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ABSTRACT

Individual state projections of the number of public high school graduates from 1979 through 1995 are presented for each of thirteen western states--Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming. For each state, a four-page section presents detailed historical data, including annual birth patterns, population migration statistics, and rates of student persistence in high school--major factors underlying the projections. Detailed enrollment projections are presented, along with analytical tables, and a comprehensive cohort graph. A brief written explanation accompanies each state section. A description of the report methodology is presented separately. The projections for each state (except Wyoming) show a common pattern including the following elements: (1) a peak in enrollments between 1975 and 1982, (2) a significant decrease from that peak to a low point in the 1984-86 period, (3) an increase until 1988 or 1989, (4) a decrease to another low point in 1990 or 1991, and (5) an increase to 1995, the last year of the projection. This basic pattern is the same as that for the country as a whole. However, in the West, projected graduates remain below the 1979 peak throughout the projection period but not nearly so far below as for the United States as a whole. (DR)

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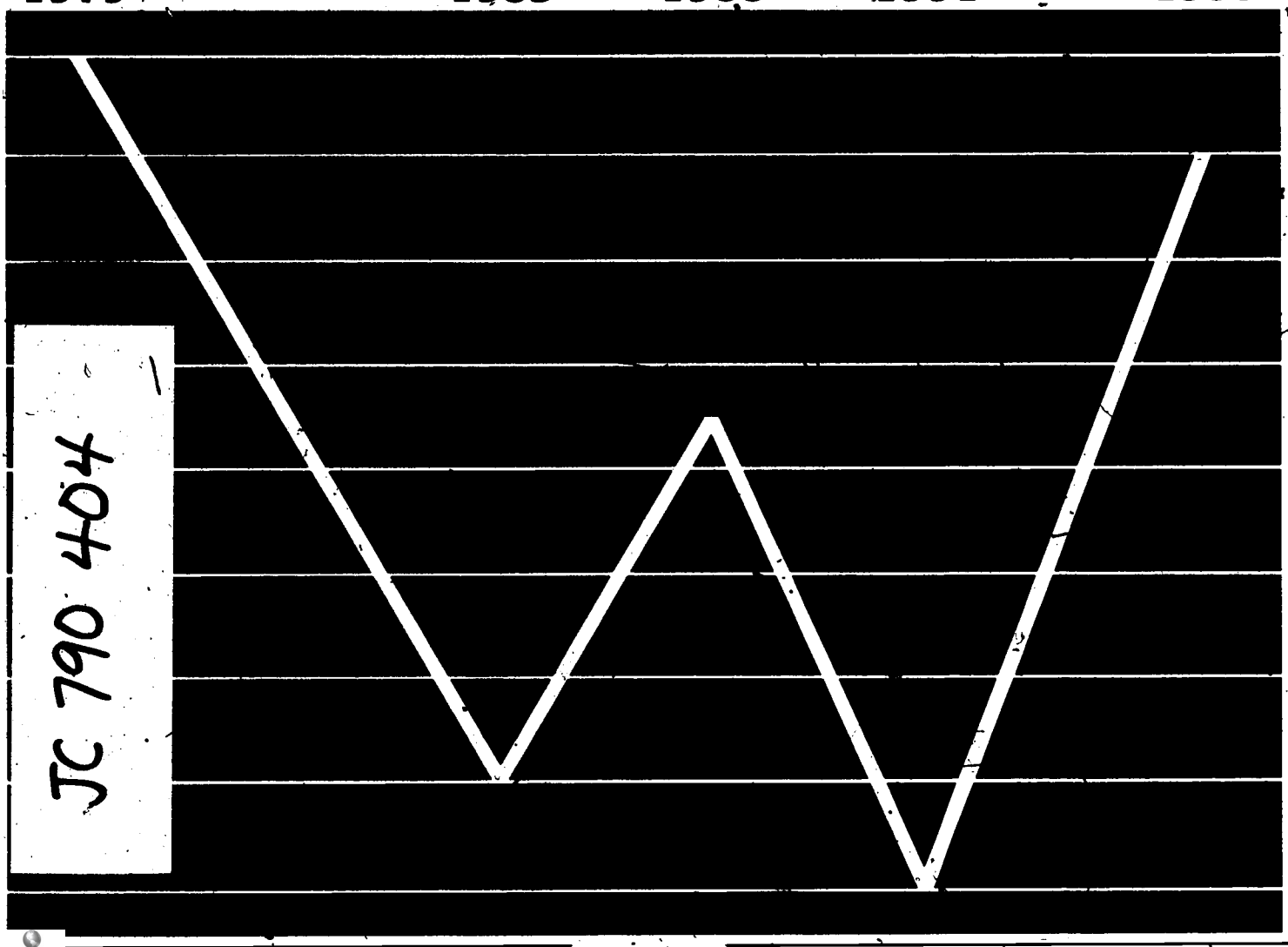
Projections Of High School Graduates In the West

WIAHE
Improving Education In The West

1979 1985 1988 1991 1995



JC 790 404

WICHE, the Western Interstate Commission for Higher Education, is a nonprofit regional organization. It helps the 13 member states cooperatively provide high-quality, cost-effective programs to meet the education and manpower needs of the West. Member states are Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

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Foreword

Projected and actual decreases in student enrollment are an increasingly significant factor in determining both the present and the future course of higher education in the nation. The thirteen western states certainly have not been immune to shifting enrollment patterns. The impact of decreasing numbers of students already being felt in the West gives rise to the need for a more systematic examination of enrollments, beginning with the elementary and secondary school levels.

As part of its objective of assisting educational administrators and other decision makers in appraising and responding to the changing education needs of the West, the Western Interstate Commission for Higher Education (WICHE) is undertaking such a systematic analysis of state-by-state projections of enrollments in the region. This report, examining projections of public high school graduates in each state in the West, is a first step. We hope that it will prove useful to everyone concerned with the future direction of higher education.

This report, developed and written by William R. McConnell, director of WICHE's Student Exchange Program, marks the launching of WICHE's recently-formed Information Clearinghouse. WICHE has provided a forum for interstate sharing of information for over twenty-five years; now, this work has been formalized in a clearinghouse to meet the needs of state and institutional policy makers for more and better information.

WICHE is indebted to individuals in each western state for their assistance in supplying data, answering questions, and commenting on the compilations and projections in this first clearinghouse publication. These contributors are identified at the end of this report.

Boulder, Colorado
June 1979

Phillip Sirotkin
Executive Director
Western Interstate Commission for Higher Education

Introduction

It is well known among those involved in higher education that the traditional college-age population (18-21) in the United States will decrease greatly in the next fifteen years. The number of eighteen-year-olds is estimated to peak in 1979 and is projected to decrease 18 percent by 1986. After a brief upturn, the number is projected to decline further, so that in 1991 it will be some 26 percent below the 1979 peak. Because of these projections, "declining enrollment" is one of the terms most frequently heard in discussions about the future of higher education.

Individual states will not necessarily follow the national pattern. Annual births in a given state may not follow the national pattern, and interstate migration will affect the future numbers of eighteen-year-olds. Some states have made careful projections taking these factors into account; others have not. In some western states, there has been a tendency to assume that the in-migration which nearly every state is experiencing will offset the effects of the national pattern and minimize or eliminate any impact of the national decline in college-age population.

There are no reliable, up-to-date projections of the traditional college-age group state-by-state for all the states. However, it is possible to project the annual flow of high school graduates by using current grade-by-grade enrollments in the elementary and secondary schools. Such a projection is closely related to college-age populations. Many states have such projections, but many do not. Such projections can be monitored annually using each new year's report on elementary and secondary enrollments. Once the basic historical data are compiled, the analyst can select projection factors to reflect the assumptions he or she wishes to use and can quickly calculate the projection. Such projections are a valuable tool in studying future enrollment expectations.

Future enrollments in higher education will not depend solely on the size of the traditional college-age population or the flow of high school

graduates. The rate of participation in higher education by these groups will, of course, influence enrollments. Participation by older-age groups will also be an important factor. Its impact already is being felt. However, a realistic assessment of the potential impact of these factors leads to the conclusion that the change in the size of the traditional college-age group must be acknowledged as a crucial matter for all of higher education and for most individual institutions.

This report presents projections of the annual number of graduates from the public high schools in each of the thirteen western states served by WICHE--Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming. The methodology is the widely-used grade-progression technique. For each state, a four-page section presents detailed historical data, detailed projections, additional analytical tables and a graph, and a brief written explanation. Information drawn from the individual state sections is presented from a regional perspective in the main body of the report, along with a discussion of the major underlying factors. A description of the methodology is given in a separate section.

The author made the projections. Where individual states have made comparable projections, the state sections of the report indicate how these compare with the projections presented here. The historical data and projections are limited to public schools, except in Alaska, because of a lack of reliable data on nonpublic schools in most states. The state sections indicate the general magnitude of the numbers of nonpublic graduates.

Projections of High School Graduates

Individual state projections of public high school graduates from 1979 through 1995 were made for each of the thirteen western states. The detailed data for each state, together with a discussion of the methodology, are presented in the next section of this report.

The projections for each state (except Wyoming) show a common pattern:

- a peak between 1975 and 1982
- a significant decrease from that peak to a low point in the 1984-86 period
- an increase to 1988 or 1989
- a decrease to another low point in 1990 or 1991
- an increase to 1995, the last year of the projection.

This basic pattern is the same as that for the country as a whole. In Wyoming, there is a decrease from a peak in 1982 to a low point in 1984, but then a steady increase to 1995.

Figure 1 shows this pattern for each state in terms of the percentage change from the 1975-82 peak at each of the points described. Table 1 shows these percentages together with the projected numbers of graduates at each of the key points. Comparable figures for the region and for the United States are given.

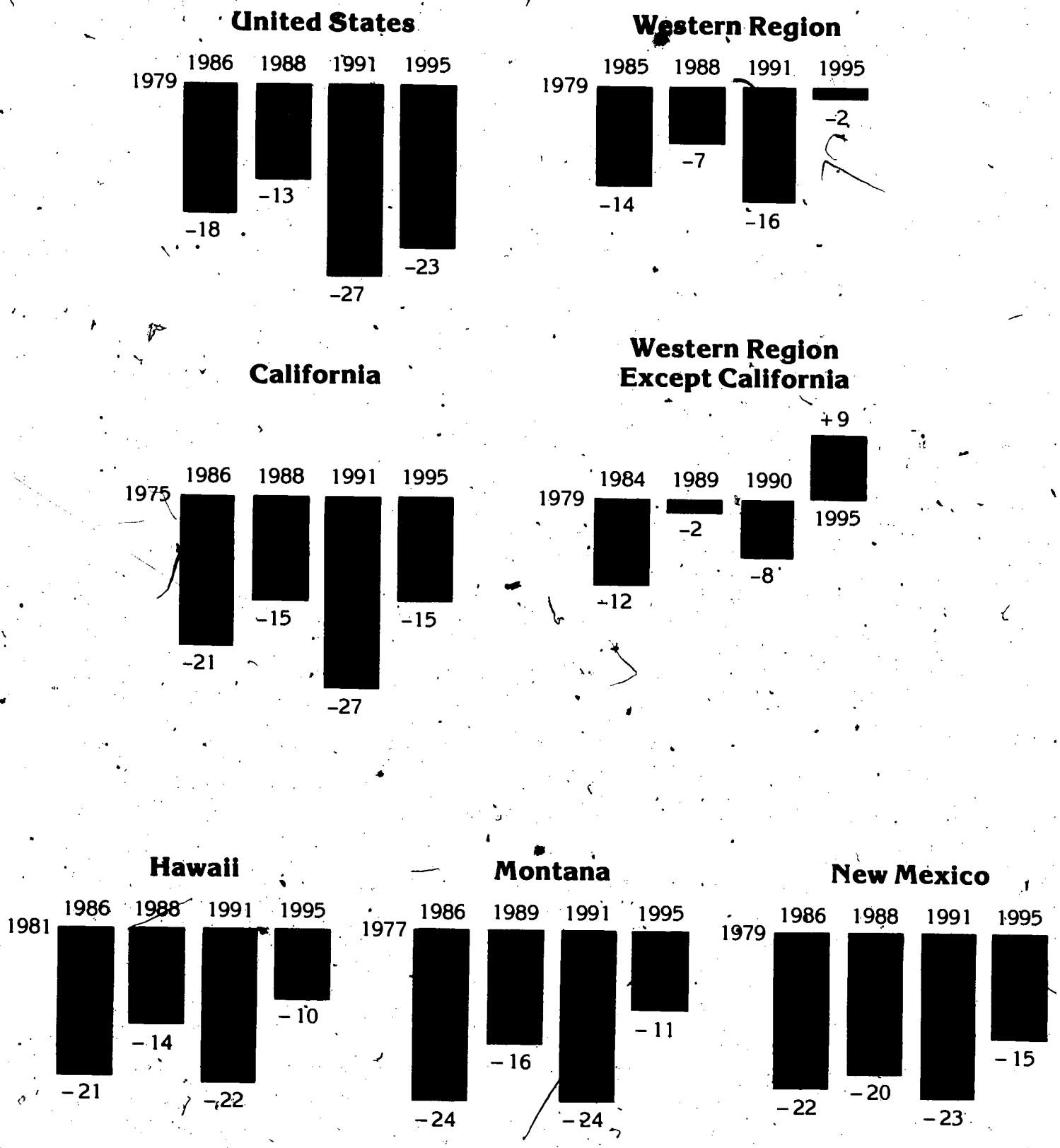
Every western state, including the most rapidly growing states in the country, shows a projected decrease in the number of graduates, ranging from 7 percent in Arizona to 24 percent in Montana, during the initial downturn. Eight states are projected to remain below the 1975-82 peak into the early 1990s, and four of these show the projected number of graduates remaining 10-15 percent below the 1975-82 peak, even in 1995.

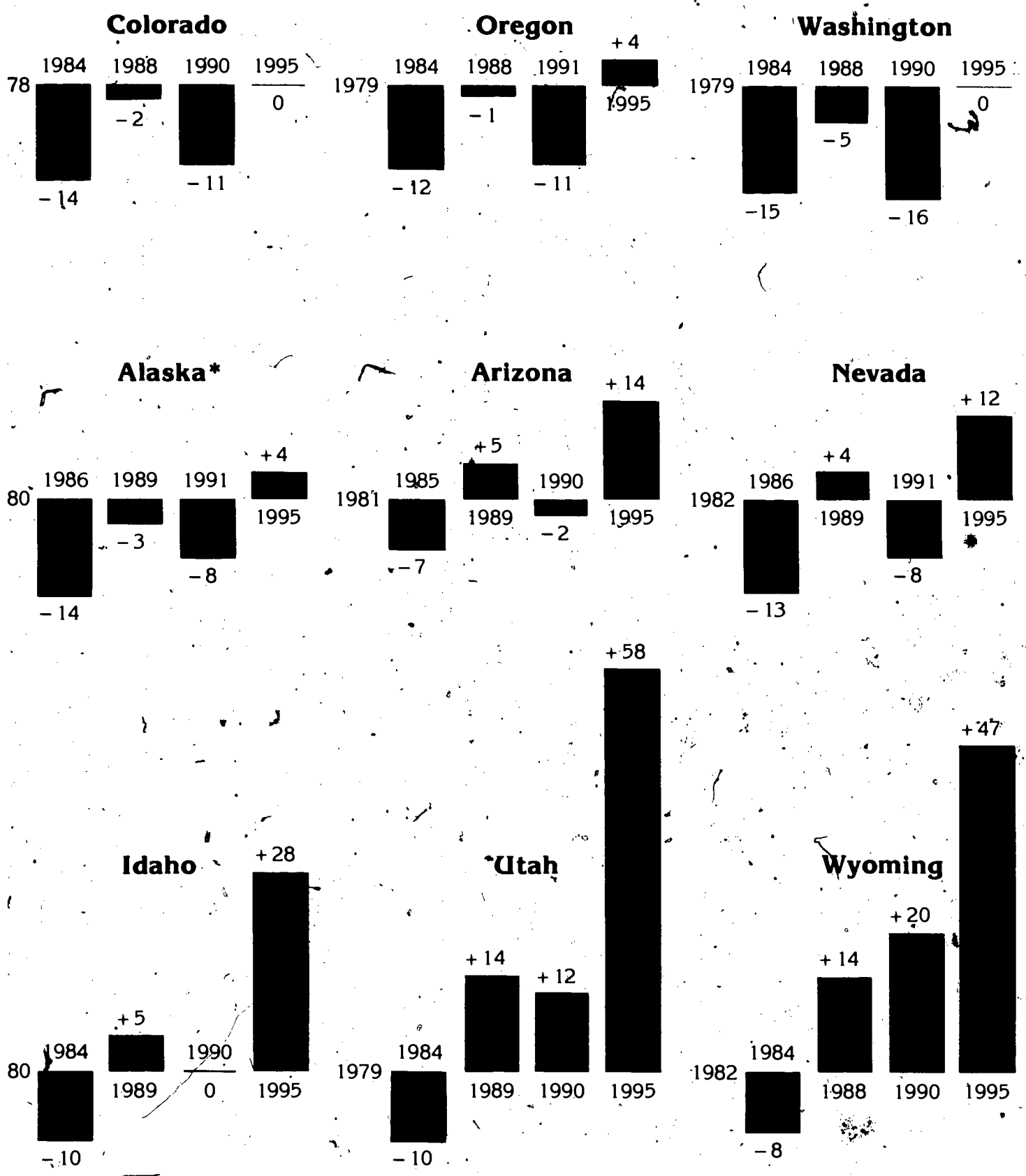
For the region as a whole, the projected graduates remain below the 1979 peak throughout the projection period but not nearly so far below as in the case of the United States. The gap between this region's percentages and those for the United States steadily increases over time, reflecting the

Figure 1

Pattern of Projected Public High School Graduates 1979-1995, Western States

Percentage Changes from Peak Reached about 1979





*Includes nonpublic schools.

TABLE 1

PATTERN OF DECREASES AND INCREASES IN PROJECTED PUBLIC HIGH SCHOOL GRADUATES 1975-1995

	Peak 1975-1982		Valley 1984-1986		Peak 1988-1989		Valley 1990-1991		1995	Percent Change From Peak 1975-1982			
	Year	Number	Year	Number	Year	Number	Year	Number	Number	Valley 1984-1986	Peak 1988-1989	Valley 1989-1991	1995
Alaska*	1980	5,625	1986	4,810	1989	5,441	1991	5,163	5,832	-14%	-3%	- 8%	+ 4%
Arizona	1981	29,482	1985	27,315	1989	30,982	1990	28,984	33,733	- 7	+ 5	- 2	+14
Colorado	1978	37,373	1984	32,207	1988	36,581	1990	33,388	37,384	-14	- 2	-11	0
Hawaii	1981	11,674	1986	9,168	1988	10,010	1991	9,112	10,526	-21	-14	-22	-10
Idaho	1980	13,422	1984	12,015	1989	14,151	1990	13,473	17,202	-10	+ 5	0	+28
Montana	1977	12,328	1986	9,408	1989	10,408	1991	9,409	10,986	-24	-16	-24	-11
Nevada	1982	9,118	1986	7,954	1989	9,494	1991	8,401	10,220	-13	+ 4	- 8	+12
New Mexico	1979	18,942	1986	14,820	1988	15,117	1991	14,544	16,111	-22	-20	-23	-15
Oregon	1979	30,851**	1984	27,149	1988	30,647	1991	27,462	32,147	-12	- 1	-11	+ 4
Utah	1979	20,667	1984	18,549	1989	23,644	1990	23,183	32,702	-10	+14	+12	+58
Washington	1979	51,568&	1984	43,984	1988	49,009	1990	43,551	51,507	-15	- 5	-16	0
Wyoming	1982	6,163	1984	5,658	1988	7,015@	1990	7,390@	9,063	- 8	+14	+20	+47
ALL WEST But California	1979	245,761	1984	215,515	1989	240,309	1990	225,566	267,413	-12	- 2	- 8	+ 9
California	1975	273,411	1986	217,103	1988	232,844	1991	198,432	231,571	-21	-15	-27	-15
Total WEST	1979	506,639#	1985	434,047	1988	472,957	1991	424,255	498,984	-14	- 7	-16	- 2
United States (000's)	1979	2,875	1986	2,369	1988	2,493	1991	2,094	2,222	-18%	-13%	-27%	-23%

* Includes nonpublic schools.

** Oregon had an earlier, higher peak of 32,757 in 1971.

& Washington had an earlier, higher peak of 51,868 in 1974.

@ No peak and no valley; steady increase.

\# Total West had an earlier, higher peak of 507,356 in 1975.

difference between the pattern of annual births of the region and of the country as a whole. This is particularly notable in the last four years of the projection period.

The implications of these projections of high school graduates for the planning of higher education in the several states are self-evident. The projections for California or New Mexico have one set of implications, those for Colorado or Oregon have another, and those for Utah or Wyoming still another. In the absence of long-range projections, carefully monitored, developments in the next five to seven years could be very misleading.

These state-by-state projections may also be used in assessing future prospects regarding the migration of students for college attendance. If a state or institution receives large numbers of students as migrants from a particular state or group of states, the projected flow of high school graduates in those states and its impact on the pattern of migration for college attendance will be important planning considerations.

Major Underlying Factors

The major factors underlying the pattern of projected high school graduates are the historical pattern of annual births, migration in the past and projected for the future, and the rates of persistence of students in the later years of high school.

Births.

Annual numbers of births establish a basic underlying pattern as to the sizes of the successive age groups in the population. This pattern will be modified by other factors, especially migration. However, only very heavy migration in a particular pattern over time is likely to alter the basic pattern of increases and decreases established by the pattern of births.

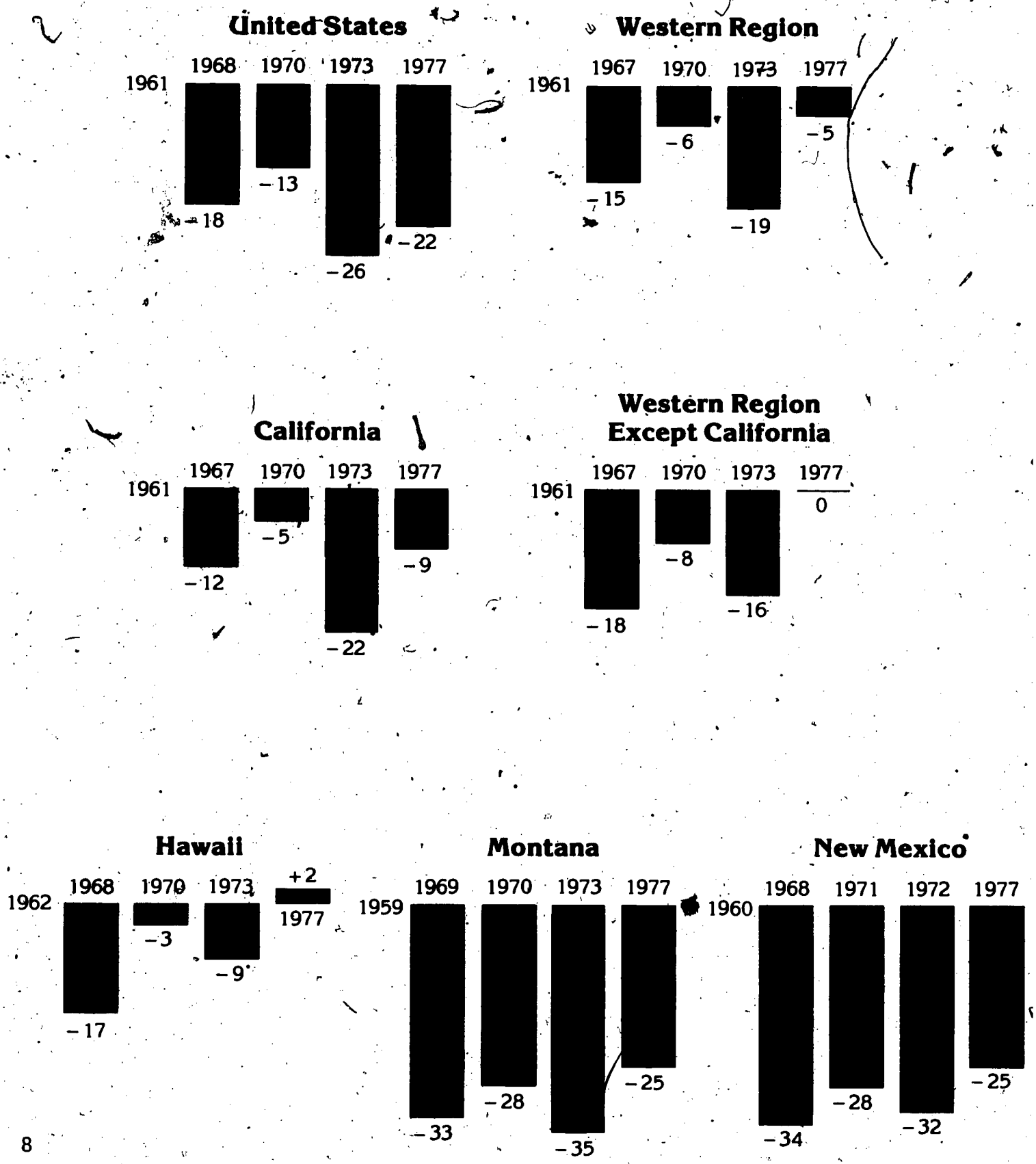
Figure 2 shows the basic pattern of resident live births for each state in a format comparable to the high school graduate picture in figure 1. Table 2 shows the percentages as well as the numbers of births in the key years. States are shown in the same sequence to facilitate comparisons between figure 2 and figure 1.

