97

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional <sup>2</sup>	Doctor's
Agriculture	\$1,621	\$2,178	\$2,020	\$7,835	--	\$10,123
Architecture and environmental design	1,224	4,024	2,248	21,687	--	28,957
Area and ethnic studies	1,463	5,458	2,360	7,707	--	9,759
Business	1,466	2,215	1,933	4,105	--	28,081
Communications	1,220	2,810	2,110	14,009	--	14,479
Computer and information sciences	1,934	2,980	2,124	2,550	--	18,324
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,040	2,582	1,866	1,966	--	5,886
Engineering	3,326	3,745	3,609	7,884	--	14,474
Foreign languages	1,691	2,842	1,897	7,277	--	11,896
Health	2,109	2,712	2,495	5,758	--	14,596
Home economics	731	1,939	1,269	8,546	--	10,450
Industrial arts	--	--	--	--	--	--
Law	--	--	--	--	--	--
Letters	1,713	2,172	1,834	5,844	--	10,292
Liberal/general studies	2,672	2,474	2,501	7,756	--	--
Library and archival sciences	3,325	1,076	2,814	--	--	--
Life sciences	1,115	2,294	1,389	5,835	--	12,681
Mathematics	1,626	3,440	1,788	2,313	--	14,368
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	1,332	2,655	1,934	4,132	--	6,388
Parks and recreation	534	1,374	1,238	7,449	--	11,729
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	1,132	3,491	1,346	24,675	--	12,746
Physical sciences	1,528	3,704	1,889	9,518	--	13,637
Psychology	605	2,341	1,188	5,401	--	7,820
Public affairs and protective services	1,614	1,842	1,783	3,614	--	15,187
Social sciences	1,059	2,786	1,468	7,948	--	13,114
Trade and industrial	3,628	--	3,628	--	--	--
Visual and performing arts	1,149	3,958	1,716	9,469	--	9,409
Other	--	--	--	--	--	--
Total	1,456	2,731	1,892	4,532	--	11,747

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, 1997; 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 STUDENT<sup>1</sup>  
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION  
 1996-97

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional <sup>2</sup>	Doctor's
Agriculture	--	--	--	--	--	--
Architecture and environmental design	--	--	--	--	--	--
Area and ethnic studies	\$1,850	\$4,000	\$2,564	\$8,677	--	\$20,827
Business	2,472	2,947	2,773	2,677	--	29,721
Communications	2,316	4,878	3,741	2,084	--	9,356
Computer and information sciences	1,348	3,165	1,773	4,466	--	14,887
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,153	2,517	1,893	2,965	--	8,188
Engineering	2,900	3,382	3,196	7,022	--	12,206
Foreign languages	2,267	2,813	2,406	7,212	--	16,934
Health	2,412	2,838	2,755	8,381	\$1,286	12,743
Home economics	--	1,779	1,779	3,468	--	--
Industrial arts	--	--	--	--	--	--
Law	--	--	--	--	2,370	31,675
Letters	1,841	2,408	2,003	4,860	--	12,948
Liberal/general studies	--	--	--	--	--	--
Library and archival sciences	--	901	901	2,701	--	10,317
Life sciences	1,645	4,007	2,403	13,364	--	23,578
Mathematics	1,858	3,487	2,064	7,834	--	19,561
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	1,074	1,286	1,088	1,615	--	--
Parks and recreation	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	1,751	3,917	2,160	11,955	--	24,327
Physical sciences	1,576	8,309	2,080	11,382	--	11,929
Psychology	966	2,558	1,313	7,843	--	11,037
Public affairs and protective services	886	1,974	1,757	3,933	--	9,877
Social sciences	1,563	3,473	2,127	9,762	--	18,631
Trade and industrial	--	--	--	--	--	--
Visual and performing arts	1,394	5,206	1,991	8,369	--	11,966
Other	--	--	--	--	--	--
Total	1,686	3,124	2,154	5,126	1,810	12,111

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, 1997; 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 STUDENT<sup>1</sup>  
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION  
1996-97

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional <sup>2</sup>	Doctor's
Agriculture	\$2,529	\$2,927	\$2,724	\$5,112	--	--
Architecture and environmental design	2,638	4,024	3,592	2,986	--	--
Area and ethnic studies	1,872	2,594	2,182	3,201	--	\$3,980
Business	1,877	2,489	2,280	2,761	--	14,201
Communications	1,863	3,210	2,666	4,980	--	7,355
Computer and information sciences	1,813	2,650	2,356	2,650	--	12,129
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,428	2,027	1,839	2,336	--	5,698
Engineering	3,122	3,734	3,555	5,911	--	22,432
Foreign languages	2,540	3,071	2,791	3,870	--	9,044
Health	2,025	1,503	1,545	3,182	\$4,749	8,329
Home economics	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--
Law	1,382	3,013	2,177	3,826	3,430	1,493
Letters	2,096	2,642	2,273	7,565	--	5,631
Liberal/general studies	1,077	1,064	1,073	2,141	--	--
Library and archival sciences	--	--	--	--	--	--
Life sciences	795	1,868	1,381	2,699	--	7,582
Mathematics	2,331	3,102	2,575	3,731	--	13,087
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	--	--	--	--	--	--
Parks and recreation	2,172	4,103	3,613	3,211	--	7,551
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	2,319	3,239	2,753	7,103	--	12,738
Physical sciences	1,796	2,728	2,197	3,556	--	11,867
Psychology	1,116	2,003	1,603	3,369	--	7,268
Public affairs and protective services	1,406	2,295	2,018	2,353	--	6,311
Social sciences	1,553	2,442	1,981	3,424	--	7,796
Trade and industrial	--	--	--	--	--	--
Visual and performing arts	2,661	4,138	3,406	7,169	--	11,735
Other	--	--	--	--	--	--
Total	1,906	2,605	2,284	3,347	3,996	8,076

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, 1997; CIP classifications - U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs*, 1991.

Table 8E

STATE-OWNED UNIVERSITIES  
AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT<sup>1</sup>  
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION  
1996-97

