RETENTION IN HIGH SCHOOLS IN LARGE CITIES

A Report of a Study of School Holding Power Conducted in Cities of Over 200,000 Population in Cooperation with the Office of Education

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FOREWORD

ONE OF the major problems confronting the leaders of our Nation today is the acute shortage of competent manpower. This problem is recognized in government, business, industry, and education. It has motivated professional groups as well as business and industry to develop incentive programs that have as their aim the proper training and eventual fectuitment of high school and college graduates. For school administrators this problem has brought into sharp focus two important objectives with relation to American youth:

- 1. Encouraging youth to plan and follow with success educational programs which capitalise to the fullest on individual interests, aptitudes, and educational potentials.
- 2. Reducing to a minimum early school leaving, which represents a serious loss to individuals as well as to society.

The first of these objectives points to secondary school program and to adequate guidance services. It was the second need which prompted superintendents of schools in cities of over 200,000 population to request the Commissioner of Education to plan work conferences which might lead to a constructive approach to the problem. Two work conferences were held—the first in January 1950, and the second in February 1951.

Though many promising avenues of approach were agreed upon by the conference participants, it became apparent that a uniform system of pupil accounting would become imperative to a nationwide study. Such a system was developed during the second work conference. It became the basis of a four-year study of school dropouts in 14 large city school systems, beginning with the ninth-grade class of September 1951.



The study which is reported in this bulletin classifies students according to sex and reason for dropout. It provides comparisons of school holding power during grades 9, 10, 11, and 12.

Although this report, in the main, restricts itself to those significant findings that throw light upon the problem of pupil dropout, it is hoped that the report will encourage independent research of greater magnitude by school systems and individual schools. The report attempts to insure clarity through the use of simple tables and graphs. However, the statistics do not reflect the involved and complex operations that were necessary to gather and process the facts:

Twenty-two cities cooperated in various phases of the study over a period of four years. This type of cooperation by the Office of Education and these large cities is unique in the history of the Office of Education and shows awareness and interest in a major educational problem.

E. GLENN FEATHERSTON

Acting Assistant Commissioner

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Retention in High Schools In Large Cities

INTRODUCTION

THIS STUDY of School Holding Power is based upon a system of pupil accounting which was started with the beginning ninth-grade class of September 1951. The study follows this class through a fouryear period and accounts for all pupils who had entered or who had left the study group for any one of many reasons including transfer.

The forms developed for use in the participating school systems divide all pupils removed from the study group into two main categories—Involuntary Withdrawals and Voluntary Withdrawals. Involuntary Withdrawals include pupils who drop out for neasons over which a school presumably has little or no control, whereas Voluntary Withdrawals include pupils who drop out for reasons over which a school presumably has considerable control.

Although transfers to other schools or other school systems are not considered dropouts, such transfers purposely are classified as Involuntary Withdrawals. This method simplified reporting and makes certain that all pupils are accounted for in a uniform manner. The amount of such transferring among schools is important in itself. All pupils transferred into or out of the study group are taken into consideration when establishing a base figure (true class membership). This base is used in calculating the dropout rate.

The main purpose of this study originally was to determine accurately, by means of a uniform system of pupil accounting, the extent of, and the reasons for, pupil dropout. However, the study





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also reveals the degree of mobility among the student body that was studied. The facts emphasize not only that the study group was fluid but that the size of the group was affected considerably by factors other than dropout. This has reference particularly to the increase or decrease in enrollment from one year to the next, due to transfer.

In computing both types of holding power, as defined above, for a school or school system over a four-year period, it becomes necessary first to determine the holding power for each year during that period. This is based upon class membership during a given year and pupil dropouts during the same year. The holding power then is determined by applying consecutively the holding power for each of the four years. This eliminates the effects of extraneous factors such as acceleration, retardation, and transfers in or out of a school system.

Complete data were available on 14 of these cities and it is on these data that the tables and charts are based. For most purposes the data are divided into two groups of cities. These cities, divided into the two groups, are: Group A (Population 200,000 to 1,000,000)—Cincinnati, Columbus, Indianapolis, Louisville, Minneapolis, Newark, Omaha, Pittsburgh, San Diego, San Francisco, and Youngstown; Group B (Population over 1,000,000)—Chicago, New York, and Philadelphia.

The terms Involuntary Withdrawals and Voluntary Withdrawals are basic to the understanding of holding power and true holding power. Involuntary Withdrawals and Voluntary Withdrawals were defined by the conferences which set up this cooperative study. Involuntary Withdrawals were defined as those over which the schools were presumed not to have control. They were: (1) Left schoolwhereabouts not known; (2) excused-physical disability; (3) excused, uneducable; (4) drafted into the Armed Forces; (5) deceased; (6) institutionalized, and others in like categories. Voluntary Withdrawals were defined as those withdrawals over which the school presumably has some control. These were: (1) Entered employment; (2) needed at home; (3) enlisted in the Armed Forces; (4) married; (5) dropped, not employed nor needed at home; (6) inability to adjust, and those in a like category. True holding power is defined as retention based on Voluntary Withdrawals alone, whereas holding power, without the adjective, is defined as retention based on the total of Involuntary and Voluntary Withdrawals.

