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

Analysis of 1997-98 Data Reported Under 1997 Appropriations Acts and Public School Code

Staff Report
General Assembly of the Commonwealth of Pennsylvania
JOINT STATE GOVERNMENT COMMISSION
108 Finance Building
Harrisburg, Pennsylvania 17120
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The cover displays the reverse of the State Seal of the Commonwealth of Pennsylvania. The reverse of this seal shows a woman, who represents liberty. Her left hand holds a wand topped by a liberty cap, a French symbol of liberty. In her right hand is drawn sword. She is trampling upon Tyranny, represented by a lion. The entire design is encircled by the legend "Both Can't Survive."

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

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

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

State-Related Universities

Lincoln (Chester)

Penn State University Park (Centre)

Commonwealth College Beaver (Beaver) Delaware (Delaware) DuBois (Clearfield) Fayette (Fayette) Hazleton (Luzerne) Mont Alto (Franklin)

New Kensington (Westmoreland)

Shenango (Mercer) Wilkes-Barre (Luzerne)

McKeesport (Allegheny)

Worthington Scranton (Lackawanna)

York (York) Other Colleges

Abington (Montgomery)

Altoona (Blair) Berks (Berks) Erie (Erie)

Great Valley (Chester) Harrisburg (Dauphin) Lehigh Valley (Lehigh) Schuylkill (Schuylkill)

Milton S. Hershey Medical Center (Dauphin)*
Pennsylvania College of Technology (Lycoming)**

Pittsburgh (Allegheny)*
Bradford Campus (McKean)

Greensburg Campus (Westmoreland)

Johnstown Campus (Cambria) Titusville Campus (Crawford)

Temple (Philadelphia)*

Ambler Campus (Montgomery) Harrisburg Center (Dauphin)

*Medical School data not included in this report.

State-Owned Universities

Bloomsburg (Columbia)

California (Washington)

Cheyney (Delaware)

Clarion (Clarion)

Venango Campus (Venango)

East Stroudsburg (Monroe)

Edinboro (Erie)

Indiana (Indiana)

Armstrong Campus (Armstrong)
Punxsutawney Campus (Jefferson)

Kutztown (Berks)

Lock Haven (Clinton)

Clearfield Campus (Clearfield)

Mansfield (Tioga)

Millersville (Lancaster)

Shippensburg (Cumberland)

Slippery Rock (Butler)

West Chester (Chester)

^{**}Not included in this report.

This 26th annual report summarizes the instructional outputs, instructional faculty salary costs, tuitions and Commonwealth instructional appropriations for Pennsylvania's State-related and State-owned universities--the Commonwealth's public universities.

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

Levels of data for 1997-98 and data trends for 1992-93 to 1997-98 are presented. Readers are cautioned to use the current historical tables for prior years' data, as some previous data have been revised in these tables.

Student credit-hour and salary data are combined for the computation of a measure of cost efficiency: instructional faculty salary cost per full-time equivalent student. Tuition and instructional appropriation data are combined for the computation of a measure of cost sharing: the percentage of total instructional revenues covered by instructional appropriations.

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



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I. DATA HIGHLIGHTS

- 1. In Fall 1997, a total of 572,559 full- and part-time students were enrolled in the 144 public and private colleges and universities in Pennsylvania. Of this total, 229,700 students (40 percent) were enrolled in the Commonwealth's public universities: 135,461 students (24 percent) in the 4 State-related universities, and 94,239 (16 percent) in the 14 State-owned universities. The main and branch campuses of Pennsylvania's public universities are listed on page iii. Compared to Fall 1996, overall student enrollments in all of Pennsylvania's colleges and universities, including the Commonwealth's public universities, increased by 1 percent.¹
- During the 1997-98 school year,² 6 million undergraduate and graduate 2. student credit hours (SCH) were generated by the public universities. These SCH were equivalent to 208,566 full-time students: 120,998 fulltime equivalent (FTE) students (58 percent) for the State-related universities, and 87,568 (42 percent) for the State-owned universities.3 (Table 1) FTE students at the State-related universities increased by 2 percent, and at the State-owned universities by 1 percent from the previous year. FTE students vary considerably by academic level at the individual universities. At Pittsburgh and Temple, almost three-quarters of the FTE students are undergraduates; both universities have first professional programs in dentistry and law. In contrast, the proportion of undergraduate FTE students is 80 percent for Lincoln, and 91 percent for both Penn State and the State-owned group.4 (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

¹Pennsylvania Department of Education, *Colleges and Universities Education Digest*, 1997-98.

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 1997-98 school year includes the summer and fall terms of 1997 plus the spring term of 1998.

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

⁴Since 1993-94, Indiana University has reported separate data for the doctor's level (previously data for this level were combined with the master's level). In 1996-97, for the first time, Slippery Rock University reported data for the first-professional level; in 1997-98 the level of these data were changed to the doctor's level. Comparisons with previous years must take these changes into account.

addition to letters and the social sciences. The State-owned universities each have specialized program missions. (Tables 3A through 3E)⁵

- 3. During the 1997-98 school year, the public universities conferred 41,343 bachelor's and graduate degrees (not including medical degrees): 24,052 degrees (58 percent) by the State-related universities, and 17,291 (42 percent) by the State-owned universities. Total degrees for the State-related and State-owned universities changed little from the preceding year.⁶ (Table 4)
- 4. Over the past five years (since 1992-93), Pennsylvania's population of 18-to 24-year-olds decreased by 14 percent, while FTE enrollments in the Commonwealth's public universities increased slightly. The nondecrease in total FTE enrollments in the public universities would appear to be attributable to an increase in the percentage of traditional students, plus an increase in the number of nontraditional students, attending these universities.
- 5. In Fall 1997, 10,513 teaching and research faculty were *employed full-time* by Pennsylvania's public universities: 5,882 full-time faculty (56 percent) by the State-related universities and 4,631 (44 percent) by the State-owned universities.⁷ The overall workweek reported by these faculty averaged 53.9 hours: 52.9 total hours for the State-related universities, and 55.3 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 11.6 per week for the State-owned group. (Table 5) Since 1992-93, average total workweek hours for the State-related universities increased by 2 percent but average student contact hours decreased by 1 percent; over

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

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

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

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

- 6. During the 1997-98 school year, the full- and part-time instructional faculty employed by the public universities were the equivalent of 11,908 full-time faculty: 6,987 FTE instructional faculty (59 percent) for the State-related universities, and 4.921 (41 percent) for the State-owned universities.⁸ The combined FTE instructional faculty increased by 1 percent from the previous year. The instructional salary for these faculty averaged \$47,500 and \$53,500 for the two public university groups, respectively.⁹ The average instructional salary for the State-related universities increased by 5 percent, but for the State-owned universities remained constant from the previous year. 10 The State-owned universities tend to utilize relatively more higher-ranked FTE faculty--professors and associate professors--in instruction than do the larger State-related universities. In contrast, Penn State, Pittsburgh and Temple provide a significant amount of instruction using 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 1992-93, the average instructional salary for the FTE instructional faculty for both the State-related and State-owned universities increased by \$7,600. However, this represents a 19 percent increase for the State-related group, and a 17 percent increase for the State-owned group. 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 1997-98 school year, the ratio of FTE students to FTE instructional faculty averaged 17.3 for the State-related universities, and

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

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

¹⁰Caveat: 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.

- 17.8 for the State-owned universities; both ratios remained largely unchanged from the previous year. (Tables 1 and 6)
- 9. During the 1997-98 school year, the average instructional faculty salary costs per FTE student for the State-related group were: \$2,100 for the undergraduate level, and \$4,556 for the master's level. For the Stateowned group the FTE instructional salary costs for these levels were \$2,907 and \$4,039, respectively. (Table 7) First professional FTE instructional salary costs averaged \$1,721 for Pittsburgh and \$3,958 for Temple; doctoral FTE instructional salary costs averaged \$12,897 for Penn State, \$12,024 for Pittsburgh, \$8,475 for Temple and \$3,786 for the State-owned universities. Statistical analysis has shown that FTE instructional salary costs vary directly with FTE instructional faculty salaries, and inversely with both average class (section) sizes and the number of classes (sections) offered per course. Since 1992-93. undergraduate FTE instructional salary costs increased by 21 percent for the State-related group, and by 23 percent for the State-owned group. FTE instructional salary costs also vary considerably by program area. (Table 8A through 8E)
- 10. Regression analysis applied to 1997-98 lower and upper division undergraduate FTE instructional salary cost, class size and instructional faculty salary data for the public universities indicates that the total annual cost savings to be expected from *decreasing* average FTE instructional faculty salaries by \$1,000 at these universities would be almost \$10 million, and from *increasing* average class (section) sizes by one student about \$18 million.¹¹
- 11. The average undergraduate class (section) size is 19 for Lincoln, 29 for Penn State, 27 for Pittsburgh, 24 for Temple, and 22 for the State-owned universities. Since 1992-93, average undergraduate class sizes declined by about 4 percent at both the State-related and State-owned universities. (Table 9)
- 12. During the 1997-98 school year, the tuition and required fees for full-time in-State undergraduate students averaged \$5,634 for the State-related universities, and \$4,265 for the State-owned universities. These tuition and fees increased by 5 percent from the previous year for the State-related universities and 3 percent for the State-owned universities.

¹¹The regression details 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.

Lincoln's tuition and fees for nonresidents exceeded those for residents by 57 percent for full-time undergraduate students, and by 65 percent for full-time graduate students. Penn State's tuition and fees for nonresident full-time undergraduates were 113 percent higher, and those for graduate students 103 percent higher than the tuition and fees for residents. Pittsburgh's nonresident tuition and fees were approximately double those for residents for both levels. For Temple, the out-of-state premium was almost 80 percent for full-time undergraduates and 38 percent for full-time graduate students. For the State-owned group, tuition and fees for nonresident undergraduates exceeded those for residents by 126 percent; nonresident graduate students paid 66 percent more than Pennsylvania residents. (Table 10)

- 13. For fiscal year 1997-98, the public universities collected 1.3 billion dollars in tuition and fee revenues. FTE student revenues averaged \$6,030 for Lincoln, \$6,930 for Penn State, \$8,440 for Pittsburgh, \$7,920 for Temple, and \$4,570 for the State-owned group. Since 1992-93, FTE student revenues increased by 31 percent for the State-related universities and 28 precent for the State-owned universities. (Table 11)
- 14. For fiscal year 1997-98, the Commonwealth's instructional appropriations to the public universities totaled \$906.6 million: \$505.6 million (56 percent) to the State-related universities and \$401.0 million (44 percent) to the State-owned universities. 12 13 These appropriations represent 85 percent of the total appropriations made specifically for instruction to the public universities and community colleges, and 71 percent of the total appropriations made for all purposes to all public and private colleges and universities in the Commonwealth. Total instructional appropriations remained virtually unchanged for the Commonwealth's public universities from the previous year. The average appropriation per FTE student was \$4,180 for the State-related group and \$4,580 for the State-owned group. (Table 12) In addition to the instructional appropriations made directly to the public universities, monies appropriated from the General Fund to the Pennsylvania Higher Education Assistance Agency totaling \$114 million went to students at the public universities through various PHEAA grant and matching-fund programs.¹⁴

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

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

¹⁴Data provided by the Pennsylvania Higher Education Assistance Agency.

- 15. For 1997-98 total instructional revenues per FTE student--tuition and fees plus the Commonwealth's instructional appropriations--averaged \$11,640 for the State-related universities and \$9,150 for the State-owned universities. (Table 13) Per student instructional revenues for the State-related universities were more than those for the State-owned universities, even though per student undergraduate instructional faculty salary costs for the State-related group were less than those for the State-owned group. (Table 7) The analysis of *total* instructional costs is beyond the scope of this report.
- 16. During the 1997-98 school year, on an FTE student basis, the ratio of Commonwealth instructional appropriations to tuition and fee revenues plus Commonwealth instructional appropriations averaged 36 percent for the State-related university group, and 50 percent for the State-owned university group. (Table 13) Since 1992-93, average FTE student tuition and fee revenues collected by the public universities increased, on a percentage basis, more than twice as much as the average direct FTE student appropriations from the Commonwealth to these institutions. Hence, the percentage of total instructional revenues from Commonwealth appropriations has decreased, causing the student share of instructional cost to increase for all of the public universities.

II. CURRENT YEAR DATA

Table 1 FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC LEVEL 1 1997-98, CHANGE FROM 1996-97 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1992-93 to 1997-9

		Tot	al		Undergraduate						
			Percenta	age change			Percenta	ge change			
	FTE	Oneyear	One	Five-year	FTE	Oneyear	One	Five-year	FTE	On	
University	students	change	year	average	students	change	year	average	stud	dents	
State-related											
Lincoln	2,064	199	11%	7%	1,641	68	4%	5%	423	}	
Penn State	67,456	1,645	2	1	61,110	1,793	3	2	6,346	-1	
Pittsburgh	28,489	751	3	-1	20,457	528	3	-1	8,032	2	
Temple	22,989	-466	-2	-2	16,643	-296	-2	-2	6,346	-1	
Total	120,998	2,129	2	а	99,851	2,093	2	а	21,147		
State-owned											
Bloomsburg	7,338	113	2	а	6,902	109	2	а	436		
California	5,422	196	4	-2	4,654	181	4	-2	768		
Cheyney	1,313	20	2	-2	1,025	-54	-5	-4	288		
Clarion	5,695	90	2	-1	5,416	116	2	а	279	-	
East Stroudsburg	5,514	189	4	1	4,857	153	3	1	657		
Edinboro	6,525	-153	-2	-3	6,132	-126	-2	-3	393	-	
Indiana	12,954	95	1	-1	11,805	66	1	-1	1,149		
Kutztown	6,892	101	1	а	6,461	78	1	а	431		
Lock Haven	3,403	120	4	-1	3,300	77	2	-2	103		
Mansfield	2,757	-44	-2	-2	2,620	-33	-1	-2	137	-	
Millersville	6,944	102	1	а	6,130	84	1	а	814		
Shippensburg	6,089	32	1	а	5,561	42	1	а	528		
Slippery Rock	6,667	-50	-1	-2	6,066	-64	-1	-2	601		
West Chester	10,055	331	3	а	9,021	256	3	а	1,034		
Total	87,568	1,142	1	-1	79,950	885	1	-1	7,618	2	
All universities	208,566	3,271	2	а	179,801	2,978	2	а	28,765	2	

^{1.} Data for each year represent the summer term preceding the academic year plus the academic year. -Fiorle equivalent students a undergraduate student credit hours by 30 and graduate student credit hours by 24.