CIP classification	Undergraduate			Master's	Graduate	
	Lower division	Upper division	Total undergraduate		First professional <sup>2</sup>	Doctoral <sup>2</sup>
Agriculture	\$1,929	\$4,037	\$2,001	\$2,488	--	--
Architecture and environmental design	3,978	3,361	3,506	9,330	--	--
Area and ethnic studies	2,191	3,100	2,592	5,194	--	--
Business	2,202	3,505	2,927	4,079	--	--
Communications	2,319	3,817	2,948	5,008	--	--
Computer and information sciences	2,502	4,529	2,923	4,136	--	--
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,972	3,627	2,937	2,961	--	\$5,810
Engineering	4,202	5,828	5,159	2,862	--	--
Foreign languages	3,159	6,382	3,605	4,626	--	--
Health <sup>3</sup>	2,916	4,638	4,021	3,782	--	--
Home economics	2,017	3,907	2,895	14,930	--	--
Industrial arts	4,002	5,087	4,558	3,185	--	--
Law	2,308	2,118	2,223	3,132	--	--
Letters	2,260	3,887	2,553	6,553	--	5,449
Liberal/general studies	1,244	3,556	1,336	--	--	--
Library and archival sciences	3,016	4,810	3,814	3,917	--	--
Life sciences	2,450	6,120	3,201	8,265	--	--
Mathematics	2,480	5,082	2,732	6,224	--	--
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	1,480	4,614	2,213	4,552	--	--
Parks and recreation	2,698	3,358	2,996	7,571	--	--
Personal and social development	2,702	4,993	3,149	3,876	--	--
Philosophy, religion and theology	2,134	3,540	2,335	8,734	--	--
Physical sciences	3,085	8,846	3,791	16,230	--	--
Psychology	1,740	3,263	2,258	4,010	--	8,051
Public affairs and protective services	1,929	3,176	2,604	3,090	--	--
Social sciences	1,784	3,983	2,269	6,522	--	7,281
Trade and industrial	3,961	7,559	5,112	--	--	--
Visual and performing arts	2,650	6,548	3,530	11,811	--	--
Other	2,534	3,931	2,573	4,821	--	--
Total	2,290	4,139	2,879	4,074	--	6,267

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. Doctor's level for Indiana University only.

3. First-professional level for Slippery Rock University included in master's level.

SOURCE: Data provided by the individual State-owned universities, 1997; 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 LEVEL<sup>1</sup>  
1996-97, CHANGE FROM 1995-96 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1991-92 to 1996-97)

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

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

2. The master's level for 1996-97 includes the first-professional level.

a. No classroom instruction in 1995-96.

b. The master's level was not included prior to 1992-93.

c. Class sizes after 1991-92 are not comparable with those for previous years because of a change in reporting student teaching.

SOURCE: Data provided by the individual universities, 1992 to 1997.

Table 10

ACADEMIC YEAR TUITION AND REQUIRED FEES FOR FULL-TIME STUDENTS BY ACADEMIC LEVEL AND RESIDENCE  
1996-97, CHANGE FROM 1995-96 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1991-92 to 1996-97)

University	Undergraduate						Graduate <sup>1</sup>					
	In- State			Out-of-State			In-State			Out-of-State		
	Tuition and required fees	Percentage change		Tuition and required fees	Percentage change		Tuition and required fees	Percentage change		Tuition and required fees	Percentage change	
		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average
State-related												
Lincoln <sup>2</sup>	\$4,180	6%	11%	\$6,490	6%	12%	\$5,580	6%	7%	\$8,940	5%	10%
Penn State <sup>2</sup>	5,624	7	6	11,964	6	6	6,268	7	6	12,706	6	6
Pittsburgh <sup>2</sup>	5,870	4	5	12,230	4	6	7,770	4	5	15,440	4	6
Temple	5,828	6	5	10,712	4	5	7,088	6	5	9,800	5	7
Average	5,376	6	6	10,349	5	6	6,676	6	5	11,722	5	7
State-owned												
Bloomsburg	4,162	6	8	9,360	5	16	4,020	6	8	6,706	6	17
California	4,304	4	8	9,502	4	15	4,206	4	9	6,892	4	18
Cheyney	3,922	5	8	9,120	5	16	3,748	4	7	6,434	4	17
Clarion	4,268	5	7	9,466	5	14	4,144	4	7	6,830	4	16
East Stroudsburg	4,195	4	7	9,393	4	15	4,041	5	8	6,727	5	17
Edinboro	4,083	4	7	9,281	4	15	4,081	4	7	6,763	1	16
Indiana	4,064	4	7	9,262	4	15	3,956	4	7	6,642	4	16
Kutztown	4,138	5	7	9,336	5	15	3,968	4	9	6,654	4	18
Lock Haven	3,988	4	6	9,186	4	14	3,988	4	a	6,674	4	a
Mansfield	4,034	6	7	9,232	5	15	3,834	6	7	6,520	5	17
Millersville 4,268	4	8	9,466	4	15	4,268	4	8	6,954	4	16	
Shippensburg	4,230	5	7	9,428	5	15	4,030	5	7	6,716	5	16
Slippery Rock	4,179	4	7	9,377	4	15	4,179	4	7	6,748	3	15
West Chester	4,032	4	8	9,230	4	16	3,914	4	7	6,600	4	16
Average	4,133	5	7	9,331	5	15	4,027	5	7	6,704	4	17

1. Excludes first-professional level.

2. Main campus data only.

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

SOURCE: Pennsylvania Department of Education, *Colleges and Universities-Basic Student Charges*, 1991-92 to 1995-96; Pennsylvania Department of Education, *Colleges and Universities-Education Digest*, 1996-97.

Table 11

TUITION AND FEE REVENUES RELATED TO FULL-TIME EQUIVALENT STUDENTS<sup>1</sup>  
 1996-97, CHANGE FROM 1995-96 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1991-92 to 1996-97)

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	\$10,651	19%	19%	\$5,710	-\$100	-2%	13%
Penn State	473,469	11	8	7,190	550	8	7
Pittsburgh	224,461	4	5	8,090	260	3	6
Temple	173,291	2	3	7,390	430	6	6
Total	881,872	7	6	7,420	450	6	6
State-owned							
Bloomsburg	31,296	7	8	4,330	180	4	9
California	22,469	-1	5	4,300	210	5	10
Cheyney	5,964	1	4	4,610	80	2	6
Clarion	22,929	7	5	4,090	220	6	7
East Stroudsburg	25,469	5	7	4,780	170	4	7
Edinboro	28,878	a	4	4,320	110	3	7
Indiana	59,320	7	6	4,610	260	6	9
Kutztown	29,745	5	5	4,380	170	4	7
Lock Haven	14,287	5	4	4,350	140	3	7
Mansfield	12,446	4	3	4,440	180	4	6
Millersville	31,271	1	6	4,570	110	2	6
Shippensburg	26,527	7	7	4,380	240	6	8
Slippery Rock	28,415	-1	4	4,230	60	1	7
West Chester	45,501	7	6	4,680	250	6	7
Total	384,517	4	6	4,450	190	4	8
All universities	1,266,389	6	6	6,170	340	6	7

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, 1992 to 1997; FTE students - data provided by the individual universities, 1992 to 1997.

