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\*Illinois

### ABSTRACT

This report has three parts--recommendations, substantiation for the recommendations, and an appendix of charts.and tables. The recommendations are as follows: that the state board of education be assigned the sole responsibility for planning and overseeing the educational programs and related instructional services whereby all individuals in Illinois have an opportunity to reach their fullest possible educational development from early age through secondary school; that the state revise its method of financing the education of children with handicaps and other exceptionalities (the most recommended method is full state funding of extra costs); that the state board be given such responsibilities and financial resources as are necessary to establish an information system for reporting and accounting by public schools, other governmental agencies, and private agencies to carry into effect the recommendations, and to improve the knowledge of educational activities in general; and that the present study be continued for four specific purposes. The chapters of the report are "Alternative Methods of Financing Special Education," "Special Education Services Provided by State Agencies," "Special Education and Assessment of Pupil Needs," "Education of Pre-School Age Handicapped Children," and "Bilingualism and Special Education." (Author/IRT)

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# SPECIAL EDUCATION .

Needs--Costs--Methods, of Financing

Report of a Study

William P. McLure, Director

Robert A. Burnham

Robert A. Henderson

through the

Bureau of Educational Research

College of Education

University of Illinois at Urbana-Champaign

Illinois School Problems Commission

Illinois Office of Education

May 1975

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## COOPERATING SCHOOL DISTRICTS

Alsip, Hazelgreen and Oak Lawn
Elementary School District 126
Cook County

Blue Island School District 130 Elementary District Cook County

Bloomington School District 87

McLean County

Champaign Community Unit School
District 4
Champaign County

City of Chicago School District 299

Cook County

Decatur School District 61
Macon County

Downers Grove School District 58
Du Page County

Edwardsville Community Unit
School District 7

Madison County

Galesburg Community Unit School
District 205.,
Know County

Harrishurg Community Unit School
District 3
Saline County.

Jacksonville School District 117
Morgan County

Marion Community Unit School
District 2
Williamson County

Mattoon Community Unit School
District 2
Cales County

Moline Unit School District 40
\*Rock Island County

Mt. Carmel Community Unit

Mt. Vernon Township High School
District 201
Jefferson County

Mt. Vernon Elementary District Jefferson County

Peoria School District 150 Peoroa County

Quincy School District 172

Adams' County

Robinson Community Unit School
District 2
Crawford County

Rockford School District 205
Winnebago County

Rock Island School District 41
Rock Island County

Vandalia Community Unit School

District 203

Fayette County

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#### FOREWORD

The director gratefully acknowledges the assistance of all who participated in this study: the staff, officials who provided extensive data from cooperating school districts, consultants, teachers who provided information on their instructional needs, Directors of Joint Agreement Districts, and interested individuals in general.

Several persons deserve special recognition: Professof Merle Karnes prepared a position paper based on her extensive research for a number of years with pre-school handicapped children. Professor Jacquetta Hill-Burnett pre-pared a paper on bilingualism from her research with children from bicultural backgrounds. Both of these papers are included as chapters in this report.

Miss Pence made an analysis of the responses of a sample of teachers, regular and special, who presented evaluations of specialized assistance in teaching pupils with exceptionalities.

Other persons presented a variety of helpful materials. Among these are Directors of Joint Agreement Districts: Stanley T. Bristol, Highland Park; L. D. Vuillemot, Gurnee; Vernon F. Frazee, Morton Grove; Guy H. Mahan, Franklin Park; George Skertich, South Holland; Wendell Jones, Lombard; Dean Fogle, Belleville. Cedric Benson, Director of the West Suburban Cooperative at. Cicero and Former President of the Illinois Association of Directors of . Special Education, was especially helpful in many ways throughout the study.

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William P. McLure

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Mewer in the experience of the Director of this study, and the senior members Dr. Burnham and Dr. Henderson associated with him, has more convincing evidence been found to support certain recommendations than is the case in this study. Never has the opportunity appeared so momentous for so much improvement and progress in the field known as "special education" with relatively so little required change in state policies and procedures.

It is with this conclusion that the following recommendations are submitted to the sponsors of this study, the Illinois School Problems Commission, and the Illinois Office of Education for their consideration and any action that they may deem to be in the interest of education for the citizens of Illinois.

1. The State Board of Education should be assigned the sole responsibility for planning and overseeing all educational programs and related instructional services, and the necessary operational provisions whereby all individuals in this state have an opportunity for their fullest possible educational development from early age through secondary school.

With respect to the education of children with handicaps and other exceptionalities, this recommendation should be applicable as follows:

- (1) The State Board of Education should have authority to define and approve programs of instruction, supportive services, and appropriate institutional arrangements for all persons from birth through graduation from high school, and to provide for the uneducables the most appropriate experiences deemed best throughout life.
- (2) The State Board of Education should be responsible for administering inter-disciplinary diagnostic procedures (utilizing expertise of

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psychologists, medical experts, social workers, teachers, parents, and others) for the following: (a) to identify the needs of handicapped persons, and (b) to determine their proper placement in other governmental agencies and in private institutions.

The state should revise its present method of financing the education of children with handicaps and other exceptionalities in the public schools. The method recommended as most appropriate is described in this study as Full State Funding of Extra Costs of programs of children with exceptional needs as compared with other children. This method is described in detail in this report on pages 33-36.

This procedure is based on the evidence that children have varying needs and costs which are not evenly distributed among school districts. Since the general state aid formula is designed to equalize only the basic or regular costs of all pupils, state assumption of extra costs for exceptional educational needs would be a significant step toward improvement of the equalization of financial support of education in Illinois.

If adopted this method of financing special education should be implemented as follows:

- (1) Field testing of the method by March 1, 1976.
- (2) Operation of the method in 1976-77.
- (3) The revised method should be made applicable on a current funding basis; i.e., based on the current year's enrollments rather than the preceding year. For this purpose a system of continuous enrollments from one year to the next should be established.

  Thus the enrollments of the preceding year could be used for

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preliminary payments in the new year until the pupil-load of the current year is established.

3. The State Board of Education should be given such explicit responsibility and financial resources as necessary to establish a system of information for reporting and accounting by public schools, other governmental agencies, and private agencies to carry into effect the recommendations as proposed herein, as well as to improve the knowledge of educational activities in general.

Such a system would require only simple modifications in the present information system as as to indicate the numbers of clientele with varying needs and designated programs for treatment, and to account for the costs on a program basis.

- 4. This study of Special Eduction should be continued into the fiscal year 1975-76 as phase II for the rollowing specific purposes:
  - (1) To test the revised financial method for application in the 1976-77 year.
  - (2) To develop the proposed information system to be adopted concurrently with the new financial system in 1976-77 among public school districts, and other state agencies administering special education programs or services.
  - of information management and fiscal analysis of all educational functions under the jurisdiction of the State Board of Education.
  - (4) To study the organization and administration of Joint Agreement

    Districts for Special Education, needs for capital facilities, and
    other matters which time does not permit completion in the present
    study.



## CHAPTER I

# ALTERNATIVE METHODS OF FINANCING SPRCIAL EDUCATION William P. McLure

#### Introduction

The public school finance system of Illinois, like every other state, includes methods of funding which were derived over the years from educational purposes, and the most generally accepted knowledge of how to provide instruction and use resources to achieve those purposes.

This study is focused on "Special Education" as an area or component of the total system of public elementary and secondary education. This area consists of some twenty-two instructional programs for which special funds are provided from state and federal revenues.

For reasons which should become clear as the discussion proceeds these programs are treated within the context of the total educational system. Thus the study is designed to show the relative status of special education programs as compared with kindergarten, pre-kindergarten, vocational education, and all remaining parts classified as basic or general programs.

## The Nature of Special Education

The financial alternatives presented in this study are based on an interpretation of special education, what it was, what it is, and where it is going. There are three periods in this century which reveal some discernible trends which help to clarify alternative methods of financing in the immediate future.

Pre-1950: The Early Years

The earliest programs were mainly for the very severely handicapped children in need of 24-hour day care. These were wards of the state and were cared for in state mental institutions, schools for incorrigibles, and state schools for the deaf and blind. Some were accommodated in eleemosynary institutions.

The first programs developed in the public schools were mostly for severely handicapped pupils, those with limited learning capacity, and serious emotional and physical difficulties. A "program" consisted of a small group of children with similar handicaps and a teacher. There was little professional training for teaching these children, the best credentials being a good teacher of any children, common sense, patience, and ability to avoid over-empathy in working with handicapped persons.

The teacher of handicapped children was often paid a bonus in salary as an incentive to work with children whom most persons considered burdensome and difficult, if not unrewarding subjects for demonstrable teaching success. Separate salary schedules for these teachers became common in some states but were later discontinued. Small class size and some special materials resulted in a per puril cost considerably higher than the "normal" or "regular" pupils:

The practice of earmarking special state aid arose out of the need to assist local school districts for the extra costs entailed in operating the programs for the handicapped. The true costs were known to be higher than those for Pregular" or non-handicapped pupils. But methods of cost analysis were not developed to determine true costs, or to estimate operational costs

which might have been used as bases for distributing special state funds, or for testing the adequacy or equity of the special aids. Regardless of the types of special aids for special education among the states, these funds became known as categorical aids. Also, they were all "add-on" aids in recognition of extra costs that might impose hardships on some districts to offer programs either because of low local tax ability or a high prevalence of children in the district, or both. Another important consideration in state policy was the incentive held out to school systems to identify all children of given handicaps and to establish special programs for them.

1950 - 1970: Mid-Century Era of Extension and Development

This period was noted for a plethora of ideas, debates, experiments, and development. Many old labels gave way to new ones. There was much effort to find a more appropriate descriptor for the field than Special Education for the Handicapped. The most widely used substitute for handicapped became exceptional. This term seemed more rational to deal with the principle of individual differences that range from very severely handicapped to highly gifted capacities, each deserving special attention.

In these two decades there was an expansion in professional knowledge and skill to attend to individual pupil needs. The early concept of one teacher for a group gave way to a variety of instructional patterns backed up by a broad range of professional services, psychologists, therapists, social workers, instructional aides, and others.

Diagnosis of need expanded from evaluation by the medical specialist and the psychological tester to the combined judgments of teams consisting of physical therapists, psychological examiners, teachers, social workers,

administrators and supervisors, and parents. Instruction expanded to include supportive staff like the physical therapists, teaching assistants, social workers, and supervisors. Class groups became less isolated, and pupils with handicaps of low severity were introduced into regular classes for part of their work. Pupils with mild handicaps were retained in their regular classes and given supplementary instruction by "special" teachers in a variety of ways: in small groups, some individual curofing, and experience in resource instructional centers. Thus, this mid-century period was characterized most uniquely for developing professional knowledge and differentiating instructional methods and learning activities to meet individual needs.

1970 - 2000: Late Century: The Present and the Firly Future

As we examine the present we find much of the past and some of the future. We may find clues to the distinction between the past and the future by examining the great range in educational practice, or human experience, among school systems. So-called "average practice" has been used widely as a criterion to obtain quantitative and descriptive information for purposes of serting state policies.

Most of what we call "average practice" in education is neither fish nor fowl, meither too bad nor too good, and representative of both the past and the future. Thus the task of revising state fiscal policies for special education, like all other phases of education, requires an inter
pretation of the range of human experiences above and beyond average practice. Somewhere beyond average practice we may find the most dependable sense of direction, and the most reliable penchmarks on which to establish

will see how this principle of better-than-average is used in developing a formula for estimating cost allowances (Chart III).

These salient trends are illustrated in Chart I. First, the attention to pupils with very severe handicaps extended to include those with lesser and lesser handicaps, and to a change from the concept of "handicap" to "exceptionality." In cost analysis of programs, as we shall show later, the extent of resource input is highly associated with severity of handicap. Thus we have used in Chart I the term "resource intensity" as synonymous with the commonly used term of "severity of handicap."

We have come to a point in time when public education can, with adequate resources and public cooperation, become a totally adaptive system to fulfill the needs of all individuals. Our national purpose in education is becoming a goal to develop every individual as fully as possible. The Illinois Constitution expresses this idea well as follows: A fundamental goal of the people of the State is the educational development of all persons to the limits of their capacities. There is ample evidence to support this concept of education as human development: new federal aids in recent years, new state legislation in the last ten years, court decisions on individual rights, and the rise of public concern for equal educational opportunity.

Special education has developed as a unique phase of education, noted for its attention to individuals with special needs either arising out of or closely associated with physiological and neurological handicaps. The field started with the very severely and severely handicapped persons and

1970 - 2000: LATE CENTURY -- PRESENT AND EARLY FUTURE Totally Adaptive System for Fulfillment of All Individual Needs 1950 - 1970: MID-CENTURY--EXTENSION AND DEVELOPMENT \*Emerging Differentiation of Instructional Methods PRE-1950--EARLY YEARS One Teacher - One Group Very Very Basic High Moderate • High Low (General) Mild Mild

CHART I: SPECIAL EDUCATION IN THE TWENTIETH CENTURY

Categories of Resource Intensity

expanded to include those with moderate, mild, and very mild difficulties.

Illinois is one of the few states that has developed programs for the gifted on a limited basis in response to public demand. More than anything else, these programs are evidence of the emerging goal to meet the needs of all individuals.

But special education is not the only portion of the school system that is focusing attention on individual needs. These needs are the central concern of the entire system. Thus, the time may be past when such terms as "handicapped," "regular teachers," "special teachers," and even "special education" will be defensible in developing programs and procedures to meet the needs of all individuals. In the meantime we must use these terms until others may be found to serve as better descriptors for organizing personnel, resqurces, and learning activities.

The fulfillment of all individual needs is the most important idea that will shape future fiscal policies in special education, and in all other phases of education. Thus education is potentially one of the greatest growth enterprises in this nation, despite the current decrease in school population. The growth potential lies in the unmet needs for human development, of which we have no dependable estimates of relative magnitude and costs. Today, much attention, of necessity, is being focused on declining enrollments, how to cut the budget accordingly, and how to maintain a viable system in the face of inflation. In this hear future that is described, our nation could experience a cris's of "human shortage" of skills and knowledge in relation to the total human potential.

Illinois has been among the leading states in expanding special programs to meet the exceptional needs of pupils as illustrated in Chart I. We can

now present data on 23 school districts that cooperated in this study, to show something of the stage of developments and to point up some crucial issues for the future.

Table 1 shows a discribution of pupils in two groups of special programs. The first group includes 19 programs which are reimbursed with "special education" aids. The second group includes three programs, compensatory (mainly Title I), bilingual, and gifted. Group I consists of 36.5 percent of all pupils in special programs in these districts. This figure is 8.0 percent of the total school population in this sample.

Group II consists of 63.5 percent of all pupils in special programs and 13.8 percent of the total school population in the sample. If we combine the 16,888 pupils in speech correction with Group II, then the remainder of Group I amounts to 5.5 percent of the total school enrollment, and then Group II becomes 16.3 percent of the total.

The pupils in speech correction programs in Group I have about the same pupil-teacher ratio as those in Group II. Also, they have about the same back-up or supportive services behind each teacher. They have about the same intensity of resource input per pupil as the three programs in Group II. Hence, because of comparability, we can shift the pupils in Speech Correction to Group II. With this change we find that 75 percent of the pupils in the sample would be in Group II. In this revised group then, only 32 percent of the teachers are "special" or entitled to reimbursable aid.

In Group I, the remainder of 38,516 pupils amounts to 25 percent of all pupils in special programs. For these pupils 94 percent of the



Table 1

Distribution of Pupils and Teachers by Groups of Programs 1973-74

Total		**************************************		, GROUP I			•	CROIIP	11 di	×	
No. No. Regular No. Special Total   Pupils Teachers   No. No. Regular No. Special Total   Pupils Teachers Tea		A11	Programs	cluding. Gro	II.dr	Special	-	atory(Title		al,	Special .
1,	,		No. Regular Teachèrs	No. Special Teachers			No. Pupil	വ	• ಚ		Teachers % of Total
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1.0	Jacksonville	235	16.7	29.5	46.2	63.9	508	23.3		31,9	× 0
16.56 20. 22 42 52.4 222 11.3 5 16.3 16.3 689 22 26.5 48.5 54.6 625 26.1 12.5 98.6 68.7 98 4.5 3.7 5 16.3 15.1 12.5 98.6 66.7 98 4.5 3 7.5 16.3 16.2 17.1 70.2 184 7.1 7.1 70.2 184 7.1 7.1 12 17.1 70.2 184 7.1 7.1 14.1 19.1 19.1 19.1 19.1 19.1 19.1 19	Nerton	929	21.5	, 9 <del>,</del>	67.6	68.0	134	2.8	•	12,5	
Moline	Mattoon	. 656	, 20,	22	42	52.4	222	11.3	5	16.3	. ~
Mt. Carmel, 288 7.5 15 22.5 66.7 98 4.5 3 7.5 7.5 Mt. Carmel, Mt. Vernon (K-2) 244 5.1 12 17.1 70.2 184 7.1 7 14.1 Mt. Vernon (9-12) 234 9.3 44 13.3 30.1 430 18.4 4.8 23.2 Mt. Vernon (9-12) 234 9.3 4 13.3 30.1 430 18.4 4.8 23.2 19 19 19 19 19 19 19 19 12.6 4.5 11.0 59.1 419 21.8 4.8 26.6 234 24.6 17.3 185 358 51.7 4.225 174 60 234 25.6 Kock Island 166 4 881.6 3,702.4 4,584.0 80.8 96,245 3,443.8 1,670.4 5,114.2    **Coff Total in All Sp. Prog. 36.5 9.1 38.; 47.3 63.5 35.5 17.2 52.7 Shifting Speech Cro Cro II 38,516 228 3,464 4 3,692 94 113,133 4,098 1,908 6,006 Grp I to Grp II	Moline	689	22	26.5	48.5	54.6	625		٠.	38.6	32.4
Mt. Vernon (K-8) 244 5.1 12 17.1 70.2 184 7.1 7 14.1 14.1 Protection (9-12) 234 9.3 4 13.3 30.1 430 18.4 4.8 23.2 Peoria 1, 178 16.2 117.2 133.4 87.9 327 13 19 19 19 19 19 19 19 100.0 300 13 10 23 10 23 10.0 173 185 358 51.7 4,225 174 60 234 7.2 174 16 35 51 51.7 4,225 174 60 234 7.2 174 16 35 51.7 4,225 174 60 234 7.2 174 16 35 51.7 4,584.0 80.8 96,245 3,443.8 1,670.4 5,114.2	Carmel.	288	7.5	1.5	22.5		86	4.	•	, 7 , 6	0:07
Wt. Vernon (9-12)         234         9.3         4         13.3         30.1         430         18.4         4.8         23.2           Peoria         1,178         16.2         117.2         133.4         87.9         327         18.4         19         19         19         19         19         19         19         19         19         19         19         19         19         19         19         19         19         19         19         19         19         19         19         19         19         19         19         19         19         19         19         23         24         23         23         23         4         23         23         23         23         24         33         31.4         4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4         31.4	Vernon	244	5.1	12	17.1	70.2	1.84	7.1		1.21	9 67
Peorla (1,178 16.2 117.2 133.4 87.9 327 19 19 19 19 19 19 19 19 19 19 19 19 19	Vernon	.234	6	7		30.1	430	18.4	. 8	23.2	20.00
Quincy   621   0   59.5   59.5   100.0   300   13   10   23     Rockford   5,490   173   185   358   51.7   4,225   174   60   234     Rock Island   747   16   35   51   68.6   673   22.4   9   31.4     Vandalia   166   4   881.6   3,702.4   4,584.0   80.8   96,245   3,443.8   1,670.4   5,114.2     X of Total   ToTal   55,404   881.6   3,702.4   4,584.0   80.8   96,245   3,443.8   1,670.4   5,114.2     X of Total in All Sp. Prog.   36.5   9.1   33.   47.3   63.5   35.5   17.2   52.7     Shifting Speech	Peoria .	1,178	16.2	117.2	133.4	87.9	327	!	61	•	0.001
Robinson 126 4.5 6.5 11.0 59.1 419 21.8 4.8 26.6 Rockford 5,490 173 185 358 51.7 4,225 174 60 234 80ck Island 747 16 35 51 68.6 673 22.4 9 31.4 7.2 7.2 176 4 881.6 3,702.4 4,584.0 80.8 96,245 3,443.8 1,670.4 5,114.2	Quincy .	621	0	59.5	59.5	100:0	300	13,	 10.	23	
Rockford 5,490 173 185 358 51.7 4,225 174 60 234 Rock Island 747 16 35 51 68.6 673 22.4 9 31.4 Vandalia 166 4 8.5 12.5 68.0 92 4.2 3 7.2  TOTAL 55,404 881.6 3,702.4 4,584.0 80.8 96,245 3,443.8 1,670.4 5,114.2  % of Total in All Sp. Prog. 36.5 9.1 33.1 47.3 63.5 35.5 17.2 52.7  Shifting Speech 38,516 228 3,464 3,692 94 113,133 4,098 1,908 6,006  Grp I to Grp II  25% 35% 490 1,908 1,908 6,006	Kobinson	126	4.5	6.5	11,0	59.1	419	. 21.8	•	26.6	18.0
Rock Island       747       16       35       51       .68.6       673       22.4       9       31.4         Vandalia       166       4       8.5       12.5       68.0       92       4.2       9       31.4         TOTAL       55,404       881.6       3,702.4       4,584.0       80.8       96,245       3,443.8       1,670.4       5,114.2         Rock Total in All Sp. Prog.       36.5       9.1       33.4       47.3       63.5       35.5       17.2       52.7         Shifting Speech       25x       3,464       3,692       94       113,133       4,098       1,908       6,006         Grp I to Grp II       25x       75x		•	173	185	358	51.7	4,225	174	•	234	25.6
Vandalia 166 4 8.5 12.5 68.0 92 4.2 3 7.2  TOTAL 55,404 881.6 3,702.4 4,584.0 80.8 96,245 3,443.8 1,670.4 5,114.2  % of Total in All Sp. Prog. 36.5 9.1 33.4 47.3 63.5 35.5 17.2 52.7  Shifting Speech Speech Shift from 38,516 228 3,464 3,592 94 113,133 4,098 1,908 6,006	Rock Island.	747	<b>1</b> 6	. 32	51	.68.6	673	22.4	َ م م	31.4	28.7
TOTAL  X of Total in All Sp. Prog.  36.5 9.1 33.4  And Speech Speech Spitting Sp	Vandalia	166	4	8.5	12.5	68.0	. 92	4	'n	7.2	41.7
% of Total in All Sp. Prog. 36.5 9.1 33.4 47.3 63.5 35.5 17.2 52.7 Shifting Speech Corr from 38,516 228 3,464 3,692 94 113,133 4,098 1,908 6,006 Grp I to Grp II 25% 75%		5,404	. 881.6		4,584.0	•	96,245	3,443.8	1,670.4	,114	. 32.7
All Sp. Prog. 36.5 9.1 33.; 47.3 63.5 35.5 17.2 52.7 Shifting Speech 38,516 228 3,464 3,692 94 113,133 4,098 1,908 6,006 Grp II to Grp II 25% 75%	% of Total in		•						9		•
Shifting Speech 38,516 228 3,464 3,692 94 113,133 4,098 1,908 6,006 Grp I to Grp II 25% 75%	,os	36.5		7 "86"	47.3	•		35.5	17.2	52.7	
Crp I to Grp II 25% 3,464 3,692 94 113,133 4,098 1,908 6,006	Shifting		•	•	,	,		•	s)		Ĭ
25%	Corr from Gra II	3,516	•	3,464	, 692	, 76°	ຕຸ້	4,098		. 900 <b>'</b> 9	32
	,	25%			•		75%	•	. •		

teachers are classified as "special" and subject to some reimbursement from special state aid.