HOLDING POWER

ACTUAL CLASS MEMBERSHIP DURING THE FOUR YEARS OF

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INTERPRETATION

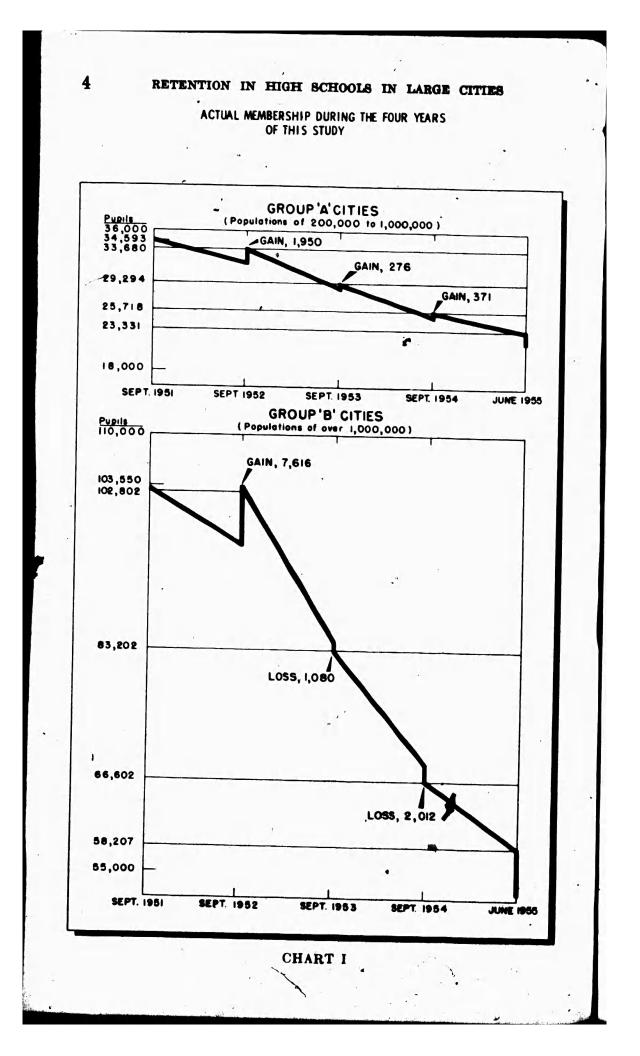
- 1. Chart I, showing actual class membership during the 4 years of the study, emphasizes the importance of factors other than dropout in computing school holding power. These factors include transfers in or out of a school system, retardation, acceleration, and reentry after dropout.
- 2. The net effect of factors other than dropout is shown graphically for the second, third, and fourth years of the study by a vertical rise or drop (Chart I) at the beginning of each year. The plotting of a similar gain or loss for the first year was impossible because of the manner in which first-year memberships were reported.
- 3. Group A cities follow a consistent pattern of net gain in membership due to factors other than dropout. These gains are 1,590, 276, and 361 pupils respectively. Group B cities show a mixed pattern, with a relatively large gain of 7,616 pupils during the second year of the study and losses of 1,080 and 2,012 pupils during the third and fourth years.
- 4. The vertical drop shown at the end of the fourth year of the study represents a residue of pupils not graduating but remaining in school (retardation). A similar group of pupils was absorbed by the study group during the previous year.
- 5. Chart I points to a serious error that would be made in computing school holding power by comparing the number of pupils at the beginning of the study with the number in school just prior to graduation four years later.

HOLDING POWER

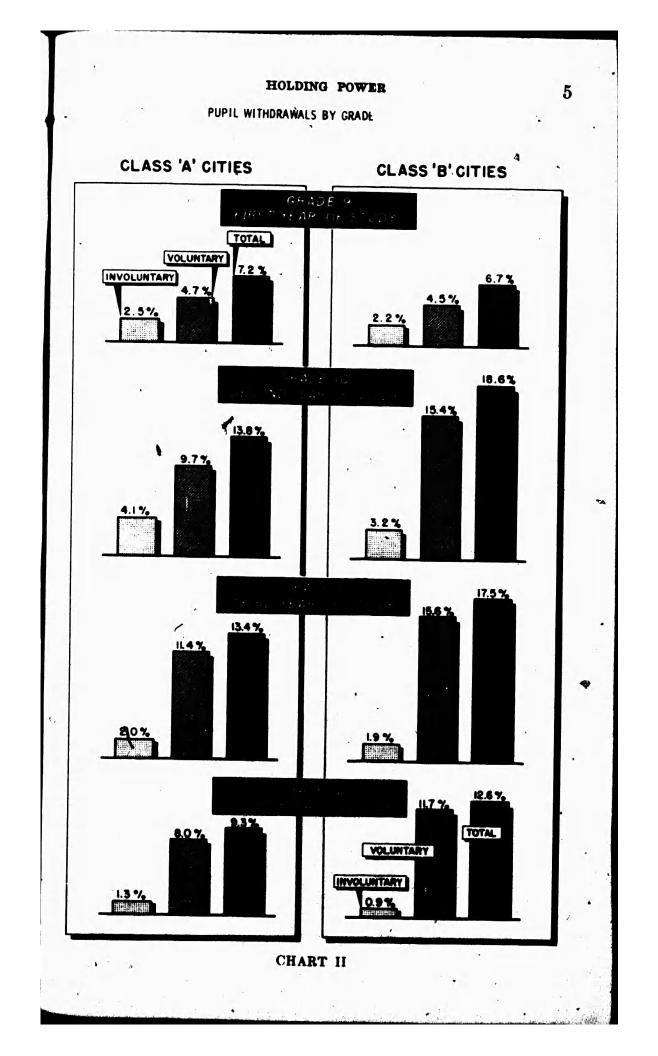
As indicated previously, holding power in high schools cannot be calculated directly by noting the membership at the beginning of the 9th grade and at the end of the 12th grade. Such a method is erroneous for use in any school district or city. Even when used with States, it would be questionable. The calculation of holding power may be divided into steps. The first step is essentially the calculation of the percentage for each year and the second step is the correction of these figures for the varying populations in each year. How and why this is done will become apparent.

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RETENTION IN HIGH SCHOOLS IN LARGE CITIES

PUPIL WITHDRAWAL BY GRADES

First Step

The first step for calculating the holding power of the two groups of cities—Group A (cities from 200,000 to 1,000,000 in population) and Group B (cities of 1,000,000)—is shown in Chart II. The percentages for Involuntary and Voluntary are obtained by using the number of such withdrawals and dividing by the true membership, the latter term meaning the membership of any grade minus the transfers. These true or base memberships for each year appear in the Appendix under items A-T-I, A-T-II, A-T-III, and A-T-IV.

