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ABSTRACT

This report presents the Program 30 allocations by the New York City Board of Education to the thirty-two community school districts for fiscal year 1974-1975. The Program 30 funds are subdivided by the New York City Board of Education into several modules. Each module is a grouping of functional activities for which separate allocation formulas are used. This report focuses on modules 1, 2, 3, and 4B. These modules are: (1) community school boards and district administration, (2) instructional services, (3) continuing education and extended use of school buildings, and (4) funds for capital note items. The funds in these modules are distributed to the thirty-two community school districts by formulae, and in fiscal year 1974-1975 the money allocated in these modules represented nearly two-thirds of a district's total allocation. (Author/AM)

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THE 1974-1975 ALLOCATION FORMULAE POLICY PAPER NO.2 JUNE 27, 1974

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PREFACE

This report takes the place of Business and Administration Circular No. I and presents the Program 30 allocations to the thirty-two community school districts for fiscal, year 1974-1975.

The formulae for allocating funds for instructional services (Module 2) have been substantially changed from previous years. In order to explain the rationale behind the new Module 2 allocation formulae, every effort has been made to simplify sometimes rather complicated analyses by the generous use of flow charts, tables, and graphs.

The authors wish to thank Dr. Catherine Lyon, Richard Vigilante,
Marshall Goldman, and Antoine Ector for their assistance in meeting many
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Bernard R. Gifford Ronald K. H. Choy



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1. DEFINING EQUAL EDUCATIONAL OPPORTUNITY: A BIT OF PHILOSOPHY

In developing "objective formulae" for allocating funds to the 32 community school districts, the New York City Board of Education must follow federal, state, and city laws that prohibit discrimination against any student, regardless of sex, race, ethnicity, or place of residency. In short, the "objective formulae" adopted by the Board to allocate monies to the 32 community school districts must be consistent with the idea of "equal educational opportunity for all youth."

However, "equal educational opportunity" can be defined in a variety of ways. There are three measures that can be used to define "equal educational opportunity:" dollars, resources, and outcomes. We will explore the allocation strategies that appear to be consistent with each definition. This exploration will help us to lay a foundation for a discussion of the merits and shortcomings of the "objective formulae" used to allocate resources to the 32 community school districts.

I. INPUT EQUALIZATION

The allocation formulae that give equal dollars per pupil follow an <u>input</u> equalization strategy. There is no conceptual problem in defining what is meant by an equal input of dollars. All that is needed to verify equality is proper accounting. During recent Consultative Council meetings, a number of districts have indicated a preference for this distribution strategy. They argue that an equal dollar input strategy would result in simplified allocation formulae and would also minimize the influence of non-objective criteria in establishing allocation formulae. A portion of Module I is distributed on the basis of equal dollars per pupil.



However, an equal dollar per pupil strategy (weighted for various grade levels) would be consistent with "equal educational opportunity" only if equal dollars could purchase equal services in every community school district in the city. This, as we shall find out, is not the case.

2. RESOURCE EQUALIZATION

An allocation strategy that attempts to compensate for differences in the purchasing power of the dollar among the 32 districts is a <u>resource</u> equalization strategy. The term "resources" means the value of all human and non-human inputs into education — services of teachers, administrators, and support staff; materials and supplies; types of facilities; and so forth.

In order to insure "equal educational opportunity" each district would have to be given enough money to purchase the same mix or "package" of resources per pupil.

The problem is that equal dollars do not buy equal resources everywhere.

For a variety of reasons, (e.g., differences in teacher salaries and in required pupil-teacher ratios) districts vary both in ease of access to resources and in the prices they must pay for resources of given quality and quantity. Since input costs are variable, districts cannot be said to be providing equal programs or equal educational opportunity when their levels of spending are the same.

 A resource equalization strategy requires that dollars be allocated unequally to compensate for interdistrict variations in cost.



This means that cost levels in each district must be measured in such a way that the necessary adjustments in purchasing power per dollar can be computed.

3. OUTCOME EQUALIZATION

Allocation formulae based on an educational <u>outcome equalization strategy</u> is a relatively new idea. It can be considered a by-product of studies, such as the Coleman Report, showing the importance of non-school factors, including racial discrimination and socioeconomic status, in determining educational results. From these studies it is clear that even if resources are distributed with perfect equality and all districts are equally well managed there would still be wide disparities in pupil achievement because of differences in their pupil populations.

 To bring achievement in all districts up to an agreed-upon standard (equal educational outcome), it would be necessary to allocate resources to compensate for differences in the difficulty of educating diverse pupil populations.

Stated differently, it would be necessary to allocate resources in proportion to "educational need," where "need" refers to the amount of resources per pupil, relative to the amount required in an "average" district, to produce a given level of educational achievement. Both relative need and relative cost would have to be considered in distributing funds to districts. The special needs (Module 2) allocation formulae are based on relative educational need. The allocation formulae that distribute funds for basic instructional services (Module 2) include relative cost considerations for Title I and non-Title I schools.



II. UNIT OF APPROPRIATION 30

Funds earmarked in the Mayor's expense budget for Community School Districts are placed in Unit of Appropriation 30. These "Program 30" funds are then subdivided by the New York City Board of Education into several modules. Each module is a grouping of functional activities for which separate allocation formulae are utilized. The modules are:

- I. Community School Boards and District Administration
- 2. Instructional Services
- Continuing Education and Extended Use of School Buildings
- 4. New York State Textbook Law Funds and Funds for Capital Note Items
- 5. Special Purpose Funds and Special Purpose Reserve
- 6. Fringe Benefits
- 7. Furniture and Equipment Procurement

These modules are described in more detail in Table II-I.

In this report we will focus on Modules 1, 2, 3, and 4B. The funds in these modules are distributed to the thirty-two community school districts by formulae, and in fiscal year 1974-1975 the \$795,240,987 in these modules represent nearly two-thirds of a district's total allocation. Program 30 appropriations by module for fiscal year 1974-1975 are tabulated in Table 11-2. District allocations from Modules 1, 2, 3, and 4B, are listed in Table 11-3.



Table II-I

PROGRAM 30 MODULES

MODULE	FUNCTION AND COMPONENTS
	COMMUNITY SCHOOL BOARDS AND DISTRICT ADMINISTRATION- Includes salaries of Executive Assistant to Community School Board, District Superintendent, District Supervising Atten- dance Officer, District Business Officer, Supervisor of Guidance, et al.
2	INSTRUCTIONAL SERVICES - Includes salaries of Elementary and Junior High School Teachers, Principals, Guidance Counsellors, School Secretaries, School Aides, et al. Also includes replacement for occasional absences and medical leaves, postage and communications services, promotional and salary differentials, and intra-district awards.
3	CONTINUING EDUCATION AND EXTENDED USE OF SCHOOL BUILDINGS - Includes personnel costs of running community and recreation centers, day camps, summer swimming pools, after school centers, etc.
4A	NEW YORK STATE TEXTBOOK LAW FUNDS - Funds in the amount of \$10.00 per capita for pupils in Grades K-9 are provided by State.
4B	FUNDS FOR CAPITAL NOTE ITEMS - Includes funds for furniture, supplies, equipment, textbooks, and library books financed by the issuance of capital notes by the City of New York.
5A	SPECIAL PURPOSE FUNDS - Includes funds for bilingual education, school lunch, repair and maintenance, borough-wide music, city-wide awards, learning cooperative, rents, collective bargaining increases, leaves in lieu of sabbaticals, and replacements for sabbatical and terminal leaves.
5B	SPECIAL PURPOSE RESERVE - Includes funds for register increases, salaries of properly excessed personnel, preparation period coverage for special education classes, overhead costs for Northeast Bronx Educational Park, one-time other than personal service costs for new schools, replacement of instructional equipment losses due to theft and vandalism.
6	FRINGE BENEFITS - Includes funds earmarked for social security, health, welfare, pension, and other benefits for district personnel.
7	FURNITURE AND EQUIPMENT PROCUREMENT - Includes funds, for the procurement of furniture and equipment.



Table 11-2

UNIT OF APPROPRIATION 30 BY MODULE

FISCAL YEAR 1974-1975

MODULE	FUNCTION	ALLOCATION	PERCENT OF TOTAL
:1	Community School Boards and District Administration	\$ 18,109,259	1.51 %
2	Instructional Services	745,729,984	62.07
3A	Continuing Education	16,393,954	1.37
38	Extended Use of School Buildings	6,731,856	0.56
. 4 A	New York State Textbook Law*	7,636,500	0.64
4 B	Funds for Capital Note Items	7,140,934	0.59
5A	Special Purpose Funds	121,645,090	10.12
5B	Special Purpose Reserve	17,000,000	1.42
6	Fringe Benefits**	259,931,593	21.63
. 7	Furniture and Equipment	1,135,000	0.09
	TOTAL NET APPROPRIATION	\$1,201,454,170	100.00 %

^{*}Subject to change depending upon K-9 registration as of September 30, 1974.

**These funds are not allocated by formula but are retained by Central
Board and placed in trust for intended purposes.

Table | 11-3

DISTRICT ALLOCATION BY FORMULAE

FISCAL YEAR 1974-1975

DISTRICT	MODULE I ALLOCATION	MODULE 2 ALLOCATION	MODULE 3 ALLOCATION	MODULE 4B ALLOCATION	TOTAL FORMULAE ALLOCATION
1	\$ 512,883	\$ 16,275,623	\$ 456,673	\$ 147,491	\$ 17,392,670
2	545,533	21,336,809	859,598	195,057	22,936,997
3	528,798	18,118,001	599,850	170,483	19,417,132
4	516,328	16,745,151	472,567	150,672	17,884,718
5	536,151	19,848,445	558,908	185,934	21,129,438
6	528,911	17,804,876	533,504	167,496	19,034,787
7	575,398	26,437,514	765,495	248,773	28,027,180
8	602,253	30,705,231	892,622	293,990	32,494,096
9	630,048	32,587,665	979,507	330,891	34,528,111
10	593,323	28,099,993	875,111	271,426	29,839,853
11	576,665	24,574,213	822,801	232,256	26,205,935
12	594,358	28,977,237	815,112	273,032	30,659,739
13	551,220	20,779,405	679,048	206,633	22,216,306
14	574,030	26,275,770	831,825	247,595	27,929,220
15	568,640	24,770,182	814,899	236,156	26,389,877
16	526,299	15,690,063	516,646	163,363	16,896,371
17	575,999	24,184,052	702,145	248,895	25,711,091
18	540,863	19,172,981	525,419	184,949	20,424,212
19	593,609	29,025,446	838,380	278,659	30,736,094
20	576,243	23,804,035	852,553	228,696	25,461,527
21	575,112	23,854,778	744,096	227,582	25,401,568
22	578,408	23,621,676	737,450	223,449	25,160,983
23	535,175	18,988,817	538,808	182,406	20,245,206
24	567,265	21,514,245	737,771	209,975	23,029,256
25	572,126	22,723,984	703,597	214,318	24,214,025
26	530,547	16,829,092	510,013	155,750	18,025,402
27	593,043	26,751,334	843,414	253,593	28,441,384
28	570,234	23,981,541	711,174	223,618	25,486,567
29	576,564	24,956,451	740,571	236,809	26,510,395
30	560,614	21,527,573	729,714	206,294	23,024,195
31	656,015	35,235,383	1,138,109	343,864	37,373,371
32	546,604	20,532,418	598,430	200,829	21,878,281
TOTAL	\$18,109,259	\$745,729,984	\$23,125,810	\$7,140,934	\$794.105.987



III. MODULE I: COMMUNITY SCHOOL BOARDS

AND DISTRICT ADMINISTRATION

Module I funds are designated for Community School Boards and District Administration to support administrative and supervisory activities. The objective formulae allocate Module I funds to the districts in two streams:

- An equal amount to each district that reflects the "fixed cost" nature of some overhead activities.
 - For example, all districts have a Community School Board and a District Superintendent.
- An amount proportional to the "size" of a district that reflects the "variable cost" nature of some overhead activities.
 - For example, extra office help to handle administrative workloads.

I. DIVISION OF MODULE I

The first step is to separate the total Module I amount, \$18,109,259 in fiscal year 1974-1975, into its fixed and variable parts. (Figure III-I)

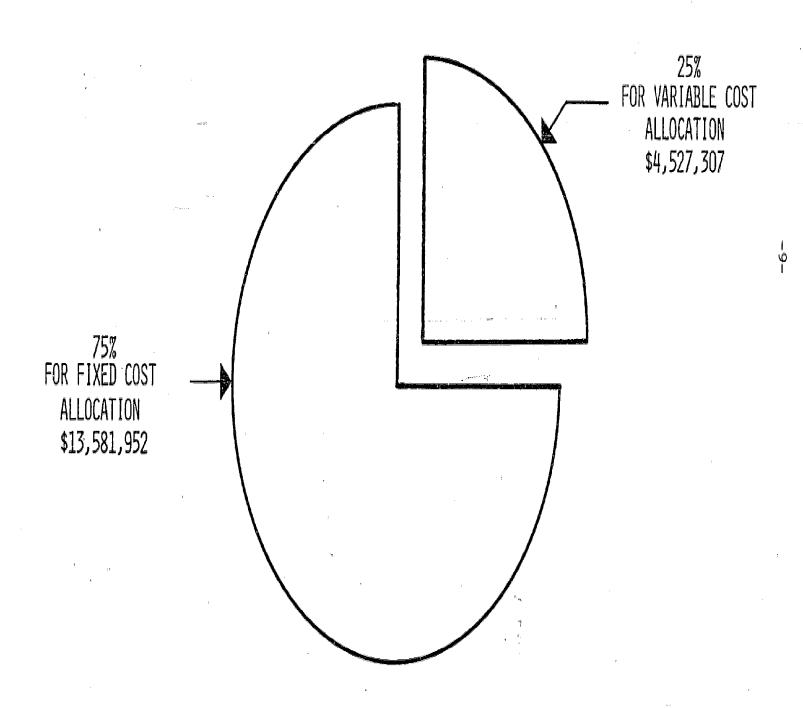
- 75% or \$13,581,952 of Module 1 is for fixed cost allocation
- The remaining \$4,527,307 of Module I is for variable cost allocation

2. ALLOCATION FOR FIXED COST

The amount that each district receives as its equal share, fixed cost allocation is computed as follows:



MODULE 1 COMMUNITY SCHOOL BOARDS AND DISTRICT ADMINISTRATION FISCAL YEAR 1974—1975 \$18,109,259



MODULE I MODULE I TOTAL
FIXED COST FOR FIXED X MODULE I
PER DISTRICT COST AMOUNT
ALLOCATION TOTAL NUMBER OF COMMUNITY
SCHOOL DISTRICTS

For fiscal year 1974-1975, each district receives \$424,436:

MODULE I FIXED COST PER DISTRICT ALLOCATION $\frac{0.75 \times \$18,109,259}{32 \text{ DISTRICTS}}$

= \$13,581,952 32 DISTRICTS

\$424,436 PER DISTRICT

3. ALLOCATION FOR VARIABLE COST

The "size" of a district is measured by the number of students shown on the October 31, 1973, adjusted registers (Appendix A). A per capita amount is computed, and a district receives that amount for each student.

MODULE I TOTAL MODULE I

VARIABLE COST MODULE I — AMOUNT FOR

PER STUDENT AMOUNT FIXED COST

AMOUNT TOTAL CITY-WIDE

ADJUSTED REGISTER

For fiscal year 1974-1975, the per capita amount is about \$5.95 per student:

MODULE I VARIABLE COST PER STUDENT AMOUNT \$18,109,259 - \$13,581,952 760,989 STUDENTS

\$4,527,307 760,989 STUDENTS

\$5.9492411 PER STUDENT

Table III-I

COMMUNITY SCHOOLS BOARDS

AND DISTRICT ADMINISTRATION ALLOCATION

FISCAL YEAR 1974-1975

DISTRICT	TOTAL	FIXED	VARIABLE	TOTAL
	REGISTER	ALLOCATION	ALLOCATION	ALLOCATION
l	4,867	\$ 424,436	\$ 88,447	\$ 512,883
2	20,355	424,436	121,097	545,533
3	7,542	424,436	104,362	528,798
4	5,446	424,436	9],892	516,328
5	8,778	424,436	111,715	536,151
6 7 8 9	17,561 25,375 29,889 34,561 28,388	424,436 424,436 424,436 424,436 424,436	104,475 150,962 177,817 205,612 168,887	528,911 575, 3 98 602,253 630,048 593, 3 23
11	25,588	424,436	152,229	576,665
12	28,562	424,436	169,922	594,358
13	21,311	424,436	126,784	551,220
14	25,145	424,436	149,594	574,030
15	24,239	424,436	144,204	568,640
16	17,122	424,436	101,863	526,299
17	25,476	424,436	151,563	575,999
18	19,570	424,436	116,427	540,863
19	28,436	424,436	169,173	593,609
20	25,517	424,436	151,807	576,243
21	25,327	424,436	150,676	575,112
22	25,881	424,436	153,972	578,408
23	18,614	424,436	110,739	5 3 5,175
24	24,008	424,436	142,829	567,265
25	24,825	424,436	147,690	572,126
26 27 28 29 30 31	17,836 28,341 24,507 25,571 22,890 38,926 20,535	424,436 424,436 424,436 424,436 424,436 424,436 424,436	106,111 168,607 145,798 152,128 136,178 231,579 122,168	530,547 593,043 570,234 576,564 560,614 656,015 546,604
TOTAL	760, 989	\$13,581,952	\$4,527,307	\$18,109,259



The variable cost allocation each district receives is proportional to its adjusted register:

DISTRICT d MODULE I DISTRICT d

MODULE I VARIABLE COST TOTAL

VARIABLE COST = PER STUDENT X ADJUSTED

ALLOCATION AMOUNT REGISTER

 For example, let us take District 10, which has 28,588 students. Its variable cost allocation is \$168,887:

DISTRICT 10

MODULE I = \$5.9492411 × 28,388

VARIABLE COST

ALLOCATION

= \$168,887

4. DISTRICT ALLOCATION FOR MODULE I

The total Module I allocation each district receives is the sum of its fixed and variable cost allocations:

DISTRICT d

DISTRICT d

FIXED COST

MODULE I

MODULE I

PER DISTRICT + VARIABLE COST

ALLOCATION

ALLOCATION

To continue with our example, District 10 receives \$593,323

DISTRICT 10 MODULE I = \$424,436 + \$168,887 ALLOCATION

= \$593,323

In Table III-I we have tabulated Module I allocations to the 32 districts.