Practically all of the 96,245 pupils in Group II plus 16,888 in Speech Correction (113,133) are in regular classes. They are given supplementary instruction by a 32 percent component of "special" teachers. In the remainder of Group I only six percent of the total teaching staff consists of regular teachers, indicating little "mainstreaming" of these pupils into regular instructional classes. Thus, these children (38,516 of them) are the primary responsibility of "special education" teachers. For the other group with much less severity of handicap, or exceptionality, the primary responsibility is with "regular" teachers and only secondarily with "special education" teachers, though together they exercise a shared responsibility.

Now we may ask the question: As schools move forward in the future toward meeting the needs of all pupils, with whatever exceptionalities individuals may possess that deserve attention, who is to have primary instructional responsibility? The "regular" teacher? The "special" teacher?

Thus, we may raise the question as to whether the dichotomy of "special education" and "regular" thathing as we have operated in the past will be suitable for expansion into the future. If the "regular" teacher has primary responsibility for children with diverse exceptionalities, does he (or she) not need special knowledge and skill, though still in need of more specialized help?

The purpose of this discourse is to raise some profound issues about teacher training, and organization of instructional programs in schools in relation to methods of financing.

The Analysis of Costs

This study presents an intensive analysis of average per pupil costs in 22 special programs, kindergarten, pre-kindergarten, vocational education, elementary school (grades 1-8, or 1-9 as operated), and high school (9-12, or 10-12 as operated) in 23 school districts.

Structure of Costs

The classification of cost components is shown in Chart II. The scope of this study is limited to the major category of instructional costs.

Those defined as public services and capital outlay are excluded. These costs are determined by conditions and needs which are only indirectly related to the operating instructional costs.

Transportation is a good example of a public service because the state cannot locate instructional centers within walking distance of all pupils. Conditions of population dispersion, traffic hazards, handicaps, and others are well-known criteria for determining reasonable sts. The state is providing for a high proportion of these through direct aid up to 80 percent of allowable costs. The principle of equity requires that 100 percent allowance of well-planned programs of transportation service be funded directly by the state for all pupils in need, without distinction by instructional program. There is ample experience with this service to require only relatively minor adjustments in the present information system

	Instruction
3	Teachers
	Academic Supportive Staff
	Administrators - Counselors - Therapists Social Workers - Psychologists
	Auxiliary Services
	Clerks - Custodians - Supplies
ANNUAL	
OPERATING	Public Services
COSTS	Transportation
	Food Service
	llealth
	Rehabilitation
	Subsistence
	' Facilities
CAPITAL	Buildings - Grounds
OUTLAY	Equipment

Chart II: COMPONENTS OF SPECIAL EDUCATION COSTS

to establish valid measures of need and feasible monitoring procedures at the state level.

The other public services listed in Chart II must be based on case analysis or individuals and specific groups such as the low-prevalence, severely handicapped children cared for in special regional facilities, and children referred to private agencies. All of these have been outside the scope of this study.

Analysis of Program Costs in 23 School Districts

This analysis includes the operating expenditures in 23 cooperating school districts for instructional costs as defined in the preceding section for the year 1973-74. The exclusions are capital outlay, transportation, food service, community services, and tuition payments of pupils sent to other districts or to private agencies.

Cost is defined as the average instructional expenditure per pupil in a defined program, including the salaries of teachers, academic supportive staff, and auxiliary services. The details of computing the costs are shown in Table 14 of the Appendix. Also, there is in the Appendix a table for each cooperating district, showing the programs, number of pupils by program, costs per pupil, cost differentials, and average number of pupils per certified teacher in each program.

Program costs are computed for 19 so-called "Special Education" programs in this state, and three others: compensatory (Title I), bilingual, and gifted. Throughout this discussion all of these are treated as special programs irrespective of jurisdictional distinctions



for administering and funding. In addition there are general prekindergarten; kindergarten; elementary basic (general) in grades 1-8, or 1-9 as organized in a few districts; high school basic (general); and vocational education.

The base for comparing all of the above programs except vocational education is the average per pupil cost in the basic (general) program in elementary grades (1-8, or 1-9). The vocational programs are compared with per pupil cost in the high school basic (general) program. These comparisons are commonly referred to as cost differentials.

Further explanation can be made by referring the reader to Table 17 for Bloomington in the Appendix. Note that the average cost per elementary regular pupil in Bloomington is \$934, indexed to the value of 1.00 for comparative purposes. Five children in the pre-school handicapped program cost \$3,939 each, with a cost differential of 4.22. Note further that the elementary regular program has a pupil-teacher ratio of 20.0, while the pre-school program has 5.0. Since the teacher's (one in this case) salary is computed at the district average, the cost differential would be 4.0 if all non-teacher expenses were in the same proportion as those in the regular program. Hence, the figure 4.22 indicates that the back-up costs of this teacher are higher than those of the average teacher in the regular program.

Another way of interpreting the cost of this pre-school program is to look at the extra cost above the regular program. The amount of extra cost per pupil is \$3,005 or 3.22 above the regular. Thus when we subtract the regular program cost from the total cost of the special



program we have the extra costs which are attributable to the needs of these designated children and the methods by which the school system is organizing resources to deal with these needs.

Formula for Estimating Costs of Special Programs

With this background, we can move to the big issue of whether a formula, or generalization, can be derived from educational practice that would be an equitable measure of need and operationally feasible for the determination of funds for each district.

We can summarize the various analyses of the data. First of all, the program cost differentials do not show any distinctive variation at different expenditure levels of the regular program. (Data are not shown for these analyses.) In other words there are no differences in program cost differentials than can be attributed to the level of the regular (basic) program. This finding is not surprising when about 80 percent of all costs are in salaries of personnel.

Second, there is a wide variation in cost differentials among districts for the same program, or at least the little of the program. The wide variations in cost differentials reflect the variations in severity of handicap among pupils of every category except the most extreme cases.

The educational profession has been struggling for some time to eliminate categories based on physiological and neurological characteristics of children and substitute more appropriate ones that describe the educational treatment needed by the children. While some progress has been made, such titles as "Educationally Handicapped," "Learning



Disability," "Compensatory," and others are just as ambiguous as "Multiple Handicapped," "Partial Seeing," "Educable Mentally Handicapped," "Trainable Mentally Handicapped," and others.

When cost differentials are examined across programs, a factor shows up which is common to all, and that is the average number of pupils per certified teacher, or the size of the instructional unit. It really doesn't matter fiscally whether one program for physically handicapped and another for learning disabilities, operating at eight pupils per teacher with comparable back-up costs, are given one common cost differential or two separate ones by program title, so long as the color and quantity of funds are the same.

The definitional or categorical title of program is not suitable to derive a formula. The variations of handicaps within any program cannot be defined with objective precision. At least this writer has not found any basis for such a formula to avoid the tendency of measuring with a rubber band instead of with a common, verifiable yardstick.

The pupil-teacher ratio, or average number of pupils per certified teacher is found to be a suitable measure on which to formularize costs. This measure is capable of meeting educational needs of children, regardless of program, local administration, monitoring at the state level, reasonable precision in the determination of funds, and neutrality with respect to the flexibility of the system to utilize instructional methods. This measure allows the profession to continue with ambiguity until new knowledge provides more clarity.

The pupil-teacher ratio, with attendant back-up services, provides a basis for classifying programs according to resource intensity. Actually,

education in general has a high labor-product (pupil-staff) ratio and is classified as a high intensity resource enterprise. This is the fundamental fact which causes much of the long-term cost-push pressures of educational costs in our society.

This concept of the instructional unit, when applied to the various special programs, merely extends the range of resource intensity from the regular (basic) program to those pupils with extremely exceptional needs. There is, of course, a relationship of resource needs to the severity of handicap (or exceptionality). Therefore, five categories of resource intensity, corresponding to five sizes of instructional units, are chosen for illustration. Chart III shows the distribution of cost differentials of the 22 special programs in the sample of cooperating districts. The cost differentials on the vertical (Y) axis are related to the corresponding pupil-teacher ratio of the program on the horizontal (X) axis.

The distribution is curvilinear and hence the question arises as to whether a mathematical formula for a curve is more appropriate to illustrate a line of best fit than a series of straight-line segments of simpler nature. The latter has been chosen.

The line of best fit shown in Chart III is not a computed average based on the method of least squares. Instead it is an estimated average of the top half of the distribution of cost differentials. This is the better-than-average principle asserted earlier.

Table 2 shows a scale of computed values from the formulas represented by the line of fit in Chart III. The algebraic formulas for the line segments are shown at the bottom of this table. They may be found in any textbook for first-year algebra in high school.

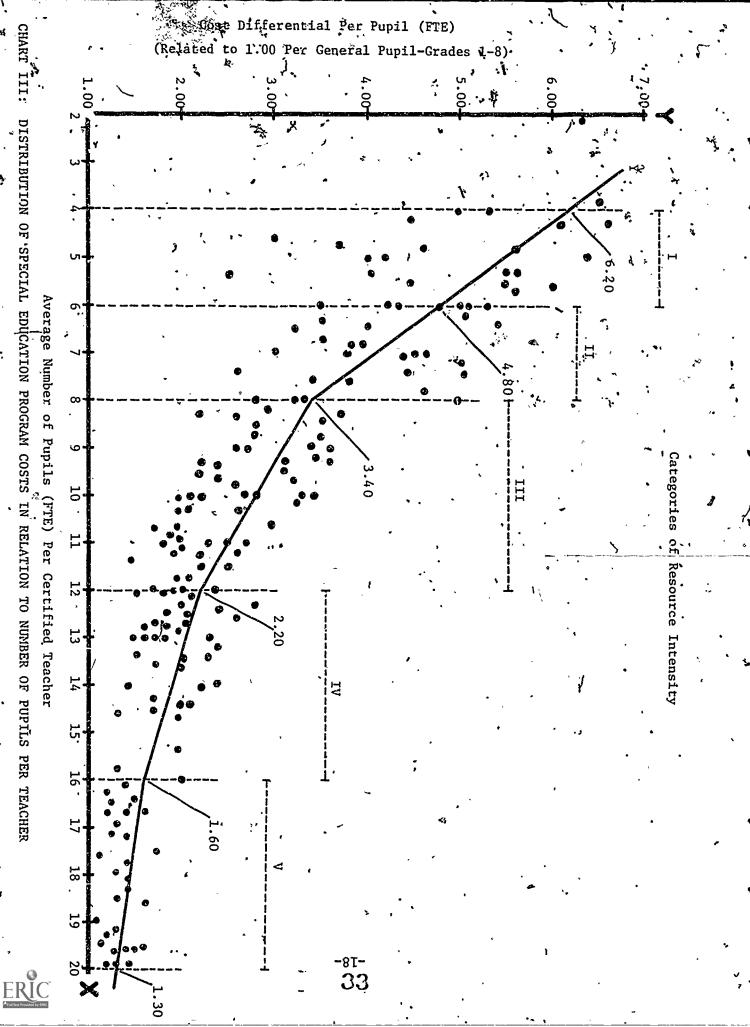


Table 2

for Special Programs

Scale of Program Cost Differentials

•	•	>	•.	`	•
Resource	Pupil-Teacher Cost ~	Resource	Pupil-Teacher	-Cost	AL
Caregory	Ratio (X) Diff. (Y)	Category	Ratio (X)	Diff.	(Ā),
* "	4.0 6.20		12.5	- 2.12	
ļ	4.5 5.85		13.0	- 2.05	
. I	5.0 5.50	1	13.5	- 1,97	
,	5.5 5.15	, IV	14.0	÷ 1, 90	, ;
<u> </u>	6.01 4.80	*   :  :	14.5	- 1.82	•
,	6.5 4.45 1		15.0	- 1.75	, ,
II >	7.0 4.10		15.5	£ 1.67	
-	7.5 3.75.		16.0 3	<b>- 1.60</b> °	•
	8.0 3.40.			1.56	
•	8.5 3\25	· ;	17.0)	- 1.52	
	9.0 3.10	V .	- 17:5	- 1.49	
	9.5 2.95		18.0	- 1.45	,
ııı	10.0 2.80		18.5	- 1.41	
9,	10.5 2.65		19.0	÷ 1.37	
	11.0 2.50 .		19.5	- 1.34	
	11.5 2.35	<u> </u>	20.0	- 1.30	

	· ·	•	•
. I&II	<i>A</i> .	$\hat{X} = 9.00 0.70$ %	
III		·Ÿ = 5.80 0.30X	
IV		$\hat{Y} = 4.00 - 0.15X$	j
- V ^	• x	V = 2 80 0 0753	v

Resource Category

NOTE: The applicable formula cost allowance per pupil in a particular program in a given unit (elementary) district is obtained by multiplying the computed cost differential times the average cost per pupil in the basic (general) program in grades one through eight. In the high school districts the computed cost differential is multiplied by the basic (general) program in grades nine through twelve.

Formulas for Computing Cost Differentials (Y)



•Further Perspectives of Program Classifications by Resource Inputs

Some further examinations of program costs and cost differentials support the perspective of relating resource inputs to size of instructional units (average number of pupils per teacher). In Table 2 the ranges of pupils per resource category (and instructional unit) are shown as follows:

I--4-6; II--6-8; III--8-12; IV-+12-16; V--16-20.

One perspective of variability is the distribution of programs across these resource categories, as shown in Table 3. The pre-school programs spread across four categories. Three others spread across four categories. The most important cause of this variation can be attributed to numbers of pupils involved.

A companion distribution of pupils is shown in Table 4. Categories I and II, with the smallest class size and highest resource inputs, have only 3.9 percent of all pupils in special programs, whereas they are instructed in 30 percent of the operating programs. Category III, labeled moderate resource intensity, has 8.5 percent of all pupils and one-third of all programs. Category IV, low intensity, has 13.5 percent of the pupils and 19.1 percent of the programs. Category V, mild intensity, has 74.1 percent of the pupils in 17.6 percent of all special-aided programs except vocational education.

An important question arises concerning the possible distribution of pupils not currently enrolled in special programs. According to a sampling of opinion from 30 Directors of Joint Agreement Districts, there are substantial numbers of such pupils. A small percentage would

Table 3

Distribution of Programs by Intensity of Resource Paputs

1973-74

						·
	•	Categorie	s of Inten	sity	,	Total
• • • •	I Very	, II	III A	·IV	<u> </u>	Number
Program	High	High	· Moderate	Low	<del>м119</del>	of Programs
1. Pre-school .	5	6	2 -	/ 2 ,	. 4	15
2. Mult. Hand.	. 1	5	1	/.	•	7
3. Phy. Hand.	2	2	4 -	1	٠ 1	. 9
4. Deaf	3	· 1	•	/	.`	4.
5. Hear. Imp.	6	1	,			، 7 ر
6. Blind	2	•			1	2
7. Partial Seeing	4 -	<b>3</b> .	1			7 .
8. Residential	3		2			5
9. Soc. Adj. Sch.		1 .			•	æ
10. Home-Hospital	1		· 1/			2
11. Land. Develop.	1	*			,	1
12. Brain Injured	1	~			·	1 •
13. Emot. Dist.	. 1	, 2	5			8
14. EMH			, '9 ·	13		· 22
15. TMH	· <u>1</u>	1 '	10	· 4·	,	16
16. Ed. Hand.		2	7	3	·. r '	13
17. Learning Disab.	•	1 ,	16		3—	20
18. Family Mal. Adj.	•			1	•	, * · · · i
19. Speech Corr.		• ,	1	4	14	19
20. Comp. (Title I)		1	4	6.	8	.19
21. Bilingual		•		3	2.	5 ¢
22. Gifted	•		-	-	40	4
Total	. 31	26	62	3,6	33	188
Percent of Total	16.5	13.8	33.0	19.1	17.6	100

Table 4

Proportions of Total School Population in Special Programs

1973-74
ŧ

	. ;	ie.	•					×		•		•	-2	2⊷			• •				٠,			•	•		î L	3		
% of	'Total Pupils	in Dist	14.	12.8		19.			1.4	15.5	16.5	9.6	21.1	19.9	•	11.9	•	18.9	35.8	9	4.10.4	25.8	24.2	13.2	12.2	21.8	,	•	•	
•,	د -	Total	340	454	1,276	1,979	121,032	3,946	. 48	· ,833	1,303	259	1,043	•	878	1,314	386	428	999	1,505	921	545	9,715		•	151 <b>,</b> 649		8	100	
À	ategory	Λ	. 299	240	400	,	94,057	3,059		747	895.		530	433	153,	935 .	147	134	612	. 253		121	8,420	853	. * 02	112,358	16.2	<b>.</b>	74.1	1
	by Resource Category	IV .	٠	1,03,	522	892	14,736	•	÷38		. 05/	26		270	669	178	. 149	235	52		365	370	850	287	149.	20,498	2.9		. 13.5	
,•			30	111.	340	1,004	7,399	270	98.	54	330	199	£.77	306	. 20	145	85	. 52	-	996	513	50	220	269	, 36,	12,868	1.9		. 8.5	
	Number o	ر III	•		,	72	1,748	77	13	22	. 16	7	08	54		. 14		7	ر	148	•		<b>6</b>	\$	3	2,344	0.3		. 1,5	
••	•	(H	. 11 .		14.	11	3,092	43 .		10	12			•	୬	42	Ŋ	,	<b>.</b>	138	43	7	136	11	ო	3,581-	0.5	•	2.4	
\$ ! !	Total Number Pupils	in Dist.	2,406	3,551	6,143	10,275	511,870.	18,650	6,183	7,368	7,909	2,657	4,946	5,341	5,200	11,067	2,491	2,263	1,854	22,658	8,897	2,114	40,07E	. 10,741	2,109	694,764	. 794,769	. 5	rog. 151,649	
,			K-8)	land (K-8)	igton ,, î	, ug		į	Grove (K-8)	ville	ľ.	urg .	ville	<b>.</b>		,	*	: :,	Vernon: H.S. (9-12)		<b>L</b>	ದ '	, ,	Land			ral .	7	iotai in Special Prog. 151,649	
	•	· District	Alsip (K-8)"	Blue Island	Bloomington	. Champaign	. Chicago	Decatur	Downers	Edwardsville	Galesburg	(C) Harrisburg	Jacksonvil	Marion	, Mattoon				Mt. Ver	Peoria	Quincy	Robinson	Kocktord	. Kock island	Vandalia	Total	· % of Total		OT TO Z	•

belong in the moderate category and most would be in the low and mild categories.

Another important question to examine is the extent of non-teaching supportive and auxiliary costs. Table 5 shows the percents of teachers' salaries in each category that comprise added back-up resources respectively in the special programs as compared with the basic (regular) program.

Category I has a total of 17 percent of teachers' salaries above the regular, programs. Category II has a total of 28 percent, III and IV each has 18, and V has the lowest with only 4 percent.

These added components of instructional costs are substantial and provide a basis for consideration if the state decides to retain the present method of additives for different types of personnel.

#### Vocational Education

Vocational education is not part of the central purpose of this study. However, the method of cost analysis used for the designated special programs requires that all programs with special funds be included. These programs are part of the total system and must receive equitable consideration in the allocation of resources. Hence they are included and will be discussed briefly.

There are six major programs (and one pre-vocational), with varying numbers represented in 19 school districts. These are agriculture, home economics, trade and industrial, business and distributive, health occupations, and cooperative-vocational. The costs are developed for each program in the same manner as those of the so-called special programs. All of them

Table 5

Extent of Non-Teaching Supportive and Auxiliary Costs
for Special Education

Program	,		Perce	nt of Teacher	s' Salari	es Ad	ded For		
Categories	3	Academi	c Supportive	Staff	Auxi	liary	Supplies	and	Services
(Ave. No. Pupils per		% For Basic	% For . Special	% Above . Basic	% For Basic		% For Special	• 🐷	% Above Basic
Teacher)	_	Program	Programs '	Program	Progra		Programs	,	Program
				•			•	•	•
I. 4 -	6	30%	40%	10%	39%	. •	46%		7%
II. 6 ÷	8	• 26	50	. 24:	45	,	49		4 .
III. 8 -	12	29	47	18	39 ့		. 39		. 0 .
IV. 12 -	- 16	25 .	41	16	45		47	• •	2.
V. 16 -	- 20	26	27.	, 1	43	•	46 <sub>(</sub>	\	3 .