Table 12

COMMONWEALTH INSTRUCTIONAL APPROPRIATIONS RELATED TO FULL-TIME EQUIVALENT STUDENTS<sup>1</sup>  
 1996-97, CHANGE FROM 1995-96 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1991-92 to 1996-97)

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	\$9,763	1%	1%	\$5,230	-\$1,020	-16%	-3%
Penn State	214,690	a	3	3,260	-90	-3	2
Pittsburgh	132,235	1	2	4,770	20	a	4
Temple	138,987	1	2	5,930	300	5	4
Total	495,675	1	2	4,170	-20	a	3
State-owned							
Bloomsburg	29,821	a	1	4,130	-120	-3	2
California	27,518	a	3	5,270	300	6	7
Cheyney	13,049	1	a	10,090	150	2	2
Clarion	28,284	-1	2	5,050	-90	-2	4
East Stroudsburg	20,350	a	a	3,820	-40	-1	a
Edinboro	28,925	a	2	4,330	120	3	5
Indiana	56,453	-1	2	4,390	-60	-1	5
Kutztown	28,662	-1	1	4,220	-50	-1	2
Lock Haven	16,844	a	2	5,130	-40	-1	4
Mansfield	16,066	1	1	5,740	80	1	4
Millersville	30,894	-1	2	4,520	30	1	2
Shippensburg	26,612	a	1	4,390	-60	-1	2
Slippery Rock	30,689	a	2	4,570	120	3	4
West Chester	38,574	-1	a	3,970	-90	-2	1
Total <sup>2</sup>	392,741	a	1	4,540	-10	a	3
All universities <sup>2</sup>	888,416	a	2	4,330	-10	a	3

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 appropriation allocated to Office of the Chancellor, McKeever Center, Faculty Professional Development, University Center and System Reserve of the State System of Higher Education.

a. Rounds to less than 1 percent.

SOURCE: Instructional appropriations - *Governor's Executive Budget*, 1993-94 to 1997-98; data provided by the individual State-related universities and the State System of Higher Education, Commonwealth of Pennsylvania, 1992 to 1997. FTE students - data provided by the individual universities, 1992 to 1997.

Table 13

TUITION AND FEE REVENUES,  
COMMONWEALTH INSTRUCTIONAL APPROPRIATIONS AND STUDENT AID PER FULL-TIME EQUIVALENT STUDENT<sup>1</sup>  
1996-97, CHANGE FROM 1995-96 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1991-92 to 1996-97)

University	Per FTE student			Ratio of instructional appropriations to total instructional revenues			Student aid per FTE student <sup>2</sup>
	Tuition and fee revenues	Instructional appropriations	Total instructional revenues	Percentage	Percentage change		
					One- year	Five-year average	
State-related							
Lincoln	\$5,710	\$5,230	\$10,940	48%	-8%	-5%	\$484
Penn State	7,190	3,260	10,450	31	-9	-3	476
Pittsburgh 8,090	4,770	12,860	37	-3	-2	493	
Temple	7,390	5,930	13,320	45	0	a	510
Total	7,420	4,170	11,590	36	-5	-2	487
State-owned							
Bloomsburg	4,330	4,130	8,460	49	-4	-2	498
California	4,300	5,270	9,570	55	0	-1	635
Cheyney	4,610	10,090	14,700	69	0	-1	988
Clarion	4,090	5,050	9,140	55	-4	-1	676
East Stroudsburg	4,780	3,820	8,600	44	-4	-3	450
Edinboro	4,320	4,330	8,650	50	0	-1	664
Indiana	4,610	4,390	9,000	49	-4	-2	650
Kutztown	4,380	4,220	8,600	49	-2	-2	438
Lock Haven	4,350	5,130	9,480	54	-2	-1	646
Mansfield	4,440	5,740	10,180	56	-2	-1	736
Millersville 4,570	4,520	9,090	50	0	-1	439	
Shippensburg	4,380	4,390	8,770	50	-4	-2	452
Slippery Rock	4,230	4,570	8,800	52	0	-1	604
West Chester	4,680	3,970	8,650	46	-4	-3	390
Total <sup>3</sup>	4,450	4,540	8,990	51	-2	-1	555
All universities <sup>3</sup>	6,170	4,330	10,500	41	-5	-2	515

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, McKee Center, Faculty Professional Development, University Center and System Reserve of the State System of Higher Education.

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, 1992 to 1997; instructional appropriations - *Governor's Executive Budget*, 1993-94 to 1997-98; data provided by the individual State-related universities and the State System of Higher Education, Commonwealth of Pennsylvania, 1992 to 1997; FTE students - data provided by the individual universities, 1992 to 1997; student aid - data provided by the Pennsylvania Higher Education Assistance Agency, August 1997.



### **III. HISTORICAL DATA**

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Historical Table 1  
 FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC LEVEL<sup>1</sup>  
 1991-92 to 1996-97

University	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
<b>State-related</b>						
Lincoln						
Total	1,540	1,531	1,496	1,416	1,546	1,865
Undergraduate	1,337	1,321	1,272	1,217	1,317	1,573
Graduate	203	210	224	199	229	292
Penn State						
Total	63,537	63,161	61,170	61,082	64,137	65,811
Undergraduate	57,224	56,739	54,879	54,725	57,601	59,317
Graduate	6,313	6,422	6,291	6,357	6,536	6,494
Pittsburgh						
Total	29,492	29,405	28,865	28,290	27,565	27,738
Undergraduate	22,097	21,638	20,998	20,478	20,040	19,929
Graduate	7,395	7,767	7,867	7,812	7,525	7,809
Temple						
Total	26,321	25,773	25,349	25,078	24,399	23,455
Undergraduate	19,617	18,910	18,340	18,087	17,711	16,939
Graduate	6,704	6,863	7,009	6,991	6,688	6,516
<b>State-owned</b>						
Bloomsburg						
Total	7,415	7,379	7,159	7,040	7,026	7,225
Undergraduate	6,966	6,984	6,782	6,628	6,582	6,793
Graduate	449	395	377	412	444	432
California						
Total	6,242	6,044	5,804	5,733	5,547	5,226
Undergraduate	5,581	5,307	5,047	4,982	4,690	4,473
Graduate	661	737	757	751	857	753
Cheyney						
Total	1,389	1,423	1,412	1,278	1,303	1,293
Undergraduate	1,174	1,247	1,206	1,084	1,099	1,079
Graduate	215	176	206	194	204	214
Clarion						
Total	6,028	5,863	5,633	5,409	5,534	5,605
Undergraduate	5,659	5,546	5,312	5,133	5,234	5,300
Graduate	369	317	321	276	300	305
East Stroudsburg						
Total	5,309	5,251	5,277	5,317	5,263	5,325
Undergraduate	4,645	4,645	4,629	4,655	4,597	4,704
Graduate	664	606	648	662	666	621
Edinboro						
Total	7,651	7,637	7,271	6,971	6,840	6,678
Undergraduate	7,233	7,231	6,883	6,556	6,393	6,258
Graduate	418	406	388	415	447	420
Indiana						
Total	14,255	13,696	13,249	12,841	12,764	12,859
Undergraduate	13,116	12,541	12,241	11,795	11,729	11,739
Graduate	1,139	1,155	1,008	1,046	1,035	1,120
Kutztown						
Total	7,126	6,926	6,865	6,909	6,758	6,791
Undergraduate	6,724	6,524	6,476	6,485	6,326	6,383
Graduate	402	402	389	424	432	408
Lock Haven						
Total	3,599	3,669	3,520	3,431	3,243	3,283
Undergraduate	3,599	3,661	3,511	3,413	3,236	3,223
Graduate	a	8	9	18	7	60
Mansfield						
Total	3,149	3,142	3,089	2,893	2,810	2,801
Undergraduate	2,960	2,953	2,914	2,744	2,658	2,653
Graduate	189	189	175	149	152	148
Millersville						
Total	6,959	6,919	6,510	6,711	6,920	6,842
Undergraduate	6,168	6,093	5,710	5,957	6,100	6,046
Graduate	791	826	800	754	820	796
Shippensburg						
Total	6,197	6,096	5,974	5,950	5,989	6,057
Undergraduate	5,695	5,597	5,467	5,449	5,459	5,519
Graduate	502	499	507	501	530	538
Slippery Rock						
Total	7,496	7,358	7,167	7,005	6,908	6,717
Undergraduate	6,866	6,738	6,553	6,382	6,317	6,130
Graduate	630	620	614	623	591	587
West Chester						
Total	10,219	10,048	9,715	9,502	9,578	9,724
Undergraduate	9,135	9,003	8,702	8,565	8,653	8,765
Graduate	1,084	1,045	1,013	937	925	959

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

SOURCE: Data provided by the individual universities, 1992 to 1997.

