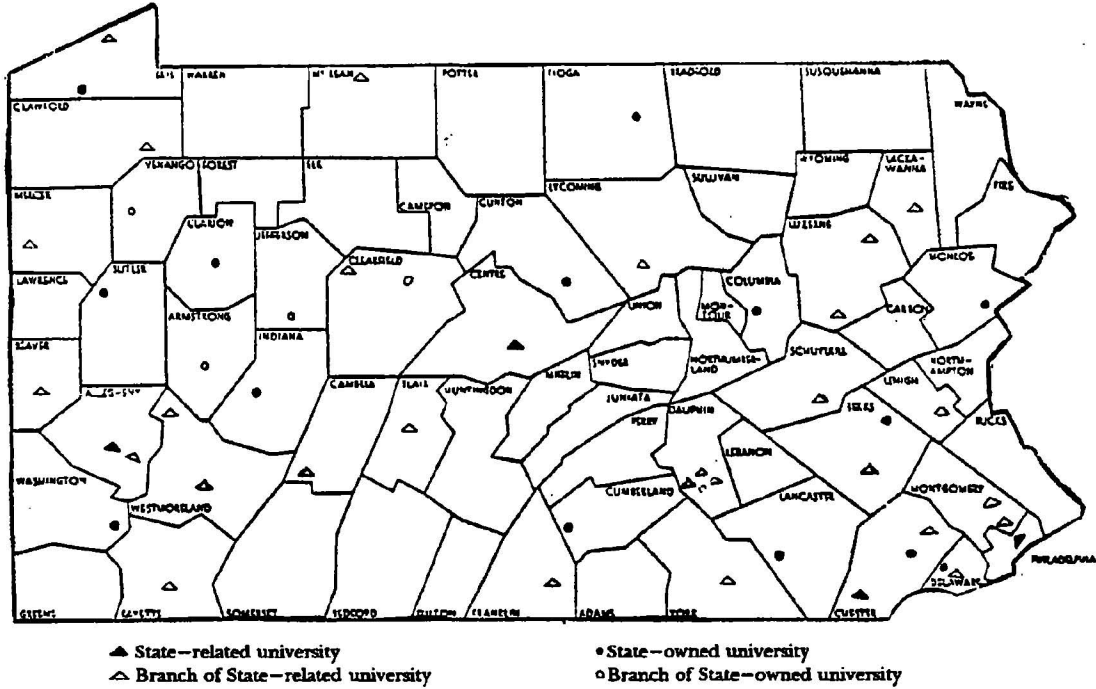


**INSTRUCTIONAL OUTPUT
AND FACULTY SALARY COSTS
OF THE STATE-RELATED
AND STATE-OWNED UNIVERSITIES**

**Analysis of 1993-94 Data
Reported Under 1993 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 1995**

STATE-RELATED AND STATE-OWNED UNIVERSITIES
AND BRANCH CAMPUSES



State-Related Universities

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

*Not included in this report.

State-Owned Universities

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

FOREWORD

This 22nd annual report summarizes the instructional outputs, instructional faculty salary costs, tuitions and Commonwealth appropriations for instruction for Pennsylvania's State-related and State-owned universities—the Commonwealth's public universities.

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

Levels of data for 1993–94 and data trends for 1988–89 to 1993–94 are presented. Student credit-hour and salary data are combined for the computation of a measure of cost efficiency: instructional faculty salary cost per full-time equivalent student. Tuition and appropriation data are combined for the computation of a measure of cost sharing: the percentage of total instructional revenues covered by instructional appropriations.

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

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

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

Conrad C. M. Arensberg
Counsel
Joint State Government Commission

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I. DATA HIGHLIGHTS

1. In Fall 1993, a total of 580,693 full- and part-time students were enrolled in the 144 public and private colleges and universities in Pennsylvania. Of this total, 229,826 students (40 percent) were enrolled in the Commonwealth's public universities: 133,864 students (23 percent) in the 4 State-related universities, and 95,962 (17 percent) in the 14 State-owned universities. The main and branch campuses of Pennsylvania's public universities are shown on page ii. Compared to Fall 1992, overall student enrollments in all of Pennsylvania's colleges and universities decreased by 1 percent, but in the Commonwealth's public universities decreased by more than 2 percent.¹
2. During the 1993-94 school year, ² nearly 6 million undergraduate and graduate student credit hours (SCH) were generated by the public universities. These SCH were the equivalent of 205,525 full-time students: 116,880 full-time equivalent (FTE) students (57 percent) for the State-related universities, and 88,645 (43 percent) for the State-owned universities.³ (Table 1) FTE students at the public universities decreased by almost 3 percent from the previous year; the aggregate full- and part-time student mix was not altered appreciably. FTE students vary considerably by academic level at

¹Pennsylvania Department of Education, Colleges and Universities Fall Enrollments, 1993.

²Unless otherwise noted, all data in this report apply to the indicated school year, which includes the summer term preceding the academic year, plus the fall and spring terms of the academic year. For example, the 1993-94 school year includes the summer and fall terms of 1993 plus the spring term of 1994.

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

the individual universities. For Pittsburgh⁴ and Temple, about three-quarters of the FTE students are undergraduates; both universities have first professional programs in dentistry and law. In contrast, the proportion of undergraduate FTE students is 85 percent for Lincoln, 90 percent for Penn State and 92 percent for the State-owned group.⁵ (Table 2) Likewise, the public universities offer diverse programs to students. Most of these universities continue to have large programs in business and education, in addition to letters and the social sciences. The State-owned universities have specialized program missions. (Tables 3A through 3E)⁶

3. During the 1993-94 school year, the public universities conferred 42,953 bachelor's and graduate degrees (not including medical degrees): 24,443 degrees (57 percent) by the State-related universities, and 18,510 (43 percent) by the State-owned universities. Total degrees for the State-related universities increased by almost 1 percent, but for the State-owned universities decreased by almost 1 percent from the preceding year.⁷ (Table 4)

4. The total number of FTE students enrolled in Pennsylvania's public universities in 1993-94 is nearly the same as the total number enrolled in 1988-89. Total enrollment has not decreased even though the Commonwealth's population of 18- to 24-year-olds decreased by 8 percent over this time period. The maintenance of

⁴Beginning in 1990-91 the University of Pittsburgh implemented a new Integrated Student Information System. As a result it was discovered that student credit hours (FTE students) in the law program were inadvertently overreported in previous years. One- and five-year comparisons are made for Pittsburgh; however, consideration must be given to this structural change in evaluating certain data changes.

⁵In 1993-94, Indiana University reported separate data for the doctor's level for the first time (previously data for this level were combined with Indiana's master's level). Comparisons with previous years must take this change into account.

⁶Tables 3A through 3E employ the Classification of Instructional Programs (CIP) taxonomy. The CIP taxonomy was introduced by the U.S. Department of Education's National Center for Education Statistics in 1981, and revised in 1985 and 1990. This report utilizes an aggregation of two-digit CIP, each of which corresponds to one or more academic departments or program areas within individual universities. The CIP groupings are used to facilitate comparisons between universities, given the large array of departments and program which exist in the Commonwealth's public universities.

⁷The public universities also award associate degrees. However, associate degrees are not included in this report.

FTE student enrollments would appear to be attributable to a larger percentage of Pennsylvania's college-age population attending the public universities, plus an increase in the enrollment of older students.

5. In Fall 1993, 10,547 teaching and research faculty were employed full-time by Pennsylvania's public universities: 5,903 full-time faculty (56 percent) by the State-related universities and 4,644 (44 percent) by the State-owned universities.⁸ The overall workweek reported by these faculty averaged 53.7 hours: 52.2 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 8.5 per week for the State-related group, and 11.7 per week for the State-owned group. (Table 5) Since 1988-89, average total workweeks and average student contact hours for both full-time faculty groups have remained nearly constant.

6. During the 1993-94 school year, the full- and part-time instructional faculty employed by the public universities were the equivalent of 11,761 full-time faculty: 6,885 FTE instructional faculty (59 percent) for the State-related universities, and 4,876 (41 percent) for the State-owned universities.⁹ The combined FTE instructional faculty decreased by about 1 percent from the previous year. The instructional salary for these faculty averaged \$41,900 and \$49,900 for the two public university groups, respectively.¹⁰ The combined average instructional salary increased by 7 percent from

⁸Faculty 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.

⁹Full-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.

¹⁰This report does not include the noninstructional salaries of instructional faculty members. Therefore, average faculty salaries cannot be compared to other sources.

the previous year.¹¹ 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 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 1988-89, the average instructional salary for the FTE instructional faculty has increased by about \$9,300 (29 percent) for the State-related universities, and about \$13,200 (36 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 1993-94 school year, the ratio of FTE students to FTE instructional faculty averaged 17.0 for the State-related universities (a one-year decrease of 1 percent), and 18.2 for the State-owned universities (a one-year decrease of nearly 3 percent). (Tables 1 and 6)
9. During the 1993-94 school year, the average instructional faculty salary costs per FTE student for the State-related group were: undergraduate level, \$1,890, and master's level, \$3,759. For the State-owned group the FTE instructional salary costs for the same levels were \$2,638 and \$3,797, respectively. (Table 7) First professional FTE instructional salary costs averaged \$1,767 for Pittsburgh and \$3,335 for Temple; doctoral FTE instructional salary costs averaged \$11,289 for Penn State, \$11,043 for Pittsburgh,

¹¹Caveat: 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.

\$6,650 for Temple and \$8,122 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 1988-89, undergraduate FTE instructional salary costs have increased by about 38 percent for the State-related group, and by about 42 percent for the State-owned group. FTE instructional salary cost also varies considerably by program area. (Table 8A through 8E)

10. Regression analysis applied to 1993-94 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 exceed \$9 million, and from increasing average class (section) sizes by one student would be over \$15 million.¹²
11. The average undergraduate class (section) size is 19 for Lincoln, 29 for Penn State, 28 for Pittsburgh, 25 for Temple, and 22 for the State-owned universities. Since 1988-89, average undergraduate class sizes have declined by about 4 percent. (Table 9)
12. During the 1993-94 school year, the tuition and required fees for full-time in-State undergraduate students averaged \$4,594 for the State-related universities, and \$3,571 for the State-owned universities. These tuition and fees increased by 5 percent for the State-related group and 10 percent for the State-owned group from the previous year. Lincoln's tuition and fees for nonresident full-time undergraduates exceeded those for residents by 56 percent, and for full-time graduate students by 44 percent. Penn State's tuition and fees for nonresident full-time undergraduates were 124 percent higher, and those for graduate students approximately double than the tuition and fees for residents. Pittsburgh's nonresident tuition and fees were approximately double those for residents for both levels.

¹²The 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.

For Temple, the out-of-state premium was almost 88 percent for full-time undergraduates and 34 percent for full-time graduate students. For the State-owned group, tuition and fees for nonresident undergraduates exceeded those for residents by more than 124 percent; nonresident graduate students paid 65 percent more than Pennsylvania residents. (Table 10)

13. For fiscal year 1993-94, the public universities collected more than a billion dollars in tuition and fee revenues. These revenues per FTE student averaged \$4,430 for Lincoln, \$5,520 for Penn State, \$7,090 for Pittsburgh, \$6,450 for Temple, and \$3,960 for the State-owned universities. Since 1988-89, per student revenues have grown by about 42 percent for the public universities. (Table 11)

14. For fiscal year 1993-94, the Commonwealth's General Fund educational and general (instructional) appropriations to the public universities for instruction totaled \$832 million: \$463 million (56 percent) to the State-related universities and \$369 million (44 percent) to the State-owned universities.^{13, 14} These appropriations represent 85 percent of the total appropriations made specifically for instruction to the public universities and community colleges, and about 73 percent of the total appropriations made for all purposes to all public and private colleges and universities in the Commonwealth. Total instructional appropriations, including Tuition Challenge Grants, for both the State-related and the State-owned universities increased by 4 percent from the previous year. The average appropriation per FTE student was \$3,960 for the State-related group (a one-year increase of over 6 percent) and \$4,170 for the State-owned group (a one-year increase of over 7 percent). (Table 12) In addition to the instructional appropriations made directly to the public universities, monies appropriated from the General Fund

¹³The Commonwealth appropriation to the State System of Higher Education given here does not include amounts appropriated for either the Board of Governors/Chancellor's Office or the System Reserve.

¹⁴Over the years, educational and general appropriations have been expanded to include expenditure categories which previously had been separate line items in the General Fund Budget. In this report, total educational and general appropriations are regarded as "instructional" and used for comparisons, because these appropriations are available to the public universities for instructional purposes.

to the Pennsylvania Higher Education Assistance Agency totaling almost \$77 million went to students at the public universities through various PHEAA grant and matching-fund programs.¹⁵

15. For 1993-94 total instructional revenues per FTE student--tuition and fees plus instructional appropriations--averaged \$10,050 for the State-related universities and \$8,130 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) These results are apparently related to the State-related group's greater emphasis on departmental research and their use of graduate teaching assistants and other nonranked faculty to generate significant numbers of student credit hours. The analysis of total instructional costs is beyond the scope of this report.

16. During the 1993-94 school year, on an FTE student basis, the ratio of Commonwealth instructional appropriations to tuition and fee revenues plus Commonwealth instructional appropriations averaged 39 percent for the State-related university group, and 51 percent for the State-owned university group. (Table 13) Since 1988-89, on an FTE student basis, average direct Commonwealth instructional appropriations to the public universities have increased by a lesser percentage than average tuition and fee revenues collected by these institutions. Hence, the percentage of total instructional revenues from Commonwealth appropriations has decreased, causing the student share of instructional cost to increase for all of the public universities.

¹⁵Data furnished by the Pennsylvania Higher Education Assistance Agency.

