# CURRENT POPULATION REPORTS 

## POPULATION ESTIMATES

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PROJECTICNS OF SCHOOL ENROLLMENT IN THE UNITED STATES 1.953 10 1.965*
(This report contains projections of achool emolinent, by grade, to 1965 superseding those given in gurrent Population Reports, Series p-25, No. 18. It also Includes projections of the population of school age from 1953 to 1965 , supplementing the figures publithed in Series P-25, No. 7B)

In the past several years, much concern has been expressed regarding the cvercrowded condtions of our Nation's elementary schools and the problems of plaming for additional facllitles to meet the antictpated continued increases in enrollment for the next several years. State and locel planing boards now engaged in studying these probiems require some estimate of the approximate future level of enrollment at various grades which can be used as a basis for planning purposes. The Bureau of the Census has received many requests concerning such estimetes and on methods of preperirg them. In response to these recuests, the Bureau of the Census is publising in this report projections of enrollment in elementary and nigh schools, by grade, for the United States as a whole, for 2953 to 1965 , and a general discussion of the methods and assumptions. The profections include parocilel and other privete schools, as well as public schools. Beginning with 1960, the enroliment in some of the grades is dependent on future births; and here it wes considered prudent to show several projections reflecting different assumptions about the course of births.

## IND ICATED CHANGES IN ENROLLMENT

Total enrollment.--According to the projections of future enrollment shown in this report, enrollment in our elementary and high schools is expected to Increase by more than 1.3 million annually, a rate of increase of about 4 percent a year, to at least 1959, when this year's crop of babies will be entering school for the first time. It is estimeted that about 59 million children will be enrolled by 1959, or one-third more than were enrolied in 1952. For the next several years, the elementary gredes will becr the major burden of these increases, although
high school enrollments w111 also be increasing at a substantial rate. It is estimated that high school enroliment will increcse by at least 3 percent annuelly from the middle of tims decade through 1964, with the peak growth rate coming early in the $1960^{\prime} \mathrm{s}$. During this period the large elementery school classes of the present decede will be advencing into high school. By 1960, our high schools will enroll. about 9.4 mililion students, and, by 1965 , le mililon, compared with a current enrollment of about 7 mll lion. Roughly speaking, for every three students now attending high school, there will be four students in attendance by 1950 , and five by 1965.

Elementary enrollment, wich vill be increasting rather rapldily for the next several years, will reach a level of about 30 mililon in 1959 , an increase of almost 8 milifon in seven years. Changes In total elementary enroliment after 1959 cannot be estimated with any great degree of confldence since they will reilect to a greet extent changes in the cohort of persons yet to be born. According to any of the three series giver here, all whion are believed to be possible and reasonable, it appears thet enrollment in elementery grades between 1960 and 1965 will remain, for the most part, somewhere near the 1959 level. The exact changes, however, will depend upon the annuel chenees in births between now and 1960. None of the three underlying assumpthons about the future course of fertility rates allows for increases from the present levels or for decreases to the levels prevailing in the Great Depression.

Enroliment by grade. -m'The sharpest recent increase in enrollment in any one grade hes taken place this pest school year (between October 1952 and 1953), when the first grade enrolled about three-

[^0]quarters of a milion more children tinan the prew YLous year, rewleoting the uptum in births between 1946 and $1947 \%^{2}$ Chamees in dirstmgrade emodanent after this year wall be rether smoll, and whe peak exmollment of chilaren elreact borm whit be in 1959. Wher about 5.8 milulon chisdren will be enrolled, or about 10 percont mone thax this year. Gince a lame mejority of students spench ondy one year in a erade, this cherue in itrst-grade enrounent wll owuse onanges in the nigher Exade ta these Pirct graders progrese throug the sonool syetem. Thus, thes sherp inorease in didretmerade enroliment in 1953 will bltimately rasult in an elghthmempde enrolamant in 2960 whith wlu be ap peroent nikher then the estamoted number now onpolled. Bimlamy, am thas eroup goes through hath sehoal. by 3 gat there what be 65 pereent moxe mupijs in the fourth yeux of high sohool then are now errolicu.*