Historical Table 2

STUDENT CREDIT HOURS BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>  
TOTAL YEAR AND SUMMER 1991-92 to 1996-97  
(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											
1991-92	31	9	40	5	na	na	5	45	1	1	2
1992-93	30	10	40	5	na	na	5	45	1	a	1
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
Penn State											
1991-92	1,083	634	1,717	82	na	70	152	1,869	105	23	128
1992-93	1,092	611	1,703	85	na	69	154	1,857	104	23	127
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
Pittsburgh											
1991-92	440	223	663	121	36	20	177	840	63	31	94
1992-93	431	218	649	129	36	22	187	836	57	32	89
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
Temple											
1991-92	281	308	589	84	53	24	161	750	56	20	76
1992-93	262	305	567	87	54	24	165	732	55	21	76
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
State-owned											
Bloomsburg											
1991-92	146	63	209	11	na	na	11	220	19	4	23
1992-93	143	66	209	9	na	na	9	218	19	3	22
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
California											
1991-92	116	52	168	16	na	na	16	184	11	4	15
1992-93	109	50	159	18	na	na	18	177	10	5	15
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
Cheyney											
1991-92	25	10	35	5	na	na	5	40	1	2	3
1992-93	28	9	37	4	na	na	4	41	1	1	2
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
Clarion											
1991-92	119	51	170	9	na	na	9	179	11	3	14
1992-93	116	50	166	8	na	na	8	174	11	2	13
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
East Stroudsburg											
1991-92	102	38	140	16	na	na	16	156	15	7	22
1992-93	100	40	140	15	na	na	15	155	15	6	21
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
Edinboro											
1991-92	153	64	217	10	na	na	10	227	14	3	17
1992-93	150	67	217	10	na	na	10	227	14	2	16
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
Indiana											
1991-92	265	128	393	27	na	b	27	420	33	8	41
1992-93	250	126	376	28	na	b	28	404	32	8	40
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
Kutztown											
1991-92	132	70	202	10	na	na	10	212	12	3	15
1992-93	125	71	196	10	na	na	10	206	11	3	14
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
Lock Haven											
1991-92	78	30	108	c	na	na	c	108	5	c	5
1992-93	80	30	110	a	na	na	a	110	6	a	6
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
Mansfield											
1991-92	62	27	89	5	na	na	5	94	5	1	6
1992-93	61	28	89	5	na	na	5	94	5	2	7
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
Millersville											
1991-92	127	58	185	19	na	na	19	204	16	12	28
1992-93	121	62	183	20	na	na	20	203	15	13	28
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
Shippensburg											
1991-92	123	48	171	12	na	na	12	183	10	4	14
1992-93	119	49	168	12	na	na	12	180	10	4	14
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
Slippery Rock											
1991-92	146	60	206	15	na	na	15	221	17	4	21
1992-93	141	61	202	15	na	na	15	217	17	4	21
1993-94	138	59	197	15	na	na	15	212	16	3	19
1994-95	135	56	191	15	na	na	15	206	14	3	17
1995-96	133	56	189	14	na	na	14	203	14	4	18
1996-97	128	56	184	14	d	na	14	198	13	3	16
West Chester											
1991-92	180	94	274	26	na	na	26	300	22	7	29
1992-93	175	95	270	25	na	na	25	295	22	7	29
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

1. Data for each year represent the summer term preceding the academic year plus the academic year. The first-professional level excludes medical school data for all universities.  
a. Rounds to less than one thousand student credit hours.  
b. The doctor's level was included in master's level prior to 1993-94.  
c. The master's level was not included prior to 1992-93.  
d. Included in master's level.  
na. Not applicable.

SOURCE: Data provided by the individual universities, 1992 to 1997.

Historical Table 3  
DEGREES CONFERRED<sup>1</sup>  
1991-92 to 1996-97

University	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
State-related						
Lincoln						
Total	292	250	313	298	310	328
Bachelor's	207	188	220	224	240	219
Graduate	85	62	93	74	70	109
Penn State						
Total	11,440	11,452	11,510	11,292	11,049	11,484
Bachelor's	9,395	9,387	9,231	8,981	8,716	8,993
Graduate	2,045	2,065	2,279	2,311	2,333	2,491
Pittsburgh						
Total	6,531	6,761	6,872	6,993	6,543	6,668
Bachelor's	3,975	4,185	4,065	4,020	3,885	3,962
Graduate	2,556	2,576	2,807	2,973	2,658	2,706
Temple						
Total	5,815	5,804	5,748	5,768	5,538	5,472
Bachelor's	3,672	3,660	3,382	3,299	3,162	3,070
Graduate	2,143	2,144	2,366	2,469	2,376	2,402
State-owned						
Bloomsburg						
Total	1,517	1,568	1,593	1,543	1,553	1,469
Bachelor's	1,256	1,347	1,368	1,354	1,323	1,231
Graduate	261	221	225	189	230	238
California						
Total	1,213	1,241	1,194	1,133	1,235	1,255
Bachelor's	968	976	923	865	911	906
Graduate	245	265	271	268	324	349
Cheyney						
Total	246	238	251	268	224	263
Bachelor's	148	151	173	189	132	147
Graduate	98	87	78	79	92	116
Clarion						
Total	1,212	1,146	1,195	1,025	1,039	1,004
Bachelor's	1,030	972	1,014	858	890	863
Graduate	182	174	181	167	149	141
East Stroudsburg						
Total	992	1,057	1,023	1,075	1,068	1,034
Bachelor's	803	864	826	852	824	788
Graduate	189	193	197	223	244	246
Edinboro						
Total	1,239	1,399	1,453	1,401	1,312	1,298
Bachelor's	1,074	1,230	1,284	1,191	1,131	1,094
Graduate	165	169	169	210	181	204
Indiana						
Total	2,648	2,756	2,742	2,591	2,656	2,446
Bachelor's	2,241	2,293	2,254	2,116	2,110	1,956
Graduate	407	463	488	475	546	490
Kutztown						
Total	1,369	1,440	1,382	1,349	1,276	1,340
Bachelor's	1,162	1,204	1,199	1,153	1,052	1,137
Graduate	207	236	183	196	224	203
Lock Haven						
Total	562	568	646	625	584	586
Bachelor's	562	564	645	624	582	583
Graduate	a	4	1	1	2	3
Mansfield						
Total	610	632	656	611	528	581
Bachelor's	551	548	564	538	467	490
Graduate	59	84	92	73	61	91
Millersville						
Total	1,349	1,438	1,468	1,367	1,380	1,398
Bachelor's	1,162	1,266	1,293	1,215	1,229	1,219
Graduate	187	172	175	152	151	179
Shippensburg						
Total	1,491	1,543	1,546	1,435	1,422	1,471
Bachelor's	1,158	1,247	1,230	1,114	1,139	1,161
Graduate	333	296	316	321	283	310
Slippery Rock						
Total	1,375	1,478	1,374	1,381	1,362	1,366
Bachelor's	1,172	1,311	1,242	1,195	1,151	1,153
Graduate	203	167	132	186	211	213
West Chester						
Total	1,945	2,088	1,964	2,001	1,877	1,841
Bachelor's	1,598	1,718	1,666	1,620	1,492	1,489
Graduate	347	370	298	381	385	352