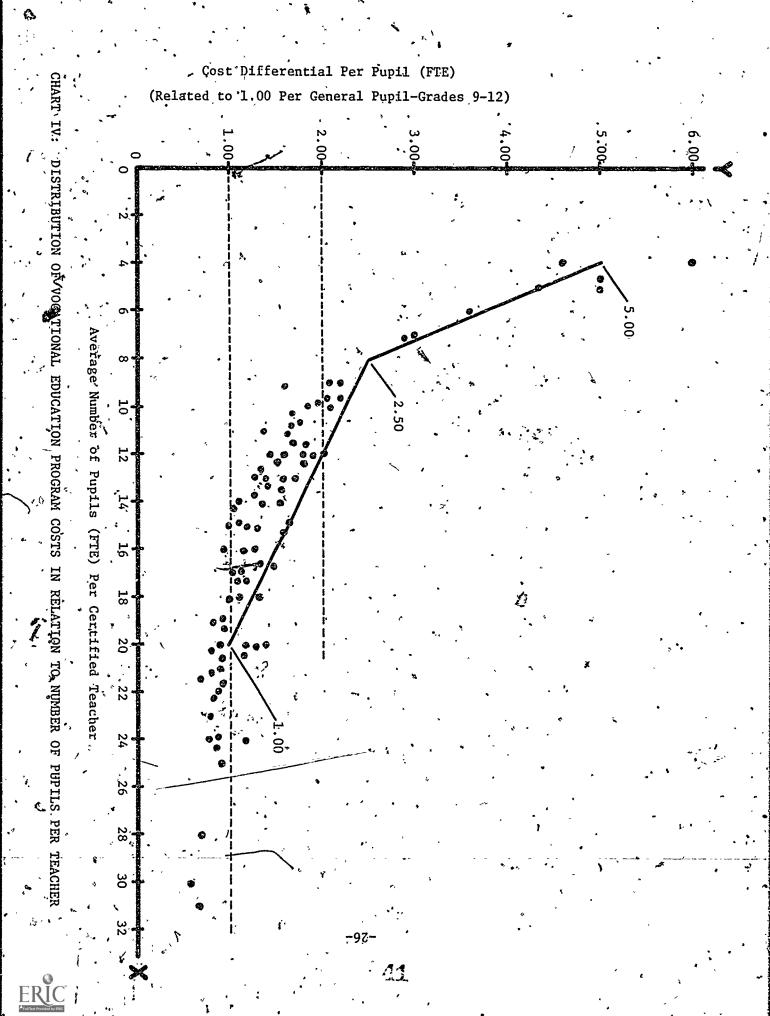
part of each student's load or curriculum. There are a few exceptions of part-time students who attend school in the vocational centers only for vocational work. The total student load of five Carnegie units for the school year is used as a standard for determining pupil equivalents in these programs. Hence, a student in a vocational course that has one unit credit value would be counted as 0.20 FTE pupil in the vocational program and 9.80 FTE in the basic or general program.

Thus the cost differentials are the ratios of costs for the vocational programs for equivalent student load as compared with students who are not enrolled in the vocational programs. Chart IV shows the distribution of all vocational programs according to the cost differential on the vertical axis (Y), and the average number of FTE pupils per certified teacher on the horizontal axis (X).

those for special education. They have characteristics for definition and description. But these definitions are no more suitable for measuring needed resources than are the special programs. Like the others, the vocational programs have a common base of measurement, the average number of students per teacher with supplementary back-up resources.

No attempt is made in this study to define ranges of instructional size and the corresponding categories of resource intensity as illustrated for the special programs. Appropriate divisions could be made and applied easily

The distribution of cost differentials in Chart IV reveals three distinct groups. There are a few programs with less than 9 students per class of very



high cost. The middle group ranges from 9 to 20 students with the cost ranging from twice the regular classes to the same cost (1.00) as regular classes. Twenty-two programs cost less per pupil for the equivalent time in the program than the regular program.

There are certain conditions that seem to explain these wide variations in costs. At the upper extreme the problem is primarily a marginality of numbers of students to establish or to maintain the program. At the lower extreme two conditions are observed. One is definitional, i.e. pre-vocational courses such as typing, elementary bookkeeping, general drawing, and others are included in the data of some districts in this sample. In other words some of what is called vocational is as general as mathematics and science, both in terms of funding requirements and conception of what constitutes basic knowledge and skills. Another condition is that enrollments in some vocational courses have held up, if not increased, while the averages of the regular program have declined in recent years.

There is ample evidence in this analysis to suggest the need for a comprehensive stucy of vocational education. The profile of relative costs as shown in Chart IV indicates a serious sag of vocational education at the low end of the distribution. Much of this sag is due not only to the high student-teacher ratio but also to limited back-up resources. The high cost of instructional materials is mentioned frequently as an important depressant of these back-up costs.

The dark line of fit is drawn more as a benchmark for further study and evaluation of program needs than as a proposal for estimating adequate resources. Table 6 shows the scale of cost differentials represented by the two straight lines.



Table 6

## Alternative Cost Allowances for Vocational Education Programs

### Scale of Cost Differentials ,

Pupil-Teacher Ratio	Cost Differential (Ÿ)	•
- 4.10	5.00 <del>-</del>	
5.0	4.37	
6.0	$$ 3.75 $\mathring{Y} = 7.50 -$	0.625X
7.0	3.12	
8.0	2.50 <del>-</del>	-
9.0		•
10.0	2.25	
11.0	2.12	
12.0	2:00	
13.0	1.87	
14.0	1.75 .≺ Ŷ = 3.50 -	0.125X
15.0	1.62	s
16.0	1.50	,
17.0	1.37	• ••
18.0	1.25	
19.0	1.12	
20.0	1.00	, ,

Table 7 presents the concluding information on vocational programs. This table shows the total costs of vocational programs, the cost of equivalent numbers of pupils (in FTE) for the regular programs, the extra costs of vocational programs above the regular ones, and the net cost to the district after deducting special state and federal funds. Eight districts have negative amounts because the vocational costs are close to or below the amount spent on regular programs.

Table 7

Adequacy of Special Aids for Extra Costs of Vocational Programs

# 1973-74

**	No. Pupil FTE's		. •	Extra Costs Above		
District	in. Course Enrollments	Total Voc. Ed.	Basic Costs	Basic (General)	Special Aids State & Fed.	Costs to Dist.
Blocmington	205	\$ 371,163	\$ 207,255	\$ 163,908	\$ .109,925	\$ 53,983
Chicago	27,701	42,924,447	36,537,619	, 305,541 6,386,828	.5,327,348	1,059,480
Decatur	641	785,361	•	194,359	273,468	•
Edwardsville	437	370,774	390,678	-19,904	50,000	+06·69 <del>-</del>
''Galesburg	538	423,406	464,294	-40,888	.62,000	-102,888
Harrisburg	110	174,644	81,730	92,914	36,607	56,307 🕹
Jacksonville	, 231	212,186	218,988	6,802	46,108	-52,910 9
C1 Marton	, 477	515,315	528,039	-12,724	92,590	-105.314
Mattoon	423	546,319	400,581	145,738	77,430	68,308
Moline	468		533,988	288,261	94,602	193,659
Mt. Carmel	174	209,555	184,440	25,115	30,738	-5,623
Mt. Vernon H.S.	. 624	556,760	677,040	120,280	112,148	-232,428
Peoria	. 297	1,367,232	262,251	1,104,981	255,676	849,305
Quincy	, 151	406,671	159,305	247,366	178,956	68,410
Robinson	157	200,001	180,236	19,765	44,426	-24,661
'Rockford (AVC only)	. 200	929,629	486,000	181,676	166,311	15,365
Rock Island .	269	.620,571	351,314	269,257	105,698	163,559
Vandalia	1.32	152,056	, 147,840	4,216	42,384	-38,168
<b>Total</b>	for 14 Districts with Extra Cost Above Basic	ove Basic -	ć	9,429,925	.6,859,007	
Total Costs under	Total Costs under Basic - in 5 Districts		•	200,598	362,846	
and the second s		•			•	*

#### Methods of Funding

#### Background

Illinois is much like other states in the development of methods to finance public education. The general state aid formula is the instrument to provide most of the funds. The special aids are add-ons that have grown up through the years as responses to special needs which the general formula did not seem to accommodate adequately.

Knowledge is available to consolidate all special aids and provisions into a comprehensive general formula to provide a measure of the variable costs of a school population with diverse educational needs. The crucial question which Illinois and other states face is: Do the advantages of consolidation outweigh the advantages of retaining separate procedures?

Hopefully this study may help to answer this question or to improve the present method in use by whatever procedures may be adopted. Before we present the alternative funding patterns to be discussed it may be helpful to examine the result of the present funding method.

Table 8 presents a summary of the adequacy of special funding proce- of dures in Illinois to meet the extra costs entailed in special programs.

The general state aid formula provides funds on a gross per pupil count for those in special programs equal to the amount per regular pupil. The special funds are bit-by-bit add-ons to the basic or general funds.

In this sample of 23 districts there are 151,649 pupils who receive instruction and related services in 22 organized programs which receive special funds for extra costs in addition to the basic or regular programs. The total extra costs of these programs in these districts amount to



-32-Table 8

#### Adequacy of Special Aids For Extra Costs of Special Programs

1973-1974 (\$ in Thousands)

	<del>-</del>			· .	,	<del></del>	•
٠	· v	N- C. D1	P	Spe	cial Aids	<u> </u>	Net-Extra
	District	No. Sp. Ed. Pupils (FTE)	Extra Costs to Dist.	State*	Federal	Total	Costs to
	Alsip	340	\$ 143	\$ · 65	\$ 0	\$ 65	\$ <sup>.</sup> 78
	Bloomington \	1,276	684	365	. 80	445	239
•	Blue Island	454	296 - `	182	• 74	° 256	40
	Champaign	1,978	1,751	, 559	256	; 815	936 •
	Chicago	121,032	111,633	20,612	33,701	54,313	57,320
	Decatur	3,946	2,057	434	822	1,256	801
	Downers Grove	. 87	114 •	215.	10	225	° -111
	Edwardsville	833	413	188	66	. 254	159
	Galesburg	1,303	464	184	104	· 288	` 176 ·
	Harrisburg :	. 259	້ 182	41.	93	. 134	48
	Jacksonville	1,044	631	158	94	252	` 379
	Marion '	1,063	674	270	118	388	286
	Matteen	878 .	394 •	106	74	<b>180</b>	214
	Moline	1,314	816	189	155	344	.472
	Mt. Carmel	- 386	207	80	28	108	: •99
	Mt. Vernon - Ele	em. 428	. 271	83	119 `	202	69
	Mt. Vernon - H.S	664	. 23	41	. 47	* 88	<del>-</del> 65
	Peoria	1,505	1,491	1,049	1,018	2,067	-576
*	Quincy	921	896	280	. 79	359	537
	Robinson	545	151	34	26	60	91
	Rockford	9,71.5	4,614	1,029	816	1,845	2,769
	Rock Island	1,420	589	146	251	397	<b>/192</b>
	Vandalia	258	115	40	57	. ' _97	. 18 .
	Totals	151,649	128,609	26,350	38,088	64,438	64,171
	Percents	,	100	20	30	., 50	50
			/			5	

\*Entitlements for 1973-74 but received in 1974-75.



\$128,609,000. Twenty percent, or \$26,350,000 of this total is provided from special state aids. Thirty percent, or \$38,088,000, is provided from special federal funds. The other half of the extra costs is drawn out of general funds available to the local school boards.

According to these computations Downers Grove, Mt. Vernon High School, and Peoria districts receive slightly more in special funds than necessary to meet the extra costs of these programs.

If Chicago is excluded, because of its size, the picture in this sample changes. Among the remaining 22 districts the state provides special runds amounting to 34 percent of the extra costs and the federal government provides 26 percent, a total of 60 percent. Even among this group the net extra costs drawn from general funds available to local boards and allocated to special programs amount to 40 percent of the total. This method applies to the direct instructional costs as discussed at length in this chapter. The categories of public services and capital outlay are excluded. These methods are designed for funds to go to the district of the pupil's residence, the district with responsibility for operating programs or making arrangements for instruction in other districts or agencies.

Method 1: Full State Funding of Extra Costs

This method is based on the fact that the prevalence of need is , unrelated to the local district's tax ability to support a statewide responsibility. Children of varying needs, and costs, are not evenly distributed among districts. Thus, state assumption of these variable costs would be the most direct and simple method to equalize this portion



of the total educational need. In Chicago the extra costs are provided as follows: 18 percent from special state funds, 30 percent from federal funds, and 52 percent out of general funds available to the Chicago Board of Education.

The following provisions would be necessary to implement this method:

1. Establish a formula representing a scale of cost differentials, applicable to all special programs, based on the unit value of 1.00 for grades 1-8 or other designated segment of the school, and related to the average size of instructional groups defined as appropriate to the needs of pupils. The type of formula for this purpose is illustrated in Chart III, with the computed scale of cost differential values illustrated in Table 5. The total allowable cost by the formula would be the product of the cost differential times the average per pupil cost in the basic (regular) program in grades 1-8. The extra cost would be the difference between the total computed cost and the basic amount.

The formulas in this study are based on the unit value of 1.00 for the basic (general) program in grades 1-8. The computational base applicable to the cost differential and the subtrahend for determining extra costs in separate high school districts is the high school basic (general) cost divided by 1.25, the present weighting of high school pupil units in the general aid formula.

2. The local district, or other operating unit, would have freedom to provide a variety of instructional patterns ranging from self-contained groups for the severely handicapped to total mainstreaming with supplementary instruction in tutorial and small group arrangements.

- 3. The State Board of Education would be authorized to define instructional units of appropriate size and range in number of pupils as a basis for general information and accountability, and as a basis for computing extra costs of approved programs.
- 4. The principle of stability would be applied in the following manner: The average size of the instructional unit would be used for computing cost differentials to determine extra costs. Thus, the loss or gain of pupils within the established range during the year would not affect the amount of funds available to support the instructional unit.
- 5. These formulas are designed to include a sufficiency of overhead expenses of administration and supervision in the Joint Agreement Districts.

A comparison of illustrated formula allowances with actual extra costs is shown in Table 9. The total extra costs amount to \$128,609,000. The formula allowances equal \$108,446,000 or 84.3 percent of the actual amount. This figure is 34.3 percent above the present special aids (shown in Table 8).

It should be emphasized that the formulas can be adjusted up or down to reld more or less than the 84.3 percent shown in this illustration. The formulas do not have to be fixed to yield an amount equal to a particular appropriation each year. They could be set at a level higher than this requirement and used as a basis for allocating any appropriated sum.

Table'9

# Comparison of Actual Extra Costs With Formula Estimates All Special Education Programs

1973-74 (\$ in Thousands)

•				<u>·</u>
District ,	Actual, Extra Costs	Formula Estimates	Difference	Amount of Formula Estimates Above Present Aids
Alsip	\$ .143	\$ 166	\$ 23	\$ 101
Bloomington .	684	1,247	563 ቆ ່	802
Blue Island	296	303	. 7 <sup>2</sup> 4	`47
Champaign	1,751	2,840	1,089	2,025
Chicago.	111,633	· 86,958	-24,675	32,645
Decatur	2,057	2;189	132	933
Downers Grove	, 114 = '	138	24	87
Edwardsville-	. 4i3 .	341 *	,-72	.87
Galesburg	464	• • • • • • • • • • • • • • • • • • •	403	, 579
Harrisburg .	182	262	80 ه	128
Jacksonville	631	839	208	587
Marion	674	886	212	. ° 498
Mattoon 1	394	532	, 138 -	352
Moline ( )	, 816 ³ °	910 /	94	566 .
Mt. Carmel	207	292	90	189 .
Mt. Vernon - Elem.	271	260	-11	58
Mty Vernon - H.S.	· 23 ·	2 118	95	*30
Peoria	1,491	2,572	1,081	505
Quincy .	896	. 874	<b>–</b> Ž2	515
Robinson	151	293 1	142	233
Rockford-	4,614	4,495		2,650
Rock Island	589	. 905	316	508
Vandalia •	115	154	39	57
Totals	128,609 :	108,446	•	
Percent* :	100	84.3	• a	34.2

Method 2: Full Cost Allowance in the General State Aid Formula

This method, like the first one, applies only to direct instructional costs. Assuming that the provisions for defining average size resource. (instructional) units are the same as those in Method 1, the two methods would yield the same results for all districts below the critical levels of local taxable wealth for equalization.

For those districts above the critical wealth levels for equalization aid, special aids would have to be considered on some basis such as a flat grant, or a percentage of estimated total extra cost.

The choice between these methods rests on a fundamental state policy of equity. If Illinois maintains the present policy of limiting the input from local tax scurces associated with a guaranteed expenditure level (\$1260 at present), future increases of the expenditures will be a largely full state funding.

The present special aids are distributed by procedures which do not take local tax ability into account. Thus if this method were adopted, non-equalization aid districts would either be denied special aids or some "grandfather" provision would be required to ensure a continuation of special aid to non-equalization districts. If the present policy is continued, these conditions argue scrongly for the simpler and more direct approach of Method 1.

Method 3: Categorical Resource Component Allowances

This method is the type in use at present in Illinois. The procedure depends in principle on the definition of a special program and the

instructional load of a certified teacher. In addition there are guidelines to provide additional aid based on supportive or service staff.

This method, as used at present, can be improved by defining more completely the personnel and material components of instructional units for various groups of pupils in accordance with their needs. This purpose requires new information, in fact the same information system as previously discussed for Method 1.

The information that would be required to improve the present method, but maintain the principle of bit-by-bit component parts, would be essentially the same as discussed for Method 1. The reason for this is, as this study demonstrates, extra costs of special programs are not solely the result of adding "special" teachers. These costs result from greater staff input of teachers and other personnel of all types, so-called "regular" and "special."

.Summary

The financing of special education is presented in this study within the context of the total system. The present method of providing special state and federal aids taken out of context gives at best only a partial view of what the schools are trying to do, and no basis for judging the adequacy of resources available to them.

A method of cost analysis is demonstrated to measure the differences among districts in prevalence of exceptional needs of pupils that require some extra costs as compared with "regular" pupils whose needs can be met at costs on an average per pupil basis. The problem of financing special programs of all kinds that have become defined in relation to earmarked, state and federal aids should be viewed as part of the larger issue of measurement of educational need of the total system.

Illinois is a part of the national commitment to education as the fullest possible development of every individual. Start them early, move them along as best they are capable, and provide opportunities to keep them growing throughout life. This is the essence of the American commitment. Terms like pre-school education, early childhood education, vocational education, inservice education, adult and continuing education, and similar ones are only segments of the total picture focusing on a particular group or a stage of human experience.

The growth potential of the public schools to meet this commitment
lies in coping with the diverse needs of individuals. These needs cannot
be met by present methods of instruction merely by reallocating present



resources. They may require some reallocation, but also increases in resources will be needed for which no measures of quantities are available.

There are certain areas that will require special attention. The first is early childhood education. The age of entrance into appropriate schooling must be lowered. There is sufficient evidence from research and experimentation to show that the most critical years of educational development are from birth to about age nine. These are the years when problems grow, intensify, and then persist throughout life, unless prevented or corrected by proper diagnosis and treatment at the right time.

The second area is the broad range of handicaps and exceptionalities among pupils whom the schools are not giving adequate help. This area is posed in Chart I as the future development of a totally adaptive school system.

The third area of identification is vocational education. The data in this study suggest that this field may need a re-evaluation of its programs and resources.

The focus of this study is on 22 special programs in 23 school districts.

The sample is considered adequate to assess the nature of special education, to understand the direction of future developments, and to consider financial policies.

To recap the picture in simple statistics we find the following in these 23 districts in the year 1973-74: There are 694,764 students in preschool programs, kindergarten and grades 1 through 12. Those in pre-school and kindergarten half-day programs are counted in full-time equivalents (half of enrollment). Of this total, there are 151,649 pupils (FTE's) in 22 special programs.

If Chicago is excluded because of heavily weighting the average of this sample, the number of pupils in special programs drops to 16.7 percent of the total. The state average is perhaps somewhere between this figure and 22 percent.

Among the pre-school age children 0.5 percent are in head start or , equivalent type programs. A small fraction of a percent, 751 children, are in pre-school programs for the handicapped. This is the category of children most urgently in need of diagnosis and treatment from birth.

A further delineation may be helpful by separating three programs, the compensatory (mostly federal Title I), bilingual, and gifted which constitute.

13.8 percent of the total population in this sample. This leaves those who traditionally have comprised the "handicapped" group as 8.0 percent of the total population in the sample.

Another important consideration is the distribution of teachers who have responsibility for instructing these children. Among this group with 19 programs just mentioned as comprising 8.0 percent of the total population, 19 percent of the teachers are "regular" ones, while 81 percent are those with special certification and classified as "special." If we consider the 16,888 pupils in speech correction, consisting of the low and mild handicaps, their teachers consist of 73 percent regulars and 27 percent specials. Remove this program from consideration and the "regular" teachers consist of only 6 percent for the remaining 18 programs of greater handicap and resource inputs.

Thus speech correction and the three programs of compensatory, bilingual, and gifted programs have teaching staffs composed of about two-thirds "regular" and one-third "special" teachers. This combination may give a



close approximation for estimating additional resources for unmet pupil needs, recognizing that there are substantial numbers of children who belong in programs of higher resource intensity than these.

A special sample of 97 elementary and 43 high school "regular" teachers reported their need for special help in teaching one pupil out of six assigned to them. They ranked the needed specialized help in this order: social workers, psychologists, speech therapists, and teacher aides.

The conclusions from these staffing patterns are:

- The responsibilities for dealing with individual differences are shared within the system and not limited to any specially designated group of staff members.
- 2. Funding procedures which are based on particular roles or staff .

  categories include only part of the resource inputs.

An important caution should be stated in connection with these summaries. These data do not reflect the total treatment of pupil exceptionalities in these districts. There is no basis for estimating beyond the designated programs. On the other hand common knowledge confirms the existence of a great variety and depth of approaches to individual differences.

The summary of financing these programs is as follows: The total extra costs of 22 special programs in these 23 districts, above the basic costs equivalent to regular pupils, amount to \$128,609,000. Twenty percent, or \$26,350,000, of this total is provided from special state aids. Thirty percent, or \$38,088,000, is provided from special federal funds. The other 50 percent is drawn from general funds available to local school boards.

Three alternative methods of financing special or designated programs are submitted for consideration in state policy deliberations. These are



-43- p

(1) full state funding of extra costs, (2) full cost allowance in the state aid formula, and (3) categorical resource component allowances (the present method in use in Illinois).

The general question of adequacy of financial support of special programs is not addressed in this study for necessary resources beyond the comparative level of the basic or regular programs. After the state meets the needs for extra costs of these programs any further test of adequary will be relative to the support of the basic or regular program.

#### CHAPTER II

## SPECIAL EDUCATION SERVICES PROVIDED BY STATE AGENCIES Robert A. Burnham

This section of the report is concerned with the roles of various state departments and agencies in the special education domain. The objective of this aspect of the study is to identify and inventory the direct and indirect educational services provided and/or funded by various agencies in the State of Illinois. There are three main subsections that elaborate on this portion of the study: the first is a general introduction to determine what are the state agencies' roles, the second is a description of their involvement, and the third summarizes the interrelationship of the state-level services.

#### Introduction

Seven state agencies are identified with some responsibility for special education services or funding in one form or another. These are the Departments of Mental Health, Children and Family Services, Corrections, Public Aid, Public Health, Vocational Rehabilitation, and the Illinois Office of Education.

This portion of the study was designed to obtain two types of information by questionnaire: (1) the number of exceptional children (ages 3-21) being provided direct and indirect educational services, and (2) the dollar expenditures involved for FY\* 72 through FY 75. Although the Department of Children and Family Services, and the Illinois Office of Education were able to respond in part to the questionnaire, the form of agency data

<sup>\*</sup>This term means fiscal year ending June 30, 1972

did not lend itself to reporting in the categories requested without additional assumptions and extensive recalculation by respondents.

