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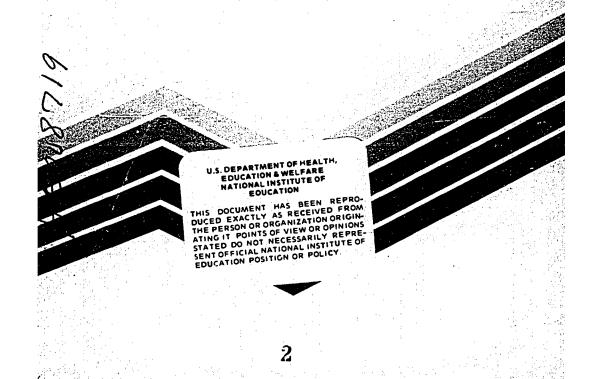
ABSTRACT

The 1976 supplement presents higher education price index data for fiscal years 1971 through 1976. The basic study, "Higher Education Prices and Price Indexes" (ED 123 996) presents complete descriptions of the indexes together with index values and price data for fiscal years 1961 through 1974. Indexes are presented for research and development, professional salaries, faculty salaries and fringe benefits, administrator salaries, nonprofessional salaries, contracted services, hardcover books and periodicals, building construction and equipment, and average resident undergraduate student charges. Some data are presented according to institutional type and control. (MSE)

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Higher Education Prices and Price Indexes

1976 Supplement

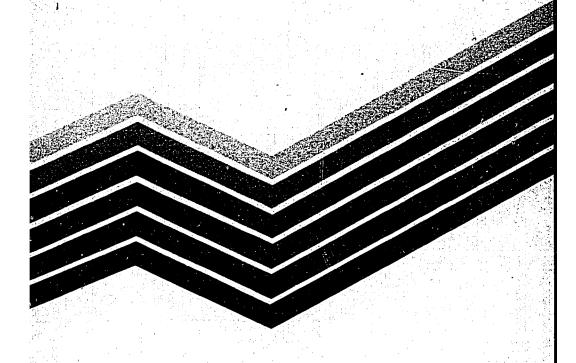




Higher Education Prices and Price Indexes 1976 Supplement

by

D. Kent Halstead



U.S. Department of Health, Education, and Welfare David Mathews, Secretary Virginia Y. Trotter, Assistant Secretary for Education Office of Education Edward Aguirre, Commissioner



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INTRODUCTION

Publication Information

This 1976 Supplement presents higher education price index data for fiscal years 1971 through 1976. The supplement is published yearly shortly after the fiscal year to which the latest data refer. The index values refer to the entire year, not any specific month of the year.

The basic study, Higher Education Prices and Price Indexes,¹ presents complete descriptions of the indexes together with index values and price data for fiscal years 1961 through 1974. The study includes a discussion of index number theory and computation, explains the uses and limitations of price indexes, and describes the effects of inflation on "real expenditures" for current operations, research and development, and physical plant additions for 1961–74. Users of higher education price indexes should consult this study for the complete technology of index theory and design, and for earlier price series listings.

Brief Explanation of Price Indexes and Their Use

A price index series measures the effects of price change, and price change only, on a fixed group of items. The procedure in calculating the index is to measure price change by repricing each year and comparing aggregate costs of the goods and



¹D. Kent Halstead, Higher Education Prices and Price Indexes, U.S. Department of Health, Education, and Welfare, Office of Education, U.S. Government Printing Office, 1975. Order by Stock Number 017–080–01418–1 for \$1.90 from Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

services bought in the base period.2 The amount and quality of the selected commodities that comprise the market basket being indexed must remain constant so that only the effects of price changes are reflected. Under these restrictive conditions, the change in price index values from year to year may be interpreted as the change in dollars required to offset the effects of inflation in buying the same kinds and amounts of goods and services previously purchased.

The indexes reported here measure price changes from a designated reference date—1967—which equals 100.0. An index value of 115.0, for example, represents a 15 percent increase over 1967 values. This change can also be expressed in dollars. The price of \$100 dollars worth of goods and services purchased in 1967 has risen to \$115. Movements of the index from one year to another are usually expressed as percent changes by dividing the difference in index values from one year to the next by the earlier year's index value. Thus an increase in index values from 125.6 to 134.4 would be a yearly increase of (134.4-125.6)/125.6=7.0%.

A price index compiled and published regularly can serve the following uses:

- (1) Index values may be projected into the future to estimate the degree of change in expenditure levels that will be necessitated by any anticipated price changes. If price increases are expected, the projected index values are used to "inflate" expected "real resource" needs to equal actual dollar future funding requirements.
- (2) Past expenditures may be compared with movements in a price index to ascertain whether spending has kept pace with price level changes. Adjusting expenditures by an appropriate price index to convert "actual" or "current" dollars to "constant" dollars permits comparison over time of the real purchasing power of funding levels,

² For the Higher Education Price Index (HEPI) and the Research and Development Price Index (R &DPI), the base period at which time the composition of the market basket of goods and services was determined is fiscal year 1972. (See table A).

(3) Similar to (2), dollar incomes may be "deflated" by a price index to identify trends in the level of real purchasing power of funding by various sources.

(4) Price indexes may be used to provide automatic "inflation adjustment" of various administrative and contractual transactions. The price charged a particular service, for example, may be "tied" to input prices or the "cost of labor" as measured by an appropriate price index.



BRIEF DESCRIPTION OF INDEXES

Higher Education Price Index

The Higher Education Price Index (HEPI) (table 1) measures average changes in prices of goods and services purchased by colleges and universities through current-fund educational and general expenditures. Educational and general operations include the functions of instruction and departmental research, extension and public service, educational programs such as workshops and instructional institutes supported by sponsors outside the institution, student services, general administration and expenses, staff benefits, libraries, and operation and maintenance of the physical plant. Sponsored research and auxiliary enterprises are not priced by the HEPI.

The HEPI is based on the prices (or salaries) of faculty (table 4); administrators and other professional service personnel (tables 3 and 5); clerical, technical, service, and other nonprofessional personnel (table 6); and contracted services (table 7) such as data processing, communication, and transportation; supplies and materials; equipment; books and periodicals (table 8); and utilities. These represent the items purchased for current operations by colleges and universities. Prices for these items are obtained from salary surveys conducted by various national higher education associations, the Bureau of Labor Statistics, and the National Center for Education Statistics; and from components of the Consumer Price Index (CPI) and the Wholesale Price Index (WPI) published by the U.S. Department of Labor, Bureau of Labor Statistics.

The quantities of these goods and services have been kept constant based on the 1971–72 buying pattern of colleges and universities. The weights assigned the various items priced, which represent their relative importance in the current-fund



educational and general budget, are estimated national averages (table A). Variance in spending patterns of individual institutions from these national averages reduces only slightly the applicability of the HEPI to any given institutional situation. Modest differences in the weights attached to expenditure categories have little effect on overall index values. This is because the HEPI is dominated by the trend in faculty salaries and similar salary trends for other personnel hired by institutions, which absorbs or diminishes the effects of price changes in other items purchased in small quantities. (This topic is further discussed in the appendix which also presents separate price data and indexes by institutional type and control.)

TABLE A

Composition by object category of current-fund educational and general expenditures in colleges and universities, and current direct expenditures for sponsored research and development in universities, estimate for fiscal year 1972

		Percent of total	expenditures
	Category	Educational and general 1	Sponsored research
PERSONI	NEL COMPENSATION		
1.0 Prof	essional salaries	58.0	45.7
1.1	Faculty	42.2	17.3
1.2	Research associates		15.1
1.3	Graduate assistants	2.7	10.2
1.4	Other professional, non-		
	doctoral	0	3.1
1.5	Extension and public serv-		
	ice personnel	2.6	0
1.6	Administration and institu-		
	tional services personnel.	8.5	0
1.7	Library personnel	2.0	0
See footn	ote at end of table.		

TABLE A-Continued

		Percent of total	expenditures
	Category	Educational and general 1	Sponsored research
	Non- fossional wodes and		
2.0	Nonprofessional wages and salaries	15.0	14.3
	2.1 Technicians	1.5	7.0
γħ,	2.2 Craftsmen	1.0	2.4
14.4	2.3 Clerical	5.4	2.4
	2.4 Students	2.0	2.5
	2.5 Service	4.0	Ō
airy i	2.6 Operators and laborers	1.1	0
3.0	Fringe benefits	9.0	7.0
CON	TRACTED SERVICES, SUPPLIES,	AND EQUIPME	ENT
4.0	Services	7.3	16.0
	4.1 Data processing and equip-		
程制	ment rental	1.4	2.9
	4.2 Communication	1.5	.8
	4.3 Transportation	.7	2.0
	4.4 Printing and duplication	.5	.8
	4.5 Miscellaneous services	3.2	8.4
	4.6 Consultants and other pro-		
	fessional	0	1.1
5.0	Supplies and materials	3.5	7.0
6.0	Equipment	2.5	10.0
7.0	Books and periodicals	1.7	0
8.0	Utilities	3.0	100.0
	Total	100.0	100.0

¹ Excluding expenditures for sponsored research.

Research and Development Price Index

The Research and Development Price Index (R&DPI), reported in table 2, measures changes in prices of goods and services bought by universities through current direct expenditures for sponsored research. Indirect costs or overhead charges apportioned to research (e.g., expenditures for general administration, operation and maintenance of the physical



Source: See reference cited in text footnote 1, pp. 40-44.

plant, etc.) are excluded from the price index which is designed specifically to price only immediate research activities. Also excluded are major expenditures for expensive scientific equipment and furnishings (generally charged as an indirect cost), and separately budgeted investment in physical plant and permanent fixed equipment.