		Group A citie	8		Group, R citte	N
Year of study	Involun- tary With- drawals	Voluntary With- drawals	True Membership	Involun- tary With- drawals	Voluntary With- drawals	True Membership
1. The data:						
First	880	1, 623	34, 593	2, 246	4, 622	102, 80
Second		3, 280	33, 680	3, 334	15, 934	102, 50
Third.		3, 348	29, 294	1, 576	13, 012	83, 20
Fourth		2, 065	25, 718	582	7, 813	66, 60
•		• Iı	voluntary	Withdraws	Ĵs	1
2. Calculations			Percent	-		Percent
First	and the second se	100) + 34, 5		(2, 246×1	(00) + 102,	
Second		00) + 33, 6		(3, 334×1	0) + 103,	550=3.2
Third		00) + 29, 2			00) + 83,	
Fourth	. (322×1	00) + 25, 7	18 <i>∓</i> 1.3	(582×1	00) + 66,	602=0.9
		1	oluntary V	Vithdrawal		4
			Percent			Percent
First.		00) + 34, 5	93 = 4.7			802= 4.5
Second	$(3, 280 \times 1)$	00) + 33, 6	80= 9.7			550 = 15.4
Third Fourth		(00) + 29, 2		the state where the state of the state		202 = 15.6
rourth	(2, 000 X I	00) + 25, 7	18= 8.0	(7,818×	100) + . 66,	602=11.7
	To	tal Volunt	ary and Inv	oluntary V	Vithdrawa	la 1
There	10 000		Percent		and the	Percent
First	1-1-0-01	00) + 34, 5		(6,868×)		
Third		00) + 33, 6		(19,268×1		
Fourth		(00) + 29, 29, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20		(14,588×1		
* vul #1	(a, 00/ X1		10= 9.8	(8,395×1	(UU) + 66,	002=12.6



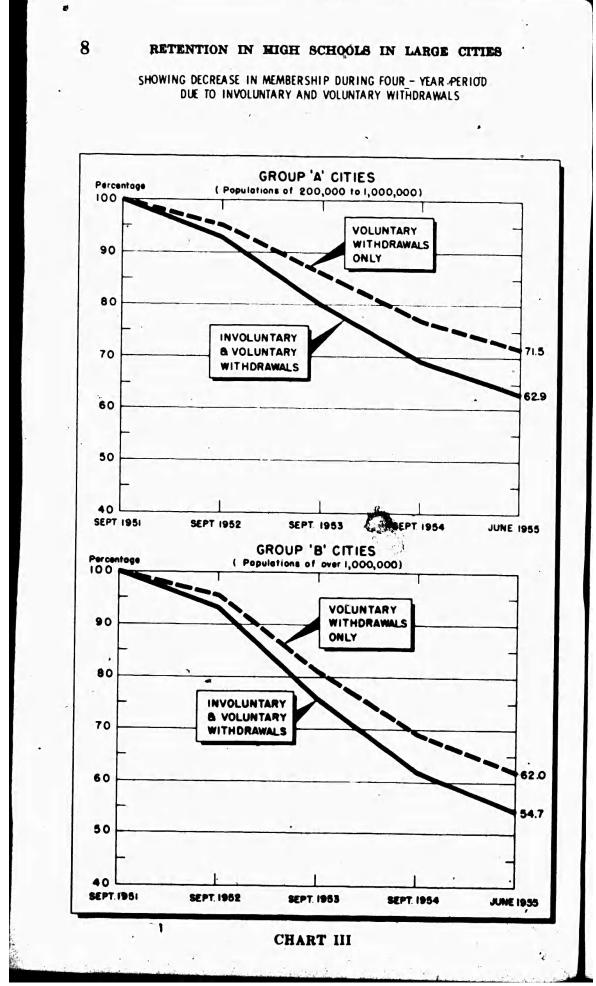
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Second Step

The second step is to find the withdrawal for all four years, for the voluntary withdrawals and for the total withdrawals. To do this, it is necessary to use a new base each year since the base becomes smaller year by year. The new base for each year is the base of the year before minus the total withdrawals for that year. This calculation is outlined below. Chart III shows graphically the results.

Year	Voluntary W	ithdrawals only
	Group A cities	Group B cities
End of-	Percent	Percen
First	$100 - \frac{100 \times 4.7}{100} = 95.3$	$100 - \frac{100 \times 4.5}{100} = 95.5$
8econd	95. $3 - \frac{92.8 \times 9.7}{100} = 86.1$	95. $5 - \frac{93.3 \times 15.4}{100} = 81.1$
Third	$86. \ 1 - \frac{80. \ 0 \times 11. \ 4}{100} = 77. \ 0$	$81. \ 1 - \frac{75: 9 \times 15. 6}{100} = 69. \ 3$
Fourth	$77. 0 - \frac{69. 3 \times 8.0}{100} = 71. 5$	$69. \ 3 - \frac{62. \ 6 \times 11. \ 7}{100} = 62. \ 0$
	TotalInvoluntary and	Voluntary Withdrawals
End of—	Percent	Percent
First	$100 - \frac{100 \times 7.2}{100} = 92.8$	$100 - \frac{100 \times 6.7}{100} = 93.3$
8econd	$92.8 - \frac{92.8 \times 18.8}{100} = 80.0$	98. 8 $-\frac{93.8 \times 18.6}{100}=75.9$
. Third	$80. \ 0 - \frac{80. \ 0 \times 13. \ 4}{100} = 69. \ 3$	$75. 9 - \frac{75. 9 \times 17. 5}{100} = 62. 6$
Fourth	$69. \ 3 - \frac{69. \ 3 \times \ 9. \ 3}{100} = 62. \ 9$	$62.6 - \frac{62.6 \times 12.6}{100} = 54.7$

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PUPIL MOBILITY

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HOLDING POWER, BY BOYS AND GIRLS

The percentages of boys and girls remaining in school at the end of each year of high school in each of the two groups of cities are as follows. These percentages were obtained in the same manner as those obtained on the previous page, except that the base populations are different in this case for boys and for girls.

Year	Group /	A cities	Group 1	B cities
	Boys	Otria	Boys	Atris
End of—	Percent	Percent	Percent	Percent
First	91. 9	93.7	92.0	94. 8
Second	78.0	82. 0'	72.1	80. 2
Third	66. 9	.71.6	57.9	68. 0
Fourth	60. 2	65. 4	49.5	60. 7

These percentages show that boys leave school before the end of high school at a substantially higher rate than girls and the trend is proportionately greater in the larger cities—Group B.