Apparently, State agencies do not centrally collect and summarize program oriented data except in a most general "bottom line" way: After incorporating suggestions of agency personnel, a second questionnaire (characterized by its utter simplicity) was developed. Data were sought on FY 75 only for the number of children served and dollars expended for administrative and instructional salaries, and for instructional materials and supplies. It appeared that even this simplified information could not be obtained at the department level. For instance, data on direct educational services provided by the Department of Mental Health were reported on questionnaires completed by a number of the 21 various zone centers and facilities under the agency's direction. These data were not available in the Department's central office.

State Agency Involvement in Special Education

#### Overview

This section presents a general overview of these agencies, followed by a detailed description of each one.

The State Board of Education is the primary state-level entity in the special education field. In addition to approximately \$160 million in general state aid distributed to handicapped children under the jurisdiction of this Board from the common school fund, the state finances special education through a variety of categorical reimbursement and grant-in-aid programs to individual school districts, consortia, and other agencies. There are about \$115 million in categorical special education appropriations for FY 75.

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The Department of Mental Health provides considerable support to programs for handicapped children. Although the former is frequently cited as spending over \$13 million for day care of handicapped children, we are able to identify only \$1.5 million specifically targeted on handicapped children in community day care programs, plus \$2.8 million for specific special education services to the handicapped at facilities and zone centers of the Department of Mental Health.

The Department of Children and Family Services operates three schools\* for the handicapped in FY 75 at a cost of \$7.6 million in services to blind, deaf, and crippled wards of the State. Day care programs under this Department also provide an estimated \$3 million in educational services.

The other State agencies listed previously. Corrections, Vocational Rehabilitation, Public Health, and Public Aid provide only nominal special education services.

<sup>\*</sup>Illinois Braille and Sight Saving School, Illinois School for the Deaf, and Illinois Children's Hospital School

The State Board of Education

The State Board of Education, of course, carries the major responsibility for providing support for special education services in Illinois. In FY 75 the following programs and dollar amounts constituted the array of special education support administered by the Illinois Office of Education and channeled primarily to local school districts through reimbursement programs. The expenditure figures include supplemental appropriations for FY 75 added to the requests for FY 76. This categorical support is over and above the general state aid distributed to handicapped pupils on a WADA basis estimated at \$160 million.

The various state supported programs funded under the jur'ndiction of the Board are as follows:

 Personnel reimbursement for necessary staffing of special education programs and facilities. The State provides \$6,250 per professional worker and \$2,500 per paraprofessional, authorized under 14-13.01 of the School Code.

FY 75 expenditures - \$69,225,000 est.

Pupils served -- 270,000 est.

2. Transportation of Handicapped Children. Basically the State reimburses 80% of the cost of transportation for such children. School Code 14-13.01

FY 75 expenditures - \$22,348,000\*

Pupils served -- 50,000



<sup>\*</sup>Reflects an audit adjustment increase of \$1.5 million for special education transportation claims by the Chicago Public Schools included in FY 75 supplemental appropriations.

3. Special Education Building Program. The State provided qualifying districts \$1,000 per professional special education worker for facilities construction. School Code 14-13.02. (Pending legislation proposes to transfer special education facilities construction to the Capital Assistance Program.)

FY 75  $\pm$  expenditures - \$9,658,000

Pupils served -- not available

4. Tuition Reimbursement for Children Attending Private Special Education Facilities. The State (School Code 14-7.02) authorizes \$2,000 maximum per pupil with \$600 from the local district and \$1,400 from the State.

FY 75 expenditures - \$8,700,000 est.

\_ Pupils served -- 6,600 est.

5. Reimbursement for Extraordinary Public School Services and Facilities for Handicapped Children. (School Code 14-7.02a) The State authorizes \$2,000 maximum per pupil.

FY 75 expenditures - \$2,324,000 est.

Pupils served -- 2,122 est.

The State provides full reimbursement for the provisions of special education services. (School Code 14-7.03)

FY 75 expenditures - \$2,075,000 est.

Pupils served -- 3,100 est.

7. Occupational Education for the Handicapped Secondary School Pupil.

This is a joint state-federal program administered by the former



, a

Department of Vocational and Technical Education.

FY 75 State expenditures - \$2,000,000 est.

Pupils served -- not available

S. There are relatively minor programs providing traineeships and scholarships to approximately 175 prospective special education teachers under Article 30 of the School Code amounting to \$500,000 in FY 75, and funds for acquisition of special education instructional materials estimated at \$200,000.

Federally funded programs operated under the jurisdiction of the Board are as follows:

- 9. Program for the Educationally Disadvantaged. Title I, ESEA;
  PL 89-10. The amount available to handicapped children is unknown.
  - FY 75 expenditures \$84,060,000\*
- 10. Programs for (a) the neglected and delinquent and (b) migrant children are funded under Title I, ESEA; PL 89-750.

FY 75 expenditures - \$1,396,400\*

11. Programs for Handicapped Children in State Operated Institutions.
Funded under Title I, ESEA; PL 89-313.

FY 75 expenditures - \$5,479,400\*

12. Occupational Education for the Handicapped Secondary School Pupil.

(Estimated federal share of Item 7)

FY 75 expenditures - \$1,200,000 est.

13. Title III and Title VI, ESEA also provide monies for the support of programs for the handicapped child. Specific amounts and number of pupils served are not ascertained.

All of these funds are summarized in Table 10.



 $<sup>\</sup>epsilon$ 

Table 10 .

Illinois Special Education Support Programs

	_	Ap	pro	priatio	ons (in 000's	3)
Special Education Program		Act	_		Estimated	Budgeted
.,		FY 73		FY 74	FY 75	FY 76
Personnel Reimbursement	\$	65,750	\$	58,500	\$ 69,225*	\$ 97,500
Transportation of Handicapped		NA		15,728	22,384*	25,000
Special Education Building		6,850		8,038	9,658*	
Tuition Reimbursement- Private Facilities		5,237	•	7,000	8,700	7,000
Extraordinary Service- Públic Schools				olo tro-del Tio dip cal	2,324*	2,500
Orphanage Tuition Claims					2,075.	3,500 /
Special Education Traineeships		500		489	500	250
Special Educational Equipment and Materials	_	160		188	200	200
Total State Support	\$	78,497	\$	89,943	\$115,066*	\$135,950
Federal Support Title I, ESEA (combined)	\$	61,567	\$	76,144	\$ 76,144	\$ 86,181

Source: Governor Walker's Accountability Budgets for Illinois for FY 75 and FY 76.

<sup>\*</sup> Includes FY 75 supplemental appropriations.

The Department of Mental Health and Developmental Disabilities

The Department of Mental Health makes an important contribution toward the provision of special education services in the State of Illinois. Its total FY 1975 appropriation was slightly more than \$347 million. Approximately \$106 million was allocated for Developmental Disabilities and \$121 million for Mental Illness (An Accountability Budget for Illinois: FY 1975, p. 29). Exactly how much of this appropriation was spent specifically on special education or education in general is a central question which this study cannot answer.

Residential treatment and intensive rehabilitation services are offered by this Department to approximately 15,000 people in its 27 institutions, which are located in seven geographic regions. Since the focus here is on special education services to persons under the age of 21, only 19 hospitals and zone centers (out of the 27 in total) appear to have programs germane to this study. This Department also supports a broad range of community operated facilities, serving upwards of 90,000 people this year. This Department provides services to special education as follows:

- 1. Community support programs, such as state grant-in-aid program for Community Day Treatment Centers.
- Educational programs at mental health hospitals, zone centers, and facilities. These are funded out of general State revenue and Federal funds (Title I, ESEA; PL 89-313).
- 3. Programs for the handicapped, including the deaf-blind, funded by Federal programs, e.g., Education of the Handicapped, Title VI, Special Education component included in Item 2 above.
- 4. Interim care grants.



The first two service programs mentioned above will be analyzed in more detail:

- 1. Community Support Program: One component of the Department's community based program involves Community Day Treatment Facilities which provide special education services, among others, in several areas of the state. In FY 75 there are some 27 Community Day Treatment Programs. Fifteen of these involve grants to private community facilities for special education services to a total of 840 handicapped children. There are nearly \$2.5 million in state monies awarded to the 27 community programs, including \$1,518,661 awarded to the 15 community facilities listed in Table 11. This table also shows the number of teachers employed at each facility and their instructional salaries.
- 2. Special Education Services at Department Facilities: Some 19 hospitals and zone centers operated by the Department provide services to handicapped children. In FY 74 there are 5,499 children served. The majority of these children are classified as subtrainable mentally retarded or as emotionally disturbed. For purposes of gathering, information on these services, the definition of special education is narrowed to those developmentally disabled and mentally ill children who can be given classroom instruction or vocational training. This definition largely excludes the severely and profoundly retarded, since the "education" they receive is difficult to separate from custodial care. We believe the data reported in Table 11 cover clients of the Department who are educable or at least trainable.

Since fiscal information in the central office of the Department consists only of aggregate dollar amounts that are not identified with specific functions such as special education, it was necessary in this study to seek

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Table 11

Department of Mental Health Grant-In-Aid Awards . Community Day Treatment Programs

# Fiscal Year 1975

			*		•	•	-53			*						· ·
\$ 65,355	442993	184,975	, 20,000	13,492.	`52,00 <u>9</u>	114,600	54,793	67,790	63,249	16,942	62,500	10,650	35,700	25,320	\$ 832,368	
1,4	9.	20.		1	5	1.5	7	, 6	&	2 , °		4	ຸ່ <b>ເ</b> ກ	K Justin		•
\$ 50,000	48,200	182,000	48,500	63,066	147,000	0 14,500	180,800	122,908	185,250	150,000	24,000	3081,66	49,030	100,227	\$1,518,561	•
20	125	. 69	To :	29	06,	55	55	. 95	. 89	100	75	33	. 15.	•	840	63
,Rimländ	. Infant Welfare Society "	STEP, Inc.	Larkin Home for Children	Loyola University Guidançe Center & Day Care	Christopher House	Jeanine Schultz	South Central Community	Potential School	Beacon Therapeutic	oak Therapeutic	Positorium.			Children's Center for Behavic Development	Total	
	20 \$ 50,000	re Society 125 \$ 50,000 6 14 \$	re Society 125 \$ 50,000 6 14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	re Society . 125 . 42,200 . 6  for Children 10: 48,500 ,2:	20 \$ 50,000° 14 \$ 125 42,200 6 69 182,000 20 10 48,500 ,2 6are 29 63,066 1	re Society . 125 . 42,200 . 6 for Children 10: 48,500 . 20: reity . 125 . 48,500 . 20: reity . 10: . 48,500 . 2: House 90 . 147,000 5	re Society . 125 . 42,200 . 6  for Children 10: 48,500 . 20: 182,000  reity . 10: 48,500 . 20: 1  reity . 21  House 90 . 91  ltz = 55 . 74,500 . 15	re Society	re Society . 125 \$ 50,000° 14 \$ 50,000° 6 6 69 . 182,000 20° 20° 20° 20° 20° 20° 20° 20° 20°	re Society       20       \$ 50,000°       14       \$ 65,355         re Society       125       \$ 65,355       \$ 44,993         for Children       10       48,500       20       184,975         restry       29       63,066       1       13,492         House       90       74,500       5       52,009         1tz       7       74,500       15       114,600         1 Community       55       180,800       7       54,793         thool       68       185,250       8       63,249	20   \$ 50,000	20 \$ 50,000	20 \$ 50,000	125 \$ 50,000	re Society . 125	re Society . 125 \$ 50,000' 14 \$ 65,355  for Children 105 \$ 48,500 6 6 44,993  for Children 10 10 182,000 20 184,975  regity

Source: Department of Mental Health, Chicago

further information in the 19 zone centers and hospital facilities having special education programs. Thirteen of the facilities responded by the date of this report and the information they provided is summarized in Table 12.

Expenditures for Special Education 'at .

Thirteen Facilities or Zore Centers 1

Department of Mental Health FY 75

Expenditure Category	State Funds	Federal and 2	Total
Instructional Salaries	\$2,097,332	\$634,714	\$2,732,046
Instructional Materials and Supplies	. 43,562	22,676	66,238
Total Instructional	\$2,140,894	\$657,390	\$2,798,284
Number of (headcount) Per capita instruction	clients served	2,389 \$11,713	

It should be noted that the Title I, ESEA funds listed in Table 10 are monitored and evaluated by the Illinois Office of Education through its Program Review and Documentation Unit, Department for Exceptional Children. The FY 74 annual evaluation report, entitled State of Illinois Report on Title I, Public Law 89-313 (Springfield, Illinois, OSPI, 1974), represents.

A. L. Bowen Children's Center, Anna State Hospital, Chester Mental Health Center, Dixon State School, Elgin State Hospital, Galesburg State Research Hospital, Jacksonville State Hospital, Kankakee State Hospital, Lincoln State School, McFarland Zone Center, Timley Mental Health Center, Warren G. Murray Children's Center, William W. Fox Children's Home.

Title I, ESEA and DVTE monies primarily.

an excellent descriptive evaluation of Title I programs for the handicapped in state-supported schools. The report also points up the parallel delivery of services through public and non-public agencies since these handicapped programs are operated by the Department of Mental Health, Department of Children and Family Services, and non-public consortium arrangements. Federal funds for programs for the handicapped in state institutions (Title I, ESEA; PL 89-313) amount to \$5.4 million in FY 75.

The Department of Children and Family Services

This Department serves as the state guardian for over 26,000 children, including some handicapped individuals. This department operates four schools to educate and rehabilitate blind, physically handicapped, deaf, and emotionally or socially maladjusted children. The Braille and Sight Saving School at Jacksonville, Children's Hospital School in Chicago, School for the Deaf in Jacksonville, and the Soldiers' and Sailors' Children's School at Normal, respectively, serve these handicapped children.

Additionally, about 50 children are served at three State funded facilities: Maryville Facility (12), Southern Illinois Childrens' Services Center (12), and at Herrick House (25). TY 75 expenditures for these three facilities amount to \$863,000.

In FY 75 there is also \$6,873,600 allocated for purchase of "day care services" a portion of which (an unknown dollar amount) is expended for out-of-home care, counseling, and therapy for handicapped children.

The consolidated data for all services of this Department to children ages 5-17 inclusive for a four year period, and the direct educational services being provided to handicapped children at three of its schools are shown in Table 13.



Table 13

Services Provided for School Age Children by the

Department of Children and Family Services

	Number Ser	ved and 0	perating Ex	penditures
	,	(Fisc	al Year)	
	1972	. 1973	1974	1975
Total Number of Children (Ages 5-17) Served by the Department	20 ,0 <u>1</u> 4	17,219	18,306	17,900
Number of Handicapped Children Served in Three Schools*				•••
Operated by the Department	. 772 T	773	806	771
Total Operating Expenditures of these Schools (Thousands)	\$ 6,647	\$ 6,699	.\$ 6,770	\$ 7,608 .
Average Annual Cost per Child at these Schools	\$ 8,610	\$ 8,666	\$ 8,399	\$ 9,868.

<sup>\*</sup>Illinois Braille and Sight Saving, School, Illinois School for the Deaf, and Illinois Children's Hospital School.

Source: Department of Children and Family Services, Springfield.

It is estimated that there are between 2,000 and 2,500 children under 21 served by the Department of Children and Family Survices, including the 800 or so handicapped children mentioned earlier. The vast majority of the funding for these programs is from state general revenue. However, there are six funded Title I, FL 89-313, projects in FY 74 serving about 400 emotionally disturbed, crippled, or deaf children at departmental schools and facilities.

According to this Department, the remainder of the total group of children under its care attend public school: where their attendance is reported through local school districts. The Department occasionally places some of its handicapped wards in private facilities with the expectation that the local school district will pay the tuition. When the local district is unable or unwilling to pay the tuition, the Department must, by court order, cover the extra cost. The aggregate cost of such contingencies is unknown.

#### The Department of Corrections

This Department through its Juvenile Division operates educational programs at ten youth camps and/or centers across the State for about 1,000 juvenile offenders. What proportion of the program is targeted on emotionally and socially maladjusted and educationally disadvantaged youths is not reported. The Department currently does not provide diagnostic services for incoming wards to identify special education needs. There are, however, Title I, ESEA projects for 893 neglected and delinquent children at 13 Department of Correction facilities totaling \$536,899 in FY 1975. A similar series of projects serve 808 children in FY 74 for a budget allocation of \$490,817.

#### Division of Vocational Rehabilitation

This agency, operating under the Rehabilitation Act of 1973, does not appear to participate directly in the provision of special education services. The Department's <u>Statement of Policy for Use of DVR Monies</u> states that "no .

DVR funds can be expended for any aspect of the 'traditional' academic program; subsidizing the salaries of certified academic personnel or the purchasing of educational materials necessary for the teaching of academics."

Nonetheless, the Secondary Work Experience Program of this Department has an FY 75 budget of \$2.3 million and \$1.9 million of this is reportedly allocated for servicing some 7,000 clients in the Illinois public schools. Most

of the Department's money is from federal sources (80% in FY 75). If a more refined accounting and reporting system were available we might determine what proportion of the Department's total expenditures reached the handicapped child target group. For example, the funds are used to pay pupil salaries, subsidize employers, and cover wages of non-academic supervisors involved in realistic work experiences. Special education pupils are appropriate recipients of such benefits. The Department also will pay transportation costs to and from the job of pupil-clients in the work experience program. A local school district may be reimbursed for 80 percent of the cost of transporting special education pupils in the rehabilitation program and the Department will cover the remaining 20 percent. The dollar amount of such service is not determinable.

### Department of Public Health

Only indirectly, through its vision and hearing screening program, does Public Health provide "special education" services. The immunization program which provides vaccines to local innoculation centers provides some incidental benefits to handicapped children.

### Department of Public Aid

This department has no impact on special education, except indirectly through its Medichek and Medical Assistance Programs. Both programs provide state and federal monies for medical screening and care for clients eligible under the program for Aid to Families with Dependent Children.

Office of Child Development -- Department of Health, Education, and Welfare

An additional source of educational funds is the Federal Head Start Frogram for pre-schoolers. Although Head Start is considered outside the



scope of this study, it does provide assistance to mildly handicapped children and aids in early identification of disabilities.

Non-public Special Education Facilities

The State also is involved in funding private special education facilities which serve children with particularly severe and low prevalence disabilities. Profoundly handicapped youngsters who cannot obtain appropriate care and education in public schools or public institutions are placed in private facilities. These non-public facilities may receive tuition payments from several sources: Tuition Reimbursement for private facilities (14-7.02), Orphanage Act claims (14-7.03) representing state dollars, federal money through Title I, ESEA (89-313), and from several agencies, e.g., the State Board of Education, the Department of Mental Health, and the Department of Children and Family Services.

Commencing in FY 74, Title I, ESEA (89-313) funds for handicapped children in state institutions could be paid out by Illinois Office of Education to private day care centers which were part of some 14 consortium arrangements set up around the State. These facilities have to be receiving state funds under Section 14-7.02 and be in compliance with promulgated rules and regulations of the State Board of Education covering facilities for handicapped students. Thus, the overlap in funding is a necessary condition for Title I support. As of FY 74 there are 14 consortia projects funded under PL 89-313 in a total amount of \$2,032,718. Twelve of these 14 groups reportedly serve slightly over 2,000 children, chiefly between the ages of 3 and 12. Three-fifths of the children are classified as subtrainable mentally retarded. See State of Illinois Report on Title I, PL 89-313 (Springfield: Illinois Office of Education, 1974)

The overlap in private facility funding through the Department of Mental Health and the Illinois Office of Education raises some serious questions concerning functional effectiveness. Virtually all of the 120 facilities supported by the former department grants also receive reimbursement from the Illinois Office of Education under the tuition reimbursement program (14-7.02). Once again, in the absence of a reporting and accounting system that would provide information such as identification of clients, an unduplicated count of persons receiving services, and a reporting of the allocation of funds that would identify the pyramiding of support, the picture is vague and incomplete. The problem of consistent and accurate reporting by governmental agencies is minor when compared to the accounting and reporting problems associated with myriad private facilities banded together in consortia.

#### Summary

It is frustrating to attempt a description of the scope and magnitude of special education services provided across the State of Illinois by various governmental agencies. While some fairly reliable data on fiscal resources in an aggregate sense can be gathered, the figures on clients served (and not served), information on the nature of services, and on the efficacy of various programs are either questionable or totally lacking. Overall, the special education delivery system as it now exists is kindly described as chaotic. Our real concern is that despite the millions of dollars allocated, there are many handicapped children still denied access to essential services. It is difficult for agency personnel to transfer children from one service to another. Frequently, there is no advocate concerned with a specific child's welfare.

The overlapping of services conceals an ancillary problem. If several agencies have joint responsibility, it is easy for each to shirk direct responsibility. The assignment of responsibility for operating residential schools and performing educational services is frequently an historical accident rather than the consequence of educational or administrative reasoning. There is no mechanism to bring together the best inter-disciplinary knowledge to diagnose children's needs, to prescribe treatment, and to follow-up for evaluation of progress.

#### CHAPTER III .

# Robert A. Henderson

Conceptual Nature of Special Education

The provision of educational services for handicapped children began in the early 1800s with the establishment of the American School for the Deaf in Hartford, Connecticut. By the mid-1800s, special education consisted of state residential schools for the visually handicapped and hearing handicapped children, plus "asylums for the feeble-minded."

By the turn of the century, most large cities had developed special schools for orthopedically handicapped children and those with chronic health problems such as tuberculosis and orthopedic handicaps due to polio, rickets, and similar conditions. Immediately following World War II, Illinois and most other states enacted broad legislation providing for a wide range of services to mildly and moderately handicapped children within the public schools. The current trend in special education is to correct some of the evils produced by earlier delivery systems through increased emphasis on the handicapped child being a part of, not apart from, the mainstream of public education.

Thus, historically it is understandable why the various kinds of services available for handicapped children are administratively diversified, and the financing plan for each uncoordinated with the other. It is time that the State of Illinois, by legislative action, clarify the State's philosophy in regard to the education of the handicapped and the organization of the delivery systems become an integrated, coordinated



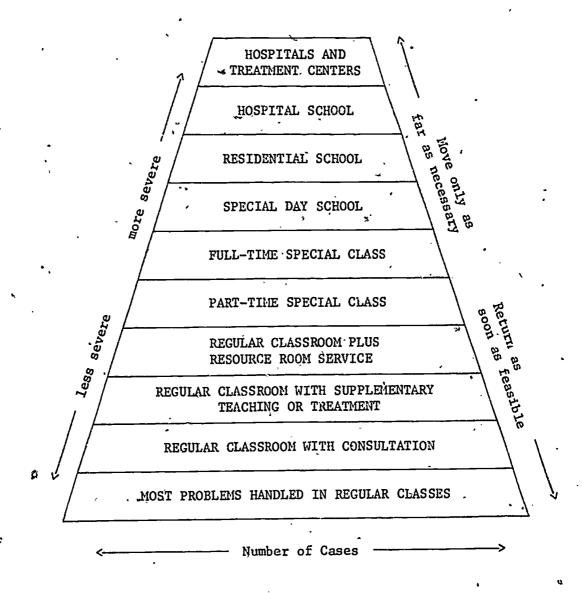
effort. Only if this is done can financing of special education programs, whether the child is in a regular class being served through an itinerant or resource room service, in a part-time special class, in a special school within the school district or within a joint agreement program, in some regional program for low-prevalence handicapping conditions or in a state or private day or residential educational facility, be related equitably to the costs involved and not penalize the parent or the resident school district financially if the child's needs require a program different from the one currently being attended.