## MOPMODS ANO ASSMMHITOLE

The projections of senool emollment shown heme were prepared by somenthat diferent procedure than was used In en earilar Eureak ot the Census report publigned In 1949 (Series $\mathrm{F}-25$, No. 18 ) presentine enroliment projections to 1950. The method chosen here was one which made meximum use of the detalled amoliment subthaties available from the 1960 Census ot Population, sinoe it represented the only source Trom wade enrollment date were avaliable for the Untbed Etatas, coverine both publio and private tahools, by age and eride. The speodile method used involved projecting age-grede speoivio enroliment ratow tor amch yaar to 2965, and applying thase rates to ainglemyear-of-age projeotions of population. The indtisi age-grade reiationenips were wotained from the 1950 census. Eecuuse of the figh rate ot enrollinent for children 6 to 13 years old (about 98 percent enrolied) the 1950 rates were held constant to 2065, sinoe tit seamed very unlikely that eny 1 m provement in these rates would occur. The rates for the high-school-age ohllaren, however, 1.e., the 14-to- 18 group, were assumed to improve annueliy to 1965 on the basis of past trends in these retess as ghown by eansue ifgures from 1920 to date. " For each of thase ages, the rates were projectac graphloalyy rather than by exact mathematical methoas. The indtial. High school enroliment rates for the population 29 to 24 yoers old were assumed to romain oonstant throughout the projection perlod, primarliy because this group is sonswhat outside of the regular sohoolmge population and has relatively little efteot on the megntude of the enroliment iteures ghow bere. The grade empolment figures thus obm

[^1]tefred were then summed to riejo totwl entolimename in elementary and ind achoola, separately.

The population projections to which these retee were applited were based on revised projeotione ot the population of the untued States, by age, to 15ms, recently published by the Bureau of the Census in Current population Feportes, Series p-25, Tvo. 7e. That report gives e deteliad explemation ot the mathods tuod assumptions used in preparint the popu. 1ation projections. The populetion protections show here weve prepared in a simpler manner using singlom year-ot-age dete, Erietiy, the age projections for each year to 2965 were obtained by projectlig the July 1,2962 , populewion (show in Gurment Population Reporte. Somses P-s5, No. ry by by single yeerg of age, bnnually to 2965, using the same mortality Fates ard drmgeration allowance as used th the
 fusted alightily to agree with the published s-year wotwits for 1055,2960 , and 2965 . The intermedjete yeare were also adyusted accordingly to provide a Emooth Junoture from year to year.

One other major modirloetion was made in the basic enroliment rewes obtained from the census. In preparing these estamstes, it was thought desiraple to relate them to ootober of aeoh school yaer (roughiy the bemiming or the school year) rather then Apri2, the raterence date of the consus tie ures. 4 The tesemerade speciatc ratete wera, therem fore, Edjusted upwarde gomswat to refleot. the highan enrodiment levels that ueueliy occur in Ootobse as compared to April. This dituerence is particulendy 2arge sor the G-yearmolats gine there is a "beckios" of these chilaran weltime to enroli at the opentig of each school year (onilaren wo reached their sixth Dlethony aurlne the school year or summer months and could not enroli until the begimning of the now school termi. The census dats, refiecting Aprit anroliment rates, showed about 63 percent of the 6 m yearmolds enrolled, wereas this rate 18 maully above 20 percent at the opening of acch school year, The rate for this age usea here was approximataiy 95 peroent enrolied, rather than $6 \delta$ percent, As a Linal step to ceriving Ootober enroliment leveis, the deta for 2950 were adjusted to agree with the pegults from the october 2952 curment popuation Surrey and pubilened in Current Population Roports. Series p-20, No. $45 .{ }^{6}$ The Eajustment ratios rapuimed to make the projections for 2952 agroe with the curm rent survey resulte were then used to adjust the projections for subsequent yearg to brine them into Ine with the 2 ges ilgures. This gidjustment amounted to Ebout 2 percent of the total enroliment.

[^2]
## DEFINXTIONS AND EXPLANATIONS

This report presents estimetes of future enrolizment in elementary and righ schools of the unthed Stetes, by grede, for each year $\leq$ rom 1953 to 1965. only one series of enroliment pisuras is given fow the years 1953 to 1959, slnoe these 11 gures are based on profeotions of the population borm before duly 1953 and projected enroliment rates, as outlined in the above section. The pleures for 2960 to 1965 , however, involve projections of conorts of children yet to be born between 1953 and 1950. Therepore, three series of enroliment projections are shom corresponding to the three serdes of the projected number of births for thexe yesms given in Gurrent Population Reporte, Series p-25. No. 78. ${ }^{7}$. The three sertes are labeled as "A and $B_{\text {, " " " }}$ " and "D, " corm responding to the notation used in Saries Fme5, No. 78, for convenience in ldentitying the proper population base, the three series shown aftect only the elementary gracdes since poxsons born atter 195 ordinarily wll not enter high sohool untll some time after 1965. As indicated by table 1. a fale portion even of the elementary grades are not ax"fected by these projected births.