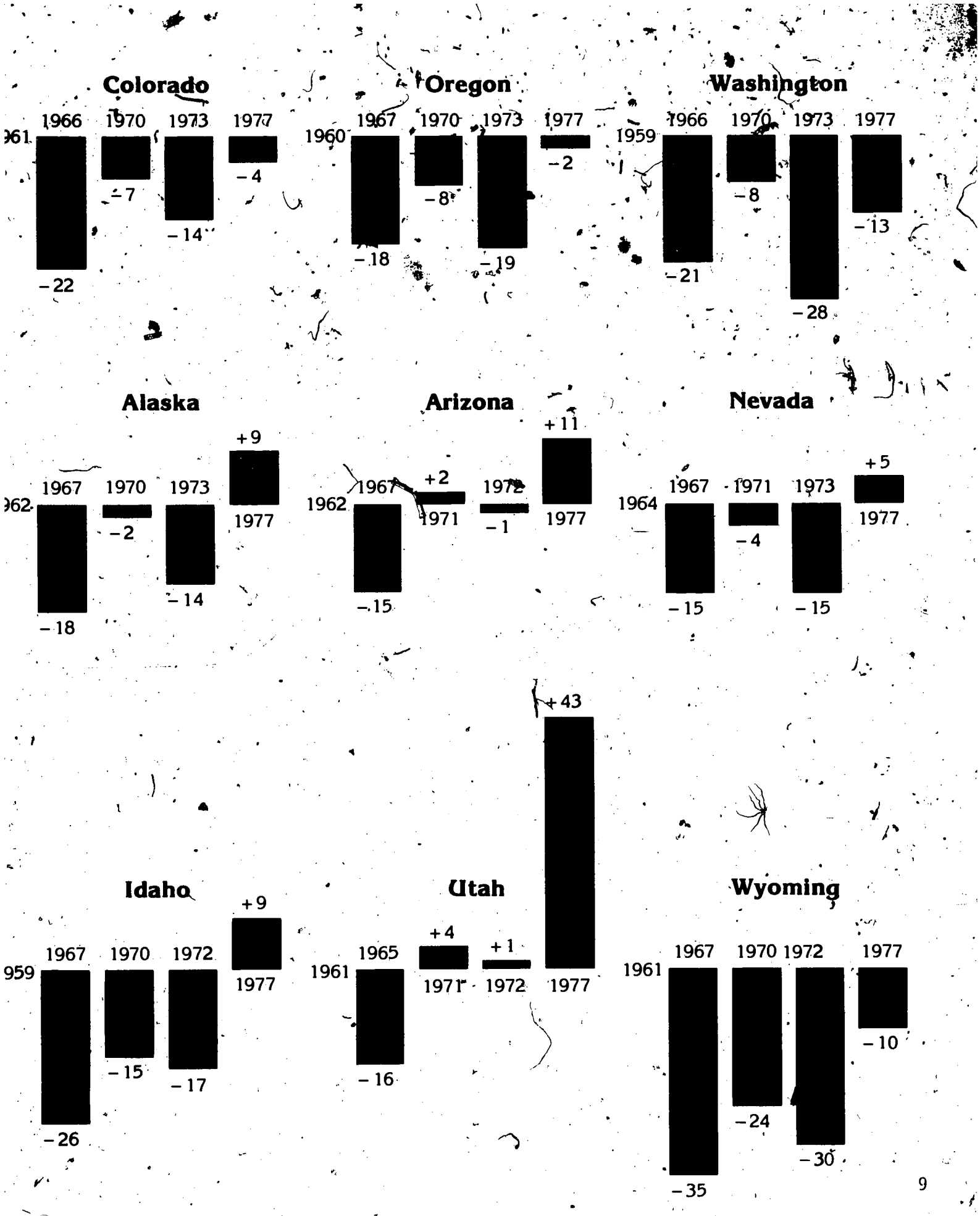
The basic pattern of ups and downs in the annual birth figures persists in the high school graduate figures in every state except Wyoming, where

Figure 2

Pattern of Annual Resident Live Births 1959-1977, Western States*

Percentage Changes from Peak Reached about 1960





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*Source: State-level data reported to WICHE by each state.

TABLE 2

PATTERN OF DECREASES AND INCREASES IN ANNUAL RESIDENT LIVE BIRTHS 1959-1977

	Peak 1959-1964		Valley 1965-1969		Peak 1970-1971		Valley 1972-1973		1977	Percent Change From Peak 1959-1964			
	Year	Number	Year	Number	Year	Number	Year	Number	Number	Valley 1965-1969	Peak 1970-1971	Valley 1972-1973	1977
Alaska	1962	7,676	1967	6,317	1970	7,558	1973	6,611	8,378	-18%	- 2%	-14%	+ 9%
Arizona	1962	37,785	1967	32,279	1971	38,521	1972	37,501	41,827	-15	+ 2	- 1	+11
Colorado	1961	44,648	1966	34,899	1970	41,480	1973	38,507	43,056	-22	- 7	-14	- 4
Hawaii*	1962	12,835	1968	10,705	1970	12,462	1973	11,621	13,152	-17	- 3	- 9	+ 2
Idaho	1959	17,188	1967	12,762	1970	14,540	1972	14,250	18,813	-26	-15	-17	+ 9
Montana	1959	17,646	1969	11,762	1970	12,622	1973	11,392	13,304	-33	-28	-35	-25
Nevada	1964	10,038	1967	8,557	1971	9,608	1973	8,535	10,516	-15	- 4	-15	+ 5
New Mexico	1960	30,747	1968	20,346	1971	22,205	1972	20,813	23,100	-34	-28	-32	-25
Oregon	1960	38,347	1967	31,446	1970	35,353	1973	30,902	37,467	-18	- 8	-19	- 2
Utah	1961	26,590	1965	22,261	1971	27,552	1972	26,911	37,956	-16	+ 4	+ 1	+43
Washington	1959	65,729	1966	51,777	1970	60,499	1973	47,636	57,256	-21	- 8	-28	-13
Wyoming	1961	8,560	1967	5,540	1970	6,535	1972	6,011	7,728	-35	-24	-30	-10
ALL West But California	1961	311,297	1967	254,352	1970	287,025	1973	262,625	311,553	-18	- 8	-16	0
California	1961	381,198	1967	336,304	1970	362,652	1973	297,838	347,579	-12	- 5	-22	- 9
Total West	1961	692,495	1967	590,656	1970	649,677	1973	560,463	659,132	-15	- 6	-19	- 5
United States (000's)	1961	4,268	1968	3,502	1970	3,731	1973	3,137	3,327	-18%	-13%	-26%	-22%

* Excludes military dependents.

migration is an especially significant factor in the projections. For California and Hawaii, the percentage decreases in high school graduates are greater than the related decreases in the annual births. In the other states, almost without exception the decreases are smaller and the increases are larger in the high school graduate figures than in the birth figures. Generally, this is the result of migration, although decreased retention in the later high school grades is also involved, especially in California.

The annual numbers of births are themselves influenced by migration. The migrating population is heavily weighted with young persons of child-bearing age. A period of two or three years of heavy in-migration will generally be reflected in an upturn in the annual number of births. An examination of the cohort graphs in the individual state sections of this report will reveal that every western state shows a significant upturn in births compared to the national birth pattern, especially in the last four years. Note the drastic departure of Utah from the pattern of other states.

Migration

Of the twelve states shown by the U.S. Bureau of the Census to have the greatest percentage increases in population from 1970 to 1977, ten are in the West. Since the migrating population is heavily weighted with young families, migration has its greatest impact, in the data used in this report, at the preschool and elementary-school levels. It is relatively insignificant at the secondary-school level.

One useful, though rough, measure of the pace of migration from year to year is the change in total enrollment of grades 2-5 one year as these groups move to grades 3-6 the next year. Each state section has a table showing this change in numerical terms. Table 3 shows these changes in percentage terms for each of the western states and the region. For a stable population, one would expect these figures to be negative, probably between -0.5 percent and -1.0 percent, due mainly to nonpromotion (see methodology). Against that background, the figures for the WICHE region in table 3 could be viewed as showing an average annual in-migration of roughly 1 percent at the grade levels involved except for the most recent two years. Wyoming shows a very heavy rate of in-migration for the last six years, while the Hawaii figures suggest a steady out-migration since

TABLE 3

PERCENTAGE CHANGE BETWEEN ENROLLMENT IN PUBLIC SCHOOL GRADES 2-5 THE PREVIOUS YEAR AND ENROLLMENT IN GRADES 3-6 IN THE CURRENT YEAR - A ROUGH INDICATION OF THE EXTENT OF MIGRATION

	Western Region	Alaska*	Arizona	California	Colorado	Hawaii	Idaho	Montana	Nevada	New Mexico	Oregon	Utah	Washington	Wyoming
1966	-0.2%**	--	-0.2%	-0.1%	-0.6%	-0.2%	-1.5%	-2.1%	-2.6%	-3.0%	+0.6%	+0.6%	+2.6%	-9.4%
1967	-0.1	-1.1%	-0.6	-0.2	+0.1	-0.8	-0.5	-0.5	-0.5	-3.4	+0.2	-0.7	+2.5	-2.5
1968	+0.2	-1.6	+1.6	-0.1	+0.7	+0.4	+0.1	-1.9	+2.2	-1.2	+0.4	-0.1	+1.8	-1.2
1969	+0.2	+2.2	+3.5	-0.8	+1.6	+3.8	-0.2	+0.3	+1.7	-0.7	+1.3	+0.2	+1.4	+0.4
1970	+0.2	+1.0	+1.6	-0.2	+1.9	-0.2	+1.9	+0.1	+1.5	+0.2	+0.9	+0.7	-0.5	+0.4
1971	±0.0	+0.6	+2.8	-1.0	+3.2	+0.7	+2.4	+0.1	+1.5	+0.3	+0.9	+0.7	-0.8	-0.5
1972	-0.2	-1.1	+3.9	-0.6	+2.5	-1.5	+1.1	+0.2	-0.7	+0.6	+0.5	+1.4	-0.9	±0.0
1973	+0.2	-1.8	+0.5	-0.5	+0.6	-1.9	+3.0	+0.2	+1.2	+0.3	+2.7	+0.7	+1.1	+1.4
1974	+0.3	+4.6	+0.3	-0.1	+0.3	-1.4	+0.6	+0.2	+0.4	+0.3	+0.4	+0.6	+0.6	+3.1
1975	+0.2	+2.3	+0.4	±0.0	-0.1	-2.2	+0.8	-0.6	+0.5	+1.0&	+0.5	+0.7	+1.0	+2.7
1976	+0.1	-1.3	+0.1	-0.1	+0.1	-2.5	+1.8	+0.2	+0.1	-0.2	+0.2	+0.9	+0.7	+3.1
1977	+0.6	+3.0	+2.7	-0.6	+0.6	-2.5	+1.2	+1.0	+1.8	-0.2	+1.3	+0.9	+1.4	+2.5
1978	+0.6%	-1.0%	+0.9%	-1.1%	+1.5%	-1.6%	+1.2%	-0.8%	+2.1%	+0.5%	+1.9%	+1.3%	+1.7%	+4.2%

* Alaska data include nonpublic schools.

** Excluding Alaska.

& Includes some increase due to change in enrollment statistic used.

1971. The latter probably relates to turnover of military personnel and their families.

The impact of migration will also be revealed by close study of the cohort graphs in the state sections, especially by comparison of the lines for births, first-grade enrollments, and seventh-grade enrollments. The left-hand portions of the graphs for Montana and New Mexico clearly indicate out-migration, while the Wyoming graph indicates heavy out-migration followed by heavy in-migration. The patterns of annual births in these states, as well as other information about them, confirm these interpretations.

In projecting high school graduates for a state with a relatively small population base, the pace of migration built into the projection ratios can be an especially volatile factor. In the case of Wyoming, rapid in-migration is assumed to continue, though not as rapid as in the most recent year or two. This is based on the assumption of continuing rapid development of the state's energy resources. If this assumption proves incorrect, then the projections probably will be wide of the mark. For Alaska, the projections assume a period of continued adjustment to the post-pipeline-construction situation and little net migration. If some new development, such as a gas-pipeline boom, were to occur within the next six or eight years, the projections could be significantly low.

Rates of Persistence in the Later High School Years

Table 4 compares the average progression ratios for the years 1965-66 to 1970-71 to those for the years 1973-74 to 1978-79, from tenth grade to high school graduates. With very few exceptions, every comparison shows a decrease in the average ratio between the earlier period and the most recent period. When the average ratios are compounded, every state shows a decrease ranging from about 1.5 percent of the original tenth-grade group to about 10 percent of that group. The average of the compounded ratios for twelve states shows a decline of about 5 percent. The compounded figure for the most recent period ranges from .733 in Alaska and .736 in Nevada (Arizona excluded) to .832 in Montana and .829 in Hawaii, with an average for the twelve states of .780.

As noted in figure 1 and table 1, California had its peak number of high school graduates in 1975. If it had not been for the decline in late high school persistence ratios, the peak would be occuring in 1979 involving

TABLE 4

COMPARISON OF AVERAGE PROGRESSION RATIOS FROM PUBLIC SCHOOL TENTH GRADE TO HIGH SCHOOL GRADUATES FOR TWO PERIODS - 1965-1966 TO 1970-1971 AND 1973-1974 TO 1978-1979

Average Progression Ratios

	Grade 10 to Grade 11		Grade 11 to Grade 12		Grade 12 to H. S. Graduates		Compounded	
	1965-66 to 1970-71	1973-74 to 1978-79	1965-66 to 1970-71	1973-74 to 1978-79	1965-66 to 1970-71	1973-74 to 1977-78	1965-66 to 1970-71	1973-74 to 1978-79
Alaska*	.955	.900	.936	.895	.938	.910	.838	.733
Arizona	.946	.925	.936	.908	.818**	.777**	.724**	.653**
California	.948	.924	.914	.865	.937	.930	.812	.743
Colorado	.956	.941	.940	.909	.917	.909	.824	.778
Hawaii	.955	.925	.951	.923	.965	.971	.876	.829
Idaho	.958	.942	.945	.910	.945	.922	.856	.798
Montana	.959	.942	.946	.929	.951	.951	.863	.832
Nevada	.938	.959	.918	.897	.875	.856	.753	.736
New Mexico	.928	.907	.910	.900	.912	.926	.770	.756
Oregon	.972	.927	.939	.890	.923	.899	.842	.742
Utah	.966	.956	.938	.933	.942	.921	.854	.821
Washington	.970	.950	.941	.929	.935	.885	.853	.781
Wyoming	.946	.933	.932	.912	.941	.951	.830	.809
Average of Ratios	.954	.933	.934	.908	.932**	.919**	.831**	.780**

* Alaska data include nonpublic schools.

** The Arizona figures are based on year-long enrollments rather than the fall enrollments used in other states. This results necessarily in lower ratios from twelfth-grade enrollment to high-school graduates. The Arizona figures are excluded in calculating the average of ratios.

the cohort born in 1961, which was the peak birth group. A comparable point can be made about Oregon and Washington which, as noted in table 1, had earlier, higher peaks in 1971 and 1974, respectively.

The projections generally assume that these late high school ratios will not show any further decline, even though in many cases there has been a steady decline to the present. This assumption may result in the projections being too high in the short range. A careful assessment of the entire picture is advisable before long-range conclusions are drawn.

Other Factors

Several other factors can be noted. First, since the data presented here are for public schools, the proportion of the total first-grade pupils enrolling in nonpublic schools has a direct bearing on the ratio of first-grade enrollment to births six years earlier. A significant change in this proportion will affect the projections, but if such change is then reflected in the ratio between sixth grade and seventh grade because of nonpublic students transferring to public schools, the impact on projected graduates would be negligible.

Another factor to consider is that increasing participation in preschool programs such as kindergarten and Head Start can be expected to reduce the extent of nonpromotion in the first grade. This would increase the ratio from first grade to second grade but would decrease the ratio between first grade and births six years earlier. On the other hand, the use of minimum competency testing in the first grade or any other grade level would likely have the opposite effect on the ratios.

To the extent that high school graduates are viewed as composing the pool of those qualified to pursue college work, it may be necessary to examine developments regarding other avenues by which individuals become qualified for college. Declining late high school ratios may be related to recent increases in the number of high school equivalency tests taken by seventeen- and eighteen-year-olds.

Methodology and Explanation of State Sections

1. The state higher education agency in each state was asked to put WICHE in touch with the agency concerned with elementary and secondary school enrollments and projections.

2. That agency was asked to provide historical data on births, grade-by-grade enrollments, and high school graduates as reflected in the historical table and the annual births for the years 1973-77 for use in the projections. Separate data for public schools and nonpublic schools were requested, as well as any authoritative projections available. The persons assisting in each state are listed at the end of this report.

3. After questions about the data had been clarified, WICHE compiled the data on a worksheet and calculated the grade-to-grade ratios.

4. Based on study of the historical ratios, ratios for use in the projection were selected and a projection worksheet was completed. Worksheets for the analytical tables and the cohort graph were developed for each state.

5. WICHE sent the worksheets to the contact person in each state asking for comment, particularly on the projections. In most states, a similar request was directed to the state higher education executive officer.

6. The projection technique used is the grade-progression method. Using the historical data, the ratio of enrollment in first grade to number of resident live births six years earlier is calculated for each first-grade group. The ratio of second-grade enrollment one year to first-grade enrollment the previous year is calculated for each second-grade group.

Similarly, a column of ratios is calculated for each move from grade to grade through twelfth grade. The ratio of high school graduates to enrollment in twelfth grade the previous fall is calculated for each high school graduate group. These ratios reflect the combined effect of:

a. migration--in the case of these statewide data, the net migration into or out of the state of individuals of the particular age or grade level involved.
b. dropouts--especially in the later years of secondary school.
c. nonpromotion--there is a tendency for a substantial proportion of first-grade students to be retained in first grade a second year, affecting both the ratio of first grade to births and the ratio of second grade to first grade. Lesser impact of this factor may occur at other grade levels.
d. transfers from or to nonpublic schools--in these public school data, transfers from nonpublic schools affect the ratios, especially between sixth and seventh grade, between eighth and ninth grade, and between ninth and tenth grade. A general closing of nonpublic schools or a general shift to nonpublic schools connected with busing would affect the ratios generally.
e. mortality.

The key step in the projection process is the selection of: (1) the particular ratios to be used for each move from grade to grade; (2) the ratios to be used to translate the known birth figures into projected first-grade enrollments; and (3) the ratio between twelfth-grade enrollment and graduates. In the projections presented in this report, the selection of these ratios was done by examination, rather than using a particular average from a specific period of the recent past. After careful study of the historical ratios, a judgment was made as to the appropriate ratio to use in each case.

7. Graphic comparison of cohorts. In analyzing the historical ratios, it is informative to study the graph contained in each state section. There, the annual births from 1959-77 are plotted for the state and for the United States. The state enrollments in first grade for the years 1965-6[illegible] through

1983-84 are plotted across the same horizontal span, so that on a given vertical line the birth figure and the first-grade figure are for the same age-cohort. Similarly, seventh-grade enrollments and high school graduates are plotted with a given vertical line showing the same age-cohort. For each line, the figures plotted are actuals through 1978 and projections after that.

If there were no migration and if the other factors influencing the size of grade-by-grade enrollments were constant, one would expect each of the lines for a given state to follow the same pattern. The graph for California comes closest to such a picture. Radical departure from such a picture, such as that in Wyoming, is due primarily to migration.

8. Rough measure of relative rate of migration. In each state section, a table shows the change in the total enrollment in grades 2-5 one year as these groups move to grades 3-6 the next year. In a stable population, one would expect a modest decrease of 1 percent or less due primarily to the influence of nonpromotion. Against this background, the annual changes shown give a rough indication of the pace of migration. The same measure is shown for the projected grade groups so that the impact of the projection ratios used can be compared to the historical picture.

9. Nonretention in the late high school years. In examining the historical grade-to-grade ratios, it was noted that there has been a general pattern of decrease in the ratios in the late high school years. This pattern is highlighted in a table in each state section. Again, the projection ratios used are shown so that they can be compared to the historical picture. Generally, the projection ratios assume that there will be no further decline in these late high school ratios beyond the levels reached in the most recent two or three years.

10. Alternative projections. Any analyst, after careful study of the historical ratios, could select a set of ratios to reflect whatever assumptions he wished to use and quickly make his own projections. It is necessary to

point out that, if such projections are to be within the range of reason, the analyst must make the effort to develop a sensitive "feel" for the historical data and the influences at play in them.

11. Monitoring of projections. Any set of projections of this kind can be tested annually against actual developments. Actual grade-by-grade enrollments and high school graduates for each succeeding year can be compared to the projected numbers. In most cases, constant ratios selected for purposes of long-range projections were used in the projections presented here. Variances between the projections and actual data in the short range may not necessarily indicate that the projections are invalid. Here again, thorough study of the whole picture is needed.

12. Nationwide history and projections. Before the individual state sections, an historical table and a projection table for the United States as a whole are shown (tables 5 and 6). Data from these are used in figures 1 and 2, tables 1 and 2, and in the cohort graphs in the state sections.

TABLE 5 - UNITED STATES - BIRTHS, ENROLLMENTS BY GRADE, AND HIGH SCHOOL GRADUATES

SHOWING PROGRESSION RATIOS - PUBLIC SCHOOLS

(All Numbers for Births, Enrollments, and Graduates Are in 000's)

School Year	Births Year	Births Number	Ratio First Grade Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads 12th Grade	Grads
1965-66	1959	4,243	.965	4,097	3,766	3,741	3,609	3,504	3,433	3,406	3,293	3,307	3,057	2,778	2,511	.930	2,334
				.934	.994	.991	.992	.997	1.028	.994	1.036	.959	.948	.951			
1966-67	1960	4,258	.961	4,092	3,828	3,743	3,706	3,581	3,492	3,528	3,385	3,412	3,173	2,898	2,641	.902	2,381
				.949	.999	.999	1.005	1.007	1.035	.996	1.048	.987	.949	.910			
1967-68	1961	4,268	.974	4,155	3,885	3,823	3,741	3,723	3,607	3,614	3,515	3,546	3,369	3,012	2,638	.911	2,402
				.943	.989	.988	.993	.994	1.025	.985	1.038	.970	.922	.916			
1968-69	1962	4,167	.980	4,082	3,918	3,844	3,777	3,716	3,701	3,696	3,560	3,647	3,441	3,106	2,760	.916	2,529
				.950	.991	.994	1.000	1.001	1.034	.992	1.042	.971	.922	.915			
1969-70	1963	4,098	.982	4,026	3,876	3,883	3,820	3,777	3,721	3,825	3,668	3,708	3,541	3,171	2,841	.914	2,596
				.948	.987	[illegible]	.994	.996	1.028	.984	1.039	.972	.921	.912			
1970-71	1964	4,027	.990	3,985	3,817	3,827	3,841	3,798	3,761	3,827	3,763	3,810	3,606	3,261	2,893	.914	2,644
				.942	.991	.991	.998	.998	1.032	.994	1.055	.984	.932	.921			
1971-72	1965	3,760	.994	3,737	3,755	3,781	3,792	3,833	3,791	3,883	3,805	3,969	3,748	3,360	3,005	.900	2,706
				.950	.989	.993	.998	1.001	1.032	.991	1.040	.963	.906	.894			
1972-73	1966	3,606	.979	3,529	3,351	3,714	3,753	3,785	3,837	3,913	3,847	3,956	3,821	3,394	3,004	.911	2,737
				.952	.988	.993	.992	.999	1.026	.988	1.036	.967	.911	.899			
1973-74	1967	3,521	.968	3,407	3,359	3,508	3,687	3,722	3,781	3,936	3,868	3,985	3,825	3,480	3,053	.908	2,771
				.956	.989	.999	.998	1.002	1.029	.987	1.037	.965	.903	.888			
1974-75	1968	3,502	.958	3,354	3,256	3,323	3,506	3,678	3,730	3,889	3,886	4,011	3,845	3,455	3,090	.916	2,830
				.958	.991	.997	.993	1.001	1.028	.991	1.042	.970	.910	.902			
1975-76	1969	3,600	.953	3,432	3,213	3,227	3,312	3,483	3,682	3,835	3,853	4,049	3,890	3,499	3,117	.910	2,837
				.952	.985	.993	.998	1.003	1.029	.990	1.037	.965	.908	.900			
1976-77	1970	3,731	.946	3,529	3,268	3,166	3,206	3,304	3,494	3,790	3,795	3,997	3,909	3,531	3,149	.901	2,837

Sources: Digest of Education Statistics, 1977-78 Edition, National Center for Education Statistics;
Statistical Abstracts of the United States;
Projections of Education Statistics to 1986-87, NCES;
Statistics of Public Elementary and Secondary Day Schools 1977-1978 School Year (Final), NCES.