IV. IMPACT OF WORKLOAD FACTORS ON TEACHER RESOURCE ALLOCATION

Essential to the development of allocation formulae is the establishment of workload factors for classroom teachers in kindergarten, elementary schools, and junior high schools. These workload factors impose conditions on resource allocation decisionmaking. The objective formulae we develop to distribute monies placed in Module 2 for instructional services identify the resources required to meet the following classroom workload factors:

- Class size limits
- Teaching, preparation, and administrative period assignments.

Given the adjusted register of a district, these workload factors can be translated into requirements for a <u>base number of teachers</u>. These funds for basic classroom workloads are only the starting point for determining each district's resource requirements. Each district also needs additional funds for other required and supporting services to implement effectively its educational projects.

The calculations that identify the <u>base allocation</u> for classroom workload factors treat each district as if it were one, large, "ideal" school. For this first step, we do not allow for characteristics of individual schools; including breakage. We need a starting point that is solid and unambiguous. Introducing complex adjustments at this stage would obscure the base allocation.

But in developing the <u>supporting allocation</u> formulae, we recognize and incorporate



the important interdistrict differences in resource requirements.

I. CLASS SIZE LIMITS

The size of regular classes must be below the following limits: * (Figure IV-1)

- Kindergarten: 25 pupils per class
- Elementary school: 32 pupils per class
- Junior high school: 30 pupils per class

The <u>base number of classes</u> of full-time equivalent students is given by the following relationship:

DISTRICT d BASE NUMBER OF CLASSES DISTRICT d NUMBER OF FTE PUPILS IN REGISTER MAXIMUM CLASS SIZE

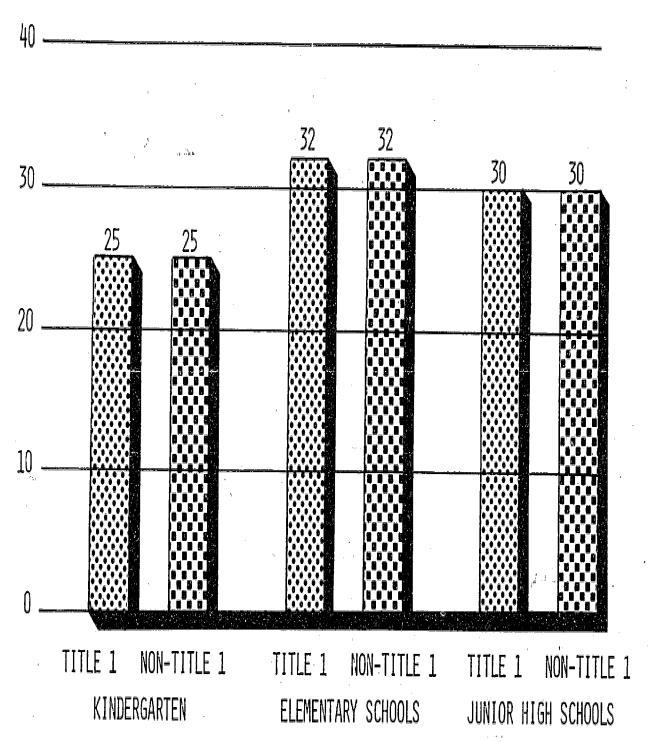
*An acceptable reason for exceeding the maximum class size limitations listed above may be any of the following:

- There is no space available to permit scheduling of any additional class or classes in order to reduce class size.
- Conformity to the class size objective would result in placing additional classes on short time schedule.
- Conformity to the class size objective would result in the organization of half-classes.
- A class larger than the maximum is necessary or desirable in order to provide for specialized or experimental instruction, or for IGC instruction, or for placement of pupils in a subject class of which there is only one on a grade.
- A junior high school that is a non-Title I school.

In the event that it is necessary to assign a teacher to a class that exceeds the maximum size listed above the principal shall stipulate the reason in writing to the teacher and to the Chancellor. Non-Title I junior high schools may have class sizes up to thirty-three pupils without permission.



MAXIMUM CLASS SIZE LIMITS



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23

24

For example, District 21 has a base of 784 classes.
 The calculations are shown below.

DISTRICT 21 BASE NUMBER OF CLASSES

LEVEL	TITLE I STATUS	ADJUSTED REGISTER	FTE REGISTER*	MAXIMUM CLASS SIZE	BASE NUMBER OF CLASSES
Kindergarten	Title	337	169	25	7
Kindergarten	Non-Title	1,834	917	25	37
Elementary	Title I	2,913	2,913	32	91
Elementary	Non-Title I	12,262	12,262	32	383
Junior High	Title I	1,856	1,856	30 [°]	62
Junior High	Non-Title I	6,125	6,125	30	204
TOTAL		25,327	.24,242	-	784

The adjusted registers for all districts are developed in Appendix A. The base number of classes for all of the districts is shown in Table [V-].

2. TEACHERS PER CLASS

Since at least one teacher must be assigned to each class, the number of teachers required cannot be less than the base number of classes. We will show that more than one teacher is required per class.



^{*}This calculation is based on full-time equivalent (FTE) students some the adjusted register is converted from number of students to number of FTE students. This conversion affects only the kindergarten register since these students are required to be in school for one-half day. The adjustment is made by dividing the kindergarten register in half. For example, District 21's 2,171 kindergarten students are equivalent to 1,086 FTE students.

Table IV-I

BASE NUMBER OF CLASSES

FISCAL YEAR 1974-1975

	FTE KINDE	ERGARTEN	FTE EL	.EMENTARY	FTE JUN	IOR HIGH	
DISTRICT	TITLE I	NON- TITLE I	TITLE I	NON- TITLE I	TITLE I	NON- TITLE I	TOTAL
1 2 3 4 5	22 22 30 23 28	0 11 0 0	292 243 364 329 37 I	0 132 0 0 0	148 153 145 127 183	0 69 0 0	462 630 539 479 582
6 7 8 9 10	32 41 47 62 34	5 0 8 0 20	305 517 467 759 356	50 0 57 0 173	227 274 239 241	0 0 72 0 52	537 785 925 1,060 876
	10 53 35 44 49	36 0 0 0 2	115 627 453 489 454	332 0 0 0 11	41 195 168 243 227	259 0 0 0 0	793 875 656 776 743
16 17 18 19 20	26 43 9 40 10	0 0 18 4 45	395 519 112 533 89	0 0 221 37 368	105 223 101 266 83	0 0 152 0 188	526 785 613 880 783
21 22 23 24 25	7 4 29 8 0	37 56 0 48 54	91 39 382 59 0	383 442 0 368 457	62 0 164 0	204 249 0 251 250	784 790 575 734 761
26 27 28 29 30 31 32	0 26 18 30 21 13	36 42 27 24 31 78 0	0 258 187 266 184 , 124 426	319 297 273 224 269 579 0	0 82 73 151 108 77 177	195 158 177 88 85 318 0	550 863 755 783 698 1,189 635
TOTAL	848	582	9,805	4,992	4,428	2,767	23,422



The teacher's workday is separated into teaching, preparation, and administrative periods.* The number of periods allowed varies by level and by Title I or non-Title I status. When a teacher is taking a preparation or administrative period, another teacher must be assigned to cover the class.

- "Teaching periods" are those periods in which the teacher is actively involved with the pupil in the act of teaching, either as an individual or as a member of a teaching team, and has participated in the planning of the instruction to be conducted.
- "Preparation periods" are those periods during which the teacher is not assigned to a regularly programmed responsibility. Teachers are expected to utilize their professional preparation time in such manner as to enable them to further their professional work for the purpose of their greater classroom effectiveness.
- "Administrative periods" are those periods during which the teacher is programmed for regular activity other than teaching.

For kindergarten and elementary school teachers, the definition of preparation periods is significantly different:

Preparation periods shall be used for unassigned professional work. Teachers are expected to utilize their professional preparation time in such manner as to enable them to further their professional work for the purpose of their greater classroom effectiveness. Preparation periods shall be used for professional, jobrelated work which may include but is not limited to preparation for classes, preparation of teaching material, presentation of or attendance at demonstration lessons, participation in teacher training, and conferences with the principal, with other teachers, with guidance counselors or with parents.

The definition allows kindergarter and elementary teachers to be assigned to present "demonstration lessons," which in effect would convert preparation periods into teaching periods.



^{*}Teaching, preparation and administrative periods for junior high school teachers are defined as follows:

Each class actually requires more than one teacher, and the number of teachers determined from class size limits must be adjusted upward to insure adequate class coverage. The calculations for kindergarten and elementary schools and for junior high schools are developed step by step in the following sections.

(I) Kindergarten and Elementary Schools

All teachers* in kindergarten and elementary schools require preparation periods. (Figure IV-2)

- Title I schools allow all teachers 5 preparation periods per week.
- Non-Title | schools allow all teachers 2 preparation periods per week.

These circumstances call for additional teachers who are usually "cluster teachers," to cover classes, and they can be assigned 20 teaching periods per week.** The proportion of the required additional cluster teacher is computed from the following expression:



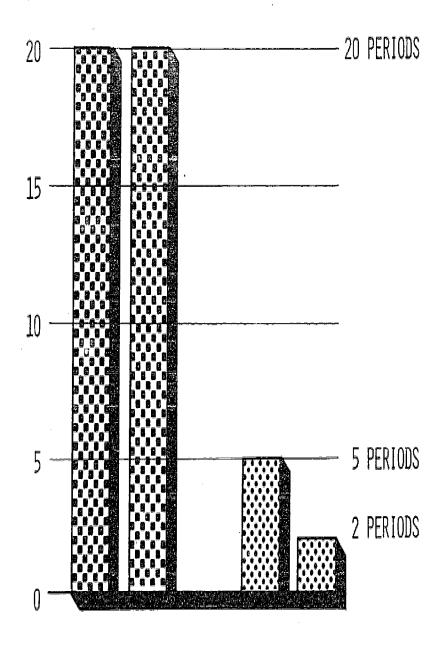
^{*}Teachers in kindergarten have the same teaching schedule as teachers in elementary schools.

^{**}The term "cluster teacher" refers to teaching personnel in elementary schools who are specially assigned to the teaching of classes in music, art, science, health education or the fundamental skills and who are not assigned to a homeroom class.

The cluster teacher's program can include more than twenty teaching periods per week.

The cluster teacher shall have the same number of preparation periods and duty assignments during the year as all other teachers in the school.

TEACHING AND PREPARATION PERIODS PER WEEK KINDERGARTEN AND ELEMENTARY SCHOOLS



TITLE 1 NON-TITLE 1
TEACHING PERIODS

TITLE 1 NON-TITLE 1 PREPARATION PERIODS



ADDITIONAL TEACHER PER CLASS NUMBER OF
PREPARATION PERIODS PER WEEK
NUMBER OF
TEACHING PERIODS PER WEEK

- For Title I schools, the additional proportion of a teacher per class is equal to 5/20 = 0.25.
- For non-Title ! schools, the additional proportion of a teacher per class is equal to 2/20 = 0.10.

The total number of teachers required per class is equal to one regular teacher plus an additional proportion of a cluster teacher (Figure IV-3).

- For Title I schools, the total number of teachers required per class is equal to I + 0.25 = 1.25.
- For non-Title I schools, the total number of teachers required per class is equal to I + 0.10 = 1.10.

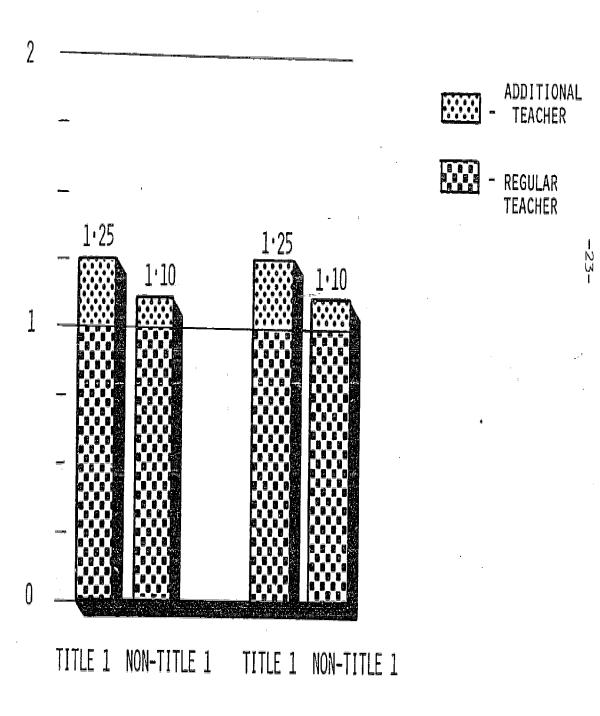
(2) Junior High Schools

Students in junior high schools attend classes for 7 periods per day, or 35 periods per week. All teachers in junior high schools have their week of 35 periods divided into teaching periods, preparation periods, and administrative periods (Figure IV-4).

 Title ! schools allow teachers to have 22 teaching, 8 preparation, and 5 administrative periods per week.



TOTAL NUMBER OF TEACHERS PER CLASS KINDERGARTEN AND ELEMENTARY SCHOOLS

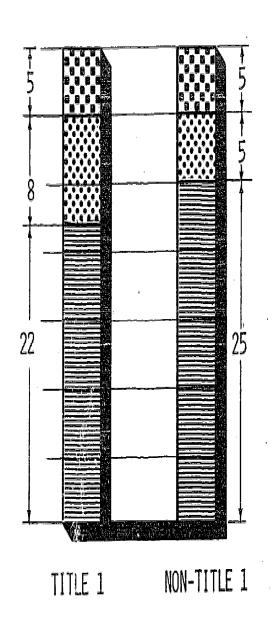


FRIC

KINDERGARTEN

ELEMENTARY

TEACHING, PREPARATION AND ADMINISTRATIVE PERIODS PER WEEK JUNIOR HIGH SCHOOLS









31

35



- Non-Title I schools allow teachers to have 25 tea hing, 5 preparation, and 5 administrative periods per week.

The proportion of an additional teacher needed to cover a class while the regular teacher is engaged in preparation or administrative activities is computed from the following expression:

		NUMBER OF	NUMBER OF
•		PREPARATION	ADMINISTRATIVE
ADDITIONAL		PERIODS + PER WEEK	PERIODS PER WEEK
TEACHER PER CLASS	=	NUMBER OF TEACHING	PERIODS PER WEEK

- For Title I schools, the proportion of an additional teacher per class is equal to (8+5)/22 = 13/22 = 0.59 approximately.
- For non-Title I schools, the proportion of an additional teacher per class is equal to (5+5)/25 = 10/25 = 0.40

The total number of teachers required per class is equal to one regular teacher plus a porportion of an additional preparation teacher (Figure IV-5).

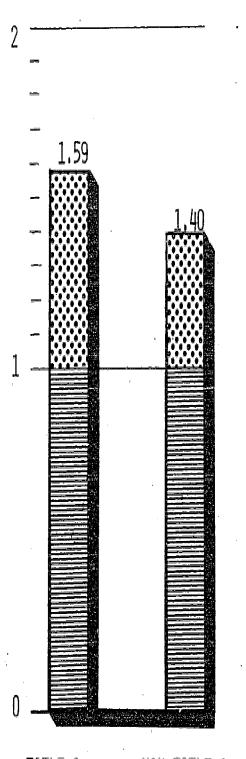
- For Title I schools, the total number of teachers required per class is equal to I + 0.59 = 1.59.
- For non-Title I schools, the total number of teachers required per class is equal to I + 0.40 = 1.40.

3. PUPIL-TEACHER RATIOS

These class size limits and the teaching, preparation, and administrative



TOTAL NUMBER OF TEACHERS PER CLASS JUNIOR HIGH SCHOOLS







38

TITLE 1

NON-TITLE 1

37

periods can be translated into school or district wide maximum <u>pupil-teacher</u>

ratios. These ratios provide a common basis for comparing interdistrict
resource requirements.