The enrolment tigures given here were designed to be comparable with deta obtained in the Bureau of the Census Current Population Survey . School enrolinent data obtained in the Current population Survey are based on replies to the enumerator's inquiry as to whether the person hed been enrolled at any time during the current term or school year in any type of day or night school, publio, parochial, or other protvate school in the regular school system. Such schools usually include elementary schools (but not kindergarten); high schools (including junior and senior high) ; and colleges, universities, and proiessional schools. (Note--the profections relate only to persons enrolled in elementary or high schools.) persons attending "special" schools not in the regular school system, such

[^3]as bmaxe schools or business golleges, are not inchated int the enrollment tícures. Persons enrolled th classes which to not requite prysical presence in school: such as correspondence courses or other courses of zadependent study, and in trainlng courses given directiy on the job, are also not included in the earollment tifgures.

Informstion obtained from reports of school systems are only roughly comparable with the data collected by the Bureau of the Census by household intembew because of atiterenoes in detinttion, subject matter covered, and time references. To IIlustrate, for comparable grades, the errollment flgures of the Burean of the census tend to be lower than those in the Blemnial Survey of Education conducted by the Untted states oftice of Educstion, largely because the former refer to shorter time pertods and becanse they count a person only once. although he may heve attenced more than one school during the meportine period. In the biennidi survey, some perm sons are inciuded in the enmolument ileures more than onoe, such as whose enrolled in both publio and private schools, and also those enrolled in two dfferent stetes at any time during the school year. Furthermore, children emrolled in kindergarten are included in the enrollment fieures of the ofeloe of Education but not in those af the Burean or the Census.

Although the method used here yields satssfactory results for the united States as a whole, its applicability will vary irom area to area. the problems of preparing enroilment projections for States or smaller geographic areas are substantlelly more complicated than for the undted states as a whole. The influence of factors such as intemel migration and different policies and prectices atw recting retardation, acceleration, or aropping out of school represent some of the areas of differences between nstional and local profections. It is sugm gested thet if netional trends are epplled to the study of local situations, the factors mentioned above be taken into account as much as possible and the method and assumptions be adjusted accordingly.

Table 1 of this report shows enrollment profections, by grade, for each year October 1953 to 1965, With a current estimate for 1952. Table 2 shows the underlying single-year-of-age projections of the population 5 to 24 years old, consistent with those in Series P-25; No. 78.

Table 1.--PROJEGTONS OF ELBMENTARY MD HIGH SCHOOL EAROLLMENTS, BY GRADE, FOR THE ONITED STATES: OCTOBER 1,1953 TO 1965 , AND CURRENT ESTIMate, OCTOBER 1, 1952
(In thousands. See text for brief statement of methods and assumptions)


Table 2.--PROSEGTIONS OF THE POPULATION 5 TO 24 YEARS OLD, BY SINGLE YEARS OF AGE, FOR THE UNITED STATES HVLUDING ARMRD FORCES OVERSEAS: JULY 1 , I953 TO 1965, AND CURRENT ESTMMATE, JULY 1, 1952
(In thousands. Based on population projections given in Current Population Feports, Series P-25, No. 78. See text for brief statement



[^0]:    * Prepared by Meyer Zitter of the Eatimates and Forecasta Unit, Demographic Statistias Section, Fopulation and Housing Division.

[^1]:     well ais thase ahiluren emteriag pohool for the firet tame. Although thite Ettuation is true for otner grades an wali, the proportion of "xepeaterg" is muah greater jat the first grade then sin nry other. This fient is reflentef in table 1 by the sharp ayop in exrolitaent be* Thie faet is reilented $2 n$ tebi,
     projoctea to 2.96 ; for the haghmobvol-age oftlaray than time oursent projorea to 196 tor the haghe
    
     meximun onauge wan tor the 17 mantmadis, an inarsase itrom 68.2 perdent to 75.0 peraent tis that perdod.

[^2]:    Ab, indactad below, the figures were tied in with the ostobery
     achool earoliment data relating to Oatober anmully, wah reaul to be used as a bagas for revising these proteationa in later yearn.
    "See, for example, Curreat Population Reports, sexies P\%o. No. 45.
    
     for this datce consietent with the 1950 \%omsus of Popuzation. The
    
    

[^3]:    ${ }^{7}$ Series $7-25$, No. 78, actually ehows four series of population projections to 1975, viz., Series A, B, C, and D, "but only three beries until 1965, alnce the projections of births based on assumpe tons $A$ and $B$ are the ame up through 1965 . The projected number of births based on Seriae A, B, C, and D imply the following assump. tions as to fertility: Series A -. 1950-53 level continues to 1975; Series B - 1950-53 level oontinues to 1965 , then declines to about the 1940 level by 1975; Sertes C - 1950-53 Level decifnes from 1953 to about the 1940 level by 1975; Series D - 1950-53 level declines from 1953 to about the 1940 level by 2960 and continues at that level to 1975.