The direct expenditures for sponsored research priced by the R&DPI are listed in table A, and, as with the HEPI, consist of salaries and wages for professional and nonprofessional personnel, fringe benefits, contracted services, supplies and materials, and equipment (tables 3-7). "Research associates" and "other professional, nondoctoral" are additional occupational categories priced; also added is a "consultants and other professional" contracted services category. The table A weightings show that sponsored research requires nearly twice the relative amount of contracted services, supplies and materials, and equipment as does college and university current educational and general operations.

Boeckh Construction Index

There is no price index specifically designed to price new construction of college and university physical facilities.² However, the Boeckh Division of the American Appraisal Company computes an index for apartments, hotels, and office buildings in the \$200,000 to \$5 million cost range which does appear applicable to the academic and general supporting facilities on college campuses.

The Boeckh Index (table 9) is a fixed-weight input index of wage rates and building material prices weighted together in

^a About 30 percent of the floor area of campus buildings is devoted to classrooms, laboratories, and special educational uses. Offices and study areas take up 20 percent of building space as do general and supporting facilities such as museums, auditoriums, theaters, garages, and hospitals. Residential facilities account for 30 percent of the floor area.

Source: U.S. Department of Health, Education, and Welfare, Office of Education, Inventory of Physical Facilities in Institutions of Higher Education Fall 1969, U.S. Government Printing Office, Washington, D.C. 1974.

accordance with their importance to the cost of a unit of construction in the 1967 base period. The index covers the structural portion of buildings and all plumbing, heating, lighting, and elevators. The index measures construction with fixed specifications, the bill of 55 material items being extremely thorough and complete. Wage rates are based on detailed job specifications for 19 construction occupations. Material and labor costs are computed monthly based on actual transaction prices paid. The material-labor weights, constant since 1967, are material, 51.7 percent; labor, including contractor's overhead, profit, and contingency funding, 48.3 percent.

Capital Equipment Index

The Capital Equipment Index (table 9) prices equipment purchased through investment of plant funds which generally consists of all types of movable property of a permanent nature much of which is purchased for immediate installation ir new buildings. Permanently affixed furniture, machinery, appurtenances, and appliances constructed as part of the building are not classified equipment. Current fund, as opposed to plant fund, expenditures for equipment usually involve small items added to the equipment inventory subsequent and apar from the building construction program.

The general categories of capital equipment purchased by colleges and universities are office and classroom furniture office machines and equipment, laboratory equipment, and general purpose machinery and equipment. More detailed item identification and relative weightings are currently not available. The four broad categories have therefore been priced by suitable proxy price series for major components of the Wholesale Price Index (WPI). These WPI component include many equipment items of the type purchased by colleges and universities.

Construction and Equipment Index

The index for investment of plant funds (table 9) is composite of the new construction and equipment indexes



Land purchases by colleges and universities represent less than 4 percent of plant fund new investment and cannot be priced for index purposes. Through 1971–72, plant fund expenditures were proportioned between those for new building construction and for equipment at a remarkably consistent 79 percent—21 percent split. Beginning in 1972–73, and "linked" to the earlier price series in 1971–72, index weights are—construction, 74 percent; and equipment, 26 percent. These new index weights (79:21 to 74:26) are based on the extent to which a changed budget mix represents an actual increase in the quantity of equipment purchased relative to the quantity of new buildings constructed. Evidently beginning in 1972–73, colleges and universities felt compelled by the skyrocketing costs of new construction to build fewer facilities and to better furnish what was built with more equipment.

Student Charges Data

Price series for resident undergraduate tuition and for room and board charges are presented for public and private universities, 4-year colleges, and 2-year colleges (table 10). Prices are based on charges at the same institutions weighted with fixed 1967 enrollments. Composite charges for all public and all private institutions have been computed—weighted according to the proportional enrollment of each type of institution. The sampling procedure employed is outlined in the table footnotes.

PRICE TRENDS

Trends in prices affecting colleges and universities (and the Consumer Price Index for comparison purposes) are presented in table B and figure A. The table shows index values based on reference year 1971 equals 100.0, and also percent changes in index values from the preceding year to the present year.



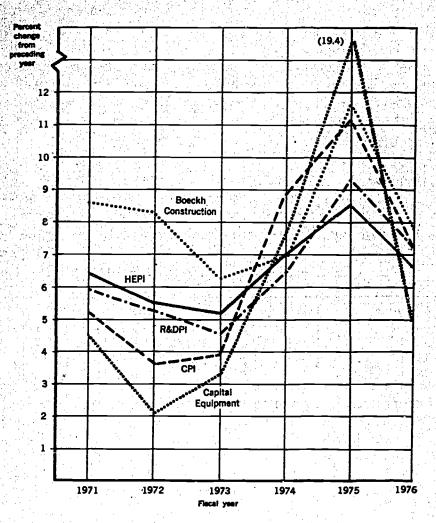
TABLE B

Higher education price indexes and CPI based on reference year 1971 = 100, and annual percent changes, fiscal years 1971-76

1971=100 [Percent changes from preceding year shown in parentheses]

Fiscal year	HEP		R&DPI	CPI	Boeckh	Capital Equipment
1971	100.0	(6.4)	100.0 (5.9)	100.0 (5.2)	100.0 (8.	6) 100.0 (4.6)
1972						
1973	111.2	(5.3)	110.3 (4.7)	107.7 (3.9)	114.9 (6.	2) 105.2 (3.1)
1974	119.1	(7.1)	117.4 (6.5)	117.3 (8.9)	122.7, (6.	8) 113.4 (7.8)
1975	129.2	(8.6)	128.4 (9.4)	130.4 (11.2)	137.0 (11.	6) 135.4 (19.4)
1976	137.8	(6.6)	137.6 (7.1)	139.6 (7.1)	147.5 (7.	7) 142.0 (4.9)
		$A_{m_0}^{(i)} = 0$				

Figure A.—Higher education price indexes and CPI, percent changes from preceding year, fiscal years 1971–76.







Current Operations

In the early 60's inflation for the general consumer was what now appears to be a very modest 1 to 1½ percent a year. Colleges and universities on the other hand were experiencing twice this rate, the cost of conducting current operations increasing nearly 4 percent yearly. Throughout the decade both rates rose steadily reaching a peak in 1970. The gap between the two sectors also narrowed, with colleges facing 6.9 percent inflation in 1970 compared with 5.9 percent for the general consumer.

The next three years, 1971-73, saw a hopeful decline in inflation, but almost as if to catch up, price increases in 1974 and 75 were the greatest on current record. For higher education the 2-year increase was 16.2 percent, while the general consumer faced an explosive 21 percent price hike. Also, beginning in 1974 for the first time, the rate of inflation for higher education was less than that for the general consumer. This reversal has continued during the last three years.

This year inflation has declined, with colleges and universities experiencing a more typical 6.6 percent increase (the compound annual rate from 1967 through 1976 is 6.6 percent). As viewed in perspective, this current rate appears normative and projection of future inflation for budgeting purposes might reasonably

average 6 to 7 percent yearly.

Again, as in the past, colleges and universities have partially isolated themselves from inflation in the general economy by restricting faculty salary increases. Since 1971, salaries paid faculty and other professionals have increased at an annual compound rate of 4.9 percent, substantially less than the 6.9 percent yearly inflation rate for the economy as measured by the Consumer Price Index. If institutions had raised salaries to keep pace with the CPI, they would have experienced an annual inflation rate in current operations of 7.7 percent rather than the actual 6.6 percent rate measured by the Higher Education Price Index. Thus colleges and universities have been able to forestall about 1 percent inflation per year by holding faculty salary increases to less than the price rise faced by general consumers

Currently, the greatest price increases for current operations

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have occurred for books and periodicals, up 14.7 percent since last year, and fringe benefits, up 10.7 percent since 1975. Note that the worst offenders last year—utilities, supplies and materials, and equipment—show much smaller price increases this year. This attenuation in large measure accounts for the decline in inflation for current operations in FY 1976 compared to FY 1975.

The meaning of these inflation statistics as well as the impact of unemployment on college budgets is carefully analyzed in a report "Recent Developments in the Finance of Postsecondary Education" by Donald C. Cell in the 1976 summer issue of the AAUP Bulletin (also reprinted as Nearly Keeping Up: Report on the Economic Status of the Profession, 1975-76, AAUP). The Cell article also addresses causes of inflation, the faculty's current declining share of the college budget, and comments on retrenchment and economizing.

Research and Development

Since both the Higher Education Price Index and the Research and Development Price Index are constructed using many common price series, the previous commentary regarding price movements for current operations applies also to research and development. Again, as last year, the annual rate of price increase for R&D exceeded that for current operations, although by a much smaller amount and for an entirely different reason. Last year, FY 1974 to FY 1975, the greater rate of inflation for R&D was attributable to the large 15.3 percent price increase for contracted services, supplies and materials, and equipment —heavy investments in research. This year, FY 1975 to FY 1976, price increases for these items averaged a much lower 6.2 percent. However, professional salaries at universities, which constitute 45.7 percent of total R&D purchases, increased 6.6 percent compared to the 5.2 percent increase in professional salaries at all institutions paid for current operations. Thus, inflation in R&D exceeded that of current operations this year as a result of universities increasing faculty salaries more than the average salary increase for all institutions.