The allowances for teaching, preparation, and administrative periods increase the required number of teachers so that the maximum school or district wide pupil-teacher ratios are lowered below the class size limits. To put it another way, the maximum school or district wide pupil-teacher ratios are less than the class size limits because more than one teacher per class is required. The extent of the reduction is determined by the required number of teachers per class:

By performing the calculations for each type of school, we obtain the following pupil-teacher ratios (Figure IV-6):

MAXIMUM PUPIL-TEACHER RATIO

LEVEL	TITLE I STATUS	CLASS SIZE	TEACHERS PER CLASS	PUPIL- TEACHER RATIO
Kindergarten	Title	50	1.25	40.00
Kindergarten	Non-Title	50	1.10	45.45*
Ele me ntar y	Title	32	1.25	25.60 _*
Elementary	Non-Title	32		29.09 [*]
Junior High	Title	30	1.59 [*]	18.86*
Junior High	Non-Title	30	1.40	21.43*

^{*}Approximate value rounded to two decimal places.



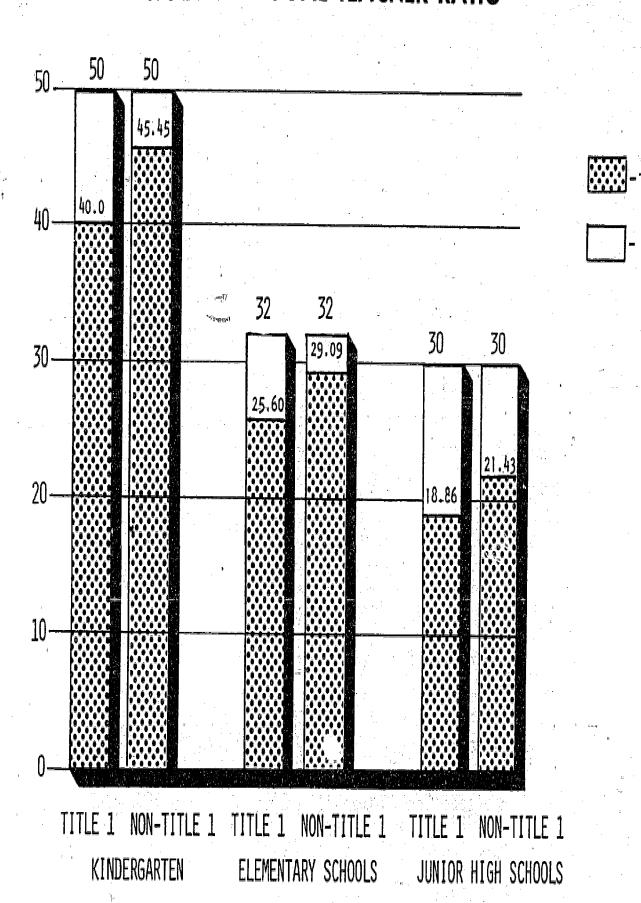
MAXIMUM PUPIL TEACHER RATIO

PUPIL FEACHER

RATIO

CLASS SIZE LIMIT

41



40

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A district that has both Title I and non-Title I schools at some level would have a maximum pupil-teacher ratio that is a weighted average of the pupil-teacher ratios for Title I and non-Title I schools.

- For example, a district that has 25% of its 10,000 elementary students in Title I schools would have a maximum pupil-teacher ratio of 28.13 computed as follows:

WEIGHTED AVERAGE MAXIMUM PUPIL-TEACHER RATIO

10,000 PUPILS
98 TEACHERS + 258 TEACHERS

= 28.13 PUPILS PER TEACHER

Figure IV-7 illustrates how maximum pupil-teacher ratios depend on the percent of students in Title I schools. This graph combines everything we have developed in our analysis into one simple statement. At a glance, we can determine the basic classroom teacher requirements for any district. The only additional information we need is the percent of students in Title I schools of the particular level.

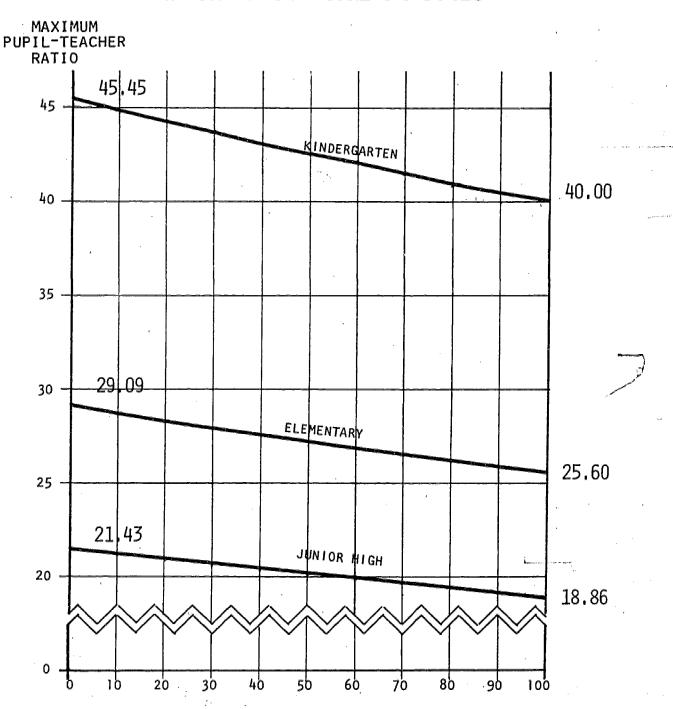
- For example, a district that has 40% of its junior high school students in Title I schools is obligated to have a pupil-teacher ratio no higher than 20.3.

Table IV-2 lists the maximum pupil-teacher ratios for each district.



Figure IV-7

MAXIMUM PUPIL—TEACHER RATIOS AND PERCENT OF TITLE 1 PUPILS



PERCENT TITLE 1 PUPILS



Table IV-2

MAXIMUM PUPIL-TEACHER RATIOS

FISCAL YEAR 1974-1975

DISTRICT	KINDERGARTEN	ELEMENTARY	JUNIOR HIGH
1 2 3 4 5	40.0 41.7 40.0 40.0	2 5.6 26.7 25.6 25.6 25.6	18.9 19.6 18.9 18.9
6 7 8 9 10	40.7 40.0 40.7 40.0 41.9	26.0 25.6 25.9 25.6 26.6	18.9 18.9 19.3 18.9 19.3
 2 3 4 15	44.1 40.0 40.0 .0 40.2	28.1 25.6 25.6 25.6 25.7	21.0 18.9 18.9 18.9
16 17 18 19 20	40.0 40.0 43.5 40.5 44.3	25.6 25.6 27.8 25.8 28.3	18.9 18.9 20.3 18.9 20.6
21 22 23 24 25	44.5 45.1 40.0 44.6 45.4	28.3 28.8 25.6 28.6 29.1	20.8 21.4 18.9 21.4 21.4
26 27 28 29 30 31	45.4 43.2 43.1 42.2 43.0 44.6 40.0	29.1 27.4 2 7.6 27.1 27.6 28.4 25.6	21.4 20.5 20.6 19.7 19.9 20.9 18.9
TOTAL	42.1	26.7	19.8

4. INDUSTRIAL ARTS AND HOME ECONOMICS TEACHER REQUIREMENTS

This section is a digression. It shows that the junior high school pupil-teacher ratios developed from workload factors make the Module 2 allocation conservative.

Classes for specific junior high school subjects have class size limits and teachers per class requirements that are different from regular class-room subjects. The teacher resource requirements are correspondingly different, but the differences largely cancel each other.

JUNIOR HIGH SCHOOL TEACHER RESOURCE REQUIREMENTS

	TITLE I			NON-TITLE I			
SUBJECT	CLASS SIZE	TEACHING PERIODS FOR TEACHERS	CLASS PERIODS FOR PUPILS	CLASS SIZE	TEACHING PERIODS FOR TEACHERS	CLASS PERIODS FOR PUPILS	
Regular Classes	30	22	27	30	25	27	
Home Economics and Industrial Arts	22	23	4	24	26	4	
Physical Education and Music	50	22	4	50	25	4	



The number of teachers per student is computed from the following expression:

TEACHERS
PER PUPIL
PER WEEK FOR PUPILS
CLASS NUMBER OF TEACHING
SIZE X PERIODS PER WEEK
LIMIT FOR TEACHERS

TEACHERS PER PUPIL

	74	
SUBJECT	TITLE JHS	NTI JHS
Regular Classes	$\frac{27}{30 \times 22}$	$\frac{27}{30 \times 25}$
Home Economics and Industrial Arts	4 22 × 23	4 24 × 26
Physical Education and Music	4 50 × 22 ~	4 50 × 2 5

The overall average pupil-teacher ratio is:

AVERAGE PUP I L	=							
TEACHER RATIO		TEACHERS PER PUPIL FOR REGULAR CLASSES	+	TEACHERS PER PUPIL FOR HOME ECO. AND IND. ARTS.	+	TEACHERS PER PUPIL FOR PHYS. EDUC. AND MUSIC		

- 19.07 pupils per teacher in Title I junior high schools
- 21.92 pupils per teacher in non-Title I junior high schools



When developing the workload weights in Appendix B, we used a slightly different values for the junior high school pupi' teacher ratio:

- 18.86 for Title I

$$18.86 = \frac{1}{35}$$

$$30 \times 22$$

- 21.43 for non-Title !

$$21.43 = \frac{1}{35}$$
 30×25

The difference <u>overstates</u> the required teacher resources for junior high school. In addition, Title I junior high school teachers without homeroom classes may be assigned to more than 22 teaching periods per week, *

Both of these factors make the Module 2 allocation conservative.



[&]quot;Appeal to the Superintendent of Schools of Audrey Sutton et al, Teachers at J125X," March 13, 1970.

⁻ There is no established city-wide policy in regard to the programs of non-homeroom teachers in special service junior high schools.

5. THE WORKLOAD WEIGHTED REGISTER

Pupil-teacher ratios are indexes of teacher resource requirements: one teacher for a given number of students. We can use the maximum pupil-teacher ratios derived from classroom workload factors to develop workload weights that reflect the relative teacher resource requirements among the levels and between Title I and non-Title I status. These weights are applied to the adjusted register of each district to generate a district's workload weighted register. The workload weighted register is used for allocating Module 2 and Module 4B funds.

The weights are simply ratios of the maximum pupil-teacher ratios with elementary non-Title I ratio as the base or the "standard":

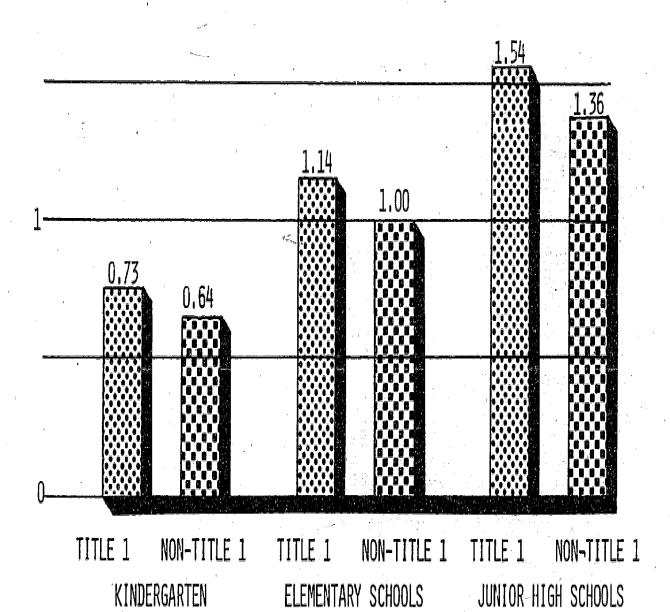
By performing the calculations for each type of school, we obtain the following workload weights (Figure IV-8):

COMPUTING THE WORKLOAD WEIGHTS

LEVEL	TITLE I STATUS	"STANDARD" PUPIL-TEACHER RATIO	PUPIL- TEACHER RATIO	WORKLOAD WEIGHT
Kindergarten	Title	29.09	40.00	0.73
Kindergarten	Non-Title	29.09	45.45	0.64
Elementary	Title	29.09	25.60	1.14
El e mentary	Non-Title	29.09	29.09	
Junior High	Title	29.09	18.86	1.54
Junior High	Non-Title	29.09	21.43	1.36



WORKLOAD WEIGHTS



50

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The weights can be interpreted as the required number of teachers per 29.09 students to meet the workload factors for class size and teachers per class, where the 29.09 is the "standard" pupil-teacher ratio.

- For example, 100 teachers are required for every 2,909 students in non-Title 1 elementary schools
 - Only 54 meachers are required for every 2,909 students in non-Title I kindergarten
 - But 136 teachers are required for every 2,909 students in non-Title I junior high schools.

The table below shown now the workload weighted register is developed.

A district's total workload register is the combined sum of the six workload weighted registers for each level and Title I status.

COMPUTING THE WORKLOAD WEIGHTED REGISTER FOR DISTRICT 21

LEVEL	TITLE I STATUS	ADJUSTED REGISTER	WORKLOAD WEIGHT	WORKLOAD WEIGHTED REGISTER
Kindergarten	Title I	337	0.73	246
Kindergarten	Non-Title I	1,834	0.64	1,174
Elementary	Title	2,913	1.14	3,321
Elementary	Non-Title	12,262		12,262
Junior High	Title	1,856	1.54	2,858
Junior High	Non-Title	6,125	1.36	8,330
TOTAL		25,327	-	28,191
IOTAL	0.3	25,327	-	

The city-wide total workload weighted register is the sum of all the districts' workload weighted registers (Table IV-3).



Table IV-3
WORKLOAD WEIGHTED REGISTER

FISCAL YEAR 1974-1975

	KINDE	RGARTEN	ELEME	NTARY	JUNIO	RHIGH	
DISTRICT	TITLE I	NON- TITLE I	TITLE I	NON- TITLE I	TITLE I	NON- TITLE I	TOTAL
I 2 3 4 5	805 819 1,110 827 1,026	0 360 0 0	10,634 8,869 13,291 11,985 13,533	0 4,231 0 0	6,831 7,062 6,717 5,852 8,473	0 2,821 0 0	18,270 24,162 21,118 18,664 23,032
6 7 8 9 10	1,168 1,487 1,699 2,278 1,227	172 0 266 0 651	11,115 18,843 17,022 27,670 12,989	1,592 0 1,832 0 5,522	6,701 10,486 12,660 11,040 11,125	0 0 2,938 0 2,108	20,748 30,816 36,417 40,988 33,622
 12 13 4 15	365 1,928 1,281 1,619 1,789	1,153 0 0 0 60	4,203 22,873 16,532 17,832 16,553	10,628 0 0 0 0 364	1,874 9,020 7,783 11,219 10,487	10,547 0 0 0 0	28,770 33,821 25,596 30,670 29,253
16 17 18 19 20	964 1,583 ~ 317 1,458 375	0 0 573 141 1,447	14,426 18,939 4,073 19,442 3,243	0 0 7,080 1,180 11,787	4,846 10,309 4,680 12,297 3,824	0 0 6,187 0 7,653	20,236 30,831 22,910 34,518 28,329
21 22 23 24 25	246 139 1,062 300 0	1,174 1,802 0 1,537 1,737	3,321 1,428 13,941 2,142	12,262 14,155 0 11,777 14,610	2,858 0 7,592 0 0	8,330 10,155 0 10,254 10,201	28,191 27,679 22,595 26,010 26,548
26 27 28 29 30 31	0 950 671 1,113 775 488 1,166	1,149 1,343 872 753 979 2,486	0 9,404 6,812 9,687 6,713 4,524 15,543	10,200 9,518 8,747 7,182 8,601 18,529 0	0 3,767 3,374 6,995 5,007 3,579 8,168	7,944 6,431 7,224 3,604 3,479 12,989 0	19,293 31,413 27,700 29,334 25,554 42,595 24,877
TOTAL	31,035	18,655	357,582	159,797	204,626	112,865	884,560



V. MODULE 2: INSTRUCTIONAL SERVICES

I. IMPROVING RESOURCE ALLOCATION

The allocation formulae for instructional services are the most powerful instrument the New York City Board of Education has for providing equal educational opportunity for all youth. With minor revisions, the current allocation formulae have been used to distribute Program 30 monies to the decentralized community school districts since fiscal year 1971-1972. These formulae have, however, come under increasing attack by a number of community school board members and district superintendents on the grounds that the formulae:

- Are inequitable
- Do not allow a district to meet its contractual obligations
- Are discriminatory against "rich" districts
- Are discriminatory against "poor" districts.

In a previous document, "The 1973-1974 Allocation Formulae: An Analysis," we reviewed the formulae used in fiscal year 1973-1974 to distribute Program 30 monies. In this report we respond indirectly to some past criticisms of the allocation formulae.

In developing new allocation formulae for fiscal year 1974-1975, we have been guided by the following criteria:

- The formulae should provide equal educational opportunity for all youth by:



- Recognizing that workload factors mandate different mixes or "packages" of resources per pupil to insure equal classroom teacher time for all students.
- Recognizing that dollars must be allocated to compensate for interdistrict variations in cost.
- Recognizing that the diverse pupil populations require different levels of resources.
- The formulae should support the educational goals and policies of the Board of Education by:
 - Providing the central and local boards and administration with information on the costs and consequences of allocation decisions and obligations.
 - Providing parents, the public, and city officials with timely information on the budgetary process.