TABLE 6 - UNITED STATES - PROJECTIONS OF ENROLLMENTS BY GRADE AND HIGH SCHOOL GRADUATES - PUBLIC SCHOOLS

(All Numbers Are in 000's)

School Year	Births Year	Births Number	Ratio First Grade Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads 12th Grade	Grads
1976-77 (Act)	1970	3,731	.946	3,529	3,268	3,166	3,206	3,304	3,494	3,790	3,795	3,997	3,909	3,531	3,149	.901	2,837
Projection Ratios				.955	.989	.995	.995	1.002	1.030	.990	1.040	.967	.908	.900			
1977-78	1971	3,556	.945	3,360	3,370	3,232	3,150	3,190	3,311	3,599	3,752	3,947	3,865	3,549	3,178	.900	2,860
				.955													
1978-79	1972	3,258	.945	3,079	3,209	3,333	3,216	3,134	3,196	3,410	3,563	3,902	3,817	3,509	3,194	"	2,875
				.955													
1979-80	1973	3,137	.945	2,964	2,940	3,174	3,316	3,200	3,140	3,292	3,376	3,706	3,773	3,466	3,158	"	2,842
				.955													
1980-81	1974	3,160	.945	2,986	2,831	2,908	3,158	3,299	3,206	3,234	3,259	3,511	3,584	3,426	3,119	"	2,807
				.955													
1981-82	1975	3,144	.945	2,971	2,852	2,800	2,893	3,142	3,306	3,302	3,202	3,389	3,395	3,254	3,083	.900	2,775
				.955													
1982-83	1976	3,168	.945	2,994	2,837	2,821	2,786	2,879	3,148	3,405	3,269	3,330	3,277	3,083	2,929	"	2,636
				.955													
1983-84	1977	3,327	.945	3,144	2,859	2,806	2,807	2,772	2,885	3,242	3,371	3,400	3,220	2,976	2,775	"	2,498
1984-85					3,003	2,828	2,792	2,793	2,778	2,972	3,210	3,506	3,288	2,924	2,678	"	2,410
1985-86						2,970	2,814	2,778	2,799	2,861	2,942	3,338	3,390	2,986	2,632	"	2,369
1986-87							2,955	2,800	2,784	2,883	2,832	3,060	3,228	3,078	2,687	.900	2,418
1987-88								2,940	2,806	2,868	2,854	2,945	2,959	2,931	2,770	"	2,493
1988-89									2,946	2,890	2,839	2,968	2,848	2,687	2,638	"	2,374
1989-90										3,034	2,861	2,953	2,870	2,586	2,418	"	2,176
1990-91											3,004	2,975	2,856	2,606	2,327	"	2,094
1991-92												3,124	2,877	2,593	2,345	.900	2,111
1992-93													3,021	2,612	2,334	"	2,101
1993-94														2,743	2,351	"	2,116
1994-95															2,469	.900	2,222

State Sections

Alaska

The enrollments and high school graduates for Alaska, both historical and projected, include both public and nonpublic schools. For all the other states, only public-school data are shown.

In the Measure of Migration table below, the indicated migration fluctuates greatly year by year. These fluctuations are not readily explained by known events in Alaska, which reduces confidence in the projections. The projected numbers in this table suggest that the projection ratios used may be somewhat low. Careful monitoring of the projections against actual enrollments year-by-year is suggested.

No authoritative projections generated at the state level were identified.

MEASURE OF MIGRATION - GRADES 2-6

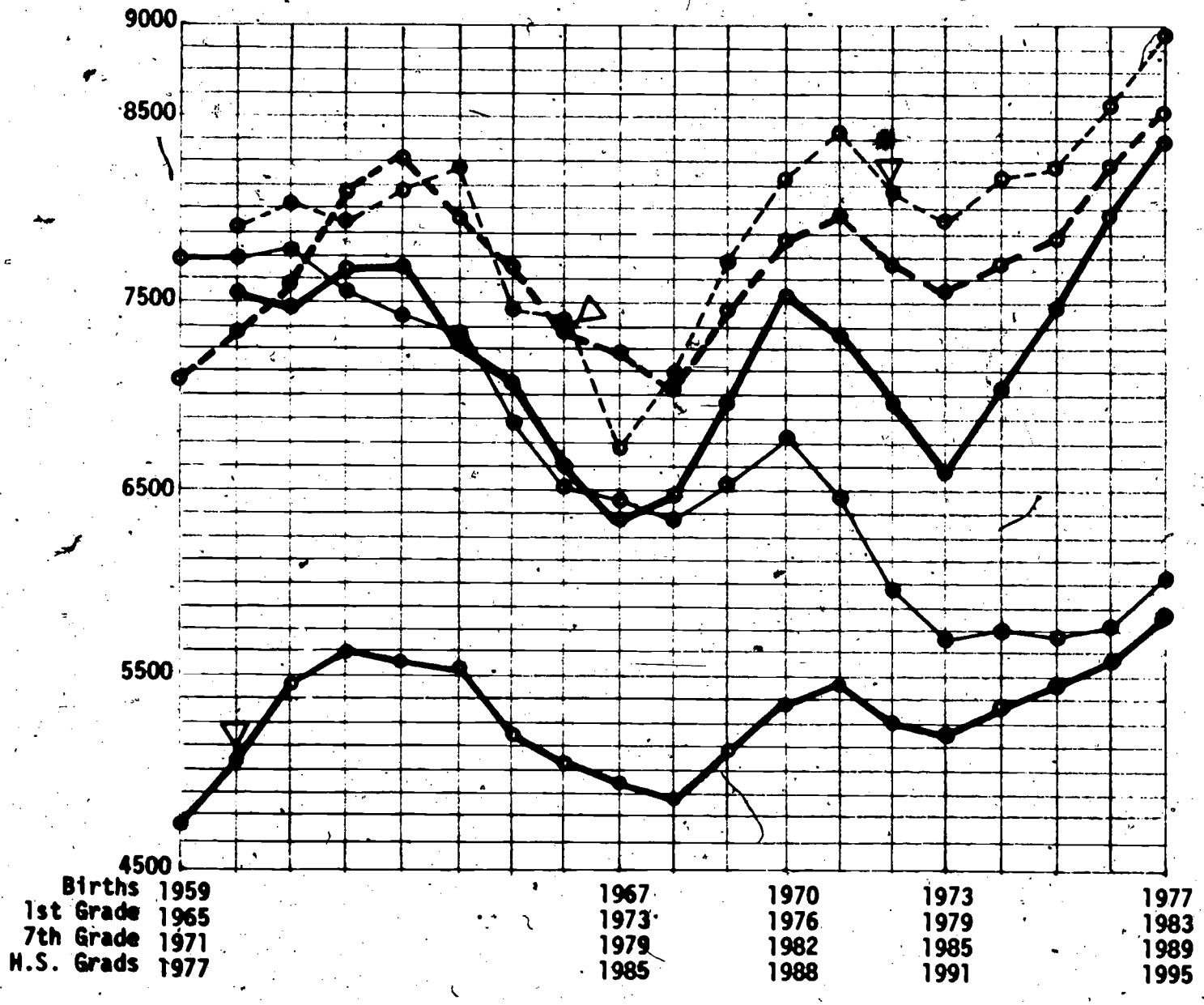
Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference	Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference
1966	--	25,820	--	1976	29,211	28,828	-383
1967	26,913	26,610	- 303	1977	28,521	29,385	+864
1968	27,755	27,305	- 450	1978	29,804	29,516	-288
					Projected		
1969	28,125	28,748	+ 623	1979	30,259	30,215	- 44
1970	29,609	29,896	+ 287	1980	30,903	30,860	- 43
1971	30,650	30,830	+ 180	1981	30,988	30,950	- 38
1972	31,538	31,177	- 361	1982	30,889	30,853	- 36
1973	30,640	30,082	- 558	1983	30,755	30,715	- 40
1974	29,375	30,724	+1,349	1984	31,202	31,162	- 40
1975	29,706	30,397	+ 691	1985	32,185	32,141	- 44

HIGH SCHOOL RETENTION - GRADE 10 TO GRADUATES

Period	Average Retention Ratios: 10th Grade to 11th Grade	11th Grade to 12th Grade	12th Grade to Graduates	Three Ratios Compounded
1965-66 to 1970-71	.955	.936	.938	.838
1973-74 to 1978-79	.900	.895	.910	.733
Projections				
1979-80 to 1994-95	.900	.900	.890	.721

ALASKA COHORT GRAPH

1st grade — — — 7th grade — — — U.S. births ÷ 550 ——
AK births ═══ H.S. grads ▬▬▬ 1978 actuals; projections beyond ▽



ALASKA - BIRTHS, ENROLLMENTS BY GRADE, AND HIGH SCHOOL GRADUATES

SHOWING PROGRESSION RATIOS - PUBLIC SCHOOLS*

School Year	Births Year	Births Number	Ratio First Grade/Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grade 12th/Grade	Grade
1965-66	--Data not provided.--																
1966-67	1960	7,518	1.042	7,837	7,070	6,896	6,680	6,267	5,977	5,670	5,122	4,476	3,765	3,230	2,860	.972	2,781
				.947	.978	.979	.998	1.001	1.014	.976	.963	.994	.984	.970			
1967-68	1961	7,485	1.070	8,008	7,419	6,916	6,753	6,667	6,274	6,061	5,534	4,934	4,451	3,703	3,134	.891	2,793
				.929	.944	1.000	1.002	.993	1.006	.983	1.001	1.031	.983	.969			
1968-69	1962	7,676	1.026	7,875	7,438	7,007	6,916	6,764	6,618	6,314	5,958	5,541	5,087	4,377	3,590	.943	3,385
				.989	1.001	1.045	1.019	1.025	1.019	1.004	1.006	.982	.925	.904			
1969-70	1963	7,676	1.053	8,080	7,792	7,447	7,324	7,046	6,931	6,741	6,339	5,992	5,439	4,707	3,955	.934	3,695
				.981	1.003	1.025	.993	1.018	1.009	.993	.988	.963	.926	.900			
1970-71	1964	7,265	1.134	8,238	7,924	7,816	7,636	7,274	7,170	6,994	6,691	6,262	5,773	5,036	4,235	.949	4,021
				.981	.992	1.014	1.006	1.013	.987	1.003	.987	.972	.894	.881			
1971-72	1965	7,061	1.055	7,447	8,078	7,859	7,922	7,679	7,370	7,079	7,014	6,603	6,089	5,162	4,438	.924	4,099
				.948	.996	1.007	.992	.990	1.000	.991	.959	.952	.873	.840			
1972-73	1966	6,606	1.117	7,381	7,063	7,807	7,912	7,858	7,600	7,368	7,016	6,728	6,283	5,317	4,334	.956	4,142
				.944	.989	.987	.975	.977	1.002	.979	.978	.934	.865	.844			
1973-74	1967	6,317	1.066	6,734	6,970	6,988	7,702	7,715	7,677	7,615	7,210	6,860	6,283	5,432	4,490	.986	4,426
				1.044	1.042	1.060	1.039	1.043	1.048	1.015	1.030	1.002	.916	.892			
1974-75	1968	6,451	1.095	7,063	7,032	7,265	7,410	7,999	8,050	8,048	7,730	7,429	6,876	5,753	4,846	.911	4,414
				.979	1.026	1.025	1.030	1.013	1.026	1.016	1.024	.953	.896	.869			
1975-76	1969	6,913	1.117	7,724	6,915	7,214	7,448	7,634	8,101	8,252	8,180	7,912	7,082	6,160	4,998	.886	4,427
				.940	1.005	.971	.980	.991	.978	.977	.990	.931	.887	.860			
1976-77	1970	7,558	1.077	8,138	7,262	6,952	7,005	7,302	7,569	7,921	8,065	8,100	7,369	6,279	5,298	.888	4,705
				.968	1.060	1.010	1.030	1.021	1.011	1.016	1.014	.956	.892	.915			
1977-78	1971	7,312	1.148	8,397	7,875	7,697	7,019	7,213	7,456	7,652	8,047	8,178	7,746	6,576	5,748	.880	5,058
				.951	1.000	.963	.996	1.004	.985	.984	1.009	.948	.907	.937			
1978-79	1972	6,946	1.163	8,075	7,985	7,874	7,411	6,989	7,242	7,347	7,529	8,121	7,751	7,022	6,159		

* These Alaska data include nonpublic schools, unlike all other states.

* ALASKA - PROJECTIONS OF ENROLLMENTS BY GRADE AND HIGH SCHOOL GRADUATES - PUBLIC SCHOOLS *

School Year	Births Year	Births Number	Ratio First Grade / Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads / 12th Grade	Grads
1978-79 (Act)	1972	8,946	1.163	8,075	7,985	7,874	7,411	6,989	7,242	7,349	7,529	8,121	7,751	7,022	6,159	.890	5,482 (Proj.)
Progression Ratios					.955	1.000	.990	1.000	1.005	1.000	.990	1.010	.950	.900	.900		
1979-80	1973	8,611	1.200	7,933	7,712	7,985	7,795	7,411	7,024	7,242	7,274	7,604	7,715	6,976	6,320	.890	5,625
1980-81	1974	7,077	1.150	8,139	7,576	7,712	7,905	7,795	7,448	7,024	7,170	7,347	7,224	6,944	6,278	"	5,587
1981-82	1975	7,470	1.100	8,217	7,773	7,576	7,635	7,905	7,834	7,448	6,954	7,242	6,980	6,502	6,250	"	5,563
1982-83	1976	7,912	1.080	8,545	7,847	7,773	7,500	7,635	7,943	7,834	7,374	7,024	6,880	6,282	5,852	"	5,208
1983-84	1977	8,378	1.070	8,964	8,160	7,847	7,695	7,500	7,673	7,945	7,756	7,448	6,673	6,192	5,654	"	5,032
1984-85					8,561	8,160	7,769	7,695	7,538	7,673	7,866	7,834	7,076	6,006	5,573	.890	4,960
1985-86						8,561	8,078	7,769	7,733	7,538	7,596	7,945	7,442	6,368	5,405	"	4,810
1986-87							8,475	8,078	7,808	7,733	7,463	7,672	7,548	6,698	5,731	"	5,101
1987-88								8,475	8,118	7,808	7,656	7,538	7,288	6,793	6,028	"	5,365
1988-89									8,517	8,118	7,730	7,733	7,161	6,559	6,114	"	5,441
1989-90										8,517	8,037	7,807	7,346	6,445	5,903	.890	5,254
1990-91											8,432	8,117	7,417	6,611	5,801	"	5,163
1991-92												8,516	7,711	6,675	5,950	"	5,296
1992-93													8,090	6,940	6,008	"	5,347
1993-94														7,281	6,246	"	5,559
1994-95															6,553	.890	5,832

* These Alaska data include nonpublic schools, unlike all other states.

Arizona

In all of the states except Arizona, the enrollments in the historical table and the projection table are fall membership figures as of about October 1. Such data are not available on any consistent basis for Arizona, nor are any other fall data. Therefore, the data for Arizona are year-long membership figures, the only consistent series available.

The figures for high school graduates are those graduating at the end of the year. About 2,500 students have graduated annually during the school year in recent years. They are not reflected in the data. Available data on nonpublic schools are not consistent. About 1,500 nonpublic school students graduate annually.

The only projection generated at the state level is out-of-date, extends only to 1980-81, and projects only twelfth grade enrollments, not graduates.

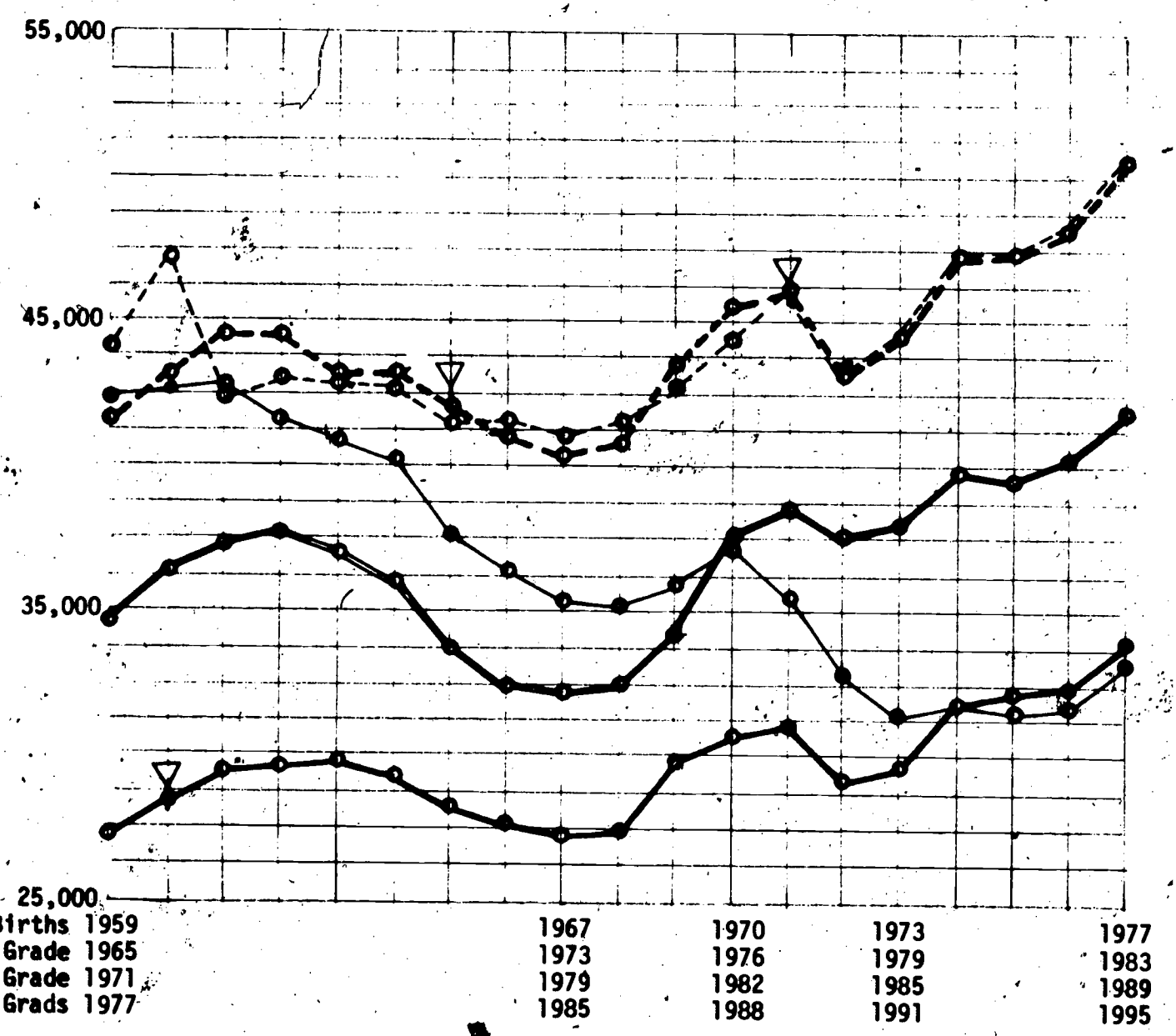
MEASURE OF MIGRATION - GRADES 2-6

Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference	Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference
1966	140,658	140,446	- 212	1976	155,480	155,574	+ 94
1967	143,916	143,109	- 807	1977	155,087	159,324	+4,237
					Projected		
1968	146,252	148,537	+2,285	1978	161,955	163,435	+1,480
1969	150,474	155,694	+5,220	1979	167,135	168,660	+1,525
1970	157,631	160,076	+2,445	1980	169,423	171,008	+1,585
1971	160,522	165,052	+4,530	1981	169,837	171,403	+1,566
1972	164,273	170,643	+6,370	1982	171,243	172,818	+1,575
1973	166,943	167,833	+ 890	1983	172,469	174,053	+1,584
1974	163,245	163,707	+ 462	1984	177,151	178,770	+1,619
1975	158,854	159,410	+ 556	1985	182,936	184,610	+1,674

HIGH SCHOOL RETENTION - GRADE 10 TO GRADUATES

Period	Average Retention Ratios: 10th Grade to 11th Grade	11th Grade to 12th Grade	12th Grade to Graduates	Three Ratios Compounded
1965-66 to 1970-71	.946	.936	.818	.724
1973-74 to 1977-78	.925	.908	.777	.653
Projections				
1978-79 to 1994-95	.930	.915	.780	.664

ARIZONA COHORT GRAPH



ARIZONA - BIRTHS, ENROLLMENTS BY GRADE,* AND HIGH SCHOOL GRADUATES

SHOWING PROGRESSION RATIOS - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads 12th Grade	Grads
1965-66	1959	34,483	1.273	43,911	36,275	36,080	34,555	33,748	33,194	32,415	30,927	30,677	27,369	25,177	23,167	.815	18,877
					.849	.989	1.001	1.002	1.002	1.008	.997	1.024	.953	.941	.939		
1966-67	1960	36,655	1.294	47,414	37,298	35,872	36,115	34,631	33,828	33,475	32,317	31,677	29,221	25,747	23,644	.822	19,447
					.797	.984	.999	.995	1.000	1.004	.997	1.025	.955	.936	.936		
1967-68	1961	37,378	1.133	42,334	37,775	36,716	35,822	35,939	34,632	33,955	33,390	33,123	30,249	27,359	24,088	.816	19,654
					.916	.991	1.026	1.022	1.025	1.036	1.020	1.052	.972	.953	.940		
1968-69	1962	37,785	1.135	42,900	38,759	37,430	37,682	36,603	36,822	35,891	34,638	35,127	32,209	28,837	25,706	.819	21,056
					.931	1.026	1.045	1.030	1.038	1.045	1.032	1.063	.976	.953	.936		
1969-70	1963	36,986	1.173	43,374	39,924	39,750	39,129	38,828	37,987	38,472	37,024	36,814	34,289	30,710	26,979	.817	22,040
					.929	1.000	1.024	1.013	1.026	1.033	1.014	1.056	.962	.945	.930		
1970-71	1964	36,169	1.189	42,992	40,276	39,905	40,705	39,636	39,830	39,254	39,011	39,093	35,404	32,393	28,549	.820	23,407
					.938	1.015	1.035	1.025	1.037	1.038	1.021	1.065	.975	.948	.926		
1971-72	1965	33,762	1.234	41,676	40,327	40,887	41,321	41,738	41,106	41,341	40,080	41,548	38,135	33,563	30,010	.798	23,953
					.958	1.028	1.040	1.041	1.045	1.051	1.018	1.062	.964	.928	.915		
1972-73	1966	32,326	1.282	41,448	39,927	41,462	42,523	43,031	43,627	43,187	42,102	42,584	40,069	35,377	30,699	.782	24,012
					.938	.995	1.007	1.008	1.010	1.025	1.009	1.048	.959	.934	.911		
1973-74	1967	32,279	1.274	41,129	38,892	39,737	41,748	42,868	43,480	44,730	43,592	44,142	40,838	37,407	32,220	.774	24,924
					.934	.981	1.017	1.004	1.009	1.028	1.000	1.034	.937	.903	.886		
1974-75	1968	32,486	1.277	41,498	38,404	38,144	40,398	41,908	43,257	44,704	44,748	45,065	41,369	36,892	33,141	.774	25,665
					.930	.993	1.018	.989	1.015	1.004	.969	1.029	.931	.921	.903		
1975-76	1969	34,215	1.249	42,742	38,589	38,130	38,824	39,937	42,519	43,416	43,333	46,065	41,974	38,119	33,314	.781	26,019
					.939	.994	.994	.998	1.017	1.021	1.012	1.059	.956	.945	.926		
1976-77	1970	37,591	1.183	44,464	40,123	38,351	37,886	38,727	40,610	43,424	43,927	45,868	44,019	39,655	35,314	.771	27,223
					.963	1.024	1.017	1.031	1.038	1.039	1.000	1.053	.963	.929	.917		
1977-78	1971	38,521	1.197	46,099	42,821	41,095	38,992	39,047	40,190	42,177	43,434	46,268	44,161	40,907	36,357	.786	28,589

* These Arizona enrollments by grade are cumulative, year-long membership numbers, whereas in all other states the enrollments are fall membership counts as of about October 1.

ARIZONA - PROJECTIONS OF ENROLLMENTS BY GRADE* AND HIGH SCHOOL GRADUATES - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade / Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads / 12th Grade	Grads
1978-79*	1972	37,501	1.150	43,126	43,333	42,821	41,794	39,187	39,633	41,195	42,388	45,606	44,417	41,070	37,430	.780	29,195 (Proj.)
Progression Ratios					.940	1.000	1.017	1.005	1.015	1.025	1.005	1.050	.960	.930	.915		
1979-80	1973	38,025	1.160	44,109	40,538	43,333	43,549	42,003	39,775	40,624	41,401	44,507	43,782	41,308	37,579	"	29,312
1980-81	1974	39,906	1.180	47,089	41,4[illegible]	40,538	44,070	43,767	42,633	40,769	40,827	43,471	42,727	40,717	37,797	"	29,482
1981-82	1975	39,543	1.200	47,452	44,264	41,462	41,227	44,290	44,424	43,699	40,973	42,868	41,732	39,736	37,256	"	29,060
1982-83	1976	40,028	1.200	48,034	44,605	44,264	42,167	41,433	44,954	45,535	43,917	43,022	41,153	38,811	36,358	"	28,359
1983-84	1977	41,827	1.200	50,192	45,152	44,605	45,016	42,378	42,054	46,078	45,763	46,113	41,301	38,272	35,512	.780	27,699
1984-85					47,180	45,152	45,363	45,241	43,014	43,105	46,308	48,051	44,268	38,410	35,019	"	27,315
1985-86						47,180	45,920	45,590	45,920	44,089	43,321	48,623	46,129	41,169	35,145	"	27,413
1986-87							47,982	46,150	46,274	47,068	44,309	45,487	46,678	42,900	37,670	"	29,383
1987-88								48,222	46,842	47,431	47,303	46,524	43,668	43,411	39,254	.780	30,618
1988-89									48,945	48,013	47,668	49,668	44,663	40,611	39,721	"	30,982
1989-90										50,169	48,253	50,051	47,681	41,537	37,159	"	28,984
1990-91											50,420	50,666	48,049	44,343	38,006	"	29,645
1991-92												52,941	48,639	44,686	40,574	"	31,628
1992-93													50,823	45,234	40,888	.780	31,893
1993-94														47,265	41,389	"	32,283
1994-95															43,247	.780	33,733

* These Arizona enrollments are cumulative, year-long membership numbers, whereas in all other states the enrollments are fall membership counts as of about October 1. For this reason, the 1978-79 enrollments are projections, unlike the other states.

California

In addition to the "day" graduates reflected in the data of this report, California reports "evening" graduates, between 15,000 and 20,000 annually over the last thirteen years. These individuals are not reflected in the enrollments in twelfth grade, and their fluctuating numbers bear no apparent relationship to either twelfth grade enrollments or "day" graduates.