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, Temple and Slippery Rock, and doctor's at Penn State, Pittsburgh, Temple and Indiana.

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

SOURCE: Data provided by the individual universities, 1992 to 1997.

Historical Table 4

NUMBER AND AVERAGE WEEKLY STUDENT CONTACT HOURS OF FULL-TIME EMPLOYED FACULTY BY ACADEMIC LEVEL<sup>1</sup>  
FALL 1991 to FALL 1996

University	Full-time employed faculty <sup>2</sup>						Undergraduate average weekly student contact hours						Graduate average weekly student contact hours					
	1991	1992	1993	1994	1995	1996	1991	1992	1993	1994	1995	1996	1991	1992	1993	1994	1995	1996
State-related																		
Lincoln	81	77	81	83	81	86	10.4	9.7	9.5	9.9	9.7	10.3	.5	1.1	.9	.9	.8	.9
Penn State	3,020	2,947	2,954	2,943	3,000	3,026	6.7	6.7	6.7	6.7	6.6	6.7	1.8	1.8	1.8	1.8	1.8	1.8
Pittsburgh	1,708	1,735	1,739	1,770	1,721	1,733	4.4	4.6	4.5	4.4	4.8	4.4	3.4	3.9	3.8	4.0	4.2	4.0
Temple	1,137	1,151	1,129	1,137	1,088	1,078	4.9	5.0	4.9	5.0	5.3	5.6	3.1	3.9	3.8	4.0	4.0	3.9
Total	5,946	5,910	5,903	5,933	5,890	5,923	5.7	5.8	5.7	5.7	5.9	5.9	2.5	2.8	2.8	2.9	2.9	2.8
State-owned																		
Bloomsburg	353	359	360	355	366	368	10.6	11.1	11.2	11.4	11.1	11.3	.8	.9	.8	.9	.8	.8
California	263	330	285	279	286	259	10.2	9.9	9.2	10.0	10.2	10.0	1.1	1.2	1.2	1.6	1.6	1.6
Cheyney	91	73	87	92	90	91	10.8	11.6	10.5	10.2	10.5	11.0	.8	1.1	.8	1.0	1.3	1.0
Clarion	345	341	333	340	346	340	10.0	10.7	10.9	11.2	10.5	10.9	.7	.7	.9	.7	.9	.8
East Stroudsburg	254	260	257	258	263	251	10.7	11.1	10.9	10.9	10.9	10.9	.9	.9	1.0	1.1	1.0	1.1
Edinboro	401	383	375	373	363	380	12.8	12.3	12.5	12.8	12.8	12.8	.6	.7	.6	.8	.9	.9
Indiana	697	702	692	712	715	720	10.0	9.9	10.2	9.8	9.8	10.2	1.2	1.2	1.3	1.4	1.3	1.2
Kutztown	345	345	352	358	357	373	11.4	11.5	11.5	11.4	11.4	11.0	.6	.6	.5	.5	.7	.5
Lock Haven	203	205	200	200	202	185	12.0	12.5	11.8	11.5	11.8	10.9	a	.1	.1	.1	.1	.1
Mansfield	171	171	175	174	176	167	10.9	10.5	10.8	11.2	10.6	10.6	.5	.3	.4	.4	.3	.4
Millersville <sup>3</sup>	330	290	294	305	332	328	11.4	10.8	11.2	11.6	10.3	10.1	.6	.8	.7	1.0	.9	.8
Shippensburg	312	310	311	317	312	308	9.7	9.7	9.5	9.4	10.4	10.2	.9	.9	.9	.9	1.0	.9
Slippery Rock	373	366	383	378	378	369	10.8	11.0	11.0	10.8	10.4	9.9	.8	.7	.7	.7	.7	.8
West Chester	543	548	540	538	541	530	10.4	10.6	10.8	10.8	10.6	10.6	1.6	1.6	1.6	1.5	1.5	1.5
Total	4,681	4,683	4,644	4,679	4,727	4,669	10.8	10.8	10.8	10.9	10.8	10.7	.9	.9	.9	1.0	1.0	.9
All universities	10,627	10,593	10,547	10,612	10,617	10,592	7.9	7.9	7.9	7.9	8.0	7.9	1.8	2.0	2.0	2.1	2.1	2.0

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

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

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

a. The graduate level was not included prior to Fall 1992.

SOURCE: Data provided by the individual universities, 1992 to 1997.

Historical Table 5

NUMBER AND AVERAGE INSTRUCTIONAL SALARIES OF FULL-TIME EQUIVALENT INSTRUCTIONAL FACULTY BY RANK<sup>1</sup>  
 1991-92 to 1996-97  
 (Dollars in thousands)