II. CURRENT YEAR DATA

Table 1

FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC LEVEL¹
 1993-94, CHANGE FROM 1992-93 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1988-89 to 1993-94)

University	Total				Undergraduate				Graduate ²			
	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	1,496	-35	-2%	3%	1,272	-49	-4%	3%	224	14	7%	2%
Penn State	61,170	-1,991	-3	a	54,879	-1,860	-3	a	6,291	-131	-2	2
Pittsburgh	28,865	-540	-2	a	20,998	-640	-3	-1	7,867	100	1	1
Temple	25,349	-424	-2	-1	18,340	-570	-3	-2	7,009	146	2	4
Total	116,880	-2,990	-2	a	95,489	-3,119	-3	-1	21,391	129	1	2
State-owned												
Bloomsburg	7,159	-220	-3	1	6,782	-202	-3	1	377	-18	-5	-1
California	5,804	-240	-4	-1	5,047	-260	-5	-2	757	20	3	11
Cheyney	1,412	-11	-1	3	1,206	-41	-3	2	206	30	17	6
Clarion	5,633	-230	-4	-2	5,312	-234	-4	-2	321	4	1	-4
East Stroudsburg	5,277	26	a	2	4,629	-16	a	1	648	42	7	7
Edinboro	7,271	-366	-5	2	6,883	-348	-5	2	388	-18	-4	a
Indiana	13,249	-447	-3	a	12,241	-300	-2	a	1,008	-147	-13	5
Kutztown	6,865	-61	-1	1	6,476	-48	-1	1	389	-13	-3	6
Lock Haven	3,520	-149	-4	4	3,511	-150	-4	4	9	1	12	na
Mansfield	3,089	-53	-2	2	2,914	-39	-1	2	175	-14	-7	-1
Millersville	6,510	-409	-6	-1	5,710	-383	-6	-1	800	-26	-3	-1
Shippensburg	5,974	-122	-2	a	5,467	-130	-2	a	507	8	2	1
Slippery Rock	7,167	-191	-3	1	6,553	-185	-3	a	614	-6	-1	15
West Chester	9,715	-333	-3	a	8,702	-301	-3	a	1,013	-32	-3	2
Total	88,645	-2,806	-3	a	81,433	-2,637	-3	a	7,212	-169	-2	3
All universities	205,525	-5,796	-3	a	176,922	-5,756	-3	a	28,603	-40	a	2

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

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

a. Rounds to less than 1 percent.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1989 to 1994.

Table 2

FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC DIVISION AND LEVEL¹
 1993-94, CHANGE FROM 1992-93 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1988-89 to 1993-94)

University	Lower division			Upper division			Master's			First professional ² and doctor's		
	FTE students	Percentage change		FTE students	Percentage change		FTE students	Percentage change		FTE students	Percentage change	
		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average
State-related												
Lincoln	940	-6%	1%	332	3%	10%	224	7%	2%	na	na	na
Penn State	34,288	-6	-2	20,591	1	2	3,366	-5	1	2,925	1%	2%
Pittsburgh	13,844	-4	-1	7,154	-2	a	5,382	a	3	2,485	4	-2
Temple	8,735	a	-4	9,605	-6	a	3,812	5	6	3,197	-1	2
Total	57,807	-4	-2	37,682	-1	1	12,784	a	3	8,607	1	1
State-owned												
Bloomsburg	4,646	-3	a	2,136	-3	3	377	-5	-1	na	na	na
California	3,474	-5	-2	1,573	-5	-2	757	3	11	na	na	na
Cheyney	888	-6	1	318	4	7	206	17	6	na	na	na
Clarion	3,704	-4	-3	1,608	-4	a	321	1	-4	na	na	na
East Stroudsburg	3,240	-2	a	1,389	5	6	648	7	7	na	na	na
Edinboro	4,731	-5	1	2,152	-4	5	388	-4	a	na	na	na
Indiana	8,149	-2	-1	4,092	-3	1	787	-13	5	221	b	b
Kutztown	4,170	a	a	2,306	-3	3	389	-3	6	na	na	na
Lock Haven	2,457	-8	3	1,054	7	6	9	12	na	na	na	na
Mansfield	1,839	-9	-1	1,075	16	13	175	-7	-1	na	na	na
Millersville	3,816	-5	-3	1,894	-9	2	800	-3	-1	na	na	na
Shippensburg	3,937	-1	a	1,530	-6	1	507	2	1	na	na	na
Slippery Rock	4,601	-2	-2	1,952	-3	4	614	-1	15	na	na	na
West Chester	5,549	-5	-1	3,153	a	4	1,013	-3	2	na	na	na
Total	55,201	-4	-1	26,232	-2	3	6,991	-2	3	221	b	b
All universities	113,008	-4	-1	63,914	-2	2	19,775	-1	3	8,828	1	1

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

2. Excludes medical school data.

a. Rounds to less than 1 percent.

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

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1989 to 1994.

Table 3A

LINCOLN UNIVERSITY
 NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
 1993-94

CIP Classification	Total	Percent- age of total	Undergraduate			Percent- age of total	Graduate ³	Percent- age of total
			Lower division	Percent- age of total	Upper division			
Agriculture	--	--	--	--	--	--	--	--
Architecture and environmental design	--	--	--	--	--	--	--	--
Area and ethnic studies	--	--	--	--	--	--	--	--
Business	97	6%	31	3%	66	20%	--	--
Communications	--	--	--	--	--	--	--	--
Computer and information sciences	37	2	31	3	6	2	--	--
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	253	17	194	21	53	16	6	3%
Engineering	--	--	--	--	--	--	--	--
Foreign languages	66	4	60	6	6	2	--	--
Health	--	--	--	--	--	--	--	--
Home economics	--	--	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--	--	--
Law	--	--	--	--	--	--	--	--
Letters	182	12	155	16	27	8	--	--
Liberal/general studies	--	--	--	--	--	--	--	--
Library and archival sciences	--	--	--	--	--	--	--	--
Life sciences	96	6	81	9	15	5	--	--
Mathematics	102	7	99	11	3	1	--	--
Military sciences	--	--	--	--	--	--	--	--
Multi/interdisciplinary studies	8	1	6	1	2	1	--	--
Parks and recreation	--	--	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--	--	--
Philosophy, religion and theology	52	3	45	5	7	2	--	--
Physical sciences	86	6	67	7	19	6	--	--
Psychology	73	5	47	5	26	8	--	--
Public affairs and protective services	219	15	--	--	--	--	219	97
Social sciences	227	15	125	13	102	31	--	--
Trade and industrial	--	--	--	--	--	--	--	--
Visual and performing arts	--	--	--	--	--	--	--	--
Other	--	--	--	--	--	--	--	--
Total⁴	1,496	100	940	100	332	100	224	100

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

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

3. Graduate includes master's level only.

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

SOURCE: Reports provided by Lincoln University, 1994.

Table 3B

PENNSYLVANIA STATE UNIVERSITY
 NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
 1993-94

CIP Classification	Total	Undergraduate			Graduate ³	Percent- age of total		
		Percent- age of total	Lower division	Percent- age of total			Upper division	
Agriculture	1,025	2%	231	1%	657	3%	137	2%
Architecture and environmental design	466	1	238	1	215	1	13	a.
Area and ethnic studies	612	1	435	1	151	1	26	a
Business	6,401	10	1,960	6	3,603	17	838	13
Communications	850	1	332	1	489	2	29	a
Computer and information sciences	1,217	2	943	3	211	1	63	1
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	4,596	8	1,277	4	1,706	8	1,613	26
Engineering	5,513	9	1,415	4	2,977	14	1,121	18
Foreign languages	2,101	3	1,569	5	428	2	104	2
Health	1,127	2	260	1	732	4	135	2
Home economics	1,549	3	970	3	456	2	123	2
Industrial arts	--	--	--	--	--	--	--	--
Law	--	--	--	--	--	--	--	--
Letters	5,670	9	3,761	11	1,614	8	295	5
Liberal/general studies	331	1	260	1	64	a	7	a
Library and archival sciences	8	a	3	a	5	a	--	--
Life sciences	3,446	6	2,514	7	740	4	192	3
Mathematics	5,563	9	4,791	14	603	3	169	3
Military sciences	84	a	44	a	40	a	--	--
Multi/interdisciplinary studies	1,891	3	992	3	798	4	101	2
Parks and recreation	251	a	60	a	171	1	20	a
Personal and social development	--	--	--	--	--	--	--	--
Philosophy, religion and theology	960	2	766	2	155	1	39	1
Physical sciences	4,992	8	3,541	10	935	5	516	8
Psychology	1,997	3	1,287	4	544	3	166	3
Public affairs and protective services	831	1	144	a	540	3	147	2
Social sciences	6,131	10	4,107	12	1,690	8	334	5
Trade and industrial	304	a	303	1	1	a	--	--
Visual and performing arts	3,251	5	2,084	6	1,064	5	103	2
Other	--	--	--	--	--	--	--	--
Total⁴	61,170	100	34,288	100	20,591	100	6,291	100

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

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

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

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

a. Rounds to less than 1 percent.

SOURCE: Reports provided by Pennsylvania State University, 1994.

Table 3C

UNIVERSITY OF PITTSBURGH
NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS¹
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
1993-94

CIP Classification	Total	Percent- age of total	Undergraduate			Graduate ³	Percent- age of total
			Lower division	Percent- age of total	Upper division		
Agriculture	--	--	--	--	--	--	--
Architecture and environmental design	--	--	--	--	--	--	--
Area and ethnic studies	200	1%	104	1%	90	6	a
Business	2,100	7	189	1	698	10	1,213
Communications	92	a	8	a	31	a	53
Computer and information sciences	989	3	561	4	155	2	273
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--
Education	1,878	7	272	2	417	6	1,189
Engineering	1,663	6	414	3	732	10	517
Foreign languages	1,444	5	970	7	358	5	116
Health	2,862	10	250	2	1,121	16	1,491
Home economics	66	a	1	a	48	1	17
Industrial arts	--	--	--	--	--	--	--
Law	860	3	6	a	--	--	854
Letters	3,041	11	2,001	14	844	12	196
Liberal/general studies	--	--	--	--	--	--	--
Library and archival sciences	290	1	--	--	9	a	281
Life sciences	1,163	4	804	6	282	4	77
Mathematics	1,549	6	1,351	10	212	3	86
Military sciences	9	a	4	a	5	a	--
Multi/interdisciplinary studies	134	a	123	1	10	a	1
Parks and recreation	--	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--	--
Philosophy, religion and theology	786	3	625	5	94	1	67
Physical sciences	2,213	8	1,854	13	141	2	218
Psychology	1,454	5	1,083	8	258	4	113
Public affairs and protective services	1,439	5	150	1	467	7	822
Social sciences	3,454	12	2,216	16	1,018	14	220
Trade and industrial	--	--	--	--	--	--	--
Visual and performing arts	1,077	4	858	6	162	2	57
Other	--	--	--	--	--	--	--
Total⁴	28,865	100	13,844	100	7,154	100	7,867

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

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

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

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

a. Rounds to less than 1 percent.

SOURCE: Reports provided by University of Pittsburgh, 1994.

Table 3D

TEMPLE UNIVERSITY
 NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
 1993-94

CIP Classification	Total	Percent- age of total	Undergraduate			Percent- age of total	Graduate ³	Percent- age of total
			Lower division	Percent- age of total	Upper division			
Agriculture	93	a	52	1%	41	a	--	--
Architecture and environmental design	273	1%	80	1	191	2%	2	a
Area and ethnic studies	329	1	150	2	114	1	65	1%
Business	2,590	10	511	6	1,371	14	708	10
Communications	754	3	235	3	378	4	141	2
Computer and information sciences	407	2	108	1	192	2	107	2
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	2,115	8	465	5	891	9	759	11
Engineering	499	2	104	1	325	3	70	1
Foreign languages	777	3	380	4	319	3	78	1
Health	2,285	9	41	a	850	9	1,394	20
Home economics	--	--	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--	--	--
Law	1,764	7	146	2	184	2	1,434	20
Letters	1,902	8	1,190	14	603	6	109	2
Liberal/general studies	562	2	388	4	171	2	3	a
Library and archival sciences	--	--	--	--	--	--	--	--
Life sciences	604	2	300	3	244	3	60	1
Mathematics	1,598	6	1,037	12	438	5	123	2
Military sciences	5	a	2	a	3	a	--	--
Multi/interdisciplinary studies	--	--	--	--	--	--	--	--
Parks and recreation	222	1	42	a	102	1	78	1
Personal and social development	--	--	--	--	--	--	--	--
Philosophy, religion and theology	459	2	195	2	172	2	92	1
Physical sciences	1,242	5	704	8	450	5	88	1
Psychology	1,570	6	464	5	481	5	625	9
Public affairs and protective services	880	3	163	2	300	3	417	6
Social sciences	2,803	11	1,294	15	1,150	12	359	5
Trade and industrial	--	--	--	--	--	--	--	--
Visual and performing arts	1,618	6	685	8	637	7	296	4
Other	--	--	--	--	--	--	--	--
Total⁴	25,349	100	8,735	100	9,605	100	7,009	100

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

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

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

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

a. Rounds to less than 1 percent.

SOURCE: Reports provided by Temple University, 1994.