VARIATIONS IN RETENTION AMONG INDIVIDUAL CITIES

The variations in retention rates among cities run as high as 89 percent and as low as 45 percent. These variations are not caused by variations in the compulsory school laws because such laws are very nearly the same in all the States concerned. The possible causes of these variations are thought to lie in the (a) enforcement of the compulsory school laws and leniency in providing work permits; (b) appeal of the school programs—both the curriculum and the guidance program; or (c) the type of population; or any combination of these factors.

PUPIL MOBILITY

The mobility of the present-day secondary school population is evidenced by the movement of pupils between school systems, between schools within a school system, and between grades within a given school. Further evidence of this mobility is the number of graduates who, during the 4-year period of the study, attended school



RETENTION IN HIGH SCHOOLS IN LARGE CITIES

in two or more school systems or two or more schools in the same system. The data pertaining to mobility follow:

Group A Cities

Ward addition to be a line of the	Deps	Oiria	Tutel
True membership, 1st year	17, 543	17, 050	34, 593
Graduates, close of 4th year.	10, 761	11, 412	22, 173

 21,939 pupil transfers were reported between school systems or between schools within a school system or they represent movement in or out of the study group due to retardation, acceleration, or reentry after dropout. This number represents 63 percent of the first year membership; it is equal approximately to the number of pupils in the graduating class at the close of the 4-year period of study.

Of the \$1,959:

10

- 2. 3,511 represent pupils who remained in the study group while transferring between schools within the same public school system.
- 3. 5,792 represent pupils who were removed from the study group because of transfer to other school systems, public or private.
- 4. 7,839 represent pupils who were entered in the study group after the initial ninth-grade enrollment through transfer from other school systems, public or private.
- 5. 1,567 ' represent pupils who were entered in the study group after the initial ninth-grade enrollment through retardation or acceleration.
- 6. 1,064 represent pupils who were entered in the study group after previous dropout in the same school.
- 7. 2,166 ' represent pupils who were removed from the study group because of retardation or acceleration.
- 8. 9,413 graduates, representing 42.5 percent of the graduating class, attended school in two or more school systems during the 4-year period.
- 9. 10,703 graduates, representing 48.2 percent of the graduating class, attended two or more schools during the 4-year period.
- 10. With relation to mobility, boys outnumbered girls 6 to 5 in all categories but one. The exception is the movement of pupils in or out of the study group through acceleration. In this group girls outnumbered boys 3 to 2.

"The gain and loss to the study group, due to retardation and acceleration, are not equal. This probably is due to the difference in the size of fail and midyear cleases in a number of the participating etting



PUPIL MOBILITY

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Group B Cilies

and the second descent of the second s	Bbys	Otria	Total	
True membership, 1st year	53, 356	49, 446	102, 802	
Graduates, close of 4th year	23, 993	26, 913	50, 906	

- 1. 59,889 pupil transfers were reported between school systems or between schools within a school system or they represent movement in or out of the study group due to retardation, acceleration or reentry after dropout. This number represents 58 percent of the first year membership; it is equal approximately to the number of pupils in the graduating class at the close of the 4-year period of the study.
- Of the 59,889:

4.

5.

7.

2. 24,075 represent pupils who remained in the study group while transferring between schools within the same public school system.

3. 12,740 represent pupils who were removed from the study group because of transfer to other school systems, public or private. 23,074 représent pupils whose status changed because:

(a) They entered the study group after the initial ninthgrade enrollment through transfer from other schoolsystems, public or private.

(b) They entered the study group after the initial ninthgrade enrollment through retardation or acceleration.

6. (c) They entered the study group after previous dropout in the same school.

(d) They were removed from the study group because of retardation or acceleration.

(NOTE: A numerical breakdown of these four items, similar to that for Group A cities, was not available.) .

8. 6,848 graduates, representing 20 percent of the graduation class in one city,² attended school in two or more school systems during the 4-year period.

9. 13,108 graduates, representing 38 percent of the graduation class in one city," attended two or more schools during the 4-year period.

10. With relation to mobility, boys outnumbered girls 6% to 5 in all categories combined.

This information not available from other Group B cities.

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			QueenD	<	dition (Populations of 200,000 to 1,000,000)	200,000 to 1,6	(000'00	5	Oroup B ottime	otties (Populations	of over 1,000,000)	(000)
	Reson for withdraws	Ser	Orde •	Orade 10	Orade 11	Orade 13	Orden of	Orada	Orade 10	Omde 11	Orade 12	Ordes
3	Left school — Where- abouts not known.	ZH	29	318 262	33	51	528 451	12	321	133	45	42
+	Excused, physical dis- ability.	HZG	318	580 1601	81 85 28	818	979 187	311	369	30.5	616	1. 49
0	Excused, uneducability	HZP	1 2:	ឆឺ	081	9 60	089	1982	38	289 I	596	- ci 8 28 10
•	Drafted, Armed Forces		28000	* g - c	0400	1919 C	818	9 H A	828	80°E	uu 4	40.9
-	Deceased.	HZA		- m r	9 00 00 0 	0-+0	200		°88:	°629	0.44.	- 81-1
60	Institutionalised	HZA	284	**F	0 1 4 0	4.64	87	301-10	1983	2833	• æ g	0.000
•	Othern	HZAH	176 176 351	=833	8328	8963	1825	saf:	431 112 112	86.88		
10-T	TOTAL	ZAH	128	706 674 1, 382	223	1288 E	1. 615 3. 173	1, 060	1. 403	619 967 1. 576	2222	
T-A	Base membership ^e	ZAH	17, 543 17, 060 34, 563	16, 914 16, 766 33, 680	200 200 201 200 201 200 201 200 201 200 201 201 201 201 201 201 201 201 201 201	12, 669					34, 012	

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INVOLUNTARY WITHDRAWALS CLASSIFIED

INVOLUNTARY WITHDRAWALS CLASSIFIED ACCORDING TO GRADE, SEX, AND REASONS FOR WITHDRAWAL

INTERPRETATION OF TABLE I

Of the 62,608 withdrawals reported by the 14 cities in the study, 10,911 or 17.4 percent were classified as Involuntary. These withdrawals, by definition, were considered to be the result of conditions over which a school has little or no control.