University	FTE instructional faculty	Average instructional salaries					
		All faculty	Professor	Associate professor	Assistant professor	Instructor	No rank <sup>2</sup>
State-related							
Lincoln							
1991-92	110	\$25.7	\$36.0	\$31.2	\$24.7	\$19.3	\$18.7
1992-93	95	29.8	37.7	33.9	28.3	23.6	25.6
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
Penn State							
1991-92	3,471	38.8	63.6	47.0	38.0	27.2	25.9
1992-93	3,456	40.0	66.3	48.0	39.1	28.4	26.6
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
Pittsburgh							
1991-92	1,767	40.3	62.9	44.4	35.3	23.2	30.6
1992-93	1,877	41.5	65.1	45.3	36.2	24.6	31.8
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
Temple							
1991-92	1,545	36.1	55.1	42.6	34.7	19.2	21.5
1992-93	1,532	38.2	58.5	45.7	36.9	19.1	21.3
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
State-owned							
Bloomsburg							
1991-92	385	42.0	53.8	43.2	34.9	27.9	na
1992-93	389	43.3	56.0	45.1	35.7	28.6	na
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
California							
1991-92	306	44.6	56.7	46.8	36.5	27.8	77.9
1992-93	309	45.3	59.8	47.7	37.6	24.0	45.9
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
Cheyney							
1991-92	85	47.5	56.8	46.2	39.9	30.9	na
1992-93	87	46.8	58.1	45.6	40.1	37.5	31.6
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
Clarion							
1991-92	348	43.3	54.4	44.2	35.9	28.0	34.2
1992-93	333	45.6	58.8	47.4	37.8	28.0	39.4
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
East Stroudsburg							
1991-92	284	41.0	50.4	40.2	32.0	25.7	na
1992-93	294	44.1	54.9	43.9	33.6	25.9	na
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 <sup>a</sup>	302	51.5	63.4	52.5	42.0	20.2	na
1996-97	266	56.6	70.4	58.1	46.2	25.3	na
Edinboro							
1991-92	437	40.3	51.7	42.2	33.3	26.7	na
1992-93	416	44.4	56.8	46.3	36.6	29.7	na
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
Indiana							
1991-92	704	44.2	54.5	44.7	36.2	25.8	28.7
1992-93	713	46.3	56.2	47.4	38.8	26.5	26.3
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
Kutztown							
1991-92	378	43.4	55.5	44.9	36.9	27.7	73.2
1992-93	363	47.9	59.6	48.5	38.5	29.8	71.3
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
Lock Haven							
1991-92	199	43.2	58.7	47.3	35.2	27.9	14.4
1992-93	194	44.6	60.8	49.4	37.5	31.4	0
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
Mansfield							
1991-92	176	42.5	55.0	44.6	36.6	26.6	na
1992-93	175	46.7	61.8	49.9	40.2	27.7	na
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
Millersville							
1991-92	366	43.0	55.1	45.3	36.9	24.9	na
1992-93	355	47.2	60.7	49.6	38.6	26.3	30.7
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
Shippensburg							
1991-92	315	46.5	54.2	43.9	35.6	27.1	na
1992-93	311	49.9	58.8	48.0	38.2	29.1	30.2
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
Slippery Rock							
1991-92	389	42.1	52.1	42.4	34.5	28.6	48.1
1992-93	384	47.3	58.4	45.9	39.4	33.9	68.3
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
West Chester							
1991-92	576	43.5	58.7	47.9	36.6	26.6	27.7
1992-93	576	45.0	60.8	49.8	38.9	26.6	18.0
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

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, 1992 to 1997.

Historical Table 6

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>  
1991-92 to 1996-97

University	Lower division						Upper division						Total undergraduate						Master's					
	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
State-related																								
Lincoln	\$1,487	\$1,533	\$1,843	\$2,028	\$1,910	\$1,773	\$3,013	\$2,719	\$3,005	\$3,268	\$3,573	\$3,865	\$1,838	\$1,821	\$2,146	\$2,367	\$2,323	\$2,214	\$1,788	\$2,062	\$1,698	\$1,928	\$1,893	\$1,857
Penn State	1,286	1,328	1,439	1,488	1,454	1,456	2,131	2,283	2,518	2,600	2,691	2,731	1,598	1,670	1,844	1,895	1,881	1,892	3,299	3,362	3,791	4,156	4,218	4,532
Pittsburgh	1,356	1,491	1,536	1,567	1,709	1,686	2,230	2,580	2,856	3,025	2,964	3,124	1,650	1,858	1,985	2,063	2,132	2,154	4,539	4,476	4,461	4,769	5,213	5,126
Temple	1,312	1,454	1,510	1,656	1,733	1,906	1,902	2,108	2,258	2,470	2,533	2,605	1,621	1,805	1,902	2,079	2,155	2,284	2,642	2,994	2,862	3,198	3,392	3,347
Total	1,310	1,388	1,479	1,540	1,556	1,569	2,097	2,296	2,520	2,653	2,709	2,780	1,617	1,739	1,890	1,973	1,990	2,019	3,602	3,706	3,759	4,096	4,336	4,379
State-owned																								
Bloomsburg	1,745	1,851	2,119	2,243	2,298	2,215	3,029	2,971	3,385	3,747	4,069	4,120	2,135	2,206	2,518	2,717	2,843	2,754	2,891	3,687	4,188	3,763	4,062	4,227
California	1,702	1,790	2,000	2,041	2,243	2,235	2,768	3,095	3,365	3,488	3,872	3,571	2,032	2,198	2,426	2,491	2,713	2,685	3,535	3,151	3,580	3,422	3,353	3,613
Cheyney	2,680	2,521	2,725	3,206	3,349	3,382	3,891	4,126	4,639	5,172	5,977	5,285	3,021	2,916	3,230	3,776	4,057	3,941	2,389	2,477	2,489	2,892	3,036	3,319
Clarion	1,906	2,034	2,309	2,308	2,351	2,276	3,659	3,603	4,072	4,610	4,760	4,761	2,433	2,510	2,843	2,997	3,062	2,966	3,467	3,966	4,038	5,347	4,907	5,003
East Stroudsburg	1,792	2,039	2,162	2,251	2,438	2,254	3,394	3,605	3,825	3,963	4,305	4,241	2,224	2,484	2,661	2,760	2,937	2,835	2,003	2,338	2,534	2,649	3,066	2,755
Edinboro	1,800	1,879	2,058	2,288	2,354	2,361	3,230	3,289	3,833	4,001	4,113	3,990	2,222	2,317	2,613	2,826	2,934	2,920	3,713	4,198	4,485	4,508	3,999	4,776
Indiana	1,482	1,649	1,919	1,959	2,036	2,015	3,043	3,207	3,623	4,134	4,373	4,419	1,991	2,173	2,489	2,667	2,763	2,763	4,385	4,972	5,213	5,808	5,793	6,160
Kutztown	1,687	1,849	1,954	1,972	2,136	2,017	3,250	3,458	3,924	4,250	4,473	4,508	2,227	2,435	2,655	2,747	2,937	2,876	3,510	3,783	3,851	4,210	4,219	4,302
Lock Haven	1,906	1,955	2,019	2,131	2,335	2,320	3,675	3,404	3,846	4,054	4,238	3,915	2,392	2,344	2,568	2,719	2,924	2,814	a	9,969	12,262	5,611	13,512	6,311
Mansfield	1,683	1,822	1,811	2,164	2,243	2,235	3,816	4,098	4,547	4,940	5,153	5,004	2,329	2,537	2,821	3,222	3,385	3,338	3,039	3,482	3,829	4,148	4,610	4,508
Millersville	1,934	2,036	2,429	2,554	2,591	2,695	2,901	3,123	3,341	3,548	3,732	3,633	2,236	2,406	2,732	2,912	3,010	3,036	2,481	2,542	3,397	3,545	3,272	2,947
Shippensburg <sup>2</sup>	1,940	2,004	2,243	2,277	2,358	2,353	3,048	3,611	3,894	4,076	4,305	3,937	2,252	2,471	2,705	2,788	2,899	2,784	3,620	3,348	3,333	3,929	3,759	3,956
Slippery Rock <sup>2</sup>	1,782	2,009	2,144	2,385	2,380	2,478	3,101	3,499	3,764	3,987	4,120	4,199	2,166	2,456	2,626	2,854	2,897	2,998	2,369	2,624	2,824	2,973	3,244	3,341
West Chester	1,953	2,117	2,319	2,315	2,426	2,349	2,951	3,081	3,433	3,551	3,741	3,660	2,296	2,456	2,723	2,756	2,885	2,793	3,761	3,653	4,484	4,099	4,228	4,128
Total	1,786	1,922	2,127	2,225	2,321	2,290	3,157	3,328	3,712	3,992	4,218	4,139	2,210	2,370	2,638	2,794	2,922	2,879	3,279	3,496	3,797	3,952	3,956	4,074
All universities	1,544	1,648	1,796	1,872	1,917	1,906	2,524	2,722	3,009	3,204	3,325	3,337	1,890	2,030	2,234	2,349	2,409	2,403	3,478	3,629	3,773	4,045	4,198	4,270

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 first-professional level is included in the master's level for 1996-97.