Table 3E

STATE-OWNED UNIVERSITIES
 NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
 1993-94

CIP Classification	Total	Percent- age of total	Undergraduate			Graduate ³	Percent- age of total	
			Lower division	Percent- age of total	Upper division			
Agriculture	96	a	88	a	6	a	2	a
Architecture and environmental design	14	a	--	--	9	a	5	a
Area and ethnic studies	351	a	184	a	148	1%	19	a
Business	7,510	8%	2,682	5%	4,318	16	510	7%
Communications	2,183	2	1,164	2	921	4	98	1
Computer and information sciences	1,857	2	1,437	3	295	1	125	2
Consumer, personal and miscellaneous services	--	--	--	--	--	--	--	--
Education	16,629	19	5,470	10	7,699	29	3,460	48
Engineering	289	a	98	a	147	1	44	1
Foreign languages	2,355	3	1,974	4	338	1	43	1
Health	2,661	3	793	1	1,430	5	438	6
Home economics	531	1	272	a	239	1	20	a
Industrial arts	520	1	202	a	137	1	181	3
Law	138	a	55	a	64	a	19	a
Letters	8,908	10	6,967	13	1,609	6	332	5
Liberal/general studies	195	a	186	a	9	a	--	--
Library and archival sciences	184	a	33	a	21	a	130	2
Life sciences	4,537	5	3,525	6	859	3	153	2
Mathematics	5,487	6	4,706	9	668	3	113	2
Military sciences	128	a	88	a	30	a	10	a
Multi/interdisciplinary studies	248	a	138	a	78	a	32	a
Parks and recreation	429	a	184	a	205	1	40	1
Personal and social development	641	1	507	1	93	a	41	1
Philosophy, religion and theology	1,818	2	1,591	3	215	1	12	a
Physical sciences	5,029	6	4,376	8	582	2	71	1
Psychology	5,440	6	3,326	6	1,451	6	663	9
Public affairs and protective services	1,443	2	683	1	669	3	91	1
Social sciences	12,934	15	9,740	18	2,784	11	410	6
Trade and industrial	33	a	18	a	15	a	--	--
Visual and performing arts	5,901	7	4,565	8	1,190	5	146	2
Other	158	a	150	a	5	a	3	a
Total⁴	88,645	100	55,201	100	26,232	100	7,212	100

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

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

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

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

a. Rounds to less than 1 percent.

SOURCE: Reports provided by the individual State-owned universities, 1994.

Table 4

DEGREES CONFERRED¹
 1993-94, CHANGE FROM 1992-93 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1988-89 to 1993-94)

University	Total				Bachelor's				Graduate ²			
	Degrees	One-year change	Percentage change One-year Five-year year average		Degrees	One-year change	Percentage change One-year Five-year year average		Degrees	One-year change	Percentage change One-year Five-year year average	
State-related												
Lincoln	313	63	25%	6%	220	32	17%	7%	93	31	50%	5%
Penn State	11,510	58	1	3	9,231	-156	-2	3	2,279	214	10	5
Pittsburgh	6,872	111	2	2	4,065	-120	-3	2	2,807	231	9	3
Temple	5,748	-56	-1	2	3,382	-278	-8	a	2,366	222	10	5
Total	24,443	176	1	2	16,898	-522	-3	2	7,545	698	10	4
State-owned												
Bloomsburg	1,593	25	2	6	1,368	21	2	6	225	4	2	4
California	1,194	-47	-4	5	923	-53	-5	4	271	6	2	11
Cheyney	234	-4	-2	12	161	10	7	10	73	-14	-16	19
Clarion	1,193	47	4	2	1,013	41	4	1	180	6	3	4
East Stroudsburg	1,023	-34	-3	5	826	-38	-4	4	197	4	2	11
Edinboro	1,453	54	4	8	1,284	54	4	9	169	0	0	3
Indiana	2,742	-14	-1	1	2,254	-39	-2	1	488	25	5	6
Kutztown	1,382	-58	-4	5	1,199	-5	a	4	183	-53	-22	10
Lock Haven	688	73	12	10	687	75	12	10	1	-2	-67	na
Mansfield	656	24	4	7	564	16	3	6	92	8	10	11
Millersville	1,468	30	2	5	1,293	27	2	5	175	3	2	9
Shippensburg	1,546	3	a	1	1,230	-17	-1	2	316	20	7	-1
Slippery Rock	1,374	-104	-7	3	1,242	-69	-5	4	132	-35	-21	-1
West Chester	1,964	-124	-6	5	1,666	-52	-3	5	298	-72	-19	3
Total	18,510	-129	-1	4	15,710	-29	a	4	2,800	-100	-3	5
All universities	42,953	47	a	3	32,608	-551	-2	3	10,345	598	6	4

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

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

a. Rounds to less than 1 percent.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1989 to 1994.

Table 5

NUMBER AND WORKWEEKS OF FULL-TIME EMPLOYED FACULTY BY TYPE OF ACTIVITY
FALL 1993, AND PERCENTAGE CHANGE FROM FALL 1992

University	Full-time employed faculty ¹	Average weekly hours ²											
		Student contact				Instruc- tional support ³	Percent- age change	Research	Percent- age change	Other university service ⁴	Percent- age change	Total work- week	Percent- age change
		Under- graduate	Percent- age change	Graduate	Percent- age change								
State-related													
Lincoln	81	9.5	-2%	.9	-18%	19.4	7%	10.5	25%	9.3	-11%	49.6	4%
Penn State	2,954	6.7	0	1.8	0	19.4	-1	16.9	-2	7.4	4	52.2	a
Pittsburgh	1,739	4.5	-2	3.8	-3	14.0	3	18.5	3	11.3	7	52.1	3
Temple	1,129	4.9	-2	3.8	-3	17.7	-1	14.8	-1	11.4	-3	52.6	-1
Total	5,903	5.7	-2	2.8	0	17.5	1	16.9	1	9.3	3	52.2	1
State-owned													
Bloomsburg	360	11.2	1	.8	-11	17.4	-2	9.0	7	17.6	1	56.0	1
California	285	9.2	-7	1.2	0	16.1	-4	7.5	0	20.8	a	54.8	-2
Cheyney	87	10.5	-9	.8	-27	16.4	-5	7.0	0	19.6	6	54.3	-2
Clarion	333	10.9	2	.9	29	18.4	2	8.9	1	12.9	-4	52.0	1
East Stroudsburg	257	10.9	-2	1.0	11	17.7	-1	9.6	5	17.0	4	56.2	2
Edinboro	375	12.5	2	.6	-14	18.1	2	8.2	-4	15.1	1	54.5	1
Indiana	692	10.2	3	1.3	8	16.4	-5	9.4	1	18.0	-4	55.3	-2
Kutztown	352	11.5	0	.5	-17	16.4	-4	8.3	-5	17.3	4	54.0	-1
Lock Haven	200	11.8	-6	.1	0	17.7	0	7.5	3	17.4	9	54.5	2
Mansfield	175	10.8	3	.4	33	20.2	0	10.3	-2	18.5	-3	60.2	-1
Millersville	294	11.2	4	.7	-12	16.5	-5	8.5	9	16.8	-3	53.7	-1
Shippensburg	311	9.5	-2	.9	0	16.9	-1	7.5	-5	17.5	6	52.3	1
Slippery Rock	383	11.0	0	.7	0	18.9	-3	11.7	5	17.6	1	59.9	1
West Chester	540	10.8	2	1.6	0	18.4	-3	11.5	6	18.5	-2	60.8	a
Total	4,644	10.8	0	.9	0	17.5	-2	9.1	1	17.4	1	55.7	a
All universities	10,547	7.9	0	2.0	0	17.5	-1	13.6	0	12.7	2	53.7	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: Reports provided by the individual universities, 1993 and 1994.

Table 6

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

University	FTE instructional faculty		Average instructional salary		Professor		Associate professor		Assistant professor		Instructor		No rank ²	
	Number	Percentage change	Amount	Percentage change	Average instructional salary	Percent- age of faculty	Average instructional salary	Percent- age of faculty	Average instructional salary	Percent- age of faculty	Average instructional salary	Percent- age of faculty	Average instructional salary	Percent- age of faculty
		1992-93 to 1993-94		1992-93 to 1993-94										
State-related														
Lincoln	98	3%	\$31.8	7%	\$43.9	16%	\$34.6	25%	\$28.9	24%	\$28.3	11%	\$25.4	24%
Penn State	3,445	a	42.7	7	69.0	16	49.8	18	41.2	24	33.7	13	28.4	29
Pittsburgh	1,838	-2	42.8	3	67.1	19	47.9	23	37.1	22	25.1	12	32.6	24
Temple	1,504	-2	39.7	4	61.9	26	48.3	20	38.3	17	21.6	11	19.5	26
Total	6,885	-1	41.9	5	66.1	19	48.6	20	39.4	22	28.9	12	27.5	27
State-owned														
Bloomsburg	393	1	47.5	10	61.2	26	49.1	31	39.3	38	31.2	5	na	0
California	280	-9	53.4	18	64.6	36	55.1	30	43.6	20	33.9	13	32.8	1
Cheyney	95	9	46.3	-1	57.0	32	44.1	35	40.6	22	33.1	11	na	0
Clarion	329	-1	49.8	9	63.7	32	52.2	26	40.6	31	28.6	11	56.7	a
East Stroudsburg	292	-1	47.7	8	57.9	40	49.6	26	38.0	28	17.2	6	na	0
Edinboro	416	0	47.4	7	60.9	31	49.1	21	39.3	41	31.6	7	na	0
Indiana	721	1	50.4	9	62.1	37	50.4	29	41.0	24	30.8	8	28.3	2
Kutztown	367	1	50.9	6	64.5	33	51.9	27	41.3	31	30.6	9	72.1	a
Look Haven	185	-5	49.3	11	65.5	21	53.4	31	42.4	31	35.0	17	0.0	a
Mansfield	181	3	49.1	5	64.4	26	52.0	30	41.5	32	29.5	12	na	0
Millersville	361	2	50.8	8	64.6	33	52.7	26	41.9	30	27.3	11	na	0
Shippensburg	304	-2	54.1	8	64.3	46	52.7	23	41.5	27	31.4	4	na	0
Slippery Rock	381	-1	49.7	5	61.7	34	49.0	28	40.5	34	31.8	4	6.8	a
West Chester	571	-1	49.4	10	66.0	24	54.4	29	43.5	30	28.9	17	13.3	a
Total	4,876	a	49.9	9	62.8	33	51.3	28	41.0	30	30.1	9	28.4	a
All universities	11,761	-1	45.2	7	64.3	25	50.0	23	40.2	25	29.3	11	27.5	16

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

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

a. Rounds to less than 1 percent.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1993 and 1994.

Table 7

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT BY ACADEMIC DIVISION AND LEVEL¹
1993-94, CHANGE FROM 1992-93 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1988-89 to 1993-94)

University	Undergraduate						Master's					
	Lower division	Percentage change		Upper division	Percentage change		Total under- graduate	Percentage change		Total master's	Percentage change	
		One- year	Five-year average		One- year	Five-year average		One- year	Five-year average		One- year	Five-year average
State-related												
Lincoln	\$1,843	20%	7%	\$3,005	11%	3%	\$2,146	18%	7%	\$1,698	-18%	2%
Penn State	1,439	8	7	2,518	10	6	1,844	10	7	3,791	13	5
Pittsburgh	1,536	3	9	2,856	11	8	1,985	7	9	4,461	a	4
Temple	1,510	4	6	2,258	7	8	1,902	5	7	2,862	-4	2
Total	1,479	7	7	2,520	10	7	1,890	9	8	3,759	1	3
State-owned												
Bloomsburg	2,119	14	8	3,385	14	6	2,518	14	8	4,188	14	-8
California	2,000	12	10	3,365	9	11	2,426	10	10	3,580	14	4
Cheyney	2,725	8	2	4,639	12	2	3,230	11	2	2,489	a	-8
Clarion	2,309	14	12	4,072	13	8	2,843	13	11	4,038	2	9
East Stroudsburg	2,162	6	8	3,825	6	5	2,661	7	8	2,534	8	2
Edinboro	2,058	10	5	3,833	17	8	2,613	13	7	4,485	7	6
Indiana	1,919	16	9	3,623	13	8	2,489	15	9	5,213	5	6
Kutztown	1,954	6	8	3,924	13	6	2,655	9	8	3,851	2	9
Lock Haven	2,019	3	6	3,846	13	2	2,568	10	4	12,262	23	na
Mansfield	1,811	-1	6	4,547	11	2	2,821	11	7	3,829	10	7
Millersville	2,429	19	14	3,341	7	4	2,732	14	10	3,397	14	15
Shippensburg	2,243	12	8	3,894	8	10	2,705	9	9	3,333	a	-1
Slippery Rock	2,144	7	7	3,764	8	4	2,626	7	7	2,824	8	-3
West Chester	2,319	10	9	3,433	11	8	2,723	11	9	4,484	23	10
Total	2,127	11	8	3,712	12	7	2,638	11	8	3,797	9	5
All universities	1,796	9	8	3,009	11	7	2,234	10	8	3,773	4	4

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

- a. Rounds to less than 1 percent.
na. Not applicable.

SOURCE: Reports provided by the individual universities, 1989 to 1994.

Table 8A

LINCOLN UNIVERSITY
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
 1993-94

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total under-graduate	Master's	First professional	Doctor's
Agriculture	--	--	--	--	--	--
Architecture and environmental design	--	--	--	--	--	--
Area and ethnic studies	--	--	--	--	--	--
Business	\$1,505	\$2,123	\$1,926	--	--	--
Communications	--	--	--	--	--	--
Computer and information sciences	1,720	4,446	2,183	--	--	--
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,880	2,960	2,112	\$2,230	--	--
Engineering	--	--	--	--	--	--
Foreign languages	2,401	11,220	3,175	--	--	--
Health	--	--	--	--	--	--
Home economics	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--
Law	--	--	--	--	--	--
Letters	2,007	3,616	2,246	--	--	--
Liberal/general studies	--	--	--	--	--	--
Library and archival sciences	--	--	--	--	--	--
Life sciences	1,333	4,792	1,872	--	--	--
Mathematics	1,694	5,143	1,782	--	--	--
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	1,779	2,447	1,982	--	--	--
Parks and recreation	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	1,749	3,145	1,930	--	--	--
Physical sciences	2,529	4,886	3,056	--	--	--
Psychology	1,278	2,505	1,717	--	--	--
Public affairs and protective services	--	--	--	1,684	--	--
Social sciences	1,753	2,337	2,015	--	--	--
Trade and industrial	--	--	--	--	--	--
Visual and performing arts	--	--	--	--	--	--
Other	--	--	--	--	--	--
Total	1,843	3,005	2,146	1,698	--	--

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

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

SOURCE: Reports provided by Lincoln University, 1994.