Of the 10,911 Involuntary Withdrawals:

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- 2,461, or 22.6 percent of the Involuntary Withdrawals represent families or individuals who moved out of their communities without leaving a forwarding address.
- 8,460, or 31.7 percent were the result of physical disabilities. Two out of every three of these withdrawals were girls, suggesting the need of study and, perhaps, a different approach to a social problem that is the responsibility of other agencies as well as the school.
- 182, or 1.7 percent were considered uneducable, with no significant difference between boys and girls. /

181, or 1.7 percent were drafted into the Armed Forces. These withdrawals reflect considerable retardation.

136, or 1.2 percent died. In this classification, boys outnumbered girls 2 to 1.

1,255 or 11.5 percent were committed to correctional institutions. Boys outnumbered girls slightly more than 2 to 1.

8,226, or 29.5 percent represent miscellaneous cases that did not meet the definition of classifications 3 through 8. Girls outnumbered boys by 558. Close examination of the reports indicates that some cities chose classification 9 rather than classification 4 for certain physical disabilities among girls.



RETENTION IN HIGH SCHOOLS IN LARGE CITIES

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			Oroup		sities (Populations of 200,000 to 1,000,000)	Y1 01 000'00E	(0007000)	010	Group B ettim (Populations of	Populations	of over 1,000,000)	(000
	Keesen for withdrawa	2	Orade 9	Orade 10	Omde 11	Cinde 13	Orada +12	Orade 9	01-00-10	Orade 11	Omde 13	Orde
11	Entered employment	X	620	1, 046	765	264	2.686	2. 421	7.316	4 187	1 270	IS IS
9			808 808	1. 664	-1, 294	152 416	1. 598		3, 948	2.901	988	8, 76,
	Needed at nome	ΞA	50	82	00 e	4 4	8		112	230		4
13	Enlisted in Armed Forces.	ΗX	124	101	99.5	10	310	191	32	185	ā	28
1	Married		0.4	181	- 87	0.8	- 98	343	8-9	26.92	49 481 481	5 6
			162	368	2	328	1, 280	~ æ	218	0 F2	2088	~ Ø
15	Dropped, not employed nor needed at home.	-24	822	128	104 104	182 182	1.134	373	200.1		1.615	
16	Inability to adjust	HXL	33.	517 137 78	1221		525	121	1, 478	2, 163	2, 688	10.4
17	Others		3883 3	884 888	378	288 288 288 288 288 288	223 223 181	238	1, 007 778 178		7.07 7.48 7.48 7.48 7.48	356 1, 759
18	TOTAL	XAH	977 946 1, 623	3, 1855 3, 1855 3, 280	1, 754 1, 594 3, 348	1, 134 931 2, 065	5, 720 4, 596 10, 316	8.4.4 8.4.5 8.4.5 8.4.5 8.4.5 8.4.5 8.4.5 8.4.5 8.4.5 8.4.5 8.4.5 8.4.5 8.4.5 8.4.5 8.4.5 8.4.5 8.4.5 8.4.5 8.4.5 8.4.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8	10, 079 5, 865 15, 934	7, 786 5, 226 13, 012	4, 666	25, 731 15, 650 11, 381
A-T	Base membership.	Xah	17, 543 17, 060 34, 593	16, 914 16, 766 33, 690	14. 595	12, 669 13, 049 25, 718		63, 366 49, 446 02, 802	53, 058 50, 492 103, 550			

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VOLUNTARY WITHDRAWALS CLASSIFIED

VOLUNTARY WITHDRAWALS CLASSIFIED ACCORDING TO GRADE, SEX, AND REASONS FOR WITHDRAWAL

INTERPRETATION OF TABLE II

Of the 62,608 withdrawals, reported by the 14 cities in the study, 51,697, or 82.6 percent, were classified as Voluntary Withdrawals. These withdrawals, by definition, were considered to be ones over which a school generally has considerable control.

Of the 51,697 Voluntary Withdrawals:

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Item 11

28,198, or 54.5 percent, entered verified em pyment. Boys outnumbered girls almost 2 to 1, with 46 percent of all withdrawals in this classification occurring in grade 10.

- 12 1,611, or 3.1 percent, were needed at home. Girls outnumbered boys about 2 to 1.
- 13 1,701, or 8.3 percent, enlisted in the Armed Forces, with increasing frequency from grade 9 through grade 12. Group B cities (over 1,000,000), having an overall membership of about three times that of Group A cities, accounted for only 54 percent of these withdrawals.
- 14 2,157, or 4.1 percent, withdrew because of marriage. Only 77 of these were boys.
- 15 8,728, or 16.9 percent, withdrew because of lack of interest in school. Boys outnumbered girls about 5 to 3.
- 16 3,893, or 7.5 percent, withdrew or were forced to withdraw because of inability to adjust. Boys outnumbered girls more than 2 to 1.
- 17 5,409, or 10.4 percent, withdrew for various reasons that did not meet the definitions of classifications 11 through 16.

SUMMARY

THE FACTS

1. The retention rates for these cities show that such rates have either been increased substantially recently or have usually been underestimated, since the usual holding power of high schools has been considered to be less than 50 percent. This indicates that schools are probably holding more and more students through high school, continuing the longtime trend in this regard in American education. It is assumed that this trend is a good one. In the past, this increasing attendance at school in the higher grades and agencies has come about partly because of the greater number of compulsory school regulations. At present, most students remain in school until they can be released legally. For this reason, further increase in retention rates will largely



RETENTION IN HIGH SCHOOLS IN LARGE CITIES

have to come from improvements in the school program which would better satisfy the requirements and characteristics of our present type of dropouts.

2. The usual method of determining holding power in high school, i. e., comparing graduates with the membership in the entering class, is quite an inaccurate method for a school district or city. The method here described takes into account the varying local conditions which influence the enrollment such as the transfer of students between the public and the private schools and the varying labor market.