2. In addition to master's level, graduate for Penn State, Pittsburgh, Temple, Indiana and Slippery Rock includes first-professional (€

SOURCE: Data provided by the individual universities, 1993 to 1998.

and/or doctor's levels.

a. Rounds to less than 1 percent.

Table 2

FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC DIVISION AND LEVEL¹
1997-98, CHANGE FROM 1996-97 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1992-93 to 1997-95).

	Lo	wer divisio	on	Upp	er divisior	<u>1</u>	N	laster's		<u>Fir</u>
			<u>ge change</u>			ge change			<u>ge change</u>	
	FTE	One	Five-year	FTE	One	Five-year	FTE	One I	Five-year	
University	students	year	average	students	year	average	student	s year	avera	ge
State-related										
Lincoln	1,280	3%	6%	361	9%	2%	423	45%	20%	
Penn State	38,662	-1	1	22,448	11	2	3,552	-4	а	
Pittsburgh	14,045	5	а	6,412	-1	-2	5,257	3	а	2,7
Temple	7,427	-4	-3	9,216	1	-2	3,457	-2	-1	2,8
Total	61,414	а	а	38,437	6	а	12,689	а	а	8,4
State-owned										
Bloomsburg	4,915	1	1	1,987	3	-2	436	1	2	
California	3,168	7	-3	1,486	-1	-2	768	2	1	
Cheyney	731	-4	-4	294	-7	-1	288	35	13	
Clarion	3,901	2	а	1,515	3	-2	279	-9	-2	
East Stroudsburg	3,436	3	1	1,421	3	1	657	6	2	
Edinboro	4,027	-2	-4	2,105	-2	-1	393	-6	-1	
Indiana	8,126	а	а	3,679	1	-3	875	5	b	2
Kutztown	4,261	2	1	2,200	0	-1	431	6	1	
Lock Haven	2,283	3	-3	1,017	2	1	103	72	238	
Mansfield	1,604	1	-4	1,016	-4	2	137	-7	-6	
Millersville	3,863	а	-1	2,267	3	2	814	2	а	
Shippensburg	3,959	-1	а	1,602	7	а	528	-2	1	
Slippery Rock	4,249	-1	-2	1,817	-2	-2	360	-3	b	2
West Chester	6,123	6	1	2,898	-2	-2	1,034	8	а	
Total	54,646	1	-1	25,304	1	-1	7,103	4	b	5
All universities	116,060	1	а	63,741	4	а	19,792	1	а	8,9

^{1.} Data for each year represent the summer term preceding the academic year plus the academic year. -Fixtle equivalent students are undergraduate student credit hours by 30 and graduate student credit hours by 24.

SOURCE: Data provided by the individual universities, 1993 to 1998.

^{2.} Excludes medical school data.

a. Rounds to less than 1 percent.

b. The doctor's level was included in master's level in 1992-93.

na. Not applicable.

Table 3A

LINCOLN UNIVERSITY

NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS ¹

BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
1997-98

			<u>Undergraduate</u>						
		Percentage	Lower	Percentage	Upper	Percentage		ercentage	
CIP Classification	Total	of total	division	of total	division	of total	Graduate	of total	
Agriculture									
Architecture and									
environmental design									
Area and ethnic studies									
Business	132	6%	48	4%	46	13%	38	99	
Communications									
Computer and information sciences	37	2	31	2	6	2			
Consumer, personal and									
miscellaneous services									
Education	397	19	289	23	81	22	27	6	
Engineering									
Foreign languages	105	5	92	7	13	4			
Health									
Home economics									
Industrial arts									
Law									
Letters	228	11	207	16	21	6			
Liberal/general studies									
Library and archival sciences									
Life sciences	130	6	114	9	16	4			
Mathematics	147	7	139	11	8	2			
Military sciences									
Multi/interdisciplinary studies	4	а	4	а					
Parks and recreation									
Personal and social development									
Philosophy, religion and theology	71	3	64	5	7	2			
Physical sciences	123	6	84	7	39	11			
Psychology	79	4	55	4	24	7			
Public affairs and				-					
protective services	338	16					338	80	
Social sciences	276	13	153	12	102	28	21	5	
Trade and industrial									
Visual and performing arts									
Other									
Total ³	2,064	100 1	,280	100	361	100	423	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.

SOURCE: Data provided by Lincoln University, 1998; CIP classifications - U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs* 1991.

^{2.} Graduate includes master's level only.

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

a. Rounds to less than 1 percent.

Table 3B

PENNSYLVANIA STATE UNIVERSITY

NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS ¹

BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION

1997-98

					dergraduate			
		Percentage	e Lower	Percent	age Upper	Percentage	Э	Percentag
CIP Classification	Total	of total	division	of tot	al division	of total	Grade	Pate of total
Agriculture	1,199	2%	229	1%	843	4%	127	2%
Architecture and								
environmental design	540	1	322	1	204	1	14	a
Area and ethnic studies	744	1	556	1	156	1	32	1
Business	7,453	11	2,545	7	3,965	18	943	15
Communications	1,198	2	463	1	698	3	37	1
Computer and information sciences Consumer, personal and	1,837	3	1,332	3	305	1	200	3
miscellaneous services								
Education	3,801	6	830	2	1,371	6	1,600	25
Engineering	4,749	7	1,152	3	2,692	12	905	14
Foreign languages	2,408	4	1,739	4	560	2	109	2
Health	1,973	3	673	2	1,079	5	221	3
Home economics	1,879	3	966	2	807	4	106	2
ndustrial arts								
Law								
_etters	6.370	9	4.388	11	1.692	8	290	5
iberal/general studies	125	a	13	а	98	a	14	a
ibrary and archival sciences	21	a	15	a	6	a		
Life sciences	3,537	5	2,463	6	842	4	232	4
Mathematics	6,053	9	5,362	14	547	2	144	2
Military sciences	101	a	59	а	42	a		
Multi/interdisciplinary studies	2,325	3	902	2	1,314	6	109	2
Parks and recreation	381	1	84	a	275	1	22	a
Personal and social development								
Philosophy, religion and theology	1,310	2	1,127	3	141	1	42	1
Physical sciences	5,377	8	3,987	10	918	4	472	7
Psychology	2,307	3	1,327	3	762	3	218	3
Public affairs and	,	3 1	214		-			ა 1
protective services	869	•		1	564	3	91	-
Social sciences	7,011	10	4,936	13	1,766	8	309	5
Frade and industrial	286	a	285	1	1	a		
Visual and performing arts	3,600	5	2,693	7	801	4	106	2
Other								
Total ³	67,456	100 3	88,662	100	22,448	100	6,346	100

^{1.} Data represent the summer term preceding the academic year plus the academic year. Find equivalent students are calculated by dividing undergraduate student credit hours by 30 and graduate student credit hours by 24.

SOURCE: Data provided by Pennsylvania State University, 1998; CIP classifications - U.S. Department of Education, National Center for Education Statistics, Classification of Instructional Programs 1991.

^{2.} Graduate includes master's and/or doctor's levels, and excludes medical school data.

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

a. Rounds to less than 1 percent.

Table 3C

UNIVERSITY OF PITTSBURGH

NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS ¹

BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION

1997-98

				Under	graduate				
		Percentage	Lower	Percentag	e Upper	Percentage	e F	Percentage	
CIP Classification	Total	of total	division	of total	division	of total	Graduate	e of total	
Agriculture									
Architecture and									
environmental design									
Area and ethnic studies	125	а	76	1%	45	1%	4	а	
Business	2,196	8%	364	3	626	10	1,206	15%	
Communications	103	а	12	а	22	а	69	1	
Computer and information sciences	1,101	4	640	5	196	3	265	3	
Consumer, personal and									
miscellaneous services									
Education	1,981	7	340	2	382	6	1,259	16	
Engineering	1,350	5	387	3	517	8	446	6	
Foreign languages	1,572	6	1,111	8	364	6	97	1	
Health	3,108	11	249	2	883	14	1,976	25	
Home economics	40	а			39	1	1	а	
Industrial arts									
Law	834	3					834	10	
Letters	2,622	9	1,835	13	655	10	132	2	
Liberal/general studies									
Library and archival sciences	181	1			14	а	167	2	
Life sciences	1,105	4	717	5	313	5	75	1	
Mathematics	1,793	6	1,489	11	222	3	82	1	
Military sciences	12	а	7	а	5	а			
Multi/interdisciplinary studies	223	1	186	1	34	1	3	а	
Parks and recreation									
Personal and social development									
Philosophy, religion and theology	887	3	692	5	130	2	65	1	
Physical sciences	2,072	7	1,719	12	128	2	225	3	
Psychology	1,393	5	1,020	7	282	4	91	1	
Public affairs and	,	-	,		-		-		
protective services	1,386	5	131	1	452	7	803	10	
Social sciences	3,353		2,221	16	948	15	184	2	
Trade and industrial			_, : 						
Visual and performing arts	1,051	4	849	6	154	2	48	1	
Other									
Total ³	28,489	100 1	4,045	100	6,412	100	8,032	100	

^{1.} Data represent the summer term preceding the academic year plus the academic year. **Flittle** equivalent students are calculated by dividing undergraduate student credit hours by 30 and graduate student credit hours by 24.

SOURCE: Data provided by University of Pittsburgh, 1998; CIP classifications - U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs* 1991.

^{2.} Graduate includes master's, first-professional (excluding medical school) and/or doctor's levels.

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

a. Rounds to less than 1 percent.

Table 3D

TEMPLE UNIVERSITY

NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
1997-98

				Und	ergraduate				
		Percentage	Lower	Percenta	age Upper	Percentage	F	Percentag	ge
CIP Classification	Total	of total	division	of tota	al division	of total	Graduate	of total	
Agriculture	84	а	43	1%	40	а	1		а
Architecture and									
environmental design	223	1%	77	1	145	2%	1	а	
Area and ethnic studies	307	1	130	2	115	1	62		1%
Business	2,384	10	611	8	1,146	12	627	10	
Communications	499	2	171	2	241	3	87	1	
Computer and information sciences	526	2	183	2	224	2	119	2	
Consumer, personal and									
miscellaneous services									
Education	2,143	9	408	5	1,063	12	672	11	
Engineering	466	2	106	1	312	3	48	1	
Foreign languages	643	3	323	4	281	3	39	1	
Health	2.610	11	98	1	943	10	1,569	25	
Home economics									
Industrial arts									
Law	1,597	7	137	2	126	1	1,334	21	
Letters	1,136	5	685	9	394	4	57	1	
Liberal/general studies	503	2	352	5	150	2	1	a	
Library and archival sciences									
Life sciences	433	2	180	2	216	2	37	1	
Mathematics	1,248	5	757	10	399	4	92	1	
Military sciences	6	a	2	а	4	a			
Multi/interdisciplinary studies	3	a	3	a					
Parks and recreation	153	1	37	a	80	1	36	1	
Personal and social development						· 			
Philosophy, religion and theology	401	2	187	3	163	2	51	1	
Physical sciences	892	4	474	6	357	4	61	1	
Psychology	1,272	6	356	5	466	5	450	7	
Public affairs and	1,212	O	000	J	400	Ü	400	•	
protective services	1,035	5	163	2	413	4	459	7	
Social sciences	2,506		1,138	15	1,106	12	262	4	
Trade and industrial	2,500								
Visual and performing arts	1,919	8	805	11	833	9	281	4	
Other									
Total ³	22,989	100	7,427	100	9,216	100	6,346	100	

^{1.} Data represent the summer term preceding the academic year plus the academic year. Fiithe equivalent students are calculated by dividing undergraduate student credit hours by 30 and graduate student credit hours by 24.

SOURCE: Data provided by Temple University, 1998; CIP classifications - U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs* 1991.

^{2.} Graduate includes master's, first-professional (excluding medical school) and/or doctor's levels.

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

a. Rounds to less than 1 percent.