The new formulae for allocating tax levy funds for Instructional Services are thought to be consistent with the above criteria and objectives. Additionally, the new formulae provide a simple instrument for identifying the actual funding a district requires to support its basic classroom workload requirements.

- We must stress that basic classroom workload requirements are not synonymous with minimum educational requirements.
- Workload factors are merely the starting point for determining a district's allocation.
- Funds for other required and supporting services are also essential to provide for individual district's educational projects.

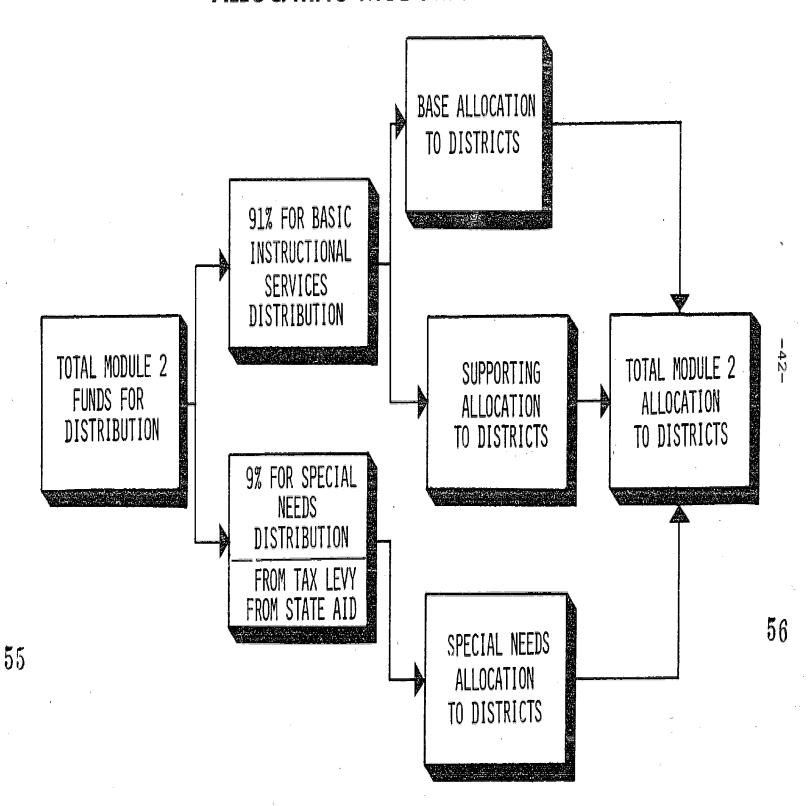
The new formulae recognize this distinction between workload foactors and educational requirements and allocate Instructional Services funds for both.

The new procedure for allocating Instructional Services monies is illustrated in Figure V-I. The following list summarizes the changes.



Figure V-I

ALLOCATING MODULE 2 MONIES





INSTRUCTIONAL SERVICES MONIES BE DIVIDED INTO THREE PARTS:

- Part A for special needs distribution
- Part B for basic classroom obligations
- Part C for other required and supporting services.

EVERY COMMUNITY SCHOOL DISTRICT BE ALLOCATED SUFFICIENT INSTRUCTIONAL SERVICES FUNDS TO MEET BASIC CLASSROOM WORKLOADS

- The new formulae for allocating Module 2 funds identify the base number of teachers for each district. The following workload factors are taken into account when calculating the base number of teachers
 - Class size limits
 - Teaching, preparation, and administrative period assignments.
- The new formulae clearly identify the base allocation for each district to meet basic classroom workloads
- The new formulae incorporate an adjustment for interdistrict teacher salary differences.

THE REMAINING FUNDS FOR BASIC INSTRUCTIONAL SERVICES BE ALLOCATED TO DISTRICTS FOR OTHER REQUIRED AND SUPPORTING SERVICES

 After identifying funds to meet basic classroom workload requirements, remaining Instructional Services funds are distributed to meet community school districts' other required and supporting services



- This supporting allocation to districts is made in proportion to weighted registers where the weights are derived from the workload factors
- Other required and supporting services include:
 - Supervisory personnel, including principals, assistant principals, and teachers in charge
 - Additional instructional personnel
 - Librarians
 - Attendance teachers
 - Guidance counselors
 - Substitute service
 - Laboratory specialists
 - School secretaries
 - Hourly employees
 - Salary changes occurring within the next fiscal year
 - Breakage for grade enrollment in a school
 - Other than personal service (OTPS)
 - Other charges

THE LEVEL OF NEEDS SPENDING BE MAINTAINED

- In fiscal year 1973-1974, a total of \$62,267,347 for distribution to community school districts on the basis of education needs were generated from two sources:
 - * \$34,154,051 or 5% of \$683,081,029 from Module 2 tax levy
 - \$28,113,296 from State Urban Aid, categorical funds for special needs students
 - A total of \$62,267,347 or approximately 9% of \$711,194,325, the sum of Module 2 and State Urban Aid funds



- In fiscal year 1974-1975, 9% of Module 2 funds or \$67,115,699 is set aside for special needs distribution
 - \$47,700,000 is from state aid
 - \$19,415,699 is from tax levy

SPECIAL NEEDS FUNDS

SOURCE	FY 1973-1974	FY 197 4- 1975
State Aid	\$ 28,113,296	\$ 47,700,000
Tax Levy	\$ 34,154,051	\$ 19,415,699
Total for Special Needs (9% of Adjusted Module 2)	\$ 62,267,347	\$ 67,115,699
Module 2 Tax Levy	\$683,081,029	\$698,029,984
State Urban Education	\$ 28,113,296	
State Special Needs Aid		\$ 47,700,000
Adjusted Module 2	\$711,194,325	\$745,729,984



2. DIVISION OF MODULE 2

The first step in allocating Module 2 funds is to divide the fotal amount into two parts. Figure V-2 shows the division.

(I) Special Needs

A given percent of instructional monies is allotted for special need. These funds are distributed to promote an educational outcome equalization strategy.

MODULE 2		PERCENT OF		t tary
FUNDS FOR	= .	MODULE 2	Y	TOTAL
SPECIAL NEEDS	 .	FUNDS FOR	^	MODULE 2
DISTRIBUTION		SPECIAL NEEDS		AMOUNT

In fiscal year 1974-1975, 9% or \$67,115,699
 of Module 2 funds is set aside for special needs.

(2) Basic Instructional Services

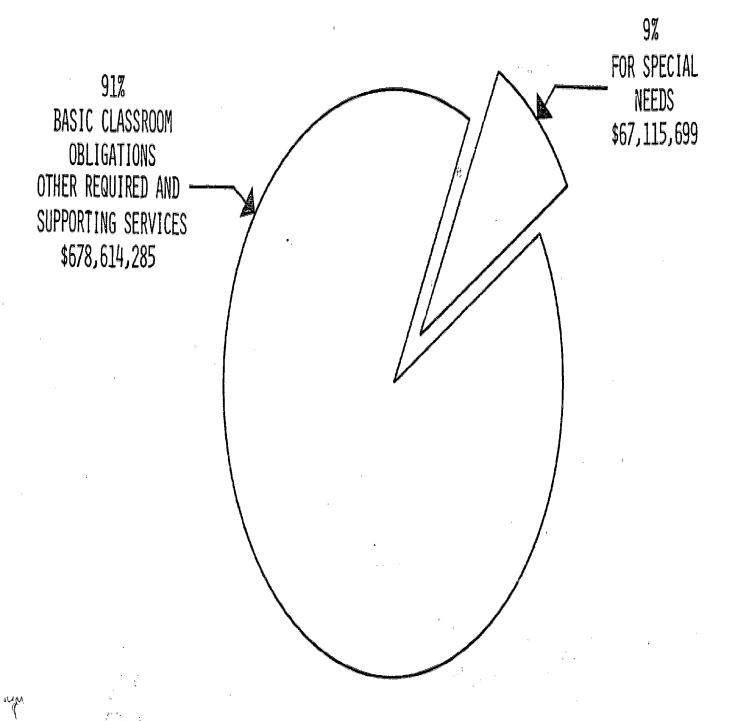
The remainder of the instructional monies is distributed for basic instructional services. The allocation formulae promote a resource equalization strategy.

MODULE 2				MODULE 2
FUNDS FOR		TOTAL		FUNDS FOR
BASIC	=	MODULE 2	desidines.	SPECIAL NEEDS
DISTRIBUTION		AMOUNT		DISTRIBUTION

 In fiscal year 1974-1975, \$678,614,285 of Module 2 funds are distributed for basic instructional services.



INSTRUCTIONAL SERVICES (PROGRAM 30 MODULE 2) FISCAL YEAR 1974—1975 \$745,729,984



MODULE 2 FUNDS FOR BASIC DISTRIBUTION

\$745,729,984 - \$67,115,699

\$678,614,285

In the following section, we develop objective formulae for a <u>base</u> <u>allocation</u> to each community school district. This base allocation is a starting point for determining a district's basic instructional services allocation. The base allocation clearly identifies funds to meet workload factors for classroom teachers.

- The base allocation by itself is not sufficient to meet educational goals and standards
- It is only a clear, solid, starting base

Additional funds for other required and supporting services are essential to provide adequately for individual district educational projects. After developing the base allocation, we develop objective formulae for a supporting allocation to each community school district. Finally, each district receives a special needs allocation.

3. THE BASE ALLOCATION

in Chapter IV, we analyzed the teacher resource obligations implied by the workload factors. For each district, we determined:

- The base number of classes
- The number of teachers per class
- The maximum pupil-teacher ratios
- The workload weighted register (Table V-I)

These obligations are building blocks for a district's base allocation. The computation procedure is illustrated in Figure V-3.



COMPUTING THE BASE ALLOCATION

STEP 1

DISTRICT d WORKLOAD WEIGHTED REGISTER

"STANDARD" PUPIL
TEACHER RATIO

DISTRICT a BASE NUMBER OF TEACHERS

E.G., DIST. 10

33,622

....-

29.09

1,156

≡

STEP 2

DISTRICT d BASE NUMBER OF TEACHERS

X

DISTRICT d AVERAGE TEACHER SALARY DISTRICT d BASE ALLOCATION

E.G., DIST. 10 1,156

X

\$15,111.32850

\$17,468,696

STEP 3

52 d=1

DISTRICT d BASE ALLOCATION TOTAL CITY-WIDE BASE

ALLOCATION

\$467,922,519

(I) Base Number of Teachers

We can determine the number of teachers for a district by dividing the adjusted register of each level by its weighted average maximum pupil-teacher ratio, which we developed in Chapter IV, and then adding together the teachers for each of the three levels to arrive at the district total number of teachers. A computation short cut is available to us in the workload weighted register. Recall that the workload weights are the required number of teachers per 29.09 students to meet the workload factors for class size and teachers per class, where the 29.09 is the "standard" pupil-teacher ratio. Dividing a district's workload weighted register by the "standard" pupil-teacher ratio gives us the base number of classroom teachers required to meet the workload factors.

DISTRICT d		DISTRICT d		"STANDARD"
BASE		WORKLOAD		PUPIL-TEACHER
NUMBER OF	=	WEIGHTED	•	RATIO
TEACHERS		REGISTER		

To continue with our earlier example of District 10, a base of 1,156 teachers is required for the district

DISTRICT 17

BASE NUMBER 33,622 STUDENTS 29.09 PUPILS
OF TEACHERS (WORKLOAD WEIGHTED) PER TEACHER

= 1,156 TEACHERS

Calculations for base teacher requirements for all the districts are shown in Table V-I.



Table V-I
BASE NUMBER OF CLASSROOM TEACHERS

FISCAL YEAR !974-1975

	KINDE	RGARTEN	ELEMEI	NTARY	JUNIOF	RHIGH	
DISTRICT	TITLE I	NON- TITLE I	TITLE I	NON- TITLE I	TITLE I	NON- TITLE I	TOTAL
l 2 3 4 5	28 28 38 29 35	0 12 0 0	366 305 457 412 465	0 146 0 0	235 243 231 201 292	0 97 0 0	. 629 831 726 642 792
6 7 8 9 10	40 51 59 79 42	6 0 9 0 23	382 648 585 951 446	55 0 63 - 190	231 361 435 380 382	0 0 101 0 73	714 1,060 1,252 1,410
	13 66 44 56 62	40 0 0 0 2	144 787 568 613 569	365 0 0 0 13	64 310 268 386 360	363 0 0 0	989 1,163 880 1,055 1,006
16 17 18 19 20	33 54 11 50 13	0 0 20 5 50	496 651 140 668 111	0 0 243 41 405	167 355 161 423 132	0 0 213 0 263	696 1,060 788 1,187 974
21 22 23 24 25	9 5 37 10 0	40 62 0 53 60	114 49 479 74 0	422 487 0 405 502	98 0 261 0 0	287 349 0 353 351	970 952 777 895 913
26 27 28 29 30 31	0 33 23 38 27 17 40	40 46 30 26 34 86	0 323 234 333 231 156 535	351 327 301 247 296 637 0	0 130 116 241 172 123 281	273 221 249 124 119 446 0	664 1,080 953 1,009 879 1,465 856
TOTAL	1,070	644	12,292	5,496	7,039	3,882	30,423

(2) Base Aliocations

A <u>base allocation</u> is identified for each district to cover its base teacher requirement at its average teacher salary:

		DISTRICT d	•	DISTRICT d
DISTRICT d		BASE		AVERAGE
BASE	=	NUMBER OF	Χ	TEACHER
ALLOCATION	ı	TEACHERS		SALARY

- The base allocation for fiscal year 1974-1975 uses the average teacher salary calculated from the June 1974 detailed position status report.*
- For our example, District 10 receives \$17,468,696 for its base allocation.

DISTRICT 10
BASE = 1,156 TEACHERS X \$15,111.32850
ALLOCATION

⁼ \$17,468,696

Table V-2 lists the allocation each district must receive to meet its basic classroom workload for teachers without the salary changes that will occur within the next fiscal year. These salary changes are funded out of the supporting allocation, which is developed in the next section. The use of the June 1974 average teacher salaries gives effect to the most current variation between community school districts, thereby incorporating an adjustment for teacher salary differences.

^{*}The position status report is generated from the Board of Education R-740 teacher payroll file data, which is used for producing the actual payroll. Appendix B shows the average salary calculations.

Table V-2
BASE ALLOCATION FOR CLASSROOM WORKLOAD OBLIGATIONS

FISCAL YEAR 1974-1975

DISTRICT	BASE NUMBER C TEACHERS		BASE ALLOCATION
1 2 3 4 5	629 831 726 642 792	\$ 15,743.97500 16,279.79930 15,279.6964 15,864.1297 15,482.46242	3 13,528,513 9 11,093,060 4 10,184,771
6 7 8 9 10	714 1,060 1,252 1,410 1,156	5, 74.5 270 4,969.67760 5, 87.89280 3,9 .58892 5, .32850	15,867,858 19,015,242 19,615,340
 2 3 4 5	989 1,163 880 1,055 1,006	16,112.6005 15,197.1411 14,372.5622 15,215.83690 15,203.63590	17,674,275 12,647,855 16,052,708
16 17 18 19 20	696 1,060 788 1,187 974	13,773.90848 14,025.28902 15,412.45318 14,986.37114 15,496.04998	2 14,866,806 B 12,145,013 H 17,788,823
21 22 23 24 25	970 952 777 895 913	15,846.74807 16,528.05400 14,869.61459 15,235.26660 16,681.66353	15,734,707 11,553,691 13,635,564
26 27 28 29 30 31 32	664 1,080 953 1,009 879 1,465 856	17,062.11039 16,030.04604 16,253.86844 15,949.40529 15,680.63257 15,912.72085 14,273.61785	17,312,450 15,489,937 16,092,950 13,783,276 23,312,136
TOTAL	30,423	-	\$467,922,519



The total city-wide base allocation is the sum of districts' base allocations.

- For fiscal year 1974-1975, \$467,923,519 is identified for base allocations.

4. THE SUPPORTING ALLOCATION

In this section we develop objective formulae for the <u>supporting allocation</u>. This allocation "supports" the base allocation by providing a district with funds for services in addition to and in support of basic classroom workload obligations.

The supporting allocation is made up of two parts:

- The first part is an extension of the base allocation so that the effect of workload factors and interdistrict teacher salary differences are both included
- The second part is based on only workload factors.

A <u>supporting percent allocation</u> is computed by adjusting the base allocation upward by 25% to allow for the following items:*

- Teachers in charge, librarians, attendance teachers, breakage teachers
- Occasional teacher absences (substitute services)
- Salary changes occurring during fiscal year 1974-1975 for teaching personnel





See Appendix D.

The remaining Instructional Services funds are then allocated on a per capita basis using workload weighted registers. This supporting per capita allocation is for other required and supporting services such as:

- Supervisory personnel, including principals, assistant principals
- School secretaries, hourly employees, guidance counselors, laboratory specialists, substitute service
- Salary changes occurring during fiscal year 1974-1975 for non teaching personnel
- Other than personal service (OTPS)
- Other charges

In order to explain the structure of the new allocation formulae, we start with the number of students, using workload factors we translate students into teacher requirements, and using salaries we convert teacher requirements into dollars. The following distinctions must be kept in mind:

- The allocation formulae is a method for distributing dollars
- The allocation formulae is not a method for distributing positions
- The allocation formulae is not a set of guidelines for staffing schools.