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

SOURCE: Data provided by the individual universities, 1992 to 1997.

Historical Table 7

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER STUDENT CREDIT HOUR BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>  
1991-92 to 1996-97

University	Lower division						Upper division						Total undergraduate						Master's					
	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
State-related																								
Lincoln	\$50	\$51	\$61	\$68	\$64	\$59	\$100	\$91	\$100	\$109	\$119	\$129	\$61	\$61	\$72	\$79	\$77	\$74	\$74	\$86	\$71	\$80	\$79	\$77
Penn State	43	44	48	50	48	49	71	76	84	87	90	91	53	56	61	63	63	63	137	140	158	173	176	189
Pittsburgh	45	50	51	52	57	56	74	86	95	101	99	104	55	62	66	69	71	72	189	187	186	199	217	214
Temple	44	48	50	55	58	64	63	70	75	82	84	87	54	60	64	69	72	76	110	125	119	133	141	139
Total	44	46	49	51	52	52	70	77	84	88	90	93	54	58	63	66	66	67	150	154	157	171	181	182
State-owned																								
Bloomsburg	58	62	71	75	77	74	101	99	113	125	136	137	71	74	84	91	95	92	120	154	174	157	169	176
California	57	60	67	68	75	74	92	103	112	116	129	119	68	73	81	83	90	90	147	131	149	143	140	151
Cheyney	89	84	91	107	112	113	130	137	155	172	199	176	101	97	108	126	135	131	100	103	104	121	126	138
Clarion	64	68	77	77	78	76	122	120	136	154	159	159	81	84	95	100	102	99	144	165	168	223	204	208
East Stroudsburg	60	68	72	75	81	75	113	120	127	132	144	141	74	83	89	92	98	94	83	97	106	110	128	115
Edinboro	60	63	69	76	78	79	108	110	128	133	137	133	74	77	87	94	98	97	155	175	187	188	167	199
Indiana	49	55	64	65	68	67	101	107	121	138	146	147	66	72	83	89	92	92	183	207	217	242	241	257
Kutztown	56	62	65	66	71	67	108	115	131	142	149	150	74	81	89	92	98	96	146	158	160	175	176	179
Lock Haven	64	65	67	71	78	77	123	113	128	135	141	130	80	78	86	91	97	94	a	415	511	234	563	263
Mansfield	56	61	60	72	75	74	127	137	152	165	172	167	78	85	94	107	113	111	127	145	160	173	192	188
Millersville	64	68	81	85	86	90	97	104	111	118	124	121	75	80	91	97	100	101	103	106	142	148	136	123
Shippensburg <sup>2</sup>	65	67	75	76	79	78	102	120	130	136	143	131	75	82	90	93	97	93	151	139	139	164	157	165
Slippery Rock <sup>2</sup>	59	67	71	80	79	83	103	117	125	133	137	140	72	82	88	95	97	100	99	109	118	124	135	139
West Chester	65	71	77	77	81	78	98	103	114	118	125	122	77	82	91	92	96	93	157	152	187	171	176	172
Total	60	64	71	74	77	76	105	111	124	133	141	138	74	79	88	93	97	96	137	146	158	165	165	170
All universities	51	55	60	62	64	64	84	91	100	107	111	111	63	68	74	78	80	80	145	151	157	169	175	178

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 first-provessional level is included in the master's level for 1996-97.

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

SOURCE: Data provided by the individual universities, 1992 to 1997.

Historical Table 8

AVERAGE CLASS SIZES IN CLASSROOM INSTRUCTION BY ACADEMIC DIVISION AND LEVEL<sup>1</sup>  
1991-92 to 1996-97

University	Lower division						Upper division						Total undergraduate						Master's					
	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
State-related																								
Lincoln	23	24	21	20	21	23	13	15	14	13	13	12	20	21	19	18	18	19	14	14	16	14	15	15
Penn State	31	31	30	30	31	30	29	27	27	26	26	26	30	30	29	29	29	29	14	14	14	14	14	14
Pittsburgh	31	31	29	29	29	29	28	27	26	24	24	23	30	29	28	27	27	27	18	19	18	18	17	18
Temple	27	27	27	26	28	26	25	24	23	22	23	22	26	25	25	24	25	24	16	16	16	15	15	15
Total	30	30	29	29	30	29	27	26	25	24	24	24	29	28	28	27	27	27	16	16	16	16	16	16
State-owned																								
Bloomsburg	25	25	23	23	23	23	18	18	17	16	15	15	23	22	21	20	20	20	13	11	10	11	11	11
California	29	29	31	31	29	30	18	18	19	18	17	17	25	24	26	25	24	24	11	13	13	14	14	13
Cheyney	22	23	22	19	19	18	15	14	12	12	11	11	20	20	18	16	16	15	18	18	17	15	14	12
Clarion	33	33	32	32	33	33	15	17	17	15	15	15	25	26	25	24	24	25	12	13	14	11	12	11
East Stroudsburg	28	27	27	28	28	29	17	17	18	18	19	18	24	23	24	24	25	24	23	19	18	19	17	16
Edinboro	26	28	26	26	26	25	17	18	17	17	17	17	23	24	23	22	23	22	10	10	9	10	10	9
Indiana	32	30	29	29	29	28	17	17	16	15	14	14	25	24	23	22	22	21	10	10	9	10	10	8
Kutztown	28	28	28	29	28	30	16	17	16	15	15	15	23	23	22	22	22	23	13	12	13	12	13	13
Lock Haven	27	28	29	28	28	30	12	17	13	17	20	22	20	24	21	24	25	27	a	4	3	15	b	8
Mansfield	27	27	28	26	26	26	9	10	9	8	9	8	17	17	16	14	15	14	9	9	8	8	8	7
Millersville <sup>2</sup>	25	26	25	25	26	25	17	17	19	19	19	20	22	22	22	23	23	23	14	14	14	13	14	16
Shippensburg <sup>2</sup>	29	28	28	28	28	28	21	16	16	17	16	20	26	23	23	23	23	25	14	14	15	14	15	15
Slippery Rock <sup>3</sup>	31	31	31	30	31	31	17	16	16	16	16	16	25	25	24	24	24	24	18	17	17	18	16	17
West Chester	24	24	23	23	24	24	16	15	15	14	14	14	20	20	19	19	19	20	11	12	10	10	11	11
Total	28	28	27	27	27	27	16	16	16	15	15	15	23	23	22	22	22	22	13	13	12	12	12	13
All universities	29	29	28	28	28	28	21	21	20	20	19	19	26	25	25	24	24	24	14	15	14	14	14	13

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

2. Class sizes for upper division and total undergraduate after 1991-92 are not comparable with those for previous years because of a change in reporting student teaching.