Table 8B

PENNSYLVANIA STATE UNIVERSITY
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
 1993-94

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total under-graduate	Master's	First professional ³	Doctor's
Agriculture	\$1,672	\$2,375	\$2,192	\$4,016	--	\$10,785
Architecture and environmental design	1,435	4,601	2,935	14,740	--	16,973
Area and ethnic studies	1,314	3,240	1,811	5,290	--	11,983
Business	1,648	2,192	2,001	2,744	--	8,225
Communications	1,004	2,978	2,180	6,255	--	18,429
Computer and information sciences	1,920	2,740	2,070	6,182	--	13,790
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,221	2,557	1,985	1,636	--	5,830
Engineering	3,126	2,960	3,013	5,196	--	13,848
Foreign languages	1,577	3,212	1,927	5,747	--	10,638
Health	1,392	2,412	2,145	6,305	--	11,998
Home economics	648	2,378	1,201	2,239	--	11,185
Industrial arts	--	--	--	--	--	--
Law	--	--	--	--	--	--
Letters	1,603	2,066	1,742	3,266	--	13,825
Liberal/general studies	1,556	2,350	1,714	7,330	--	28,517
Library and archival sciences	6,621	--	6,621	--	--	--
Life sciences	1,052	1,921	1,250	9,027	--	12,464
Mathematics	1,536	2,966	1,696	3,126	--	17,256
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	1,633	2,452	1,998	2,520	--	8,948
Parks and recreation	667	1,813	1,516	15,706	--	27,381
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	1,100	2,153	1,278	7,710	--	16,500
Physical sciences	1,458	2,872	1,753	9,170	--	14,569
Psychology	640	2,370	1,154	3,582	--	7,929
Public affairs and protective services	1,556	2,068	1,960	3,972	--	9,689
Social sciences	1,055	2,654	1,521	5,191	--	12,425
Trade and industrial	3,263	7,469	3,280	--	--	--
Visual and performing arts	1,303	2,428	1,683	6,313	--	11,316
Other	--	--	--	--	--	--
Total	1,439	2,518	1,844	3,791	--	11,289

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

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

3. Excludes medical school data.

SOURCE: Reports provided by Pennsylvania State University, 1994.

Table 8C

UNIVERSITY OF PITTSBURGH
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
 1993-94

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional ³	Doctor's
Agriculture	--	--	--	--	--	--
Architecture and environmental design	--	--	--	--	--	--
Area and ethnic studies	\$1,876	\$2,987	\$2,394	\$6,405	--	\$23,080
Business	2,441	2,207	2,257	2,059	--	23,372
Communications	935	2,426	2,123	2,049	--	18,501
Computer and information sciences	1,649	3,176	1,979	3,277	--	11,026
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,462	3,145	2,480	2,600	--	7,766
Engineering	2,608	2,740	2,693	5,903	--	11,666
Foreign languages	1,973	2,232	2,043	6,838	--	13,305
Health	1,605	3,867	3,454	7,635	\$1,227	14,527
Home economics	3,540	2,875	2,888	1,349	--	--
Industrial arts	--	--	--	--	--	--
Law	1,421	--	1,421	3,325	2,224	--
Letters	1,654	1,896	1,726	5,606	--	10,286
Liberal/general studies	--	--	--	--	--	--
Library and archival sciences	--	3,521	3,521	2,245	--	9,135
Life sciences	1,242	3,351	1,790	12,476	--	16,904
Mathematics	1,728	4,018	2,039	4,556	--	14,753
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	1,458	522	1,390	--	--	--
Parks and recreation	--	--	--	--	--	--
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	1,686	5,369	2,167	10,849	--	16,813
Physical sciences	1,415	5,481	1,703	9,777	--	11,778
Psychology	753	2,323	1,055	6,964	--	8,727
Public affairs and protective services	908	1,391	1,274	3,751	--	5,843
Social sciences	1,447	2,804	1,874	8,779	--	15,578
Trade and industrial	--	--	--	--	--	--
Visual and performing arts	1,411	3,957	1,815	6,985	--	13,968
Other	--	--	--	--	--	--
Total	1,536	2,856	1,985	4,461	1,767	11,043

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

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

3. Excludes medical school data.

SOURCE: Reports provided by University of Pittsburgh, 1994.

Table 8D

TEMPLE UNIVERSITY
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
 1993-94

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total under-graduate	Master's	First professional ³	Doctor's
Agriculture	\$1,884	\$2,504	\$2,159	--	--	--
Architecture and environmental design	2,487	3,410	3,137	\$861	--	--
Area and ethnic studies	1,820	3,176	2,406	3,579	--	\$4,317
Business	1,580	1,965	1,861	2,155	--	10,128
Communications	1,285	2,541	2,060	4,157	--	7,608
Computer and information sciences	2,116	3,215	2,819	3,371	--	6,107
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,222	1,643	1,499	2,325	--	6,163
Engineering	2,977	3,936	3,703	4,739	--	4,935
Foreign languages	2,008	2,587	2,272	2,593	--	5,476
Health	2,434	1,493	1,537	2,148	\$4,321	5,479
Home economics	--	--	--	--	--	--
Industrial arts	--	--	--	--	--	--
Law	1,456	2,464	2,018	3,042	2,709	--
Letters	1,386	2,342	1,707	5,430	--	4,552
Liberal/general studies	1,082	1,046	1,071	1,144	--	--
Library and archival sciences	--	--	--	--	--	--
Life sciences	575	1,742	1,099	2,598	--	4,643
Mathematics	1,596	2,308	1,808	2,942	--	11,602
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	--	--	--	--	--	--
Parks and recreation	1,576	1,829	1,756	2,605	--	7,467
Personal and social development	--	--	--	--	--	--
Philosophy, religion and theology	2,075	2,933	2,477	5,623	--	8,775
Physical sciences	1,190	1,971	1,495	2,965	--	7,899
Psychology	966	1,727	1,354	2,587	--	5,764
Public affairs and protective services	1,366	2,310	1,977	2,337	--	6,007
Social sciences	1,293	2,104	1,675	3,085	--	6,139
Trade and industrial	--	--	--	--	--	--
Visual and performing arts	2,606	3,866	3,213	5,821	--	9,995
Other	--	--	--	--	--	--
Total	1,510	2,258	1,902	2,862	3,335	6,650

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

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

3. Excludes medical school data.

SOURCE: Reports provided by Temple University, 1994.

Table 8E
STATE-OWNED UNIVERSITIES
AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT¹
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²
1993-94

CIP classification	Undergraduate			Graduate		
	Lower division	Upper division	Total under-graduate	Master's	First professional	Doctor's ³
Agriculture	\$2,063	\$2,112	\$2,066	\$6,336	--	--
Architecture and environmental design	--	2,250	2,250	3,071	--	--
Area and ethnic studies	2,248	3,091	2,624	5,625	--	--
Business	2,189	2,967	2,669	3,410	--	\$15,848
Communications	2,198	3,443	2,748	4,745	--	--
Computer and information sciences	2,356	5,101	2,824	3,234	--	--
Consumer, personal and miscellaneous services	--	--	--	--	--	--
Education	1,823	3,385	2,736	2,959	--	7,983
Engineering	3,498	4,771	4,261	1,859	--	--
Foreign languages	2,823	5,392	3,198	4,079	--	--
Health	2,703	4,229	3,685	3,609	--	--
Home economics	1,501	2,915	2,162	11,078	--	--
Industrial arts	3,983	4,148	4,050	2,653	--	--
Law	2,145	1,929	2,029	2,306	--	--
Letters	2,218	3,512	2,460	5,449	--	4,846
Liberal/general studies	1,038	2,608	1,110	--	--	--
Library and archival sciences	3,231	4,857	3,864	3,234	--	--
Life sciences	2,213	5,383	2,834	7,220	--	39,152
Mathematics	2,281	3,804	2,470	6,037	--	--
Military sciences	--	--	--	--	--	--
Multi/interdisciplinary studies	1,876	3,229	2,365	2,784	--	--
Parks and recreation	2,060	3,160	2,640	6,885	--	--
Personal and social development	2,505	3,646	2,682	3,687	--	--
Philosophy, religion and theology	1,994	3,795	2,209	6,409	--	--
Physical sciences	2,801	8,021	3,414	10,262	--	24,123
Psychology	1,591	2,868	1,979	3,799	--	11,570
Public affairs and protective services	1,625	3,282	2,445	2,737	--	--
Social sciences	1,659	3,620	2,095	5,261	--	8,722
Trade and industrial	3,749	6,993	5,224	--	--	--
Visual and performing arts	2,416	6,019	3,161	11,453	--	--
Other	2,459	1,225	2,419	3,494	--	--
Total	2,127	3,712	2,638	3,797	--	8,122

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

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

3. Doctor's level for Indiana University only.

SOURCE: Reports provided by the individual State-owned universities, 1994.

Table 9

AVERAGE CLASS SIZES IN CLASSROOM INSTRUCTION BY ACADEMIC DIVISION AND LEVEL¹
 1993-94, CHANGE FROM 1992-93 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1988-89 to 1993-94)

University	Undergraduate									Master's		
	Lower division			Upper division			Total undergraduate					
	Class size	One-year	Five-year average	Class size	One-year	Five-year average	Class size	One-year	Five-year average	Class size	One-year	Five-year average
State-related												
Lincoln	21	-12%	0%	14	-7%	3%	19	-10%	1%	16	14%	3%
Penn State	30	-3	-1	27	0	-1	29	-3	-1	14	0	-1
Pittsburgh	29	-6	-2	26	-4	-1	28	-3	-2	18	-5	0
Temple	27	0	1	23	-4	-1	25	0	0	16	0	5
Total	29	-3	-1	25	-4	-1	28	0	-1	16	0	1
State-owned												
Bloomsburg	23	-8	-2	17	-6	0	21	-5	-1	10	-9	-6
California	31	7	0	19	6	0	26	8	0	13	0	2
Cheyney	22	-4	3	12	-14	2	18	-10	1	17	-6	6
Clarion	32	-3	-2	17	0	0	25	-4	-2	14	8	2
East Stroudsburg	27	0	-1	18	6	2	24	4	0	18	-5	2
Edinboro	26	-7	-1	17	-6	1	23	-4	0	9	-10	0
Indiana	29	-3	-1	16	-6	-1	23	-4	-2	9	-10	2
Kutztown	28	0	-1	16	-6	0	22	-4	-1	13	8	-1
Lock Haven	29	4	1	13	-24	2	21	-12	0	3	-25	na
Mansfield	28	4	0	9	-10	2	16	-6	-1	8	-11	0
Millersville	25	-4	0	19	12	9	22	0	2	14	0	2
Shippensburg	28	0	-2	16	0	a	23	0	a	15	7	3
Slippery Rock	31	0	1	16	0	1	24	-4	0	17	0	6
West Chester	23	-4	-1	15	0	-1	19	-5	-2	10	-17	0
Total	27	-4	-1	16	0	0	22	-4	-1	12	-8	2
All universities²	28	-3	-1	20	-5	-1	25	0	-1	14	-7	2

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

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

a. Class sizes for 1992-93 and 1993-94 are not comparable with those for previous years because of a change in reporting student teaching.

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1989 to 1994.

Table 10

ACADEMIC YEAR TUITION AND REQUIRED FEES FOR FULL-TIME STUDENTS BY ACADEMIC LEVEL AND RESIDENCE
1993-94, CHANGE FROM 1992-93 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1988-89 to 1993-94)

University	Undergraduate						Graduate ¹					
	In-State			Out-of-State			In-State			Out-of-State		
	Tuition and required fees	Percentage change		Tuition and required fees	Percentage change		Tuition and required fees	Percentage change		Tuition and required fees	Percentage change	
	One- year	Five-year average		One- year	Five-year average		One- year	Five-year average		One- year	Five-year average	
State-related												
Lincoln	\$3,140	6%	6%	\$4,900	12%	8%	\$4,800	10%	10%	\$6,900	10%	8%
Penn State ²	4,822	4	7	10,800	12	10	5,386	4	8	10,806	5	8
Pittsburgh ²	5,186	5	7	10,708	6	8	6,854	5	10	13,510	6	9
Temple	5,226	4	7	9,802	6	9	6,068	4	8	8,132	11	10
Average	4,594	5	7	9,053	9	9	5,777	6	9	9,837	8	9
State-owned												
Bloomsburg	3,458	13	10	7,856	22	22	3,338	13	10	5,580	26	25
California	3,760	11	10	8,158	20	22	3,608	11	9	5,850	24	22
Cheyney	3,319	13	8	7,717	22	22	3,184	12	8	5,426	26	23
Clarion	3,710	11	11	8,108	19	23	3,636	12	12	5,878	22	26
East Stroudsburg	3,664	9	13	8,062	20	24	3,520	10	12	5,762	24	26
Edinboro	3,531	12	10	7,929	21	22	3,531	13	10	5,773	26	23
Indiana	3,539	12	11	7,937	21	23	3,455	16	11	5,697	28	26
Kutztown	3,558	13	11	8,285	25	24	3,428	19	11	5,838	33	27
Lock Haven	3,509	8	12	7,907	19	24	3,509	8	na	5,751	22	na
Mansfield	3,440	9	9	7,838	19	22	3,300	9	10	5,542	23	24
Millersville	3,750	8	12	8,148	18	23	3,750	8	14	5,992	21	28
Shippensburg	3,710	10	11	8,108	20	22	3,550	9	11	5,792	23	25
Slippery Rock	3,547	8	9	7,945	19	21	3,547	8	9	5,789	22	23
West Chester	3,504	11	11	7,902	21	23	3,366	11	10	5,608	24	24
Average	3,571	10	11	7,993	20	23	3,480	11	10	5,734	24	25

1. Excludes first-professional level.

2. Main campus data only.

na. Not applicable.

SOURCE: Pennsylvania Department of Education, Colleges and Universities-Basic Student Charges, 1988-89 to 1993-94.

Table 11.