Special education today must be seen as a continuum of services capable of delivery services across the entire range of severity of handicapping conditions. One model for visualizing such a continuum was provided by Reynolds' framework (Exceptional Children, March 1962).

Reynolds addresses the degree of severity of handicapped, meaning the educational implications—not medical or orthopedic severity—as the basis for defining the needs of children. He provides a dynamic placement system (right side of the framework), cautioning the schools to move the handicapped child up the framework into more and more restrictive place—ment alternatives only as far as necessary, and requiring that continual reassessment be accomplished so that the child may be returned to less restrictive alternatives as soon as feasible. While we did not have the terminology at the time Reynolds produced this framework, such requirements now come under the doctrine of Jeast restrictive alternatives, as contained in recent federal court decisions and U. S. Office of Education guide—lines relating to Title VI, EHA funds as required by Public 93-380.

# A FRAMEWORK FOR CONSIDERING SOME ISSUES IN SPECIAL EDUCATION\*

Maynard C. Reynolds



<sup>\*</sup>Exceptional Children, Vol. 28, No. 7, March, 1962, p. 368.

Probably due to the historical growth of special education programs, plus the large number of smaller school districts, many of them serving only elementary age or high school age children, it has not been economically feasible nor educationally sound for school districts to develop a comprehensive program of special education services solely for handicapped children who are residents of their district. In order to provide such services it is necessary to establish cooperative programs (known as joint agreements) with nearby school districts. For low prevalence handicapping conditions even these arrangements are not sufficient, and "super joint agreements" or regional low prevalence programs have been developed. With such joint agreements came separate administrative structures for special education. Thus, a current criticism of special education is that it fails to adhere to the doctrine of least restrictive alternatives. Children once placed in special education programs operated by joint agreements are seen as no longer the local school district's responsibility. They have been identified, labeled, and placed in a special class or special school, to which the local district contributes transportation and funds, but with which officials in the district have little contact, and almost no control. Thus, the re-integration of handicapped children once placed in special facilities becomes difficult, and in some cases impossible.

Any changes in state financing of special education should take cognizance of the need for a single conceptual base for the delivery of special educational services to handicapped children, regardless of severity of handicap. The plan should encourage the application of the doctrine of least restrictive alternatives and should encourage the development of a

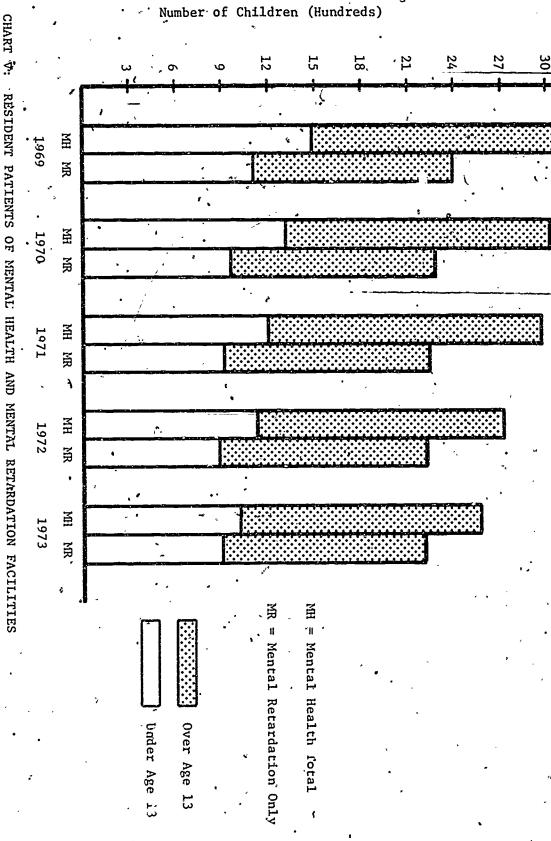


continuum of services with emphasis on continual re-evaluation of the child's educational needs, and the delivery of those services as close as possible to non-handicapped children within the regular educational setting.

## Emerging Trends

Since enactment of House Bill 1407 by the 1965 Illinois General Assembly, several trends which should affect the State's plan for financing special education, are evident:

Changing populations served by the public schools. Chart  ${\tt V}$ identifies the resident patients of mental health and mental retardation facilities from 1969 through 1973 in Illinois. It will be noted that both the number of children under the age of 13 as well as the total number of children served by residential facilities operated by the State Department of Mental Health decreased over this period. Since both state and federal incidence figures depict steady to increasing numbers in both categories, this figure can only indicate that the public schools are serving more of the moderately and severely handicapped population. The confirmation of this can be found in longitudinal data recorded in the Illinois Office of Education on the numbers of handicapped children served in low prevalence centers and by expenditure of state funds for severely handicapped children served in private facilities, or in public school programs designated as requiring "extraordinary" special education costs.



Source: Department of Mental Health, State of Illinois, Annual Reports

BY BROAD AGE GROUP FOR 1969-1973

CHART V:

- 2. The distribution of handicapped children (i.e., the prevalence, or number per school population base) is not uniform across school districts. This is due to a variety of factors, such as (a) the social-economic status of a community which will affect the etiology and incidence of certain handicapping conditions;

  (b) selective migration of families with a handicapped child to live in a school district or joint agreement with a program of recognized quality; (c) deliberate placement of handicapped children in foster homes by the Department of Children and Family Services based both on the quality of the foster parents available and the educational services of the resident school district.
- legislation and guidelines of the Illinois Office of Education are essentially circular in nature. They determine eligibility on the basis of the child's being unable to profit fully from regular education. Thus, the higher the quality of the regular education, the fewer number of children with mildly handicapping conditions who will need special educational services, and thus the prevalence will decrease inversely to the quality of the regular education program, at least for mildly handicapped children. A common example is a child with an IQ score in the upper seventies who moves from a poor school district with minimally trained teachers and a high pupil/teacher ratio to a wealthy district with master teachers, low pupil-teacher ratios plus excellent supportive services such as supervisors, instructional

materials centers, etc. In the former school district the child is clearly classifiable as "educable mentally handicapped."

However, in the latter school district with the teacher providing individual attention, the same child might well be able to achieve to his maximum potential without any special educational services other than that being provided as a part of the regular educational system. In the latter case the child could not be classified as "educable mentally handicapped."

This illustration should dramatize the inter-relationship of regular and special education. In a limited way for mildly handicapped children, the better the quality of regular education, the lower the prevalence and the less restrictive the special education requirements. Note the ironic dilemma: the rich district with excellent education programs will have fewer handicapped children. requiring special education programs than the poorer district which is least able to afford the cost differential of such special education programs.

is evident. The child's handicapping condition rarely is isolated to school problems, but also affects the child's parents, his relationship with peers, coordination of efforts between non-school public and private agencies, etc. Thus, a comprehensive special education program within the public schools must include elements of a non-educational nature such as extensive early screening and identification programs, extended home-school liaison and parental counseling and guidance, coordination and

liaison with medical, mental health, university clinic and other private and public community agencies, as well as residential schools.

5. Increasing use of alternatives to special class placement for the delivery of special education services to mildly handicapped children. Application of the doctrine of least restrictive alternatives requires the existence of resource rooms and itinerant teacher programs serving as supportive personnel to keep the mildly handicapped child in the regular classroom for most of the day. Special materials and techniques needed are supplied by the special educator, who also provides direct service to the child in terms of diagnostic/prescriptive/remedial teaching. Such programs require new role relationships for regular teachers, special teachers, the building principal, and consultant/supervisory personnel.

Screeping, Identification and Diagnosis of Pupil Needs

For at least some handicapping conditions it can be clearly demonstrated that the earlier the condition is identified and remedial measures instituted, the higher the child's educational, social and vocational potential. The clearest example comes from the field of the hearing impaired, where early diagnosis, maximum utilization of residual hearing, specialized preschool education plus parental counseling and home training can improve enormously the prospects of a child in the severe to profound hearing loss ranges, as compared with a child not diagnosed until five or six years of age.

Children with milder handicapping conditions, often thought by their teachers to be "lazy" or "stubborn" may benefit from early diagnosis and treatment. For example, ways of overcoming specific handicaps are seating the child so that the ear with the best hearing is toward the class, moving the child with distant visi a problems closer to the front of the room, or providing the child with an auditory perceptual problem with a supplementary reading program stressing visual and tactual reading methods.

Illinois law wisely provides for screening all children chronologically aged three and older to identify handicapping conditions. By this means the most obvious handicapping condition should be identified and provision for services made immediately. Unfortunately, instruments are not available with appropriate sensitivity to identify mildly handicapped conditions, or to predict academic disabilities in three, four and five-year-old children.

A very important concept to remember, also, is the dynamic nature of a child's growth pattern. Contrary to popular belief, a child's IQ is not fixed and unchangeable. Many factors affect a child's performance on a given test on a given day. From Kirk's study of early education of the educable mentally handicapped (1960) it was discovered that IQ scores of children from low socio-economic backgrounds would change by ten points or more upward from a pre-school to a second grade testing time. Even more positive changes could be effected if (1) the child was in a special pre-school program, and (2) the child was removed from the low socio-economic home and placed in a middle-socio-economic class foster home.

Blind children seldom acquire improved vision through educational programs. They do, however, change in terms of the educational severity

that their loss of vision imposes. Once able to read braille and use talking books, move about independently by means of specialized mobility training, and can communicate with sighted persons by means of a type-writer, the blind child can receive most of his education in a regular classroom. His proficiency in braille can be maintained by means of an itinerant specialist who would also assist the regular teacher in obtaining needed braille books, recordings, etc.

Thus, identification and diagnosis should occur as early as possible, and re-assessment should be a continual process so as to identify a changing educational need and to make necessary revisions in the delivery of special educational services.

Note that the emphasis of these remarks has been toward individual need assessment: determination of the child's educational strengths and weaknesses, diagnosing the underlying psychological correlates of communication deficits, and evaluation of change requiring a shift to a less restrictive alternative of delivering the needed special education services. Except for statistical, administrative purposes, children should not be fixed with a categorical label, especially in the case of mildly and moderately handicapped children who may be served in the regular classroom with supportive services. Such labels often stigmatize the child, causing peer relationship problems, giving false expectations to parents and failing to help the classroom teacher in working with the child.

The emphasis in identification and diagnosis should be on diagnosing the educational needs of the child in terms that the classroom teacher can understand and utilize in providing an individualized program of instruction

All of this will require both improvement in quality and quantity of diagnostic services, currently available in only a few of the wealthier school districts and joint agreements in Illinois.

The current rules and regulations governing administration of special education (IOE, October 1974) have moved a long way from the day when a psychologist, based upon an hour or so of psychological testing could classify a child as educable mentally retarded and declare him eligible for placement in a segregated, special class for the ENH. Instead a case conference, with input from educators, social workers, psychologists, and other diagnosticians is required before an educational plan is developed. The parents, often ignored in the past as sources of diagnostic information, are now working partners—or should be—with the schools in the determination of their child's special educational needs and the educational services required.

It should be recognized that improvements in service delivery to match the intent of the law, rules and regulations, will come very slowly unless funding is provided for inservice education across a broad spectrum of personnel dealing with the handicapped child: the regular teacher, the building principal, other school administrators, special educational teaching and diagnostic staff, parents, school board members, and the lay public who eventually approve or reject such expenditure of funds by election of representatives and acceptance or rejection of school funding issues.

#### CHAPTER IV

# EDUCATION OF PRE-SCHOOL AGE HANDICAPPED CHILDREN Merle B. Karnes

The pattern of special education, almost since its inception, has been to provide special programming for the handicapped child only after he has demonstrated the inability to cope with or adjust to the offerings of a regular class. A handicapped child might attend a regular class for one, two, or even more years before being referred as a candidate for special education. During this time, he experienced a preponderance of failures. His self concept was undermined and he developed little confidence in his ability to succeed. He learned to avoid new tasks and generally became poorly motivated to learn. He perceived his peers and teachers as unaccepting and generally felt "out of step" with peers who were developing normallyintellectually, socially, emotionally and physically. When he was finally provided with special education, the ill effects of his previous experiences in school had to be counteracted and more positive attitudes and habits had to be established if he was to develop his potential to its fullest. Implicit in this situation were teaching challenges but also goals impossible to achieve.

An exception to the case outlined above is the low-incidence handicapped child who is more readily identified—the blind or deaf child, the child with marked mental retardation or severe emotional disturbance. Even then, low-incidence handicapped children may not come to the attention of the school prior to age seven, the compulsory age for school entrance in the State of Illinois, despite the fact that our state has had mandatory legislation for



a number of years to provide special education below age six and as young as age three for some groups of low-incidence handicapped children. This lag in services has often been attributed to the unwillingness of parents to demand services for their children or to acknowledge to the larger community the presence of a handicapped child within the family.

In recent years (1972) the Illinois legislature has passed mandatory legislation to educate all handicapped children as young as three years of age. Currently, however, the practice is to provide for the young, severely handicapped child (low incidence) whose handicaps are obvious, and little or no effort has generally been made to identify the mild or moderately handicapped child at an early age. Indeed, there are only a few examples in the state of comprehensive plans for screening, identification, diagnosis, and programming for those hard-to-locate children in the mild and moderately handicapped range.

This chapter attempts to answer two critical questions regarding early special education: "Why early education for the handicapped?" and "What constitutes an exemplary program for young handicapped children?" A third question relates to the responsibilities of institutions of higher learning in promoting early education of the handicapped, "How can universities help public schools to provide improved programming for young handicapped children?"

# Why Early Education for the Handicapped?

For over twenty years I have been concerned about the number of children in the public schools who need special education. In the late 40s and early 50s I worked with Dr. Samuel A. Kirk, former director of the Institute for Exceptional Children at the University of Illinois, as the director of an



educational program for young children (ages 3-6) who were functioning in the mentally retarded range. This experience, coupled with the research findings of the study, convinced me that many children who are in special classes or who receive special services would not need such services had they received special help during the early years.

I was director of Special Education in the Champaign Community Unit IV schools for twelve years prior to joining the faculty of the University of Illinois in 1965. During this administrative career I discovered that 70 to 80 percent of the children in these special classes for the mentally retarded were from low socio-economic homes and that the large majority of these children were black. This latter fact was especially disconcerting since only 12 percent of the community population was black. This finding was by no means peculiar to the Champaign schools. Children from low-income families had at this time no opportunity to participate in pre-school programs and came to the first grade with marked developmental lags. Experiential deprivation affected their intellectual functioning, their cognitive-language development, and their social-emotional development. Developmental lags in the physical area were also observed. School failure for these children was likely if not inevitable.

In 1965 at the University of Illinois my associates and I developed a program for educating young disadvantaged children which has proved to be a preventive approach for children who are prone to need special education. Among the various studies we conducted was one which investigated the effects of the program we had developed on children in low-income familiary who were functioning in the intelligence range of 37-75 (mean 66) as

measured by the Stanford-Binet. After one year of intervention, the children in this study achieved a mean IQ gain of 21 points which resulted in a mean IQ of 87.5. Thirteen of the 15 children in this study made Binet IQ gains which placed them in the average range of intelligence. A five-year follow-up study revealed that none of these children had been placed in special classes (Karnes, 1973).

The child with the lowest IQ (37) was a Caucasian child with five siblings who were in classes for the mentally retarded—either trainable or educable—in the Champaign schools. This child was provided with the intervention program we had developed for a two-year period at which time he obtained a Binet IQ of 84. At the end of the first grade he was functioning at the 3.3 grade level in reading on the California Achievement Tests and at grade level in arithmetic. A follow-up study at the end of third grade revealed that this child had continued to function at grade level in the mainstream of the school.

The findings of other researchers who have deliberately studied the effects of special programming on the development of children from low socio-economic level homes who functioned in the mentally handicapped range support the contention that mental retardation among this group of children can be prevented (Weikart, Deloria, Lawser and Wiegerink, 1970; Hodges, McCandless and Spicker, 1970). It must be noted, however, that the programs provided the children in all of these studies were especially designed to alleviate developmental lags and that precise planning, including matching activities to the developmental stage of the child, were deemed critical. The findings of these studies, therefore, cannot be generalized to include <u>all</u> pre-school programs.

In 1970 we at the University of Illinois received a grant from the Bureau of the Education of the Handicapped for the development and dissemination of a viable program for multi-handicapped children (ages 3-5) from all socio-economic levels. As one of the First Chance network programs, we sought the most handicapped children in a 35-mile radius surrounding Champaign-Urbana. The children we served had either not been admitted to existing programs or had been dropped from them because of the complexity of the problems these children manifested. We drew on the knowledge and skills acquired in the previous five years during which we had developed and tested educational approaches with children from low-income families. Approximately 50 percent of the children who were enrolled in this special program were able to function in the mainstream of the public schools in subsequent years.

As a result of some 10 years of research and experience, then, we can say with confidence that the need for special education can be prevented/among many children from low-income families if they are provided with appropriate programming during the pre-school years. In addition, our data reveal that a large majority of handicapped children can function at a higher level when they are provided with the pre-school program we have developed. Obviously, this does not mean that all handicapped children will function normally or will require no additional special services. It does mean, however, that many will not need special education in subsequent years and that those who do will likely need a lesser amount of special services. While it is difficult to make an exact dollar evaluation, it is obvious that a reduction of costs is

inevitable. Certainly no monetary estimate could begin to describe the impact such programs have on the lives of the handicapped and their families.

The early years are when children are most pliable and when special programming can have its greatest effect. The longer handicaps persist without intervention, the more entrenched they become. Bloom maintains in Stability and Change in Human Characteristics (1964) that 50 percent of intelligence is developed by the age of four. Hunt, in an earlier book, Intelligence and Experience (1961), emphasizes the effects of experience on intelligence and refutes the notion of fixed intelligence. The thinking of such experts coupled with research findings clearly endorse early education programs for the disadvantaged and handicapped.

# What Constitutes an Exemplary Program for Young Handicapped Children?

The benefits of such programs as Head Start have been widely questioned, especially from the standpoint of subsequent school performance. Three programs developed by special educators, on the other hand, have revealed sustained gains over time: Bereiter and Englemann (1966); Karnes (1969); and Weikart (1970). A recent review of over 120 First Chance programs funded by the Bureau of the Education of the Handicapped throws additional light on what constitutes exemplary programming. The following appear to be among the components of exemplary programs:

1. A well conceptualized and well defined screening and identification program. Any program that meets the needs of children prone to become



special education subjects must have viable screening and identification methods. This program must assure that moderately, as well as low-incidence handicapped children, be identified.

A number of promising procedures are being developed and tested in various parts of the country. Most of these are in the developmental stages and are as yet unpublished. Many of these have been developed in First. ... Chance programs.

A word of warning is, however, in order: programs must be developed prior to or concurrent with the identification of subjects. It is counterproductive to identify handicapped children and have no program in which to place them. Such procedures can only leave parents frustrated and confused.

- 2. Well trained teachers. The key to a good program is well trained. head teachers. Even though a special educator may perform well at the elementary or secondary level, one cannot automatically conclude that such a teacher will be an acceptable pre-school teacher of the handicapped. On the contrary, without additional training such a teacher is a likely candidate for failure. Similarly, a teacher trained to work only with normal preschool children will be unprepared to work with handicapped pre-schoolers. The breadth of training of a pre-school teacher of the handicapped must be great, for such a teacher is often diagnostician, curriculum developer, manager and team leader, parent worker, trainer of volunteers and paraprofessionals, and public relations expert.
- 3. High adult-child ratio. Since the young handicapped child has many special needs, he requires considerable attention from an adult. A program

can supply this necessary high adult-child ratio by involving parents, teenagers, and other volunteers. A series of studies involving non-certified
teachers, parents, teenagers, and adult paraprofessionals, who worked to enhance the experiences of young children are reported by Karnes, Zehrbach and
Teska (1970).

- 4. Professional growth program. Early education of the handicapped is in its infancy and must, therefore, rely on inservice training to keep personnel abreast of new developments in the field, and the daily schedule must allow time for a variety of professional growth activities.
- 5. Teaming. The concept of teaming is especially relevant for programs designed to meet the needs of young handicapped children and their families. The head teacher, paraprofessionals, speech and language specialist, psychologist, social worker, and physical therapi: must evolve a close working relationship in order to plan and to delineate responsibilities so that the fullest development of the handicapped child is ensured.
- 6. Diagnostic procedures to determine developmental strengths and weaknesses. Diagnosis of the young handicapped child must include many critical aspects of development which have relevance to educational programming. No longer is the IQ or other test scores deemed conclusive in planning a viable program. Instead, careful observation of each child and a thorough knowledge of developmental milestones are required.
- 7. Utilization and coordination of community resources. The school is only one agency that can help the young handicapped child, and it often becomes the role of the school to coordinate community resources and to facilitate communication among agencies that work, or should be working, with handicapped children and their families.

8. Individualization of programming and instruction. Each young handicapped child must be studied carefully so that an individual program compatible with his stage of development can be designed. Such a program should help him to overcome weakness in his development as well as help him to make progress in his areas of strength. Such a program must take into account all facets of his development and guard against overemphasis in one area to the neglect of other important areas.

Since all children do not learn in the same way, it is important to determine the learning style most appropriate for a given child. Further, long range goals for each child must be established as well as specific objectives which will help him to attain those goals.

- 9. Strong emphasis on language development. Since language is the heart of learning, every program for young handicapped children must place a heavy emphasis on language development, especially since research indicates that a large portion of young handicapped children demonstrate developmental lags in language development.
- 10. Use of a positive approach. Attitudes of personnel working in a pre-school program are critical to its success. First of all, such persons must be committed to early education of the handicapped and to the approach that is being used. They must demonstrate positive attitudes toward the children as well as parents and toward their co-workers. There is reason to believe that the more positive attitudes are, the better the program. It cannot be inferred from this relationship that pre-school workers should adopt unrealistic expectations, but it does suggest that when personnel have positive attitudes, they are more apt to act positively and that positive actions are more likely to prove successful than negative ones.