3. The master's level for 1996-97 includes the first-professional level.

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

b. No classroom instruction.

SOURCE: Data provided by the individual universities, 1992 to 1997.

Historical Table 9

COMMONWEALTH INSTRUCTIONAL APPROPRIATIONS<sup>1</sup>  
1991-92 to 1996-97  
(in millions)

University	1991- 92	1992- 93	1993- 94	1994- 95	1995- 96	1996- 97
State-related						
Lincoln	\$9.3	\$9.3	\$9.4	\$9.6	\$9.7	\$9.8
Penn State	189.3	189.3	198.5	207.6	214.7	214.7
Pittsburgh	119.3	119.3	123.4	127.6	130.9	132.2
Temple	128.1	128.1	131.6	134.5	137.3	139.0
Total	446.0	446.0	462.9	479.3	492.6	495.7
State-owned						
Bloomsburg	28.3	27.3	28.5	29.6	29.9	29.8
California	24.3	23.4	24.5	25.4	27.6	27.5
Cheyney	12.8	12.3	12.5	12.7	12.9	13.0
Clarion	25.6	24.7	25.8	26.8	28.5	28.3
East Stroudsburg	20.6	19.9	20.6	21.4	20.3	20.3
Edinboro	26.3	25.4	26.6	27.6	28.8	28.9
Indiana	51.0	49.3	51.7	53.7	56.8	56.5
Kutztown	27.1	26.1	27.2	28.3	28.9	28.7
Lock Haven	15.4	14.9	15.5	16.1	16.8	16.8
Mansfield	15.1	14.6	15.0	15.6	15.9	16.1
Millersville	28.6	27.6	28.7	29.8	31.1	30.9
Shippensburg	24.8	23.9	25.0	25.9	26.7	26.6
Slippery Rock	28.3	27.3	28.4	29.6	30.8	30.7
West Chester	39.3	37.9	39.3	40.9	38.8	38.6
Total <sup>2</sup>	367.5	354.6	369.3	383.4	393.8	392.7
All universities <sup>2</sup>	813.5	800.6	832.2	862.7	886.4	888.4

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, McKeever Center, Faculty Professional Development, University Center and System Reserve of the State System of Higher Education.

SOURCE: *Governor's Executive Budget*, 1993-94 to 1997-98, data provided by the individual State-related universities and the State System of Higher Education, Commonwealth of Pennsylvania, 1992 to 1997.

Historical Table 10

ACADEMIC YEAR TUITION AND REQUIRED FEES FOR FULL-TIME STUDENTS  
BY ACADEMIC LEVEL AND RESIDENCE  
1991-92 to 1996-97

University	Undergraduate		Graduate <sup>1</sup>	
	In-State	Out-of-State	In-State	Out-of-State
State-related				
Lincoln				
1991-92	\$2,710	\$4,030	\$4,175	\$5,975
1992-93	2,960	4,380	4,375	6,275
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
Penn State				
Main Campus				
1991-92	4,402	9,188	4,916	9,762
1992-93	4,618	9,644	5,158	10,246
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
Pittsburgh				
Main Campus				
1991-92	4,666	9,516	6,166	12,006
1992-93	4,922	10,066	6,516	12,706
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
Temple				
1991-92	4,756	8,696	5,736	7,152
1992-93	5,008	9,222	5,828	7,340
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
State-owned				
Bloomsburg				
1991-92	2,968	5,232	2,858	3,584
1992-93	3,068	6,462	2,958	4,426
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
California				
1991-92	3,128	5,392	2,900	3,626
1992-93	3,384	6,778	3,258	4,726
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
Cheyney				
1991-92	2,838	5,102	2,733	3,459
1992-93	2,938	6,332	2,833	4,301
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
Clarion				
1991-92	3,147	5,500	3,079	3,836
1992-93	3,328	6,830	3,253	4,809
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
East Stroudsburg				
1991-92	3,088	5,352	2,934	3,660
1992-93	3,352	6,746	3,196	4,662
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
Edinboro				
1991-92	3,013	5,277	2,995	3,721
1992-93	3,161	6,555	3,131	4,599
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
Indiana				
1991-92	3,055	5,319	2,971	3,697
1992-93	3,157	6,551	2,969	4,437
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
Kutztown				
1991-92	3,022	5,342	2,772	3,516
1992-93	3,160	6,639	2,880	4,385
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
Lock Haven				
1991-92	3,020	5,397	a	a
1992-93	3,261	6,655	3,261	4,729
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
Mansfield				
1991-92	2,947	5,211	2,812	3,538
1992-93	3,168	6,562	3,028	4,496
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
Millersville				
1991-92	3,100	5,364	3,100	3,826
1992-93	3,488	6,882	3,488	4,956
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
Shippensburg				
1991-92	3,108	5,372	2,978	3,704
1992-93	3,388	6,782	3,258	4,726
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
Slippery Rock				
1991-92	3,045	5,423	3,045	3,808
1992-93	3,287	6,681	3,287	4,755
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
West Chester				
1991-92	2,918	5,182	2,918	3,644
1992-93	3,158	6,522	3,040	4,508
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

1. Excludes first-professional level.

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

SOURCE: Pennsylvania Department of Education, *Colleges and Universities-Basic Student Charges*, 1991-92 to 1995-96; Pennsylvania Department of Education, *Colleges and Universities-Education Digest*, 1996-97.



## APPENDIX: MODEL OF FTE SALARY COST DETERMINATION

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

$$\begin{array}{c} \text{FTE} \\ \text{Instructional} \end{array} \quad \begin{array}{c} \text{Number of FTE} \\ \text{instructional faculty} \end{array} \quad \begin{array}{c} \text{Average FTE instructional} \\ \text{faculty salary} \end{array}$$

$$\begin{array}{c} \text{faculty} \\ \text{salaries} \\ \text{Student} \\ \text{credit hours} \end{array} \quad \begin{array}{c} \text{Number} \\ \text{of} \\ \text{courses} \end{array} \quad \begin{array}{c} \text{Average} \\ \text{course} \\ \text{(assigned)} \\ \text{credit} \\ \text{value} \end{array} \quad \begin{array}{c} \text{Average} \\ \text{class} \\ \text{(section)} \\ \text{size} \end{array} \quad \begin{array}{c} \text{Number} \\ \text{of classes} \\ \text{(sections)} \\ \text{Number} \\ \text{of courses} \end{array}$$

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 5).