Table 3E

STATE-OWNED UNIVERSITIES

NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS ¹

BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION

1997-98

				Unc	lergraduate			
		Percentag	e Lower	Percent	age Upper	Percentage	e F	Percentage
CIP Classification	Total	of total	division	of tota	al division	of total	Graduate	e of total
Agriculture	100	а	96	а	4	а		
Architecture and								
environmental design	18	а	2	а	12	а	4	
Area and ethnic studies	353	а	188	а	151	1%	14	a
Business	7,321	8%	2,991	5%	3,763	15	567	7
Communications	2,346	3	1,305	2	928	4	113	1
Computer and information sciences Consumer, personal and	2,247	3	1,724	3	435	2	88	1
miscellaneous services								
Education	15,933	18	5,045	9	7,073	28	3,815	50
Engineering	221	а	77	а	110	а	34	а
Foreign languages	2,303	3	1,938	4	317	1	48	1
Health	2,976	3	894	2	1,442	6	640	8
Home economics	537	1	283	1	242	1	12	а
Industrial arts	537	1	190	а	179	1	168	2
Law	125	а	64	а	45	а	16	а
Letters	8,638	10	6,805	12	1,540	6	293	4
Liberal/general studies	216	а	198	а	18	а		
Library and archival sciences	161	а	21	а	34	а	106	1
Life sciences	3,935	4	2,988	5	763	3	184	2
Mathematics	5,184	6	4,552	8	494	2	138	2
Military sciences	122	а	102	а	20	а		
Multi/interdisciplinary studies	289	а	217	а	50	а	22	а
Parks and recreation	737	1	372	1	326	1	39	1
Personal and social development	760	1	588	1	133	1	39	1
Philosophy, religion and theology	1,982	2	1,665	3	287	1	30	а
Physical sciences	4,622	5	4,026	7	541	2	55	1
Psychology	5,283	6	3,136	6	1,568	6	579	8
Public affairs and								
protective services	1,651	2	726	1	829	3	96	1
Social sciences	12,662	14	9,653	18	2,640	10	369	5
Trade and industrial	44	a	33	а	11	а		
Visual and performing arts	6,124	7	4,636	8	1,349	5	139	2
Other	160	а	144	а	1	а	15	а
Total ³	87,568	100	54,646	100	25,304	100	7,618	100

^{1.} Data represent the summer term preceding the academic year plus the academic year. Fiithe equivalent students are calculated by dividing undergraduate student credit hours by 30 and graduate student credit hours by 24.

SOURCE: Data provided by the individual Statewned universities, 1998; CIP classifications - U.S. Department of Education, National Center for Education Statistics Classification of Instructional Programs 1991.

^{2.} Graduate includes master's level for all universities and doctor's level for Indiana and Slippery Rock.

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

a. Rounds to less than 1 percent.

Table 4 DEGREES CONFERRED¹ 1997-98, CHANGE FROM 1996-97 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1992-93 to 1997-98).

		Tota	al			Bache	elor's			
			Percent	age change			Percenta	ge change		
		Oneyear	One	Five-year		Oneyear	One	Five-year	On	
University	Degrees	change	year	average	Degrees	chang			Degrees	
State-related										
Lincoln	318	-10	-3%	5%	185	-34	-16%	а	133	
Penn State	11.686	202	2	a	9.059	66	1	-1%	2,627	
Pittsburgh	6,514	-154	-2	-1	3,854	-108	-3	-2	2,660	
Temple	5,534	62	1	-1	3,212	142	5	-2	2,322	
Total	24,052	100	а	а	16,310	66	а	-1	7,742	
State-owned										
Bloomsburg	1,464	-5	а	-1	1,239	8	1	-2	225	
California	1,238	-17	-1	а	921	15	2	-1	317	
Cheyney	274	11	4	3	178	31	21	4	96	
Clarion	1,010	6	1	-2	850	-13	-2	-3	160	
East Stroudsburg	1,047	13	1	а	821	33	4	-1	226	
Edinboro	1,251	-47	-4	-2	1,066	-28	-3	-3	185	
Indiana	2,604	158	6	-1	2,060	104	5	-2	544	
Kutztown	1,313	-49	-4	-2	1,111	-36	-3	-2	202	
Lock Haven	582	-4	-1	а	557	-26	-4	а	25	
Mansfield	540	-41	-7	-3	456	-34	-7	-3	84	
Millersville	1,439	41	3	а	1,257	38	3	а	182	
Shippensburg	1,362	-109	-7	-2	1,058	-103	-9	-3	304	
Slippery Rock	1,264	-102	-7	-3	1,107	-46	-4	-3	157	
West Chester	1,903	62	3	-2	1,509	20	1	-2	394	
Total	17,291	-83	а	-1	14,190	-37	а	-2	3,101	
All universities	41,343	17	а	-1	30,500	29	а	-2	10,843	

SOURCE: Data provided by the individual universities, 1993 to 1998.

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

a. Rounds to less than 1 percent.

Table 5

NUMBER AND WORKWEEKS OF FULL-TIME EMPLOYED FACULTY BY TYPE OF ACTIVITY
FALL 1997, AND PERCENTAGE CHANGE FROM FALL 1996

							Average v	veekly hour	Percentage universesearch change ser 11.5 11% 16.9 -1 7. 18.4 -1 12. 13.7 -1 12. 16.7 -1 10. 8.8 -2 17. 7.4 1 21. 6.6 0 18. 8.2 -4 13. 8.2 -9 17. 8.7 4 14. 9.1 -8 17. 8.4 0 16. 6.7 -4 17. 9.6 1 19. 9.5 -8 17. 7.7 -4 17. 8.7 0 18.		
			Student	contact		Instruc-				0	
	Full-time	Under	Percentage		Percentage	tional	Percentage	Р	ercentage	unive	
University	employed faculty	graduate	change	Graduate	change	suppoit	change	Research	change	ser	
State-related											
Lincoln	94	10.4	1%	.9	0%	20.2	3%	11.5	119	%	
Penn State	2,975	6.8	1	1.7	-6	19.4	0	16.9	-1	7.	
Pittsburgh	1,780	4.4	0	3.8	-5	13.8	-1	18.4	-1	12.	
Temple	1,033	5.4	-4	3.7	-5	18.8	2	13.7	-1	12.	
Total	5,882	5.9	0	2.6	-7	17.6	0	16.7	-1	10.	
State-owned											
Bloomsburg	372	11.2	-1	.8	0	17.3	-1	8.8	-2	17.	
California	257	10.5	5	1.7	6	17.9	3	7.4	1	21.	
Cheyney	87	11.0	0	1.0	0	15.6	0	6.6	0	18.	
Clarion	339	10.5	-4	.8	0	18.4	3	8.2	-4	13.	
East Stroudsburg	246	11.2	3	1.1	0	18.2	7	8.2	-9	17.	
Edinboro	345	13.2	3	1.0	11	17.6	3	8.7	4	14.	
Indiana	726	10.1	-1	1.1	-8	16.8	-2	9.1	-8	17.	
Kutztown	364	11.3	3	.6	20	16.7	3	8.4	0	16.	
Lock Haven	197	11.1	2	.1	0	17.9	-1	6.7	-4	17.	
Mansfield	161	11.1	5	.1	-75	20.6	-3	9.6		19.	
Millersville	324	10.6	5	.7	-12	16.4	5	9.5	-8	17.	
Shippensburg	299	9.8	-4	1.0	11	17.5	-2		-4	17.	
Slippery Rock	371	9.4	-5	.8	0	18.5	1	-	-	18.	
West Chester	543	10.3	-3	1.5	0	17.3	-2	12.0	-2	19.	
Total	4,631	10.7	0	.9	0	17.5	1	8.8	-4	17.	
All universities	10,513	7.9	0	1.9	-5	17.6	1	13.3	-1	13.	

^{1.} The number of full-time employed faculty represents those reported by each university for the fall term; sabbatical and other on-leave faculty

SOURCE: Data provided by the individual universities, 1997 and 1998.

^{2.} Averages calculated for the fultime employed faculty who reported complete workweeks of 100 hours or less for the fall term.

^{3.} Includes course preparation and evaluation.

^{4.} Includes public service, institutional support and student services.

a. Rounds to less than 1 percent.

Table 6 NUMBER AND AVERAGE INSTRUCTIONAL SALARIES OF FULL-TIME EQUIVALENT INSTRUCTIONAL FACULTY AND PERCENTAGE 1997-98 (Dollars in thousands)

	I	FTE	,	Average						
		nal faculty	instructi	onal salary		essor	<u>Associate</u>	<u>professo</u> r	Assistant	<u>orofessor</u>
University	- Number	Percentage change 199697 to 199798	Amount	Percentage change 199697 to 199798	Average instruc- tional salary	Percent- age of faculty	Average instruc- tional salary	Percent- age of faculty	Average instruc- tional salary	Percent- age of faculty
State-related										
Lincoln	135	12%	\$32.4	-2%	\$54.1	15%	\$39.8	14%	\$29.8	33%
Penn State	3,654	3	48.1	6	83.6	16	56.7	19	46.3	22
Pittsburgh	1,833	-1	47.8	6	75.0	21	52.0	25	41.0	19
Temple	1,365	-4	47.1	2	72.0	30	56.1	23	41.0	15
Total	6,987	а	47.5	5	77.5	20	54.9	21	43.7	20
State-owned										
Bloomsburg	405	2	52.7	2	67.7	27	54.7	35	42.5	29
California	279	3	53.4	-1	66.8	40	54.8	29	44.8	13
Cheyney	103	4	51.0	2	63.4	30	54.0	27	45.3	25
Clarion	326	а	53.9	2	69.4	32	58.0	26	42.6	31
East Stroudsburg	277	4	55.4	-2	68.8	37	59.6	28	44.2	24
Edinboro	387	-2	53.1	3	68.9	26	55.6	25	45.2	42
Indiana	742	2	54.4	1	71.2	33	56.4	27	44.0	27
Kutztown	374	2	55.0	1	72.0	30	57.9	29	44.0	28
Lock Haven	194	5	50.0	-3	74.0	20	55.8	29	44.8	27
Mansfield	171	-2	51.7	-6	68.5	31	51.1	33	41.7	26
Millersville	406	2	52.7	1	67.4	35	55.5	24	42.4	28
Shippensburg	308	0	56.2	-1	71.6	38	58.5	17	43.8	41
Slippery Rock	358	-1	57.1	1	68.8	33	60.6	27	47.1	31
West Chester	591	3	49.9	1	68.0	25	55.8	29	45.4	21
Total	4,921	1	53.5	а	69.3	32	56.4	27	44.1	28
All universities	11,908	1	50.0	3	73.2	25	55.6	24	43.9	23

^{1.} Average instructional salaries are calculated by dividing the total instructional salaries paid to all staff members in the respective ranks by their t function. One full-time equivalent faculty represents one fullime workload for two terms (one academic year). The summer term is treated as one term 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 allonranked personnel, including lecturers, ad

SOURCE: Data provided by the individual universities, 1997 and 1998.

graduate assistants and volunteers.

a. Rounds to less than 1 percent.

na. Not applicable.

Table 7

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT BY ACADEMIC DIVISION 1997-98, CHANGE FROM 1996-97 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1992-93 to 1997-97).

				U	ndergradu	uate				
			<u>ge change</u>	<u> 1</u>	Percentag		Total	Percen		
	Lower	One	Five-year	Upper	One- Fi	ive-year	under	One-	Five	year T
University	division	year	average	division	year	average	gradua	ate	year 	average
State-related										
Lincoln	\$1,773	0%	3%	\$3,738	-3%	7%	\$2,205		a	4%
Penn State	1,519	4	3	2,816	3	5	1,995	5%	4	5
Pittsburgh	1,724	2	3	3,359	8	6	2,237	4	4	5
Temple	1,939	2	7	2,603	а	5	2,307	1	6	3
Total	1,622	3	3	2,864	3	5	2,100	4	4	4
State-owned										
Bloomsburg	2,221	а	4	4,226	3	8	2,798	2	5	4
California	2,207	-1	5	3,626	2	3	2,660	-1	4	
Cheyney	3,674	9	9	6,165	17	10	4,388	11	10	2
Clarion	2,259	-1	2	4,769	а	6	2,961	а	4	5
East Stroudsburg	2,300	2	3	3,972	-6	2	2,789	-2	2	2
Edinboro	2,453	4	6	4,176	5	5	3,044	4	6	4
Indiana	2,062	2	5	4,535	3	8	2,832	2	6	6
Kutztown	2,056	2	2	4,566	1	6	2,910	1	4	4
Lock Haven	2,049	-12	1	4,638	18	7	2,847	1	4	2
Mansfield	2,170	-3	4	4,717	-6	3	3,158	-5	5	4
Millersville	2,776	3	7	3,661	1	3	3,103	2	6	2
Shippensburg	2,263	-4	3	3,984	1	2	2,758	-1	2	2
Slippery Rock	2,482	а	5	4,359	4	5	3,044	2	5	4
West Chester	2,291	-2	2	3,872	6	5	2,799	а	3	4
Total	2,289	а	4	4,241	2	5	2,907	1	5	4
All universities	1,936	2	3	3,411	2	5	2,459	2	4	4

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

SOURCE: Data provided by the individual universities, 1993 1998.

a. Rounds to less than 1 percent.

b. The master's level included the doctor's level in 1992-93.

Table 8A

LINCOLN UNIVERSITY

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT ¹
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
1997-98

		Undergradu	ate			
			Total		Graduate_	
	Lower	Upper	under		First pre	<u> </u>
CIP classification	division	division	graduate	Master's	fessional	Doctor's
Agriculture						
Architecture and						
environmental design						
Area and ethnic studies						
Business	\$1,228	\$3,943	\$2,550	\$2,775		
Communications Computer and						
information sciences Consumer, personal and	1,612	3,592	1,927			
miscellaneous services						
Education	1,752	2,691	1,958	2,479		
Engineering						
Foreign languages	2,132	6,659	2,675			
Health						
Home economics						
Industrial arts						
Law						
Letters	1,684	5,353	2,020			
Liberal/general studies Library and archival						
sciences						
Life sciences	1,045	5,150	1,541			
Mathematics	1,885	5,938	2,093			
Military sciences Multi/interdisciplinary						
studies	1,331		1,331			
Parks and recreation Personal and social						
development Philosophy, religion						
and theology	1,274	4,337	1,557			
Physical sciences	3,154	4,007	3,426			
Psychology Public affairs and	1,801	4,559	2,644			
protective services				1,560		
Social sciences	1,813	3,082	2,321	2,404		
Trade and industrial						
Visual and performing arts						
Other						
Total	1,773	3,738	2,205	1,767		

^{1.} The average instructional faculty salary cost per fullme 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 fullime equivalent students for that level. For individual instruction, one course (assigned) credit is attributed to every three student credit hours generated.