- 11. Appropriate instructional materials. The goals and objectives of the program must determine the selection of instructional materials. The appropriateness of the instructional materials in helping the teacher to reach these goals and objectives is of paramount consideration. Teachers must assume primary responsibility in the selection of instructional materials.
- mainstream children than during the pre-school years. Handicapped children learn much from working and playing with their normal peers, just as normal children gain a great deal from association with the handicapped. Since we do not have public education down to the age of three for normal children, we obviously cannot offer integrated pre-school experiences for the very young handicapped child. For the school-age group, it is legal and educationally sound to mix normal and handicapped children for the fuller development of both the handicapped and the normal individuals. Thus, there is the need for programs which include the normal as well as the handicapped. While this chapter is devoted to the handicapped, there is equally strong research evidence to support appropriate, formal education for early age normal children.
- 13. Parent involvement. Any exemplary program has a strong parent involvement component. Parents are as different as children; therefore, a flexible approach must be used to involve parents in the educational program of their young handicapped children. Attending large or small group meetings or individual conferences, teaching the handicapped child in the classroom or at home, making instructional materials, serving as aids to ancillary personnel, assisting in producing a newsletter to parents, working in the

parents' dibrary, working with other parents of handicapped children, and interpreting the program to community groups are some of the many ways of involving parents.

Parents should have a voice in determining program goals and objectives for their handicapped child as well as deciding how they will be involved in the program. More detailed accounts of how parents can participate are found in two publications by Karnes and Zehrbach (1972a, 1972b).

- 14. Ongoing evaluation. Any program of excellence has a built-in system of evaluation. Daily evaluation by the learn regarding the effectiveness of the program for individuals as well as groups of children is invaluable. A systematic schedule of case conferences can be very useful in determining whether or not a child's program is appropriate and services are genuinely effective. Criterion reference tests built into the daily curriculum of the children provide immediate feedback to the teacher who must know whether or not the child is learning what the teacher purports to be teaching him. Parents and volunteers can often be trained to collect data which will help the staff to evaluate the effectiveness of the program.
- 15. Follow-up procedures. Follow-up of children who have left the pre-school program is important. The kind of information gathered should be helpful in improving the pre-school program and in determining what additional services the handicapped child needs to sustain the gains he made during the pre-school years and to continue maximum development in subsequent years.
- 16. Community support. It is important to a program to know that it enjoys community support, but the staff of a pre-school program for the

handicapped must assume a major role in obtaining this support. The best way to win support is to have a good program, but every opportunity that affords itself should be used to interpret the program to the public. In addition, staff can reach out and develop opportunities to make such interpretations—newspapens, TV, radio, speeches, brochures, agencies, doctors offices.

How Can Universities Help Public Schools to Provide Improved Programming for Young Handicapped Children?

There are three important ways in which universities can help public schools provide improved programming for young handicapped children. The first is through exemplary programs of preservice training. It is imperative that such training programs provide the prospective special teacher with opportunities to acquire the skills, attitudes, and knowledge essential to working effectively with handicapped children and their families. Completing the four courses required by the State for certification may enable a school system to obtain reimbursement, but meeting such requirements cannot assure that a teacher is professionally qualified to teach young handicapped chil— 11 dren. Rather, the heart of the training program must be a strong practicum which involves working with handicapped and normal children and with families of the handicapped children. Course work is essential, but it must be closely integrated with practicum experiences.

The second major contribution a university can make in promoting improved programming for handicapped children is through research and development activities. University faculty must be in tune with the needs of the field, and research must address itself to those unanswered questions posed

by practictioners. Research can generate the new knowledge that will enable the field to move ahead, but only when researchers and practitioners have open lines of communication.

The third contribution a university can make to this specialized field is in continuing education. Early education for the handicapped is a pioneer field in special education and knowledge is being generated at such a rate that only through continuing education can personnel in this field, even though their training is recent, operate effectively. Through extensive courses, workshops, programmed materials based on expressed needs, practitioners can keep current in their professional training. In the years to come, closer ongoing working relationships must be developed between local school systems, regional educational service centers, the Illinois Office of Education, and institutions of higher learning to ensure higher quality of educational programs.

### Summary

There is sufficient evidence from research and from the opinions of educational experts that the early years are critical in the prevention and reduction of handicapping conditions. In these early formative years children are more amenable to change. If the handicapping conditions persist without intervention and children experience a preponderance of failure, their school attitudes and learning habits are apt to be negatively affected and the likelihood of the development of the full potential of an individual lessened.

School systems must give high priority to early education for the handicapped for two reasons. First, and most important of course, is to prevent





certain handicapping conditions from developing and to minimize the effects of existing handicapping conditions. Second, by reducing the number of children who may need special education in subsequent years, costs to the school and the taxpayer are reduced.

Certain characteristics or components are essential for a program to be viewed as exemplary. These are: (1) a well conceptualized and clearly defined screening and identification program, (2) well trained teachers, (3) high adult-child ratio, (4) professional growth program, (5) teaming, (6) diagnosis designed to determine developmental strengths and weaknesses, (7) utilization of community resources, (8) individualization of programming and instruction, (9) strong emphasis on language, (10) use of positive approach, (11) appropriate instructional materials, (12) integration with normal children, (13) parent involvement, (14) ongoing evaluation, (15) follow-up procedures, and (16) community support.

A few states have extended the age of intervention for handicapped children downward to birth. This appears to be a valid action, if one accepts the current evidence of the potential educational and human advantages to be gained. There is sufficient evidence, based on sound and logical thinking, to conclude that it would be wise for Illinois in the near future to extend its educational programming for handicapped children downward to birth.

Universities can be of assistance to local school systems, regional educational service centers, and the Illinois Office of Education in three major ways: (1) providing preservice education, (2) engaging in research and development activities to meet the needs of the field, and (3) offering continuing education based on need assessments.

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#### CHAPTER V

# BILINGUALISM AND SPECIAL EDUCATION Jacquetta Hill-Burnett.

have severe difficulties learning and performing in the American culture.

The problems of a normal child in a single-culture environment are enough.

Children with a dual existence, referred to as the bilingual or bicultural, may have traumatic experiences, especially at an early age, because of the way their differences are viewed and judged, and because of the absence of professionals who can transform their differences into training resources.

Many so-called normal children by definition in either culture, have plinguistic, cultural difficulties which often are improperly diagnosed as "mental retardation," "learning disabilities," and even "emotional discorders." There are widespread accounts of cases of non-English speaking children who are somewhat bilingual (i.e., in more technical terminology non-English-dominant) being placed in classes with mentally handicapped. even in EMH levels of special education. These "errors" of placement are claimed to have done more damage than good, a believable claim when one considers EMH classes are no better equipped to "treat" lack of competence in language than are regular classrooms. But the strongest basis for negative fregard of having bilingualism associated with special education is perhaps symbolic.

Thus, the educator must not base the diagnosis of the bilingual child on the premise that a lack of English language competency is a Tearning

disability. Indeed, the bilingual-bicultural child might better be regarded, in some respects, like intellectually gifted children who have special assets that the standard range of school experiences neither utilize nor develop to a high standard of performance. The deficiencies of most children from non-English language background are a function of the absence of personnel in the schools who can tap the full range of abilities by giving instructional content in their native language concurrent with instruction in English.

The "deficiency" of competently trained personnel in the diagnostic process has contributed to grievous errors in needs assessment of children and to the growing level of negative attitudes toward special education in non-English speaking populations. In interviews with parents in Chicago, special education classes, were regarded with fear and hostility as if assignment to special education classes consigned their children to a lifelong mental dungeon. This is dramatic language, but it is an accurate reflection of the depth of feeling with which they expressed themselves. In order to distinguish between the usual range of learning disabilities that are physically or mentally based and the expression of learning difficulty coming from lack of competency in English, the primary language used in school, or from cultural differences, a person or a diagnostic team must have expertise in at least three disciplinary and knowledge areas.

The first of these is command of developmental phases or stages in the learning abilities of any human being, and in variations as they are affected by the society or the culture. Since not all development is a function of human maturation, but is heavily subject to cultural definition, judgments about maturation, particularly for children coming from different cultural

(and linguistic) backgrounds, should be made by a diagnostician well informed on cultural variations in developmental tasks. This includes knowledge of the characteristics of the processes of first language and second language acquisition.

Second, the well prepared diagnostician should know linguistic concepts, particularly sociolinguistics concepts, increasingly found to be relevant to developing tests, designing testing instruments and situations, and administering tests. Research being done in this area indicates that language performance is extremely sensitive to the social situation (school, home, etc.) in which the child performs. In addition to linguistic knowledge, diagnosticians must be competent in the mother language of the child, as well as in English.

Finally, of course, the individual must have expert knowledge of the range of learning disabilities and exceptional abilities if one of the objectives of the diagnosis is to determine whether the performance of the child warrants classification into a learning disability category or alternately in that range of varying degrees of linguistics competency in a second language, or dialect.

Thus, we are suggesting that there are three key areas in which the school system must focus expertise in order to make the fine and refined judgmental decisions regarding what it is that is acting as a deterrant to the progress of the bilingual child in the standard school situation. The school system must provide not only the personnel for proper diagnosis, but also the programs and wherewithal to afford learning experiences that are appropriate to these children.

# APPENDIX .

This section presents Table 14 which explains the procedure used in this study for cost analysis of instructional programs. Tables 15-36 inclusive present detailed information on programs for each of the 23 districts that cooperated in this study.

# Table 14

# Method of Computing Program Costs (With Illustration)

	•			*
1.	District	Champaign Community Unit Sch	ool District	4 - , , ,
2.	Title of Program	Educable Mentally Handicap	ped (K-9)	· .
<b>3.</b>	Number of Pupils in (Use 1/2 ADM for	Program (ADM) half-day Kindergartens)	195	· · ·
2.7	Number of FTE Pupil	e in Program	117	
,	(Item 3 times ave Program. In high day. In Vocation	rage fractional time spent in school use fraction of 5-hour al Programs use average course of a five Carnegie credit pupil		1
5	Number of FIE Pupil	s in Regular Program	· 78	
•	(İtem 3 minus Ite	em 4). Use number of pupils as nine the numbers of regular — program. Omit this item for	. ,	
•			T	otal Salarie (Based on District
			(FTE)	Average)
6,	Special Teachers in	Program	15.0	\$183,825
7.	` at average pubil-	per of pupils (FTE) in Item 5 teacher ratio of the regular strict.) Omit this item for	4.5	55,148
8.	Total Teachers in t	he Program	19,5	238;973
9.	Total Academic Supp	oortive Staff:	5.78	66,242
•	(1) Total Admin	strative and Supervisory:	1.48	30,441
•	a. Assigned		0.40	8,228
	b. Prorated school;	l on per teacher basis from and district central offices	1.08	22,213
* 44	* librarians, others (sepa	psychologists, social workers, therapists, teacher aides, and arated by groups as illustrated trative and supervisory.)	4.30	35,801
		108	-	

, Ç

#### Table 14 cont'

10. Auxiliary Services (Clerical, stehographic, custodial, instructional supplies, other	
' ` operational expenses) Total	\$ 99,318
(1) Assigned	0.
(2) Unassigned: prorated on per teacher basis.	99,318
11. Total Expenditures  * (Sum of Item 8 plus Item 9, plus Item 10.)	404,533
12. Cost per Pupil (ADM) in Program  (Divide Item 11 by Item 3, for all programs  except Vocational Education)	2,074
13. a. Cost per Bupil in Regular Program, grades 1-8.	981
b. Cost per Supil in Regular Program, grades 9-12.	
14. Program Cost Differential (Divide Item 12 by Item 13 a and b as applicable.)	2.11
15. Vocational Education, Cost per Pupil FTE. (Divide Item 11 by Item 4.)	
16. Program Cost Differential per Vocational FTE.  (Divide Item 15 by Item 13b.)	
17. Program Cost Differential per Pupil (ADM) Enrolled in Vocational Program. Add: (1) Average fractional course credit	
FTE value of 5-unit load times Item 15, plus	
(2) Average fractional time in Regular  Program times per pupil cost in	
Regular Program in grades 9-12 (Item 13b)	F • • • • • • • • • • • • • • • • • • •

4

Table 15

#### Alsip, Hazelgreen and Oak Lawn (EL.)

#### 1973–1974

Program	No. of Pupils (ADM)	Exp. per Pupil	Cost Differential*	No. Pupils per Teacher
I. Total No. of Pupils (ADM) II. Basic (General) III. Pre-Kindergarten (FTE)	2,406 1,960	\$ 803	; 1e00	24.1
IV. Kindergarten (FTE) V. Special Education	106° 340	907	. 1.13	21.2
1. EMH	18	·2,134	2.66	9.0
2. TMH	• 11	4,401	, 5.48	5,5
3. Ed. Hand.	12 .	1,617	2.01	12/.0
4. Learning Disab.	121	1,035	1.29	20.2
5. Speech Corr.	178	1,036 -	1.29	18.5

grades 1-8.

Blue Island 1973-1974

•			` ن	•	-
No. Pupils ner Teacher El. H.S. K-12	24.8	12.0 •	9.8	18.9 14.7	
Cost Differential*	1.00	2,44	2.61 2.47	1:27 1.89	
Exp. per Pupil **	\$ 913	2,224	2,380	1,158	`
No. of Pupils (ADM) El. H.S.	3,551 0 2,884 0 0 213	30	41	240	•
Program	I. Total No. Pupils (ADM) I. Basic (General). I. Pre-Kindergarten (FTE)	V. Special Education ' 1. Emot. Dist.	2. EMH 3. Learning Disab.	4. Speech Corr. 5. Bilingual	**
	14 H 14	•	يأدب سحمد ببالأب	•	

<sup>\*</sup>All cost differentials are based on the unit value of 1.00 for Basic (General) Programs in grades 1-8

ERIC

Table 17 Cost Analysis of Programs

Bloomington 1973-1974

٠.	, <del>-</del>	, <b>Q</b>	•	
Teacher K-12			12.8 9.1 12.0 10.7	. · · .
No. Pupils per Teacher El N.S. K-12	17.4		13.6 10.0 9.1 14.6	*
No. Pup	20.)	5.0	12.2 12.2 12.5 7	16.3 13.4 13.0
ential* K-12	·, .	,	1.59	***
Cost Differential* El. H.S. K-12	1.08	4.00	1:43 2,00 2.21 1.31	
Cost E1.	1.00	4.22	1.71 2.75 1.68 2.37	1.24
per Pupil H.S.	\$1,011	3,733	1,336 2,866 2,069 1,227	′ '\$
Exp. pe	\$ 934	3,939	1,601 2,567 1,565 2,216	1,156 1,419 1,453
of (ADM)	1,996 1,616 0	* in		
No. of Pupils (	4,147 2,796 , 0 250 1,101	, iu, 4,	78 40 85 105	, 400 366 18
•	,	,	, ,	
Program	I. Total No. Pupils (ADM) II. Basic (General) III. Pre-Kindergarten (FTE) .IV. Kindergarten (FTE) . V. Special Education	1. Pre-school 2. Residential 3. Emot. Dist.	6. Ed. Hand. 7. Learning Disab.	8. Speech 9. Comp. (Title I) 10. Bilingual
•	•,	•	113	$\int$

<sup>\*</sup>All cost differentials are based on the unit value of 1.00 for Basic (General) Programs in grades 1-8

Table 17 cont

Cost Analysis of Programs

Bloomington

1973-1974

Cost Differential** Pupil-Teacher Ratio per FTE per ADM* FTE No. Persons	1,79 1,28 12.1 33	1.59 1.24 13.6 34	2.10 1.22 10.0 50	1:84 1.42 il.7 23	1.83 1.41 11.8 24	1.80 1.48 12.0 20	1.68 1714 12.9 64.
per Exp. per	107 \$1,298	1,249	1,233	158 1,435	1,430	1,494	01,1,149
FTE Course Exp. per Equiv.	.36 \$1,807	.40 1,606	.20 2,120	.50 1,858	.50	.60 1,816	.20 1,701
No. Pupils	205		2.0	77.5	48.5	19.2	51.4
No. Program Enrolled	VI. Vocational Ed. 568 (High School)	A. Agriculture (Occ) 17	B. Home Ec. (Gen) 10	C. Trade & Ind. (Occ)155	D. Bus. & Dist. (Occ) 97	E. Health Occ. 32	F. Coop-Voc. 257

\*ADM - Average Daily Membership of pupils enrolled part-time in Voc. Ed. and the remainder in Basic or General Programs.

Table 18

Cost Analysis of Programs

1973-1974 Champaign

- +	•	•		
Teacher K-12		10.5.	9.8 10.3 13.7	. ,
Pupils per H.S.	17.9	14.4 4.3 5.0	9.2 14.0	•
No. Pu	21.0	12.0 8.0 7.0 7.0 6.5	10.0 9.4 11.7 8.3	13.1
ntial* K-12		2.10 2.98 4.49	2.16 2.07 1.58	•
Cost Differential* El. H.S. K-12	1.25	2.17	2.40	•
Cost E1.	1.00	1.76 3.22 2.46 3.03 4.49	2.11 2.25 2.25 1.81 2.55	1.62
r Pupil H.S.	\$1,224	1,540 2,125 4,406	2,350 1,562 1,269	
Exp. per El.	\$ 981	1,728 3,154 2,411 2,973 4,404 3,160	2,075 2,210 ° 1,772 2,498	1,585
(ADM) H.S.	2,390 1,616 0	39.0 9.0 9.0	47.0 14 183.0	
No. of Pupils (AI	7,885. 5,760 0 435 1,690		195 - 38. 226 176 -	483
Program	I. Total No. Pupils (ADM) II. Basic (General) II. Pre-Kindergarten (FTE) IV. Kindergarten (FTE) V. Special Education	1. Pre-School 2. Mult, Hand. 3. Phy. Hand. 4. Deaf 5. Blind: 6. Partial Seeing	7. EMB 88. TMH 9. Ed. Hand. 10. Learning Disab.	11. Speech Corr. 12. Comp. (Title I)

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<sup>\*</sup>All cost differentials are based on the unit value of 1.00 for Basic (General) Programs in grades 1-9.

Table 18 Cont

Cost Analysis of Programs

Champaign 1973-1974

\	•	VI.				11:	ŏ		*	
	Program	Vocational Ed. (High School)	A. Agriculture	B. Home Ec.	C. Trade & Ind.	D. Bus. & Dist.	E. Health Occ.	F. Coop-Voc.	G. Prevocational	
No. Pupils	Enrolled	2,534	145	388	561	1,053	چ	262	1 110	
No. Pupils	FTE	485	18.2	63.3	108.2	152.3	3.0	83.6	56.2	4
FTE	Equiv.	.19	.13	, 91.	.19	.14	.20	.32	.51	
Exp. per		. \$1,855	1,685	1,590	2,103	2,040	734	1,936	1,167	
Exp. per	ADM*	\$1,344	1,284	1,283	1,391	1,338	1,126	.,1,452	1,195	•
Cost Diff	per FIE	1.52	1.38	1.30	1.72	1.67	0.60	1.58	0.95	
Cost Differential**	per ADM*	1.10	1.05	1.05	1.14	1.09	0.92	1.19	98.0	
Pupf1-Te	FTE N	11.8	13.0	13.8	10.4	10.7	30.0	11.3	18.7	
Pupil-Teacher Ratio	No. Persons	,	104	84	.54	. 42	150		. 37	
No. of	Téachers	41.1	1.4′	4.6	10.4	. 14.2	0.1	7.4	3.0	
			•					•		•

<sup>\*</sup>ADM - Average Daily Membership of pupils enrolled part time in Voc. Ed. and the remainder in Basic or General Programs.

\_-100-Table 19

Cost Analysis of Programs

Chicago

•		•	•					
Toacher	K-12	· .	5.7.	7.3	13.2	9.4	20.5 19.4 19.6	19.3
ר ר	S	25.3	. 6.2 6.2	ໝ <sub>ູ</sub> ນ ພູກຸ	13.2	9.0	12.6 19.2 17.8 23.6	19.4
No. Puntle	E1.	28.8 16.1 22.2	826.7.2	88 4 470 6	13.2	8.8 9.2	20.9 19.2 19.1	19.3
		•	* , ,	•	, <sub>**</sub> -			•
ni fforontiols.	K-12		5.57 5.13 5.12	3.63	2.39	3.12	1.46 1.50 1.48	1.55
		1.21	5.69 5.26 5.16	3.67	3.01	2.55 3.58 5.53	1.68 1.74 1.29	1.66
, c	EI.	1.00 1.79 1.30	3.43 5.52 5.10 12.39 5.10	3.44	2.38	3.27	1.50	1.51
	H.S.	\$1,319	6,224 5,749 5,648	4,015 6,315	2,674 3,296	3,913	1,836 1,900 1,409	1,816
	ET.	\$1,094 1,953 1,418	3,752 6,044 5,582 13,554 5,576	3,765	2,603 3,261	3,578	1,546 1,644 1,654	1,655
n	H.S.	130,386" 86,813 \ \ 15,872	628 147 106	779	3,239 203	524	1,937	4,538
No.	EI.	381,484 256,760 3,292 16,272 105,160	212 1,374 596 54 326	159 805 293	10,903	2,069	7,747	12,587
1			-		•	ERCA		
ė	Program	I. Total No. Pupils (ADM) II. Basic (General) III. Pre-Kindergarten (FTE) IV. Kindergarten (FTE) V. Special Education	1. Pre-school 2. Phy. Hand. 3. Deaf 4. Blind 5. Partial Seeing	6, Residential 7. Soc. Adj. Sch.	96.0	11. Ed. Hand. (Soc. Adj. Classes, 12. Learning Disab.		Gifted
		•	.//2	110	<u>.</u>		211	

<sup>\*</sup>All cost differentials are based on the unit value of 1.00 for Basic (General) Programs in grades 1-8.

-101-

Table 19 Cont

Chicago

No. of Teachers	1,290	. 212	542	536	٠	•
Cost Differential** Pupil-Teacher Ratio per FIE per ADM* FTE No. Persons	101	102	. 98	1117		-
Pupil-T FTE	21.5	20.0	19.8	23.7		
Eerential** per ADM*	1.04	1.05	1.07	1.01		. ,
Cost Diff	1.18	1.26	1.27	. 1.06	•	
Exp. per ADM*	\$1,368	1,388	1,406	1,335	;	•
Exp. per Exp. per FIE ADM*	\$1,550	1,665	1,680	1,401	•	
FTE Course Equiv.	.21	. 20	24	.20		,
No. Pupils FIE	27,701	4,236	10,736	12,729 .20		,
No. Pupils Enrolled	130,027	21,537	45,653	62,837	<b>t</b> , *	٠
Program	VI. Vocational Ed. (High School)	A. Home Ec.	B. Trade & Ind.	C. Bus. & Dist.		
	VI.	,	•		13	ing in

<sup>\*</sup>ADM - Average Daily Membership of pupils enrolled part-time in Voc. Ed. and the remainder in Basic or General Programs. \*\*Based on unit value of 1.00 for high school basic (\$1319).