(I) The Supporting Percent Allocation

The computation steps for the supporting percent allocation are illustrated in Figure -V-4. The first step is to adjust upward each district's base allocation.

For example, District 10 receives \$4,367,174
 for its supporting percent allocation (Table V-3)

The total city-wide supporting percent allocation is the sum of all the districts' supporting percent allocations:

TOTAL CITY-WIDE SUPPORTING PERCENT ALLOCATION
$$=$$
 $\sum_{d=1}^{32}$ DISTRICT d SUPPORTING PERCENT ALLOCATION

 For fiscal year 1974-1975, \$116,980,635 goes for supporting percent allocations

(2) The Supporting Per Capita Allocation

The last part of a district's allocation for basic instructional services from Program 30 Module 2 is the supporting per capita allocation. The funds remaining in Module 2 after the base and supporting percent allocations have been identified are allocated on a per capita basis



COMPUTING THE SUPPORTING PERCENT ALLOCATION

STEP 1

E.G., DISTRICT 10 DISTRICT a BASE ALLOCATION \$17,468,696

0.25

X

0.25

DISTRICT 4
SUPPORTING PERCENT
ALLOCATION

\$4,367,174

=

A PROMETER

STEP 2

DISTRICT d
SUPPORTING PERCENT
ALLOCATION

TOTAL CITY-WIDE SUPPORTING PERCENT ALLOCATION

\$116,980,635

Table V-3

SUPPORTING PERCENT ALLOCATIONS

FISCAL YEAR 1974-1975

		SUPPORTING
DISTRICT	BASE ALLOCATION	PERCENT ALLOCATION
1	\$ 9,902,960	\$ 2,475,740
2	13,528,513	3,382,128
3	11,093,060	2,773,265
4	10,184,771	2,546,193
5	12,262,110	3,065,528
6	10,834,602	2,708,651
7	15,867,858	3,966,965
8	19,015,242	4,753,811
9	19,615,340	4,903,835
10	17,468,696	4,367,174
11	15,935,362	3,983,841
12	17,674,275	4,418,569
13	12,647,855	3,161,964
14	16,052,708	4,013,177
15	15,294,858	3,823,715
16	9,586,640	2,396,660
17	14,866,806	3,716,702
18	12,145,013	3,036,253
19	17,788,823	4,447,206
20	15,093,153	3,773,288
21	15,371,346	3,842,837
22	15,734,707	3,933,677
23	11,553,691	2,888,423
24	13,635,564	3,408,891
25	15,230,35 9	3,807,590
26	11,329,241	2,832,310
27	17,312,450	4,328,113
28	15,489,937	3,872,484
29	16,092,950	4,023,238
30	13,783,276	3,445,819
31	23,312,136	5,828,034
32	12,218,217	3,054,554
TOTAL	\$467,922,519	\$116,980,635

in proportion to workload weighted registers. (Figure V-5)

MODULE 2 FUNDS FOR SUPPORTING PER CAPITA

ALLOCATION

MODULE 2 FUNDS FOR BASIC DISTRIBUTION TOTAL
CITY-WIDE
BASE
ALLOCATION

TOTAL CITY-WIDE SUPPORTING PERCENT ALLOCATION

- For fiscal year 1974-1975, \$93,711,131 is available for supporting per capita allocation

MODULE 2 FUNDS FOR SUPPORTING PER CAPITA

\$678,614,285* - \$467,922,519 - \$116,980,635

PER CAPITA

\$93,711,131

The steps for computing the supporting per capita allocation are Illustrated in Figure V-6. The first step is to compute the city-wide per capita amount based on the workload weighted register we developed in Chapter IV:

CITY-WIDE WORKLOAD WEIGHTED PER CAPITA AMOUNT MODULE 2 FUNDS
SUPPORTING PER CAPITA ALLOCATION
TOTAL CITY-WIDE WORKLOAD
WEIGHTED REGISTER

 For fiscal year 1974-1975, the per capita amount would be about \$105.94:

CITY-WIDE WORKLOAD WEIGHTED PER CAPITA AMOUNT

\$93,711,131

884,560 STUDENTS (WORKLOAD WEIGHTED)

= \$105.9409548 PER STUDENT (WORKLOAD WEIGHTED)

*This amount is computed as follows:

TOTAL MODULE 2 FUNDS LESS 9% FOR SPECIAL NEEDS

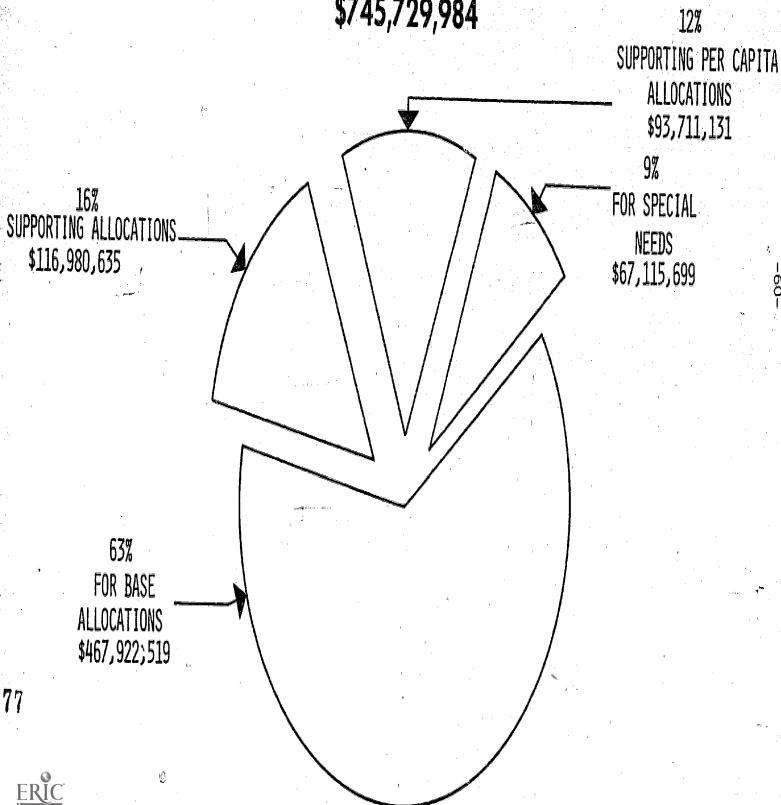
\$745,729,984 -\$ 67,115,699

MODULE 2 FUNDS FOR BASIC INSTRUCTIONAL SERVICES

\$678,614,285



INSTRUCTIONAL SERVICES (PROGRAM 30 MODULE 2) FISCAL YEAR 1974—1975 \$745,729,984



78

COMPUTING THE SUPPORTING PER CAPITA ALLOCATION

STEP 1

MODULE 2 FUNDS FOR SUPPORTING PER CAPITA ALLOCATION

\$93,711,131

TOTAL CITY-WIDE WORKLOAD WEIGHTED REGISTER

884,560

CITY-WIDE WORKLOAD WEIGHTED PER CAPITA AMOUNT

\$105.9409548

STEP 2

E.G., DISTRICT 10 CITY-WIDE WORKLOAD WEIGHTED PER CAPITA AMOUNT

\$105.9409548

DISTRICT d
WORKLOAD WEIGHTED
REGISTER

33,622

X

DISTRICT d SUPPORTING PER CAPITA ALLOCATION

\$3,561,947

=

A district's supporting per capita allocation is equal to its workload weighted register multiplied by the per capita amount:

For example, District 10 receives \$3,561,947
 for its supporting per capita allocation (Table V-4)

DISTRICT 10
SUPPORTING = 33,622 x \$105.9409548
PER CAPITA
ALLOCATION = \$3,561.947

The total instructional Services basic allocation to districts is the sum of their base, supporting percent, and supporting percept capita allocations.

 To complete our example, District 10 receives \$25,397,817 for its basic allocation:

The total allocations for basic instructional services to all districts are listed in Table V-5.



Table V-4
SUPPORTING PER CAPITA ALLOCATIONS

FISCAL YEAR 1974-1975

DISTRICT	WORKLOAD WEIGHTED REGISTER	SUPPORTING PER CAPITA ALLOCATION
1	18,270	\$ 1,935,541
2	24,162	2,559,745
3	21,118	2,237,261
4	18,664	1,977,282
5	23,032	2,440,032
6	20,748	2,198,063
7	30,816	3,264,676
8	36,417	3,858,052
9	40,988	4,342,308
10	33,622	3,561,947
11	28,770	3,047,921
12	33,821	3,583,029
13	25,596	2,711,665
14	30,670	3,249,209
15	29,253	3,099,091
16	20,236	2,143,821
17	30,831	3,266,266
18	22,910	2,427,107
19	34,518	3,656,870
20	28,329	3,001,201
21	28,191	2,986,581
22	27,679	2,932,340
23	22,595	2,393,736
24	26,010	2,755,524
25	26,548	2,812,520
2 27 28 29 30 31 32	19,293 31,413 27,700 29,334 25,554 42,595 24,877	2,043,919 3,327,923 2,934,564 3,107,672 2,707,215 4,512,557 2,635,493
TOTAL	884,560	\$93,711,131

Table V-5
BASIC INSTRUCTIONAL SERVICES ALLOCATION

FISCAL YEAR 1974-1975

DISTRICT	BASE ALLOCATION	SUPPORTING PERCENT ALLOCATION	SUPPORTING PER CAPITA ALLOCATION	MODULE 2 BASIC ALLOCATION
1	\$ 9,902,960	\$ 2,475,740	\$ 1,935,541	\$14,314,241
2	13,528,513	3,382,128	2,559,745	19,470,386
3	11,093,060	2,773,265	2,237,261	16,103,586
4	10,184,771	2,546,193	1,977,282	14,708,246
5	12,262,110	3,065,528	2,440,032	17,767,670
6	10,834,602	2,708,651	2,198,063	15,741,316
7	15,867,858	3,966,965	3,264,676	23,099,499
8	19,015,242	4,753,811	3,858,052	27,627,105
9	19,615,340	4,903,835	4,342,308	28,861,483
10	17,468,696	4,367,174	3,561,947	25,397,817
11	15,935,362	3,983,841	3,047,921	22,967,124
12	17,674,275	4,418,569	3,583,029	25,675,873
13	12,647,855	3,161,964	2,711,665	18,521,484
14	16,052,708	4,013,177	3,249,209	23,315,094
15	15,294,858	3,823,715	3,099,091	22,217,664
16	9,586,640	2,396,660	2,143,821	14,127,12[
17	14,866,806	3,716,702	3,266,266	21,849,774
18	12,145,013	3,036,253	2,427,107	17,608,373
19	17,7 8 8,823	4,447,206	3,656,870	25,892,899
20	15,093,153	3,773,288	3,001,201	21,867,642
21	15,371,346	3,842,837	2,9 8 6,581	22,200,764
22	15,734,707	3,933,677	2,932,340	22,600,724
23	11,553,691	2,888,423	2,393,736	16,835,850
24	13,635,564	3,408,891	2,755,524	19,799,979
25	15,230,359	3,807,590	2,812,520	21,850,469
26	11,329,241	2,832,310	2,043,919	16,205,470
27	17,312,450	4,328,113	3,327,923	24,968,486
28	15,489,937	3,872,484	2,934,564	22,296,985
29	16,092,950	4,023,238	3,107,672	23,223,860
30	13,783,276	3,445,819	2,707,215	19,936,310
31	23,312,136	5,828,034	4,512,557	33,652,727
32	12,218,217	3,054,554	2,635,493	17,908,264
TOTAL	\$467,922,519	\$116,980,635	\$93,711,131	\$678,614,285

(3) A Resource Equalization Strategy

The new allocation formulae for Module 2 follow a resource equalization strategy for achieving equal educational opportunity for all youth. In Chapter I, we noted that equal dollars do not buy equal resources everywhere. The "prices" a district must pay for "identical" inputs vary, and workload factors mandate different mixes or "packages" of resources per pupil. The allocation formulae recognize these differences:

- A district's allocation depends on its average teacher salary, the "price" it must pay for its teacher
- A district's allocation depends on its maximum pupil-teacher ratio, the basic classroom workload factor for teacher resources required to insure equal classroom teacher time for all students.

5. THE SPECIAL NEEDS ALLOCATION

In fiscal year 1974-1975, 9 percent of Module 2 funds or \$67,115,699 is set aside for special needs distribution on the basis of the number of pupils with reading scores one and one half or more years behind their grade level. This needs money provides these students with some of the services they require to support their educational progress.

- Special needs projects
- Special needs teachers, school aids, paraprofessionals, and occasional absences
- Salary changes occurring during fiscal year 1974-1975
- Special needs other than personal service



(I) Pupils With Low Reading Scores

The special needs allocation for community school districts is based on the estimated number of pupils with reading scores one and one half or more years behind their grade level on the Metropolitan Achievement Reading Tests.

 The fiscal year 1974-1975 computation is based on the April 1974 reading test scores of elementary and junior high school pupils.

The percent of pupils with low reading scores in a district is multiplied by its combined adjusted elementary and junior high school registers to obtain the estimated number of pupils with low reading scores.

DISTRICT d ESTIMATED NUMBER OF PUPILS WITH LOW READING SCORES DISTRICT d
PERCENT OF PUPILS
WITH LOW
READING SCORES

DISTRICT d ELEMENTARY AND JUNIOR HIGH ADJUSTED REGISTER

Χ

 For example, District 10 has an estimated 9,732 pupils with low reading scores

DISTRICT 10
ESTIMATED NUMBER
OF PUPILS WITH
LOW READING SCORES

 $0.37884 \times 25,690$

9,73. PUPILS (LOW READING)

Table V-6 lists the estimated number of pupils with low reading scores for each district.

(2) Special Needs Allocation

The next step is to determine the amount for special needs distribution:





Table V-6

ESTIMATED NUMBER OF PUPILS WITH LOW READING SCORES

ONE AND ONE-HALF OR MORE YEARS BEHIND THEIR GRADE LEVEL

FISCAL YEAR 1974-1975

DISTRICT	ELEMENTARY AND JUNIOR HIGH ADJUSTED RESGISTER	PROPORTION OF PUPILS WITH LOW READING SCORES	ESTIMATED NUMBER OF PUPILS WITH LOW READING CORES
. 2 3 4 5	13,764 18,671 16,021 14,313 17,373	0.51321 0.36001 0.45286 0.51 2 53 0.43136	7,064 6,722 7,255 7,336 7,494
6	15,693	0.47358	7,432
7	23,338	0,51511	12,022
8	27,145	0.40841	11,086
9	31,441	0.42683	13,420
10	25,690	0.37884	9,732
	23,287	0.24855	5,788
	25,921	0.45872	11,890
	19,556	0.41585	8,132
	22,927	0.46508	10,663
	21, 6 94	0.42375	9,193
16	15,801	0.35624	5,629
17	23,307	0.36070	8,407
18	18,241	0.30894	5,635
19	26,219	0.43029	11,282
20	22,742	0.30665	6,974
21	23,156	0.25726	5,957
22	22,875	0.16074	3,677
23	17,159	0.45192	7,754
24	21,196	0.29126	6,174
25	22,111	0.14228	3,146
26	16,041	0.14000	2,246
27	24,942	0.25742	6,421
28	22,225	0.27299	6,067
29	22,871	0.27284	6,240
30	20,299	0.28234	5,731
31	34,372	0.16582	5,700
32	18,938	0.49905	9,451
TOTAL	689,329	0.35066	241,720



MODULE 2 FUNDS FOR SPECIAL NEEDS DISTRIBUTION PERCENT OF MODULE 2 FUNDS FOR SPECIAL NEEDS

X TOTAL MODULE 2 FUNDS

 For fiscal year 1974-1975, 9% or \$67,115,699 is set aside for special needs distribution

MODULE 2 FUNDS FOR SPECIAL NEEDS DISTRIBUTION

 $0.09 \times $745,729,984$

= \$67,115,699

The funds for special needs distribution are generated from two sources (Figure V-7).

- \$47,700,000 is from State Aid
- Tax Levy funds provide the remaining \$19,415,699 required to bring the total up to 9%

Funds from both sources are distributed on the same basis of need: reading scores one and one half or more years behind grade level.

Two per capita amounts are required.