SOURCE: Data provided by Lincoln University, 1998; CIP classifications - U.S. Department of Education, National Center for Education Statistics Classification of Instructional Programs 1991.

Table 8B

PENNSYLVANIA STATE UNIVERSITY

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT ¹
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
1997-98

	-	<u>Undergradu</u>				
	Lawar	Llanar	Total		Graduate First pre	
	Lower	Upper	under		•	
CIP classification	division	division	graduate 	Master's	fession 2 l	Doctor's
Agriculture	\$2,156	\$2,276	\$2,250	\$8,754		\$10,000
Architecture and	4.470	4.040	0.500	4.4.674		44.070
environmental design	1,170	4,616	2,506	14,671		14,670
Area and ethnic studies	1,612	4,457	2,235	7,793		10,095
Business	1,519	2,389	2,049	5,005		28,334
Communications Computer and	897	2,593	1,917	13,004		14,930
information sciences	1,991	3,613	2,293	2,740		17,846
Consumer, personal and						
miscellaneous services						
Education	1,519	3,068	2,484	2,063		6,613
Engineering	3,548	4,065	3,910	9,042		16,184
Foreign languages	1,588	2,268	1,754	6,529		12,618
Health	1,501	2,893	2,358	6,461		15,755
Home economics	671	2,029	1,289	3,512		11,307
Industrial arts						
Law						
Letters	1,793	2,235	1,916	6,656		11,181
Liberal/general studies	2,954	2,637	2,673	4,806		
Library and archival						
sciences	1,556	604	1,294			
Life sciences	1,267	2,434	1,564	7,439		13,650
Mathematics	1,765	3,620	1,936	2,649		14,148
Military sciences						
Multi/interdisciplinary						
studies	1,528	2,232	1,944	5,568		7,236
Parks and recreation	678	1,349	1,191	11,919		12,206
Personal and social						
development						
Philosophy, religion						
and theology	1,103	3,543	1,374	7,120		14,328
Physical sciences	1,566	3,768	1,978	10,340		16,531
Psychology	614	2,181	1,186	6,236		7,464
Public affairs and		, -	,	-,		, -
protective services	1,098	2,032	1,775	4,552		15,354
Social sciences	1,101	2,635	1,505	9,165		14,657
Trade and industrial	3,380	2,000	3,380			
Visual and performing arts	1,253	4,058	1,896	9,486		9,332
Other	1,200					
-						
Total	1,519	2,816	1,995	5,048		12,897

^{1.} The average instructional faculty salary cost per fullme 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 fullime equivalent students for that level. For individual instruction, one course (assigned) credit is attributed to every three student credit hours generated.

SOURCE: Data provided by Pennsylvania State University, 1998; CIP classifications - U.S. Department of Education, National Center for Education Statistics (Classification of Instructional Programs, 1991.

^{2.} Excludes medical school data.

Table 8C
UNIVERSITY OF PITTSBURGH

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT 1 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION

1997-98

		Undergradu				
			Total		Graduate_	
	Lower	Upper	under		First pre	
CIP classification	division	division	graduate	Master's	fession 2 l	Doctor's
Agriculture Architecture and						
environmental design	 04 757	 #4.040	то 7 0.4	 #0.000		фо.4.000
Area and ethnic studies	\$1,757	\$4,310	\$2,704	\$3,636		\$24,392
Business	2,112	2,273	2,214	3,074		31,470
Communications Computer and	1,971	5,132	4,027	2,704		13,821
information sciences Consumer, personal and	1,302	3,407	1,795	3,368		13,859
miscellaneous services						
Education	1,564	2,455	2,036	2,921		8,145
Engineering	3,409	3,854	3,664	8,096		13,556
Foreign languages	2,106	2,890	2,299	8,005		16,347
Health	2.117	4,087	3,653	8,420	\$1,214	10,49
Home economics	,	2,900	2,900	10,448	· /	-
Industrial arts		_,	_,			_
Law					2,356	_
Letters	1,915	2,822	2,154	4.487	_,000	13,39
Liberal/general studies Library and archival		-,				-
sciences		1.777	1,777	2.903		12,830
Life sciences	1,889	4,370	2,643	15,743		25,18
Mathematics	1,667	3,445	1,897	7,702		16,67
Military sciences Multi/interdisciplinary						-
studies	1,399	5,203	1.991	1.891		_
Parks and recreation						_
Personal and social development						_
Philosophy, religion						
and theology	1,765	4,056	2,127	12,385		23,73
Physical sciences	1,755	7,543	2,156	12,822		12,00
Psychology	930	2,374	1,243	11,064		12,91
Public affairs and		,	,	•		•
protective services	1,712	2,063	1,984	3,627		6,849
Social sciences	1,586	3,569	2,179	10,520		16,90
Trade and industrial						
Visual and performing arts Other	1,410 	5,018 	1,963 	8,087 		16,74 -
Total	1,724	3,359	2,237	5,287	1,721	12,024

^{1.} The average instructional faculty salary cost per fullme 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 fullime equivalent students for that level. For individual instruction, one course (assigned) credit is attributed to every three student credit hours generated.

SOURCE: Data provided by University of Pittsburgh, 1998; CIP classifications - U.S. Department of Education, National Center for Education StatisticsClassification of Instructional Programs 1991.

^{2.} Excludes medical school data.

TEMPLE UNIVERSITY

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT ¹
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
1997-98

Table 8D

	Undergraduate					
		_	Total		Graduate_	
	Lower	Upper	under		First pre	
CIP classification	division	division	graduate	Master's	fession 2 l	Doctor's
Agriculture	\$2,255	\$3,094	\$2,661	\$2,510		
Architecture and						
environmental design	2,481	3,874	3,390	3,432		
Area and ethnic studies	2,016	2,787	2,378	5,140		\$6,420
Business	1,743	2,429	2,191	2,487		12,850
Communications Computer and	1,623	3,051	2,458	4,357		7,421
information sciences Consumer, personal and	1,705	3,351	2,611	3,108		8,732
miscellaneous services						
Education	1,638	2,262	2,089	2,552		5,077
Engineering	3,585	4,051	3,933	7,659		25,314
Foreign languages	2,316	3,217	2,735	2,899		6,997
Health	1,562	1,374	1,392	2,694	\$4,633	7,523
Home economics	,	,	,	, 	· · ·	´
Industrial arts						
Law	1,693	3,324	2,473	3,895	3,416	
Letters	2,207	2,748	2,405	8,666		6,634
Liberal/general studies	1,198	1,111	1,172	3,417		
Library and archival sciences						
Life sciences	843	2,166	1,565	3,977		8,684
Mathematics	2,169	2,802	2,388	3,436		20,496
Military sciences	2,109	2,002	2,300	3,430		20,490
Multi/interdisciplinary						
studies	802		802			
Parks and recreation Personal and social	1,969	4,239	3,516	3,407		9,942
development Philosophy, religion						
and theology	2,561	3,729	3,104	8,825		13,432
Physical sciences	1,869	2,670	2,213	4,274		12,183
Psychology Public affairs and	1,210	1,944	1,626	3,066		8,051
protective services	1,469	2,241	2,023	2,738		7,009
Social sciences	1,819	2,585	2,196	3,574		8,465
Trade and industrial						,
Visual and performing arts	2,615	3,606	3,119	6,082		9,942
Other						
Total	1,939	2,603	2,307	3,280	3,958	8,475

^{1.} The average instructional faculty salary cost per fullme 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 fullime equivalent students for that level. For individual instruction, one course (assigned) credit is attributed to every three student credit hours generated.

SOURCE: Data provided by Temple University, 1998; CIP classifications - U.S. Department of Education, National Center for Education Statistics Classification of Instructional Programs 1991.

Excludes medical school data.

Table 8E

STATE-OWNED UNIVERSITIES

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT ¹
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
1997-98

	Undergraduate					
CIP classification	Total			Graduate		
	Lower	Upper	under		Firstpro-	
	division	division	graduate	Master's	fessional	Doctor's
Agriculture	\$2,383	\$3,703	\$2,436			
Architecture and						
environmental design	3,968	2,878	3,033	\$3,376		
Area and ethnic studies	2,278	3,782	2,948	4,173		
Business	2,235	3,513	2,947	3,820		
Communications Computer and	2,042	3,926	2,825	5,581		
information sciences Consumer, personal and	2,578	4,533	2,972	4,273		
miscellaneous services						
Education ²	1,860	3,684	2,925	2,958		\$5,789
Engineering	5,421	5,933	5,722	3,877		
Foreign languages	3,106	6,352	3,563	4,704		
Health ³	2,859	5,019	4,192	4,927		1,259
Home economics	1,740	3,683	2,636	15,833		
Industrial arts	4,645	5,747	5,180	2,677		
Law	2,139	2,438	2,263	3,211		
Letters ²	2,319	3,863	2,604	6,683		5,644
Liberal/general studies	1,196	1,424	1,215			
Library and archival	.,	.,	.,			
sciences	2,441	4,403	3,654	3,919		
Life sciences	2,573	6,243	3,320	7,232		
Mathematics	2,487	4,942	2,727	6,040		
Military sciences Multi/interdisciplinary						
studies	2,077	5,142	2,651	5,344		
Parks and recreation Personal and social	2,542	3,643	3,056	7,527		
development Philosophy, religion	2,644	5,327	3,139	4,013		
and theology	2,107	3,646	2,333	5,396		
Physical sciences	3,018	9,981	3,843	13,133		
Psychology ² Public affairs and	1,726	3,451	2,301	3,606		7,165
protective services	1,852	3,451	2,704	3,564		
Social sciences ²	1,758	4,053	2,250	6,520		5,996
Trade and industrial	4,927	9,232	6,003	-,		
Visual and performing arts	2,676	6,567	3,553	11,824		
Other	5,412	9,112	5,437	1,736		
Total	2,289	4,241	2,907	4,039		3,786

^{1.} The average instructional faculty salary cost per fullme 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 fullime equivalent students for that level. For individual instruction, one course (assigned) credit is attributed to every three student credit hours generated.

SOURCE: Data provided by the individual Statewned universities, 1998; CIP classifications - U.S. Department of Education, National Center for Education Statistics *Classification of Instructional Programs*, 1991.

^{2.} Doctor's level for Indiana University only.

^{3.} Doctor's level for Slippery Rock University only.

Table 9 AVERAGE CLASS SIZES IN CLASSROOM INSTRUCTION BY ACADEMIC DIVISION AND LEVEL 1 1997-98, CHANGE FROM 1996-97 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1992-93 to 1997-

						graduate			
	L	ower divi		U	pper divis		Total	undergra	
			<u>age change</u>			ge change			ge change
	Class	One	Five-year	Class		Five-year	Class		Five-year
University	size	year	average	size	year 	average	size	yea:	average
State-related									
Lincoln	22	-4%	-2%	12	0%	-4%	19	0%	-2%
Penn State	31	3	0	27	4	0	29	0	-1
Pittsburgh	30	3	-1	22	-4	-4	27	0	-1
Temple	26	0	-1	22	0	-2	24	0	-1
Total	29	0	-1	24	0	-2	27	0	-1
State-owned									
Bloomsburg	24	4	-1	15	0	-3	20	0	-2
California	29	-3	0	17	0	-1	24	0	0
Cheyney	17	-6	-5	11	0	-4	15	0	-5
Clarion	33	0	0	14	-7	-4	24	-4	-2
East Stroudsburg	29	0	1	19	6	2	25	4	2
Edinboro	25	0	-2	17	0	-1	22	0	-2
Indiana	28	0	-1	13	-7	-5	21	0	-2
Kutztown	29	-3	1	16	7	-1	22	-4	-1
Lock Haven	30	0	1	18	-18	1	25	-7	1
Mansfield	26	0	-1	9	12	-2	15	7	-2
Millersville	25	0	-1	20	0	4	23	0	1
Shippensburg	29	4	1	21	5	6	26	4	3
Slippery Rock	31	0	0	16	0	0	24	0	-1
West Chester	24	0	0	14	0	-1	20	0	0
Total	27	0	-1	15	0	-1	22	0	-1
All universities	28	0	-1	19	0	-2	24	0	-1

^{1.} Average class size for each level is calculated by dividing total classroom student credit hours by total classroom course (assigne a. The master's level included the doctor's level prior to 1996-97.

Table 10 ACADEMIC YEAR TUITION AND REQUIRED FEES FOR FULL-TIME STUDENTS BY ACADEMIC LEVEL AND RESIL 1997-98, CHANGE FROM 1996-97 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1992-93 to 1997-95).