Higher Education Price Index and major component subindexes, percent changes from preceding year, fiscal years 1971–76

[Number code in parentheses identifies category as outlined in table A]

	Pe	ersonnel co	mpensati	ion		Contracted	services,	supplies, and	equipmen	•	
Fiscal year	Pro- fessional salaries (1.0)	Nonpro- fessional wages and salaries (2.0)	Fringe benefits (3.0)	Total :	Services (4.0)	Supplies and materials (5.0)	Equip- ment (6.0)	Books and periodicals (7.0)	Utilities (8.0)	Total 2	Higher Educa- tion Price Index
1971	5.0	7.8	10.8	6.2	5,4	3.7	4,0	19.9	10.5	6.3	6.4
1972	3.9	7.3	11.2	5.5	6.0	2.1	3.7	13.1	6.8	5.9	5.6
1973	4.5	6.0	9.7	5.5	4.4	3.3	3.1	8.1	5.4	4.7	5.3
1974	5.1	6.3	12.3	6.4	4.7	13.2	6.1	10.3	22.7	9.9	7.1
1975	5.6	8.0	8.6	6.6	8.8	24.8	18.0	12,4	28.3	16.8	8.6
1976.	5,2	8.1	10.7	6.6	4.8	4.6	5,9	14.7	8.0	6.8	6.6

¹ Personnel compensation total index based on weighted average as follows: professional salaries, 70,7 percent; nonprofessional wages and salaries, 18,3 percent; and fringe benefits, 11.0 percent.

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Contracted services, supplies, and equipment total index based on weighted average as follows: services, 40.56 percent; supplies and materials, 19.44 percent; equipment, 13.89 percent; books and periodicals, 9.44 percent; and utilities, 16.67 percent.

^{*}HEPI based on weighted average as follows: personnel compensation, 79.3 percent; contracted services, supplies, and equipment, 20.7 percent. [See reference cited in text footnote 1, pp. 23-25, for corrections made to table A weights (82.0 and 18.0 percent) to derive adjusted values used.]

New Construction and Capital Equipment

Inflation in new construction continued to be high, with FY 1976 prices-up 7.7 percent over last year. At the average 8.1 percent compound rate of inflation since 1971, it would take a delay of only 9 years to double the cost of a new building! Needless to say, institutions should make every effort to speed the planning of new facilities to the extent of adding extra financial support to early development work. For example, speeding up the planning costs by 6 months on a two million dollar building would save \$80,000 at current inflation rates.

From FY 74 to FY 75 the price of capital equipment rose a staggering 19.4 percent. This year, FY 76 prices were only 4.9 percent higher than in FY 75. It is interesting to note from figure A that the inflation rate for capital equipment is the most volatile of the rates plotted, dropping to a low extreme of 2.1 percent during FY 1971-72 and rising to a high extreme of 19.4 percent in FY 1974-75. On the other hand, the Higher Education Price Index for current operations shows the most stable yearly rates of change.

Student Consumer Prices

As pointed out in the 1975 Supplement, student charges, even national aggregated data, show considerable variation in year-to-year changes. It is therefore erroneous to draw serious inference from the magnitude of yearly changes in tuition or room and board. Real trends are more likely recognized from rates of change compounded over an extended time period. Table D presents such rates of change for the 3-year period FY 1974 through FY 1977 together with various tuition ratios for 1967, 1974, and 1977.

The tuition trends found noteworthy from study of table D are the following. Among the six sector-type classifications, public universities have best held the line on tuition, averaging only 4.0 percent increase per year. This rate is substantially below the 7.4 percent yearly increase in prices (HEPI) paid by universities and colleges for current operations. It is remark-

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able that in this age of continuing inflation, State supported universities have been able to hold tuition increases for the past three years to average just \$24 annually.

At the other extreme, public 2-year colleges incurred the greatest relative increase in tuition, a jump of 28.8 percent in three years. This change has tended to narrow the tuition range at public institutions with the ratio of university to 2-year college charges declining from 1.8 in 1974 to 1.6 in 1977.

The private sector showed marked increases in tuition, averaging \$211 more per year at universities, and \$172 at 4-year colleges. In both instances these additions increased the "tuition gap" with the public sector. The ratio of private to public university tuition increased from 4.1 in 1974 to 4.6 in 1977; the 4-year college ratio increased from 4.3 to 4.5.

The more modest increase in tuition at private 2-year colleges improved their competitiveness with public counterparts, the "tuition gap" narrowing from a ratio of 4.1 to 3.8. Also, because private 2-year colleges increased their tuition much less than private universities and 4-year colleges, the price differentials within the private sector increased from 1.0:1.5:1.8 in 1974 to 1.0:1.6:2.0 in 1977.

As previously cautioned, trends should not be interpreted from single year changes in student charges. Yet a decided downturn in tuition increases for 1977 can be noted for three of the institutional groupings, the others exhibiting a steady trend. At public universities, 1977 tuition was only 3.0 percent higher than in 1976. At public 4-year colleges it was 3.4 percent higher, and at private 2-year colleges only 2.4 percent higher. Also, at all institutions room and board charges increased far less in 1977 than in previous years. Perhaps this moderation of prices in the face of recent past and expected future inflation is continuing evidence that colleges and universities give little heed to actual costs in setting student charges.



TABLE D

Changes in student tuition and room and board charges for the 3-year period FY 1974–77, and tuition ratios for 1967, 74, and 77, by type and control of institution.

	the state of the s	and the second of
TUITION INCREASES FY 74-77	Compound yearly annual rate amount	Current 1977 level
Public 2-year colleges	. 8.8% +\$31	\$411
Private 4-year colleges		\$2,455
Private universities	. 8.1% +\$211	\$3,025
Public 4-year colleges		\$549
Private 2-year colleges	. 5.5% +\$76	\$1,551
Public universities	. 4.0% +\$24	\$661
HEPI (FY 73-76)	. 7.4%	
diagram to a silika in a series di financia di Caranta di Caranta di Caranta di Caranta di Caranta di Caranta d		The state of the part of the part

TUITION RATIOS	40.00					
	1	Private to p	ublic		Between type	
)			Public		Private
	19	67 1974	1977 1	967 1974	1977 1967	1974 1977
Universities	4	.3 4.1	4.6	1.5 1.8	1.6 1.9	1.8 2.0
4-year colleges						
2.vear colleges				1.0 1.0		

ROOM AND BOARD INCREASES FY 74-77	Compound annual rate	Average yearly amount	Current 1977 level
Private 2-year colleges	7.0%	+\$75	\$1,236
Private universities	6.9%	+\$96	\$1,591
Private 4-year colleges	6.4%	+\$76	\$1,354
Public universities	6.2%	+\$75	\$1,347
Public 4-year colleges	3.8%	+\$41	\$1,152

Source: Table 10.



Higher Education Price Index and major component subindexes, fiscal years 1971-76

1967=100 [Number code in parentheses identifies category as outlined in table A]

Nonpro- fessional Frin wages bene and (3.0 salaries (2.0)	fits Total	Services (4.0)	Supplies and ma- terials (5.0)	Equipoment (6.0)	Books and periodicals (7.0)	Utilities (8.0)	Total 2	- Higher Educa- tion Price Index	Annua perce increa over previo year
a de Maria de Lagrado. Modificação de la Aleita de Lagrado de Lagra		e lago de la lago de la companyone de la c		وريالة والمتاركة والمتاركة		_{gar} aya di late,	en e		
126.9 162	2.0 131,2	119.3	110,3	115.1	144.8	114.6	118.6	128.6	6
136.1 180	0.2 138.4	126.4	112.6	119.4	163.8		100 100 100 100	14.41	5
and the state of t	1. A	Although the second	T. 10 10 10 10 10 10 10 10 10 10 10 10 10	The second of the	177.0	129.0	131.5	143.0	5
153.4 222	2.0 155.3	138.1	131.6	130.6	195.3	158.3	144.5	153.1	7
165.7 241	1.0 165.5	150.2	164.2	154.1	219.5	202.9	168.8	166.2	8
179.1 266	5.7 176.4	157.4	171.8	163.2	251.8			أوالواء فيراويه والموجر	6.
	136.1 180 144.3 197 153.4 227 165.7 247	136.1 180.2 138.4 144.3 197.7 146.0 153.4 222.0 155.3 165.7 241.0 165.5	136.1 180.2 138.4 126.4 144.3 197.7 146.0 131.9 153.4 222.0 155.3 138.1 165.7 241.0 165.5 150.2	136.1 180.2 138.4 126.4 112.6 144.3 197.7 146.0 131.9 116.3 153.4 222.0 155.3 138.1 131.6 165.7 241.0 165.5 150.2 164.2	126.9 162.0 131.2 119.3 110.3 115.1 136.1 180.2 138.4 126.4 112.6 119.4 144.3 197.7 146.0 131.9 116.3 123.1 153.4 222.0 155.3 138.1 131.6 130.6 165.7 241.0 165.5 150.2 164.2 154.1 179.1 266.7 176.4 157.4 171.8 163.2	136.1 180.2 138.4 126.4 112.6 119.4 163.8 144.3 197.7 146.0 131.9 116.3 123.1 177.0 153.4 222.0 155.3 138.1 131.6 130.6 195.3 165.7 241.0 165.5 150.2 164.2 154.1 219.5	136.1 180.2 138.4 126.4 112.6 119.4 163.8 122.4 144.3 197.7 146.0 131.9 116.3 123.1 177.0 129.0 153.4 222.0 155.3 138.1 131.6 130.6 195.3 158.3 165.7 241.0 165.5 150.2 164.2 154.1 219.5 202.9	136.1 180.2 138.4 126.4 112.6 119.4 163.8 122.4 125.6 144.3 197.7 146.0 131.9 116.3 123.1 177.0 129.0 131.5 153.4 222.0 155.3 138.1 131.6 130.6 195.3 158.3 144.5 165.7 241.0 165.5 150.2 164.2 154.1 219.5 202.9 168.8	136.1 180.2 138.4 126.4 112.6 119.4 163.8 122.4 125.6 135.8 144.3 197.7 146.0 131.9 116.3 123.1 177.0 129.0 131.5 143.0 153.4 222.0 155.3 138.1 131.6 130.6 195.3 158.3 144.5 153.1 165.7 241.0 165.5 150.2 164.2 154.1 219.5 202.9 168.8 166.2

as follows: professional salaries, 70,7 percent; nonprofessional wages and salaries, 18,3 percent; and tringe benefits, 11.0 percent.