Table 20

### 1973-1974

Decatur

				•					1	,		,	1						~•
Teacher	K-12	٠.		•	8.0	4.9.4	4.8	5.0		7.6	5	13,4	70.07	12.4	_			Ĭ	
No. Punils per Teacher	H.S.	21.8	* •	Ž,	8.0	7.7	6.8	10.0	4.3	0.9	<i>!</i> /	13.3	17.5	19.3	,	,			
No. Pul	E1.	25.7	21.4	8.9	8.0	6.9	<b>4</b>	4.4		8.3	1	13.5,	7.9	9.3	11,3	~ ,	19.4	16.4	
ntial*	K-12		`	. *	3.87	5.43	5.63	6.30		3,78 -	•	. 2.00	3,33,	2.39		•			,
Cost Differential*	H.S.	. 1.13	<b>,</b>	•	3.92	4.50	4.07	2.74	6.10	4.41	i	2.06	1.80	1.43					
	E1.	1.00	1.16	3,95	3.85	5.58	6.11	7.19	· ·	3.60	•,	1.97	4.31	3.27	2.18		1.21	1.51	
Pin 1	H.S.	\$ 922	٠		3,186	3,660	3,312	2,228	4,960	3,584		1,675	1,460	i,162 ″		,	,		
, a, u	E1.	\$ 813	940	3,214	3,132	4,536	4,967	5,844		2,926	,	1,599	3,500	2,661	1,775		286	1,226	•
of (Anjw): , `	H.S.	6,138 5,251	246	, ,	۷.	<b>н</b>	٠ <b>٠</b>	. 2	4.	. 7	,	106	35	7,2					, , , , , , , , , , , , , , , , , , ,
No.	E1. H.S.	12,512 8,115	697 3,700	_	24	9	22	∞		25 .		230	55	<b>8</b> *	. 081		1,384	1,675	
ť	į						, .			•	,	•	,						
•	m.	Total No. Pupils (ADM) Basic (General)	Pre-Kindergarten (FTE) Kindergarten (FTE) Special Education	Pre-School	Múlt. Hand.	Phy. Hand.	Hear. Imp.	Partial Seeing	Residential	Emot. Dist.	•	ЕМН	TMH	Ed. Hand.	Learning Disab.		12. Speech Corr.	13. Comp. (Title I)	
•	Program		III. Pre-Ki IV. Kinder V. Specia		. 2.	a.	. 4.	หา้	د			<b>α</b>	. 6	10.	<u>.</u>		12.	ξ	
		i	-	•				1	1	3					1		,		

<sup>\*</sup>All cost differentials are based on the unit value of 1.00 for Basic (General) Programs in grades 1-8.

Table 20 Cont'

### 1973-1974

\* Decatur

No. of Teachers		23	19
Cost Differential** Pupil-Teacher Ratio per FTE per APM* FTE No. Persons	31	31	. 30
Pup11-7	45.3	15.5	15.0
Ferential**	1.16	1.16	1,082 1.35 1.17
Cost Dif	1.33	1.31	1.35
Exp. per	\$1,074	1,067	1,082
Exp. per	\$1,225	1,212	1,241
FTE Course Equiv.	5.	,	٠,
No. Pupils FTE	641	356	285
No. Pupils Enrolled	1,282	712	. 570
Program	VI. Vocational Ed. (High School)	A, Trade & Ind.	B. Bus. & Dist.

Table 21

Cost Analysis of Programs

Downers Grove (El.)

No. Pupils per Teacher	21.5	5.9	12.7 7.0 11.0
Cost Differential*	1.00	3,79	1.86 3.67 2.33
Exp. per Pupil	\$ 840	3,182	1,564 3,080 1,960
No. of Pupils (ADM)	6,183 5,786 0 310 87	13	38 14 22
Program	I. Total No. of Pupils (ADM) II. Basic (General) III. Pre-Kindergarten (FTE) IV. Kindergarten (FTE) V. Special Education	1. Pre-School	2. EMH 3. Ed. Hand. 4. Learning Disab.

<sup>\*</sup>All cost differentials are based on the unit value of 1.00 for Basic (General) Programs in grades 1-8.

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Table 22

. Edwardsville, 1973-1974

,	19	•			
Teacher K-12	** ***		8.84 6.3 17.6	18,5	•
No. Pupils per Teacher El. H.S. K-12	22.25	00.6	12.50 4.0. 16.9	22.0	
No. Pr	26.1	8.00	6.47 8.00 17.76	18.40	
Cost Differential* El. H.S. K-12		:	3.41 4.80 1.73	1.45	
Differ H.S.	1.26	3.57	2.32 7.15 1.65	1.29	
Cost E1.	1.00	6.39	4.77 3.86 1.75	1.46	
Exp. per Pupil El. H.S.	\$ 894	2,526	1,642 5,064 1,168	, 912	
Exp. pe	\$ 708	4,527 3,494	3,378	1,035	
No. of Pupils (ADM) El. H.S.	1,990. 1,482 0	e (1)	. 25	# *	
No. of Pupils ( El.	3,378 2,499 0 117 762.	10	20	237	
Program	<ol> <li>Total No. Pupils (ADM)</li> <li>Basic.(General)</li> <li>Fre-Kindergarten (FTE)</li> <li>Kindergarten (FTE)</li> <li>Special Education</li> </ol>	1. Pre-School 2. Mult: Hand. 3. Residential	4. EMH 5. Ed. Hand. 6. Learning Disab.	7. Speech Corr: 8. Comp. (Title I)	

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Table 22 Cont.

Cost Analysis of Programs,
Edwardsville
1973-1974

		No. Pupils	No. Pupils (	FTE Course	Exp. per	Exp. per	Cost Diff	erential*	Pup11-Te	Cost Differential** Pupil-Teacher Ratio	No. of
`. 	rogram	Enrolled	all.	Edury.	777		, per FLE	per Aun	772	NO. rersons	reachers
IA	VI. Vocational Ed. (High School)	1,835	437 ~	.24	\$ 848	\$ ~ 883	0.95	.0.99	23.5	98.7	18.6
•	A; Agriculture	.49	11.8	.24	1,644	1,074	1.84	1.20 -	11.8	49.0	1.0
•	By Home Ec.	198	47.6	.24	798	871.	68.0	0.97	25.1	104.2	1.9
. 1	C. Trade & Ind.	547	129:4	.24	1,182	963	1.32	.1.08	16.6	16.6 70.1	7.8
ZZ	D. Bus. & Dist,	1,041	248.2	.24	949	834	0.72	. 0.93	31 🔅	31 4 4 131.8	7.9
			, .		,	• 1	\	•		_ _	1

\* \*ADM - Average Daily Membership of pupils enrolled part-time in Voc. Ed. and the remainder in Basic or General Programs

Table 23

#### Galesburg 1973-1974

r		, .	•	
Teacher .K-12	• • • •	. • .	11.9	• ,
Pupils per Teacher H.S. K-12	18.8	· · · · · · · · · · · · · · · · · · ·	11.5	
No. P	20.1	9 9 9 9 9 9 9	11.9 13.3 10.3	16.6 16.7
nt1a1* K-12	No.		1.83	
Cost Differential* El. H.S. K-12	1.10		2.28	•
Cost El.	1.00	3.30 3.53 4.01 3.51	1,75 1,95 1,93`	1.20
Exp. per Pupil R1. H.S.	\$ 863		1,789	
Exp. Pe	\$ 783 866	2,583 2,762 3,140 2,749 1,701	1,369 1,527 1,515	943 936
of (ADM) H.S.	1,981 1,415 0 40		30	
No. of Pupils (AI	5,928 4,387 0 278 1,263	, 88999 ,	180 40 90	400
Program	I. Total No. Pupils (ADM) II. Basic (General) III. Pre-Kindergarten (FTE) IV. Kindergarten (FTE) V. Special Education	1. Pre-School 2. Phy. Hand. 3. Hear. Imp. 4. Residential 5. Emot. Dist.	6. EMH 7. TMH 8. Learning Disab.	9. Speech Corr. 10. Comp. (Title I)
,	-	123	•	

<sup>\*</sup>All cost differentials are based on the unit value of 1.00 for Basic (General) Programs in grades 1-9.

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Table 23 Cont

Galesburg 1973-1974

	)	••	٠,	÷			
No. of	Teachers	26.0	1.0	4.5	. 12.0	6.5	2.0
Ccst Differential ** Pupil-Teacher Ratio	No. Persons	55.8	87.0	53.1	6.65	70	35.0
* Pupil-	FTE	20.7	22.0	16.2	24.3	18.9	14.0
erential *	per ADM*	0.91	0.87	1.05	0.89	30,1	1.13
Ccat Diff	per FTE	0.91	0.86	1.15	0.78	66*0	1.32.
Exp. per	ADM*	\$ 784	× 834	905	171	198	. 975
. Exp. per	FTE	\$ .787	146	, 866	675	857	1,142
FTE	Equiv.	.37	.25	.30	64.	1.27	.40
No. Pupils	FTE	538	. 22	73	292	123	28
No. Pupils	Enrolled	1,450	87	239	. 665	455	70
,	Program	VI. Vocational Ed. (High School)	A. Agriculture	B. Home Ec.	C. Trade & Ind.	D. Bus. & Dist.	E. Health Occ.
. , ,	•	VI		,	1.	LO 1	g K.

<sup>\*</sup>ADM - Average Daily Membership of pupils enrolled part-time in Voc. Ed. and the remainder in Basic or General Programs. \*\*-Based on unit value of 1.00 for high school basic (\$863).

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Table 24.