			Under	graduate					Gr	radua
		In State			Out-of-State)	-	In-State		_
	Tuition			Tuition			Tuition			-
	and		age change	and		ge change	and		<u>ige change</u>	
	required	One	Five-year	required		Five-year	required		Five-year	re
University	fees	year 	average	fees	year	average	fees	yea	ır averag	e
State-related										
Lincoln	\$4,392	5%	10%	\$6,910	6%	12%	\$5,576	а	5%	
Penn State ²	5,832	4	5	12,406	4	6	6,502	4%	5	
Pittsburgh ²	6,164	5	5	12.928	6	6	8.154	5	5	16,
Temple	6,150	6	5	11,032	3	4	7,672	8	6	10,
Average	5,634	5	6	10,819	5	6	6,976	4	6	12,
State-owned										
Bloomsburg	4,278	3	8	9,634	3	10	4,133	3	8	6,
California	4,475	4	6	9,831	3	9	4,377	4	7	7,
Cheyney	4,023	3	7	9,379	3	10	3,850	3	7	6,
Clarion	4,378	3	6	9,734	3	9	4,278	3	6	7,
East Stroudsburg	4,322	3	6	9,678	3	9	4,166	3	6	6,
Edinboro	4,193	3	7	9,549	3	9	4,366	7	8	7,
Indiana	4,204	3	7	9,560	3	9	4,093	3	8	6,
Kutztown	4,219	2	7	9,575	3	9	4,089	3	8	6,
Lock Haven	4,062	2	5	9,418	3	8	4,062	2	5	6,
Mansfield	4,354	8	7	9,710	5	10	3,944	3	6	6,
Millersville	4,400	3	5	9,756	3	8	4,400	3	5	7,
Shippensburg	4,344	3	6	9,700	3	9	4,144	3	5	6,
Slippery Rock	4,302	3	6	9,658	3	9	4,475	7	7	7,
West Chester	4,162	3	6	9,518	3	9	4,044	3	7	6,
Average	4,265	3	6	9,621	3	9	4,173	4	7	6,

Excludes first-professional level.
 Main campus data only.

SOURCE: Pennsylvania Department of Education Colleges and Universities Basic Student Charges, 1992-93 to 1995-96; Pennsylvania Colleges and Universities-Education Digest 1996-97 and 1997-98.

a. Rounds to less than 1 percent.

Table 11

TUITION AND FEE REVENUES RELATED TO FULL-TIME EQUIVALENT STUDENTS ¹
1997-98, CHANGE FROM 1996-97 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1992-93 to 1997-98)

	Total tuit	ion and fee r		Tuition and	l fee revenu		
		<u>Percent</u>	<u>age change</u>				<u>ge change</u>
	Amount	One	Five-year		Oneyear	One	Five-year
University	(000s)	year	average	Amount	change	year	average
State-related							
Lincoln	\$12,447	17%	22%	\$6,030	\$320	6%	11%
Penn State	467.588	-1	9	6.930	-260	-4	7
Pittsburgh	240,564	7	4	8,440	350	4	5
Temple	181,984	5	3	7,920	530	7	6
Total	902,583	2	6	7,460	40	1	6
State-owned							
Bloomsburg	32,704	4	8	4,460	130	3	8
California	23,534	5	3	4,340	40	1	6
Cheyney	6,265	5	3	4,770	160	3	5
Clarion	23,715	3	5	4,160	70	2	5
East Stroudsburg	27,189	7	6	4,930	150	3	5
Edinboro	29,390	2	2	4,500	180	4	5
Indiana	61,789	4	6	4,770	160	3	7
Kutztown	31,151	5	6	4,520	140	3	6
Lock Haven	14,841	4	2	4,360	10	а	4
Mansfield	12,807	3	1	4,650	210	5	4
Millersville	32,578	4	4	4,690	120	3	4
Shippensburg	27,206	3	5	4,470	90	2	5
Slippery Rock	28,922	2	2	4,340	110	3	5
West Chester	47,995	5	6	4,770	90	2	6
Total	400,086	4	5	4,570	120	3	6
All universities	1,302,669	3	6	6,250	80	1	6

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

SOURCE: Tuition and fee revenues data provided by the individual Stateelated universities and the State System of Higher Education, Commonwealth of Pennsylvania, 1993 to 1998; FTE students data provided by the individual universities, 1993 to 1998.

a. Rounds to less than 1 percent.

Table 12

COMMONWEALTH INSTRUCTIONAL APPROPRIATIONS RELATED TO FULL -TIME EQUIVALENT STUDENTS ¹
1997-98, CHANGE FROM 1996-97 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1992-93 to 1997-98)

	_ Total Ilistiu	ctional appr Percent	age change	Instructional		Percentage	
	Amount	One	Five-year		Onevear		ive-year
University	(000s)	year	average	Amount	change	year	average
State-related							
Lincoln	\$9,958	2%	1%	\$4,820	-\$410	-8%	-4%
Penn State	218,984	2	3	3,250	-10	а	2
Pittsburgh	134,880	2	3	4,730	-40	-1	3
Temple	141,767	2	2	6,170	240	4	5
Total	505,589	2	3	4,180	10	а	2
State-owned							
Bloomsburg	30,519	2	2	4,160	30	1	2
California	27,909	1	4	5,150	-120	-2	7
Cheyney	13,248	2	2	10,090	0	0	3
Clarion	28,689	1	3	5,040	-10	а	4
East Stroudsburg	21,135	4	1	3,830	10	а	а
Edinboro	29,652	3	3	4,540	210	5	7
Indiana	57,230	1	3	4,420	30	1	5
Kutztown	29,315	2	2	4,250	30	1	3
Lock Haven	17,501	4	4	5,140	10	а	5
Mansfield	16,595	3	3	6,020	280	5	6
Millersville	31,315	1	3	4,510	-10	а	3
Shippensburg	27,343	3	3	4,490	100	2	3
Slippery Rock	31,498	3	3	4,720	150	3	5
West Chester	39,083	1	1	3,890	-80	-2	1
Total ²	401,032	2	3	4,580	40	1	4
All universities ²	906,621	2	3	4,350	20	а	3

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

SOURCE: Instructional appropriations *Governor's Executive Budget* 1994-95 to 1998-99; data provided by the individual State-related universities and the State System of Higher Education, Commonwealth of Pennsylvania, 1993 to 1998. FTE students- data provided by the individual univerties, 1993 to 1998.

^{2.} Excludes amount of instructional appropriation allocated to Office of the Chancell McKeever Center, Faculty Professional Development, University Center and System Reserve of the State System of Higher Education.

a. Rounds to less than 1 percent.

Table 13

TUITION AND FEE REVENUES, COMMONWEALTH INSTRUCTIONAL APPROPRIATIONS AND STUDENT AID

RELATED TO FULL-TIME EQUIVALENT STUDENTS ¹

1997-98, CHANGE FROM 1996-97 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1992-93 to 1997-98)

				Ratio of instr			
	Tuition	Per FTE studen	t Total	to total instr		venues ge change	Student aid
	and fee	Instructional	instructional		One	Five-year	per
University	revenues	appropriations	revenues	Percentage	year	average	FTE stu ² dent
State-related							
Lincoln	\$6,030	\$4,820	\$10,850	44%	-8%	-6%	\$550
Penn State	6,930	3,250	10,180	32	3	-2	506
Pittsburgh	8,440	4,730	13,170	36	-3	-1	526
Temple	7,920	6,170	14,090	44	-2	а	533
Total	7,460	4,180	11,640	36	0	-1	517
State-owned							
Bloomsburg	4,460	4,160	8,620	48	-2	-2	542
California	4,340	5,150	9,490	54	-2	0	640
Cheyney	4,770	10,090	14,860	68	-1	а	856
Clarion	4,160	5,040	9,200	55	0	а	724
East Stroudsburg	4,930	3,830	8,760	44	0	-2	476
Edinboro	4,500	4,540	9,040	50	0	1	720
Indiana	4,770	4,420	9,190	48	-2	-1	718
Kutztown	4,520	4,250	8,770	48	-2	-2	471
Lock Haven	4,360	5,140	9,500	54	0	а	743
Mansfield	4,650	6,020	10,670	56	0	а	754
Millersville	4,690	4,510	9,200	49	-2	а	479
Shippensburg	4,470	4,490	8,960	50	0	-1	489
Slippery Rock	4,340	4,720	9,060	52	0	а	624
West Chester	4,770	3,890	8,660	45	-2	-2	416
Total ³	4,570	4,580	9,150	50	-2	-1	592
All universities ³	6,250	4,350	10,600	41	0	-1	548

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

SOURCE: Tuition and fee revenues data provided by the individual Stateelated universities and the State System of Higher Education, Commonwealth of Pennsylvania, 1993 to 1998; instructional appropriation covernor's Executive Budget 1994-95 to 1998-99; data provided by the individual State-related universities and the State System of Higher Education, Commonwealth of Pennsylvania, 1993 to 1998; FTE students data provided by the individual universities, 1993 to 1998; student aid - data provided by the Pennsylvania Higher Education Assistance Agency, August 1998.

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

^{3.} Instructional appropriations exclude amount allocated to Office of the Chancell McKeever Center, Faculty Professional Development, University Center and System Reserve of the State System of Higher Education.

a. Rounds to less than 1 percent.

III. HISTORICAL DATA

Historical Table 1

FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC LEVEL
1992-93 to 1997-98

University	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98
State-related						
Lincoln						
Total	1,531	1,496	1,416	1,546	1,865	2,064
Undergraduate	1,321	1,272	1,217	1,317	1,573	1,641
Graduate	210	224	199	229	292	423
Penn State	CO 4C4	C4 470	64.000	64.407	CE 044	67.456
Total	63,161	61,170	61,082	64,137	65,811	67,456
Undergraduate Graduate	56,739 6,422	54,879 6,291	54,725 6,357	57,601 6,536	59,317 6,494	61,110 6,346
Pittsburgh	0,422	0,291	0,337	0,550	0,434	0,540
Total	29.405	28,865	28.290	27,565	27,738	28,489
Undergraduate	21,638	20,998	20,478	20,040	19.929	20,457
Graduate	7,767	7,867	7,812	7,525	7,809	8,032
Temple	.,	.,	.,	.,	.,	-,
Total	25,773	25,349	25,078	24,399	23,455	22,989
Undergraduate	18,910	18,340	18,087	17,711	16,939	16,643
Graduate	6,863	7,009	6,991	6,688	6,516	6,346
State-owned						
Bloomsburg						
Total	7,379	7,159	7,040	7,026	7,225	7,338
Undergraduate	6,984	6,782	6,628	6,582	6,793	6,902
Graduate	395	377	412	444	432	436
California	2 2 4 4	5 00 t	5 700		5 000	5 400
Total	6,044	5,804	5,733	5,547	5,226	5,422
Undergraduate Graduate	5,307 737	5,047 757	4,982 751	4,690 857	4,473 753	4,654 768
Cheyney	131	131	731	037	133	700
Total	1,423	1,412	1,278	1,303	1,293	1,313
Undergraduate	1,423	1,412	1,084	1,099	1,079	1,025
Graduate	176	206	194	204	214	288
Clarion	170	200	104	204	217	200
Total	5,863	5,633	5,409	5,534	5,605	5,695
Undergraduate	5,546	5,312	5,133	5,234	5,300	5,416
Graduate	317	321	276	300	305	279
East Stroudsburg						
Total	5,251	5,277	5,317	5,263	5,325	5,514
Undergraduate	4,645	4,629	4,655	4,597	4,704	4,857
Graduate	606	648	662	666	621	657
Edinboro						
Total	7,637	7,271	6,971	6,840	6,678	6,525
Undergraduate	7,231	6,883	6,556	6,393	6,258	6,132
Graduate	406	388	415	447	420	393
Indiana						
Total	13,696	13,249	12,841	12,764	12,859	12,954
Undergraduate	12,541	12,241	11,795	11,729	11,739	11,805
Graduate	1,155	1,008	1,046	1,035	1,120	1,149
Kutztown Total	6.026	6,865	6,909	6,758	6,791	6,892
Undergraduate	6,926 6,524	6,476	6,485	6,326	6,383	6,461
Graduate	402	389	424	432	408	431
Lock Haven	402	309	424	432	400	431
Total	3,669	3,520	3,431	3,243	3,283	3,403
Undergraduate	3,661	3,511	3,413	3,236	3,223	3,300
Graduate	8	9	18	7	60	103
Mansfield						
Total	3,142	3,089	2,893	2,810	2,801	2,757
Undergraduate	2,953	2,914	2,744	2,658	2,653	2,620
Graduate	189	175	149	152	148	137
Millersville						
Total	6,919	6,510	6,711	6,920	6,842	6,944
Undergraduate	6,093	5,710	5,957	6,100	6,046	6,130
Graduate	826	800	754	820	796	814
Shippensburg						
Total	6,096	5,974	5,950	5,989	6,057	6,089
Undergraduate	5,597	5,467	5,449	5,459	5,519	5,561
Graduate	499	507	501	530	538	528
Slippery Rock	7.050	7.407	7.005	0.000	0.747	c
Total	7,358	7,167	7,005	6,908	6,717	6,667
Undergraduate	6,738	6,553	6,382	6,317	6,130	6,066
Graduate	620	614	623	591	587	601
West Chester	40.040	0.745	0.500	0.670	0.704	40.055
Total	10,048	9,715	9,502	9,578	9,724	10,055
Undergraduate	9,003	8,702	8,565	8,653	8,765	9,021
Graduate	1,045	1,013	937	925	959	1,034

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

Historical Table 2

STUDENT CREDIT HOURS BY ACADEMIC DIVISION AND LEVEL¹

TOTAL YEAR AND SUMMER 1992-93 to 1997-98
(in thousands)