TUITION AND FEE REVENUES RELATED TO FULL-TIME EQUIVALENT STUDENTS¹
 1993-94, CHANGE FROM 1992-93 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1988-89 to 1993-94).

University	Tuition and fee revenues			Tuition and fee revenues per FTE student			
	Amount (000s)	Percentage change		Amount	One-year change	Percentage change	
		One- year	Five-year average			One- year	Five-year average
State-related							
Lincoln	\$6,635	13%	12%	\$4,430	\$590	15%	8%
Penn State ²	337,435	4	5	5,520	400	8	5
Pittsburgh	204,529	3	8	7,090	330	5	9
Temple	163,594	4	7	6,450	360	6	8
Total	712,193	4	6	6,090	380	7	7
State-owned							
Bloomsburg	26,916	13	15	3,760	540	17	13
California	21,796	7	13	3,760	400	12	15
Cheyney	5,779	6	14	4,090	250	7	10
Clarion	20,348	5	8	3,610	320	10	11
East Stroudsburg	23,207	11	17	4,400	400	10	14
Edinboro	28,188	4	16	3,880	340	10	13
Indiana	52,541	11	13	3,970	500	14	13
Kutztown	26,173	8	13	3,810	310	9	11
Lock Haven	13,940	5	19	3,960	330	9	13
Mansfield	12,692	6	16	4,110	310	8	13
Millersville	28,549	5	14	4,390	470	12	16
Shippensburg	22,959	7	13	3,840	320	9	12
Slippery Rock	27,686	7	14	3,860	340	10	13
West Chester	40,649	8	13	4,180	450	12	13
Total	351,423	8	14	3,960	400	11	13
All universities	1,063,616	5	8	5,180	400	8	8

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

2. One-year change of tuition and fee revenues based on revised data for 1992-93.

SOURCE: Tuition and fee revenues - individual State-related universities and the State System of Higher Education, Commonwealth of Pennsylvania, 1989 to 1994; FTE students - reports provided by the individual universities, 1989 to 1994.

Table 12

COMMONWEALTH APPROPRIATIONS FOR INSTRUCTION RELATED TO FULL-TIME EQUIVALENT STUDENTS¹
1993-94, CHANGE FROM 1992-93 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1988-89 to 1993-94)

University	Educational and general appropriations (000s)	Percentage change		Total instructional appropriations per FTE student			
		One- year	Five-year average	Amount	One-year change	One- year	Five-year average
State-related							
Lincoln	\$9,439	1%	3%	\$6,310	\$230	4%	0%
Penn State	198,536	5	6	3,250	250	8	7
Pittsburgh ²	123,427	3	4	4,280	220	5	4
Temple	131,689	3	3	5,200	230	5	4
Total	463,091	4	5	3,960	240	6	5
State-owned							
Bloomsburg	28,467	4	4	3,980	280	8	3
California	24,477	4	5	4,220	340	9	6
Cheyney	12,501	2	a	8,850	200	2	-2
Clarion	25,786	4	4	4,580	360	9	7
East Stroudsburg	20,569	3	4	3,900	110	3	2
Edinboro	26,624	5	4	3,660	340	10	2
Indiana	51,688	5	4	3,900	300	8	3
Kutztown	27,211	4	5	3,960	190	5	3
Lock Haven	15,523	4	4	4,410	360	9	4
Mansfield	15,034	3	3	4,870	240	5	1
Millersville	28,679	4	4	4,410	420	11	6
Shippensburg	24,958	4	4	4,180	260	7	3
Slippery Rock	28,448	4	4	3,970	260	7	3
West Chester	39,320	4	5	4,050	270	7	4
Total³	369,285	4	4	4,170	290	7	3
All universities³	832,376	4	4	4,050	260	7	4

1. Instructional appropriations include Tuition Challenge Grants for 1989-90, 1990-91 and 1993-94 only. FTE students include in-State and out-of-state undergraduate and graduate students.

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

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

a. Rounds to less than 1 percent.

SOURCE: Instructional appropriations - Governor's Executive Budget, 1990-91 to 1994-95; State System of Higher Education, Commonwealth of Pennsylvania, 1989 to 1994; and individual State-related universities, 1992 to 1994. FTE students - reports provided by the individual universities, 1989 to 1994.

Table 13

TUITION AND FEE REVENUES,
COMMONWEALTH APPROPRIATIONS FOR INSTRUCTION AND STUDENT AID PER FULL-TIME EQUIVALENT STUDENT¹
1993-94, CHANGE FROM 1992-93 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1988-89 to 1993-94)

University	Per FTE student			Ratio of total instructional appropriations to total instructional revenues			Student aid per FTE student ²
	Tuition and fee revenues	Total	Total	Percentage	Percentage change		
		instructional appropriations	instructional revenues		One-year	Five-year average	
State-related							
Lincoln	\$4,430	\$6,310	\$10,740	59%	-3%	-2%	\$273
Penn State ³	5,520	3,250	8,770	37	0	1	385
Pittsburgh	7,090	4,280	11,370	38	0	-2	378
Temple	6,450	5,200	11,650	45	0	-1	367
Total	6,090	3,960	10,050	39	0	-1	378
State-owned							
Bloomsburg	3,760	3,980	7,740	51	-4	-3	303
California	3,760	4,220	7,980	53	-2	-2	479
Cheyney	4,090	8,850	12,940	68	-1	-3	703
Clarion	3,610	4,580	8,190	56	0	-1	451
East Stroudsburg	4,400	3,900	8,300	47	-4	-4	278
Edinboro	3,880	3,660	7,540	49	2	-3	403
Indiana	3,970	3,900	7,870	50	-2	-3	450
Kutztown	3,810	3,960	7,770	51	-2	-2	283
Lock Haven	3,960	4,410	8,370	53	0	-4	426
Mansfield	4,110	4,870	8,980	54	-2	-3	424
Millersville	4,390	4,410	8,800	50	0	-3	296
Shippensburg	3,840	4,180	8,020	52	-2	-3	274
Slippery Rock	3,860	3,970	7,830	51	0	-3	422
West Chester	4,180	4,050	8,230	49	-2	-3	246
Total⁴	3,960	4,170	8,130	51	-2	-3	367
All universities⁴	5,180	4,050	9,230	44	0	-2	373

1. Tuition and fee revenues are based on collections by the individual universities. Instructional appropriations include educational and general appropriations (and Tuition Challenge Grants for 1989-90, 1990-91 and 1993-94 only). FTE students include in-State and out-of-State undergraduate and graduate students.

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

3. One-year change of tuition and fee revenues based on revised data for 1992-93.

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

a. Rounds to less than 1 percent.

SOURCE: Tuition and fee revenues - individual State-related universities and the State System of Higher Education, Commonwealth of Pennsylvania, 1989 to 1994; instructional appropriations - Governor's Executive Budget, 1990-91 to 1994-95; State System of Higher Education, Commonwealth of Pennsylvania, 1989 to 1994; and individual State-related universities 1992 to 1994; FTE students - reports provided by the individual universities, 1989 to 1994; student aid - Pennsylvania Higher Education Assistance Agency, August 1994.

III. HISTORICAL DATA

Historical Table 2

STUDENT CREDIT HOURS BY ACADEMIC DIVISION AND LEVEL¹
 TOTAL YEAR AND SUMMER 1988-89 to 1993-94
 (in thousands)

University	Total year							Summer			
	Lower division	Upper division	Total under-graduate	Master's	First professional	Doctor's	Total graduate	Grand total	Under-graduate	Graduate	Total
State-related											
Lincoln											
1988-89	27	7	34	5	na	na	5	39	1	a	1
1989-90	28	7	35	5	na	na	5	40	1	1	2
1990-91	29	9	38	5	na	na	5	43	1	1	2
1991-92	31	9	40	5	na	na	5	45	1	1	2
1992-93	30	10	40	5	na	na	5	45	1	a	1
1993-94	28	10	38	5	na	na	5	43	1	1	2
Penn State											
1988-89	1,131	558	1,689	77	na	62	139	1,828	97	21	118
1989-90	1,098	601	1,699	83	na	66	149	1,848	98	22	120
1990-91	1,091	626	1,717	82	na	72	154	1,871	104	23	127
1991-92	1,083	634	1,717	82	na	70	152	1,869	105	23	128
1992-93	1,092	611	1,703	85	na	69	154	1,857	104	23	127
1993-94	1,029	618	1,647	81	na	70	151	1,798	100	22	122
Pittsburgh											
1988-89	436	219	655	113	38	27	178	833	66	34	100
1989-90	445	219	664	113	42	27	182	846	66	34	100
1990-91	441	215	656	118	38	24	180	836	65	33	98
1991-92	440	223	663	121	36	20	177	840	63	31	94
1992-93	431	218	649	129	36	22	187	836	57	32	89
1993-94	415	215	630	129	38	22	189	819	54	33	87
Temple											
1988-89	329	289	618	69	47	24	140	758	53	16	69
1989-90	332	295	627	75	47	24	146	773	54	16	70
1990-91	284	291	575	77	48	23	148	723	56	17	73
1991-92	281	308	589	84	53	24	161	750	56	20	76
1992-93	262	305	567	87	54	24	165	732	55	21	76
1993-94	262	288	550	91	54	23	168	718	52	22	74
State-owned											
Bloomsburg											
1988-89	136	56	192	9	na	na	9	201	16	4	20
1989-90	140	59	199	10	na	na	10	209	17	4	21
1990-91	145	60	205	11	na	na	11	216	19	5	24
1991-92	146	63	209	11	na	na	11	220	19	4	23
1992-93	143	66	209	9	na	na	9	218	19	3	22
1993-94	139	64	203	9	na	na	9	212	19	3	22
California											
1988-89	113	53	166	12	na	na	12	178	11	4	15
1989-90	115	55	170	14	na	na	14	184	12	4	16
1990-91	112	57	169	14	na	na	14	183	12	4	16
1991-92	116	52	168	16	na	na	16	184	11	4	15
1992-93	109	50	159	18	na	na	18	177	10	5	15
1993-94	104	47	151	18	na	na	18	169	8	5	13
Cheyney											
1988-89	25	7	32	4	na	na	4	36	1	1	2
1989-90	27	9	36	5	na	na	5	41	2	2	4
1990-91	27	10	37	6	na	na	6	43	1	2	3
1991-92	25	10	35	5	na	na	5	40	1	2	3
1992-93	28	9	37	4	na	na	4	41	1	1	2
1993-94	27	10	37	5	na	na	5	42	1	1	2
Clarion											
1988-89	128	49	177	9	na	na	9	186	12	3	15
1989-90	128	49	177	10	na	na	10	187	12	3	15
1990-91	124	51	175	11	na	na	11	186	12	4	16
1991-92	119	51	170	9	na	na	9	179	11	3	14
1992-93	116	50	166	8	na	na	8	174	11	2	13
1993-94	111	48	159	8	na	na	8	167	10	2	12
East Stroudsburg											
1988-89	99	32	131	12	na	na	12	143	14	5	19
1989-90	105	34	139	15	na	na	15	154	15	7	22
1990-91	105	38	143	15	na	na	15	158	16	6	22
1991-92	102	38	140	16	na	na	16	156	15	7	22
1992-93	100	40	140	15	na	na	15	155	15	6	21
1993-94	97	42	139	16	na	na	16	155	13	6	19

Historical Table 1
FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC LEVEL¹
 1988-89 to 1993-94

University	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94
State-related						
Lincoln						
Total	1,317	1,394	1,469	1,540	1,531	1,496
Undergraduate	1,116	1,171	1,245	1,337	1,321	1,272
Graduate	201	223	224	203	210	224
Penn State						
Total	62,095	62,839	63,633	63,537	63,161	61,170
Undergraduate	56,271	56,641	57,223	57,224	56,739	54,879
Graduate	5,824	6,198	6,410	6,313	6,422	6,291
Pittsburgh						
Total	29,271	29,737	29,348	29,492	29,405	28,865
Undergraduate	21,814	22,107	21,873	22,097	21,638	20,998
Graduate	7,457	7,630	7,475	7,395	7,767	7,867
Temple						
Total	26,453	27,005	25,296	26,321	25,773	25,349
Undergraduate	20,614	20,898	19,143	19,617	18,910	18,340
Graduate	5,839	6,107	6,153	6,704	6,863	7,009
State-owned						
Bloomsburg						
Total	6,794	7,058	7,281	7,415	7,379	7,159
Undergraduate	6,400	6,631	6,839	6,966	6,984	6,782
Graduate	394	427	442	449	395	377
California						
Total	5,997	6,264	6,209	6,242	6,044	5,804
Undergraduate	5,509	5,673	5,630	5,581	5,307	5,047
Graduate	488	591	579	661	737	757
Cheyney						
Total	1,241	1,433	1,486	1,389	1,423	1,412
Undergraduate	1,081	1,204	1,240	1,174	1,247	1,206
Graduate	160	229	246	215	176	206
Clarion						
Total	6,284	6,312	6,260	6,028	5,863	5,633
Undergraduate	5,889	5,916	5,820	5,659	5,546	5,312
Graduate	395	396	440	369	317	321
East Stroudsburg						
Total	4,824	5,250	5,384	5,309	5,251	5,277
Undergraduate	4,344	4,634	4,760	4,645	4,645	4,629
Graduate	480	616	624	664	606	648
Edinboro						
Total	6,673	7,098	7,548	7,651	7,637	7,271
Undergraduate	6,279	6,695	7,118	7,233	7,231	6,883
Graduate	394	403	430	418	406	388
Indiana						
Total	13,165	13,698	13,976	14,255	13,696	13,249
Undergraduate	12,357	12,748	12,961	13,116	12,541	12,241
Graduate	808	950	1,015	1,139	1,155	1,008
Kutztown						
Total	6,532	6,913	7,123	7,126	6,926	6,865
Undergraduate	6,229	6,557	6,713	6,724	6,524	6,476
Graduate	303	356	410	402	402	389
Lock Haven						
Total	2,970	3,176	3,505	3,599	3,669	3,520
Undergraduate	2,970	3,176	3,505	3,599	3,661	3,511
Graduate	na	a	a	a	8	9
Mansfield						
Total	2,830	3,035	3,070	3,149	3,142	3,089
Undergraduate	2,645	2,838	2,887	2,960	2,953	2,914
Graduate	185	197	183	189	189	175
Millersville						
Total	6,914	7,030	7,072	6,959	6,919	6,510
Undergraduate	6,084	6,266	6,216	6,168	6,093	5,710
Graduate	830	764	856	791	826	800
Shippensburg						
Total	5,901	5,978	6,015	6,197	6,096	5,974
Undergraduate	5,419	5,513	5,543	5,695	5,597	5,467
Graduate	482	465	472	502	499	507
Slippery Rock						
Total	6,947	7,124	7,436	7,496	7,358	7,167
Undergraduate	6,598	6,648	6,831	6,866	6,738	6,553
Graduate	349	476	605	630	620	614
West Chester						
Total	9,583	9,889	10,237	10,219	10,048	9,715
Undergraduate	8,657	8,898	9,121	9,135	9,003	8,702
Graduate	926	991	1,116	1,084	1,045	1,013

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

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

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1989 to 1994.