3. The other important facts shown in this study are: (a) The retention of girls is higher than that for boys; (b) entering verified employment came high as a reason for leaving school early; (c) there is a tremendous amount of transfer of students among the public schools of the city, and from and to private schools, and to and from other cities, and (d) the largest number of dropouts occurred at around the 10th grade.

ANALYSIS

The problem of retention is a problem only in the fact that pupils do not finish high school. It is not a particular problem that youth do not attend school long enough. Actually, dropouts stay in school. in number of years, almost as long as high school graduates. The problem of retention, therefore, becomes either (a) to see that they are not retarded so much and they thus get the benefit of a high school education before they attain an age when they can leave school, either with or without work permits, or (b) an attraction must be set up to induce them to remain in school past this age of easy leaving. In any case, there is an attraction away from school. his attraction is so strong with some that they leave school before hey can do so legally. However, the data indicate that the majority of the school leaving is done under compulsory schooling and workpermit laws. This pullaway from school may, because of these factors, indicate (a) actual economic need of the student and/or of his family, or (b) the lack of adaptation of the school to the student, resulting in school failure and/or disinterest in school because of no apparent relation of the program to his own needs and characteristics. The great amount of transfer as between schools causes disruption in schooling plans. The school-leaving problem is greatest at around the 10th grade level. It is true that this is in part because of the fact that the compulsory school age comes to an end for many



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in

students in that grade. But it happens that in this grade (the 10th) the choices of the curriculum and the individual subjects within the curriculum become acute. Since it is known from a number of studies that a substantial portion of early school leavers are of better than average intelligence, it means that the intellectual potentiality and therefore also the manpower potentiality of the schools of the country is not being used.

SUGGESTIONS FOR IMPROVEMENT

Many suggestions for the improvement of secondary education are current. Those which seem to have the greatest support from the facts and analysis presented above are:

- 1. For some pupils in high school the problem is financial need in the home. This is difficult to solve since it is a problem which ~ impinges on our whole economic life. Scholarships and reducing the actual expenses in schools would be of some help.
- 2. The curriculum of the high school needs to offer curriculum sequences adapted to the characteristics of the students beginning with the 9th or 10th grade. The present curriculum seems better adapted to girls than to boys.
- 3. There is need for a concentrated guidance attack at the ninthgrade level (1) to give students a view of the educational and occupational world; (2) to help in the analysis of each individual in relation to his potentialities so that, assuming the school offers suitable curriculums, he can be aided in choosing and entering them. Through this process more students will stay in school until graduation and become assets to our country as well as to themselves.

4. The great amount of transfer between schools indicates that, at least in each city, the high schools except for special trade schools—should all offer amilar curricular sequences and subject offerings. This would alleviate the difficulty of adjusting to a new curriculum when transferring. It is possible that / the confusion resulting in trying to make an adjustment to a new school may be one of the major factors in the school-leaving problem.

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APPENDIX

DATA REPORTED BY 14 CITE

		å	shool year an	Behool year ending June 1982	8	-
First Year of Study (Grade 9)	Group A d	etties (Populations be 200,000 and 1,000,000)	atten b	Group B	Group B atties (Pepulations over 1,000,000)	bildes ove
	K	1	Ţ	K	1	T
8	6	*8	(9)	8	۲	ε
A-I. Total cumulative registrations A-T-I. True first-year mombership (Item A-I minus sum of items 1 and 2 below)	18, 900 17, 543	18, 288	37, 278 34, 593	57, 072 53, 366	52, 431 49, 446	109, 503 102, 802
INVOLUNTARY WITEDRAWALS						
1. Transferred to other public schools within the same school district. 2. Transferred to another school district, or to a parochial or private	. 843	303	836	2, 101	1, 397	3, 498
3. Left school, whereabouts unknown	5	278	1, 740	1, 615	1, 588	3, 203
4. Excused from school attendance until close of the school year be- cause of physical disability (properly certified by a medical doctor)	s :	a	8	14	722	5
5. Legally excused or excluded because of uneducability, as determined by an approved psychologist.	\$ 2	13	3 14	311	473	783

SUMMARY

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			4	School year o	ading Jam 1962	2	
	Pirst Year of Blady (Grada 9)	Gran A			Group B	dithe (Populati 1,000,000)	intiana over
-	•	K	1	Teta	Ř	Test	Total
	8	6			8	•	ε
	Drafted into the Armed Services. Deceased	~	0.			•	a
ed .	Enforced withdrawals because of commitments to correctional in-	•	0		12	2	-
đ	Other	106	47	153	204	168	46
10	Total Involuntary Withdrawala	176	175	361	206	212	478
0-T-I.	10-T-I. True Involuntary Withdrawals (Item 10 minus sum of items 1 and	1, 395	1, 670	3, 565	4, 805	4, 142	8, 94
		448	432	. 880	1, 089	1, 167	2, 246
	VOLUNTARY WITEDRAWALS						
	Entered vertfied employment. Naeded at home	8	280	808	2, 421	924	3 345
13. 1	Cultured in Armed Revolues	8	8	124	34	113	147
14.1	Married	\$	•	43	43	8	4
16. 1	Dropped out of school not employed and and a start	+	162	166	8	8	8
16. 1	Izability to adjust in ashoul	188	8	112	373	124	497
17. 0	Othen	30	9	40	171	67	238
18. 1	Total Voluntary Withdrawala	8		61	156	112	267
FI. N	tude	110	3	1, 623	3, 200	1, 422	4, 622
				82, 000	49.067	46. 867	QK 024

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	а. - А.	800	Behool year ending June 1963	ing June 19	8	
Becend Year of Btudy (Grade 10)	(Populations between 20,000 and 1,000,000)		pan and	(Popul	Group B ettes (Populations over 1,000,000) :	- (000'000
	Male Teo	7 maile	Total	X	1	Total
. 8	8			8		e
f study (Item B-I, first year						
from study group because of retardation or	15		33 000	49, 067	46, 867	96, 934
urried over into second year of study (B-I						
ned to same school or same se pupils may have been a	10° 001		31, 208	49, 067	46, 867	95, 934
school during an earlier year. H-II. Pupils entering study group because of retardation (from grade-	232	180	412			
J-II. Pupils having entered study group because of acceleration or up-		113	302			
K-II. Pupils received from other public schools within the school system (normal transfer)			4			
L-II. Pupils received from other public schools within the school system when transfer also Involved retardation (repetition of grade)	120	1 8	1, 070			
-	1		3.624			