Nonpublic school enrollments and graduates are not reflected in this report. There has been a quite consistent annual number of graduates, about 20,000, over the last ten years. An increase in nonpublic elementary school enrollments in the last few years suggests that the numbers of graduates might hold steady or even increase moderately over the next ten years.

The Department of Finance makes ten-year projections of enrollments and graduates that are updated annually. The projection ratios used in its latest official projection are quite comparable to those used here. However, it uses a ratio of graduates to twelfth grade based on an average of the last five years, while the ratio used in WICHE's projections is considerably smaller, close to the most recent year's ratio. This produces a roughly constant difference of about 8,000 in the projected numbers of high school graduates, the Department of Finance's being larger.

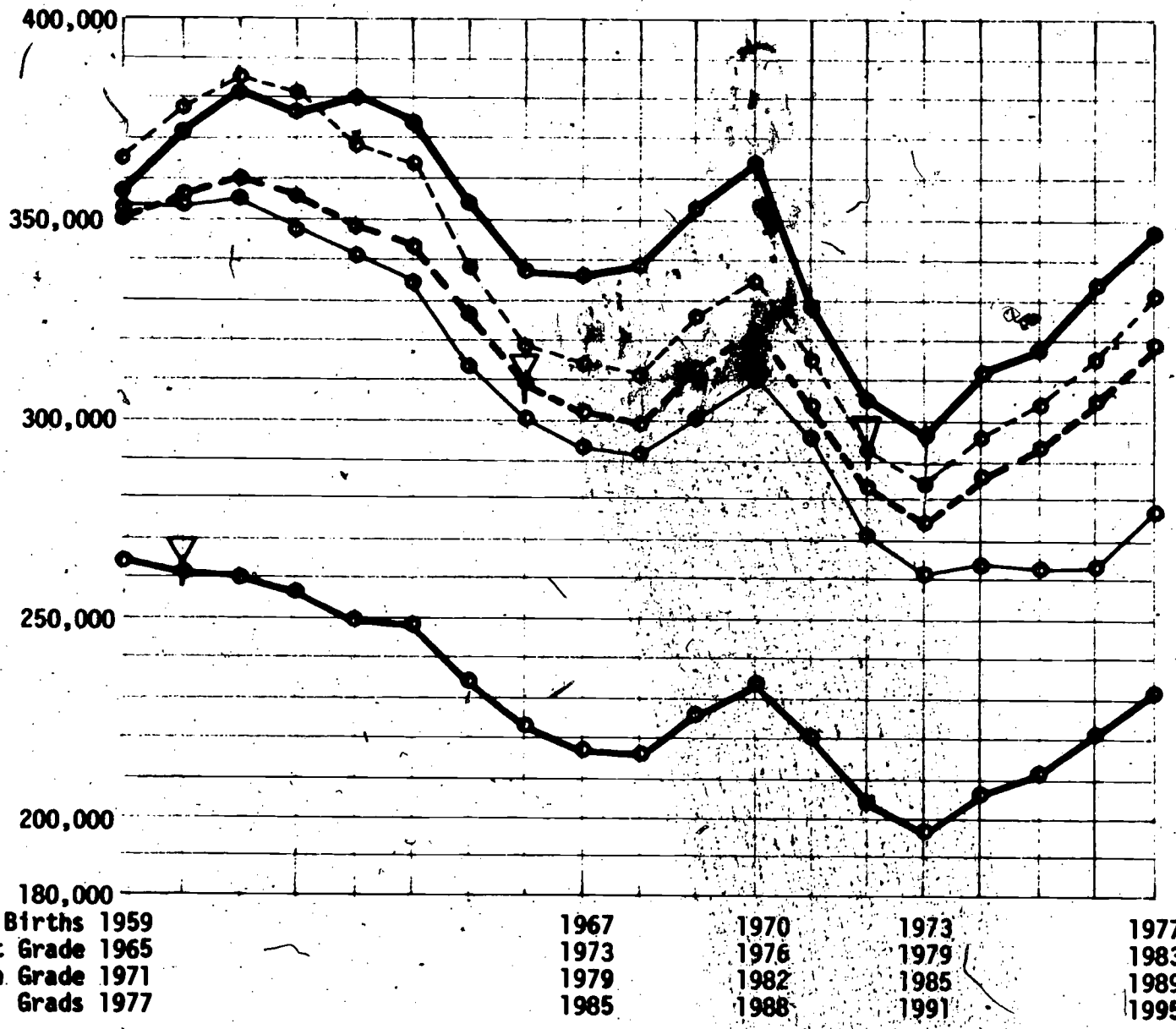
MEASURE OF MIGRATION - GRADES 2-6

Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference	Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference
1966	1,342,917	1,342,091	- 826	1976	1,233,130	1,231,484	- 1,646
1967	1,372,039	1,369,440	- 2,599	1977	1,225,772	1,218,920	- 6,852
1968	1,394,461	1,392,918	- 1,543	1978	1,237,316	1,224,282	-13,034
					Projected		
1969	1,413,941	1,402,157	-11,784	1979	1,231,185	1,226,532	- 4,653
1970	1,421,697	1,418,231	- 3,466	1980	1,213,107	1,208,762	- 4,345
1971	1,424,668	1,410,761	-13,907	1981	1,174,889	1,170,734	- 4,155
1972	1,403,050	1,394,763	- 8,287	1982	1,140,616	1,136,372	- 4,244
1973	1,363,191	1,356,602	- 6,589	1983	1,128,831	1,124,472	- 4,359
1974	1,312,096	1,311,278	- 818	1984	1,152,411	1,147,889	- 4,522
1975	1,269,917	1,270,450	+ 533	1985	1,197,985	1,193,252	- 4,733

HIGH SCHOOL RETENTION - GRADE 10 TO GRADUATES

Period	Average Retention Ratios: 10th Grade to 11th Grade	11th Grade to 12th Grade	12th Grade to Graduates	Three Ratios Compounded
1965-66 to 1970-71	.948	.914	.937	.812
1973-74 to 1978-79	.924	.865	.930	.743
Projections				
1979-80 to 1994-95	.915	.860	.910	.716

CALIFORNIA COHORT GRAPH



CALIFORNIA - BIRTHS, ENROLLMENTS BY GRADE, AND HIGH SCHOOL GRADUATES

SHOWING PROGRESSION RATIOS - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads 12th Grade	Day Grads
1965-66	1959	358,682	1.019	365,660	345,987	343,051	333,001	320,878	318,579	314,227	304,730	302,130	292,206	273,211	242,966	.932	226,404
				.963	.990	.999	1.005	1.004	1.025	1.007	1.039	1.006	.947	.916			
1966-67	1960	371,799	1.013	376,536	352,201	342,502	342,731	334,605	322,253	326,477	316,406	316,761	303,971	276,712	250,388	.935	234,054
				.959	.987	.998	1.003	1.004	1.021	1.004	1.033	1.001	.947	.915			
1967-68	1961	381,198	1.011	385,406	361,108	347,795	341,748	343,810	336,087	329,156	327,921	326,803	317,032	287,854	253,117	.935	236,726
				.952	.988	.997	1.004	1.007	1.021	1.006	1.030	.997	.948	.910			
1968-69	1962	378,347	1.009	381,877	367,075	356,874	346,893	343,099	346,052	343,158	331,111	337,640	325,812	300,569	261,833	.941	246,285
				.947	.983	.990	.997	.997	1.012	.986	1.025	.996	.946	.926			
1969-70	1963	380,505	.971	369,444	361,714	360,699	353,329	345,955	342,174	350,222	338,451	339,470	336,307	308,337	278,452	.936	260,756
				.957	.987	.998	1.002	1.003	1.017	.996	1.034	1.001	.951	.905			
1970-71	1964	374,585	.971	363,610	353,539	357,044	359,885	354,200	347,102	348,116	348,968	349,900	339,946	319,994	279,046	.942	262,878
				.949	.980	.990	.995	.996	1.009	.995	1.029	.994	.944	.901			
1971-72	1965	355,074	.956	339,513	345,225	346,454	353,460	357,911	352,936	350,353	346,205	359,227	347,850	321,006	288,319	.942	271,454
				.959	.987	.994	.997	.998	1.011	.996	1.030	.988	.938	.882			
1972-73	1966	337,621	.948	319,910	325,475	340,847	344,340	352,529	357,047	356,688	348,913	356,537	354,954	326,281	283,157	.947	268,178
				.963	.988	.995	.997	1.000	1.010	.995	1.026	.989	.935	.877			
1973-74	1967	336,304	.932	313,541	308,131	321,468	339,128	343,369	352,637	360,576	354,754	357,817	352,555	331,987	286,095	.942	269,541
				.968	.992	.999	1.002	1.004	1.011	.995	1.028	.989	.928	.871			
1974-75	1968	339,221	.020	311,933	303,393	305,526	321,199	339,799	344,754	356,357	358,918	364,701	353,856	327,264	289,293	.945	273,411
				.974	.993	1.000	1.003	1.004	1.013	1.000	1.028	.993	.937	.881			
1975-76	1969	342,837	.922	325,352	303,934	301,382	305,654	322,160	341,254	349,336	356,259	368,831	362,118	331,633	288,319	.931	268,425
				.975	.991	.997	1.004	1.002	1.009	.992	1.024	.993	.928	.862			
1976-77	1970	362,652	.922	334,415	317,153	301,263	300,512	306,844	322,865	344,250	346,471	364,665	366,299	336,067	285,868	.926	264,625
				.971	.987	.994	.999	.998	1.013	.997	1.030	.991	.917	.857			
1977-78	1971	379,826	.957	315,522	324,770	312,914	299,363	300,269	306,374	326,945	343,366	356,094	361,258	335,979	288,117	.908	261,698
				.964	.985	.988	.991	.994	1.010	.986	1.020	.977	.909	.853			
1978-79	1972	406,175	.952	297,757	325,439	319,833	309,192	296,721	298,536	309,292	322,474	350,186	347,841	328,259	286,679		

CALIFORNIA - PROJECTIONS OF ENROLLMENTS BY GRADE AND HIGH SCHOOL GRADUATES - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads 12th Grade	Day Grads
1978-79 (Act)	1972	306,375	.952	291,757	305,439	319,833	309,192	296,721	298,536	309,292	322,474	350,186	347,841	328,255	286,679	.910	260,878 (Proj.)
Progression Ratios				.971	.990	.995	1.000	1.000	1.011	.995	1.026	.990	.915	.860			
1979-80	1973	297,838	.952	283,542	283,296	302,385	318,234	309,192	296,721	301,820	307,746	330,858	346,684	318,275	282,299	.910	256,892
1980-81	1974	311,682	.952	296,721	275,319	280,463	300,873	318,234	309,192	299,985	300,311	315,747	327,549	317,216	273,717	"	249,082
1981-82	1975	317,325	.952	302,093	288,116	272,866	279,061	300,873	318,234	312,593	298,485	308,119	312,590	299,707	272,806	"	248,253
1982-83	1976	332,110	.952	316,169	293,332	285,235	271,203	279,061	300,873	321,735	311,030	306,248	305,038	286,020	257,748	"	234,551
1983-84	1977	347,579	.952	330,895	307,000	290,399	283,809	271,203	279,061	304,183	320,126	319,117	303,184	279,110	245,977	"	223,839
1984-85					321,299	303,930	288,947	283,809	271,203	282,131	302,662	328,449	315,926	277,413	240,035	.910	218,432
1985-86						318,086	302,410	288,947	283,809	274,186	280,720	310,531	325,165	289,072	238,575	"	217,103
1986-87							316,496	302,410	288,947	286,931	272,815	288,019	307,426	297,526	248,602	"	226,228
1987-88								316,496	302,410	292,125	285,496	279,908	285,139	281,295	255,872	"	232,844
1988-89									316,496	305,737	290,664	292,919	277,109	260,902	241,914	"	220,142
1989-90										319,977	304,208	298,221	289,990	253,555	224,376	.910	204,182
1990-91											318,377	312,117	295,239	265,341	218,057	"	198,432
1991-92												326,655	308,996	270,144	228,193	"	207,656
1992-93													323,388	282,731	232,324	"	211,415
1993-94														295,900	243,149	"	221,266
1994-95															254,474	.910	231,571

Colorado

The historical enrollment data available in the records of the Department of Education contain inconsistent year-to-year reporting of "ungraded" enrollments versus enrollments in the individual grades. Therefore, the historical figures are estimates in which most ungraded enrollments were distributed to individual grades based on detailed analysis of the data reported by the individual school districts involved.

No useful data are available on nonpublic school enrollments. Based on very sketchy information, it is estimated that about 1,700 students graduate from nonpublic schools annually.

No authoritative projections are generated at the state level.

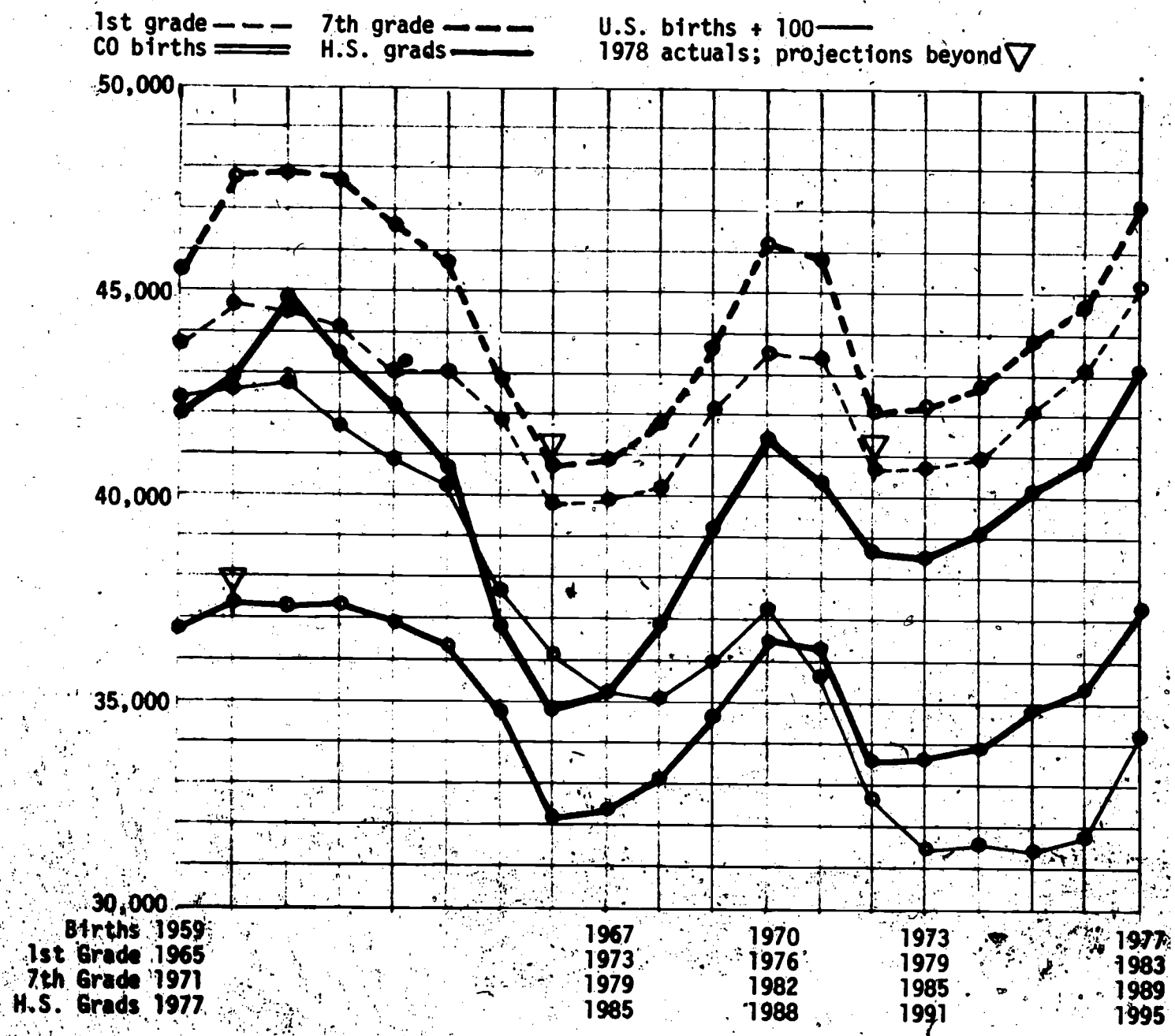
MEASURE OF MIGRATION - GRADES 2-6

Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference	Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference
1966	159,799	158,901	- 898	1976	159,155	159,285	+ 130
1967	162,287	162,437	+ 150	1977	158,569	159,568	+ 999
1968	165,609	166,716	+1,107	1978	163,582	166,030	+2,448
						Projected	
1969	168,911	171,694	+2,783	1979	169,525	170,616	+1,091
1970	172,942	176,190	+3,248	1980	169,874	170,994	+1,120
1971	175,138	180,822	+5,684	1981	168,440	169,555	+1,115
1972	178,143	182,524	+4,381	1982	165,187	166,266	+1,079
1973	177,170	178,212	+1,042	1983	163,438	164,494	+1,056
1974	170,572	171,098	+ 526	1984	166,068	166,969	+ 901
1975	164,483	164,251	- 232	1985	170,648	171,744	+1,096

HIGH SCHOOL RETENTION - GRADE 10 TO GRADUATES

Period	Average Retention Ratios: 10th Grade to 11th Grade	11th Grade to 12th Grade	12th Grade to Graduates	Three Ratios Compounded
1965-66 to 1970-71	.956	.940	.917	.824
1973-74 to 1978-79	.941	.909	.909	.778
Projections				
1979-80 to 1994-95	.940	.910	.910	.778

COLORADO COHORT GRAPH



COLORADO - BIRTHS, ENROLLMENTS BY GRADE,* AND HIGH SCHOOL GRADUATES

SHOWING PROGRESSION RATIOS - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade / Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads / 12th Grade	Grads
1965-66	1959	41,984	1.041	43,714	41,260	40,581	39,490	38,468	38,219	37,347	36,226	35,508	33,143	[illegible],646	29,288	.897	26,281
				.959	.984	.993	1.000	1.002	1.016	.999	1.017	1.003	.960	.935			
1966-67	1960	42,905	1.038	44,556	41,922	40,586	40,306	39,473	38,536	38,849	37,314	36,845	35,600	31,832	29,603	.906	26,831
				.960	.989	1.005	1.008	1.003	1.022	.996	1.019	.997	.946	.937			
1967-68	1961	44,648	.996	44,483	42,768	41,440	40,781	40,620	39,596	39,372	38,708	38,021	36,736	33,684	29,842	.935	27,889
				.970	1.001	1.009	1.009	1.008	1.028	1.007	1.020	1.006	.961	.950			
1968-69	1962	43,594	1.010	44,048	43,148	42,806	41,815	41,142	40,953	40,714	39,637	39,473	38,251	36,307	31,993	.918	29,381
				.980	1.007	1.019	1.020	1.019	1.033	1.013	1.026	1.020	.956	.933			
1969-70	1963	42,179	1.022	43,126	43,196	43,462	43,625	42,669	41,938	42,306	41,234	40,684	40,278	36,551	32,946	.920	30,312
				.987	1.016	1.018	1.020	1.022	1.033	1.013	1.025	1.009	.955	.946			
1970-71	1964	40,537	1.064	43,126	42,573	43,861	44,224	44,480	43,625	43,335	42,872	42,255	41,039	38,456	34,570	.923	31,910
				1.007	1.030	1.032	1.031	1.037	1.045	1.025	1.036	1.020	.974	.934			
1971-72	1965	36,851	1.133	41,745	43,431	43,857	45,247	45,608	46,110	45,582	44,422	44,426	43,120	39,992	35,916	.931	33,454
				1.001	1.014	1.026	1.025	1.034	1.035	1.015	1.026	1.020	.958	.913			
1972-73	1966	34,899	1.142	39,856	41,787	44,036	44,979	46,368	47,141	47,709	46,280	45,580	45,299	41,309	36,519	.913	33,358
				.982	1.002	1.006	1.006	1.009	1.015	.996	1.016	1.003	.932	.902			
1973-74	1967	35,166	1.135	39,917	39,124	41,885	44,318	45,245	46,764	47,831	47,512	47,035	45,698	42,197	37,242	.922	34,353
				.982	1.002	.998	1.000	1.012	1.017	1.001	1.008	.995	.934	.904			
1974-75	1968	36,842	1.092	40,225	39,192	39,188	41,787	44,316	45,807	47,552	47,901	47,889	46,794	42,680	38,162	.916	34,963
				.981	.996	.991	1.000	1.006	1.015	.993	.999	1.003	.950	.926			
1975-76	1969	39,189	1.073	42,067	39,476	39,052	38,854	41,773	44,572	46,489	47,440	47,872	48,056	44,459	39,508	.900	35,555
				.982	.993	1.000	1.004	1.006	1.022	.999	1.017	1.010	.945	.907			
1976-77	1970	41,480	1.050	43,549	41,296	39,208	39,065	39,005	42,012	45,541	46,447	48,035	48,365	45,433	40,345	.908	36,647
				.994	1.002	1.008	1.008	1.007	1.022	.998	1.010	1.011	.947	.916			
1977-78	1971	40,360	1.078	43,500	43,296	41,380	39,528	39,178	39,282	42,947	45,446	46,902	48,586	45,793	41,596	.898	37,373
				.998	1.014	1.011	1.022	1.014	1.033	1.015	1.024	1.005	.927	.894			
1978-79	1972	38,585	1.046	40,378	43,421	43,885	41,826	40,393	39,926	40,560	43,595	46,518	47,151	45,020	40,951		

* Enrollments are estimates in which "ungraded" enrollments were distributed to individual grades on the basis of detailed analysis of school district enrollment reports.

COLORADO - PROJECTIONS OF ENROLLMENTS BY GRADE AND HIGH SCHOOL GRADUATES - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads / 12th Grade	Grads
1978-79 (Act)	1972	38,585	1.046	40,378	43,421	43,885	41,826	40,393	39,926	40,560	43,595	46,518	47,151	45,020	40,951	.910	37,265 (Proj.)
Progression Ratios					.990	1.002	1.006	1.010	1.008	1.025	1.000	1.015	1.005	.940	.910		
1979-80	1973	38,507	1.080	40,432	39,974	43,508	44,148	42,244	40,716	40,924	40,560	44,249	46,751	44,322	40,968	.910	37,281
1980-81	1974	39,036	1.050	40,988	40,028	40,054	43,769	44,589	42,582	41,734	40,924	41,168	44,470	43,946	40,333	.910	36,703
1981-82	1975	40,148	1.050	42,155	40,578	40,108	40,294	44,207	44,926	43,647	41,734	41,538	41,374	41,802	39,991	"	36,392
1982-83	1976	40,978	1.050	43,027	41,733	40,659	40,349	40,697	44,561	46,070	43,647	42,360	41,746	38,892	38,040	"	34,616
1983-84	1977	43,056	1.050	45,209	42,597	41,816	40,903	40,752	41,023	45,675	46,070	44,302	42,572	39,241	35,392	"	32,207
1984-85					44,757	42,682	42,067	41,312	41,078	42,049	45,675	46,761	44,524	40,018	35,709	.910	32,495
1985-86						44,847	42,938	42,488	41,642	42,105	42,049	46,360	46,995	41,853	36,416	"	33,139
1986-87							45,116	43,367	42,828	42,683	42,105	42,680	46,592	44,175	38,086	"	34,658
1987-88								45,567	43,714	43,899	42,683	42,737	42,893	43,796	40,199	"	36,581
1988-89									45,932	44,807	43,899	43,323	42,951	40,319	39,854	.910	36,267
1989-90										47,080	44,807	44,557	43,540	40,374	36,690	"	33,388
1990-91											47,080	45,479	44,780	40,928	36,740	"	33,433
1991-92												47,786	45,706	42,093	37,244	"	33,892
1992-93													48,025	42,964	38,305	"	34,858
1993-94														45,144	39,097	"	35,578
1994-95															41,081	.910	37,384

Hawaii

The enrollment data for 1965-66 through 1968-69 are those reported by the National Center for Education Statistics. These appear consistent with those for the later years, whereas the figures supplied by Hawaii were for a different date in the fall and, therefore, are inconsistent with the later years.

The births of military dependents are excluded from the birth figures. The ratio of first grade to births is high, reflecting the inclusion of military dependents in first-grade enrollments. Turnover of military personnel presumably accounts for the low grade-to-grade ratios in the elementary grades.

Enrollments in nonpublic schools, which are not included in the data of this report, are about 20 percent as large as the enrollments in public schools at each grade level.

The Department of Education makes six-year projections of elementary and secondary enrollments. For 1984-85, the last year of its projections, its figures are somewhat larger than WICHE's in the secondary grades and somewhat smaller in the elementary grades.