	Total year First are Tatal									
University	Lower division	Upper division	Total under- graduate	Master's	First pro- fessional	Doctor's	Total graduate	Grand total	T:	
State-related Lincoln										
1992-93	30	10	40	5	na	na	5 5	45		
1993-94	28	10	38	5	na	na	5	43		
1994-95 1995-96	26 30	10 10	36 40	5 6	na na	na na	5 6	41 46		
1996-97	37	10	47	7	na	na	7	54		
1997-98 Penn State	38	11	49	10	na	na	10	59		
1992-93	1,092	611	1,703	85	na	69	154	1,857		
1993-94	1,029	618	1,647	81	na	70	151	1,798		
1994-95 1995-96	1,040 1,131	601 597	1,641 1,728	85 90	na na	68 67	153 157	1,794 1,885		
1996-97	1,171	608	1,779	89	na	67	156	1,935		
1997-98 Pittsburgh	1,160	673	1,833	85	na	67	152	1,985		
1992-93	431	218	649	129	36	22	187	836		
1993-94	415	215	630	129	38	22 22	189	819		
1994-95 1995-96	405 398	209 203	614 601	128 120	38 39	22 22	188 181	802 782		
1996-97	403	195	598	123	43	22	188	786		
1997-98	421	192	613	126	45	22	193	806		
Temple 1992-93	262	305	567	87	54	24	165	732		
1993-94	262	288	550	91	54	23 22	168	718		
1994-95 1995-96	261 251	282 280	543 531	90 86	56 54	22 20	168 160	711 691		
1996-97	233	275	508	86 85	54 53	18	156	664		
1997-98	223	276	499	83	52	17	152	651		
State-owned Bloomsburg										
1992-93	143	66	209	9	na	na	9	218		
1993-94 1994-95	139 136	64 63	203 199	9 10	na na	na na	9 10	212 209		
1995-96	137	61	198	11	na	na	11	209		
1996-97 1997-98	146 147	58 60	204 207	10 10	na	na	10 10	214 217		
California	147	60	207	10	na	na	10	217		
1992-93	109	50	159	18	na	na	18	177		
1993-94 1994-95	104 103	47 46	151 149	18 18	na na	na na	18 18	169 167		
1995-96	100	41	141	21	na	na	21	162		
1996-97 1997-98	89 95	45 45	134 140	18 18	na	na	18 18	152 158		
Cheyney	95	45	140	10	na	na	10	150		
1992-93	28	9	37	4	na	na	4	41		
1993-94 1994-95	27 23	10 9	37 32	5 5	na na	na na	5 5	42 37		
1995-96	24	9	33	5	na	na	5	38		
1996-97 1997-98	23 22	9 9	32 31	5 7	na na	na na	5 7	37 38		
Clarion	22		31		na	Πά		30		
1992-93	116 111	50	166	8 8	na	na	8	174 167		
1993-94 1994-95	108	48 46	159 154	7	na na	na na	8 7	161		
1995-96	111	46	157	7	na	na	7	164		
1996-97 1997-98	115 117	44 45	159 162	7 7	na na	na na	7 7	166 169		
East Stroudsburg					iia	IIα				
1992-93 1993-94	100 97	40 42	140 139	15 16	na	na	15 16	155 155		
1993-94	98	42	140	16	na na	na na	16	156		
1995-96 1996-97	101	37	138	16	na	na	16	154		
	100	41	141	15	na	na	15	156		

Edinboro									
1992-93	150	67	217	10	na	na	10	227	
1993-94	142	65	207	9	na	na	9	216	
1994-95	135	62	197	10	na	na	10	207	
1995-96 1996-97	129 123	63 64	192 187	11 10	na na	na na	11 10	203 197	
1997-98	121	63	184	9	na	na	9	193	
Indiana	121	00	104	3	Πα	Πά	3	133	
1992-93	250	126	376	28	na	b	28	404	
1993-94	244	123	367	19	na	5	24	391	
1994-95	239	115	354	20	na	5	25	379	
1995-96	242	110	352	20	na	5	25	377	
1996-97	243	109	352	20	na	7	27	379	
1997-98	244	110	354	21	na	7	28	382	
Kutztown									
1992-93	125	71	196	10	na	na	10	206	
1993-94	125 128	69	194	9	na	na	9	203	
1994-95 1995-96	128	66 65	194 190	10 10	na na	na na	10 10	204 200	
1995-96	125	66	191	10	na	na	10	200	
1997-98	128	66	194	10	na	na	10	204	
Lock Haven	120	00	104	10	nu	iid.	10	204	
1992-93	80	30	110	а	na	na	а	110	
1993-94	74	32	106	а	na	na	a	106	
1994-95	71	31	102	а	na	na	а	102	
1995-96	67	30	97	a	na	na	a	97	
1996-97	67	30	97	1	na	na	1	98	
1997-98	68	31	99	2	na	na	2	101	
Mansfield 1992-93	61	28	89	5	na	na	5	94	
1993-94	55	32	87	4	na	na	4	91	
1994-95	51	31	82	4	na	na	4	86	
1995-96	48	31	79	4	na	na	4	83	
1996-97	48	32	80	3	na	na	3	83	
1997-98	48	31	79	3	na	na	3	82	
Millersville									
1992-93	121	62	183	20	na	na	20	203	
1993-94	114	57	171	19	na	na	19	190	
1994-95 1995-96	114 116	64 67	178 183	18 20	na	na	18 20	196 203	
1995-96	115	66	181	20 19	na na	na na	20 19	203	
1997-98	116	68	184	19	na	na	19	203	
Shippensburg		00			110		.0	200	
1992-93	119	49	168	12	na	na	12	180	
1993-94	118	46	164	12	na	na	12	176	
1994-95	117	46	163	12	na	na	12	175	
1995-96	118	46	164	13	na	na	13	177	
1996-97	121	45	166	13	na	na	13	179	
1997-98 Slippery Rock	119	48	167	13	na	na	13	180	
1992-93	141	61	202	15	na	b	15	217	
1993-94	138	59	197	15	na	b	15	212	
1994-95	135	56	191	15	na	b	15	206	
1995-96	133	56	189	14	na	b	14	203	
1996-97	128	56	184	9	na	5	14	198	
1997-98	127	55	182	9	na	6	15	197	
West Chester	475	0.5	070	0.5			0.5	205	
1992-93 1993-94	175 166	95 95	270 261	25 24	na	na	25 24	295 285	
1993-94	165	95 92	261 257	24 22	na na	na na	24 22	285 279	
1995-96	169	91	260	22	na	na	22	282	
1996-97	174	89	263	23	na	na	23	286	
1997-98	184	87	271	25	na	na	25	296	

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. Included in master's level.
 na. Not applicable.

Historical Table 3 DEGREES CONFERRED¹ 1992-93 to 1997-98

University	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98
State-related						
Lincoln						
Total	250	313	298	310	328	318
Bachelor's	188	220	224	240	219	185
Graduate	62	93	74	70	109	133
Penn State						
Total	11,452	11,510	11,292	11,049	11,484	11,686
Bachelor's	9,387	9,231	8,981	8,716	8,993	9,059
Graduate	2,065	2,279	2,311	2,333	2,491	2,627
Pittsburgh						
Total	6,761	6,872	6,993	6,543	6,668	6,514
Bachelor's	4,185	4,065	4,020	3,885	3,962	3,854
_Graduate	2,576	2,807	2,973	2,658	2,706	2,660
Temple						
Total	5,804	5,748	5,768	5,538	5,472	5,534
Bachelor's	3,660	3,382	3,299	3,162	3,070	3,212
Graduate	2,144	2,366	2,469	2,376	2,402	2,322
State-owned Bloomsburg						
Total	1,568	1,593	1,543	1,553	1,469	1,464
Bachelor's	1,347		1,354			1,464
Graduate	1,347	1,368 225	1,354	1,323 230	1,231 238	1,239
California	221	225	169	230	230	225
Total	1,241	1,194	1,133	1,235	1,255	1,238
Bachelor's	976	923	865	911	906	921
Graduate	265	271	268	324	349	317
Cheyney	203	211	200	324	343	317
Total	238	251	268	223	263	274
Bachelor's	151	173	189	132	147	178
Graduate	87	78	79	91	116	96
Clarion	.			٠.		00
Total	1.146	1.195	1.025	1.039	1.004	1.010
Bachelor's	972	1,014	858	890	863	850
Graduate	174	181	167	149	141	160
East Stroudsburg						
Total	1,057	1,023	1,075	1,068	1,034	1,047
Bachelor's	864	826	852	824	788	821
Graduate	193	197	223	244	246	226
Edinboro						
Total	1,399	1,453	1,401	1,312	1,298	1,251
Bachelor's	1,230	1,284	1,191	1,131	1,094	1,066
Graduate	169	169	210	181	204	185
Indiana						
Total	2,756	2,742	2,591	2,656	2,446	2,604
Bachelor's	2,293	2,254	2,116	2,110	1,956	2,060
Graduate	463	488	475	546	490	544
Kutztown	4 440	4 000	4.054	4.040	4 000	4 040
Total	1,440	1,382	1,351	1,310	1,362	1,313
Bachelor's	1,204	1,199	1,154	1,086	1,147	1,111
Graduate	236	183	197	224	215	202
Lock Haven	ECO	040	COF	E0.4	F0C	500
Total Bachelor's	568 564	646 645	625	584 582	586 583	582
Graduate	4	1	624 1	2	3	557 25
Mansfield	4	'	'	2	3	23
Total	632	656	611	528	581	540
Bachelor's	548	564	538	467	490	456
Graduate	84	92	73	61	91	84
Millersville	04	32	75	01	31	04
Total	1,438	1,468	1,367	1,380	1,398	1,439
Bachelor's	1,266	1,293	1,215	1,229	1,219	1,257
Graduate	172	175	152	151	179	182
Shippensburg	112	110	102	101	170	102
Total	1,543	1,546	1,435	1,422	1,471	1,362
Bachelor's	1,247	1,230	1,114	1,139	1,161	1,058
Graduate	296	316	321	283	310	304
Slippery Rock	=	0.0	· ·		0.0	304
Total	1,478	1,374	1,381	1,362	1,366	1,264
Bachelor's	1,311	1,242	1,195	1,151	1,153	1,107
Graduate	167	132	186	211	213	157
West Chester						
Total	2,088	1,964	2,001	1,877	1,841	1,903
Bachelor's	1,718	1,666	1,620	1,492	1,489	1,509

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

Historical Table 4 NUMBER AND AVERAGE WEEKLY STUDENT CONTACT HOURS OF FULL-TIME EMPLOYED FACULTY BY ACADEMI FALL 1992 to FALL 1997

	Fulltime employed facult ?							Undergraduate average weekly student contact hours av					
University	1992	1993	3 199	4 19	95 199	96 1997	199	92 199	93 19	94 19	95 19	96 1997	19
State-related													
Lincoln	77	81	83	81	86	94	9.7	9.5	9.9	9.7	10.3	10.4	1.1
Penn State	2,947	2,954	2,943	3,000	3,026	2,975	6.7	6.7	6.7	6.6	6.7	6.8	1.8
Pittsburgh	1,735	1,739	1,770	1,721	1,733	1,780	4.6	4.5	4.4	4.8	4.4	4.4	3.9
Temple	1,151	1,129	1,137	1,088	1,078	1,033	5.0	4.9	5.0	5.3	5.6	5.4	3.9
Total	5,910	5,903	5,933	5,890	5,923	5,882	5.8	5.7	5.7	5.9	5.9	5.9	2.8
State-owned													
Bloomsburg	359	360	355	366	368	372	11.1	11.2	11.4	11.1	11.3	11.2	.9
California	330	285	279	286	259	257	9.9	9.2	10.0	10.2	10.0	10.5	1.2
Cheyney	73	87	92	90	91	87	11.6	10.5	10.2	10.5	11.0	11.0	1.1
Clarion	341	333	340	346	340	339	10.7	10.9	11.2	10.5	10.9	10.5	.7
East Stroudsburg	260	257	258	263	251	246	11.1	10.9	10.9	10.9	10.9	11.2	.9 .7
Edinboro	383	375	373	363	380	345	12.3	12.5	12.8	12.8	12.8	13.2	
Indiana	702	692	712	715	720	726	9.9	10.2	9.8	9.8	10.2	10.1	1.2
Kutztown	345	352	358	357	373	364	11.5	11.5	11.4	11.4	11.0	11.3	.6
Lock Haven	205	200	200	202	185	197	12.5	11.8	11.5	11.8	10.9	11.1	.1
Mansfield	171	175	174	176	167	161	10.5	10.8	11.2	10.6	10.6	11.1	.3
Millersville ³	290	294	305	332	328	324	10.8	11.2	11.6	10.3	10.1	10.6	.8
Shippensburg	310	311	317	312	308	299	9.7	9.5	9.4	10.4	10.2	9.8	.9
Slippery Rock	366	383	378	378	369	371	11.0	11.0	10.8	10.4	9.9	9.4	.9 .7
West Chester	548	540	538	541	530	543	10.6	10.8	10.8	10.6	10.6	10.3	1.6
Total	4,683	4,644	4,679	4,727	4,669	4,631	10.8	10.8	10.9	10.8	10.7	10.7	.9
All universities	10,593	10,547	10,612	10,617	10,592	10,513	7.9	7.9	7.9	8.0	7.9	7.9	2.0

Averages calculated for the fultime employed faculty who reported complete orkweeks of 100 hours or less for the fall term.
 The number of fulltime employed faculty represents those reported by each university for the fall term; sabbatical and other on-leave facu.
 In Fall 1995 there were changes in definitions and procedures used to gather workweek data making prior yexascomparable.