1 Contracted services, supplies, and equipment total index based on weighted average as follows: services, 40,56 percent; supplies

and materials, 19.44 percent; equipment, 13.89 percent; books and

Personnel compensation total index based on weighted average

periodicals, 9.44 percent; and utilities, 16.67 percent.

HEPI based on weighted average as follows: personnel compesation, 79.3 percent; contracted services, supplies, and equipment 20.7 percent [See reference cited in text tootnote 1, pp. 23-25, corrections made to Table A weights (82.0 and 18.0 percent) derive adjusted values used.]

Research and Development Price Index and major component subindexes, fiscal years 1971-76

1967=100

[Number code in parentheses identifies category as outlined in table A]

		Personnel co	ompensation		1 . Contracte	d services, s	The second secon			
Fiscal year	Pro- fessional salaries (1.0)	Nonpro- fessional wages and salaries (2.0)	Fringe benefits (3.0)	Total I	Services (4.0)	Supplies and materials (5.0)	Equipment (6.0)	Total ?	R&D Price Index 1	Annual percent increase over previous year
							anti-Malaka			
1971	125.9	126.4	162.0	129.8	124.5	110.1	116.5	119.0	126.2	5.9
1972	131.6	134.7	180.2	137.3	131.3	112.6	121.4	124.3	133.0	5.4
1973	136.1	142.5	197.7	143.9	137.4	117.3	125.5	129.6	139.2	4.7
1974	142.4		222.0	152.7	144,4	134.0	133.9	139.0	148.2	6.5
1975	150,6		241,0	163.0	154.4	168,8	163.7	160.3	162.1	9.4
1976	160,5	177.5	266.7	175.2	165,3	176.8	173.6	170.3	173.6	71

Personnel compensation total index based on weighted average as follows: professional salaries, 68.21 percent; nonprofessional wages and salaries, 21.34 percent; and fringe benefits, 10.45 percent.

² Contracted services, supplies, and equipment total index based on weighted average as follows: services, 48.5 percent; supplies and materials, 21.2 percent; and equipment, 30.3 percent.

R&D Price Index based on weighted average as follows: personnel compensation, 67.0 percent (professional salaries, 45.7 percent; nonprofessional wages and salaries, 14.3 percent; fringe benefits, 7.0 percent); contracted services, supplies, and equipment, 33.0 percent (services, 16.0 percent; supplies and material, 7.0 percent; and equipment, 10.0 percent.)

Subindexes of salaries of professional personnel used for the HEPI and R&DPI, fiscal years 1971-76

1967=100 [Number code in parentheses identifies category as outlined in table A]

	HEPI	R&DPI- faculty	Research asso-	Graduate assist	11, 17	professio		Exten- sion and public	Adminis- tration and insti-	Library	official and a second	ssional es total
Fiscal year	faculty (1.1)	(uni- versity) (1.1)	ciates (1.2)	ants (1.3)	Chemists		Total ! (1.4)	service per- sonnel (1.5)	tutional services personnel (1.6)	personnel (1.7)	1 1 1 1 1 1 1 1	R&DPI 3 (1.0)
1971	127.2	126.1	125.8	125.8	125.0	124.8	124.9	127,2	est. 129.2	est. 128,5	127.5	125,9
1972	3.7 or a - 1		,				er errer in die gew	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	135.8		132.5	
1973	137.4	134.8	136.8	136.8	136.3	138.0	137.0	137.4	est. 143.3	est. 142.2	138.4	136.
1974	1.0	A CONTRACTOR			146.0	- 10a - 1	per engle for the fig			J. 30	145.4	and the second of the second
1975	152.3	148.6	151.0	151.0	160.7	157.7	159.2	152.3	est. 160.7	est. 157.1	153.6	:150.€
1976	161.1	158.1	160.9	160.9	171.3	168.4	169.9	161.1	163.8	165.0	161.6	160.5

Other professional, nondoctoral total index based on equally weighted average of chemist and engineer salaries.

associates, 33.0 percent; graduate assistants, 22.3 percent; another professional, nondoctoral, 6.8 percent.

Sources: American Association of University Professors; College and University Personnel Association; U.S. Department of Commerce Bureau of Labor Statistics; U.S. Department of Health, Education and Welfare, Office of Education.

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³ HEPI professional salaries total index based on weighted average as follows: faculty, 72.76 percent; graduate assistants, 4.66 percent; extension and public service personnel, 4.48 percent; administration and institutional services personnel, 14.66 percent; and library personnel, 3.44 percent.

R&DPI professional salaries total index based on weighted average as follows: faculty (university), 37.9 percent; research

TABLE 4

Indexes and dolla	ir amounts of facul	ty salaries and	d fringe benefit	s, by acad	emic rank,	fiscal years
		1971	~76			

Sland Land	Profes	sors	Associate p	rolessors	Assistant p	rofessors	Instruc	tors
Fiscal year	Amount	Index	Amount	Index	Amount	Index	Amount	Index
	SALARIES	S¹-ALL	INSTITÚ	TIONS	(HEP 1.1		ر از	
1971	C12 31 4	1272	c12 702	107 1	\$11,347	1260	60 USV	127.5
1972					11,765	17,100		
1973		(1796)	t transfer to the com-	1	12,289	P. Service 1. 1945		1. The second of
1974		ing to dept in	in in the first of the	agrae signification	12,872	海罗 化二氯化二氯	10,344	ه په احد (ماريز) کې دو او <mark>ال</mark>
1975		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 L	13,578	والمستنب في المالية		of the state of
1976	23,233	161.5	1/,449	161.1	14,336	160.3	11,60/	163.0

\$19,600 125.6 \$14,380 126.5 \$11,760 126.5 \$9,020 125.8 126.1

20,250 129.7 14,920 131.2 12,200 131.2 9,490 132.4 130.6

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1971...

1972.

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7	K.	31,0	i.,	11.15		in j					ÿÇL	191					r Maria Maria	$\{a_i\}_i$	$\mathbb{F}[g]$	d. (f(k')		. •	$l_{i,j}$				1.1		n e		1300g

FRINGE BENEFITS -ALL INSTITUTIONS (HEPI AND R&DPI 3.0)

0 166.2 \$1,002 179.9 162.	\$1,538 160.9	\$2,084 153.9	t geralika da katalan da katalan Da katalan da katalan d	1971
0 184:1 1,149 206.3 180				1972
1. 1. 4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.				1973
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1 204.7 1,263 226.8 19 1 231.6 1,441 258.7 22 7 250.3 1,519 272.7 24 1 275.1 1,690 303.4 26	2,127 222.5 2,329 243.6	2,744 202.7 3,006 220.0		1973 1974 1975 1976

Average salary for full-time faculty based on standard 9-month academic year.

Source: American Association of University Professors, relevant issues of the AAUP Bulletin.

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² Faculty total index for all institutions (HEPI 1.1) is a weighted average based on the proportion of total faculty salaries paid to each academic rank in 1971-72 as follows: professors, 34.5 percent; associate professors, 25.2 percent; assistant professors, 30.2 percent; and instructors, 10.1 percent.

Approximately 150 universities in AAUP Category I which "includes institutions which offer the doctorate degree and which conferred in the most recent three years an annual average of tifteen or more earned doctorates covering a minimum of three nonrelated disciplines."

^{*} Faculty total index for universities (R&DPI 1.1) is a weighted average based on the proportion of total faculty salaries paid in

¹⁹⁷¹⁻⁷² to each academic rank engaged in R&D as follows: profesors, 44.3 percent; associate professors, 28.8 percent; assistar professors, 22.7 percent; and instructors, 4.2 percent.

^{*} Fringe benefits are estimated by subtracting AAUP salaries tron AAUP compensation data.

Weighted average based on the proportion of total fringe benefit paid to each academic rank in 1971-72 as tollows: professors, 34, percent; associate professors, 24.8 percent; assistant professors 30.4 percent; and instructors, 10.0 percent.

TABLE 5

Annual salaries of administrative officers in colleges and universities, fiscal years 1972–76

[Number code in parentheses identifies category as outlined in table A]

Position	1971-72	1973-74	1975-7
Index number 1966-67 = 100 (1.6)	135.8	150.8	163.
Mean for all positions	\$17,215	\$19,112	\$20,76
Chief executive officer (pres)	29,805	32,612	35,33
Chief academic officer	23,771	26,308	28,16
Registrar	14,373	15,896	17,87
Director of admissions.	15,178	16,919	18,97
Director, computer center	17:119	19,212	20,61
Chief business officer	21,387	23,862	25,37
Purchasing agent	13.119	14,580	16,30
Director, personnel services	15.317	17,565	18,69
Director, physical plant	15,039	16,840	18,25
Comptroller	16,537	18,528	19,70
Chief development officer	19,961	21,561	23,58
Chief public relations officer	15,892	17,484	19,29
Director, information office.	13.211	14,977	16,27
Chief student life officer		21,320	22,93
Director, student placement	14,103	15,479	16,59
Director, student financial aid	12,447	14,002	15,849
Director, student counseling	16,046	17,767	19,159

Note: Salary data are for full-time employees based on 12 months of service and exclude fringe benefit payments. The 1975–76 data are based on 1,138 institutional responses. Individual position salaries are mean values. Excluded are administrative positions for auxiliary

enterprise operations; e.g., director of rood services, student housing, student union, athletics, and bookstore manager.