Edinboro												
1988-89	138	51	189	9	na	na	9	198	12	2	14	
1989-90	148	53	201	10	na	na	10	211	12	3	15	
1990-91	154	60	214	10	na	na	10	224	12	3	15	
1991-92	153	64	217	10	na	na	10	227	14	3	17	
1992-93	150	67	217	10	na	na	10	227	14	2	16	
1993-94	142	65	207	9	na	na	9	216	14	2	16	
Indiana												
1988-89	253	118	371	19	na	b	19	390	34	6	40	
1989-90	262	120	382	23	na	b	23	405	34	7	41	
1990-91	269	119	388	24	na	b	24	412	34	7	41	
1991-92	265	128	393	27	na	b	27	420	33	8	41	
1992-93	250	126	376	28	na	b	28	404	32	8	40	
1993-94	244	123	367	19	na	5	24	391	29	7	36	
Kutztown												
1988-89	126	59	187	7	na	na	7	194	10	2	12	
1989-90	133	64	197	8	na	na	8	205	11	3	14	
1990-91	135	67	202	10	na	na	10	212	11	3	14	
1991-92	132	70	202	10	na	na	10	212	12	3	15	
1992-93	125	71	196	10	na	na	10	206	11	3	14	
1993-94	125	69	194	9	na	na	9	203	11	3	14	
Lock Haven												
1988-89	64	25	89	na	na	na	na	89	5	na	5	
1989-90	68	27	95	c	na	na	c	95	4	c	4	
1990-91	76	29	105	c	na	na	c	105	5	c	5	
1991-92	78	30	108	c	na	na	c	108	5	c	5	
1992-93	80	30	110	a	na	na	a	110	6	a	6	
1993-94	74	32	106	a	na	na	a	106	5	a	5	
Mansfield												
1988-89	60	20	80	4	na	na	4	84	5	2	7	
1989-90	63	22	85	5	na	na	5	90	5	2	7	
1990-91	62	24	86	4	na	na	4	90	5	1	6	
1991-92	62	27	89	5	na	na	5	94	5	1	6	
1992-93	61	28	89	5	na	na	5	94	5	2	7	
1993-94	55	32	87	4	na	na	4	91	5	2	7	
Millersville												
1988-89	151	52	183	20	na	na	20	203	17	13	30	
1989-90	134	54	188	18	na	na	18	206	17	11	28	
1990-91	132	54	186	21	na	na	21	207	16	14	30	
1991-92	127	58	185	19	na	na	19	204	16	12	28	
1992-93	121	62	183	20	na	na	20	203	15	13	28	
1993-94	114	57	171	19	na	na	19	190	14	13	27	
Shippensburg												
1988-89	119	43	162	12	na	na	12	174	11	4	15	
1989-90	123	42	165	11	na	na	11	176	11	4	15	
1990-91	120	46	166	11	na	na	11	177	10	4	14	
1991-92	123	48	171	12	na	na	12	183	10	4	14	
1992-93	119	49	168	12	na	na	12	180	10	4	14	
1993-94	118	46	164	12	na	na	12	176	8	4	12	
Slippery Rock												
1988-89	150	48	198	8	na	na	8	206	15	2	17	
1989-90	152	48	200	11	na	na	11	211	15	2	17	
1990-91	151	54	205	15	na	na	15	220	16	3	19	
1991-92	146	60	206	15	na	na	15	221	17	4	21	
1992-93	141	61	202	15	na	na	15	217	17	4	21	
1993-94	138	59	197	15	na	na	15	212	16	3	19	
West Chester												
1988-89	179	80	259	22	na	na	22	281	20	7	27	
1989-90	179	88	267	24	na	na	24	291	21	7	28	
1990-91	183	91	274	27	na	na	27	301	22	7	29	
1991-92	180	94	274	26	na	na	26	300	22	7	29	
1992-93	175	95	270	25	na	na	25	295	22	7	29	
1993-94	166	95	261	24	na	na	24	285	20	7	27	

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.
- na. Not applicable.

SOURCE: Reports provided by the individual universities, 1989 to 1994.

Historical Table 3
DEGREES CONFERRED¹
1988-89 to 1993-94

University	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94
State-related						
Lincoln						
Total	241	219	300	292	250	313
Bachelor's	166	134	208	207	188	220
Graduate	75	85	92	85	62	93
Penn State						
Total	9,951	10,623	11,205	11,440	11,452	11,510
Bachelor's	8,120	8,792	9,278	9,395	9,387	9,231
Graduate	1,831	1,831	1,927	2,045	2,065	2,279
Pittsburgh						
Total	6,223	6,417	6,130	6,531	6,761	6,872
Bachelor's	3,757	3,973	3,690	3,975	4,183	4,065
Graduate	2,466	2,444	2,440	2,556	2,576	2,807
Temple						
Total	5,324	5,295	5,402	5,815	5,804	5,748
Bachelor's	3,437	3,473	3,563	3,672	3,660	3,382
Graduate	1,887	1,822	1,839	2,143	2,144	2,366
State-owned						
Bloomsburg						
Total	1,235	1,380	1,432	1,517	1,568	1,593
Bachelor's	1,046	1,166	1,240	1,256	1,347	1,368
Graduate	189	194	192	261	221	225
California						
Total	949	1,050	1,132	1,213	1,241	1,194
Bachelor's	774	861	928	968	976	923
Graduate	175	189	204	245	265	271
Cheyney						
Total	144	187	211	246	238	234
Bachelor's	107	145	137	148	131	161
Graduate	37	42	74	98	87	73
Clarion						
Total	1,103	1,114	1,134	1,212	1,146	1,193
Bachelor's	955	924	952	1,050	972	1,013
Graduate	148	190	182	182	174	180
East Stroudsburg						
Total	820	902	974	987	1,057	1,023
Bachelor's	691	759	808	798	864	826
Graduate	129	143	166	189	193	197
Edinboro						
Total	1,043	1,016	1,118	1,239	1,399	1,453
Bachelor's	895	849	969	1,074	1,230	1,284
Graduate	148	167	149	165	169	169
Indiana						
Total	2,561	2,403	2,697	2,648	2,756	2,742
Bachelor's	2,182	1,921	2,285	2,241	2,293	2,254
Graduate	379	482	412	407	463	488
Kutztown						
Total	1,125	1,193	1,255	1,369	1,440	1,382
Bachelor's	1,001	1,076	1,071	1,162	1,204	1,199
Graduate	124	117	182	207	236	183
Lock Haven						
Total	462	479	533	603	615	688
Bachelor's	462	479	533	603	612	687
Graduate	na	a	a	a	3	1
Mansfield						
Total	494	507	498	610	632	656
Bachelor's	435	420	430	551	548	564
Graduate	59	87	68	59	84	92
Millersville						
Total	1,164	1,317	1,337	1,549	1,438	1,468
Bachelor's	1,043	1,170	1,167	1,162	1,266	1,293
Graduate	119	147	170	187	172	175
Shippensburg						
Total	1,447	1,252	1,408	1,491	1,543	1,546
Bachelor's	1,121	982	1,105	1,158	1,247	1,230
Graduate	326	270	303	333	296	316
Shippery Rock						
Total	1,185	1,210	1,329	1,375	1,478	1,374
Bachelor's	1,043	1,060	1,152	1,172	1,311	1,242
Graduate	140	150	177	203	167	132
West Chester						
Total	1,573	1,695	1,884	1,945	2,086	1,964
Bachelor's	1,319	1,427	1,526	1,598	1,718	1,666
Graduate	254	268	358	347	370	298

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

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

SOURCE: Reports provided by the individual universities, 1989 to 1994.

Historical Table 4

NUMBER AND AVERAGE WEEKLY STUDENT CONTACT HOURS OF FULL-TIME EMPLOYED FACULTY BY ACADEMIC LEVEL¹
FALL 1988 to FALL 1993

University	Full-time employed faculty ²						Undergraduate average weekly student contact hours						Graduate average weekly student contact hours					
	1988	1989	1990	1991	1992	1993	1988	1989	1990	1991	1992	1993	1988	1989	1990	1991	1992	1993
State-related																		
Lincoln	68	71	76	81	77	81	9.8	10.0	9.8	10.4	9.7	9.5	1.4	.8	.6	.5	1.1	.9
Penn State	2,894	2,967	3,008	3,020	2,947	2,954	6.8	6.8	6.8	6.7	6.7	6.7	1.8	1.7	1.7	1.8	1.8	1.8
Pittsburgh	1,643	1,704	1,667	1,708	1,735	1,739	4.4	4.5	4.5	4.4	4.6	4.5	3.6	3.6	3.6	3.4	3.9	3.8
Temple	1,149	1,177	1,148	1,137	1,151	1,129	5.2	5.0	4.8	4.9	5.0	4.9	3.1	3.2	3.1	3.1	3.9	3.8
Total	5,754	5,919	5,899	5,946	5,910	5,903	5.8	5.8	5.8	5.7	5.8	5.7	2.6	2.5	2.5	2.5	2.8	2.8
State-owned																		
Bloomsburg	338	349	353	353	359	360	11.4	11.1	10.6	10.6	11.1	11.2	.9	.7	.9	.8	.9	.8
California	279	293	297	263	330	285	10.7	9.7	10.2	10.2	9.9	9.2	1.3	1.1	1.3	1.1	1.2	1.2
Cheyney	99	112	88	91	73	87	11.0	11.4	10.9	10.8	11.6	10.5	.6	.9	1.0	.8	1.1	.8
Clarion	336	336	351	345	341	333	10.4	10.3	10.2	10.0	10.7	10.9	.7	.7	.7	.7	.7	.9
East Stroudsburg	243	251	254	254	260	257	10.0	10.6	10.4	10.7	11.1	10.9	.9	.8	1.0	.9	.9	1.0
Edinboro	326	371	388	401	383	375	12.9	12.3	12.5	12.8	12.3	12.5	.6	.7	.7	.6	.7	.6
Indiana	689	680	698	697	702	692	10.2	10.5	10.5	10.0	9.9	10.2	1.1	1.1	1.3	1.2	1.2	1.3
Kutztown	347	347	380	345	345	352	12.6	11.7	11.2	11.4	11.5	11.5	.5	.5	.7	.6	.6	.5
Lock Haven	171	182	193	203	205	200	12.1	11.5	12.2	12.0	12.5	11.8	na	a	a	a	.1	.1
Mansfield	166	170	172	171	171	175	10.3	10.5	11.8	10.9	10.5	10.8	.6	.6	.5	.5	.3	.4
Millersville	308	313	328	330	290	294	10.8	11.5	11.1	11.4	10.8	11.2	.6	.7	.6	.6	.8	.7
Shippensburg	310	305	310	312	310	311	9.8	9.5	9.6	9.7	9.7	9.5	.9	.9	.9	.9	.9	.9
Slippery Rock	350	361	368	373	366	383	11.6	11.5	10.9	10.8	11.0	11.0	.6	.7	.7	.8	.7	.7
West Chester	445	440	433	543	548	540	10.7	10.2	10.2	10.4	10.6	10.8	1.4	1.7	1.6	1.6	1.6	1.6
Total	4,407	4,510	4,613	4,681	4,683	4,644	11.0	10.8	10.8	10.8	10.8	10.8	.8	.9	.9	.9	.9	.9
All universities	10,161	10,429	10,512	10,627	10,593	10,547	8.0	7.9	7.9	7.9	7.9	7.9	1.8	1.8	1.8	1.8	2.0	2.0

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1. Average calculated using the full-time employed faculty in the fall term who reported a complete workweek of 100 hours or less.
 2. The number of full-time employed faculty represents those reported by each university for the fall term; sabbatical and other on-leave faculty are not included. For West Chester from 1988 to 1990 based on the academic year; for 1991, 1992 and 1993, based on the fall term.
 a. The graduate level was not included prior to Fall 1992.
 na. Not applicable.

SOURCE: Reports provided by the individual universities, 1989 to 1994.