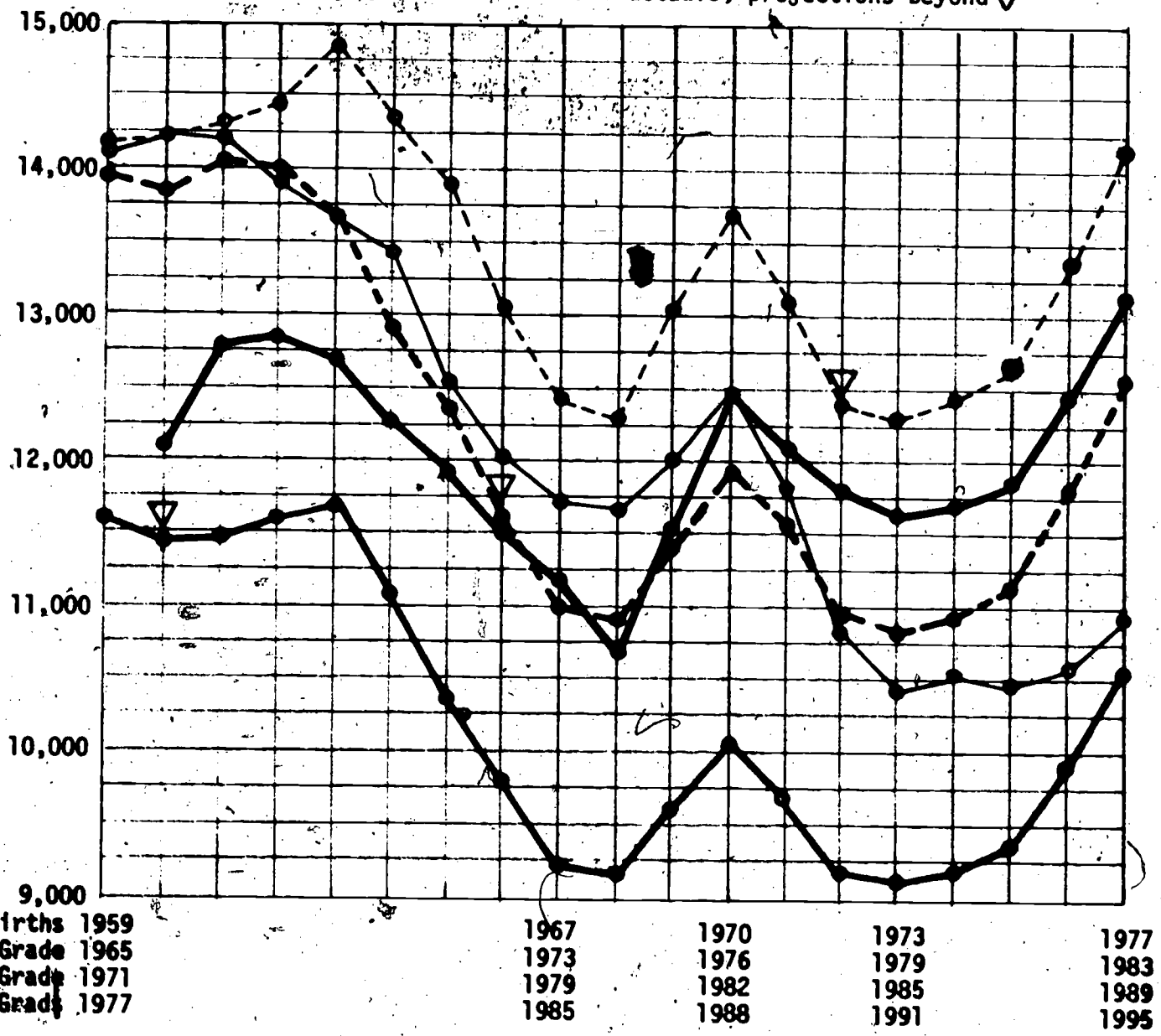
MEASURE OF MIGRATION - GRADES 2-6

Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference	Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference
1966	53,619	53,492	- 127	1976	49,857	48,630	-1,227
1967	54,426	54,003	- 423	1977	48,716	47,499	-1,217
1968	54,457	54,665	+ 208	1978	48,794	48,026	- 768
						Projected	
1969	54,511	56,591	+2,080	1979	49,568	48,610	- 958
1970	57,719	57,580	- 139	1980	49,518	48,564	- 954
1971	58,389	58,821	+ 432	1981	48,868	47,929	- 939
1972	59,220	58,359	- 861	1982	47,837	46,916	- 921
1973	57,727	56,646	-1,081	1983	47,431	46,516	- 915
1974	55,059	54,284	- 775	1984	48,404	47,470	- 934
1975	52,234	51,080	-1,154	1985	50,251	49,281	- 970

HIGH SCHOOL RETENTION - GRADE 10 TO GRADUATES

Period	Average Retention Ratios: 10th Grade to 11th Grade	11th Grade to 12th Grade	12th Grade to Graduates	Three Ratios Compounded
1965-66 to 1970-71	.955	.951	.965	.876
1973-74 to 1978-79	.925	.923	.971	.829
Projections				
1979-80 to 1994-95	.920	.920	.970	.821

HAWAII COHORT GRAPH



HAWAII - BIRTHS, ENROLLMENTS BY GRADE, AND HIGH SCHOOL GRADUATES

SHOWING PROGRESSION RATIOS - PUBLIC SCHOOLS

School Year	Births* Year	Births* Number	Ratio First Grade/Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads/12th Grade	Grads
1965-66	1959	---	---	14,199	13,668	13,617	13,298	13,036	12,855	12,146	11,737	10,998	10,728	10,209	9,426	.956	9,009
				.978	.992	.995	1.009	.994	.983	.994	.997	1.009	.962	.963			
1966-67	1960	12,108	1.173	14,195	13,892	13,564	13,553	13,417	12,958	12,637	12,072	11,698	11,094	10,321	9,836	.970	9,540
				.979	.996	.988	.983	1.002	.977	1.004	.986	1.012	.959	.945			
1967-68	1961	12,759	1.119	14,272	13,896	13,840	13,398	13,423	13,442	12,658	12,685	11,908	11,833	10,641	9,754	.967	9,430
				1.003	1.010	.995	1.000	1.011	.980	1.000	.989	1.015	.953	.942			
1968-69	1962	12,835	1.125	14,443	14,312	14,029	13,766	13,404	13,466	13,168	12,656	12,549	12,091	11,280	10,024	.978	9,800
				1.026	1.016	1.011	1.028	1.022	.997	1.008	1.028	1.030	.958	.950			
1969-70	1963	12,705	1.168	14,841	14,825	14,548	14,189	14,157	13,697	13,422	13,268	13,009	12,924	11,578	10,712	.972	10,409
				1.003	1.003	.996	.998	.994	.993	.991	1.004	1.025	.945	.953			
1970-71	1964	12,264	1.170	14,346	14,879	14,865	14,485	14,160	14,070	13,595	13,300	13,320	13,340	12,218	11,039	.949	10,471
				1.017	1.013	1.005	1.009	1.003	.991	.984	1.032	1.025	.931	.940			
1971-72	1965	11,911	1.167	13,896	14,595	15,065	14,943	14,617	14,196	13,945	13,389	13,729	13,658	12,426	11,479	.974	11,185
				.992	.989	.986	.986	.986	.974	.985	1.027	.996	.935	.938			
1972-73	1966	11,498	1.134	13,043	13,784	14,346	14,859	14,738	14,416	13,821	13,731	13,742	13,669	12,773	11,651	.957	11,147
				.988	.977	.983	.984	.980	.972	.990	1.021	.995	.922	.912			
1973-74	1967	11,141	1.119	12,470	12,859	13,470	14,104	14,626	14,446	14,006	13,678	14,023	13,674	12,603	11,643	.985	11,464
				.984	.996	.988	.982	.979	.969	.984	1.029	.989	.924	.924			
1974-75	1968	10,705	1.150	12,307	12,265	12,807	13,312	13,850	14,315	13,997	13,788	14,077	13,865	12,630	11,643	.969	11,283
				.992	.989	.980	.975	.970	.953	.974	1.028	.983	.935	.931			
1975-76	1969	11,511	1.130	13,006	12,213	12,114	12,550	12,980	13,436	13,642	13,637	14,151	13,836	12,959	11,752	.960	11,284
				.983	.975	.972	.976	.979	.961	.993	1.004	.984	.936	.928			
1976-77	1970	12,462	1.099	13,695	12,788	11,905	11,770	12,253	12,702	12,915	13,549	14,105	13,926	12,953	12,027	.968	11,637
				.970	.977	.969	.975	.979	.973	.982	1.064	1.016	.922	.910			
1977-78	1971	12,107	1.083	13,108	13,287	12,492	11,539	11,475	11,992	12,361	12,684	14,415	14,328	12,841	11,792	.972	11,464
				.983	.979	.979	.992	.988	.969	.978	1.083	.986	.908	.921			
1978-79	1972	11,776	1.050	12,368	12,881	13,011	12,231	11,445	11,339	11,626	12,085	13,733	14,220	13,011	11,823		

* Excluding military dependents.

HAWAII - PROJECTIONS OF ENROLLMENTS BY GRADE AND HIGH SCHOOL GRADUATES - PUBLIC SCHOOLS

School Year	Births* Year	Births* Number	Ratio First Grade Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio: Grade 12th Grade	Grade
1978-79 (Act)	1972	11,776	1.050	12,368	12,881	13,011	12,231	11,445	11,339	11,626	12,085	13,733	14,220	13,011	11,823	.970	11,468 (Proj.)
Progression Ratios					.983	.980	.980	.980	.983	.970	.980	1.060	.985	.920	.920		
1979-80	1973	11,621	1.058	12,295	12,158	12,623	12,751	11,986	11,250	10,999	11,393	12,810	13,527	13,082	11,970	.970	11,611
1980-81	1974	11,712	1.059	12,403	12,086	11,915	12,371	12,496	11,782	10,913	10,779	12,077	12,618	12,445	12,035	"	11,674
1981-82	1975	11,876	1.065	12,648	12,192	11,844	11,677	12,124	12,284	11,429	10,696	11,426	11,896	11,609	11,449	"	11,106
1982-83	1976	12,489	1.070	13,363	12,433	11,948	11,607	11,443	11,918	11,915	11,200	11,337	11,255	10,944	10,680	"	10,360
1983-84	1977	13,152	1.080	14,204	13,136	12,184	11,709	11,375	11,248	11,560	11,677	11,872	11,167	10,355	10,068	.970	9,766
1984-85					13,963	12,873	11,940	11,475	11,182	10,911	11,329	12,378	11,694	10,274	9,527	"	9,241
1985-86						13,684	12,616	11,701	11,280	10,847	10,693	12,009	12,192	10,758	9,452	"	9,168
1986-87							13,410	12,364	11,502	10,942	10,630	11,335	11,829	11,217	9,897	"	9,600
1987-88								13,142	12,154	11,157	10,723	11,268	11,165	10,883	10,380	.970	10,010
1988-89									12,919	11,789	10,934	11,366	11,099	10,272	10,012	"	9,712
1989-90										12,531	11,553	11,590	11,196	10,211	9,450	"	9,167
1990-91											12,280	12,246	11,416	10,300	9,394	"	9,112
1991-92												13,017	12,062	10,503	9,476	.970	9,192
1992-93													12,822	11,097	9,663	"	9,373
1993-94														11,796	10,209	"	9,903
1994-95															10,852	.970	10,526

* Excluding military dependents.

Idaho

According to the cohort graph, Idaho births have shown a sharp upward trend in the last four years. In the Measure of Migration table, there is evidence of substantial, sustained in-migration since 1970. The projections assume a continuation of substantial in-migration.

An estimated 200 students graduate from nonpublic schools annually. Nonpublic schools are not included in the data of this report.

No authoritative projections generated at the state level were found.

MEASURE OF MIGRATION - GRADES 2-6

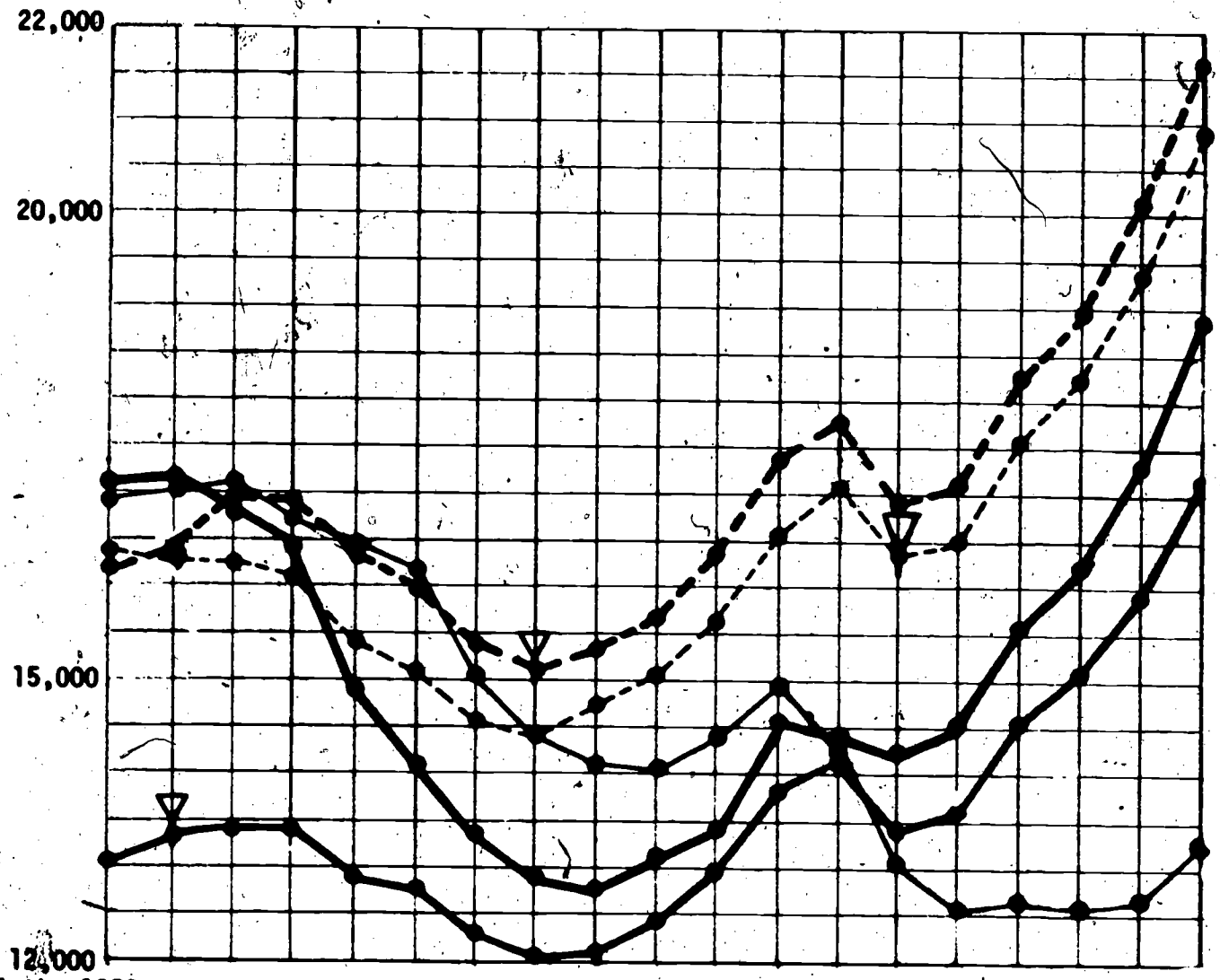
Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference	Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference
1966	60,102	59,177	- 925	1976	57,539	58,551	+1,012
1967	59,416	59,090	- 326	1977	58,826	59,540	+ 714
1968	59,712	59,770	+ 58	1978	60,931	61,635	+ 704
					Projected		
1969	60,562	60,449	- 113	1979	63,294	64,007	+ 713
1970	60,745	61,907	+1,162	1980	64,493	65,235	+ 742
1971	61,073	62,547	+1,474	1981	65,274	66,031	+ 757
1972	61,191	61,836	+ 645	1982	66,118	66,875	+ 757
1973	59,654	61,428	+1,774	1983	67,188	67,946	+ 758
1974	59,022	59,361	+ 339	1984	70,137	70,919	+ 782
1975	58,074	58,520	+ 446	1985	74,362	75,189	+ 827

HIGH SCHOOL RETENTION - GRADE 10 TO GRADUATES

Period	Average Retention Ratios: 10th Grade to 11th Grade	11th Grade to 12th Grade	12th Grade to Graduates	Three Ratios Compounded
1965-66 to 1970-71	.958	.945	.945	.856
1973-74 to 1978-79	.942	.919	.922	.798
Projections				
1979-80 to 1994-95	.943	.920	.920	.798

IDAHO COHORT GRAPH

1st grade — — — 7th grade — — — U.S. births ÷ 250 ——
ID births ═══ H.S. grads ▬▬▬ 1978 actuals; projections beyond ▽



Births 1959	1967	1970	1973	1977
1st Grade 1965	1973	1976	1979	1983
7th Grade 1971	1979	1982	1985	1989
H.S. Grads 1977	1985	1988	1991	1995

IDAHO - BIRTHS, ENROLLMENTS BY GRADE, AND HIGH SCHOOL GRADUATES

SHOWING PROGRESSION RATIOS - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade / Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grade / 12th Grade	Grads
1966-68	1959	17,188	.953	16,383	15,265	14,904	14,987	14,946	14,861	14,671	14,466	13,995	13,374	12,782	11,863	.936	11,098
				.920	.970	.991	.985	.993	1.008	.984	1.015	.970	.949	.943			
1966-67	1960	17,176	.934	16,379	15,073	14,812	14,769	14,762	14,834	14,977	14,437	14,682	13,574	12,693	12,058	.939	11,328
				.940	.987	.997	.994	1.001	1.009	.992	1.019	.979	.964	.950			
1967-68	1961	16,902	.965	16,318	15,395	14,871	14,764	14,682	14,773	14,966	14,854	14,706	14,372	13,088	12,060	.946	11,409
				.955	.966	1.008	1.003	1.008	1.022	1.006	1.019	.981	.959	.945			
1968-69	1962	16,398	.985	16,150	15,585	15,180	14,995	14,802	14,793	15,102	15,053	15,143	14,420	13,784	12,368	.949	11,741
				.942	.979	.999	1.008	1.007	1.030	1.003	1.004	.981	.953	.940			
1969-70	1963	14,968	1.024	15,321	15,207	15,254	15,168	15,116	14,911	15,241	15,140	15,118	14,848	13,746	12,963	.947	12,271
				.952	1.014	1.019	1.024	1.020	1.045	1.018	1.016	1.007	.963	.945			
1970-71	1964	14,080	1.070	15,066	14,979	15,422	15,537	15,535	15,413	15,581	15,511	15,381	15,230	14,297	12,991	.951	12,348
				.969	1.021	1.013	1.035	1.027	1.051	1.019	1.018	.981	.961	.959			
1971-72	1965	13,370	1.093	14,618	14,605	14,885	15,622	16,079	15,961	16,199	15,876	15,792	15,091	14,632	13,709	.936	12,834
				.962	1.005	1.008	1.018	1.010	1.033	1.001	1.004	.986	.961	.917			
1972-73	1966	12,978	1.112	14,429	14,062	14,679	15,009	15,904	16,244	16,486	16,216	15,942	15,565	14,509	13,413	.948	12,714
				.970	1.028	1.025	1.035	1.031	1.045	1.026	1.025	.997	.950	.940			
1973-74	1967	12,762	1.154	14,721	13,997	14,449	15,042	15,534	16,403	16,980	16,916	16,622	15,891	14,794	13,640	.937	12,776
				.968	1.005	1.016	1.002	1.000	1.035	1.004	1.001	.978	.935	.912			
1974-75	1968	13,101	1.148	15,043	14,253	14,070	14,686	15,065	15,540	16,979	17,050	16,934	16,253	14,859	13,485	.937	12,631
				.961	.994	1.005	1.005	1.025	1.048	1.008	1.003	.983	.948	.926			
1975-76	1969	13,468	1.160	15,621	14,463	14,174	14,147	14,755	15,444	16,293	17,120	17,105	16,650	15,403	13,755	.897	12,344
				.976	1.015	1.018	1.023	1.015	1.035	1.010	1.007	.984	.943	.919			
1976-77	1970	14,540	1.142	16,608	15,246	14,678	14,434	14,468	14,971	15,990	16,458	17,248	16,834	15,699	14,159	.920	13,029
				.973	.999	1.011	1.018	1.021	1.029	1.008	1.003	.978	.943	.920			
1977-78	1971	14,387	1.189	17,099	16,158	15,232	14,845	14,696	14,767	15,401	16,115	16,509	16,868	15,879	14,441	.921	13,301
				.972	1.003	1.014	1.012	1.018	1.025	1.013	1.013	.976	.940	.917			
1978-79	1972	14,250	1.144	16,304	16,614	16,200	15,452	15,028	14,955	15,134	15,603	16,327	16,108	15,858	14,556		

IDAHO - PROJECTIONS OF ENROLLMENTS BY GRADE AND HIGH SCHOOL GRADUATES - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grade 12th Grade	Grade
1978-79 (Act)	1972	14,250	1.144	16,304	16,614	16,200	15,452	15,028	14,955	15,134	15,603	16,327	16,108	15,858	14,556	.920	13,392 (Proj.)
Progression Ratios					.970	1.000	1.013	1.013	1.020	1.025	1.010	1.005	.980	.943	.920		
1979-80	1973	14,507	1.137	16,500	15,815	16,614	16,411	15,653	15,329	15,329	15,285	15,681	16,000	15,190	14,589	.920	13,422
1980-81	1974	15,570	1.128	17,570	16,005	15,815	16,830	16,624	15,966	15,712	15,482	15,361	15,367	15,088	13,975	.920	12,857
1981-82	1975	16,242	1.124	18,250	17,043	16,005	16,021	17,049	16,956	16,365	15,869	15,559	15,054	14,491	13,881	"	12,771
1982-83	1976	17,322	1.116	19,325	17,703	17,043	16,213	16,229	17,390	17,380	16,529	15,948	15,248	14,196	13,332	"	12,265
1983-84	1977	18,813	1.107	20,820	18,745	17,703	17,265	16,424	16,554	17,825	17,554	16,612	15,629	14,379	13,060	"	12,015
1984-85					20,195	18,745	17,933	17,489	16,752	16,968	18,003	17,642	16,280	14,738	13,229	.920	12,171
1985-86						20,195	18,989	18,166	17,839	17,171	17,138	18,093	17,289	15,352	13,559	"	12,474
1986-87							20,458	19,236	18,529	18,285	17,343	17,224	17,731	16,304	14,124	"	12,994
1987-88								20,728	19,621	18,992	18,468	17,430	16,880	16,720	15,000	"	13,800
1988-89									21,138	20,112	19,182	18,560	17,081	15,918	15,382	.920	14,151
1989-90										21,666	20,313	19,278	18,189	16,107	14,645	"	13,473
1990-91											21,883	20,415	18,892	17,152	14,818	"	13,633
1991-92												21,992	20,007	17,815	15,780	.920	14,518
1992-93													21,552	18,867	16,390	"	15,079
1993-94														20,324	17,358	"	15,969
1994-95															18,698	.920	17,202

Montana

The analytical tables and graph on this and the following page suggest that Montana had substantial out-migration in the 1960s through about 1966 or 1967, followed by a relatively stable situation. There is some indication of modest in-migration in the last few years.

There are about 400 graduates of nonpublic schools annually. Nonpublic schools are not reflected in the data of this report.

The most recent projections of high school graduates generated at the state level were done by the office of the Commissioner of Higher Education. The latest year of actual enrollments used as the basis of its projections was 1976-77, and it projected to 1984-85. Three alternate series were presented, and the medium series shows numbers of graduates quite similar to those in this report.