Source: College and University Personnel Association, relevant issues of the Administrative Compensation Survey, Washington, D.C.



TABLE 6

Subindexes of wages and salaries of nonprofessional personnel used for the HEPI and R&DPI, fisca years 1971–76

1967=100 [Number code in parentheses identifies category as outlined in table A]

		echnician	\$	Craftsmen	Clerical	Students	Service	Operators and laborers	Nonprofessional wages and salaries total (2.0)		
Fiscal year	Engi- neering	Drafts- men	Total ¹ (2.1)	(2.2)	(2.3)	(2.4)	(2.5) (HEPI only)	(2.6) (HEPI only)	and the second	R&DPI	
		V.						and the second			
1971	125.9	123.4	125.5	127.9	125.7	128.1	128.0	128.1	126.9	126.4	
1972	132.3	132.3	132.7	137.9	133.4	138.5	138.7	138.5	136.1	134.7	
1973	138.5	140.5	140.0	146.6	140.6	147.2	148.0	147.2	144.3	142.5	
1974	146.8	149.9	148.2	157.9	149.6	157.7	156.0	157.7	153.4	151.7	
1975.	160.0	161.9	159.6	est. 172.1	164.0	est. 171.9	164.0	est. 171:9	165.7	164.6	
1976.	173.0	173.9	172.0	est. 186.2	176.0	est. 186.0	178.7	est. 186.0	179.1	177.5	

¹Technicians total index based on weighted average as follows: engineering technicians, 50 percent; draftsmen, 25 percent; and electronic data processing personnel (see table 7 for price series), 25 percent.

² HEPI nonprofessional wages and salaries total index based on weighted average as follows: technicians, 10.0 percent; craftsmen,

^{6.7} percent; clerical, 36.0 percent; students, 13.3 percent; service, 26.7 percent; and operators and laborers, 7.3 percent.

R&DPI nonprofessional wages and salaries total index based on weighted average as follows: technicians, 48.9 percent; craftsmen.

^{16.8} percent; clerical, 16.8 percent; and students, 17.5 percent

Subindexes of contracted services used for the HEPI and R&DPI, fiscal years 1971–76

1967 = 100 [Number code in parentheses identifies category as outlined in table A]

	Data processing ar	nd equipment rental		Printing Miscel-	Con- sultants other
Fiscal year	Edp Edp per hard sonnel ware salaries	Total 1 Total 1 HEPI R&DPI (4.i) (4.1)	munica- portation	and laneous dupli services	profes- Services Services sional total total services HEPI-1 R&DPI-1 (4.6) (4.0) (4.0) (R&DPI-1
1971	126.8 98.5	107.0 115.5	081 1356	110 7 126 4	only)

	a today a laboratoria de la tagante	1010 1010 110.0	100.1 123.0	112./ 170.4 170'(0 IIY.5 k IZ4:5
1972					
		101.9 111.5 121.0	11/.4 143.2	126.5 133.4 134.	3 1764 1313
1973	140.6	1000 110 4 400		ne come di la laci di con decenda	
· 17/0,	142.0	105.2 116.4 127.6	1208 1463	1321-1/06-120/	2 121 0 127 N
1074			ANTERIOR TAND IN	105-1-140-0-102-6	7 - 101.2 101.4
1974	1/O /	_ 10K	1001 140 0	1A4 44A# 4AA	

1975. 156.4 110.4 124.2 138.0 132.2 153.3 159.9 161.9 154.9 150.2 154.4 1976. 168.0 115.8 131.5 147.1 140.5 170.8 163.7 172.7 165.5 157.4 165.3

R&DPI services index total based on weighted average as follows: data processing and equipment rental, 18.1 percent; communication, 5.0 percent; transportation, 12.5 percent; printing and duplication, 5.0 percent; miscellaneous services, 52.5 percent; and consultants and other professional services, 6.9 percent.

Data processing and equipment rental total index based on weighted average as follows: HEPI—edp personnel salaries, 30 percent; edp hardware, 70 percent. R&DPI—edp personnel salaries, 60 percent; edp hardware, 40 percent.

² HEPI services index total based on weighted average as follows: data processing and equipment rental, 19.2 percent; communication, 20.55 percent; transportation, 9.6 percent; printing and duplication, 6.85 percent; and miscellaneous services, 43.8 percent.

TABLE 8

Average prices and indexes for U.S. hardcover books and periodicals, and foreign monographs, fisca years 1971–76

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Year		· U.S. hardcov	er books	U.S. perio	dicals	Foreign mono	graphs ¹	Total book and periodical
Calendar	Fiscal	Average price	Index*	Average price	index³ FY	Average price FY	Index ^a FY	index ³ FY (7.0)
1970	1971	\$11.66	146.9	\$10.41	139.9			144.8
1971	1972	13.25	166.9	11.66	156.7	\$4.65	1163.8	163.8
1972	1973	12.99	⁵ 173.3	13.23	177.8	5.37	189.2	177,0
1973	1974	12.20	⁵ 179.8	16.20	217.7	5,89	207.5	195.3
1974	1975	14.09	207.6	434,55	238.0	6.42	226.1	219.5
1075	1976	16.19	238.6	38,94	268.2	7.59	267.4	251.8

during the fiscal year by the Library of Congress from approximately 100 foreign countries.

* Weighted average based on the estimated proportion of the total

acquisition budget expended for each category. Weights used—U.S. hardcover books, 55 percent; U.S. periodicals, 30 percent; and foreign monographs, 15 percent.

Indexes are not fixed-weight indexes and reflect changes in the type and mix of books and periodicals from year-to-year. The fiscal year index refers to average price in the previous calendar year due to the normal time delay between published date and purchase.

The total book and periodical index value of 163.8 was assigned to foreign monographs to introduce this price series without effect in FY 1972. The foreign monographs indexes as a result have no relevance to 1967=160.

Beginning in 1972 and completed in 1973, Publishers Weekly converted from pricing hardcover books per title (a set of books under one title is priced as a single entry) to pricing per volume. This discontinuity has been avoided by adjusting 1972 prices upward (x

1.059) and linking the 1973-75 price series (x 1.17) to an estimated

All hardcover books, paperbacks, and pamphlets purchased long term price trend of hardcover books based on information prouring the fiscal year by the Library of Congress from approximately vided by book wholesalers.

Beginning in 1974, and linked to the previous Brown price series
U.S. periodicals are priced on a 1-year subscription basis by the F.W
Faxon Co. based on 29 Authority Groups weighted according the thi

number of libraries among Faxon's clients that subscribe to each title in each group.

Source: Prices of hardcover books are based on tabulations recorded in the "Weekly Record" section of Publishers Weekly. No included are mass-market paperbacks, government documents, and certain multivolume encyclopedias. Published in The Bowker Annual

U.S. periodical prices for 1970-74 are prepared by Norman B Brown based on a total group of 3,151 titles published in the Jul Issues of the Library Journal. Since 1974, U.S. periodicals are prices

of Library and Book Trade Information, R.R. Bowker, New York.

by the F. W. Faxon, Co. and reported by F. F. Clasquin in the Octobe issues of Library Journal.

Foreign monographs are priced according to an unpublished price series prepared by the Library of Congress.



TABLE 9

Price indexes of building construction and capital equipment purchased by colleges and universities, fiscal years 1971–76

1967=100

						onstruction
4		iscal year		ruction E dex ¹	quipment and Index 3	I Equipment Index 3
			<u>rational for the second of th</u>			
100	1971 1972	e digitalista (m. 1905). 1900 - Maria Mari		134.7 145.7	115.5 117.9	130.7 139.9
	1973			154.8	121.5	147.6
14	1974 1975			165.3 184.5	131.0 156.4	158.0 179.0
	1976			198.7	164.0	191.6

¹ The Boeckh apartments, hotels, and office buildings index compiled by the Boeckh Division of the American Appraisal Company, Inc., and reported in Construction Review, published monthly by the U.S. Department of Commerce.



² For equipment, a weighted average of the following items from the Wholesale Price Index network: commercial furniture, 40 percent; office and store machines and equipment, 25 percent; general purpose machinery and equipment, 30 percent; and machinery and equipment, 5 percent.

^{*} Weighted average as follows: through FY 1972, construction, 79 percent; equipment, 21 percent. Beginning in FY 1973, and "linked" to the earlier price series in FY 1972, construction, 74 percent; equipment 26 percent.