Historical Table 5

NUMBER AND AVERAGE INSTRUCTIONAL SALARIES OF FULL-TIME EQUIVALENT INSTRUCTIONAL FACULTY BY RANK¹
 1988-89 to 1993-94
 (Dollars in thousands)

University	FTE instructional faculty	Average instructional salaries					No rank ²
		All faculty	Professor	Associate professor	Assistant professor	Instructor	
State-related							
Lincoln							
1988-89	92	\$23.1	\$34.3	\$29.0	\$23.2	\$19.6	\$15.9
1989-90	101	24.5	36.0	29.7	23.4	16.4	17.4
1990-91	109	23.5	32.6	29.1	22.0	17.4	19.5
1991-92	110	25.7	36.0	31.2	24.7	19.3	18.7
1992-93	95	29.8	37.7	33.9	28.3	23.6	25.6
1993-94	98	31.8	43.9	34.6	28.9	28.3	25.4
Penn State							
1988-89	3,356	33.3	54.5	40.3	32.5	22.6	24.0
1989-90	3,392	36.0	59.0	42.9	35.2	24.1	25.6
1990-91	3,426	37.7	62.5	44.8	36.8	27.6	25.6
1991-92	3,471	38.8	63.6	47.0	38.0	27.2	25.9
1992-93	3,456	40.0	66.3	48.0	39.1	28.4	26.6
1993-94	3,445	42.7	69.0	49.8	41.2	33.7	28.4
Pittsburgh							
1988-89	1,731	33.7	51.9	37.2	28.9	18.1	25.8
1989-90	1,748	35.9	55.8	39.7	31.4	19.7	27.1
1990-91	1,739	37.7	58.5	41.6	32.9	21.0	28.6
1991-92	1,767	40.3	62.9	44.4	35.3	23.2	30.6
1992-93	1,877	41.5	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
Temple							
1988-89	1,553	30.4	45.0	35.7	30.6	17.6	17.6
1989-90	1,559	31.9	48.1	37.3	31.2	17.9	18.3
1990-91	1,569	32.8	48.0	37.8	32.6	19.0	21.2
1991-92	1,545	36.1	55.1	42.6	34.7	19.2	21.5
1992-93	1,532	38.2	58.5	45.7	36.9	19.1	21.3
1993-94	1,504	39.7	61.9	48.3	38.3	21.6	19.5
State-owned							
Bloomsburg							
1988-89	357	35.3	44.9	37.2	29.1	23.6	na
1989-90	371	37.7	47.8	38.9	31.2	24.8	na
1990-91	374	41.8	52.2	43.2	35.0	26.1	na
1991-92	385	42.0	53.8	43.2	34.9	27.9	na
1992-93	389	43.3	56.0	45.1	35.7	28.6	na
1993-94	393	47.5	61.2	49.1	39.3	31.2	na
California							
1988-89	290	55.7	44.3	37.5	29.7	22.1	28.0
1989-90	309	39.2	49.4	40.6	32.1	22.3	33.2
1990-91	319	39.2	50.2	42.3	32.3	21.3	28.0
1991-92	306	44.6	56.7	46.8	36.3	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
Cheyney							
1988-89	92	41.0	51.7	37.3	34.9	25.1	39.0
1989-90	99	43.9	51.0	40.7	37.2	33.4	79.7
1990-91	91	46.3	53.4	44.2	37.1	32.8	41.3
1991-92	85	47.5	56.8	46.2	39.9	30.9	na
1992-93	87	46.8	58.1	45.6	40.1	37.5	31.6
1993-94	95	46.3	57.0	44.1	40.8	33.1	na
Clarion							
1988-89	336	35.6	45.3	36.5	29.6	22.6	8.7
1989-90	345	38.3	49.5	40.2	31.8	24.3	28.4
1990-91	354	40.4	51.4	42.0	33.2	25.8	18.8
1991-92	348	43.3	54.4	44.2	35.9	28.0	34.2
1992-93	353	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
East Stroudsburg							
1988-89	265	35.2	42.5	34.0	28.0	24.8	14.5
1989-90	282	37.0	45.0	36.1	30.5	18.6	46.1
1990-91	285	39.1	47.4	38.6	30.8	27.0	na
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

Edinboro							
1988-89	361	34.9	45.4	35.9	28.5	22.2	35.4
1989-90	405	37.6	46.4	39.4	30.4	23.4	na
1990-91	426	38.4	48.6	39.6	31.0	24.6	na
1991-92	437	40.5	51.7	42.2	33.3	26.7	na
1992-93	416	44.4	56.8	46.5	36.6	29.7	na
1993-94	416	47.4	60.9	49.1	39.3	31.6	na
Indiana							
1988-89	673	36.1	45.3	36.5	29.7	23.2	17.6
1989-90	681	39.0	47.7	39.1	32.4	23.8	26.4
1990-91	697	41.0	50.1	41.0	33.2	26.8	61.2
1991-92	704	44.2	54.5	44.7	36.2	25.8	28.7
1992-93	713	46.3	56.2	47.4	38.8	26.5	26.3
1993-94	721	50.4	62.1	50.4	41.0	30.8	28.3
Kutztown							
1988-89	338	37.9	46.7	38.8	31.4	24.6	41.5
1989-90	354	39.8	48.9	40.5	33.2	25.8	58.0
1990-91	366	41.8	53.1	42.9	34.6	26.5	61.0
1991-92	378	43.4	55.5	44.9	36.9	27.7	73.2
1992-93	363	47.9	59.6	48.5	38.5	29.8	71.3
1993-94	367	50.9	64.5	51.9	41.3	30.6	72.1
Lock Haven							
1988-89	159	39.1	48.9	39.5	30.5	24.3	18.7
1989-90	168	39.3	50.7	40.8	31.6	23.3	26.3
1990-91	188	40.3	53.2	42.2	33.1	23.8	22.0
1991-92	199	43.2	58.7	47.3	35.2	27.9	14.4
1992-93	194	44.6	60.8	49.4	37.5	31.4	0.0
1993-94	185	49.3	65.5	53.4	42.4	35.0	6.0
Mansfield							
1988-89	162	37.2	46.8	37.4	30.9	22.3	na
1989-90	170	38.9	48.5	40.6	33.4	24.2	na
1990-91	170	40.5	51.6	42.2	34.9	21.3	na
1991-92	176	42.5	55.0	44.6	36.6	26.6	na
1992-93	175	46.7	61.8	49.9	40.2	27.7	na
1993-94	181	49.1	64.4	52.0	41.3	29.5	na
Millersville							
1988-89	348	36.2	44.8	37.6	29.6	20.5	na
1989-90	355	38.6	48.5	40.5	32.5	23.7	na
1990-91	372	40.2	51.0	42.8	33.4	24.4	na
1991-92	366	43.0	55.1	45.3	36.9	24.9	na
1992-93	355	47.2	60.7	49.6	38.6	26.3	30.7
1993-94	361	50.8	64.6	52.7	41.9	27.3	na
Shippensburg							
1988-89	307	38.3	44.8	36.0	30.7	24.8	na
1989-90	308	41.8	48.7	39.1	32.8	26.1	na
1990-91	313	44.3	51.2	41.3	34.6	26.4	na
1991-92	315	46.5	54.2	43.9	35.6	27.1	na
1992-93	311	49.9	58.8	48.0	38.2	29.1	30.2
1993-94	304	54.1	64.3	52.7	41.5	31.4	na
Slippery Rock							
1988-89	373	37.7	45.6	39.4	30.1	26.9	na
1989-90	383	40.7	49.0	39.8	31.9	27.1	49.6
1990-91	397	39.8	50.1	39.1	33.2	27.7	6.4
1991-92	389	42.1	52.1	42.4	34.5	28.6	48.1
1992-93	384	47.3	58.4	45.9	39.4	33.9	68.3
1993-94	381	49.7	61.7	49.0	40.3	31.8	6.8
West Chester							
1988-89	521	36.5	47.1	38.5	30.3	21.8	52.0
1989-90	556	38.6	50.2	41.6	32.0	22.8	63.5
1990-91	572	40.2	53.9	43.7	33.7	23.6	56.2
1991-92	576	43.5	58.7	47.9	36.6	26.6	27.7
1992-93	576	45.0	60.8	49.8	38.9	26.6	18.0
1993-94	571	49.4	66.0	54.4	43.5	28.9	13.3

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

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

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1989 to 1994.

Historical Table 6

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT BY ACADEMIC DIVISION AND LEVEL¹
1988-89 to 1993-94

University	Lower division						Upper division						Total undergraduate						Master's					
	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94
State-related																								
Lincoln	\$1,560	\$1,554	\$1,496	\$1,487	\$1,533	\$1,843	\$2,609	\$2,844	\$3,025	\$3,013	\$2,719	\$3,005	\$1,612	\$1,809	\$1,852	\$1,838	\$1,821	\$2,146	\$1,571	\$1,579	\$1,160	\$1,788	\$2,062	\$1,698
Penn State	1,079	1,152	1,196	1,286	1,328	1,439	1,920	2,047	2,095	2,131	2,283	2,518	1,357	1,468	1,524	1,598	1,670	1,844	3,077	3,167	3,135	3,299	3,362	3,791
Pittsburgh	1,044	1,126	1,216	1,356	1,491	1,536	2,025	2,072	2,140	2,230	2,580	2,856	1,372	1,438	1,518	1,650	1,858	1,985	3,759	3,995	4,173	4,539	4,476	4,461
Temple	1,180	1,168	1,253	1,312	1,454	1,510	1,638	1,684	1,785	1,902	2,108	2,258	1,394	1,411	1,537	1,621	1,805	1,902	2,657	2,712	2,541	2,642	2,994	2,862
Total	1,092	1,154	1,218	1,310	1,388	1,479	1,870	1,961	2,032	2,097	2,296	2,520	1,371	1,454	1,529	1,617	1,739	1,890	3,232	3,352	3,370	3,602	3,706	3,759
State-owned																								
Bloomsburg	1,508	1,585	1,758	1,745	1,851	2,119	2,821	2,852	2,986	3,029	2,971	3,385	1,831	1,958	2,118	2,155	2,206	2,518	2,191	2,317	2,631	2,891	3,687	4,188
California	1,545	1,494	1,585	1,702	1,790	2,000	2,176	2,402	2,470	2,768	3,095	3,365	1,610	1,790	1,882	2,032	2,198	2,426	3,044	3,290	3,320	3,535	3,151	3,580
Cheyney	2,497	2,486	2,604	2,680	2,521	2,725	4,197	4,091	3,860	3,891	4,126	4,639	2,862	2,875	2,953	3,021	2,916	3,250	4,297	3,787	2,215	2,389	2,477	2,489
Clarion	1,450	1,571	1,742	1,906	2,034	2,309	2,896	3,273	3,391	3,659	3,603	4,072	1,848	2,041	2,224	2,433	2,510	2,843	2,748	2,881	3,126	3,467	3,966	4,038
East Stroudsburg	1,532	1,620	1,694	1,792	2,039	2,162	3,044	3,209	3,202	3,394	3,605	3,825	1,898	2,013	2,093	2,224	2,484	2,661	2,271	1,776	1,898	2,003	2,338	2,534
Edinboro	1,620	1,734	1,740	1,800	1,879	2,058	2,894	2,924	2,930	3,230	3,289	3,833	1,909	2,047	2,072	2,222	2,317	2,613	3,385	3,802	3,780	3,715	4,198	4,485
Indiana	1,303	1,361	1,453	1,482	1,649	1,919	2,349	2,716	2,834	3,043	3,207	3,623	1,700	1,787	1,877	1,991	2,173	2,489	4,084	3,971	4,150	4,385	4,972	5,213
Kutztown	1,415	1,476	1,556	1,687	1,849	1,954	3,041	3,093	3,228	3,250	3,458	3,924	1,929	2,001	2,098	2,227	2,435	2,655	2,640	2,793	2,924	3,510	3,783	3,851
Lock Haven	1,561	1,639	1,705	1,906	1,955	2,019	3,498	3,202	3,322	3,673	3,404	3,846	2,099	2,082	2,137	2,392	2,344	2,568	na	a	a	a	9,969	12,262
Mansfield	1,390	1,488	1,582	1,683	1,822	1,811	4,157	3,974	3,696	3,816	4,098	4,547	2,082	2,126	2,176	2,329	2,537	2,821	2,844	2,907	3,169	3,039	3,482	3,829
Millersville	1,432	1,599	1,722	1,934	2,036	2,429	2,749	2,779	2,934	2,901	3,123	3,341	1,804	1,941	2,075	2,236	2,406	2,732	1,956	2,026	2,367	2,481	2,542	3,397
Shippensburg	1,602	1,737	1,884	1,940	2,004	2,243	2,360	2,852	2,963	3,048	3,611	3,894	1,857	2,022	2,181	2,252	2,471	2,705	3,507	3,693	3,787	3,620	3,548	3,333
Slippery Rock	1,561	1,710	1,723	1,782	2,009	2,144	3,166	3,478	3,240	3,101	3,499	3,764	1,949	2,134	2,120	2,166	2,456	2,626	3,423	2,920	2,266	2,369	2,624	2,824
West Chester	1,612	1,783	1,825	1,953	2,117	2,319	2,461	2,594	2,708	2,951	3,081	3,433	1,874	2,049	2,118	2,296	2,456	2,723	3,001	3,262	3,270	3,761	3,653	4,484
Total	1,495	1,606	1,692	1,786	1,922	2,127	2,771	2,934	3,005	3,157	3,328	3,712	1,860	1,990	2,043	2,210	2,370	2,638	2,980	3,031	3,053	3,279	3,496	3,797
All universities	1,283	1,373	1,452	1,544	1,648	1,796	2,223	2,343	2,421	2,524	2,722	3,009	1,589	1,697	1,785	1,890	2,030	2,234	3,141	3,232	3,247	3,478	3,629	3,773

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

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

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1989 to 1994.