CITY-WIDE STATE AID SPECIAL NEEDS PER CAPITA AMOUNT STATE AID
MODULE 2 FUNDS FOR
SPECIAL NEEDS DISTRIBUTION
TOTAL CITY-WIDE NUMBER OF
PUPILS WITH LOW READING SCORES

CITY-WIDE TAX LEVY SPECIAL NEEDS PER CAPITA AMOUNT TAX LEVY

MODULE 2 FUNDS FOR

SPECIAL NEEDS DISTRIBUTION

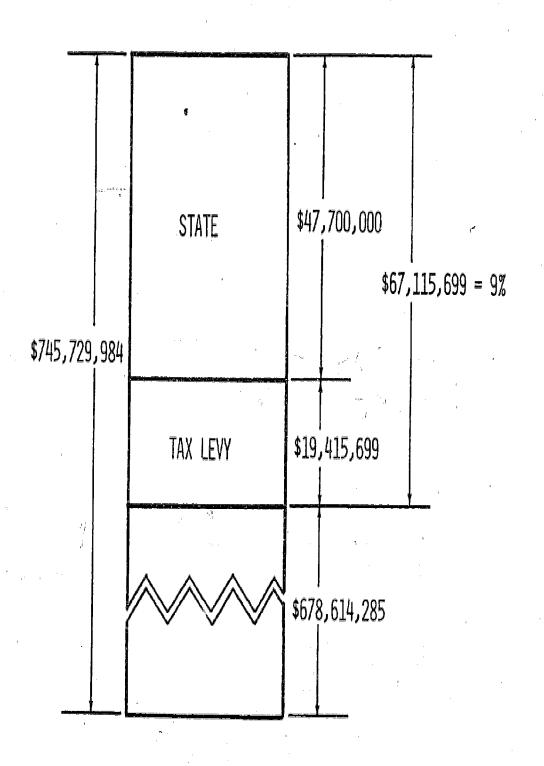
TOTAL CITY-WIDE NUMBER OF

PUPILS WITH LOW READING SCORES

 The fiscal year 1974-1975 computation for determining special needs is based on the reading scores of elementary and junior high school pupils in April 1974

Figure V=7

FUNDS FOR SPECIAL NEEDS FISCAL YEAR 1974 - 1975 \$67,115,699



CITY-WIDE STATE AID	=	\$47,700,000 241,720 PUPILS (LOW READING)
SPECIAL NEEDS PER CAPITA AMOUNT	=	\$197.335760 PER PUPIL (LOW READING)
CITY-WIDE TAX LEVY SPECIAL NEEDS	**	\$79,415,699 241,720 PUPILS (LOW READING)
PER CAPITA AMOUNT	=	\$80.323097 PER PUPIL (LOW READING)

Finally, the district special needs allocation from each source is the per capita amount multiplied by the district's number of pupils with low reading scores, and the total special needs allocation is the sum of the allocations from the two sources.

DISTRICT d STATE AID SPECIAL NEEDS ALLOCATION	=	DISTRICT d NUMBER OF PUPILS WITH X LOW READING SCORES	CITY-WIDE STATE AID SPECIAL NEEDS PER CAPITA AMOUNT
DISTRICT d TAX LEVY SPECIAL NEEDS ALLOCATION	=	DISTRICT d NUMBER OF PUPILS WITH X LOW READING SCORES	CITY-WIDE TAX LEVY SPECIAL NEEDS PER CAPITA AMOUNT
DISTRICT d SPECIAL NEEDS ALLOCATION		DISTRICT d STATE AID SPECIAL NEEDS + ALLOCATION	DISTRICT d TAX LEVY SPECIAL NEEDS ALLOCATION

For example, District 10 has an estimated 9,732 students with low reading scores and receives \$2,702,175

DISTRICT 10		, A.,
STATE AID	= '	$9,732 \times 197.335760
SPECIAL NEEDS		
ALLOCATION		y .
		¢1 000 470



Table V-7

SPECIAL NEEDS ALLOCATION

FISCAL YEAR 1974-1975

DISTRICT	NUMBER OF PUPILS WITH LOW READING SCORES	STATE AID ALLOCATION	TAX LEVY ALLOCATION	TOTAL ALLOCATION
l	7,064	\$ 1,393,980	\$ 567,402	\$ 1,961,382
2	6,722	1,326,491	539,932	1,866,423
3	7,255	1,431,671	582,744	2,014,415
4	7,336	1,447,655	589,250	2,036,905
5	7,494	1,478,834	601,941	2,080,775
6	7,432	1,4 6 6,599	59 6, 961	2,063,560
7	12,022	2,372,371	965,644	3,338,015
8	11,086	2,187,664	890,462	3,078,126
9	13,420	2,648,246	1,077,936	3,726,182
JO	9,732	1,920,472	781,704	2,702,176
11 12 13 14 15	5,788 11,890 8,132 10,663 9,193	1,142,179 2,346,322 1,604,734 2,104,191 1,814,108	464,910 955,042 653,187 856,485 738,410	1,607,089 3,301,364 2,257,921 2,960,676 2,552,518
16	5,629	1,110,803	452,139	1,562,942
17	8,407	1,659,002	675,276	2,334,278
18	5,635	1,111,987	452,621	1,564,608
19	11,282	2,226,342	906,205	3,132,547
20	6,974	1,376,220	560,173	1,936,393
21 22 23 24 25	5,957 3,677 7,754 6,174 3,146	1,175,529 725,604 1,530,142 1,218,351 620,818	478,485 295,348 622,825 495,915 252,697	1,654,014 1,020,952 2,152,967 1,714,266 873,515
26	2,246	443,216	180,406	623,622
27	6,421	1,267,093	515,755	1,782,848
28	6,067	1,197,236	487,320	1,684,556
29	6,240	1,231,375	501,216	1,732,591
30	5,731	1,130,931	460,332	1,591,263
31	5,700	1,124,814	457,842	1,582,656
32	9,451	1,865,020	759,134	2,624,154
TOTAL	241,720	\$47,700,000	\$19,415,699	

DISTRICT 10 TAX LEVY SPECIAL NEEDS ALLOCATION

9,732 x \$80.323097

= \$781,704

DISTRICT 10 SPECIAL NEEDS ALLOCATION

\$1,920,472 + \$781,704

= \$2,702,176

The special needs allocations for all districts are listed in Table V-7.

6. THE TOTAL MODULE 2 ALLOCATION

The total Module 2 allocation to each district is the sum of the basic and special needs allocations:

DISTRICT d MODULE 2 ALLOCATION DISTRICT d BASIC ALLOCATION DISTRICT d SPECIAL NEEDS ALLOCATION

To complete our example, District 10 receives \$28,099,993.

DISTRICT 10 MODULE 2 ALLOCATION

\$25,397,817 + \$2,702,176

= \$28,099,993

The total Module 2 allocations for all districts are listed in Table V-8.

Table V-8

INSTRUCTIONAL SERVICES

TOTAL ALLOCATION

FISCAL YEAR 1974-1975

DISTRICT	BASIC ALLOCATION	SPECIAL NEEDS ALLOCATION	TOTAL ALLOCATION
1	\$ 14,314,241	\$ 1,961,382	\$ 16,275,623
2	19,470,386	1,866,423	21,336,809
3	16,103,586	2,014,415	18,118,001
4	14,708,246	2,036,905	16,745,151
5	17,767,670	2,080,775	19,848,445
6	15,741,316	2,063,560	17,804,876
7	23,099,499	3,338,015	26,437,514
8	27,627,105	3,078,126	30,705,231
9	28,861,483	3,726,182	32,587,665
10	25,397,817	2,702,176	28,099,993
11	22,967,124	1,607,089 3,301,364 2,257,921 2,960,676 2,552,518	24,574,213
12	25,675,873		28,977,237
1 3	18,521,484		20,779,405
14	23,315,094		26,275,770
15	22,217,664		24,770,182
16	14,127,121	1,562,942	15,690,063
17	21,849,774	2,334,278	24,184,052
18	17,608,373	1,564,608	19,172,981
19	25,892,8 9 9	3,132,547	29,025,446
20	21,867,642	1,936,393	23,804,035
21	22,200,764	1,654,014	23,854,778
22	22,600,724	1,020,952	23,621,676
23	16,835,850	2,152,967	18,988,817
24	19,799,979	1,714,266	21,514,245
25	21,850,469	873,515	22,723,984
26	16,205,470	623,622	16,829,092
27	24,968,486	1,782,848	26,751,334
28	22,296,985	1,684,556	23,981,541
29	23,223,860	1,732,591	24,956,451
30	19,936,310	1,591,263	21,527,573
31	33,652,727	1,582, 6 56	35,235,383
32	17,908,264	2,624,154	20,532,418
TOTĄL	\$678,614,285	\$67, 115,699	\$745,729,984

VI. MODULE 3: CONTINUING EDUCATION AND EXTENDED USE OF SCHOOL BUILDINGS

Module 3 is divided into two parts: Continuing Education and Extended Use of School Buildings. Both parts are allocated on a per capita basis.

I. CONTINUING EDUCATION

allocation, Module 3A. The first step is to compute the weighted allocation register, shown in Table V1-1. This is composed of:

- The public school register
- Half the non-public school register
- Half the estimated number of low income children attending public schools

The next steps are to compute the per capita amount and the allocation to each district:

CITY-WIDE CONTINUING EDUCATION PER CAPITA AMOUNT

TOTAL MODULE 3A FUNDS
TOTAL CITY-WIDE WEIGHTED ALLOCATION
REGISTER FOR CONTINUING EDUCATION

- For fiscal year 1974-1975, the weighted register is based on the October 1973 school registers, the October 1973 Master File of the Department of Social Services, and the free lunch service during October 1973. The per capita amount is about \$14.84:

CITY-WIDE CONTINUING EDUCATION PER CAPITA AMOUNT

\$16,393,954 T,104,663.5 STUDENTS (WEIGHTED)

\$14.84067682 PER STUDENT (WEIGHTED)

ALLOCATING CONTINUING EDUCATION FUNDS MODULE 3A

+

STEP 1

W.

PUBLIC SCHOOL REGISTER

760,989

HALF THE NON-PUBLIC SCHOOL REGISTER

177,171.5

. .

HALF THE NUMBER OF LOW INCOME **CHILDREN**

166,503.0

TOTAL WEIGHTED **ALLOCATION** REGISTER

Ē

1,104,663.5

STEP 2

TOTAL MODULE 3A. FUNDS

+

\$16,393,954

TOTAL WEIGHTED ALLOCATION REGISTER

1,104,663.5

PER CAPITA MODULE 3A Ξ **ALLOCATION**

\$14.84067682

STEP 3

E.G. DISTRICT 10

SERIC.

DISTRICT d WEIGHTED ALLOCATION

REGISTER

MODULE 3A X

PER CAPITA ALLOCATION DISTRICT d MODULE 3A **ALLOCATION**

42,730.5

X

\$14.8406782

\$634,150

Table VI-1

MODULE 3 WEIGHTED REGISTERS

FISCAL YEAR 1974-1975

		•			WEIGHTE	D REGISTER
DISTRICT	PUBLIC SCHOOL REGISTER	NON-PUBLIC SCHOOL REGISTER	LOW INCOME CHILDREN	SCHOOL BUILDINGS	CONTINUING EDUCATION	EXTENDED USE
1	14,867	4,124	9,415	20	21,636.5	43,698.5
2	20,355	31,866	8,045	28	40,310.5	84,243.5
3	17,542	1 2, 175	10,235	21	28,747.0	55,834.5
4	15,446	3,185	10,784	21	22,430.5	45,023.0
5	18,778	3,104	11,764	27	26,212.0	54,764.0
6	17,561	9,356	8,529	14	26,503.5	45,181.5
7	25,375	6,212	16,914	30	36,938.0	70,044.0
8	29,889	10,899	15,867	32	43,272.0	80,721.5
9	34,561	5,205	22,886	32	48,606.5	83,209.0
10	28,388	15,874	12,811	27	42,730.5	77,667.5
11	25,588	19,018	6,472	34	38,333.0	81,842.0
12	28,562	3,122	19,349	31	39,797.5	72,358.5
13	21,311	8,217	14,438	26	32,638.5	62,747.0
14	25,145	13,559	16,150	30	39,999.5	76,779.0
15	24,239	17,324	12,351	28	39,076.5	75,738.5
16	17,122	3,531	12,631	19	25,203.0	45,968.5
17	25,476	5,665	13,059	22	34,838.0	59,670.5
18	19,570	6,112	4,994	2!	25,123.0	49,179.0
19	28,436	5,202	17,680	37	39,877.0	79,478.0
20	25,517	23,573	5,971	30	40,289.0	82,075.5
21	25,327	12,972	6,696	30	35,161.0	71,647.0
22	25,881	14,903	3,274	28	34,969.5	70,421.0
23	18,614	704	13,704	24	25,818.0	50,170.0
24	24,008	18,257	4,505	24	35,389.0	68,517.5
25	24,825	13,133	2,997	30	32,890.0	69,456.5
26 27 28 29 30 31 32	17,836 28,341 24,507 25,571 22,890 38,926 20,535	8,358 13,980 10,684 11,750 17,027 20,973 4,279	1,344 8,827 7,350 7,940 6,594 6,078	29 35 30 28 26 53 21	.22,687.0 39,744.5 33,524.0 35,416.0 34,700.5 52,451.5 29,350.5	55,866.0 81,734.5 68,866.0 69,291.0 69,214.0 115,938.0
TOTAL	760,989	354,343	333,006	888	1,104,663.5	52,490.0 2,169,835.0



Table VI-2

CONTINUING EDUCATION AND

EXTENDED USE OF SCHOOL BUILDINGS ALLOCATION

FISCAL YEAR 1974-1975

DISTRICT	CONTINUING	EXTENDED	TOTAL
	EDUCATION	USE	MODULE 3
	ALLOCATION	ALLOCATION	ALLOCATION
I	\$ 321,100	\$ 135,573	\$ 456,673
2	598,235	261,363	859,598
3	426,625	173,225	599,850
4	332,884	139,683	472,567
5	389,004	169,904	558,908
6	393,330	140,174	\ 533,504
7	548,185	217,310	765,495
8	642,186	250,436	892,622
9	721,353	258,154	979,507
10	634,150	240,961	875,111
	568,888	253,913	822,801
12	590,622	224,490	815,112
13	484,377	194,671	679,048
14	593,620	238,205	831,825
15	579,922	234,977	814,899
16	374,030	142,616	516,646
17	517,019	185,126	702,145
18	372,842	152,577	525,419
19	591,802	246,578	838,380
20	597,916	254,637	852,553
21	521,813	222,283	744,096
22	518,971	218,479	737,450
23	383,157	155,651	538,808
24	525,197	212,574	737,771
25	488,110	215,487	703,597
26 27 28 29 30 31	336.390 589,835 497,519 525,597 514,979 778,415 435,581	173,323 253,579 213,655 214,974 214,735 359,694 162,849	510,013 843,414 711,174 740,571 729,714 1,138,109 598,430
TOTAL	\$16,393, 9 54	\$6,731,856	\$23,125,810



Each district receives the per capita amount multiplied by its weighted register:

DISTRICT d
CONTINUING EDUCATION
ALLOCATION

DISTRICT d
WEIGHTED ALLOCATION
REGISTER FOR
CONTINUING EDUCATION

CITY-WIDE CONTINUING EDUCATION PER CAPITA AMOUNT

- Continuing our example, Table VI-2 shows District 10 receives \$634,150:

DISTRICT 10 CONTINUING EDUCATION ALLOCATION

42,730.5 X \$14.84067682

Χ

= \$634,150

2. EXTENDED USE OF SCHOOL BUILDINGS

The Extended Use of School Buildings allocation, Module 3B, is computed in a similar way. Figure VI-2 illustrates the steps. The weighted allocation register (Table VI-I) is composed of:

- The public school register
- The non-public school register
- Half the estimated number of low income children attending public schools
- One thousand times the number of free-standing school structures whose day register is 500 or more.

The next steps are to compute the per capita amount and the allocation to each district.

CITY-WIDE EXTENDED USE PER CAPITA AMOUNT

TOTAL MODULE 3B FUNDS
TOTAL CITY-WIDE WEIGHTED ALLOCATION
REGISTER FOR EXTENDED USE



STEP 1

PUBLIC SCHOOL REGISTER 760,989

NON-PUPLIC + SCHOOL REGISTER

354,343

+ HALF THE NUMBER OF LOW INCOME CHILDREN

166,503.0

NUMBER OF SCHOOL BUILDINGS X 1,000

+

888,000

TOTAL WEIGHTED ALLOCATION REGISTER

二

2,169,835.0

STEP 2

TOTAL MODULE 3B FUNDS

\$6,731,856

TOTAL
WEIGHTED
ALLOCATION
REGISTER

2,169,835.0

PER CAPITA MODULE 3B ALLOCATION

\$3.10247369

STEP 3

DISTRICT d WEIGHTED ALLOCATION REGISTER

X

PER CAPITA MODULE 3B ALLOCATION

DISTRICT d MODULE 3B ALLOCATION

JILI J

E.G., DISTRICT 10 77,667.5

X

\$3.10247369

=

=

\$240,961

For fiscal year 1974-1975, the weighted register is based on the October 1973 school registers, the October 1973 Master File of the Department of Social Services, the free lunch service during October 1973, and the number of school buildings. The per capita amount is about \$3.10:

CITY-WIDE EXTENDED USE PER CAPITA AMOUNT

\$6,731,856

2,169,835 STUDENTS (WEIGHTED)

= \$3.10247369 PER STUDENT (WEIGHTED)

Each district receives the per capita amount multiplied by its weighted register:

DISTRICT d EXTENDED USE ALLOCATION DISTRICT d
WEIGHTED ALLOCATION
REGISTER FOR
EXTENDED USE

CITY-WIDE EXTENDED USE X PER CAPITA AMOUNT

 Continuing with our example, Table VI-2 shows District 10 receives \$240,961:

DISTRICT 10
EXTENDED USE
ALLOCATION

77,667.5 X \$3.10247369

≈ \$240,961

The total Module 3 allocation to a district is the sum of parts A and B:

DISTRICT d
MODULE 3
ALLOCATION

DISTRICT d
CONTINUING EDUCATION +
ALLOCATION

DISTRICT d EXTENDED USE ALLOCATION

To complete our example, Table VI-2 shows District 10 receives \$875, | | | |:

DISTRICT 10 MODULE 3 ALLOCATION

\$634,150 + \$240,961

= \$875,111

102

VII. MODULE 4B: FUNDS FOR CAPITAL NOTE ITEMS

The monies placed into Module 4B, Funds for Capital Note Items, are distributed to Community School Districts on a per capita basis. The workload weighted register, which is developed in Chapter IV, is used to determine the per capita amount and each district's allocation.