Harrisburg 1973-1974

•	er Tea	H.S. K-12	20.8		<i>;</i>
	No. Pupt.	E1. 1	22.5	24.7	,
•	Cost Differential*	. H.S. K-12	1:00 4:05		•
	Ö	田田	1:00	1.03	
	xp. per Pupil	H.S.	; \$ 743	ī	ţ
,	Exp. B	EI.	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	735	
4		H.S.	838 <sup>(*)</sup> 287	0	. 67
```	Pupils C	E1.	1,819	0 ,	192
			Total No. Pupils (ADM) Basic (General)	Pre-Kindergarten (FTE) Kindergarten (FTE)	Education
	•*	Program	I. Total No II. Basic (	III. Pre-Kindig	V. Special

	•
	ټ
Pre-School	.•
оч Т	<b>3</b> 1

2. EMH. 3. Ed. Hand.

125

. 50.0

4. Comp. (Title I)

1,051

13.0

1,83

1,665

General) Programs in grades \*All cost differentials are based on unit values of 1.00 for Basic

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Table 24 Cont'

Harrisburg 1973-1974.

တျ	•	,		4	•
No. of Teachers	11.3	1.1	2.0	, 3.2	5.0
Pupil-Teachor Ratio	42.8	91.8	85.0	. 33.4	21.2
	9.7	18.2	7.0.	10.0	4.8
Cost Differential** per FTE per ADM*	1.25	1,03	40.4	1.32	1.77
Cost Diff per FTE	2.14.	1.14	1.22	2.08	. 4.33
Exp. per	\$ 929	164	. 776.	984	1,313,
Exp. per FTE	\$1,588	850	606 .	.1,546	3,220
FTE Course Equiv.	.23	.20	.20	.30	.23
No. Pupils FTE	110	. 20	34	32	24
No. Pupils Enrolled	<b>484</b>	101	. 170	107	901
Program	VI. Vocational Ed. (High School)	A. Agriculture	B. Home Ec.	C. Trade & Ind.	D. Bus. & Dist.
	VI.			1	26

<sup>\*</sup>ADM - Average Daily Membership of pupils enrolled part-time in Voc. Ed. and the remainder in Basic (General) Programs.

Table 25

Cost Analysis of Programs

### Jacksonville 1973-1974

	No. of Pupils (	of s (ADM)	Exp. per Pupil	r Pupil	Cost	Cost Differential*	ntial*	1	Pupils per Teacher	Teacher
Program	E1.	, H.S.	ET.	H.S.	17	н.у.	K-12	-12	n.S.	V-17
I. Total No. Pupils (ADM)	3,840	1,106 806	\$ 806	\$ 948	1.00	1.18		22.2	18.6	¢
<pre>III. Pre-Kindergarten (FTE) IV. Kindergarten (FTE) V. Special Education</pre>	193 193	· 69	732	•	.91	٠,	, ,	24.1	• •	
	× .	•	-	•	•	/				
1. Mult. Hand. 2. Emot. Digt.	. 17	•	3,569 2,696		4.43		•	7.4		
	,				*	š		4		
3. EMH .	74.	27	1,760	1,737	2.18	2.16	2.18	11.1	12.1	11.5
4. TMH 5. Ed. Hand.	58 57 67	13 29	2,29/ 1,616	1,638	2.01	1.98	2:00	11.5	13.0	12.0
6. Learning Disab.	, 55	4	2,895		3.95			6.5	•	
***	•	1		·				,	`	•
<pre>4. Speech Corr. 8. Comp. (Title I)</pre>	. 190 168		1;059 1,557		1.31			16.9 11.7		,
" Gifted '	340		929		1.15		•	19.3	,	
· · · · · · · · · · · · · · · · · · ·	*		, , , ,	• .	•	•				

<sup>\*</sup>All cost differentials are based on the unit value of 1.00 for Basic (General) Programs in grades 1-9.

Table 25 Cont'

Cost Analysis of Programs

### Jacksonville 1973-1974

	of		0	2.0.	6	ei Ei	2	1.0	, نه	
	No. of Téachers	12.0	1.0	. 2.	์ ตั	ů.	.v	<b>.</b>	• •	
1	Pupil-Teacher Ratio FTE No. Persons	88	, 96 ,	111	, 91 ,	. £6	20	, 55	23	
	• •	19.2	19.3	17.5	18,3	21.3	10.5	27.6	æ 15	
•	Cost Differential** per FTE per ADM*	66.0	66.0	1.01	00.τ΄	0.97	1.15	0.84	1.41	
*	Cost Dif	.0.97	£ 0.97	1.06	1.02	0.88	4.71	69.0	. 2.13	٠.
•	Exp. per ADM*	\$\$ 942	645	958	951	923	1,089	799	. 1,333	7
<b>v</b>	Exp. per FTE	\$ 920	. 920	1,008	965	833	1,621	. 655	2,018	•
FTE	C PHI	. 22	.20.	16	.20	,22	-, 21	. 13.	.36	?
No.	Pupils FTE	231	19.3	34.9	71.4	70.3	2.1	27.6	5.1	
No.	Pupils Enrolled	1,070	96 .	221	355	3185	10	בָּב	14	<u> </u>
	Program	VI. Vocational Ed. (High School)	A. Agriculture	B. Home Ec.	C. Trade & Ind.	D. Bus. & Dist.	E. Health Occ.	F. Coop-Voc.	G. Work Exp. Coop. Ed.	•
		VI.	•	,	• •	12	<b>Ś</b> .:		•	•

<sup>\*</sup>ADM - Average Daily Membership of pupils enrolled part-time in Voc. Ed., and the remainder in Baute or General Programs.

Table 26.

#### . Marion 1973-197

1973~1974		
97,		
	. *	
	,	
		-
		1

Teacher K-12		9.	13.6 9.7 11.5	18.4
Pupils per Teacher H.S. K-12	18.4	7.7	15.9 8.0 11.3	13.8
No. Pt	22,3,	7.0 25.0 6.3 9.0	11.6 10.5 11.6 13.4	18,5
Cost Differential# El. H.S. K-12		3.48	2.03 3.23 2.45	1.10
Differ H.S.	1.30	3.73	1.84 4.11 2.62	1.74
Cost	1.00	3.47	2.25 2.25 2.25 2.25	1.09
per Pupil	\$1,107	3,172	1,565 3,494 2,228	1,479
Exp. pe	\$ 851	3,904 3,091 2,952 2,913	1,918 2,461 1,915 1,941	928
Of (ADM) H.S.	1,809 1,132 0 * 200	Ħ	110 8 76	, ,
No. of Pupils (AE1.	3,532 2,515 5,0 154 863	46 ·	93 · 21 · 58 67	, 426 , 134
Program	<pre>I. Total No. Pupils (ADM) II. Basic (General) III. Pre-Kindergarten (FTE) IV. Kindergarten (FTE) V. Special Education</pre>	1. Early Childhood 2. Phy. Hand. 3. Hear. Imp. 4. Emot. Dist.	5. EMH 6. TMH 7. Ed. Hand. 8. Learning Disab.	9. Speech Corr. 10. Comp. (Title I)
7 3	, , <u>, , , , , , , , , , , , , , , , , </u>	129		

<sup>\*</sup>All cost differentials are based on the unit value of 1.00 for Basic (General) Programs in grades 1-8.

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Table 26 cont'

Cost Analysis of Programs

Marion

of lers	~	* , ,	0 m :-	,		_	٠
No. of Teachers	24.8	1.8	2.4	9.4 4.8 4.6	7.0	. 1.0	1.6
Cost Differential** Pupil-Teacher Ratio per FTE, per ADM* FTE No. Persons	. 72	73` ' 122 49	70 79 79 50	62 87 36	100 109 45	21 .	45
Pup11-	19.3	21.2 24.3 19.7	17.1 15.8 20.0	17.3 17.3 17.2	19.8 20.1 18.0	12.6	36.0
ferential**	66.0	0.97 0.96 0.98	1.02 1.03 0.98	1.02 1.01 1.05	. 66.0 0.99	1.24	0.70
Cost Diff	097	0.89	1.09 1.17 0.94	1.08 1.06 1.10	0.93 0.92 0.98	1.41	0.62
Exp; per ADM*	\$1,099	1,072 • 1,058 1,090	1,131 1,144 1,083	1,132 1,120 1,161	1;091 1,091 1,100	1,376	773
Exp. per FTE	\$1,079	986 - 860 1,064	1,206 1,293 1,046	1,195 1,172 1,219	1,026 1,017 1,089	1,556	689
FTE Course Equiv.	.27	.29 .20 .40	. 24 . 20 . 40	. 28 . 20 . 48	.20 .18°	09.	.80
No. Pupils FTE	477	38.2 14.6 23.6	68.2 .44.2 .24.0	162.4 83.2 79.2	.138.4 120.4 18.0	12.6	57.6
No. Pupils' Enrolled	1,784	132 73 59	281 221 60	581 416 165	697 652 45	, 21	72
Program	VI. Vocational Ed. (High School)	A. Agriculture 1. General 2. Occ.	B. Home Ec. 1. General 2. Occ.	C. Trade & Ind. 1. General 2. Occ.	<ul><li>p. Bus. &amp; Dist.</li><li>1. General</li><li>2. Occ.</li></ul>	E. Health Occ.	F. Coop.Woc.
Proj	VI.		1	130			

<sup>\*</sup>ADM - Average Daily Membership of pupils enrolled part-time in Voc. Ed. and the remainder in Basic or General Programs.

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Table 27

Mattoon 1973-1974

	•			•
Teacher K-12			16.2	
No. Pupils per Teacher El. H.S. K-12	19.2		14.5	
No. Pt	21.4	0.9	17.3 14.0 19.6 10.0	15.8
Cost Differential* El. H.S. K-12		·	1.36 2.06	
Differ H.S.	1.15		1.55	•
Cost	1.00	5.32	1.25 1.87 1.44 2:16	1.35
Exp. per Pupil El. H.S.	. \$. 947	,	1,278 - 2,152	
Exp. pe	\$ 824	4,384	1,032 , 1,544 1,187 1,781	1,110
of (АДИ) H.S.	1,706 1,234 0 49		29 20	
No. of Pupils (AEI. H	3,494 2,494 0 171 829	<b>.</b>	.52 56 153 20	320 222
Program	I. Total No. Pupils (ADM) II. Basic (General) III. Fre-Kindergarten (FTE) IV. Kindergarten (FTE) V. Special Education	l. Pre-School	2. EMH 3. TMH 4. Ed. Hand. 5. Learning Disab.	6. Speech 7. Comp. (Title I)

<sup>\*</sup>All cost differentials are based on the unit value of 1.00 for Basic (General) Program in grades

Table 27 cont'

Mattoon 1973-1974

No. of	Teachers	29.6	1.0	5,5	14.0	0.6	0.1	•
Cost Differential** Pupil-Teacher Ratio	No. Persons		120 4	67	. 64	102	06	
Pupil-Tea	FIE	14.3	22.0	12.0	,11.5	21.4	, 0.6	•
erential**	per ADM*	1.07	86.0	1.15	1.19	0.98	1.11	•
Cost Diff	per FrE	1.30	0.88	1.62	1.70	0.91	2.12	
Exp. per	ADM*	\$1,010	927	1,088	1,125	929	1,053	/.
Exp. per Exp. per	FTE	\$1,234	. 836	1,53€	1,606	861	2,004	<i>,</i>
FTE	Equiv.		.18	.24	.27	.21	.10	•
No. Pupils	FTE	423	23	. 99	161	-1-93	6.	,
No. Pupils	Enrolled	1,922	120	271	. 602	920	, ক	
	Program	VI. Vocational Ed. (High School)	A. Agriculture	B. Home Ec.	C. Trade & Ind.	D: Bus. & Dist.	E. Health Occ.	•
 	<u> </u>	VI.	,		<u> </u>		13	2.

<sup>\*</sup>ADM - Average Daily Membership of pupils enrolled part-time in Voc. Ed. and the remainder in Basic, or General Programs.

Tabie 28

Molíne 1973-1974

Teacher	N-12	.•			15.4	
No. Pupils per Teacher	n.o.	21.0	•		17.0	
No. Po	- 12	25.3	25.9	7.0	15.2	18.2 16.7 12.9
ential*	7T_V	•			1.90	•
Cost Differential*		1.28		*	1.72	•
Cost	77	1.00	0.97	1.66	1.93	1.40
Exp. per Pupil	H.S.	\$1,141	3		1,,528	
Exp. pe	. E	\$ 888	858	1,471	1,711	1,240 1,373 1,997
of (ADM)	H.S.	1,974	17	<b>A</b> .	17	, ,
No. of	EI.	8,608 6,884	427	14 42	,91 145	380 555 70
	Program		III. Fre-hindergarten (FTE) IV. Kindergarten (FTE) .V. Special Education -	1. Pre-School 2. Hear. Imp.	3. Ehit 4. Learning Disab.	5. Speech Corr: 6. Comp. (Title I) 7. Bilingual
			- H	·.:	123	i th

<sup>\*</sup>Ail cost differentials are based on the unit value of 1.60 for Basic (General) Programs in grades 1-9.

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Table 28 cont

Moline

							*********
No. of Teachers	33.0 ,	1.0	.5.4 4.0 1.4	13.4 10.4 3.0	12.6 10.6 2.0	. 9.0	
Cost Differential** Pupil-Teacher Ratio		12	79 86 60	. 72 80 45	, 61 67 30	23	
Pupil-Te	14.2	4.2	16.2 17.2 13.6	15.3 14.4 18.3	13.2, 13.4 12.0	. 2.6	
rential**	1:11	27.26	1.06	1.12	1.11	1.45	
Cost Diffe per FTE	1.54	4.61	1.30 1.22	1.59	1.51. 1.48 **	2.16	
Exp. per ADM*	\$1,271	<b>~</b> 2,583	1,213 1,191 1,296	1,281. 1,275. 1,328.	1,270 1,251 1,463	1,657	•
Exp. per FTE	\$1,758	5,261	1,484 1,392 1,814	1,809 1,887 1,597	1,727. 1,690 1,946	2,463	
FTE Course. Egulv.	.21	.35	.2 .2 .23	. 21 . 18 . 41	20 05.	.39	
No. Pupils FTE.	. 467.8	4.2	87.6 68.6 19	204.5 149.5 55	166 142 24	5.5	4
No. Pupils Enrolled	2,192	12	427 ,343 84	835 135	769 709 60	14	
Program	VI. Vocational Ed.	A. Agriculture	B. Home Ec. 1. General 2. Occ.	.C. Trade & Ind. 1. General 2. pcc.	D. Bus. & Dist. 1. General 2. Occ.	E. Health Occ.	,
	I,		•	134			

<sup>\*</sup>ADM - Average Daily Membership of pupils enrolled part-time in Voc. Ed. and the remainder in Basic or General Programs

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Table 29

.Mt. Carmel .

	. ,	. ,	*	
Teacher K-12		. 0.3	12.3	
No. Pupils per Teacher El. H.S. K-12	16.8		18.0	
No. Pu	24,1	. 5.0	9.5 14.0 8.5 8.3	13.1
Cost Differential*	•		2.03	
Differ H.S.	1:00 - 1.52		1.52	
Cost E1.	1:00	4.60	2.52 2.60 2.80 2.20	1.30
per Pupil	\$1,060	•	1,060	
Exp. pe	\$ 697	3,209	1,755 1,674 1,954 1,532	903 1,160
of (ADM)	844 652 . 0 . 18	,	138	•
No. of Pupils (ADM El. H.S	1,647 1,183 0 0 96	<b>'</b>	19 14 34 51	147
Program	Total No. Pupils (ADM) Basic (General) Pre-Kindergarten (FTE) Kindergarten (FTE) Special Education	1. Mult. Hand.	2. EMES 3. TMH 4. Ed. Hand. 5. Learning Disab.	6. Speech Gorr. 7. Comp. (Title I)
	HHHH A	٠.	125	-

<sup>\*</sup>All cost differentials are based on the unit value of 1.00 for Basic (General) Programs in grades 1-8.

Table 29 cont'

Mt. Carmel

		. `	✓.	, e	2	*
No. of	11.9	1.1	2.0	9.6	3.0	. 2
Cost Differential** Pupil-Teacher Ratio per FTE per ADM* FTE No. Persons	. 99	. 62	58	. 48	103	100
Pupil-Te FIE N	14.8	11.7	12.5	13.0	.20.3	15.0
per ADM*	, 1.03	1.08	1.08	1.08	0.97	1.01
Cost Diffe	1.16	1.44	1.35	1.30	0.86	1.08
Exp. per ADM* · ,	\$1,097	1,149	1,142	1,146	1,029	1,073
Exp. per FTE	\$1,228	1,527	, 1,433	1,379	, 90	1,148
FIE Course Equiv.	.22	.19	.22.	.27	.20	.15
No. Pupils FTE	174	13	25	72 ,	, 61	່ຕ
No. Pupils Enrolled	784	. 89	, 911	271	309	. 50
Program	VI. Vocational Ed. (High School)	A. Agriculture	B. Home Ec.	C. Trade & Ind.	D. Bus. & Dist.	E. Health Occ.
• , ^	ŷI.			1	L20	<b>;</b>

Average Daily Membership of pupils enrolled part-time in Voc. Ed. and the remainder, in Basic or General Programs

Table 30

Mt. Vernon (E1. and H.S.) 1973-1974

Teacher K-12	*	13.9	. 18.6 16.5
No. Pupils per Teacher	18.7	15.3	18.5
No. P	27.3	10.0 12.0 12.0, 7.0	18.9 12.7
Cost Differential*		2.16	1.62 /
c Differ	1.76	2.12	1.79
Cos	1.37	2.20 2.20 2.24 2.84	2.11
per Pupil	\$1,085	1,307	1,103-
Exp. P	\$ 617	2,036 1,356 1,385 2,851	875
No. of pils.(ADM)	1,854 .566 .566 .664	222	430
No. of Pupils:(AI	2,263 1,727 1,727 108 108	10 12 12 30 30	134
	upils (ADM) red) arten (FTE) a (FTE) cation	. Mult. Hand. EMH . TMH . Ed. Hand. . Learning Disab.	6. Speech 7. Comp. (Title I)
#	Total No. Pupils (ADM) Basic (General) Pre-Kindergarten (FTE) Kindergarten (FTE)	1. Mult. Hand. 2. EMH 3. TMH 4, Ed. Hand. 5. Learning Di	6. Speech 7. Comp.
É	III. III. IV.	127	

Table 30 cont.
Cost Analysis of Programs

Mt. Vernon (E1. and H.S.) 1973-1974

	, Program	No. Pupils	No. Pupils FTE	Course Equiv.	Exp. per FTE	Exp. per ADM*	Cost Differential ** per FTE per ADM*	rential **		Pupil-Teacher Ratio FIE No. Persons	No. of Teachers
5	VI. Vocațional Ed. (High School)	2,705	624	.23	\$ 892	\$1,041	0.82	ν. 96°.	23.1	1000	27.0
•	A. Agriculture 1. General 2. Occ.	170	44 24 20	20 20 40	972 863 1,036	1,0%	0.80 0.95	0.95	2350 24.0 20.0	85 120 50	, , , , , ,
103	B. Home Ec. 1. General 2. Occ.	463 420 43	101 84 17	20 50 40	862 885 -750	1,036 1,045, 951	0.79	0.95 0.98 0.88	24.1 23.3 28.3	110 117 71	3.6
3	C. Trade & Ind. 1. General 2. Occ.	, 1,173 985 188	272 197 75 7	23.	893. 687 1,433 ×	1,005	0.82 0.63 1.32	0.96 0.93 1.13	23.1 30.8 13.9	, 99 154 35	11.8. 6.4 5.4
_	D. bus. & Dist. 1. General 2. Occ.	863 765 98	192 153	22 29	861 877 799	1,036 1,043	0.79	0.95	. 54.0 23.5 26.0	108	8.0 6.5
	E. Health Occ.	38	15	.40	1,334	1,185	1.23	3.09	15.0	38.	1.0
٠		-		~		•				>	•

<sup>-</sup> Average Daily Membership of pupils enrolled part-time in Voc. Ed. and the remainder in Basic or General Programs

Table 31

### Peoria 1973-1974

El. 12 K.-8 .--. 'H.S. = 9

Pupils per Teacher, H.S. K-12	28,4	11.5 9.1	4.5 3.8 13.7 11.4	11.9 12.1 11.7 10.21	
No. Pupi	21.3			12.2 7.4 9.7	11.9 8.2 25.3
K-12		1.81	6.5 1.45	1.53	•
Cost Differential* El. H.S. K-12	0.80	1.37	1.10	1.56	
Cost E1.	1.00	3.71 1.98 3.09	2.54 8.43 2.20 3.46	1.52 2.61 2.32	1.95 2.96 0.75
Exp. per Pupil El. H.S.	\$ 883	1,520	4,981	1,730	
Exp. 1	\$1,108 1,034	4,108 2,197 3,421	2,815 9,337 2,441 3,833	1,638 2,896 2,574	2,161 ·3,281 828
of (ADM) H.S.	6,811 6,287 227	<b>5</b> 8	. 45 ,	35	
No. 6 Pupils El.	15,847 13,666 903	65 (12) 71		353 74 102	., 155 , 74 253
Program	I. Total No. Pupils (ADM) II. Basic (General) 1-8 III. Kindergarten - Basic IV. Special Education	1. Early Help - DLC 2. Phy. Hand. (Orthopedic) 3. Deaf	5. Partial Seeing 6. Home-Hospital 7. Emot. Dist.	8. EMH 9. TMH 10. Learning Disab.	11. Speech Corr. 12. Comp. (Title I) Gifted

Table 31 cont'

Peoría High School (9-12) 1973-1974

	, .				
•	No. of Teachers	٠	20.8	23.2	22.8
	Cost Differential** Pupil-Teacher Ratio No. of per FTE per ADM* FTE No. Persons Teacher	22.2	23.1,	19.4/	24.2
	Pup11-T	7.7	4.6	3,9	6.4
,	Cost Differential** per FTE per ADM*	1.84	1.79	2.03	1,79
	Cost Diff	5.21	4.97	6.10	4.95
	Exp. per ADM#	\$1,627	1,584	1,784	1,580
	Exp. per	\$4,603	766,4	5,389	4,370
<i>;</i>	Course Equiv.	.20	.20	.20	.20
	No. Pupils FIE	297	96	06	, 111
•	No. Pupils Enrolled	1,484	. 480	451	553
· 5	Program	V. Vocational Ed. (High School)	A. Home Ec.	B. Trade & Ind.	C. Bus. & Dist.
^,		÷.			

4.95

\*ADM - Average Daily Membership of pupils enrolled part-time in Voc. Ed. and the remainder in Basic or General Programs. \*\*Based on unit value of 1,00 for high school basic (\$883)

<sup>140</sup> 

Table 32

.Quincy \_1973-1974

<sup>\*</sup>All cost differentials are based on the unit value of 1.00 for Basic (General) Programs in grades 1-8,

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ost Analysis of Programs

#### Quincy 1973-1974

				_		•	
No. of Teachers	18.3	.1.60	2.0	10.60	3.10	1.0	
Cost Differential** Pupil_Teacher Ratio	41	.29	67	35	. 65	36 4	***
Pupil-Tea	8.25	2.88	9.,80	7.00	13.10	7.20	`,`
erential **	1.31	1.51	1.24	1.40	1.12	1.38	
Cost Diff	2. 55	3.57 (	2.22	300	1.60	2.91	•
Exp. per ADM*	\$1,383.	1,598	1,312	1,476	1,182	1,459	•
Exp. per FTE	\$2,693	3,768	2,340	3,162	1,690	3,074	
FTE Course		. 2.	.2	. 7	.2	.2	
No. Pupils		9.6	19.6	74.2	40.6	7.2	
No. Pupils Enrolled.	755	, <u>, , , , , , , , , , , , , , , , , , </u>	98	371	203	36	•
Prooram	VI. Vocational Ed. (High School)	A. Agriculture	B. Home Ec.	C. Trade & Ind.	D. Bus. & Dist.	E. Health Occ.	
•	,VI.	,		-	•	· 1	

\*ADM .. Average Dally Membership of pupils enrolled part-time in Voc. Ed. and the remainder in Basic or General Programs

-127-Table 33

#### 1973-1974 Robinson

		No. of Pupils (4	f (ADM)	Exp. per Rupil	r Rupil	Cost	Cost Differential*	xt1a1*	No. Pu	No. Pupils per Teacher	eacher
	Program	, E1,	H.S.	E1.	H.S.	E1.	H.S.	K-12	E1.	H.S. /	K-12
74	I. Total No. Pupils (ADM)	1,431	683 237	\$ 894	\$1,148	1.00	1.28	೬	19.8	15.0	-
	II. Pre-Kindergarten (FTE) IV. Kindergarten (FTF)	6,	0	922	*	1.03	v	•	19.1		<b>)</b>
1	V. Special Education	256	289				•			,	•
	1. Hear. Imp.	4		4,349	•	4.86		•	4.0		
1	.2. EMH	. 13	37	2,675	1,325	2.99	1.48	1.87	. 5.9	12.9	10.3
43	3. Speech Corr.	72 . 84	214	1,243	1,144	1.39	1.28	, 1.33	14.1 13.5		. 14.6
×.	Gifted	83	. 38	768	1,148	1.00	1,28	1.09	21.7	, 15.01	719.4
•					•			٠.,	ŧ	*	

<sup>\*</sup>All cost differentials are based on the unit value of 1.00 for Basic (General) Programs in grades 1-8.

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Table 33 cont' Cost Analysis of Programs

### Robinson 1973-1974

No. of Teachers		7.	2,0	6.1	.3.2
Cost Differential** Pupil-Teacher Ratio	29	75	. 81	464	. 6
Pupil-T	13.4	, 15.0	16.1	6.9	19.4
erential**	0.98 13.4	1.00 1.5.0	. 66.0	1.12	_ 96.0 _
Cost Diff	. 0.92	1.00	. 0.93	1,58	0:78
Exp. per	. \$1,130	1,148	1,132	1,282	1,098
Exp. per FTE	\$1,086	1,149	1,070	1,819	668
FTE Course Equiv.	. 20	.20	.20	.20	.20
No. Pup.(1s FTE	157	9	32.2	9.95	62.0
No. Pupils Enrolled	784	30	191	, 583	310
Program	VI. Vocational Ed. (High School)	A. Agriculture	B. Home Ec.	C. Trade & Ind.	D. Bus. & Dist.
	yı.				

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\*ADM - Average Daily Membership of pupils enrolled part-time in Voc. Ed. and the remainder in Basic or General Programs.

-129-Table 34

1973-1974 Rockford

	No.	of		•			•		,		
,	Pupils (A	(ADM)	Exp. pe	per Pupil	Cost	Cost Differential*	ntial*	No. Pupils per Teacher	ls per	Teacher	
Program	EI.,	H.S.	E1.0	H.S.	E1.	H.S.	K-12c	E1.	H.S.	K-12	
				,•	•			*	,	-	
I. Total No. Pupils (ADM)	28,489	11,582			t						
II. Basic (General)	16,193	10,516	`\$ 80 <b>2</b>	\$ 972	1.00	1.21		24.3	21.9	•	
III. Pre-Kindergarten (FTE)	· 0	0		,		•		•			
IV. Kindergarten (FTE)	3,147		809		1.01			., 23.9		,	1
V. Special Education	9,149	266			,		,		,		
• •					•.		•		,		
1, Pre-school	67	,	2,230		2.78			. 12.3			
2. Mult. Hand;	37	, N	3,678	.686.7	4.59	8.22	5.00	7.4.	5:0	7.3	
3. Phy. Hand.	70		2,729	•	3.40		•	. 10.0			,
4. Hear. Imp.	88.	12	4,954	4,158	6.18	5.18	90.9	ιų ·	0.9	5.6	
5. Partial Seeing	26	S	3,150	4,589	3.93	8.22	4.62	.8.7	5.0	7.8	•
6. Home-Hospital	20	16	6,805	6,236	8.49	7.77	8.17	0.4.	4.0	4.0	
7. Lang. Develop.	16	•	3,034	,	3.78	.=		<b>7.9</b> .	•,	··••	
8. Emot. Dist.	09		2,257	• ·	2.81			8.6		•	
<b>出祖</b> · 6	- 586	215	1,718	1,508	2.14	1.88	2.07	15.8	16.5	. 0.91	
	96	46	3,771	1,085	4,70-	1.35	3.60	7.2	23.0	9.3	
11. Learning Disab.	2,316	267	1,120	1,663	1.40	2.07	1,41	17.3	15.7	17.2	
	1,612		1,072	<u>.</u>	1.34			18.0	`		
13. Comp. (Title I)	3,742		1,121	•	1.40		,	17.8		•	
	483		970	•	1.21		¥	20.8		r	
				,					,		

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<sup>\*</sup>All differentials are based on the unit value of 1.00 for Basic (General) Programs for grades 1-8.

Table 34 cont

### Rockford 1973-1974

•	· 64]	VI. V.	A	ρά	S	14	
	Program	VI. Vocational Ed. (High School)	A. Agriculture	B. Home Ec.	C. Trade & Ind.	D. Bus. & Dist.	E. Health Occ.
No. Pupils	Enrolled	1,000	0	50	. 450	200	300
No. Pupils	FTE	500	0	25	225	100	150
FTE Course	Equiv.	.50	*	. 50	. 20	. 05.	. 50
Exp. per	FTE	\$1,335		1,457	1,187	1,213	1,619
Exp. per	ADM*	\$1,154		1,215	, 080,1	1,093	1,296
Cost Diff	per FTE	1.37	•	.1.50	1.22	11.25	19:1:
Cost Differential**	per ADM*	1.19	,	.1:25	1.11	1.12	.1.33
Pup11-T	FTE	18.2		16.7	20.5	20.0	15.0
Pupil-Teacher Ratio	No. Persons	36.4		33.3	41.0	40.0	30.0
No. of	Teacher's	27.5	,a	1.5	11	īU.	10

<sup>\*</sup>ADM - Average Daily Membership of pupils enrolled part-time in Voc. Ed. and the remainder in Basic or General Programs.

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Table 35

Rock Island 1973-1974

	**	,	•		`
Teachèr K-12		· .	14.5	22.2	,
No. Pupils per Teacher El. H.S. K-12	16.6	`, .	16.0	14.5	*
No. Pu	23.0	na 10.0 5.5	14.2 12.2 9.6	12.5	, , ,
ntial* K-12	,	•	1.74	1.09	
Cost Differential* El. H.S. K-12	E		1.40	1.55	
Cost E1.	1.00	.86 2.65* 4.47	1.81 2.17 2.37	1.84	1
Exp. per Pupil El. H.S.	; \$1,306 `		1,372	1,518	* **
Exp. pe	\$ 982	, 845 2,599 4,389	1,779 2,132 2,329	1,806	
of (ADM) . H.S.	2,222 1,797 156		16 33	107	`
No. of Pupils (Al	8,519 6,809 0 446 1,264	180 10 11	71 73 153	200 566	
Program	I. Total No. Pupils (ADM) II. Basic (General) III. Pre-Kindergarten (FTE) IV. Kindergarten (FTE) V. Special Education	<ol> <li>Pre-School</li> <li>Phy. Hand.</li> <li>Partial Seeing</li> </ol>	4. EMH 5. TMH 6. Learning Disab.	7. Speech Corr. 8. Comp. (Title I)	
	HHA		147		

<sup>\*</sup>All cost differentials are based on the unit value of 1.00 for Basic (General) Programs for grades 1-9.

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Table 35 cont'

Cost Analysis of Programs

Rock Island 1973-1974

No. of Teachers	24.4	ო	9.5	8.5	ന	
Cost Differential** Pupil-Teacher Ratio	67 .	37	. 69	09	25.	
Pupil-Te FTE	11.0	10.01	6.6	12.1	12.3	
rential*	1.17	.1.23	1.18	1.11	•	`
Cost Diffe per FTE	.1.77	1,85	.1.87	.1.54	2.12	ş
Exp. per ADM*	\$1,532	1,667	1,535	1,446	l	•
Exp. per FTE	\$2,307	2,422	2,448	2,007	2,765	, •
FTE Course Equiv.	.226	.27	.20:	20.	.50	
No. Puptls FTE	269	, 30	16	111	37	
No. Pupils Enrolled	1,192	112	. 453	553	74	•
Program	VI. Vocational Ed. (High School)	A. Home Ec.	B. Trade & Ind.	C. Bus. & Dist.	D. VocDrop-outs (Half Day)	-
	Ď	_			1	48

<sup>\*</sup>ADM. - Average Daily Membership of pupils enrolled part-time in Voc. Ed. and the remainder in Basic or General Programs. \*\* Based on unit value of 1.00 for high school basic (\$1306).

Table 36

Vandalia 1973-1974

	•	-		
Feacher K-12	•		14.3	·
No. Pupils per Teacher El. H.S. K-12	15.0		18.0	•
No. Pul	23.3	3.0	13.0	16.7
nt1a1* K-12	· · · · ·	٧.	1.71	· ·
Cost Differential* El. H.S. K-12	18°F.		1.53	
Cost E1.	1.21	7.59	1.79 2.41. 2.42	1.38
Exp. per Pupil El. H.S.	\$1,120	٢	946	·
Exp. pe	\$ 620	4,707	1,109 1,493 1,498	855 1,112
(ADM) H.S.	589 439 0 18		18 18	v
No of Pupils (ADM) El. H.S.	1,520 1,232 0 48 240	<b>ო</b>	39 19 17	70
Program	I. Total No. Pupils (ADM) II. Basic (General) III. Pre-Kindergarten (FTE) IV. Kindergarten (FTE) V. Special Education	1. Pre-School	2. EMH 3. TMH 4. Learning Disab.	5. Speech Corr. 6. Comp. (Title I)
	III. IIII. IV.	٠,	143	

<sup>\*</sup>All cost differentials are based on the unit value of 1.00 for Basic (General) Programs in grades 1-9.

Table 36 cont

### Vandalia

### 1973-1974

							*	
No. of	Teachers	<b>,</b> 00	· 5.	3.	9	H	<b>러</b>	
Cost Differential** Pupil-Teacher Ratio	No. Persons	. 59	30	. 28	.28	43	22	
k Pupil-Te	FIE	14.7	15.0 ,	14.0	14.2	21.5	11.0	·
erential*	.per ADM*	1.01	1.01	1.04	1.03	98.0	1.17	,
Cost Diff	per FTE	1.03	1.01	1.07	1.06	0.72	1,35	
Exp. per	· ADM*	\$1,136	1,127	, 1,161	1,155	996	1,314	
Exp. per	KIE	\$1,152	1,134	1,201	1,190	811	1,508	
FTE	Equiv.	, v.	.5.	<b>ن</b>	.5	.5	٠, ١٠,	
No. Pupils	FTE	132	7.5	1	85	21.50	. #	
No. Pupils	Enrotted	. 564	15	14	170	43	. <b>7.</b>	•
	rrogram	VI. Vocational Ed. (High School)	A. Agriculture	B' Home Ec.	C. Trade, & Ind.	D. Bus. & Dist.	E. Health Occ.	,
		VI.		_	. 1	٠,	150	<b>3</b> .

\*ADM - Average Daily Memberghip of pupils enrolled part-time in Voc. Ed. and the remainder in Basic or General Programs. \*\* Based on unit value of 1.00 for high school basic (\$1120).