TABLE 10

Fixed weight average resident undergraduate student charges and indexes, by institutional type and control, fiscal years 1967, 1974-77

PUBLIC INSTITUTIONS

	Tot	al tuition, ro	oom and bo	ard		Tuition a	nd fees		Room and board				
Fiscal year	All	University	4-year 1	2-year ²	All 3	University	4-year 1	2-year 1	All	University	4-year i	2-yea	
					Am	ount							
1967 1974	\$1,077 1,517	\$1,184	\$987	(5)	\$302 478	\$350	\$287	\$237	\$775	\$834	\$700	(9)	
1974	1,498	1,711	1,382		459	588	450		1,039	gg to a second	932		
1975	1,617	1,827	1,517		489	621	488		1,128		1,029		
1976 1977	1,768 1,808	1,962 2,008	1,679 1,698		523 546	642 661	531 549		1,245 1,262	1,320 1,347	1,140		
					Index 19	967=100							
1967	100,0	100.0	100.0	(5)	100.0	100.0	100.0	100.0	100,0	100.0	100.0	(4)	
1974	140,9	144.5	140.0	alia (11 %). A ragina 13 may 19 may 19 may 19 19 may 19 may	158.3	168.0	24 (4)	134.6	and the first of the second	Section 15	40.14		
1975	152.1	154.3	153.7	at seem et line on a final and a efector on each prof	168.6	177,4	170.0	142.2	145.5	144.6	147.0.		
1976	166.3	165.7	170.1		180.4	183.4	185.0	159.9	160.6	158.3	164.0	• • • • • •	
1977	170.1	169.6	172.0		188.3	188.9	191.3	173.4	162.8	161.5	164.6		

TABLE 10—Continued

	Company of the second of the s			P	RIVATE	NSTITUT	IONS					
Fiscal year	Total tuition, room and board				Tuition and fees			Room and board				
	All	Universit	y. 4year ^s	2-year ⁷	All	Universit	4-year	2-year	7 A 8	Uni- versity	4year (2-year
				The second secon		nount	A Combany (1979)					
1967	\$2,126	\$2,487	\$1,998	\$1,593	\$1,231	\$1,489	\$1,146	\$796	\$895	\$998	\$852	\$797
1974	3,212	3,693	3,063	2,333	2,039	2,393	1,938	1,323	1,173	1,302	1,125	1,010
1975	3,416	3,883	3,276	2,528	2,170	2,533	2,074	1,377	1,246		1,202	1,151
1976	3,728	4,283	3,556	2,716	2,364	2,741	2,267	1,514	1,364	1,542	1,289	1,202
1977	3,994	4,616	3,809	2,787	2,572	3,025	2,455	1,551	1,422	1,591	1,354	1,236
					Index	967=100						
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100,0
1974	151.1	148.5	153.3	146.5	165.6	160.7	169.1	166.2	131.1	130.5	130.2	126.7
1975	160.7	156.1	164.0	158.7	176.3	170.1	181.0	173.0	139.2	135.3	141.1	144,4
1976	175.4	172.2	178.0	170.5	192.0	184.1	197.8	190.2	152.4	154.5	151.3	150.8
1977	187.9	185.6	190.6	175.0	208.9	203.2	214.2	194.6	158.9	159.4	158.9	155.1

Public 4-year colleges with 1966-67 enrollment greater than 2,000 students. California State Colleges and City University of New York (CUNY) colleges charging nominal tuition "fees" and well above average room and board charges (California) are excluded.

Public 2-year colleges with 1966-67 enrollment greater than 1,000 students. Public 2-year colleges in California and in the City University of New York System charging nominal tuition "fees" are excluded.

Tuition values for all public institutions are fixed weight averages based on full-time equivalent 1972-73 student enrollments as follows: universities, 2,066,650 FTE students (37.1 percent); 4-year colleges, 1,712,488 (30.8 percent); and 2-year colleges, 1,787,600 (32.1 percent). Prior to 1974 (and linked to the above series in 1974) tuition values for all public institutions fixed averages based on full-time equivalent 1966-67 student enrollment as follows: universities, 1,476,669 (43.0 percent); 4-year colleges, 1,149,198 (33.4 percent); and 2-year colleges, 812,667 (23.6 percent).

Room and board values for all public institutions are fixed weight averages based on full-time equivalent 1966-67 student enrollments at public universities, 1,476,669 (56.2 percent); and public 4-year colleges, 1,149,198 (43.8 percent). Few of the 812,667 students attending public 2-year colleges contract for room and board. Income

tor housing and food services at public 2-year colleges amounted to only 3.8 percent of the total in the public sector in 1966-67. Consequently, excluding 2-year college room and board charges in the calculation of values for all public institutions introduces minimal inaccuracy.

Many public 2-year colleges primarily serving commuting students living at home do not provide room and board services. Charges published by the Beta Club have not been reported with sufficient consistency for the 1961-75 period to establish a valid trend.

A random sample of private 4-year colleges with 1966-67 enrollment greater than 1,000 students.

Private 2-year colleges with 1966-67 enrollment greater than 200 students.

on full-time equivalent 1966-67 student enrollments as follows: private universities, 543,351 (32.2 percent); private 4-year colleges, 1,019,915 (60.4 parcent); and private 2-year colleges, 124,205 (7.4 percent). Only slight shifts in this attendance pattern have occurred. The 1972-73 FTE student enrollment in the private sector is as follows: universities, 564,115 (31.0 percent); 4-year colleges, 1,147,727 (63.1 percent); and 2-year colleges, 105,780 (5.8 percent).

APPENDIX—PRICE INDEXES BY INSTITUTIONAL TYPE AND CONTROL

The Higher Education Price Index (HEPI) is based on national averages—both the item weights and the price series used. The expenditure pattern of individual institutions and the prices experienced in some locations may differ markedly from these averages. Variance in the weightings or budget proportions spent for various items is not particularly significant because the HEPI is dominated by the trend in faculty salaries and similar salary trends for other personnel services. Variance in prices may be more critical, although it should be remembered that absolute differences in prices do not affect price index values—only price changes. Therefore, the substantial difference in salary levels that may exist between a private university in the East, for example, and a public college in the Midwest is not necessarily a factor in determining their respective rates of inflation. Furthermore, many hardware items purchased by colleges and universities are subject to common market conditions or standardized pricing on a national basis which tend to minimize geographical price change differentials.

Where real differences in rates of price change occur, institutions may experience substantially greater or less inflation than that measured by national averages. Yet this event is more likely to be a short term phenomenon than a long range trend. Local deviations in price changes from national averages tend to balance out, with the price series for individual colleges approaching, over time, the trends for all institutions as measured by the HEPI. An individual institution, for example, cannot long lag behind national pay rate increases and still remain competitive.

Although the HEPI is a valid and applicable measure of general inflation for most colleges and universities, some institutions may feel special circumstances warrant calculation of their own index based on selected price series and weighting according to a distinct expenditure pattern. Also, to be alert to possible deviant trends in prices for identifiable groups of institutions, there is some justification for maintaining separate price series for universities, 4-year colleges, and 2-year colleges by sector. At present, the only known published price data subclassified in this manner are salaries and fringe benefits surveyed by the American Association of University Professors. The data presented in table A-2 indicate that during the 5-year period FY 1971-76, faculty salaries increased least (4.2 percent compounded annually) for church-related institutions awarding only the baccalaureate or equivalent degree (AAUP category IIB), and most (6.3 percent compounded annually) for public 2-year colleges without academic ranks (AAUP category IV). Faculty and fringe benefits increased least (7.3 percent compounded annually) for private universities (AAUP category I), and most (17.3 percent compounded annually) for public 2-year colleges without academic ranks (AAUP category IV).

What impact do these differences have if incorporated in specialized institutional group price indexes? The indexes, otherwise computed using the HEPI price series and weights, are shown in table A-1. The previously noted differences are obviously less distinct. With the exception of the high 8-percent compounded annually price increases for public AAUP category IIB and IV institutions, price increases for all other institutional groups ranged from 6 to 7 percent compounded annually. The comparable rate of increase for the HEPI was 6.6 percent. Thus, with two exceptions, incorporation of two specialized price series—faculty salaries and fringe benefits—by institutional type and control group, results in an approximate \pm 0.5 percent maximum difference in annual price change compared to the HEPI for the FY 1971-76 period.

¹ Note the sizeable 12.5 percent inflation for public category IIB institutions for FY 1975-76. Contributing was a 17.5 percent hike in professor salaries.

TABLE A-1

Current fund educational and general expenditures price indexes, by institutional type and control, fiscal years 1971–76

	All		Pub	lic institu	tions	
Fiscal year	institu- tions (HEPI)	Category	Category IIA	Cătegory IIB	Category III	Category IV
1971	100.0	100.0	100.0	100.0	100.0	100.0
1972	. 105.6	105.9	105.5	107.3	105.6	105.3
1973	. 111.2	110.5	111.6	112.4	110.4	114.3
1974	119.1	118.4	120.4	119.8	119.2	121.5
1975	. 129.2	128.4	131.8	130.6	128.6	136.1
1976	137.8	137.4	140.6	146.9	138.1	148.0
	Priv	ate institu	itions	Church-	related ins	titutions
	Category	Category IIA	Category IIB	Category I	Category IIA	Category IIB
1971	100.0	100.0	100.0	100.0	100.0	1 0.0
1972	105.3	105.9	106.7	A 12 TO 1981 TO 12	105.3	105.3
1973	110.3	111.6	112.2	111.0	110.6	111.0
1974	117.3	117.0	119.4	117.2	117.1	117.5
43/ Ti						
1975	126.9	127.8	129.6	127.9	127.5	127.2

¹ Excludes expenditures for sponsored research.

Notes,—These specialized institutional type-control price indexes for currentfund educational and general expenditures are computed using the HEPI price series and weighting pattern presented in tables 1, 3, 5, 6, 7, and 8, with the exception that data from table A-2 is substituted for faculty salaries (item 1.1) and fringe benefits (item 3.0).

AAUP institutional type category descriptions:

- Category I—includes institutions which offer the doctorate degree and which conferred in the most recent 3 years an annual average of 15 or more earned doctorates covering a minimum of 3 nonrelated disciplines.
- Category IIA—includes institutions awarding degrees above the baccalaureate but not included in Category I.
- Category IIB—includes institutions awarding only the baccalaureate or equivalent degree.
- Category III—includes 2-year institutions with academic ranks.
- Category IV—includes institutions without academic ranks. (With the exception of a few liberal arts colleges, this category includes mostly 2-year institutions.)