Historical Table 5

NUMBER AND AVERAGE INSTRUCTIONAL SALARIES OF FULL-TIME EQUIVALENT INSTRUCTIONAL FACULTY BY RANK
1992-93 to 1997-98
(Dollars in thousands)

	FTE				structional salaries	
	instructional	All		Associate	Assistant	
University	faculty	faculty	Professor	professor	professor	Ir
State-related						
Lincoln						
1992-93	95	\$29.8	\$37.7	\$33.9	\$28.3	\$
1993-94	98	31.8	43.9	34.6	28.9	
1994-95	99	33.0	47.4	37.8	29.6	
1995-96	104	33.7	47.3	40.0	31.2	
1996-97 1997-98	121 135	33.2 32.4	51.8 54.1	42.2 39.8	31.0 29.8	
Penn State	133	32.4	34.1	33.0	23.0	
1992-93	3,456	40.0	66.3	48.0	39.1	
1993-94	3,445	42.7	69.0	49.8	41.2	
1994-95	3,395	43.9	71.5	51.6	41.7	
1995-96	3,482	45.1	75.4	52.6	42.6	
1996-97	3,557	45.5	76.4	53.8	43.8	
1997-98	3,654	48.1	83.6	56.7	46.3	
Pittsburgh	4.037	44.5	05.4	45.0	00.0	
1992-93	1,877 1,838	41.5 42.8	65.1 67.1	45.3	36.2 37.1	
1993-94 1994-95	1,865	43.9	70.3	47.9 48.1	38.4	
1995-96	1,907	43.8	70.5 70.6	48.4	37.6	
1996-97	1,855	44.9	71.7	49.6	38.4	
1997-98	1,833	47.8	75.0	52.0	41.0	
Temple	,,,,,,					
1992-93	1,532	38.2	58.5	45.7	36.9	
1993-94	1,504	39.7	61.9	48.3	38.3	
1994-95	1,537	42.4	66.4	51.9	40.2	
1995-96	1,445	45.4	70.4	54.7	38.7	
1996-97	1,426	46.0	71.3	54.9	39.3	
1997-98	1,365	47.1	72.0	56.1	41.0	
State-owned						
Bloomsburg 1992-93	389	43.3	56.0	45.1	35.7	
1993-94	393	47.5	61.2	49.1	39.3	
1994-95	389	50.2	63.8	51.9	40.6	
1995-96	392	52.4	66.1	53.4	42.0	
1996-97	397	51.7	65.1	53.7	43.1	
1997-98	405	52.7	67.7	54.7	42.5	
California						
1992-93	309	45.3	59.8	47.7	37.6	
1993-94	280	53.4	64.6	55.1	43.6	
1994-95	284	52.7	66.0	53.2	44.1	
1995-96 1996-97	285 272	54.7 54.0	68.6 66.8	56.4 53.8	44.0 43.3	
1997-98	279	53.4	66.8	54.8	44.8	
Cheyney	213	33.4	00.0	34.0	44.0	
1992-93	87	46.8	58.1	45.6	40.1	
1993-94	95	46.3	57.0	44.1	40.8	
1994-95	93	49.8	60.8	47.8	44.3	
1995-96	96	52.9	69.2	54.1	43.1	
1996-97	99	50.0	64.2	50.6	41.1	
1997-98	103	51.0	63.4	54.0	45.3	
Clarion	000	45.0	50.0		07.0	
1992-93 1993-94	333 329	45.6 49.8	58.8 63.7	47.4 52.2	37.8 40.6	
1993-94	330	49.8 51.1	66.2	53.5	40.6 42.5	
1995-96	327	53.4	68.4	56.1	43.1	
1996-97	327	53.0	69.2	55.5	42.6	
1997-98	326	53.9	69.4	58.0	42.6	
East Stroudsburg			****	****	:=:=	
1992-93	294	44.1	54.9	43.9	33.6	
1993-94	292	47.7	57.9	49.6	38.0	
1994-95	293	49.9	60.4	51.1	40.2	
1995-96	302	51.5	63.4	52.5	42.0	
1996-97 ^a	266	56.6	70.4	58.1	46.2	
1997-98	277	55.4	68.8	59.6	44.2	

Ediahaan					
Edinboro 1992-93	416	44.4	56.8	46.3	36.6
1993-94	416	44.4 47.4	60.9	49.1	39.3
1994-95	409	49.9	64.5	51.4	41.3
1995-96	401	51.3	65.3	51.7	43.4
1996-97	393	51.8	67.2	54.3	43.5
1997-98	387	53.1	68.9	55.6	45.2
Indiana					
1992-93	713	46.3	56.2	47.4	38.8
1993-94	721	50.4	62.1	50.4	41.0
1994-95	726	52.3	64.9	52.6	42.5
1995-96	701	55.3	67.9	55.2	44.5
1996-97	729	54.0	67.2	54.7	43.0
1997-98	742	54.4	71.2	56.4	44.0
Kutztown					
1992-93	363	47.9	59.6	48.5	38.5
1993-94	367	50.9	64.5	51.9	41.3
1994-95	373	52.6	67.1	54.7	42.2
1995-96	371	55.0	70.6	56.6	43.9
1996-97	368	54.6	71.1	55.9	43.2
1997-98	374	55.0	72.0	57.9	44.0
Lock Haven					
1992-93	194	44.6	60.8	49.4	37.5
1993-94	185	49.3	65.5	53.4	42.4
1994-95	183	51.4	67.8	55.6	43.5
1995-96	181	52.9	68.9	59.1	43.2
1996-97	185	51.5	68.4	57.5	44.2
1997-98	194	50.0	74.0	55.8	44.8
Mansfield					
1992-93	175	46.7	61.8	49.9	40.2
1993-94	181	49.1	64.4	52.0	41.5
1994-95	184	51.4	67.7	55.0	44.1
1995-96	177	54.6	70.6	57.5	45.2
1996-97	175	54.8	70.7	55.3	45.2
1997-98	171	51.7	68.5	51.1	41.7
Millersville	***			• • • • • • • • • • • • • • • • • • • •	
1992-93	355	47.2	60.7	49.6	38.6
1993-94	361	50.8	64.6	52.7	41.9
1994-95	394	50.9	63.8	53.4	41.5
1995-96	407	51.7	65.9	53.7	41.6
1996-97	397	52.2	66.5	54.2	41.3
1997-98	406	52.7	67.4	55.5	42.4
Shippensburg	400	02.7	07.4	00.0	72.7
1992-93	311	49.9	58.8	48.0	38.2
1993-94	304	54.1	64.3	52.7	41.5
1994-95	307	55.9	67.8	55.4	42.4
1995-96	309	57.6	70.1	58.3	44.2
1996-97	308	56.8	69.7	57.1	44.6
1997-98	308	56.2	71.6	58.5	43.8
Slippery Rock	300	30.2	71.0	30.3	43.0
1992-93	384	47.3	58.4	45.9	39.4
1992-93	381	47.3 49.7	61.7	49.0	40.5
1994-95	380	52.8		51.9	42.7
1995-96	371	52.8 54.5	64.9 67.1	51.9 54.7	42.7 44.2
1996-97	360	54.5 56.5	70.3	54.7 57.7	44.2 45.5
1997-98	358			57.7 60.6	45.5 47.1
	358	57.1	68.8	0.00	47.1
West Chester	F70	45.0	CO 0	40.0	20.0
1992-93	576	45.0	60.8	49.8	38.9
1993-94	571 560	49.4	66.0	54.4	43.5
1994-95	560	49.0	64.4	54.7	43.1
1995-96	577	50.0	67.1	55.1	44.3
1996-97	575	49.4	67.0	55.0	43.8
1997-98	591	49.9	68.0	55.8	45.4

^{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 equivalent faculty represents one fullime workloadfor two terms (one academic year). The summer term is treated as one term or ohalf of the academic year. Data for each 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 altonranked personnel, including lecturers, administrators, librarians, researand volunteers.

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

na. Not applicable.

Historical Table 6 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT BY ACADEMIC DIVISION AND L 1992-93 to 1997-98

			Lowe	er divisio	n					r division						dergradi		
University	1992 93	1993- 94	1994- 95	1995- 96	1996- 97	1997- 98	1992 93	1993- 9		1995- 5 96			1992	93 93	3- 1994 94	4- 1995 95		- 1997 97
State-related																		
Lincoln	\$1,533	\$1,843	\$2,028	\$1,910	\$1,773	\$1,773	\$2,719	\$3,005	\$3,268	\$3,573	\$3,865	\$3,738	\$1,821	\$2,146	\$2,367	\$2,323	\$2,214	\$2,20
Penn State	1,328	1,439	1,488	1,454	1,456	1,519	2,283	2,518	2,600	2,691	2,731	2,816	1,670	1,844	1,895	1,881	1,892	1,99
Pittsburgh	1,491	1,536	1,567	1,709	1,686	1,724	2,580	2,856	3,025	2,964	3,124	3,359	1,858	1,985	2,063	2,132	2,154	2,23
Temple	1,454	1,510	1,656	1,733	1,906	1,939	2,108	2,258	2,470	2,533	2,605	2,603	1,805	1,902	2,079	2,155	2,284	2,30
Total	1,388	1,479	1,540	1,556	1,569	1,622	2,296	2,520	2,653	2,709	2,780	2,864	1,739	1,890	1,973	1,990	2,019	2,10
State-owned																		
Bloomsburg	1,851	2,119	2,243	2,298	2,215	2,221	2,971	3,385	3,747	4,069	4,120	4,226	2,206	2,518	2,717	2,843	2,754	2,79
California	1,790	2.000	2.041	2.243	2.235	2,207	3.095	3.365	3,488	3.872	3.571	3.626	2.198	2.426	2,491	2.713	2.685	
Cheyney	2,521	2,725	3,206	3,349	3,382	3,674	4,126	4,639	5,172	5,977	5,285	6,165	2,916	3,230	3,776	4,057	3,941	4,38
Clarion	2,034	2,309	2,308	2,351	2,276	2,259	3,603	4,072	4,610	4,760	4,761	4,769	2,510	2,843	2,997	3,062	2,966	
East Stroudsburg	2,039	2,162	2,251	2,438	2,254	2,300	3,605	3,825	3,963	4,305	4,241	3,972	2,484	2,661	2,760	2,937	2,835	
Edinboro	1,879	2,058	2,288	2,354	2,361	2,453	3,289	3,833	4,001	4,113	3,990	4,176	2,317	2,613	2,826	2,934	2,920	3,04
Indiana ²	1.649	1.919	1.959	2.036	2.015	2,062	3.207	3.623	4.134	4.373	4.419	4.535	2.173	2.489	2,667	2.763	2.763	2,83
Kutztown	1.849	1.954	1.972	2.136	2.017	2,056	3,458	3.924	4.250	4.473	4.508	4.566	2.435	2,655	2.747	2,937	2,876	
Lock Haven	1.955	2.019	2,131	2,335	2,320	2,049	3,404	3.846	4.054	4.238	3,915	4,638	2,344	2,568	2.719	2,924	2,814	
Mansfield	1.822	1.811	2.164	2.243	2.235	2,170	4.098	4,547	4,940	5.153	5.004	4.717	2,537	2,821	3,222	3,385	3,338	
Millersville	2.036	2.429	2.554	2.591	2.695	2.776	3.123	3.341	3.548	3.732	3.633	3.661	2.406	2.732	2,912	3.010	3,036	
Shippensburg	2.004	2.243	2,277	2.358	2.353	2,263	3.611	3,894	4,076	4,305	3.937	3,984	2,471	2.705	2.788	2.899	2,784	
Slippery Rock ³	2.009	2.144	2.385	2.380	2.478	2,482	3.499	3.764	3,987	4.120	4.199	4,359	2.456	2.626	2.854	2.897	2,998	,
West Chester	2,117	2,319	2,315	2,426	2,349	2,291	3,081	3,433	3,551	3,741	3,660	3,872	2,456	2,723	2,756	2,885	2,793	
Total	1,922	2,127	2,225	2,321	2,290	2,289	3,328	3,712	3,992	4,218	4,139	4,241	2,370	2,638	2,794	2,922	2,879	2,90
All universities	1,648	1,796	1,872	1,917	1,906	1,936	2,722	3,009	3,204	3,325	3,337	3,411	2,030	2,234	2,349	2,409	2,403	2,45

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 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 instructi three student credit hours generated.
 The master's level included the doctor's level in 1992-93.
 The master's level included the doctor's level prior to 1997-98.