Historical Table 7

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER STUDENT CREDIT HOUR BY ACADEMIC DIVISION AND LEVEL¹
1988-89 to 1993-94

University	Lower division						Upper division						Total undergraduate						Master's					
	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94
State-related																								
Lincoln	\$45	\$52	\$50	\$50	\$51	\$61	\$87	\$95	\$101	\$100	\$91	\$100	\$54	\$60	\$62	\$61	\$61	\$72	\$66	\$66	\$48	\$74	\$86	\$71
Penn State	36	38	40	43	44	48	64	68	70	71	76	84	45	40	51	53	56	61	128	132	131	137	140	158
Pittsburgh	35	38	41	45	50	51	68	69	71	74	86	95	46	48	51	55	62	66	157	166	174	189	187	186
Temple	39	39	43	44	48	50	55	56	60	63	70	75	46	47	51	54	60	64	111	113	106	110	125	119
Total	36	38	41	44	46	49	62	65	68	70	77	84	46	48	51	54	58	63	135	140	140	150	154	157
State-owned																								
Bloomsburg	50	53	59	58	62	71	87	95	100	101	99	113	61	65	71	71	74	84	91	97	110	120	154	174
California	45	50	53	57	60	67	73	80	82	92	103	112	54	60	63	68	73	81	127	137	138	147	151	149
Cheyney	83	83	87	89	84	91	140	136	129	130	137	155	95	96	98	101	97	108	180	158	92	100	103	104
Clarion	48	52	58	64	68	77	97	109	113	122	120	136	62	68	74	81	84	95	114	120	130	144	165	168
East Stroudsburg	51	54	56	60	68	72	101	107	107	113	120	127	63	67	70	74	83	89	95	74	79	85	97	106
Edinboro	54	58	58	60	63	69	90	97	98	108	110	128	64	68	69	74	77	87	141	158	156	155	175	187
Indiana	43	45	48	49	55	64	85	91	94	101	107	121	57	60	63	66	72	83	170	165	173	183	207	217
Kutztown	47	49	51	56	62	65	101	103	108	108	115	131	64	67	70	74	81	89	110	116	122	146	158	160
Lock Haven	52	55	57	64	65	67	117	107	111	123	113	128	70	69	72	80	78	86	na	a	a	a	415	511
Mansfield	46	50	53	56	61	60	139	132	123	127	137	152	69	71	72	78	85	94	119	121	132	127	145	160
Millersville	48	53	57	64	68	81	92	93	98	97	104	111	60	65	69	75	80	91	82	84	100	103	106	142
Shippensburg	53	58	63	65	67	75	85	95	99	102	120	130	62	67	73	75	82	90	146	154	158	151	139	139
Slippery Rock	52	57	57	59	67	71	106	116	108	103	117	125	65	71	71	72	82	88	143	122	95	99	109	118
West Chester	54	59	61	65	71	77	82	86	90	98	103	114	62	68	71	77	82	91	125	136	136	157	152	187
Total	50	54	56	60	64	71	92	98	100	105	111	124	62	66	69	74	79	88	124	126	127	137	146	158
All universities	43	46	48	51	55	60	74	78	81	84	91	100	53	57	59	63	68	74	131	135	135	145	151	157

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

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

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1989 to 1994.

Historical Table 8

AVERAGE CLASS SIZES IN CLASSROOM INSTRUCTION BY ACADEMIC DIVISION AND LEVEL¹
1988-89 to 1993-94

University	Lower division						Upper division						Total undergraduate						Master's						
	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	
State-related																									
Lincoln	21	21	22	23	24	21	12	13	13	13	15	14	18	19	19	20	21	19	14	15	16	14	14	16	
Penn State	31	31	31	31	31	30	29	28	28	29	27	27	30	30	30	30	30	29	15	15	14	14	14	14	
Pittsburgh	33	32	30	31	31	29	27	26	25	28	27	26	31	30	28	30	29	28	18	18	17	18	19	18	
Temple	26	27	26	27	27	27	24	25	24	25	24	23	25	26	25	26	25	25	13	14	15	16	16	16	
Total	30	30	30	30	30	29	27	26	26	27	26	25	29	29	28	29	28	28	15	15	15	16	16	16	
State-owned																									
Bloomsburg	25	25	26	25	25	23	17	16	18	18	18	17	22	21	23	23	22	21	14	13	13	13	11	10	
California	31	30	28	29	29	31	19	19	19	18	18	19	26	25	24	25	24	26	12	11	11	11	13	13	
Cheyney	19	20	21	22	23	22	11	11	15	15	14	12	17	17	19	20	20	18	13	14	19	18	18	17	
Clarion	36	36	34	33	33	32	17	16	16	15	17	17	28	27	25	25	26	25	13	13	13	12	13	14	
East Stroudsburg	28	29	28	28	27	27	16	16	17	17	17	18	24	24	24	24	23	24	16	20	23	23	19	18	
Edinboro	27	26	27	26	28	26	16	15	16	17	18	17	23	22	23	23	24	23	9	9	9	10	10	9	
Indiana	31	31	32	32	30	29	17	17	17	17	16	16	25	25	25	25	24	23	8	9	9	10	10	9	
Kutztown	29	30	29	28	28	28	16	16	16	16	17	16	23	24	23	23	23	22	14	13	13	13	12	13	
Lock Haven	28	28	28	27	28	29	12	13	12	12	17	13	21	21	20	20	24	21	na	a	a	a	4	3	
Mansfield	28	29	28	27	27	28	8	9	10	9	10	9	17	18	18	17	17	16	8	9	9	9	9	8	
Millersville	25	24	23	25	26	25	13	13	14	17	17	19	20	19	19	22	22	22	13	12	13	14	14	14	
Shippensburg	32	29	28	29	28	28	23	19	20	21	16	16	29	25	25	26	23	23	13	10	13	14	14	15	
Slippery Rock	30	29	30	31	31	31	15	14	16	17	16	16	24	24	25	25	25	24	13	15	18	18	17	17	
West Chester	24	24	24	24	24	23	16	16	16	16	15	15	21	21	20	20	20	19	10	11	12	11	12	10	
Total	28	28	28	28	28	27	16	15	16	16	16	16	23	23	23	23	23	22	11	11	12	13	13	12	
All universities	29	29	29	29	29	28	21	21	21	21	21	20	26	26	25	26	25	25	13	14	14	14	15	14	

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 for 1992-93 and 1993-94 are not comparable with those for previous years because of a change in reporting student teaching.

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

na. Not applicable.

SOURCE: Reports provided by the individual universities, 1989 to 1994.

Historical Table 9

COMMONWEALTH APPROPRIATIONS FOR INSTRUCTION¹
1988-89 to 1993-94
(in millions)

University	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94
State-related						
Lincoln	\$8.3	\$9.0	\$9.0	\$9.3	\$9.3	\$9.4
Penn State	150.6	178.6	181.1	189.3	189.3	198.5
Pittsburgh ²	104.0	114.6	115.1	119.3	119.3	123.4
Temple	113.1	123.3	123.3	128.1	128.1	131.7
Total	376.0	425.5	428.5	446.0	446.0	463.0
State-owned						
Bloomsburg	23.7	26.0	26.3	28.3	27.3	28.5
California	19.4	21.6	22.6	24.3	23.4	24.5
Cheyney	12.5	12.5	12.5	12.8	12.3	12.5
Clarion	21.7	23.3	23.8	25.6	24.7	25.8
East Stroudsburg	17.3	18.8	19.1	20.6	19.9	20.6
Edinboro	21.7	23.4	24.4	26.3	25.4	26.6
Indiana	43.8	47.1	47.4	51.0	49.3	51.7
Kutztown	22.1	24.5	25.1	27.1	26.1	27.2
Lock Haven	13.0	14.0	14.3	15.4	14.9	15.5
Mansfield	13.2	14.0	13.9	15.1	14.6	15.0
Millersville	23.6	25.8	26.5	28.6	27.6	28.7
Shippensburg	21.2	23.0	23.0	24.8	23.9	25.0
Slippery Rock	23.7	25.6	26.2	28.3	27.3	28.4
West Chester	31.9	35.4	36.4	39.3	37.9	39.3
Total ³	308.8	335.0	341.5	367.5	354.6	369.3
All universities ³	684.8	760.5	770.0	813.5	800.6	832.3

1. Instructional appropriations include Tuition Challenge Grants for 1989-90, 1990-91 and 1993-94 only.

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

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

SOURCE: Governor's Executive Budget, 1990-91 to 1994-95, State System of Higher Education, Commonwealth of Pennsylvania, 1989 to 1994; and individual State-related universities, 1992 to 1994.

Historical Table 10
ACADEMIC YEAR TUITION AND REQUIRED FEES FOR FULL-TIME STUDENTS
BY ACADEMIC LEVEL AND RESIDENCE
 1988-89 to 1993-94

University	Undergraduate		Graduate ¹	
	In-State	Out-of-State	In-State	Out-of-State
State-related				
Lincoln				
1988-89	\$2,400	\$3,500	\$3,250	\$4,850
1989-90	2,400	3,500	3,250	4,850
1990-91	2,510	3,730	3,500	5,200
1991-92	2,710	4,030	4,175	5,975
1992-93	2,960	4,380	4,375	6,275
1993-94	3,140	4,900	4,800	6,900
Penn State				
Main Campus				
1988-89	3,610	7,248	3,850	7,694
1989-90	3,754	7,900	4,198	8,388
1990-91	4,048	8,444	4,520	8,960
1991-92	4,402	9,188	4,916	9,762
1992-93	4,618	9,644	5,158	10,246
1993-94	4,822	10,800	5,386	10,886
Pittsburgh				
Main Campus				
1988-89	3,836	7,516	4,632	9,162
1989-90	4,086	8,106	5,046	9,876
1990-91	4,314	8,886	5,526	10,836
1991-92	4,666	9,516	6,166	12,006
1992-93	4,922	10,066	6,516	12,706
1993-94	5,186	10,708	6,854	13,510
Temple				
1988-89	3,894	6,302	4,298	5,378
1989-90	4,046	7,308	4,610	5,786
1990-91	4,354	7,952	5,040	6,312
1991-92	4,756	8,696	5,736	7,152
1992-93	5,008	9,222	5,828	7,340
1993-94	5,226	9,802	6,068	8,132
State-owned				
Bloomsburg				
1988-89	2,290	3,712	2,190	2,462
1989-90	2,398	4,254	2,288	2,758
1990-91	2,518	4,552	2,408	3,014
1991-92	2,968	5,232	2,858	3,584
1992-93	3,068	6,462	2,958	4,426
1993-94	3,458	7,856	3,338	5,580
California				
1988-89	2,500	3,922	2,500	2,772
1989-90	2,548	4,404	2,548	2,968
1990-91	2,648	4,682	2,648	3,254
1991-92	3,128	5,392	2,900	3,626
1992-93	3,384	6,778	3,258	4,726
1993-94	3,760	8,158	3,608	5,850
Cheyney				
1988-89	2,340	3,702	2,250	2,527
1989-90	2,388	4,244	2,303	2,723
1990-91	2,488	4,522	2,383	2,989
1991-92	2,638	5,102	2,733	3,459
1992-93	2,958	6,332	2,833	4,301
1993-94	3,319	7,717	3,184	5,426
Clarion				
1988-89	2,358	3,780	2,304	2,576
1989-90	2,418	4,274	2,528	2,748
1990-91	2,661	4,787	2,541	3,169
1991-92	3,147	5,500	3,079	3,836
1992-93	3,328	6,830	3,253	4,809
1993-94	3,710	8,108	3,636	5,878
East Stroudsburg				
1988-89	2,214	3,636	2,210	2,482
1989-90	2,392	4,246	2,324	2,740
1990-91	2,642	4,676	2,502	3,108
1991-92	3,088	5,352	2,934	3,660
1992-93	3,352	6,746	3,196	4,662
1993-94	3,664	8,062	3,520	5,762

Edinboro				
1988-89	2,390	5,812	2,384	2,656
1989-90	2,458	4,294	2,482	2,852
1990-91	2,590	4,624	2,572	3,178
1991-92	3,013	5,277	2,995	3,721
1992-93	3,161	6,555	3,131	4,599
1993-94	3,531	7,929	3,531	5,773
Indiana				
1988-89	2,269	3,691	2,231	2,503
1989-90	2,484	4,340	2,404	2,728
1990-91	2,604	4,638	2,520	3,126
1991-92	3,055	5,319	2,971	3,697
1992-93	3,157	6,551	2,969	4,437
1993-94	3,539	7,937	3,455	5,697
Kutztown				
1988-89	2,322	3,744	2,202	2,474
1989-90	2,380	4,236	2,250	2,670
1990-91	2,480	4,514	2,350	2,956
1991-92	3,022	5,342	2,772	3,516
1992-93	3,160	6,639	2,880	4,385
1993-94	3,558	8,285	3,428	5,838
Lock Haven				
1988-89	2,190	3,612	na	na
1989-90	2,358	4,214	a	a
1990-91	2,468	4,502	a	a
1991-92	3,020	5,397	a	a
1992-93	3,261	6,655	3,261	4,729
1993-94	3,509	7,907	3,509	5,751
Mansfield				
1988-89	2,355	3,777	2,230	2,502
1989-90	2,435	4,309	2,318	2,738
1990-91	2,587	4,621	2,492	3,058
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
Millersville				
1988-89	2,350	3,772	2,234	2,506
1989-90	2,336	4,392	2,457	2,877
1990-91	2,636	4,670	2,636	3,242
1991-92	3,100	5,364	3,100	3,826
1992-93	3,488	6,882	3,488	4,956
1993-94	3,750	8,148	3,750	5,992
Shippensburg				
1988-89	2,396	3,818	2,290	2,562
1989-90	2,444	4,300	2,338	2,758
1990-91	2,694	4,728	2,588	3,194
1991-92	3,108	5,372	2,978	3,704
1992-93	3,388	6,782	3,258	4,726
1993-94	3,710	8,108	3,550	5,792
Slippery Rock				
1988-89	2,442	3,864	2,442	2,714
1989-90	2,504	4,360	2,504	2,924
1990-91	2,554	4,588	2,554	3,160
1991-92	3,045	5,423	3,045	3,808
1992-93	3,287	6,681	3,287	4,755
1993-94	3,547	7,945	3,547	5,789
West Chester				
1988-89	2,250	3,672	2,250	2,522
1989-90	2,308	4,254	2,398	2,818
1990-91	2,398	4,432	2,598	3,004
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	3,566	5,608

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

SOURCE: Pennsylvania Department of Education, Colleges and Universities--Basic Student Charges, 1988-89 to 1993-94.

APPENDIX: MODEL OF FTE SALARY COST DETERMINATION

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

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

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

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

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

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

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