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TABLE A-2

Faculty salaries and fringe benefits, amounts and indexes, by academic rank and by AAUP institutional type and control, fiscal years 1971–76

ALL INSTITUTIONS

	Profes	SSOTS	Associate p	rofessors	Assistant p	professors	Instru	ctors	Faculty total
Fiscal year	Amount	Index	Amount	Index	Amount	index	Amount	Index	index 1
				Salar					
1971	\$18,314	100.0	\$13,792	100.0	\$11,347	100.0	\$9,084	100.0	100.
1972	18,913	103.3	14,266	103.4	11,765	103.7	9,520	104.8	103.
1973	19,751	107.8	14,887	107.9	12,289	108.3	9,873	108.7	108.0
1974	20,798	113.6	15,641	113.4	12,872	113.4	10,344	113.9	113.
1975	21,870	119.4	16,495	119.6	13,578	119.7	11,005	121.1	119.
1976	23,233	126.9	17,449	126.5	14,336	126.3	11,607	127.8	126.
				Fringe Be	nefits				
1971	\$2,084	100.0	\$1,538	100.0	\$1,300	100.0	\$1,002	100.0	100.0
1972	2,314	111.0	1.703	110.7	1,440	110.8	1,149	114.7	111./
1973	2,486	119.3	1,884	122.5	1,601	123.2	1,263	126.0	122.0
1974	2,744	131.7	2,127	138.3	1,811	139.3	1,441	143.8	137.(
1975	3,006	144.2	2,329	151:4	1,957	150.5	1,519	151.6	148.8
1976.	3,343	160.4	2,576	167.5	2,151	165.5	1,690	168.7	164.

PUBLIC INSTITUTIONS

For AAUP category descriptions see table A-1

CATEGORY I

	Profes	Professors		rofessors	Assistant p	orofessors	Instructors		Faculty :-	
Fiscal year	Amount	Index	Amount	Index	Amount	Index	Amount	Index	total index	
The state of the s				Salar						
1971	\$19,150	100.0	\$14,350	100,0	\$11,760	100.0	\$8,970	100.0	100.0	
1972	19,820	103.5	14,870	103.6	12,190	103.7	9,430	105.1	103.7	
1973	20,470	106.9	15,290	106.6	12,580.	107.0	9,730	108.5	106.9	
1974	21,581	112.7	16,066	112.0	13,201	112.3	10,154	113.2	112,4	
1975	22,680	118.4	16,880	117.6	13,850	117.8	10,770	120.1	118.1	
1976	24,150	126.1	18,010	125.5	14,690	124.9	11,510	128.3	125.8	
				Fringe ber	refits					
1971	\$1,930	100.0	\$1,470	100,0	\$1,270	100.0	\$1,000	100.0	100.0	
1972	2,250	116.6	1,670	113.6	1,420	111.8	1,140	114.0	114.5	
1973	2,340	121.2	1,800	122.4	1,540	121.3	1,210	121.0	121.5	
1974	2,648	137.2	2,071	140.9	1,770	139.4	1,391	139.1	138.8	
1975	2,860	148.2	2,230	151.7	1,910	150.4	1,510	151.0	149.2	
1976	3,180	164.8	2,470	168.0	2,110	166,1	1,630	163.0	165.9	

PUBLIC INSTITUTIONS (Continued)

CATEGORY IIA

Fiscal year	Profes	Sors	Associate p	professors	Assistant p	rofessors	Instru	ctors	Faculty
	Amount	Index	Amount	Index	Amount	Index	Amount	Index	total index ^l
				Salar	V				
1971	\$17,420	100,0	\$13,830	100.0	\$11,440	100.0	\$9,220	100.0	100
1972,	17,850	102.5	14,140	102.2	11,800	103,1	9,540	103.5	10%
1973	18,980	109.0	15,000	108.5	12,470	109.0	10,130	109.9	108
1974	20,450	117.4	15,960	115.4	13,120	114.7	10,700	116.1	11
975	21,550	123.7	16,890	122.1	13,920	121.7	11,420	123.9	12
1976	22,500	129,2	17,680′	127.8	14,570	127.4	11,950	129.6	128
				Fringe bei	nefits				
971	\$1,680	100.0	\$1,370	100.0	\$1,230	100.0	\$970	100.0	10(
972	1,910	113.7	1,560	113.9	1,430	116.3	1.170	120.6	11!
.973	2,020	120.2	1,710	124.8	1,550	126.0	1,300	134.0	12
974	2,330	138.7	2,025	Note that the second of the second	1,800	The second of the second	1,530	the Maria de Charles to de 1999	A Part of the Real of
975	2,800	166.7	The same of the sa	J 10 3 3	2,020	Secretary 10	1.10	15 de 15	Arrest of their
976	A 40A	186.3	2,630	192.0	2,220	1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A	1,860	191.8	18(

CATEGORY IIB

	Profes	SOIS	Associate p	professors	Assistant p	professors	Instruc	ctors	Faculty :	
Fiscal year	Amount	Index	Amount	index	Amount	Index	Amount	Index	total index 1	
				Salary	y of the second					
1971	\$15,250	100.0	\$12,590	100,0	\$10,810	100.0	\$8,910	100.0	100.0	
1972	16,650	109.2	13,510	107.3	11,300	104.5	9,490	106.5	106.5	
1973.	17,000*	111.5	14,160	112.5	11,680	108.0	9,680	108.6	109,9	
1974.	. 17,360	113.8	14,430	114.6	12,120	112.1	10,180	114.3	113.5	
1975	18,260	119.7	15,310	121.6	12,890	119.2	10,750	120.7	120.2	
1976	21,460	140.7	17,340	137.7	14,350	132.7	11,740	131.8	135,4	
			e provincia de la provincia de	ringe bene	iits	A STATE OF THE STA	All Control of the Co		and a share	
1971	\$1,190	100.0	\$1,210	100.0	\$1,120	100.0	\$820	100.0	100.0	
1972	1,550	130.3	1,350	111.6	1,240	110.7	1,040	126.8	1177	
1973	1,700	142.9	1,490	123,1	1,522	135,9	1,140	139.0	134.7	
1974	2,030	170.6	1,830	151,2	1,640	146.4	1,100	134.1	150.2	
1975	2,120	178.2	1,990	164.5	1,720	153.6	1,410.	172.0	164.6	
1976	3,010	252.9	2,530	209.1	2,160	192.9	1,790	218.3	213.5	

^{*}Adjusted to correct for change in reporting institutions.

ERIC Provided by ENIC

PUBLIC INSTITUTIONS (Continued)

CATEGORY III

	Profes	SSOYS	Associate p	orofessors	Assistant p	rofessors	Instruc	tors	Faculty
Fiscal year	Amount	Index	Amount	Index	Amount	Index	Amount	Index	total inde): I
				Salar					and the state of the second of
1971	\$17,100	100.0	\$14,120	100.0	\$11,760	100.0	\$9,760	100.0	100.0
1972	18,060	105.6	14,570	103.2	12,350	105.0	10,200	104.5	104.6
1973	. 18,860	110.3	15,250	108.0	12,870	109.4	10,310	105.6	108.5
1974	19,519	114.1	16,078	113.9	13,672	117.4	10,878	111.5	114.8
1975	20,410	119.4	16,860	119.4	14,420	122.6	11,640	119.3	120.6
1976	22,280	130.3	17,840	126.3	15,180	129.1	12,390	126.9	128.2
				Fringe be	nefits				
1971.	\$2,240	100.0	\$1,750	100.0	\$1,590	100.0	\$1,270	100.0	100.0
1972	. 2,380	106.3	1,890	108.0	1,690	106.3	1,370	107.9	107.0
1973	2,720	121.4	2,180	124.6	1,990	125.2	1,490	117.3	112.9
1974	. 2,881	128.6	2,456	140.3	2,194	138.0	1,701	133.9	136.2
1975	3,030	135.3	2,520	144.0	2,260	142.1	1,680	132.3	139.6
1976	3,520	157.1	2,830	161.7	2,540	159.7	1,970	155.1	158.9

CATEGORY IV

			Sala	7		Frin	ge benefi	its
			No	rank, facult	y total	No ra	nk faculty	total -
	ris	cal year	Amo	unt	Index	Amou		ndex
	1971.	Marketti in da marketti in da sakata marketti in da sakata market		12,610	100.	- 14 m m M m M m M m M m M m m m m m m m m	900	100,0
	1972. 1973.			12,750 14,030	101. 111.	3	080 300	120.0 144.4
	1974. 1975.			14,510 15,660	115. 124.	2 1,	459 280	162.1 208.9
治疗院	1976.			17,130	135.	5	010	223.3





PRIVATE INDEPENDENT INSTITUTIONS

For AAUP category descriptions see table A-1

CATEGORY

		r dage of the second		OMILOU	Market and a second	The state of the s				
	Professi	Ors .	Associate pr	ofessors	Assistant pr	ofessors	Instruc	tors	Faculty – total	
Fiscal year	Amount	Index	Amount	Index	Amount	Index	Amount	index	index	
				Salar	Mary Mary 18 18 18 18 18 18 18 18 18 18 18 18 18	Park Park Sparing				
1971	\$21,080	100.0	\$14,640	100.0	\$11,840	100,0	\$9,290	100.0	100.0	
1972	21,850	103.7	15,320	104.6	12,380	104.6	9,800	105.5	104.2	
1973.	22,500	106.7	15,850	108.3	12,820	108.3	10,240	110.2	107.5	
1974	23,602	112.0	16,585	113.3	13,322	112,5	10,685	115.0	112.5	
1975	24,970	118.5	17,480	119.4	13,910	117.5	11,160	120.1	118.6	
1976	26,540	125.9	18,550	126.7	14,740	124,5	11,750	126.5	125.8	
				Fringe be	nefits				and the second s	
1971	\$3,250	100.0	\$2,130	100.0	\$1,690	100.0	\$1,120	100.0	100.0	
1972		105.5	2,300	108.0	1,790	105.9	1,180	105.4	106.1	
1973		114.8	Annual Control of the	118.8	1,940	114.8	1,380	123.2	116.0	
1973 1974				and the second second second	2,106			131.9	A commission of the committee	
	and the second second	131.1				1 1 2	1,480	132.1	75.7 Y 75. 10 Miles	
1975 1076			3.100	145.5			1,580	141.1	142.	