Historical Table 7 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER STUDENT C REDIT HOUR BY ACADEMIC DIVISION AND LEVEL 1992-93 to 1997-98

			Lower	division						division					otal und	ergradua	ate	
University	1992 93	1993- 94	1994- 95	1995- 96	1996- 97	1997- 98	1992 93	1993- 94	1994- 95	1995- 5 96	1996 5 9	1997- 7 98	1992- 93	1993-	1994- 94		1996 96	- 199 97
State-related																		
Lincoln	\$51	\$61	\$68	\$64	\$59	\$59	\$91	\$100	\$109	\$119	\$129	\$125	\$61	\$72	\$79	\$77	\$74	\$
Penn State	44	48	50	48	49	51	76	84	87	90	91	94	56	61	63	63	63	
Pittsburgh	50	51	52	57	56	57	86	95	101	99	104	112	62	66	69	71	72	
Temple	48	50	55	58	64	65	70	75	82	84	87	87	60	64	69	72	76	7
Total	46	49	51	52	52	54	77	84	88	90	93	95	58	63	66	66	67	7
State-owned																		
Bloomsburg	62	71	75	77	74	74	99	113	125	136	137	141	74	84	91	95	92	!
California	60	67	68	75	74	74	103	112	116	129	119	121	73	81	83	90	90	
Cheyney	84	91	107	112	113	122	137	155	172	199	176	206	97	108	126	135	131	1.
Clarion	68	77	77	78	76	75	120	136	154	159	159	159	84	95	100	102	99	
East Stroudsburg	68	72	75	81	75	77	120	127	132	144	141	132	83	89	92	98	94	
Edinboro	63	69	76	78	79	82	110	128	133	137	133	139	77	87	94	98	97	10
Indiana ²	55	64	65	68	67	69	107	121	138	146	147	151	72	83	89	92	92	
Kutztown	62	65	66	71	67	69	115	131	142	149	150	152	81	89	92	98	96	
Lock Haven	65	67	71	78	77	68	113	128	135	141	130	155	78	86	91	97	94	
Mansfield	61	60	72	75	74	72	137	152	165	172	167	157	85	94	107	113	111	1
Millersville	68	81	85	86	90	93	104	111	118	124	121	122	80	91	97	100	101	i
Shippensburg	67	75	76	79	78	75	120	130	136	143	131	133	82	90	93	97	93	
Slippery Rock ³	67	71	80	79	83	83	117	125	133	137	140	145	82	88	95	97	100	1
West Chester	71	77	77	81	78	76	103	114	118	125	122	129	82	91	92	96	93	
Total	64	71	74	77	76	76	111	124	133	141	138	141	79	88	93	97	96	9
All universities	55	60	62	64	64	65	91	100	107	111	111	114	68	74	78	80	80	

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 ac (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 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 Historical Table 6).
 The master's level included the doctor's level prior to 1997-98.

Historical Table 8 AVERAGE CLASS SIZES IN CLASSROOM INSTRUCTION BY ACADEMIC DIVISION AND LEVEL 1 1992-93 to 1997-98 $^{\circ}$

			Lower	division	1				Uppe	r divisio	n				Total u	ndergra	duate	
University	1992 93	1993- 94	1994- 95	1995- 96	1996- 97	1997- 98	1992- 93	1993- 94	1994- I (- 1997- 97 98	1992	- 1993- 93	1994- 94	1995 95	- 1996- 96	1997 97
State-related																		
Lincoln	24	21	20	21	23	22	15	14	13	13	12	12	21	19	18	18	19	19
Penn State	31	30	30	31	30	31	27	27	26	26	26	27	30	29	29	29	29	29
Pittsburgh	31 27	29 27	29	29	29	30	27 24	26 23	24 22	24 23	23 22	22 22	29	28	27	27	27 24	27
Temple	21	21	26	28	26	26	24	23	22	23	22	22	25	25	24	25	24	24
Total	30	29	29	30	29	29	26	25	24	24	24	24	28	28	27	27	27	27
State-owned																		
Bloomsburg	25	23	23	23	23	24	18	17	16	15	15	15	22	21	20	20	20	20
California	29	31	31	29	30	29	18	19	18	17	17	17	24	26	25	24	24	24
Cheyney	23	22	19	19	18	17	14 17	12 17	12	11	11	11	20	18	16	16	15	15
Clarion East Stroudsburg	33 27	32 27	32 28	33 28	33 29	33 29	17	18	15 18	15 19	15 18	14 19	26 23	25 24	24 24	24 25	25 24	24 25
Edinboro	28	26	26	26	25	25	18	17	17	17	17	17	24	23	22	23	22	22
Indiana	30	29	29	29	28	28	17	16	15	14	14	13	24	23	22	22	21	21
Kutztown	28	28	29	28	30	29	17	16	15	15	15	16	23	22	22	22	23	22
Lock Haven	28	29	28	28	30	30	17	13	17	20	22	18	24	21	24	25	27	25
Mansfield	27	28	26	26	26	26	10	9	8	9	8	9	17	16	14	15	14	15
Millersville	26	25	25	26	25	25	17	19	19	19	20	20	22	22	23	23	23	23
Shippensburg	28	28	28	28	28	29	16	16	17	16	20	21	23	23	23	23	25	26
Slippery Rock ²	31	31	30	31	31	31	16	16	16	16	16	16	25	24	24	24	24	24
West Chester	24	23	23	24	24	24	15	15	14	14	14	14	20	19	19	19	20	20
Total	28	27	27	27	27	27	16	16	15	15	15	15	23	22	22	22	22	22
All universities	29	28	28	28	28	28	21	20	20	19	19	19	25	25	24	24	24	24

Average class size for each level is calculated by dividing total classroom student credit hours by total classroom course (assigned) credits.
 The master's level included the doctor's level prior to 1996-97.
 No classroom instruction.

Historical Table 9

COMMONWEALTH INSTRUCTIONAL APPROPRIATIONS¹
1992-93 to 1997-98
(in millions)

University	1992- 93	1993- 94	1994- 95	1995- 96	1996- 97	1997- 98
State-related						
Lincoln	\$9.3	\$9.4	\$9.6	\$9.7	\$9.8	\$10.0
Penn State	189.3	198.5	207.6	214.7	214.7	219.0
Pittsburgh	119.3	123.4	127.6	130.9	132.2	134.9
Temple	128.1	131.6	134.5	137.3	139.0	141.8
Total	446.0	462.9	479.3	492.6	495.7	505.7
State-owned						
Bloomsburg	27.3	28.5	29.6	29.9	29.8	30.5
California	23.4	24.5	25.4	27.6	27.5	27.9
Cheyney	12.3	12.5	12.7	12.9	13.0	13.2
Clarion	24.7	25.8	26.8	28.5	28.3	28.7
East Stroudsburg	19.9	20.6	21.4	20.3	20.3	21.1
Edinboro	25.4	26.6	27.6	28.8	28.9	29.7
Indiana	49.3	51.7	53.7	56.8	56.5	57.2
Kutztown	26.1	27.2	28.3	28.9	28.7	29.3
Lock Haven	14.9	15.5	16.1	16.8	16.8	17.5
Mansfield	14.6	15.0	15.6	15.9	16.1	16.6
Millersville	27.6	28.7	29.8	31.1	30.9	31.3
Shippensburg	23.9	25.0	25.9	26.7	26.6	27.3
Slippery Rock	27.3	28.4	29.6	30.8	30.7	31.5
West Chester	37.9	39.3	40.9	38.8	38.6	39.1
Total ²	354.6	369.3	383.4	393.8	392.7	400.9
All universities ²	800.6	832.2	862.7	886.4	888.4	906.6

Instructional appropriations include educational and general appropriations and for 1993-94 to 1995-96, Tuition Challenge Grants. Excludes medical school data.
 Excludes amount of instructional appropriation allocated to Office of the

SOURCE: *Governor's Executive Budget*, 1994-95 to 1998-99; data provided by the individual State-related universities and the State System of Higher Education, Commonwealth of Pennsylvania, 1993 to 1998.

^{2.} Excludes amount of instructional appropriation allocated to Office of the Chancellor, McKeever Center, Faculty Professional Development, University Center and System Reserve of the State System of Higher Education.

Historical Table 10

ACADEMIC YEAR TUITION AND REQUIRED FEES FOR FULL-TIME STUDENTS BY ACADEMIC LEVEL AND RESIDENCE 1992-93 to 1997-98

	Unde	rgraduate		Graduate ¹
University	In-State	Out-of-State	In-State	Oı
State-related				
Lincoln				
1992-93	\$ 2,960	\$4,380	\$4,375	
1993-94	3,140	4,900	4,800	
1994-95	3,495	5,618	4,893	
1995-96	3,956	6,144	5,289	
1996-97	4,180	6,490	5,580	
1997-98	4,392	6,910	5,576	
Penn State				
Main Campus	4.040	2 244	5.450	
1992-93	4,618	9,644	5,158	
1993-94	4,822	10,800	5,386	
1994-95	5,036	10,724	5,624	
1995-96	5,258 5,234	11,310	5,872	
1996-97	5,624	11,964	6,268	
1997-98	5,832	12,406	6,502	
Pittsburgh				
Main Campus	4.000	10.000	C E4C	
1992-93 1993-94	4,922	10,066	6,516	
	5,186 5,446	10,708	6,854	
1994-95	5,416 5,638	11,240	7,150	
1995-96	5,638 5,830	11,724 12,230	7,454 7,770	
1996-97 1997-98	5,870 6,164	12,230	8,154	
	0,104	12,928	6,154	
Temple 1992-93	5,008	9,222	E 929	
1993-94			5,828	
1994-95	5,226 5,464	9,802 10,246	6,068 6,342	
1994-95	5,514	10,296	6,656	
1996-97	5,828	10,712	7,088	
1997-98	6,150	11,032	7,672	
State-owned	6,150	11,032	7,072	
Bloomsburg				
1992-93	3,068	6,462	2,958	
1993-94	3,458	7,856	3,338	
1994-95	3,436	8.452	3,574	
1995-96	3,915	8,889	3,783	
1996-97	4,162	9,360	4,020	
1997-98	4,278	9,634	4,133	
California	4,270	3,034	4,100	
1992-93	3,384	6,778	3,258	
1993-94	3,760	8,158	3,608	
1994-95	3,902	8,660	3,804	
1995-96	4,136	9,110	4,038	
1996-97	4,304	9,502	4,206	
1997-98	4,475	9,831	4,377	
Cheyney	4,470	0,001	4,011	
1992-93	2.938	6,332	2,833	
1993-94	3,319	7,717	3,184	
1994-95	3,591	8,349	3,411	
1995-96	3,729	8,703	3,604	
1996-97	3,922	9,120	3,748	
1997-98	4,023	9,379	3,850	
Clarion	1,020	0,0.0	0,000	
1992-93	3,328	6,830	3,253	
1993-94	3,710	8,108	3,636	
1994-95	3,879	8,637	3,799	
1995-96	4,054	9,028	3,970	
1996-97	4,268	9,466	4,144	
1997-98	4,378	9,734	4,278	
East Stroudsburg	,	-,	-,=	
1992-93	3,352	6,746	3,196	
1993-94	3,664	8,062	3,520	
1994-95	3,844	8,602	3,690	
	4,016	8,990	3,862	
1995-96				
1995-96 1996-97	4,195	9,393	4,041	

Edinboro	0.404	0.555	0.404
1992-93 1993-94	3,161 3,531	6,555 7,929	3,131 3,531
1994-95	3,685	8,443	3,685
1995-96	3,924	8,898	3,924
1996-97	4,083	9,281	4,081
1997-98	4,193	9,549	4,366
Indiana			
1992-93	3,157	6,551	2,969
1993-94 1994-95	3,539 3,725	7,937 8,483	3,455 3,620
1995-96	3,891	8,865	3,787
1996-97	4,064	9,262	3,956
1997-98	4,204	9,560	4,093
Kutztown			
1992-93	3,160	6,639	2,880
1993-94	3,558	8,285	3,428
1994-95 1995-96	3,699 3,940	8,535 8,914	3,569 3,810
1996-97	4,138	9,336	3,968
1997-98	4,219	9,575	4,089
Lock Haven	-,	2,0.0	.,
1992-93	3,261	6,655	3,261
1993-94	3,509	7,907	3,509
1994-95	3,662	8,896	3,662
1995-96	3,822 3,988	8,796	3,822
1996-97 1997-98	4,062	9,186 9,418	3,988 4,062
Mansfield	4,002	3,410	4,002
1992-93	3,168	6,562	3,028
1993-94	3,440	7,838	3,300
1994-95	3,624	8,382	3,464
1995-96	3,804	8,778	3,624
1996-97 1997-98	4,034 4,354	9,232 9,710	3,834 3,944
Millersville	4,334	9,710	3,944
1992-93	3,488	6,882	3,488
1993-94	3,750	8,148	3,750
1994-95	3,920	8,678	3,920
1995-96	4,100	9,074	4,100
1996-97	4,268	9,466	4,268
1997-98 Shippensburg	4,400	9,756	4,400
1992-93	3,388	6,782	3,258
1993-94	3,710	8,108	3,550
1994-95	3,856	8,614	3,696
1995-96	4,010	8,984	3,850
1996-97	4,230	9,428	4,030
1997-98	4,344	9,700	4,144
Slippery Rock 1992-93	3,287	6,681	3,287
1993-94	3,547	7,945	3,547
1994-95	3,836	8,594	3,836
1995-96	4,013	8,987	4,013
1996-97	4,179	9,377	4,179
1997-98	4,302	9,658	4,475
West Chester	2.450	C 500	2.040
1992-93 1993-94	3,158 3,504	6,522 7,902	3,040 3,366
1993-94	3,504	7,902 8.404	3,300
1995-96	3,874	8,848	3,756
1996-97	4,032	9,230	3,914
1997-98	4,162	9,518	4,044

^{1.} Excludes first-professional level.

SOURCE: Pennsylvania Department of Education, Colleges and Universities-Basic Student Charges, 1992-93 to 1995-96; Pennsylvania Department of Educ Colleges and Universities-Education Digest, 1996-97 and 1997-98.

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:

FTE	Numbe	r of FTE	Average FTE instructional				
Instructional	instruction	onal faculty	<u>faculty salary</u>				
faculty	Number	Average	Average		Number		
salaries	of >	course	class	Х	of classes		
Student	courses	(assigned)	(section)		(sections)		
credit hours		credit	size		Number		
		value			of courses		

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

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

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

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

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