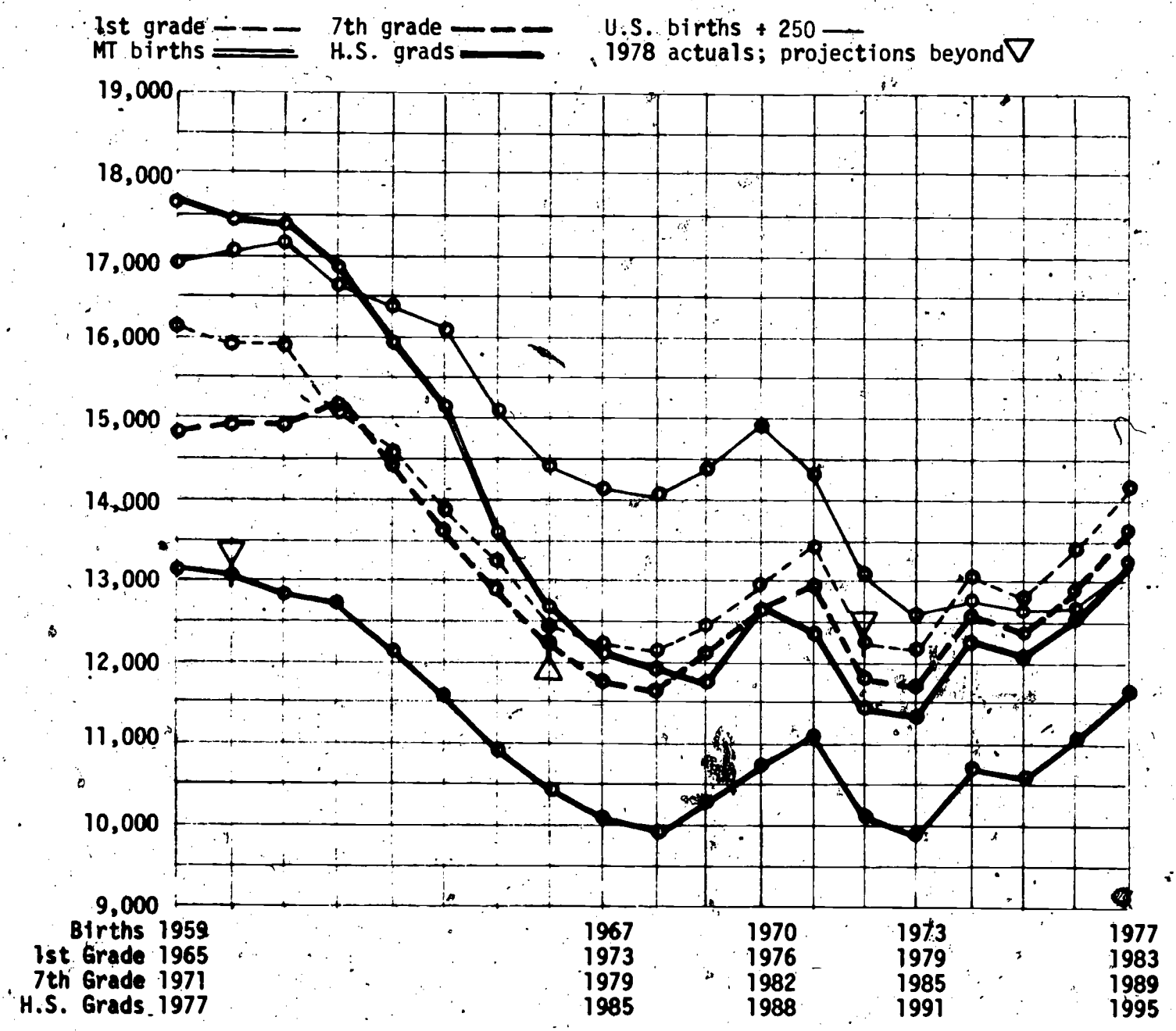
MEASURE OF MIGRATION - GRADES 2-6

Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference	Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference
1966	57,876	56,643	-1,233	1976	47,767	47,862	+ 95
1967	57,985	57,704	- 281	1977	47,049	47,528	+ 479
1968	58,741	57,623	-1,118	1978	47,884	47,516	- 368
				Projected			
1969	58,093	58,241	+ 148	1979	48,626	48,616	- 10
1970	58,670	58,755	+ 85	1980	48,719	48,724	+ 5
1971	58,169	58,245	+ 76	1981	48,296	48,305	+ 9
1972	57,161	57,270	+ 109	1982	48,303	48,300	- 3
1973	55,269	55,358	+ 89	1983	47,758	47,750	- 8
1974	52,397	52,523	+ 126	1984	48,884	48,876	- 8
1975	49,978	49,674	- 304	1985	50,822	50,810	- 12

HIGH SCHOOL RETENTION - GRADE 10 TO GRADUATES

Period	Average Retention Ratios: 10th Grade to 11th Grade	11th Grade to 12th Grade	12th Grade to Graduates	Three Ratios Compounded
1965-66 to 1970-71	.959	.946	.951	.863
1973-74 to 1978-79	.942	.929	.951	.832
Projections				
1979-80 to 1994-95	.940	.925	.943	.820

MONTANA COHORT GRAPH



MONTANA - BIRTHS, ENROLLMENTS BY GRADE, AND HIGH SCHOOL GRADUATES

SHOWING PROGRESSION RATIOS - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade / Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads / 12th Grade	Grads
1965-66	1959	17,646	.914	16,120	14,842	14,822	14,296	13,916	13,875	13,705	13,355	12,966	12,268	11,564	10,633	.940	9,992
				.935	.965	.986	.978	.987	1.001	.985	1.015	.964	.953	.939			
1966-67	1960	17,448	.909	15,858	15,073	14,321	14,610	13,981	13,731	13,882	13,503	13,553	12,495	11,695	10,857	.949	10,308
				.947	.984	1.001	.996	.999	1.025	.994	1.015	.974	.963	.951			
1967-68	1961	17,368	.916	15,904	15,010	14,839	14,335	14,557	13,973	14,068	13,798	13,703	13,203	12,027	11,122	.948	10,542
				.928	.972	.983	.988	.981	1.003	.978	1.007	.981	.964	.950			
1968-69	1962	16,818	.893	15,022	14,754	14,595	14,586	14,158	14,284	14,010	13,764	13,897	13,441	12,724	11,424	.948	10,834
				.984	.986	1.003	1.007	1.014	1.019	1.002	1.021	.975	.953	.935			
1969-70	1963	15,934	.919	14,638	14,788	14,554	14,633	14,695	14,359	14,551	14,042	14,055	13,546	12,806	11,892	.969	11,520
				.964	.996	1.008	1.000	1.000	1.022	1.003	1.018	.983	.961	.953			
1970-71	1964	15,094	.915	13,812	14,115	14,750	14,676	14,628	14,701	14,681	14,600	14,291	13,819	13,018	12,205	.881	10,751
				.979	1.006	1.004	.998	.999	1.005	.988	.975	.983	.951	.943			
1971-72	1965	13,641	.973	13,267	13,528	14,196	14,785	14,652	14,812	14,778	14,510	14,228	14,055	13,138	12,274	.889	10,912
				.961	.991	.999	1.010	1.007	1.019	1.002	1.012	1.016	.945	.936			
1972-73	1966	12,623	.986	12,446	12,753	13,409	14,181	14,926	14,754	14,886	14,812	14,689	14,452	13,284	12,296	.963	11,841
				.965	.999	1.000	1.004	1.003	1.008	1.008	1.016	.992	.950	.952			
1973-74	1967	12,087	1.004	12,134	12,006	12,738	13,415	14,238	14,967	14,872	15,009	15,052	14,577	13,728	12,650	.959	12,135
				.971	.994	1.001	1.007	1.006	1.008	1.005	1.011	.984	.936	.927			
1974-75	1968	11,992	1.010	12,112	11,778	11,933	12,756	13,511	14,323	15,088	14,947	15,176	14,813	13,649	12,730	.966	12,293
				.959	.988	.995	.991	1.001	1.005	.993	.997	.976	.944	.938			
1975-76	1969	11,762	1.060	12,469	11,611	11,639	11,873	12,644	13,518	14,396	14,976	14,896	14,814	13,981	12,804	.948	12,136
				.958	.989	1.004	1.004	1.009	1.009	.993	1.004	.988	.950	.935			
1976-77	1970	12,622	1.025	12,939	11,951	11,489	11,683	11,926	12,764	13,640	14,296	15,041	14,710	14,068	13,077	.943	12,328
				.967	1.003	1.013	1.005	1.019	1.009	1.001	1.006	.985	.947	.925			
1977-78	1971	12,347	1.093	13,499	12,510	11,991	11,643	11,740	12,154	12,873	13,657	14,384	14,813	13,931	13,010	.937	12,184
				.950	.989	.992	.991	.998	1.087	.991	.994	.973	.931	.918			
1978-79	1972	11,444	1.064	12,181	12,825	12,367	11,901	11,533	11,715	12,244	12,756	13,581	14,001	13,796	12,795		

MONTANA - PROJECTIONS OF ENROLLMENTS BY GRADE AND HIGH SCHOOL GRADUATES - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade/Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads/12th Grade	Grads
1978-79 (Act)	1972	11,444	1.064	12,181	12,825	12,367	11,901	11,533	11,715	12,244	12,756	[illegible]	14,001	13,796	12,795	.943	12,066 (Proj.)
Progression Ratios					.960	.990	1.000	1.005	1.005	1.008	1.000	[illegible]	.982	.925			
1979-80	1973	11,392	1.060	12,076	11,694	12,697	12,367	11,961	11,591	11,809	12,244	12,756	13,337	13,161	12,761	.943	12,034
1980-81	1974	11,273	1.060	13,009	11,593	11,577	12,697	12,429	12,021	11,684	11,809	12,244	[illegible]	12,537	12,174	.943	11,480
1981-82	1975	12,070	1.060	12,794	12,489	11,477	11,577	12,760	12,491	12,117	11,684	[illegible]	12,024	11,774	11,597	"	10,936
1982-83	1976	12,605	1.060	13,361	12,282	12,364	11,477	11,635	12,824	12,591	12,117	[illegible]	[illegible]	11,303	10,891	"	10,270
1983-84	1977	13,304	1.060	14,102	12,827	12,159	12,364	11,534	11,693	12,927	12,591	12,117	[illegible]	10,900	10,455	"	9,[illegible]
1984-85					13,538	12,699	12,159	[illegible]	11,592	11,787	12,927	12,591	[illegible]	10,786	10,083	.943	9,508
1985-86						13,403	12,699	12,220	12,488	11,685	11,787	12,927	[illegible]	11,185	9,977	"	9,408
1986-87							13,403	[illegible]	12,281	12,588	11,685	[illegible]	12,694	11,622	10,346	"	9,756
1987-88								[illegible]	12,826	12,379	12,588	[illegible]	11,575	11,932	10,750	"	10,137
1988-89									13,537	12,929	12,379	[illegible]	11,475	10,881	11,037	.943	10,408
1989-90										13,645	[illegible]	12,379	12,361	10,787	10,065	"	9,491
1990-91											13,[illegible]	12,929	12,156	11,619	9,978	"	9,409
1991-92												13,645	12,696	11,427	10,748	"	10,135
1992-93													13,399	11,934	10,570	.943	9,968
1993-94														12,595	11,039	"	10,410
1994-95															11,650	.943	10,986

Nevada

The cohort graph on the next page shows a quite volatile pattern of births compared to the national pattern. Comparison of the first-grade line to the Nevada birth line also indicates a volatile picture. Migration is clearly responsible for this. Nevertheless, the basic pattern of down-up-down-up shown by national births remains in the projection of Nevada graduates.

Annual graduates of nonpublic schools number about 250-270 in recent years, about 3 percent of the number of public-school graduates.

No authoritative projections generated at the state level were identified.

MEASURE OF MIGRATION - GRADES 2-6

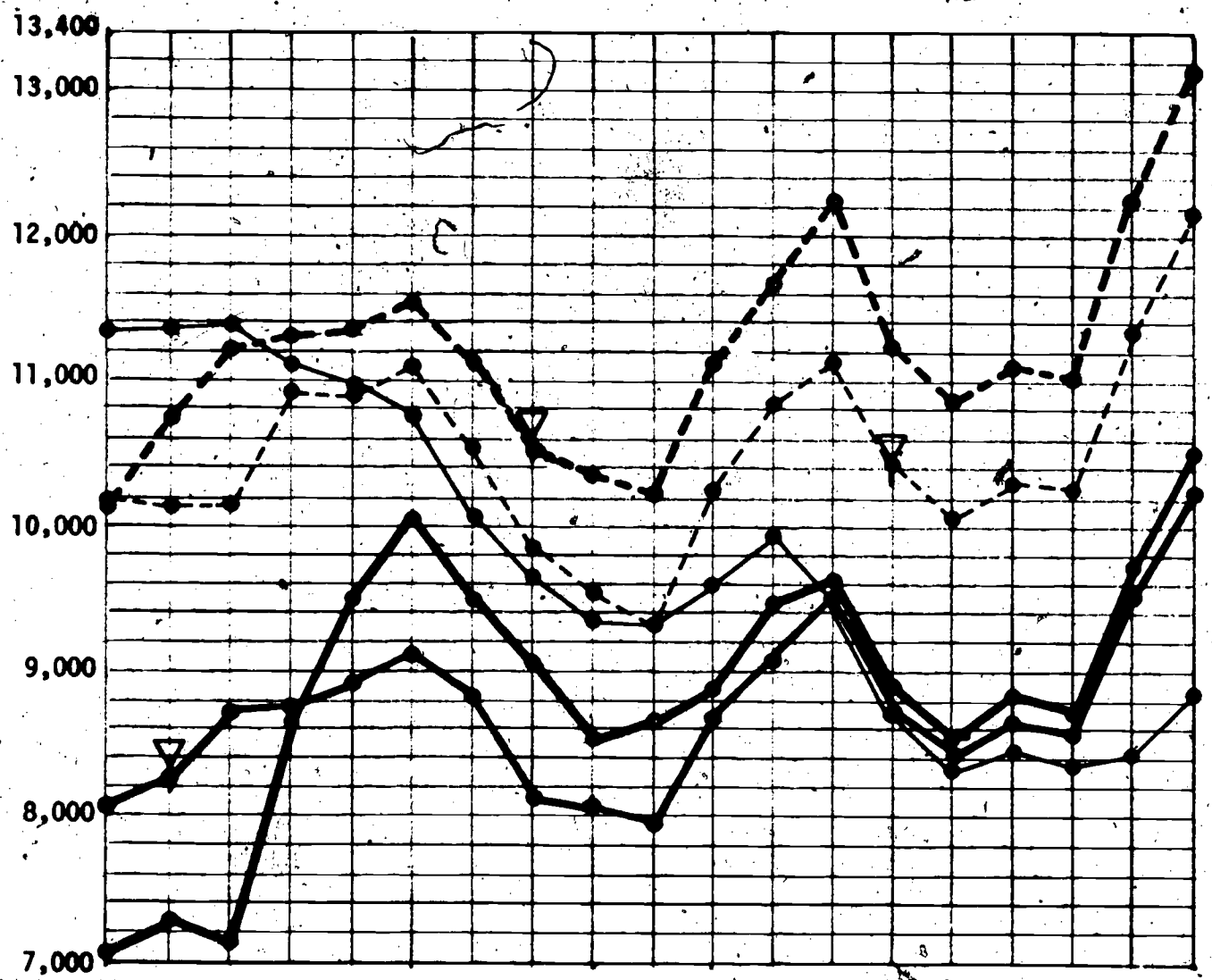
Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference	Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference
1966	36,064	35,125	- 939	1976	38,890	38,939	+ 49
1967	36,289	36,104	- 185	1977	38,248	38,951	+ 703
1968	37,085	37,901	+ 816	1978	39,652	40,468	+ 816
				Projected			
1969	38,816	39,472	+ 656	1979	41,642	42,193	+ 551
1970	40,376	40,984	+ 608	1980	42,586	43,155	+ 569
1971	41,589	42,230	+ 641	1981	42,337	42,904	+ 567
1972	42,649	42,343	- 306	1982	41,830	42,381	+ 551
1973	42,648	43,176	+ 528	1983	40,741	41,279	+ 538
1974	42,043	42,203	+ 160	1984	41,646	42,194	+ 548
1975	40,729	40,944	+ 215	1985	43,782	44,354	+ 572

HIGH SCHOOL RETENTION - GRADE 10 TO GRADUATES

Period	Average Retention Ratios: 10th Grade to 11th Grade	11th Grade to 12th Grade	12th Grade to Graduates	Three Ratios Compounded
1965-66 to 1970-71	.938	.918	.875	.753
1973-74 to 1978-79	.959	.897	.856	.736
Projections				
1979-80 to 1994-95	.958	.900	.857	.739

NEVADA COHORT GRAPH

1st grade — — — 7th grade — — — U.S. births ÷ 375 ——
NV births ═══ H.S. grads ——— 1978 actuals: projections beyond ▽



Births 1959	1967	1970	1973	1977
1st Grade 1965	1973	1976	1979	1983
7th Grade 1971	1979	1982	1985	1989
H.S. Grads 1977	1985	1988	1991	1995

NEVADA - BIRTHS, ENROLLMENTS BY GRADE, AND HIGH SCHOOL GRADUATES

SHOWING PROGRESSION RATIOS - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade/Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads/12th Grade	Grads
1965-66	1959	7,052	1.445	10,187	9,535	9,190	8,860	8,479	8,128	7,941	7,562	7,215	6,834	6,288	5,284	.874	4,620
					.932	.955	.980	.980	.983	1.003	.973	.97	.989	.884	.889		
1966-67	1960	7,278	1.397	10,165	9,496	9,104	9,005	8,684	8,332	8,152	7,726	7,397	7,137	6,044	5,590	.892	4,984
					.951	.977	.996	1.007	1.001	1.023	.986	1.012	1.012	.917	.948		
1967-68	1961	7,110	1.430	10,167	9,671	9,281	9,064	9,069	8,690	8,524	8,040	7,821	7,483	6,546	5,727	.847	4,853
					1.004	1.012	1.025	1.027	1.025	1.048	1.018	1.030	1.033	.965	.945		
1968-69	1962	8,640	1.264	10,921	10,212	9,787	9,509	9,308	9,297	9,107	8,677	8,279	8,078	7,218	6,183	.868	5,369
					.955	1.015	1.015	1.015	1.024	1.026	1.019	1.028	1.030	.967	.909		
1969-70	1963	9,496	1.148	10,899	10,431	10,363	9,933	9,649	9,527	9,543	9,277	8,920	8,526	7,811	6,559	.831	5,449
					.958	1.006	1.020	1.015	1.019	1.039	1.019	1.016	1.007	.954	.899		
1970-71	1964	10,038	1.106	11,107	10,438	10,498	10,570	10,083	9,833	9,812	9,725	9,430	8,986	8,131	7,025	.840	5,899
					.962	1.009	1.015	1.019	1.018	1.035	1.016	1.004	1.014	.950	.902		
1971-72	1965	9,468	1.117	10,578	10,685	10,534	10,659	10,771	10,266	10,181	9,966	9,764	9,560	8,533	7,333	.846	6,206
					.983	1.006	1.013	1.016	.937	1.047	1.014	1.023	1.009	.964	.911		
1972-73	1966	9,052	1.086	9,832	10,400	10,748	10,670	10,830	10,095	10,750	10,324	10,197	9,849	9,218	7,772	.825	6,414
					.983	1.011	1.020	1.022	.997	1.111	1.017	1.064	1.003	.971	.901		
1973-74	1967	8,957	1.119	9,574	9,663	10,516	10,961	10,903	10,796	11,214	10,932	10,989	10,232	9,566	8,302	.843	7,001
					.981	.998	1.010	1.010	.996	1.050	1.025	1.034	.974	.944	.882		
1974-75	1968	8,672	1.076	9,334	9,389	9,644	10,622	11,074	10,863	11,339	11,493	11,304	10,703	9,661	8,432	.863	7,284
					.974	1.000	1.011	1.004	1.007	1.045	1.021	1.020	.990	.973	.913		
1975-76	1969	8,908	1.152	10,266	9,992	9,388	9,746	10,664	11,146	11,349	11,575	11,720	11,192	10,409	8,816	.858	7,566
					.971	1.001	1.006	.999	1.000	1.038	1.013	1.024	1.006	.964	.896		
1976-77	1970	9,462	1.144	10,828	9,970	9,102	9,441	9,735	10,661	11,575	11,496	11,852	11,790	10,787	9,326	.859	8,011
					.973	1.014	1.024	1.025	1.011	1.048	1.005	1.038	1.011	.964	.893		
1977-78	1971	9,608	1.165	11,194	10,540	10,110	9,324	9,678	9,839	11,168	11,629	11,932	11,982	11,368	9,633	.855	8,233
					.987	1.010	1.017	1.036	1.020	1.062	1.057	1.056	1.013	.952	.899		
1978-79	1972	8,879	1.172	10,409	11,050	10,648	10,285	9,659	9,876	10,452	11,586	12,279	12,090	11,402	10,225		

NEVADA - PROJECTIONS OF ENROLLMENTS BY GRADE AND HIGH SCHOOL GRADUATES - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade / Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads / 12th Grade	Grads
1978-79 (Act)	1972	8,879	1.172	10,409	11,050	10,648	10,285	9,659	9,876	10,482	11,586	12,279	12,090	11,402	10,225	.857	8,763 (Proj.)
Progression Ratios					.975	1.008	1.015	1.020	1.010	1.050	1.020	1.025	1.005	.958	.900		
1979-80	1973	8,534	1.175	10,029	10,149	11,138	10,808	10,491	9,756	10,370	10,661	11,876	12,340	11,582	10,262	.857	8,795
1980-81	1974	8,819	1.170	10,318	9,778	10,230	11,305	11,024	10,596	10,244	10,577	10,928	11,935	11,822	10,424	"	8,933
1981-82	1975	8,772	1.170	10,263	10,060	9,856	10,383	11,531	11,134	11,126	10,449	10,841	10,983	11,634	10,640	"	9,118
1982-83	1976	9,741	1.165	11,348	10,006	10,140	10,004	10,591	11,646	11,691	11,349	10,710	10,895	10,522	10,291	"	8,819
1983-84	1977	10,516	1.160	12,199	11,064	10,086	10,292	10,204	10,697	12,228	11,925	11,633	10,764	10,437	9,470	.857	8,116
1984-85					11,894	11,153	10,237	10,498	10,306	11,232	12,473	12,223	11,691	10,312	9,793	"	8,050
1985-86						11,989	11,320	10,442	10,603	10,821	11,457	12,785	12,284	11,200	9,281	"	7,954
1986-87							12,169	11,546	10,546	11,133	11,037	11,743	12,849	11,768	10,080	"	8,639
1987-88								12,412	11,661	11,073	11,356	11,313	11,802	12,309	10,591	.857	9,076
1988-89									12,516	12,244	11,294	11,640	11,370	11,306	11,078	"	9,494
1989-90										13,163	12,489	11,576	11,698	10,892	10,175	"	8,720
1990-91											13,426	12,801	11,634	11,207	9,803	"	8,401
1991-92												13,762	12,865	11,145	10,086	.857	8,644
1992-93													13,831	12,325	10,031	"	8,597
1993-94														13,250	11,093	"	9,507
1994-95															11,935	.857	10,220

New Mexico

As shown in the cohort graph on the following page, first-grade enrollments do not show an upturn from 1974 to 1977 even though the birth numbers for those cohorts do reflect the usual upturn. Another notable feature of the New Mexico picture is the large gap between first-grade and seventh-grade lines at the left side of the graph, suggesting substantial out-migration in the late 1960s.

Approximately 1,000 students graduate annually from the nonpublic schools and state special schools. Data on these schools are not reflected in this report.

No recent authoritative projections generated at the state level are available.

MEASURE OF MIGRATION - GRADES 2-6

Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference	Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference
1966	94,297	91,512	-2,785	1976	81,365	81,197	- 168
1967	94,143	90,901	-3,242	1977	78,~~945~~	78,809	- 136
1968	93,878	92,748	-1,130	1978	78,234	78,643	+ 409
					Projected		
1969	94,766	94,102	- 664	1979	78,208	78,364	+ 156
1970	95,478	95,670	+ 192	1980	78,287	78,444	+ 157
1971	95,677	95,968	+ 291	1981	77,685	77,846	+ 161
1972	94,808	95,396	+ 588	1982	77,382	77,538	+ 156
1973	92,258	92,529	+ 271	1983	77,024	77,178	+ 154
1974	88,154	88,429	+ 275	1984	77,793	77,942	+ 149
1975	84,268	85,081	+ 813*	1985	79,840	79,988	+ 148

* Between 1974 and 1975, the statistics used changed from average daily membership (ADM) for the first 20 days of the school year to ADM for the first 40 days. A portion of this increase is due to that change.

HIGH SCHOOL RETENTION - GRADE 10 TO GRADUATES

Period	Average Retention Ratios: 10th Grade to 11th Grade	11th Grade to 12th Grade	12th Grade to Graduates	Three Ratios Compounded
1965-66 to 1970-71	.928	.910	.912	.770
1973-74 to 1978-79	.907	.900	.926*	.756
Projections				
1979-80 to 1994-95	.910	.903	.915	.752

* Excludes the 1974-75 ratio which appears erroneous.

NEW MEXICO COHORT GRAPH

1st grade — — — 7th grade — · — · — U.S. births + 140
NM births ═══ H.S. grads ▬▬▬ 1978 actuals; projections beyond ▽

Births 1959	1967	1970	1973	1977
1st Grade 1965	1973	1976	1979	1983
7th Grade 1971	1979	1982	1985	1989
H.S. Grads 1977	1985	1988	1991	1995

NEW MEXICO - BIRTHS, ENROLLMENTS BY GRADE, AND HIGH SCHOOL GRADUATES

SHOWING PROGRESSION RATIOS - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads / 12th Grade	Grads
1965-66	1959	30,186	.977	29,487	24,631	24,094	23,047	22,525	22,311	22,052	20,761	20,220	18,835	17,356	15,406	.905	13,949
				.834	.957	.975	.976	.974	.996	.972	1.009	.977	.927	.907			
1966-67	1960	30,747	.961	29,553	24,578	23,576	23,496	22,493	21,947	22,230	21,431	20,942	19,749	17,452	15,733	.890	14,005
				.832	.952	.964	.971	.977	.999	.972	1.008	.973	.920	.913			
1967-68	1961	30,009	.946	28,190	24,948	23,389	22,724	22,817	21,971	21,931	21,603	21,608	20,381	18,178	15,929	.916	14,585
				.872	.967	.994	.997	.997	1.019	.987	1.024	.974	.932	.914			
1968-69	1962	29,226	.934	27,309	24,761	24,119	23,240	22,646	22,743	22,391	21,642	22,119	21,042	19,002	16,605	.930	15,438
				.845	.979	.988	1.000	1.006	1.017	.990	1.034	.980	.933	.907			
1969-70	1963	27,820	.943	26,245	24,160	24,249	23,832	23,237	22,784	23,124	22,159	22,377	21,684	19,626	17,244	.920	15,858
				.869	.988	1.001	1.007	1.012	1.021	.996	1.027	.986	.928	.909			
1970-71	1964	26,862	.939	25,226	23,533	23,863	24,282	23,999	23,526	23,264	23,027	22,763	22,061	20,111	17,843	.911	16,261
				.916	.997	1.000	1.004	1.011	1.015	.997	1.020	.981	.928	.913			
1971-72	1965	24,231	.952	23,077	23,113	23,451	23,872	24,372	24,273	23,869	23,185	23,493	22,322	20,465	18,353	.916	16,819
				.935	.997	1.005	1.009	1.014	1.015	1.000	1.014	1.002	.927	.906			
1972-73	1966	22,163	.961	21,486	21,572	23,040	23,559	24,087	24,710	24,649	23,873	23,504	23,545	20,698	18,534	.931	17,248
				.935	.991	.999	1.005	1.016	1.019	.997	1.022	.992	.906	.893			
1973-74	1967	21,234	.989	20,993	20,092	21,376	23,014	23,972	24,467	25,187	24,571	24,406	23,316	21,327	18,492	.939	17,364
				.938	.998	1.000	1.005	1.008	1.024	.999	1.019	.985	.901	.880			
1974-75	1968	20,346	1.015	20,654	19,695	20,052	21,384	23,137	23,856	25,045	25,156	25,040	24,038	20,998	18,775	.982	18,438
				.951	1.008	1.006	1.015	1.010	1.036	.988	1.016	.983	.904	.909			
1975-76	1969	21,543	.950	20,457	19,642	19,843	20,170	21,710	23,358	24,711	24,748	25,547	24,614	21,738	19,091	.935	17,841
				.954	.994	.995	.999	1.003	1.023	.984	1.022	.981	.912	.903			
1976-77	1970	22,004	.927	20,408	19,525	19,515	19,748	20,157	21,777	23,889	24,324	25,289	25,066	22,444	19,628	.916	17,988
				.964	.992	.991	1.005	1.005	1.026	.990	1.025	.974	.912	.901			
1977-78	1971	22,205	.891	19,785	19,677	19,374	19,338	19,845	20,252	22,348	23,647	24,921	24,618	22,871	20,214	.912	18,444
				.990	1.001	1.009	1.003	1.009	1.033	.997	1.038	.966	.908	.905			
1978-79	1972	20,813	.984	20,482	19,580	19,688	19,541	19,399	20,015	20,915	22,273	24,543	24,069	22,361	20,702		

* Enrollments are first-20-days average daily membership (ADM) through 1974-75, and first-40-days ADM from 1975-76 forward.