CATEGORY IIA

1971 \$1 1972 1 1973 1 1974 1	Imount	Index	Amount	sal, abstration	Assistant professors		Instructors		Faculty - total	
1972 1 1973 1 1974 1 1975 2		The willing		Index	Amount	Index	Amount	Index	index	
1972 1 1973 1 1974 1 1975 2	And the second			Salary	y		pro to the second			
1972 1 1973 1 1974 1 1975 2	7,120	100.0	\$13,390	100.0	\$11,040	100.0	\$9,070	100.0	100.0	
1973 1 1974 1 1975 2	7,940	104.8	14,160	105.8	11,650	105.5	9,600	105.8	105.4	
1974	8.680	109.1	14,730	110.0	12,200	110.5	10,030	110.6	109.9	
19752	18,805	109.8	14,910	111.4	12,430	112.6	10,325	113.8	111.5	
	20,390	119.1	16,010	119.6	13,150	119.1	10,910	120.3	119.3	
Marketta ka ka saka ke atau bana ka	21,010	122.7	16,700	124.7	Shipara	125.0	11,360	125.2	124,2	
				Fringe ber	nefits					
1971 \$	52,500	100.0	\$1,870	100.0	\$1,450	100.0	\$1,010	100.0	100.0	
	2,740	109.6	1,980	105.9	1,520	104.8	1,090	107.9	106.9	
	2,990	119.6	2,230	119.3	1,750	120.7	1,210	119.8	119.9	
handre Killy til store til	3,145	125.8	2,370	126.7	1,880	129.7	1,285	127.2	119.9 127.4	
	3,350	134.0	2,590	138.5	2,000	137.9	1,360	134.7	136.5	
	3,460	138.4	2,760	147.6	2,140	147.6	1,520	150.5	144.9	

See footnote at end of table.





PRIVATE INDEPENDENT INSTITUTIONS—Continued

CATEGORY IIB

Fiscal year	Profe	SSO7S	Associate	professors	Accictant				
	Amount	Index	Amount	Index	•	professors	Instru	ictors	Faculty
		e diamento. E del Meso	ni se sene in i Himosophi	Control of the second of the s	Amount	Index	Amount	Index	total index
				Salaı					
1971	\$15,700	100.0	\$12,130	100.0					
1972	16,810	107.1	12,890	100.0	\$10,270	100.0	\$8,790	100.0	100.0
1973	17,500	111.5		106.3	10,780	105.0	9,240	105.1	106.0
1974	18,260	116.3	13,330	109.9	11,220	109.3	9,640	109.7	110.2
1975	19,310	123.0	14,050	115.8	11,700	113.9	9,830	111.8	115.0
1976	20,430		14,720	121.4	12,330	120.1	10,620	120.8	121.5
	-0,100	130.1	15,570	128.4	13,020	126.8	10,900	124.0	121.3 128.1
				Fringe ber	nefits				
1971	\$2,100	100.0	\$1,610	100.0	61 000				
1972	2,400	114.3	1,800		\$1,250	100.0	\$910	100.0	100.0
1973	2,630	125.2	2,020	111.8	1,400	112.0	1,080	118.7	113.2
1974	2,910	138.6	2,190	125.5	1,600	128.0	1,110	122.0	125.9
1975	3,130	149.0	2,320	136.0	1,740	139.2	1,270	139.6	138.2
1976	3,470	165.2		144.1	1,830	146.4	1,410	154.9	147.3
			2,560	159.0	2,050	164.0	1,370	150,5	162.0

162.0

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CHURCH-RELATED INSTITUTIONS

For AAUP category descriptions see table A-1 CATEGORY I

Fiscal year	Profes	sors	Associate p	rofessors	Assistant p	orofessors	Instru	ctors	Faculty-
	Amount	Index	Amount	Index	Amount	Index	Amount	Index	total index!
				Salar	Y				
1971	\$18,100	100.0	\$13,930	100.0	\$11,390	100.0	\$9,030	100.0	100.
1972	. 18,440	101.9	14,310	102.7	11,770	103.3	9,500	105.2	102;
1973	19,220	106.2	14,990	107.6	12,270	107.7	9,970	110.4	107.
1974	19,920	110.1	15,438	110.8	12,589	110.5	10.196	112.9	110
1975	20,910	115.5	16,270	116.8	13,370	117.4	10.900	120.7	116.
1976	<u>√22,220</u>	122.8	17,230	123.7	14,150	124.2	11,600	128.5	123;
				Fringe be	nefits				
1971	\$2,030	100.0	\$1,600	100.0	\$1,230	100.0	\$910	100.0	100.
1972	2,090	103.0	1,700	106.3	1,320	107.3	1,000	109.9	105.
1973	2,480	122.2	2,000	125.0	1,590	129.3	1,170	128.6	125.
1974	2,578	127.0	2,120	132.5	1,717	139.6	1,299	142.7	133.
1975	2,830	139.4	2,380	148.8	1,960	159,3	1,560	171.4	149.
1976	2,970	146.3	2,470	154.4	2,000	162.6	1.570	172.5	155

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See footnote at end of table.



CHURCH-RELATED INSTITUTIONS—Continued

CATEGORY IIA

	Profes	SOFS	Associate p	rofessors	Assistant p	irofessors	Instru	ctors	Faculty :	
Fiscal year	Amount	Index	Amount	Index	Amount	Index	Amount	Index	total index	
				Salar	y					
1971	\$15,430	100.0	\$12,410	100.0	\$10,390	100.0	\$8,520	100.0	100.0	
1972	16,120	104.5	12,910	104.0	10,870	104.6	8,950	105.0	104.	
1973	16,690	108.2	13,360	107.7	11,280	108.6	9,220	108.2	108.	
1974	17,230	111.7	13,800	111.2	11,570	111.4	9,630	113.0	111.	
1975	18,280	118.5	14,790	119.2	12,410	119.4	10,260	120.4	119.	
1976	19,490	126.3	15,650	126.1	13,130	126.4	10,690	125.5	126.	
				Fringe ber	nefits					
1971	\$2,050	100.0	\$1,630	100.0	\$1,260	100.0	\$ 940	100.0	100.	
1972	2,110	102.9	1,680	103.1	1,340	106.3	1,000	106.4	104	
1973	2,310	112.7	1,880	115.3	1,500	119.0	1,100	117.0	115	
1974	2,560	124.9	2,070	127.0	1,650	131.0	1,180	125.5	127	
1975	2,720	132.7	2,030	124.5	1,800	142.9	1,270	135.1	133	
1976	2,840	138.5	2,320	142.3	1,880	149.2	1,320	140.4	143	

CATEGORY IIB

Fiscal year	Professors		Associate professors		Assistant professors		Instructors		Faculty
	Amount	Index	Amount	Index	Amount	Index	Amount	Index	total Index !
				Salary	y				
1971	\$14,280	100.0	\$11,520	100.0	\$9,890	100.0	\$8,360	100.0	100,
1972	14,820	103.8	11,940	103.6	10,220	103.3	8,640	103.3	103.
1973	15,440	108.1	12,390	107.6	10,560	106.8	8,920	106.7	107.
1974	15,960	111.8	12,700	110.2	10,890	110.1	9,270	110.9	110.
1975	16,760	117.4	13,390	116.2	11,430	115.6	9,720	116.3	116.
1976	17,640	123.5	14,160	122.9	12,100	122.3	10,180	121.8	122.
				Fringe ben	nefits				
1071	¢1 040	100.0	e arte e						
1971 1972	\$1,840	100.0	\$1,410	100.0	\$1,130	100.0	\$ 790	100.0	100.0
	1,980	107.6	1,530	108.5	1,230	108.8	900	113.9	108.
1973	2,280	123.9	1,770	125.5	1,410	124.8	1,010	127.8	125.0
1974	2,510	136.4	1,930	136.9	1,540	136.3	1,075	136.1	136.
1975 1976	2,640	143.5	2,050	145.4	1,620	143.4	1,150	145.6	144.2
1970	2,880	156.5	2,200	156.0	1,720	152.2	1,200	151.9	154.4

The faculty total index for salaries and fringe benefits is an average of indexes for each academic rank weighted according to the proportion of total faculty salaries paid each rank as shown in table A-3.

Source: Summer issues of the AAUP Bulletin (Maryse Eymoneire Survey Director).

TABLE A-3

Estimated distribution of total faculty salaries paid each academic rank, by institutional type and control, fiscal year 1974

AAUP	Percen	Number of institutions				
institutional category ²	Professor	Associate professor	Assistant professor	Instructor	- submitting data	
All institutions ³ . Public:	34.5	25.2	30.2	10.1	1,479	
1	44	27	24	5	106	
IIA	31	28	32	9	242	
IIB	20	25	37	18	85	
III.,.,	17	25	39	19	185	
Private independent:						
· 1	54	22	20	4	48	
IIA	32	28	31	9	76	
IIB	. 33	26	33	8	98	
Church-related:						
1	37	27	29	7	15	
IIA	29	29	33	9	100	
IIB	28	27	35	10	281	

Per tribution of total salaries paid was estimated by multiplying distribution of full-time faculty members by corresponding salary amounts for each rank and comparing with total for all ranks.

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² For AAUP category descriptions see table A-1.

³ Data for all institutions is for fiscal year 1972.

Source: 1972 and 1974 Summer issues of the AAUP Bulletin.