CITY-WIDE CAPITAL NOTES PER CAPITA AMOUNT

TOTAL MODULE 4B FUNDS
TOTAL CITY-WIDE WORKLOAD
WEIGHTED ALLOCATION REGISTER

- For fiscal year 1974-1975, the per capita amount is about \$8.07:

CITY-WIDE CAPITAL NOTES PER CAPITA AMOUNT

\$7,140,934 884,560 STUDENTS (WORKLOAD WEIGHTED)

= \$8.07286561 PER STUDENT (WORKLOAD WEIGHTED)

Each district's Module 4B allocation is equal to its workload weighted register mutiplied by the per capita amount:

DISTRICT d MODULE 4B ALLOCATION DISTRICT d WORKLOAD WEIGHTED ALLOCATION REGISTER

CITY-WIDE X CAPITAL NOTES PER CAPITA AMOUNT

For example, District 10 receives \$271,426:

DISTRICT 10 MODULE 4B ALLOCATION

33,622 X \$8.07286561

\$271,426

The Module 4B allocation to each district is listed in Table VII-1.

Table VII-I

CAPITAL NOTES ALLOCATION

FISCAL YEAR 1974-1975

DISTRICT	WORKLOAD WEIGHTED REGISTER	TOTAL ALLOCATION
1	18,270	\$ 147,491
2	24,162	195,057
3	21,118	170,483
4	18,664	150,672
5	23,032	185,934
6	20,748	167,496
7	30,816	248,773
8	36,417	293,990
9	40,988	330,891
10	3 ⁻ ,622	271,426
11	28,770	232,256
12	33,821	273,032
13	25,5 9 6	206,633
14	30,670	247,595
15	29,253	236,156
16	20,2 3 6	163,363
17	30,831	248,895
18	22,910	184,949
19	34,518	278,659
20	28,329	228,696
21	28,191	227,582
22	27,679	223,449
23	22,595	182,406
24	26,010	209,975
25	26,548	214,318
26 27 28 29 30 31 3 2	19,293 31,413 27,700 29,334 25,554 42,595 24,877	155,750 253,593 223,618 236,809 206,294 343,864 200,829
TATCT	884,560	\$7,140,934

Appendix A

THE ADJUSTED REGISTER

The adjusted pupil register is the primary basis for allocating funds to the community school districts. The fiscal year 1974-1975 allocation formulae used the reported October 31, 1973, pupil register adjusted for:

- Long term absences
- Pupils in Special Education classes, who are supported by centrally administered funds
- Pupils attending school out of district
- Unusual register changes after October 31, 1973
- Pupils formerly in Special Education classes for emotionally handicapped children, who are supported by centrally administered funds
- Eighth grade graduates of intermediate schools

Table A-I lists the October 1973 register and adjustments, Table A-2 lists the adjusted register broken down by level and by Title I status, and Figure A-I illustrates the range of register sizes among the districts. Table A-3 shows the register changes between October 1972 and October 1973.



TABLE A-I

AUDITED_REGISTER_ADJUSTMENTS

FISCAL_YEAR_1974-1975

DISTRICT	REGISTERED REPORTED BY DISTRICT	LESS PRE-KINDERGARTEN REGISTER	PHYSICALLY AND MENTALLY HANDICAPPED	LESS JUNIOR GUIDANCE PUPILS	LESS AUDIT ADJUSTMENTS	TOTAL ADJUSTED REGISTER
1	16,292	544	198	16	667	14,867
2	21,554	206	466	57	470	20,355
3	19,122	419	428	22	711	17,542
4	16,479	210	329	54	440	15,446
5	19,786	163	417	25	403	18,778
6	18,050	0	224	0	265	17,561
7	26,016	0	410	27	204	25,375
8	31,217	173	482	36	637	29,889
9	3 7,013	3 74	518	16	1544	34,561
10	29,290	32	546	15	309	28,388
	26,756	207	700	121	140	25,588
	29,737	0	419	28	728	28,562
	22,337	295	414	44	273	21,311
	26,653	518	492	20	478	25,145
	25,123	0	482	36	366	24,239
16	18,259	154	363	13	607	17,122
17	26,144	40	267	12	349	.2 5, 476
18	20,212	0	425	39	178	19,570
19	29,677	195	494	28	524	28,436
20	26,406	12	603	29	2 45	25,517
21	26,080	0	488	56	209	25,327
22	26,290	0	317	4	88	25,881
23	20,053	115	330	41	953	18,614
24	24,418	39	281	9	81	24,008
25	25,349	0	439	0	85	24,825
26 27 28 29 30 31 32	18,259 29,280 25,450 26,206 23,550 39,928 21,235	0 0 287 0 0 304 0	377 727 349 339 449 592	27 41 51 106 29 63	19 171 256 190 182 43 539	17,836 28,341 24,507 25,571 22,890 38,926 20,535
ΓΟΤΑL	79 2, 221	4,287		1,065	12,354	760,989

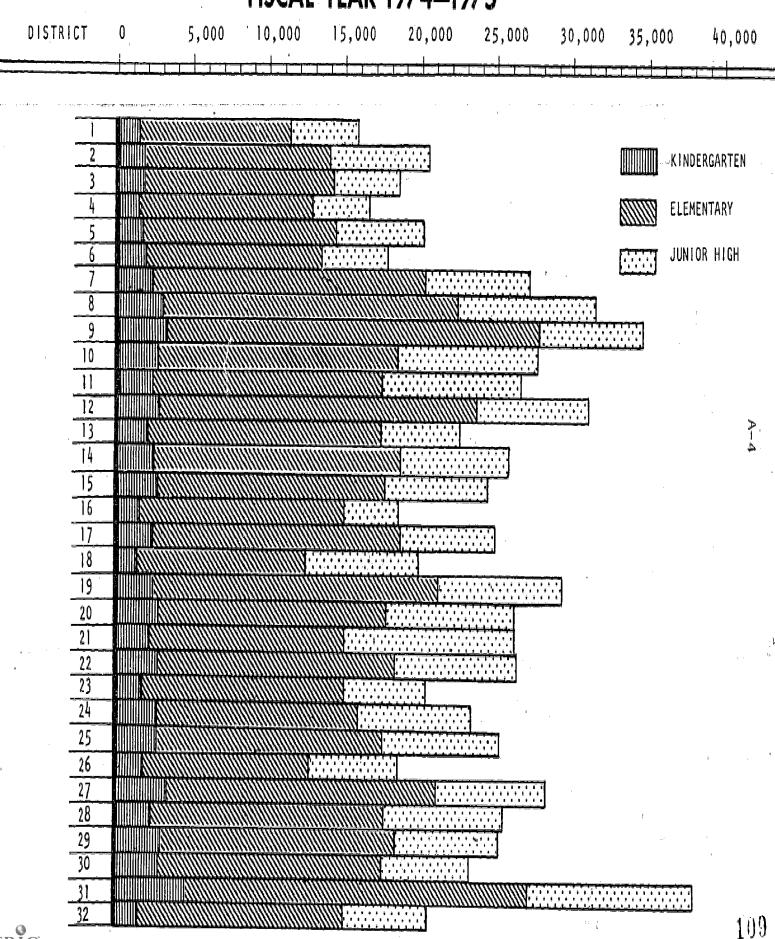
Table A-2
ADJUSTED REGISTER: OCTOBER 1973

FISCAL YEAR 1974-1975

	KINDE	RGARTEN	ELEM	ENTARY	JUNIO	R HIGH	
DISTRICT	TITLE I	NON- TITLE I	TITLE I	NON- TITLE I	TITLE I	NON- TITLE I	TOTAL
l 2 3 4 5	1,103 1,122 1,521 1,133 1,405	0 562 0 0	9,328 7,780 11,659 10,513 11,871	0 4,23! 0 0 0	4,436 4,586 4,362 3,800 5,502	0 2,074 0 0 0	14,867 20,355 17,542 15,446 18,778
6 7 8 9	1,600 2,037 2,328 3,120 1,681	268 0 416 0	9,750 16,529 14,932 24,272 11,394	1,592 0 1,832 0 5,522	4,351 6,809 8,221 7,169 7,224	0 0 2,160 0 1,550	17,561 25,375 29,889 34,561 28,388
11 12 13 14 15	500 2,641 1,755 2,218 2,451	1,801 0 0 0 94	3,687 20,064 14,502 15,642 14,520	10,628 0 0 0 0 364	1,217 5,857 5,054 7,285 6,810	7,755 0 0 0 0	25,588 28,562 21,311 25,145 24,239
16 17 18 19 20	1,321 2,169 434 1,997 514	0 0 895 220 2,261	12,654 16,613 3,573 17,054 2,845	0 7,080 1,180 11,787	3,147 6,694 3,039 7,985 2,483	0 0 4,549 0 5,627	17,122 25,476 19,570 28,436 25,517
21 22 23 24 25	337 190 1,455 411 0	1,834 2,816 0 2,401 2,714	2,913 1,253 12,229 1,879 0	12,262 14,155 0 11,777 14,610	1,856 0 4,9 3 0 0 0	6,125 7,467 0 7,540 7,501	25,327 25,881 18,614 24,008 24,825
26 27 28 29 30 31 32	0 1,301 919 1,524 1,062 669 1,597	1,795 2,098 1,363 1,176 1,529 3,885 0	0 8,249 5,975 8,497 5,889 3,968	10,200 9,518 8,747 7,182 8,601 18,529 0	0 2,446 2,191 4,542 3,251 2,324 5,304	5,841 4,729 5,312 2,650 2,558 9,551 0	17,836 28,341 24,507 25,571 22,890 38,926 20,535
TOTAL	42,515	29,145	313,668	159,797	132,875	82,989	760,989



DISTRICT ADJUSTED REGISTERS, OCTOBER 1973 FISCAL YEAR 1974—1975



1 ERIC

REGISTER CHANGES: OCTOBER 1972 TO OCTOBER 1973

	-	KINDERGARTEN			ELEMENTARY			JUNIOR HIGH		
DISTRICT	TITLE	NON-TITLE I	TOTAL	TITLE	NON-TITLE I	TOTAL	TITLE	NON-TITLE I	TOTAL	TOTAL CHANGE
1 2 3 4 5	- 191 - 21 - 203 - 199 - 243	- 10 0 0	- 191 - 31 - 203 - 199 - 243	- 522 - 187 - 768 - 858 - 809	0 - - 17 ~ 0 - 0 -	204 768 858	- 163 - 992 18 41 - 329	0 1036 0 0	- 163 44 18 41 - 329	- 876 - 191 - 953 - 1016 - 1381
6 7 8 9 10	- 7 - 304 168 - 111 - 115	- 36 0 - 433 0 - 14	- 43 - 304 - 265 - 111 - 129	- 179 - 1399 - 23 - 162 569		1399 2661	- 105 - 136 786 32 - 47	0 0 469 0	- 105 - 136 1255 32 - 59	- 247 - 1839 - 1671 - 241 762
11 12 13 14 15	- 114 - 247 - 299 - 281 - 174	- 10 0 0 0 9	- 124 - 247 - 299 - 281 - 165	- 900 - 1733 - 780 - 592	210 - 0 - 0 - 0 - - 16 -	1733	- 134 - 572 - 126 - 80 - 80	- 219 0 0 0	- 353 - 572 - 126 80 - 80	- 1167 - 2552 - 1205 - 793 - 258
16 17 18 19	- 317 - 302 - 145 - 214 - 6	0 0 - 19 - 77 - 126	- 317 - 302 - 164 - 291 - 132	- 732 195 - 776 - 362 - 147	0 - 0 455 - - 301 - - 284 -	732 195 321 663 431	- 506 2071 170 948 - 60	0 - 1447 - 60 - 876 - 84	- 506 624 110 72 - 144	- 1555 517 - 375 - 882 - 707
21 22 23 24 25	- 35 - 10 - 403 28 0	- 139 55 0 - 38 - 118	- 174 45 - 403 - 10 - 118	106 285 - 1035 89 0	- 562 - - 414 - 0 - 399 - 127 -	456 129 1035 488 127	9 0 - 323 - 2195 0	- 274 - 548 0 2334 - 192	- 265 - 548 - 323 139 - 192	- 895 - 632 - 1761 617 - 437
26 27 28 29 30 31 ERIC TOTAL	0 - 72 125 62 169 - 128 - 100	- 138 - 77 - 326 - 425 - 549 - 24 0	- 138 - 149 - 201 - 363 - 380 - 152 - 100	0 244 1511 357 1660 - 565 - 27	- 661 - - 151 - 1915 - - 210 - 1762 - 502 - 0 -	93 404 147 102 63	0 - 1506 - 1505 - 332 - 19 - 30 - 4182	- 246 1521 1007 54 51 920 0	- 246 15 - 498 386 70 1041 - 30	- 1045 - 41 - 1103 170 - 412 111 826 - 157

Appendix B

THE AVERAGE TEACHER SALARY

The average teacher salary is computed from data taken from the Board of Education R-740 teacher payroll file, which is used for producing the actual payroll. The use of the June 1974 average teacher salary gives effect to the most current variation among community school districts.

This amounts to incorporating an adjustment for teacher salary differences.

For each district, the total annual salaries as of June 1974 is divided by the corresponding total number of positions in order to come up with an average teacher salary for each district.

DISTRICT d		
AVERAGE	<u>=:</u>	TOTAL ANNUAL SALARIES
TEACHER 1	-	TOTAL NUMBER OF POSITIONS
SALARY		

 For example, District 10 has an average teacher salary of \$15,111.32850.

DISTRICT	10		
AVERAGE		_	\$20,838,522
TEACHER		声	1,379 POSITIONS
SALARY			
		=	\$15,111,32850

Table C-I lists the average teacher salary for each district.



Table B-I

AVERAGE TEACHER SALARY

JUNE 1974

DISTRICT	NUMBER OF POSITIONS*	ANNUAL SALARIES	AVERAGE SALARY
1	720	\$ 11,335,662	\$ 15,743.97500
2	972	15,823,965	16,279.79938
3	883	13,491,972	15,279.69649
4	817	12,960,994	15,864.12974
5	958	14,832,199	15,482.46242
6	827	12,549,322	15,174.51270
7	1,281	19,176,157	14,969.67760
8	1,400	21,263,050	15,187.89286
9	1,625	22,606,332	13,911.58892
10	1,379	20,838,522	15,111.32850
11	1,169	18,835,630	16,112.60051
12	1,403	21,321,589	15,197.14113
13	1,101	15,824,191	14,372.56222
14	1,263	19,217,602	15,215.83690
15	1,170	17,788,254	15,203.63590
16	996	12,341,422	13,773.90848
17	1,211	16,984,625	14,025.28902
18	929	14,318,169	15,412.45318
19	1,393	20,876,015	14,986.37114
20	1,181	18,300,835	15,496.04996
21	1,167	18,493,155	15,846.74807
22	1,074	17,751,130	16,528.05400
23	973	14,468,135	14,869.61459
24	1,069	16,286,500	15,235.26660
25	1,064	17,749,290	16,681.66353
26	770	13,137,825	17,062.11039
27	1,238	19,845,197	16,030.04604
28	1,125	18,285,602	16,253.86844
29	1,135	18,102,575	15,949.40529
30	1,007	15,790,397	15,680.63257
31	1,698	27,019,800	15,912.72085
32	1,031	14,716,100	14,273.61785
TOTAL	35,929	\$552,332,213	\$ 15,372.88021

* All annual teacher positions: 42311,53311,73011

Source: June 1974 R740 Status Report





Appendix C

BOARD OF EDUCATION RESOLUTION

ADOPTION OF TAX LEVY ALLOCATIONS FOR 1974-1975

JUNE 26, 1974

The Chancellor presents the following resolutions for adoption:

WHEREAS, the Chancellor, based on community boards' recommendations and staff analysed recommended formulas for allocation of 1974-1975 fiscal year tax levy funds, and

WHEREAS, the city board held consultation with community boards and the Mayor in accordance with requirements of the Decentralization Law, now therefore be it

RESOLVED, that the Board of Education authorizes the Chancellor to allocate the net adjusted appropriations provided by the city in Unit of Appropriation 30 for the fiscal year 1974-1975 in accordance with the formulas described in Attachment A and be it further

RESOLVED, that the Chancellor may, upon application by any community school district, allocate special purpose funds which are reserved in Unit of Appropriation 30 for purposes listed in A through K below utilizing formulas, criteria, and standards developed in consultation with community boards and the Office of the Mayor:

- A. for bilingual education;
- B. for registers in excess of October 31, 1973 register;
- C. for opening of new schools (OTPS only);
- D. for theft and vandalism;
- E. for pedagogic personnel properly declared in excess;
- F. for replacements for personnel on sabbatical leave or on terminal leave and for the salaries of supervisors on leave in lieu of sabbaticals;
- G. for school lunch programs;
- H. for repair and maintenance programs;
- for programs and activities which benefit community districts but which operate on an inter-district basis;
- J. for rentals;
- K. for such other purposes as may be determined as necessary by the Chancellor.