NEW MEXICO - PROJECTIONS OF ENROLLMENTS BY GRADE AND HIGH SCHOOL GRADUATES - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads 12th Grade	Grads
1978-79 (Act)	1972	20,813	.984	20,482	19,580	19,688	19,541	19,399	20,015	20,915	22,273	[illegible]	24,069	23,361	20,702	.915	18,942 (Proj.)
Progression Ratios					.950	.996	1.000	1.005	1.007	1.025	.996	1.020	[illegible]	.910	.903		
1979-80	1973	20,852	.960	20,018	19,458	19,502	19,688	19,639	19,535	20,515	20,810	[illegible]	[illegible]	21,903	20,192	.915	18,476
1980-81	1974	21,339	.960	20,485	19,017	19,380	19,502	19,786	19,776	[illegible]	20,412	[illegible]	[illegible]	21,684	19,778	"	18,097
1981-82	1975	21,078	.960	20,235	19,461	18,941	19,380	19,600	[illegible]	20,270	19,923	[illegible]	[illegible]	20,053	19,563	"	17,900
1982-83	1976	22,180	.960	21,293	19,223	19,383	18,941	19,477	19,737	[illegible]	20,169	[illegible]	[illegible]	18,736	18,108	"	16,569
1983-84	1977	23,100	.960	22,176	20,228	19,146	19,383	19,036	19,613	[illegible]	20,321	[illegible]	[illegible]	[illegible]	16,919	.915	15,481
1984-85					21,067	20,147	19,146	19,480	19,169	[illegible]	20,129	[illegible]	[illegible]	[illegible]	16,594	"	15,184
1985-86						20,983	20,147	19,242	19,616	[illegible]	20,002	[illegible]	[illegible]	[illegible]	16,197	"	14,820
1986-87							20,983	20,248	19,377	[illegible]	19,550	[illegible]	19,916	[illegible]	16,398	.915	15,004
1987-88								21,088	20,390	[illegible]	20,005	[illegible]	[illegible]	[illegible]	16,624	"	15,117
1988-89									21,216	[illegible]	19,762	[illegible]	19,343	[illegible]	16,366	"	14,975
1989-90										[illegible]	20,196	[illegible]	[illegible]	[illegible]	16,262	"	14,880
1990-91											[illegible]	[illegible]	19,552	[illegible]	15,895	.915	14,544
1991-92												22,091	20,576	[illegible]	16,265	"	14,882
1992-93													[illegible]	[illegible]	16,066	"	14,700
1993-94														19,299	16,908	"	15,47[illegible]
1994-95															17,608	.915	16,1[illegible]

Oregon

Enrollments used here are fall membership figures. The Oregon Department of Education commonly reports and uses year-long membership figures that are substantially larger. It is important to keep this difference in mind. The enrollments for 1966-67 and for 1968-69 were estimated from year-long enrollment figures, using the normal relationship between fall and year-long figures.

The cohort graph on the following page shows an unusually consistent pattern among the Oregon lines. This is explained by the quite constant flow of migration, as seen in the table below.

Nonpublic school graduates number about 1,300 annually and are expected to continue at about that level.

The Department of Education projects enrollments and high school graduates for a five-year period. The Department of Higher Education extends these projections for another twenty years. When these projections generated at the state level are compared with the projections presented in this report, the state-generated projections are 400-500 higher each year through 1990 and then considerably higher than that. This latter is due to a difference in the ratios used to project first-grade enrollments from recent births.

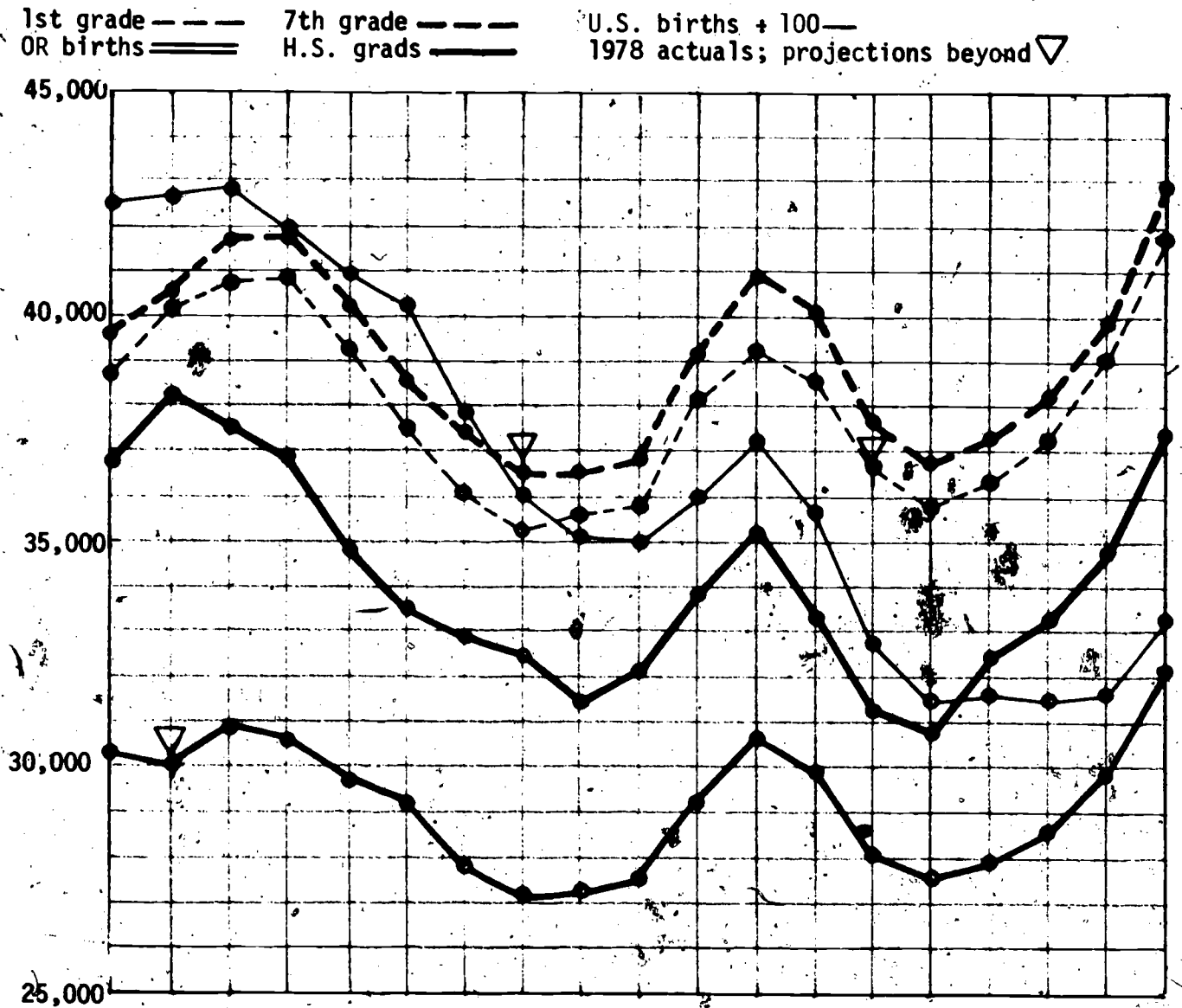
MEASURE OF MIGRATION - GRADES 2-6

Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference	Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference
1966	149,521	150,480	+ 959	1976	139,674	139,955	+ 281
1967	150,280	150,536	+ 256	1977	140,111	141,908	+1,797
1968	151,225	151,833	+ 608	1978	145,169	147,967	+2,798
						Projected	
1969	153,153	155,190	+2,037	1979	150,182	151,487	+1,305
1970	156,494	157,896	+1,402	1980	150,900	152,237	+1,337
1971	156,957	158,433	+1,476	1981	148,584	149,909	+1,325
1972	154,535	155,339	+ 804	1982	145,045	146,325	+1,280
1973	149,401	153,369	+3,968	1983	143,300	144,550	+1,250
1974	146,730	147,328	+ 598	1984	145,580	146,842	+1,262
1975	142,255	142,979	+ 724	1985	151,543	152,848	+1,305

HIGH SCHOOL RETENTION - GRADE 10 TO GRADUATES

Period	Average Retention Ratios: 10th Grade to 11th Grade	11th Grade to 12th Grade	12th Grade to Graduates	Three Ratios Compounded
1965-66 to 1970-71	.972	.939	.923	.842
1973-74 to 1978-79	.927	.890	.899	.742
Projections				
1979-80 to 1994-95	.920	.890	.900	.737

OREGON COHORT GRAPH



Births 1959		1967	1970	1973	1977
1st Grade 1965		1973	1976	1979	1983
7th Grade 1971		1979	1982	1985	1989
H.S. Grads 1977		1985	1988	1991	1995

OREGON - BIRTHS, ENROLLMENTS BY GRADE, AND HIGH SCHOOL GRADUATES

SHOWING PROGRESSION RATIOS - PUBLIC SCHOOLS

School Year	Year	Births Number	Ratio First Grade / Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads / 12th Grade	Grads
1965-66	1959	36,634	1.053	38,570	37,286	37,632	37,337	37,266	37,061	37,784	37,196	36,241	34,685	33,306	31,127	.912	28,398
					.972	1.002	1.002	1.011	1.011	1.016	1.012	1.036	.993	.975	.949		
1966-67	1960	38,347	1.048	40,199	37,474	37,857	37,719	37,730	37,674	37,661	38,250	38,538	35,974	33,812	31,601	.921	29,111
					.960	.996	.994	1.011	1.005	1.003	1.008	1.022	.991	.975	.939		
1967-68	1961	37,475	1.086	40,700	38,605	37,326	37,147	38,147	37,916	37,797	37,948	39,099	38,194	35,091	31,736	.928	29,464
					.972	1.003	1.002	1.009	1.002	1.020	1.020	1.030	1.003	.973	.937		
1968-69	1962	36,983	1.105	40,854	39,544	38,715	37,402	37,492	38,224	38,687	38,543	39,073	39,200	37,155	32,875	.929	30,537
					.967	1.004	1.010	1.021	1.019	1.030	1.015	1.034	1.004	.976	.942		
1969-70	1963	34,863	1.128	39,336	39,507	39,705	39,090	38,192	38,203	39,358	39,252	39,849	39,215	38,276	34,991	.921	32,236
					.962	1.000	1.003	1.018	1.015	1.027	1.014	1.033	1.000	.962	.926		
1970-71	1964	33,500	1.122	37,599	37,825	39,505	39,822	39,805	38,764	39,248	39,908	40,546	39,856	37,782	35,452	.924	32,757
					.968	1.005	1.006	1.014	1.012	1.020	1.011	1.031	.997	.959	.924		
1971-72	1965	32,955	1.094	36,068	36,403	38,005	39,741	40,386	40,301	39,541	39,685	41,141	40,422	38,239	34,873	.914	31,882
					.968	1.000	1.002	1.006	1.012	1.008	1.006	1.018	.978	.930	.833		
1972-73	1966	32,446	1.086	35,231	34,923	36,401	38,088	39,989	40,861	40,642	39,775	40,383	40,223	37,611	33,778	.924	31,221
					.981	1.019	1.027	1.030	1.030	1.022	1.027	1.032	1.001	.954	.903		
1973-74	1967	31,446	1.133	35,636	34,554	35,589	37,372	39,215	41,193	41,774	41,724	41,028	40,415	38,353	33,952	.907	30,806
					.967	.998	1.004	1.006	1.008	1.012	1.011	1.008	.983	.927	.884		
1974-75	1968	32,136	1.117	35,901	34,456	34,478	35,717	37,604	39,529	41,676	42,234	42,042	40,315	37,478	33,917	.904	30,668
					.963	.997	1.003	1.012	1.008	1.016	1.002	.998	.984	.935	.894		
1975-76	1969	33,834	1.125	38,059	34,588	34,347	34,592	36,147	37,893	40,179	41,774	42,146	41,378	37,691	33,522	.912	30,561
					.956	.998	1.000	1.007	1.003	1.017	.998	1.015	.994	.929	.897		
1976-77	1970	35,353	1.114	39,370	36,395	34,533	34,361	34,822	36,239	38,548	40,079	42,415	41,896	38,438	33,823	.895	30,258
					.974	1.009	1.015	1.020	1.008	1.031	1.010	1.017	.977	.924	.888		
1977-78	1971	33,344	1.159	38,648	38,396	36,728	35,037	35,048	35,095	37,356	38,940	40,744	41,445	38,725	34,144	.879	29,998
					.981	1.017	1.021	1.021	1.019	1.034	1.007	1.030	.988	.919	.885		
1978-79	1972	31,308	1.171	36,659	37,914	38,998	37,482	35,788	35,699	36,305	37,615	40,125	40,238	38,097	34,279		

* These enrollments are fall membership figures. The enrollments regularly reported and used by the Oregon Department of Education are year-long membership figures, considerably larger than the fall figures used here.

OREGON - PROJECTIONS OF ENROLLMENTS BY GRADE* AND HIGH SCHOOL GRADUATES - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grade 12th Grade	Grads
1978-79 (Act)	1972	31,308	1.171	36,659	37,914	38,998	37,482	35,788	35,699	36,305	37,615	40,125	40,238	38,097	34,279	.900	30,851
Progression Ratio					.970	1.005	1.005	1.015	1.010	1.020	1.010	1.020	.985	.920	.890		(Proj.)
1979-80	1973	30,902	1.160	35,846	35,559	[illegible]	39,193	38,044	36,146	36,413	36,668	38,367	39,523	37,019	33,906	.900	30,515
1980-81	1974	32,506	1.120	36,407	34,771	35,737	38,295	39,781	38,424	36,869	36,777	37,401	37,791	36,361	32,947	"	29,652
1981-82	1975	33,352	1.120	37,354	35,315	34,945	35,916	38,869	40,179	39,192	37,238	37,513	36,840	34,768	32,361	"	29,125
1982-83	1976	34,840	1.120	39,021	36,233	35,492	35,120	36,455	39,258	40,983	39,584	37,983	36,950	33,893	30,944	"	27,850
1983-84	1977	37,467	1.120	41,963	37,850	36,414	35,669	35,647	36,820	40,043	41,393	40,376	37,413	33,994	30,165	"	27,149
1984-85					40,704	38,039	36,596	36,204	36,003	37,556	40,443	42,221	39,770	34,420	30,255	.900	27,230
1985-86						40,908	38,229	37,145	36,566	36,723	37,932	41,252	41,588	36,588	30,634	"	27,571
1986-87							41,113	38,802	37,516	37,297	37,090	38,691	40,633	38,261	32,563	"	29,307
1987-88								41,730	39,190	38,266	37,670	37,832	38,111	37,382	34,052	"	30,647
1988-89									42,147	39,974	38,649	38,423	37,265	35,062	33,270	.900	29,943
1989-90										42,990	40,374	39,422	37,847	34,284	31,205	"	28,085
1990-91											43,420	41,181	38,831	34,819	30,513	"	27,462
1991-92												44,288	40,563	35,725	30,989	"	27,890
1992-93													43,624	37,318	31,795	"	28,616
1993-94														40,134	33,213	"	29,892
1994-95															35,719	.900	32,147

* See footnote on preceding table.

Utah

The cohort graph on the following page shows the remarkable difference between the pattern of Utah births and that of U.S. births. It also shows unusual consistency in the patterns of Utah births and first- and seventh-grade enrollments.

Nonpublic school enrollments in each grade are about 1 percent of the enrollments in public schools.

Projections of high school graduates through 1989, generated at the state level, agree very closely with those presented in this report.

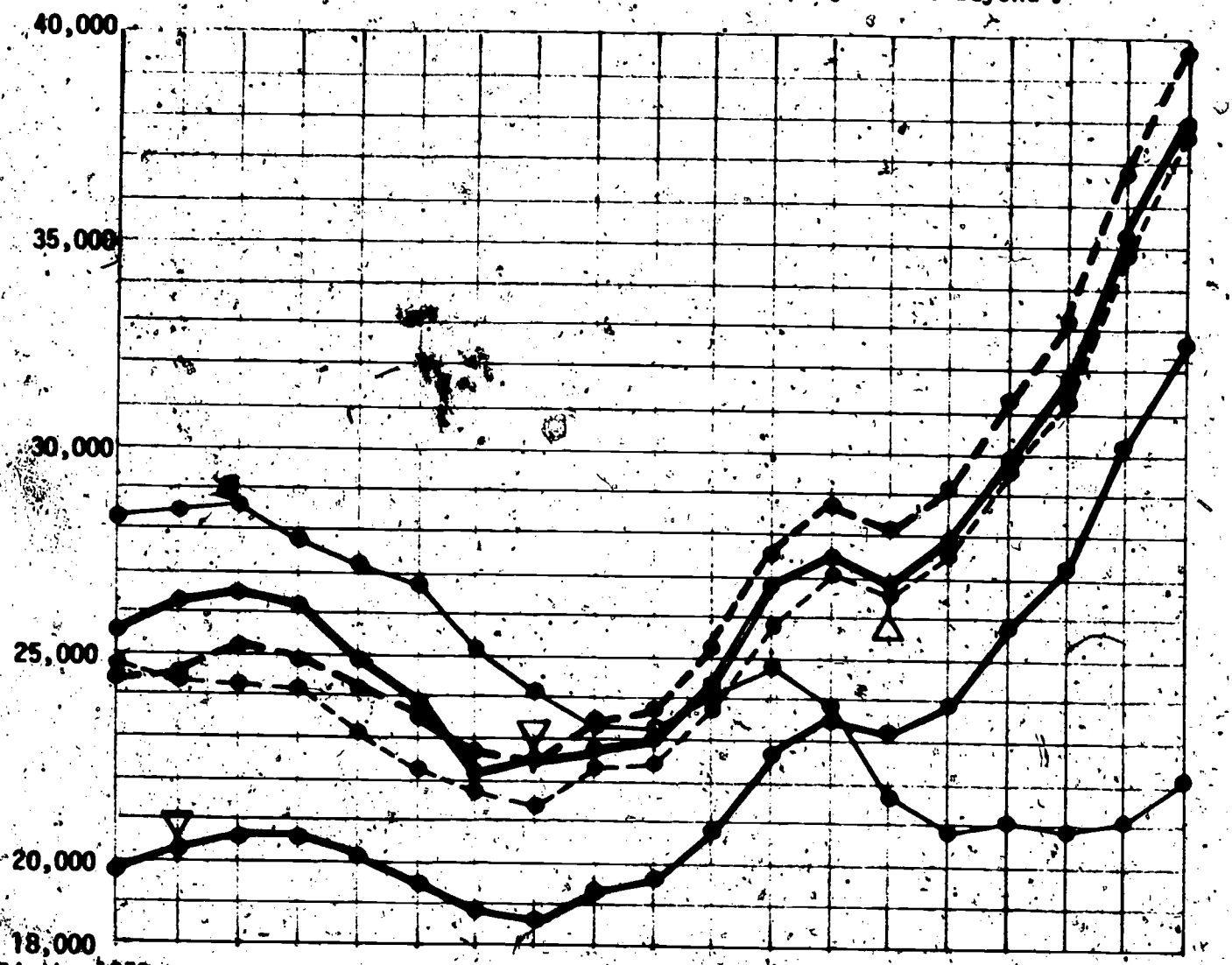
MEASURE OF MIGRATION - GRADES 2-6

Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference	Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference
1966	95,564	94,977	- 587	1976	88,931	89,711	+ 780
1967	95,658	94,982	- 676	1977	91,214	92,051	+ 837
1968	95,389	95,276	- 113	1978	95,993	97,265	+1,272
					Projected		
1969	95,571	95,721	+ 150	1979	101,320	102,278	+ 958
1970	95,785	96,469	+ 684	1980	105,452	106,454	+1,002
1971	95,380	96,028	+ 648	1981	109,267	110,303	+1,036
1972	94,775	96,080	+1,305	1982	112,822	113,891	+1,069
1973	92,696	93,304	+ 608	1983	117,034	118,142	+1,108
1974	89,920	90,423	+ 503	1984	125,454	126,638	+1,184
1975	88,783	89,415	+ 632	1985	135,621	136,902	+1,281

HIGH SCHOOL RETENTION - GRADE 10 TO GRADUATES

Period	Average Retention Ratios: 10th Grade to 11th Grade	11th Grade to 12th Grade	12th Grade to Graduates	Three Ratios Compounded
1965-66 to 1970-71	.966	.938	.942	.854
1973-74 to 1978-79	.956	.933	.921	.821
Projections				
1979-80 to 1994-95	.955	.935	.920	.821

UTAH COHORT GRAPH



UTAH - BIRTHS, ENROLLMENTS BY GRADE, AND HIGH SCHOOL GRADUATES,

SHOWING PROGRESSION RATIOS - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads 12th Grade	Grads
1965-66	1959	25,645	.958	24,571	24,112	24,269	23,786	23,397	22,953	22,729	21,733	20,542	19,393	18,194	17,098	.943	16,123
				.980	.990	.991	.995	1.000	.981	.992	1.019	.999	.962	.941			
1966-67	1960	26,272	.931	24,465	24,068	23,867	24,051	23,672	23,387	22,519	22,543	22,150	20,521	18,659	17,123	.941	16,119
				.979	.989	.992	.997	.995	1.006	1.012	.990	.969	.962	.943			
1967-68	1961	26,590	.923	24,549	23,955	23,795	23,665	23,974	23,548	23,521	22,778	22,320	21,455	19,733	17,591	.944	16,599
				.985	.998	.999	1.002	.997	1.003	.989	1.000	1.005	.974	.933			
1968-69	1962	26,213	.925	24,257	24,189	23,900	23,770	23,712	23,894	23,612	23,254	22,774	22,436	20,902	18,403	.945	17,397
				.982	1.007	.996	1.000	1.002	1.009	.988	.990	.994	.968	.934			
1969-70	1963	24,952	.925	23,081	23,829	24,363	23,815	23,778	23,765	24,113	23,322	23,021	22,634	21,708	19,523	.942	18,395
				.994	1.005	1.008	1.009	1.011	.973	.997	1.006	1.014	.964	.938			
1970-71	1964	25,844	.938	22,375	22,948	23,955	24,504	23,973	24,037	23,131	24,046	23,470	23,344	21,830	20,365	.938	19,097
				1.006	1.014	1.016	1.007	.991	1.014	1.045	1.026	1.011	.953	.936			
1971-72	1965	22,261	.977	21,756	22,500	23,262	24,348	24,665	23,753	24,378	24,168	24,666	23,736	22,240	20,435	.928	18,971
				1.000	1.009	1.016	1.011	1.019	1.033	.996	1.000	.978	.949	.926			
1972-73	1966	22,601	.950	21,468	21,751	22,695	23,625	24,627	25,135	24,529	24,269	24,164	24,131	22,634	20,585	.923	18,993
				.995	1.007	1.006	1.009	1.005	1.005	.999	.997	.997	.950	.918			
1973-74	1967	22,948	.976	22,388	21,367	21,893	22,823	23,837	24,751	25,257	24,498	24,188	24,090	22,914	20,694	.919	19,021
				.996	1.012	1.001	1.005	1.004	1.010	.997	.998	1.003	.949	.923			
1974-75	1968	23,193	.971	22,531	22,302	21,624	21,925	22,932	23,942	24,998	25,178	24,411	24,272	22,862	21,140	.930	19,668
				1.002	1.008	1.004	1.011	1.005	1.007	.996	1.000	1.000	.963	.940			
1975-76	1969	24,232	.988	23,943	22,573	22,483	21,718	22,157	23,057	24,103	24,896	25,182	24,422	23,364	21,492	.920	19,782
				.998	1.006	1.011	1.007	1.011	1.016	1.006	1.013	1.003	.965	.930			
1976-77	1970	26,969	.962	25,934	23,907	22,698	22,731	21,878	22,404	23,426	24,252	25,223	25,268	23,565	21,737	.911	19,801
				1.005	1.004	1.014	1.008	1.011	1.011	1.007	1.004	.991	.948	.933			
1977-78	1971	27,552	.985	27,128	26,055	24,003	23,025	22,910	22,113	22,661	23,599	24,339	24,999	23,951	21,991	.924	20,324
				1.005	1.014	1.014	1.013	1.012	1.019	1.012	1.010	1.003	.955	.938			
1978-79	1972	26,911	.990	26,640	27,251	26,417	24,339	23,313	23,196	22,635	22,932	23,832	24,424	23,872	22,464		

UTAH - PROJECTIONS OF ENROLLMENTS BY GRADE AND HIGH SCHOOL GRADUATES - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads 12th Grade	Grads
1978-79 (Act)	1972	26,911	.990	26,640	27,251	26,[illegible]	24,339	23,313	23,196	22,535	22,932	23,832	24,424	23,872	22,464	.920	20,667 (Proj.)
Progression Ratios					1.003	1.008	1.010	1.010	1.010	1.015	1.000	1.007	.995	.955	.935		
1979-80	1973	27,978	.985	27,558	26,720	27,469	26,681	24,582	23,546	23,544	22,535	23,093	23,713	23,325	22,320	.920	20,534
1980-81	1974	29,946	.990	29,647	27,641	26,934	27,744	26,948	24,828	23,899	23,544	22,693	22,978	22,646	21,809	"	20,064
1981-82	1975	31,667	.990	31,350	29,736	27,862	27,203	28,021	27,217	25,200	23,899	23,709	22,580	21,944	21,174	"	19,480
1982-83	1976	35,[illegible]0	.990	34,957	31,444	29,974	28,141	27,475	28,301	27,625	25,200	24,066	23,590	21,664	20,518	"	18,877
1983-84	1977	37,956	.990	37,576	33,062	31,696	30,274	28,422	27,750	28,726	27,625	25,376	23,946	22,528	20,162	.920	18,549
1984-85					37,589	35,342	32,013	30,577	28,706	28,166	28,726	27,818	25,249	22,868	21,064	"	19,379
1985-86						37,991	35,695	32,333	30,883	29,137	28,166	28,927	27,679	24,113	21,382	"	19,671
1986-87							38,371	36,052	32,656	31,346	29,137	28,363	28,782	26,433	22,546	"	20,742
1987-88								38,755	36,413	33,146	31,346	29,341	28,221	27,487	24,715	.920	22,738
1988-89									39,143	36,959	33,146	31,565	29,194	26,951	25,700	"	23,644
1989-90										39,730	36,959	33,378	31,407	27,880	25,199	"	23,183
1990-91											39,730	37,218	33,211	29,994	26,068	"	23,983
1991-92												40,008	37,032	31,717	28,044	.920	25,800
1992-93													39,808	35,366	29,655	"	27,288
1993-94														38,017	33,067	"	30,422
1994-95															35,546	.920	32,702

Washington

The cohort graph on the next page shows a particularly volatile pattern of ups and downs in births and enrollments, no doubt reflecting the course of the Washington economy. In the historical enrollment table, the ratio of graduates to twelfth-grade enrollment shows a steady decline over the last eight years. In spite of this, the projections assume that the decline will be arrested at the level of .850 and remain there for the entire projection period.