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¥	+		4	behool year ending June 1966	ding June 1	3	
	Recent Year of Study (Grade M)	(Pepulatio	(Trepation I and a date	1	(Pepul	(Populations over 1,000,000)	(000'000'
		1	1	Total	ž	1	Total
	8	8	8	(8)	9		ε
A-II. Total K-T-II. True	A-II. Total cumulative registrations (sum of F-II, G-II, H-II, J-II, K-II, L4I, C-II A-T-II. True second-year membership (Item A-II minus sum of items 1	18, 676	18, 227	36, 903	62, 263	57, 825	120, 078
	INVOLUNTART WITEDRAWALS	16, 914	16, 766	33, 680	53, 068	50, 492	103, 550
	1. Transferred to other public sobools within the same school district. 2. Transferred to another school district, or to a parochial or private	756	181	1, 237	6, 891	4, 888	11, 779
	. Laft school, whereabouts unknown. . Eafs school, whereabouts unknown. . Excessed from school attendance until close of the school year	1, 006 318	200	1, 986 580	3, 304	2, 445 306	4, 749
6. Legal	dootoe)	19	160	122	300	111	1, 140
	B. Drafted into the Armed payehologist.	18	00	8	8	8	51
1		-	•	1	8	0	8
	reed withdrawals because of commitments to correctional		-	00	8	13	4
	1	1	38	113	210	101	311
N.		220	25	121		1	

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10-T-II. True Involuntary Withdrawale (item 10 minus sum of items 1 and	3 470	2, 135	4, 605	10, 598	9, 264	19, 862	•
	708	674	1, 382	1, 403	1, 931	3, 334	
VOLUNTART WITEDRAWALS							
 Entered verified employment. Needed at home. Raileted in Armed Services. Married. Married. Dropped out of school; not employed nor needed at home. I. Dropped out of school; not employed nor needed at home. I. Dropped out of school. I. Dropped out of school. I. Solarn. B-II. Net membership, end of second year of study. 	1, 046 23 161 161 161 187 187 141 141 141 141 141 141 141 141 141 14	918 778 178 178 117 117 117 117 117 117	1, 664 101 101 366 376 313 328 3, 256 313 3, 256 30, 016	7, 316 112 159 1, 002 1, 002 1, 007 474 10, 079 41, 576	3, 948 3, 948 230 230 478 204 478 204 4, 706	11 12 12 12 12 12 12 12 12 12 12 12 12 1	

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NEWN IN HIGH SCHOOLS IN LADOR -

		4	*	Johool year cading June 1964	ding June 1	1	
	Third Year of Study Grade 11	Oroup A citi	(Population	Oroup A cities (Populations between 200,010 and 1,000,000)	Group B	Group B etties (Populations over 1,000,000) 1	PLOOM OVER
	+	Ket	1	Total	X	11	Total
		6	8		8	۲	ε
B-II. Net 1 yet	B-II. Net membership, end of second year of study (item B-II, second year of study).	14 361	14 447	90 010			
E-III. Pupil	E-III. Pupils removed from study group because of retardation or ac- celeration	30	283	610 'm	0/0 11	8	94° 792
P-111. Net	P-III. Net membership carried over into third year of study. (B-II minus E-III)					1	
G-III. Total	iplis having retu ter dropout. T	13, 902	14, 384	28, 336	41, 576	42, 706	84, 282
ach B-III. Pupü	school during an earlier year. Puplis entering study group because of retardation (from grade-	316	110	435			
J-III. Puply	Puolla havine entered study amon house of southering	164	73	122			
K-III. Purt	K-III. Pundin received from other mublic achoric michie ab	2	102	166			
L-III. Pundle	tem (normal transfer)	523	101	926			
Ż	when transfer also involved retardation (repetition of grade)	8	48	108			
		828	855	1, 784			
T-III. True	A-T-III. True third-year membership (Item A-III minus sum of items 1	16, 987	15, 985	31, 972	46, 500	44, 363	90, 862
and 2 below)		14 ADK	14 800	100 00			441 44

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25 26 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		1, 967 4,	1,866 3,	133 152 286		201 437 638	a		19 10 29	36	166 315 481	4	619 967 1, 576		4, 187 2, 901 7, 088	361	234 244	816 2,	542 I.	360	
700 700 700 700 700 700 700 700		1, 042	1		ĥ					_		ŝ					 		_		3, 345 95 357
 Transferred to other public schools within the same school district, or to a parochial or private school within the same school district. Transferred to apocher school district, or to a parochial or private school within the same school district. Teff school, whereabouts unknown. Earth school, whereabouts unknown. Leaf school, whereabouts unknown. Leaf school standance unknown. Leaf school standance of uncducability, a deternation by an approved propologist. Denfred into the Armod Barvices. Earth and by an approved pychologist. Denfred into the Armod Barvices. Earth and by an approved pychologist. Denfred into the Armod Barvices. Postered withdrawala because of commitments to correctional institutions. Postered antiboratory Withdrawala (item 10 minus sum of items J acod 2 above). Other. Voluminary Withdrawala (item 10 minus sum of items J acod 2 above). Earted verified employment. Needed at home. Earted verified employment. Needed at home. Dropped out of school: not employed nor needed at home. Inability to adjust in school. Other. Other. Dropped out of school. Net memberably end of third year of study. 		2003		8		3	0	78	3	47	33	i.		-			 			202	F10 12
计表表本 医 电不易 电心理 计选择性地位计终于	1. Transferred to other public schools within the same school dis-		2 Take address and the second under the second seco	Extrated from school attandance until close of the	onlifed	6. Legally excused or excluded because of uneducability as detar-	mined by an approved peychologist	e Arned Bervices			9. Othern	10-T-III. True Involuntary Withdrawale (item 10 minus sum of items 1	(evode 2 bus	VOLUNTART WITHDRAWALS		Period at nothe		Inshitter to direct is actual; not employed nor n		18. Total Voluntary Withdrawala	B-III. Net membership end of third year of study