RESOLVED, that the Chancellor may authorize reasonable modifications of district schedules, after such schedules are initially established by module within the net adjusted funds allocated to each module, in accordance with the above provisions and approved by the Chancellor. Such modifications may include the transfer of funds between modules.



EXPLANATELON

The Board of Education is required by law to accept the budget appropriation as recommended by the Mayor and adopted by the Board of Estimate and the City Council and to allocate the net sums provided by them in unit of appropriation 30 for activities of community school districts in accordance with formulas adopted under the provisions of the decentralization law.

In fiscal year 1973-1974 the board adopted resolutions, after consultation and public hearings, directing the Chancellor to distribute net appropriations in unit of appropriation 30 among the community districts, in accordance with certain formulas. Changes have been made in the formula for allocating Program 30 funds in Fiscal Year 1974-1975; specifically, Module 2 (Instructional Services) and Module 4 (Special Formula funds). Formulas for other modules remain unchanged.

- A. Module 2 (Instructional Services) formula has been revised to maintain the level of need expenditures. Also, two adjustments have been included to reflect the relative instructional cost differences among districts, workload requirements and variations in average teacher salaries.
- B. Module 4 (Special Formula Funds) formula has been revised to include preparation period adjustments.

All allocation formulas for Program 30 are described in Attachment A.

ATTACHMENT A

(Attachment to Resolutions on Tax Levy Allocation Formulas for Fiscal Year 1974-1975)

I.I UNIT OF APPROPRIATION 30

Unit of Appropriation 30 is apportioned into subdivisions called modules. Each module represents a grouping of activities for which different allocation formulas are used. Where applicable, the audited October 31, 1973 public school register is utilized. If such registers are amended pursuant to provisions governing unusual register increases, such increased registers will be used.

1.2 COMMUNITY SCHOOL BOARDS AND DISTRICT ADMINISTRATION - Module 1

The formula distributes the net funds available for these activities in two parts:

 A basic allocation, equal to 75% of the total funds available for Module I activities, is distributed equally to each of the 32 community districts.



2. The balance is distributed among the 32 districts in proportion to pupil registers.

1.3 - INSTRUCTIONAL SERVICES - Module 2

The formula for instructional services provides that:

- A. The net funds available (including funds available for occasional absence and medical leave replacements), excluding 9 percent set aside for special need, be distributed on a per capita basis, weighted to give effect to the relative instructional cost differences among districts due to
 - Workload requirements in kindergarten, elementary, and junior high/intermediate school levels
 - Requirements for teacher preparation periods in Title I and non-Title I schools
 - Average teacher salaries.
- B. The funds set aside for special need be distributed in proportion to each district's number of elementary and junior high/intermediate pupils 1.5 years or more below grade level in reading ability as measured by M.A.T.

1.4 CONTINUING EDUCATION AND EXTENDED USE OF SCHOOL BUILDINGS - Module 3

Allocations for Continuing Education Services are based upon a weighted register of public and non-public school pupils, as well as the number of school-age children receiving family assistance. Each of these factors are weighted 1.0, 0.5 and 0.5 respectively.

The funds for Continuing Education are distributed to districts in proportion to their weighted registers.

Allocations for Extended Use of School Buildings are based upon a weighted register of public and non-public school pupils as well as the number of school-age children receiving family assistance and upon the number of free-standing school structures whose day register is 500 or more. Each of these factors are weighted 1.0, 1.0, 0.5 with each free-standing school structures credited for 1,000 pupils regardless of register.

The funds for Extended Use of School Buildings are distributed to districts in proportion to their weighted registers.

1.5 SPECIAL FORMULA FUNDS - Module 4

Special Formula Funds - Module 4 includes funds provided under Day Elementary and Day Junior High School - New York State Textbook Law plus funds for capital note items.



New York State Textbook Law funds contained in the appropriation are to be allocated on a per capita basis utilizing the September 30, 1973 registers in day elementary and day junior high/intermediate schools. On the basis of these registers, the State of New York provides funds not to exceed \$10.00 per capita.

Funds for textbooks, library books and equipment (capital note funded items) are distributed to community school districts using the formula described in 1.3 above (instructional services formula Module 2) without the salary adjustments.

1.6 SPECIAL PURPOSE FUNDS - Module 5

The funds provided in Unit of Appropriation 30 for the following purposes comprise Module 5A: Bilingual Education; School Lunch; Repair and Maintenace; Boro Wide Music; City Wide Awards; Rents; Collective Bargaining Adjustments; Leaves in Lieu of Sabbaticals; Replacements for Sabbatical and Terminal Leaves;

Module 5B is a special purpose reserve for the following district purposes:

Register increase; salaries of properly excessed personnel; preparation period coverage for Special Education classes; overhead costs for the Northeast Bronx Educational Park; one-time other than personal service costs for new schools; replacement of instructional equipment losses due to theft and vandalism.

1.7 FRINGE BENEFITS - Module 6

Funds provided in Unit of Appropriation 30 for fringe benefits are set aside for payments to trust and reserve accounts for the benefit of district personnel.

1.8 FURNITURE AND EQUIPMENT PROCUREMENT - Module 7

Allocations to districts for furniture and equipment are based on square footage in the district adjusted for utilization, age of buildings and modernizations.

Total square footage in each district is adjusted upward or downward for utilization (plus or minus percentage over or under utilized); then adjusted for average age of buildings over or under city-wide average; then adjusted downward 1% for each modernization in the last ten years.

Each district's percent of the city-wide total adjusted square footage is used to determine its proportionate share of the total dollars.

Respectfully submitted,

IRVING ANKER
Chancellor

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Appendix D

CONTENT OF MODULE 2 SUPPORTING PERCENT ALLOCATION

The Module 2 supporting percent allocation, which is described in Chapter V, supplements the base allocation by providing funds for:

- Additional teaching positions
- Salary increases or "lift"
- Occasional absence

In this Appendix, we will analyze each component of the supporting percent allocation, which is 25% of the base allocation.

1. ADDITIONAL TEACHING POSITIONS

The first component of the supporting percent allocation is for teachers in addition to the base number. In fiscal year 1973-1974, the base number of teachers is increased by an additional 10.7%. The procedure is developed below by going step by step through the computations for District 28 as an example. Table D-I lists the calculations for all districts.

For our computations, we use the fiscal year 1973-1974 Module 2 allocations, the fiscal year 1973-1974 allocation register (October 1972 adjusted register), and the number of teachers shown on the June 1974 position status report.



Table D-I

COMPARISON OF BASE AND ACTUAL NUMBER OF TEACHERS

FISCAL YEAR 1973-1974

DISTRICT	SPECIAL NEEDS ALLOCATION	TOTAL MODULE 2 ALLOCATION	PROPORTION OF SPEC. NEEDS TO TOTAL MODULE 2	NUMBER OF POSITIONS JUNE 1974	NO. OF SPEC. NEEDS TEACHERS	NO. OF TEACHERS LESS SPEC. NEEDS TEACHERS	BASE NO. OF TEACHERS*	PERCENT OF BASE NO. OF TEACHERS
1	\$ 987,052	\$ 15,064,952	.0655	720	47	673	662	101.7%
2	877,759	19,238,582	.0456	972	44	928	839	101.6
3	1,014,375	16,902,741	.0600	883	53	830	761	109.1
4	990,467	15,496,064	.0639	817	52	765	679	112.7
5	1,024,622	18,423,955	.0556	958 ,	53	905	847	106.8
6	959,729	15,932,110	.0602	827	50	777	724	107.3
7	1,653,056	24,531,386	.0674	1,281	86	1,195	1,129	105.8
8	1,618,902	27,679,554	.0585	1,400	82	1,318	1,278	103.1
9	1,987,765	29,461,910	.0675	1,625	110	1,515	1,417	106.9
10	1,229,546	24,841,620	.0495	1,379	68	1,311	1,120	117.1
4 1	850,436	23,233,847	.0366	1,169	43	1,126	1,002	112.4
12 13	1,642,809	27,217,705	.0604	1,403	85	1,318	1,268	103.9
	1,191,976	19,357,002	.0616	1,101	68	1,033	925	111,7
14	1,506,194	23,665,954	.0636	1,263	80	1,183	1,081	109.4
15	1,263,700	21,842,636	.0579	1,170	68	1,102	1,015	108.6
, 16	.905,082	15,342,023	.0590	896	53	843	760	110.9
17	1,178,315	21,159,026	.0557	1,211	67	1,144	1,012	113.0
18	737,728	17,792,438	.04 5	929	38	891	780	114.2
19	1,608,656	26,094,374	.0616	1,393	86	1,307	1,205	108.5
20	928,990	21,933,102	.0424	1,181	50	1,131	974	116.1
21	905,082	22,609,607	.0400	1,167	47	1,120	97 <u>2</u>	115.2
27	570,373	. 22,199,907	.0257	1,074	28	1,046	944	8.011
, 23	1,263,700	18,273,482	.0692	973	67	906	845	107.2
24	840,190	19,011,798	.0442	1,069	47	1,022	861	118.7
25	515,726	21,490,078	.0240	1,064	25	1,039	895	116.1
26	341,541	16,470,610	.0207	770	16	754	674	111.9
27	881,175	24,328,830	.0362	1,238	45	1,193	1,074	
28	901,667	22,724,784	.0397	1,125	45	1,080	977	. 110.5
29	901,667	22,162,374	.0407	1,135	46	1,089	978	111.3
30	795,789	19,370,252	.0411	1,007	4	966	868	111:3
31	826,528	30,963,380	.0267	1,698	45	1,653	1,385	119.4
32	1,253,454	18,264,946	.0686	1,031	45 . 7]	960	861	111.5
TOTAL	\$34,154,051	\$683,081,029	.0500	35,929	1,806	34,123	30,812	110.7

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Using October 1972 register (1973-1974 allocation register).

 In fiscal year 1973-1974, 3.97% of District 28's total Module 2 allocation is for special needs.

$$0.0397 = \frac{\$901,667}{\$901,667 + \$22,724,784}$$

From the June 1974 position status report,
 District 28 has 45 special needs teachers and
 1,080 other teachers.

- From the fiscal year 1973-1974 allocation register (October 1972 adjusted register), District 28 has a base of 977 teachers (see Chapters IV and V for computation methodology).
- Finally, the number of additional teachers as a percent of the base is calculated. District 28 has 10.5% more teachers than its base.

$$0.105 = 1 - \frac{1,080 \text{ TEACHERS}}{977 \text{ TEACHERS}}$$

City-wide, a 10.7% increase of the base allocation is required for additional teachers. This figure is quite conservative, since the base number of teachers is not adjusted downward to reflect declining registers.



2. SALARY INCREASE

The increase resulting from contractual increases and increments varies from teacher to teacher. This salary increase or "lift" is computed as follows:

Contractual Increase = $\frac{10}{12}$ × Amount of Increase (Cost for September through June)

Anniversary Increment = $\frac{10}{12}$ × Amount of Increment (Cost for September through June)

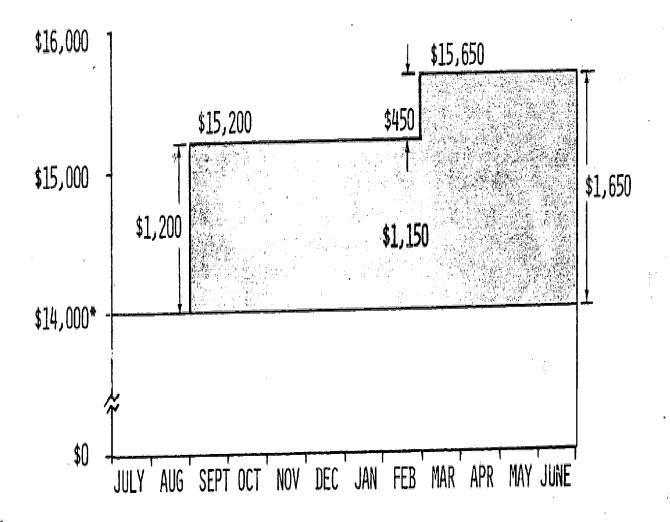
March Increment = $\frac{4}{12}$ × Amount of Increment

(Cost for March through June)

It should be noted that choosing September as the anniversary date inflates the cost for this salary increment. A large portion of teachers have an anniversary date after September due to sabbaticals, maternity leaves and leaves of absence without pay. Therefore, using the September date is consistent with providing sufficient funds to meet even highest cost conditions. Examples of computing contractual and incremental increases follow. The wide range in the cost of salary increases will be apparent.



EXAMPLES OF SALARY INCREASES FOR A TEACHER DURING FISCAL YEAR 1973—1974



* OCTOBER 1, 1972, STEP 5A, SCHEDULE C6

SOURCE: AGREEMENT, p. 100-101. APPENDIX A, SALARY SCHEDULES OF DAY SCHOOL TEACHERS

Example I - A teacher on Salary Schedule C6, Step 5A on July I, 1973

DATE	SALARY STEP	SALARY SCHEDULE	ANNUAL RATE	SALARY INCREASE
July 1973	5A	C6	\$14,000	
September 1973	5A	C6	14,750	Contractual Increase = \$750
Septemb e r 1973	5B	C6	15,200	Anniversary Increment = \$450
March 1974	6A	C6	15,650	March Increment = \$450
Cost of Salary Increases	12		$\frac{10}{12} \times \frac{10}{12} \times 10$	Anniversary $\frac{4}{12}$ March Increment $+\frac{4}{12}$ × \$450
	= \$625	+ \$375 -	+ \$150	
	= \$1,15	50		

This is an 8.2% salary increase (Figure D-I).

Example 2 - A teacher on Salary Schedule C6 Including Promotional Differential, Step 8B on July 1, 1973

DATE	SALARY STEP	SA LARY SCHEDULE	ANNUAL RATE	SALARY INCREASE
July 1,973	8B	C6 PD	\$18,100	7 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
September 1973	8B	C6 PD	19,250	Contractual Increase = \$1,150
September 1973	8B	C6 PD	19,250] Anniversary Increment = \$0
March 1974	8B	C6 PD	19,250	J March Increment = \$0

Cost of Salary Increases =
$$\frac{10}{12}$$
 x \$1,150 + $\frac{10}{12}$ x \$0 + $\frac{4}{12}$ x \$0 = \$958 + \$0 + \$0

This is a 5.3% salary increase.

Example 3 - A teacher on Salary Schedule C2 Including Promotional Differential, Step 4A on July 1, 1973

DATE	SALARY STEP	SALARY SCHEDULE	ANNUAL RATE	SALARY INCREASE
July 1973	4A	C2 PD	\$12,950	-
September 1973	4A	C2 PD	13,350	Contractual Increase = \$400
September 1973	4B	C2 PD	13,800	Anniversary Increment = \$450
March 1974	5A	C2 PD	14,250] imerch Increment = \$450
Cost of Salary Increases	$=\frac{10}{12}$		10 × \$450 + \$150	0 + <u>4</u> × \$450
	= \$859			

This is a 6.6% salary increase.

In addition to contractual changes and increments, other factors affecting district average salaries include:

- Promotional and salary differentials
- Retirement
- New Hires



- Sabbaticals
- Maternity leaves
- Leave of absence without pay
- Conversion of per diems to the R740 teacher payroll
- Change in number of teachers due to register decrease

The impact of these factors is a 5.0% to 7.5% range for salary increases. Again, to be conservative, an upper limit of 7.5% salary increase is used. This percent is applied to the base allocation for increases in salary, plus the amount for additional teachers. City-wide, 8.3% of the base allocation is needed for maximum possible salary increases.

3. OCCASIONAL ABSENCE

In fiscal year 1973-1974 the city-wide cost for occasional absence is about 4.5% of the base allocation for Module 2 (if the base had been used in fiscal year \$973-1974). So, a conservative 5.0% of the base allocation is used to cover the range in costs of occasional absence.

4. SUMMARY

The content of Module 2 supporting allocation can be expressed city-wide.



Supporting Percent Allocation = 25.0% of the Base Allocation

Additional Teachers = 10.7% of the Base Allocation

Salary Increases = 8.3% of the Base Allocation

Occasional Absence = 5.0% of the Base Allocation

Balance for other uses = 1.0% of the Base Allocation

District examples of the Module 2 supporting allocation follow:

District 26

Additional Teachers = 11.9% of the Base Allocation

Salary Increase of Base = 7.5% of the Base Allocation

Salary Increase of Additional Teachers = .9% of the Base Allocation

Occasional Absence = 4.7% of the Base Allocation

Supporting Percent Allocation = 25.0% of the Base Allocation

A 0.3% reduction in occasional absence monies can be reallocated to "additional teachers," and "salary increases," since no reduction was made for declining registers.

District 22

Additional Teachers	= .	10.8% of the Base Allocation
Salary Increase of Base	·. "\\	7.5% of the Base Allocation
Salary Increase of Additional Teachers	=	.8% of the Base Allocation
Occasional Absence	=	5.9% of the Base Allocation
Supporting Percent Allocation	= .	25.0% of the Base Allocation

The 0.9% addition in occasional absence can be reallocated to "additional teachers," and "salary increases."