Nonpublic school enrollments in twelfth grade have been about 4.5 percent of the public school enrollments in recent years. The relationship is not expected to change significantly.

The Office of Financial Management makes ten-year projections of enrollments. The twelfth-grade projections are nearly the same as those in this report.

MEASURE OF MIGRATION - GRADES 2-6

Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference	Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference
1966	234,165	240,301	+6,136	1976	220,114	221,617	+1,503
1967	242,888	248,858	+5,970	1977	220,924	224,101	+3,177
1968	251,079	255,520	+4,441	1978	228,278	232,134	+3,856
				Projected			
1969	257,796	261,334	+3,538	1979	234,611	236,825	+2,214
1970	263,255	262,058	-1,197	1980	233,115	235,361	+2,246
1971	261,221	259,170	-2,051	1981	228,678	230,901	+2,223
1972	254,916	252,648	-2,268	1982	224,717	226,871	+2,154
1973	243,124	245,874	+2,750	1983	222,799	224,899	+2,100
1974	234,026	235,404	+1,378	1984	228,433	230,582	+2,149
1975	225,578	227,926	+2,348	1985	238,218	240,452	+2,234

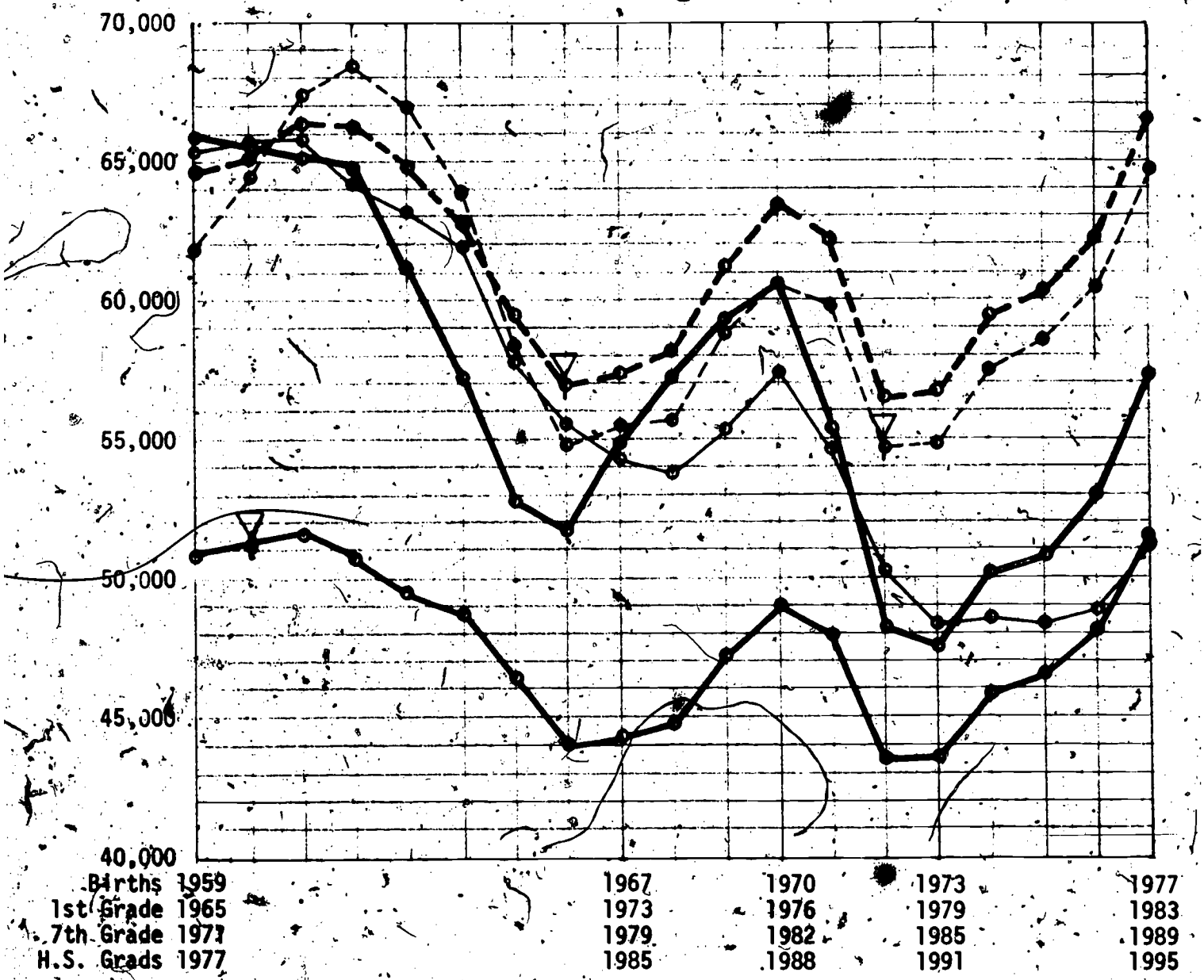
HIGH SCHOOL RETENTION - GRADE 10 TO GRADUATES

Average Retention Ratios

Period	10th Grade to 11th Grade	11th Grade to 12th Grade	12th Grade to Graduates	Three Ratios Compounded
1965-66 to 1970-71	.970	.941	.935	.853
1973-74 to 1978-79	.950	.929	.885	.781
Projections				
1979-80 to 1994-95	.950	.933	.850	.753

WASHINGTON COHORT GRAPH

1st grade — — — 7th grade — — — U.S. births = 65 —
WA births ═══ H.S. grads ━━━ 1978 actuals; projections beyond ▽



WASHINGTON - BIRTHS, ENROLLMENTS BY GRADE, AND HIGH SCHOOL GRADUATES

SHOWING PROGRESSION RATIOS - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade/Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads/12th Grade	Grads
1965-66	1959	65,729	.943	61,962	59,203	59,018	58,569	57,375	57,227	56,773	56,832	54,972	53,979	51,772	48,768	.936	45,636
				.995	1.022	1.027	1.027	1.030	1.031	1.021	1.041	1.017	.971	.943			
1966-67	1960	65,251	.989	64,507	61,656	60,489	60,617	60,126	59,069	58,979	57,937	58,336	55,882	52,421	48,797	.942	45,949
				.992	1.015	1.028	1.028	1.027	1.032	1.025	1.039	1.017	.976	.950			
1967-68	1961	65,013	1.037	67,422	63,992	62,560	62,190	62,337	61,771	60,945	60,436	60,206	59,339	54,549	49,803	.933	46,490
				.979	1.010	1.018	1.020	1.023	1.024	1.017	1.034	1.018	.972	.944			
1968-69	1962	64,812	1.055	68,790	66,024	64,611	63,703	63,458	63,748	63,273	62,001	62,495	61,277	57,699	51,511	.932	48,001
				.974	1.007	1.012	1.016	1.020	1.022	1.014	1.028	1.004	.971	.937			
1969-70	1963	61,013	1.098	66,996	66,641	66,500	65,375	64,739	64,720	65,164	64,168	63,722	62,771	59,482	54,041	.933	50,425
				.955	.988	.994	.999	1.001	1.005	1.001	1.017	1.001	.961	.932			
1970-71	1964	57,148	1.117	63,824	63,952	65,849	66,124	65,297	64,789	65,040	65,223	65,266	63,807	60,298	55,460	.918	50,902
				.954	.987	.988	.996	.998	.998	.997	1.011	.995	.954	.935			
1971-72	1965	52,806	1.106	58,380	60,905	63,141	65,052	65,848	65,159	64,680	64,832	65,968	64,934	60,851	56,383	.915	51,563
				.961	.990	.989	.989	.997	.999	.995	1.008	.994	.946	.918			
1972-73	1966	51,777	1.060	54,909	56,126	60,271	62,390	64,337	65,650	65,075	64,383	65,343	65,567	61,455	55,887	.912	50,988
				.977	1.007	1.007	1.013	1.018	1.011	1.011	1.021	1.003	.949	.926			
1973-74	1967	54,875	1.012	55,518	53,631	56,540	60,675	63,180	65,479	66,365	65,789	65,757	65,524	62,247	56,931	.911	51,868
				.971	1.003	1.004	1.007	1.009	1.011	1.006	1.018	1.003	.948	.914			
1974-75	1968	57,206	.971	55,574	53,918	53,778	56,762	61,120	63,744	66,226	66,766	66,991	65,936	62,084	56,906	.896	50,990
				.978	1.005	1.008	1.011	1.017	1.016	1.005	1.022	.998	.950	.928			
1975-76	1969	59,354	.992	58,865	54,358	54,177	54,190	57,389	62,170	64,751	66,540	68,264	66,825	62,639	57,605	.886	51,012
				.973	1.001	1.005	1.011	1.010	1.010	1.003	1.021	.988	.950	.932			
1976-77	1970	60,499	1.002	60,628	57,286	54,409	54,436	54,793	57,979	62,791	64,961	67,961	67,440	63,471	58,357	.872	50,885
				.987	1.010	1.017	1.015	1.016	1.025	1.017	1.023	.997	.959	.936			
1977-78	1971	55,304	1.084	59,937	59,837	57,869	55,313	55,259	55,660	59,402	63,638	66,481	67,770	64,650	59,406	.860	51,101
				.984	1.011	1.015	1.020	1.022	1.023	1.019	1.025	.992	.943	.933			
1978-79	1972	48,250	1.134	54,704	58,959	60,509	58,722	56,421	56,482	56,957	60,511	65,255	65,927	63,899	60,314		

WASHINGTON - PROJECTIONS OF ENROLLMENTS BY GRADE AND HIGH SCHOOL GRADUATES - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads 12th Grade	Grads
1978-79 (Act)	1972	48,250	1.134	54,704	58,959	60,509	58,722	56,421	56,482	56,957	60,511	65,255	65,927	63,899	60,314	.855	51,568 (Proj.)
Progression Ratios					.978	1.005	1.007	1.012	1.014	1.015	1.010	1.022	.993	.950	.933		
1979-80	1973	47,636	1.150	54,781	53,501	59,254	60,933	59,427	57,211	57,329	57,527	61,842	64,798	62,631	59,618	.850	50,675
1980-81	1974	50,096	1.150	57,610	53,976	53,769	59,689	61,664	60,259	58,069	57,902	58,793	61,409	61,558	58,435	"	49,670
1981-82	1975	50,821	1.150	58,444	56,343	53,844	54,145	60,389	62,527	61,163	58,650	59,176	58,381	58,339	57,434	"	48,819
1982-83	1976	53,004	1.140	60,425	57,158	56,625	54,221	54,795	61,230	63,465	61,775	59,940	58,762	55,462	54,430	"	46,266
1983-84	1977	57,256	1.130	64,699	59,096	57,444	57,021	54,872	55,562	62,148	64,100	63,134	59,520	55,824	51,746	"	43,984
1984-85					63,276	59,391	57,846	57,705	55,640	56,395	62,769	65,510	62,692	56,544	52,084	.850	44,271
1985-86						63,592	59,807	58,540	58,513	56,475	56,959	64,150	65,051	59,557	52,756	"	44,843
1986-87							64,037	60,525	59,360	59,391	57,040	58,212	63,701	61,798	55,567	"	47,232
1987-88								64,805	61,372	60,250	59,985	58,295	57,805	60,516	57,658	"	49,009
1988-89									65,712	62,293	60,853	61,305	57,887	54,915	56,461	.850	47,992
1989-90										66,698	62,916	62,192	60,876	54,993	51,236	"	43,551
1990-91											67,365	64,300	61,757	57,832	51,308	"	43,612
1991-92												68,847	63,850	58,669	53,957	"	45,863
1992-93													68,365	60,658	54,738	.850	46,527
1993-94														64,947	56,594	"	48,105
1994-95															60,596	.850	51,507

Wyoming

The erratic picture shown by the lines on the cohort graph on the following page is due primarily to migration, outward in the early years of the graph and heavily inward in the last six years. This is also shown in the Measure of Migration table. Projections assume continued heavy in-migration throughout the next 15 years.

Nonpublic school graduates number only about 100 per year, according to the sketchy information available.

Five-year projections, based on 1977-78 enrollments as the latest actuals, were made by the Department of Education. Four different projections are presented. The lowest of those agrees fairly closely with the first four projected twelfth-grade figures of this report.

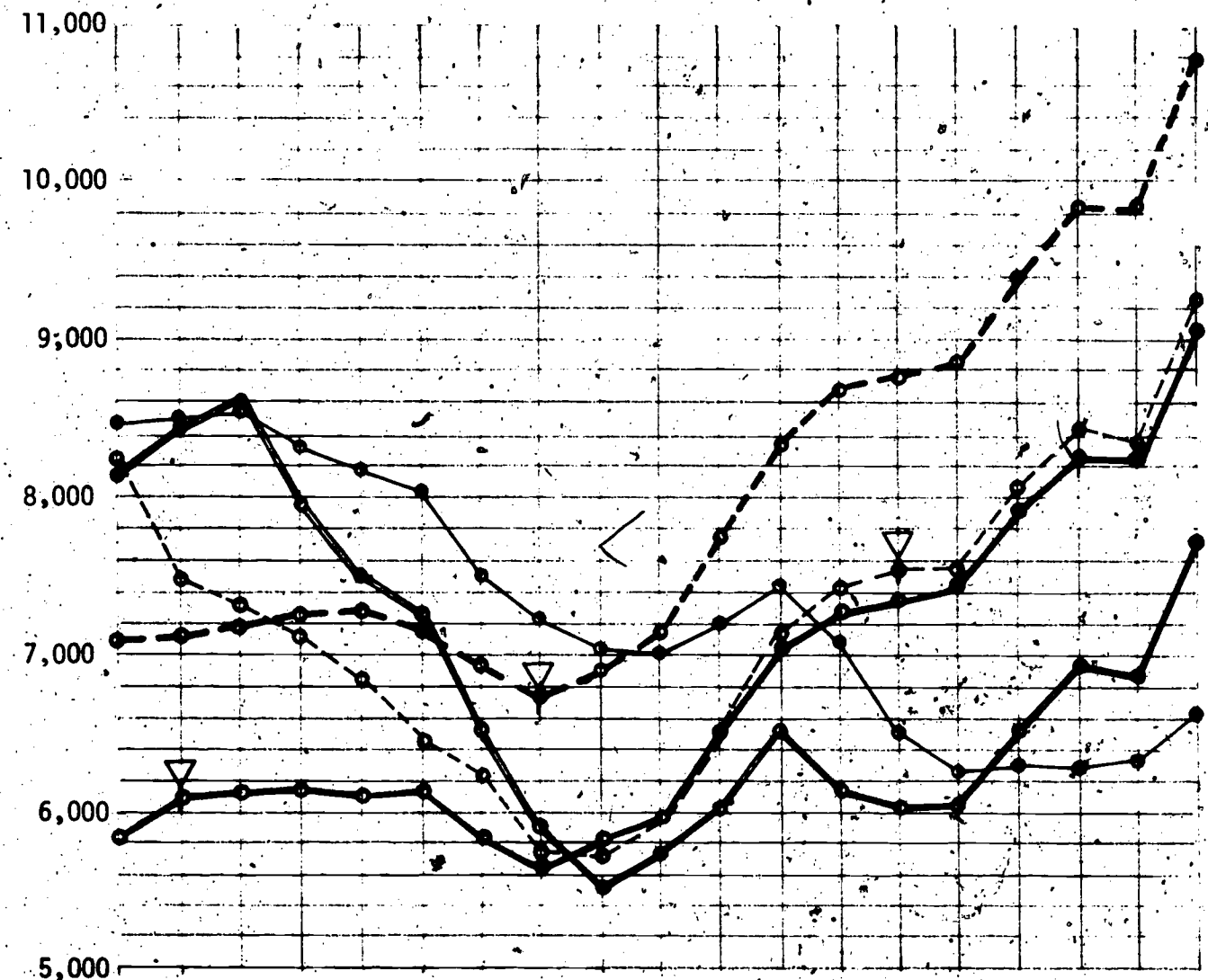
MEASURE OF MIGRATION - GRADES 2-6

Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference	Fall of Year	Previous Year Grades 2-5	This Year Grades 3-6	Difference
1966	30,280	27,446	-2,834	1976	24,284	25,031	+ 747
1967	27,963	27,254	- 709	1977	25,081	25,716	+ 635
1968	27,543	27,202	- 341	1978	26,555	27,665	+1,110
				Projected			
1969	27,360	27,480	+ 120	1979	28,556	29,290	+ 734
1970	27,689	27,790	+ 101	1980	30,065	30,839	+ 774
1971	27,564	27,415	- 149	1981	31,075	31,876	+ 801
1972	26,777	26,771	+ 6	1982	32,009	32,832	+ 823
1973	25,792	26,150	+ 358	1983	33,042	33,892	+ 850
1974	24,779	25,546	+ 767	1984	33,957	34,831	+ 874
1975	24,384	25,045	+ 661	1985	35,695	36,611	+ 916

HIGH SCHOOL RETENTION - GRADE 10 TO GRADUATES

Period	Average Retention Ratios: 10th Grade to 11th Grade	11th Grade to 12th Grade	12th Grade to Graduates	Three Ratios Compounded
1965-66 to 1970-71	.946	.932	.941	.830
1973-74 to 1978-79	.933	.912	.951	.809
Projections				
1979-80 to 1994-95	.930	.910	.950	.804

WYOMING COHORT GRAPH



Births	1959	1967	1970	1973	1977
1st Grade	1965	1973	1976	1979	1983
7th Grade	1971	1979	1982	1985	1989
H.S. Grads	1977	1985	1988	1991	1995

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WYOMING - BIRTHS, ENROLLMENTS BY GRADE, AND HIGH SCHOOL GRADUATES

SHOWING PROGRESSION RATIOS - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade / Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads / 12th Grade	Grads
1965-66	1959	8,189	1.005	8,227	7,771	7,634	7,586	7,289	7,340	7,190	6,836	6,736	6,342	5,886	5,507	.937	5,162
					.876	.895	.901	.914	.917	.943	.945	.975	.912	.894	.914		
1966-67	1960	8,499	.881	7,484	7,203	6,954	6,875	6,931	6,686	6,918	6,792	6 662	6,144	5 670	5,380	.951	5,115
					.949	.968	.968	.982	.984	1.005	.981	.986	.969	.973	.957		
1967-68	1961	8,060	.855	7,321	7,106	6,974	6,715	6,748	6,817	6,721	6,788	6,698	6,453	5,977	5,425	.939	5,093
					.946	.975	.980	.994	1.003	1.010	.999	1.025	1.003	.967	.944		
1968-69	1962	7,984	.899	7,175	6,924	6,930	6,834	6,672	6,766	6,886	6,712	6,955	6,719	6,237	5,642	.935	5,274
					.966	.988	1.013	1.010	1.007	1.015	1.012	1.018	.989	.954	.917		
1969-70	1963	7,494	.913	6,845	6,930	6,838	7,017	6,904	6,721	6,867	6,970	6,830	6,881	6,408	5,722	.937	5,363
					.981	.994	1.016	.999	1.005	1.021	1.015	1.020	1.004	.944	.927		
1970-71	1964	7,252	.892	6,466	6,712	6,891	6,950	7,011	6,938	6,861	6,969	7,106	6,859	6,494	5,943	.948	5,635
					.977	.989	.999	.998	.992	1.026	1.001	1.014	.994	.934	.925		
1971-72	1965	6,534	.950	6,207	6,317	6,638	6,887	6,935	6,955	7,117	6,867	7,064	7,064	6,404	6,007	.962	5,778
					.967	.996	.992	1.004	1.007	1.027	.997	1.016	1.009	.944	.925		
1972-73	1966	5,898	.968	5,709	6,004	6,290	6,584	6,914	6,983	7,145	7,099	6,976	7,126	6,671	5,925	.954	5,653
					.978	1.016	1.013	1.022	1.006	1.031	1.012	1.017	1.001	.918	.905		
1973-74	1967	5,540	1.034	5,726	5,584	6,000	6,369	6,726	6,955	7,200	7,228	7,219	6,985	6,542	6,037	.954	5,760
					1.005	1.031	1.038	1.027	1.029	1.043	1.021	1.017	1.000	.938	.917		
1974-75	1968	5,750	1.043	5,995	5,756	5,757	6,329	6,542	6,918	7,252	7,349	7,354	7,218	6,551	6,002	.941	5,648
					1.009	1.026	1.029	1.013	1.041	1.049	1.019	1.028	1.009	.929	.919		
1975-76	1969	6,033	1.076	6,492	6,046	5,904	5,925	6,409	6,807	7,256	7,388	7,553	7,417	6,703	6,023	.956	5,757
					1.019	1.022	1.038	1.040	1.024	1.056	1.033	1.037	1.011	.937	.916		
1976-77	1970	6,535	1.084	7,086	6,613	6,177	6,130	6,161	6,563	7,190	7,498	7,662	7,639	6,949	6,143	.954	5,861
					1.010	1.023	1.033	1.020	1.025	1.060	1.023	1.028	1.004	.937	.918		
1977-78	1971	6,156	1.207	7,431	7,155	6,763	6,382	6,255	6,316	6,959	7,358	7,706	7,695	7,156	6,380	.952	6,074
					1.010	1.030	1.041	1.040	1.058	1.066	1.023	1.042	.988	.924	.888		
1978-79	1972	6,011	1.252	7,524	7,508	7,372	7,038	6,638	6,617	6,731	7,122	7,666	7,612	7,114	6,356		

WYOMING - PROJECTIONS OF ENROLLMENTS BY GRADE AND HIGH SCHOOL GRADUATES - PUBLIC SCHOOLS

School Year	Births Year	Births Number	Ratio First Grade Births	1	2	3	4	5	6	7	8	9	10	11	12	Ratio Grads 12th Grade	Grads
1978-79 (Act)	1972	6,011	1.252	7,524	7,508	7,372	7,038	6,638	6,617	6,731	7,122	7,666	7,612	7,114	6,356	.960	6,102 (Proj.)
Progression Ratios					1.010	1.022	1.030	1.023	1.028	1.045	1.020	1.025	1.000	.930	.910		
1979-80	1973	6,059	1.248	7,562	7,599	7,673	7,593	7,200	6,824	6,915	6,866	7,300	7,666	7,079	6,474	.950	6,150
1980-81	1974	6,536	1.230	8,039	7,638	7,766	7,903	7,768	7,402	7,131	7,053	7,038	7,300	7,129	6,542	"	6,120
1981-82	1975	6,938	1.216	8,437	8,119	7,806	7,999	8,085	7,986	7,735	7,274	7,229	7,038	6,789	6,487	"	6,163
1982-83	1976	6,891	1.218	8,393	8,521	8,298	8,040	8,183	8,311	8,345	7,890	7,456	7,229	6,545	6,178	"	5,869
1983-84	1977	7,728	1.194	9,227	8,477	8,708	8,547	8,225	8,412	8,685	8,512	8,087	7,456	6,723	6,956	"	5,658
1984-85					9,319	8,663	8,969	8,744	8,459	8,791	8,859	8,725	8,087	6,934	6,118	.950	5,812
1985-86						9,524	8,923	9,175	8,989	8,835	8,967	9,080	8,725	7,521	6,310	"	5,995
1986-87							9,810	9,328	9,432	9,394	9,012	9,191	9,080	8,114	6,844	"	6,502
1987-88								10,036	9,384	9,856	9,582	9,237	9,191	8,444	7,384	"	7,015
1988-89									10,317	9,806	10,053	9,822	9,237	8,548	7,684	.950	7,300
1989-90										10,781	10,002	10,304	9,822	8,590	7,779	"	7,390
1990-91											10,997	10,252	10,304	9,134	7,817	"	7,426
1991-92												11,272	10,252	9,583	8,312	"	7,896
1992-93													11,272	9,534	8,721	.950	8,285
1993-94														10,483	8,676	"	8,242
1994-95															9,540	.950	9,063

List of Contacts in Each State

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