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			School year ending Juma 1944	ting June H	1	
Fourth Year of Bludy, Grade 12	Oroup A disa		Latte (Papaktes bit wen	Group B	Oroup B ditim (Populati 1,000,000) *	
	1	1	Tet	ŧ	1	Total
9	6	6	9	s		ε
B-III. Net membership end of third year of study (Item B-III, third year of study)		\				
3	10 41	12, 868	192 191	34, 200	34, 348	68, 614
F-IV. Net membership carried over into fourth year of study (B-III minus E-IV).			5		1	
G-IV. Total number of pupils having returned to same school or same school system after dropout. These pupils may have been a part of the original study group or may have dropped-out	55	11	8	34, 266	34, 348	68, 614
Posume of r	163	3	217			
J-IV. Puplis having entered study group because of acceleration or un-	150	8	226			
K-IV. Puptin received from other public schools within the school system	139	8	346			
	111	111	ž			
when transfer also involved retardation (repetition of grade)	+		1			
public, parochial, or private any time during school year	320	362	280			

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. True fourth	A-T-IV. True fourth-year membership (item A-IV minus minus of items 1	13, 017	13, 418	26, 435	36, 684	35, 844	72, 528
and 2 bea	and 2 below)	12, 669	13, 049	26, 718	34, 012	32, 590	66, 602
	INVOLUNTART WITHDRAWALS						
. Transferred	1. Transferred to other public schools within the same school dis-						
2. Transferred	Transferred to another school district. or to a narochial or netwate	178	118	396	1, 988	2, 546	4, 534
school wi		170	261	421	684	708	1 302
. Left sebool,	Left school, whereabouts unknown.	51	\$	8	4	29	100
course of	eause of physical disability (properly certified by a medical						
5. Lecally erer	dootor) and or archided hearen of market hits	17	69	76	16	178	269
mined by	mined by an approved paychologist.	8	64	-0	0		
Drafted int	Drafted into the Armed Bervices	2	•	2 .	\$	0	. 4
Enforced withdrawals	Enforced withdrawals because of commitments to correctional	*	0	+	14	*	18
	institutions	13	1	8	32	0	14
56		42	72	114	8	72	1001
IV. True Involu	10-T-IV. True Involuntary Withdrawals (Item 10 minus sum of items 1	486	99	1, 039	2, 922	3, 586	6, 508
and 2 above)	(e.	137	186	322	260	332	583
	VOLUNTART WITHDRAWALS						
11. Entered veri	Entered verified employment.	364	152	416	1, 229	686	2, 218
	P-M-4 I. A DOIDE	*	15	19	8	137	21
	Manual II Armed Services	328	0	328	440	6	451
		9	328	344	12	268	280
ino neddour	Drupped out of school; not employed nor needed at home	300	193	393	1, 615	1, 073	2, 688

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RETENTION IN HIGH SCHOOLS IN LARGE CITIES

			8	Bebool year ending June 1946	ding June H		
	Fourth Year of Study, Grade 13	Oroup A cities (Populations between 200,000 and 1,000,000)	(Population) of the contract o	an bine	Oroup B	Oroup B dtime (Populations over 1,000,000) 1	tions over
		ž	1	Total	Xt	7	Total
	Ð	6	6		9	6	E
*	VOLUNTART WITEDRAWALA-Continued						
16. 1	16. Inability to adjust in school	3	2	81	529	178	202
	17. Other	368	216	181	748	2009	1, 248
M-IV.	M-IV. Membership prior to June 1966 graduation (Item A-T-IV minus	1, 134	168	2,065	4, 666	3, 147	7, 813
AI-N		11, 398	11, 933	23, 331	29,096	28, 111	58, 207
B-IV.	r June 1966 graduation (M-IV minus N-	10, /01	11. 412	21.12		26, 913	20, 90
		637	521	1. 158	5 103	2 108	102 2

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There is

qAta Female Total Male Female Total Male Female Total 0IV. Graduates in original study group in Beptember 1961 who remained in asme city school system during 4 complete years 0, 317 0, 443 12, 760 12, 345 16, 664 28, 000 P-IV. Graduates in original study group in Beptember 1961 who remained in asme city school system during 4 complete years 6, 317 6, 443 12, 760 12, 345 16, 664 28, 000 P-IV. Graduates in original study group in Beptember 1961 who remained in asme school during 4 complete years 6, 317 6, 443 12, 760 12, 345 16, 664 28, 000 P-IV. Graduates who met requirements for graduation (grades 9-12) in 347 5, 200 5, 503 10, 703 9, 004 12, 750 21, 754 R-IV. Graduaties who were required to attend action (grades 9-12) in meeting requirements for graduation (grades 9-12) (aummer action) 357 358 347 537 884 R-IV. Graduaties who were required to attend action (grades 9-12) (aummer action) 358 158 516 538 538	34				(performent)	
(B) (B) <th></th> <th> .</th> <th>Total</th> <th>Ke</th> <th>Pende</th> <th>Total</th>		 .	Total	Ke	Pende	Total
6. 317 6. 443 12. 760 12. 345 15. 664 5. 200 5. 503 10. 703 9. 004 12. 750 227 357 584 347 537 358 158 516 568 236			9	9	•	E
0, 317 0, 443 12, 700 12, 345 15, 064 5, 200 5, 503 10, 703 9, 004 12, 750 227 357 584 347 537 358 156 546 347 537 358 158 516 598 347 537	ŧ					
5, 200 5, 503 10, 703 9, 004 12, 750 21, 227 357 584 347 537 23 358 158 516 548 347 537 358 158 516 568 236	Beptember 1951 who re-		12, 760	12, 345	15, 664	28,000
227 357 584 347 537 368 158 516 568 236			10, 703	9.004	12, 750	21, 764
368 158 516 598 236			584	347	537	884
358 158 516 598 236	in meeting requirements for graduation (grades 9-12) (summer					
			\$16	869	236	834

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