TENNESSEE POPULATION PROJECTIONS: 1990-2000*

Print and Tape Version Containing:

I.   POPULATION PROJECTIONS FOR TENNESSEE COUNTIES BY AGE
      (5 YEARS) AND SEX FOR TOTAL AND WHITE: 1990-2000

II.   POPULATION PROJECTIONS FOR TENNESSEE COUNTIES BY AGE
      (SINGLE YEARS) AND SEX FOR TOTAL AND WHITE: 1990-2000

III. POPULATION PROJECTIONS FOR TENNESSEE SMAS BY AGE
      (5 YEARS) AND SEX FOR TOTAL AND WHITE: 1990-2000

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METHODOLOGY

I. OVERVIEW

The methodology used in this set of population projections is similar to that used by Jacobsen and Hastings (1983b); thus, our discussion draws heavily from the earlier report.

The cohort component II technique as outlined by Irwin (U.S. Bureau of the Census, 1977b) is used to project the 1980 population by age, sex, and race for the state of Tennessee and each of the 95 counties to 1990 and 2000. This technique is most typically used when projecting national populations, states, or counties. For smaller civil divisions it is too unwieldy as a strategy.

The name implies the strategy followed. A "cohort" is an aggregate of individuals who experience the same event in the same time interim. For instance, all people born in 1980 are members of the birth cohort of 1980. "Component" refers to the rates of fertility, mortality, and migration assumed to be in effect during the projection period. To project a population then, an initial population estimate or count is obtained, in this case, the 1980 census count. Each age-sex group is aged 10 years to 1990 and subject to losses and gains. Losses and gains are generated by applying the appropriate age-sex specific rates of fertility, mortality, and migration against the population age-sex distribution.

These components of change include observed fertility and mortality rates as well as estimated net migration rates for the initial population to be projected. Schematically the procedure is:

A.   Expected 1990 population = 1) Estimated births 1980-1990
                               2) Population 1980 x Survival Rates

B.   Net migration estimates 1980-1990 = Expected 1990 population x Net
                               Migration Rates

C.   Population Projection 1990 = Expected 1990 population + net migration
                               estimate

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II.   STEPS IN MAKING POPULATION PROJECTIONS

Population to be Projected

Each of Tennessee's 95 counties are projected from 1980 in 10-year increments to the years 1990 and 2000. Population counts by age, sex, and race in the 1980 census were available on a special tape prepared by the Bureau. The tape contained counts using the 1970 race classification. By using the 1970 definition of race for the 1970 and 1980 counts comparability of the data sets was ensured. The age distribution was reported in single years, thus we aggregated to obtain the following distribution: less than 1, 1-4, 5-9, ..., 80-84, and 85 and over (U.S. Bureau of the Census, 1980). The 1980 counts were adjusted by age, sex, and race to compensate for reporting errors. Ratios for this adjustment were provided by the Bureau (1983c).

Survival Rates

The mortality component was obtained by calculating life table forward survival rates (SRs). White and non-white life tables by age and sex were constructed for each county for 1970 and 1980. Deaths registered by county and by age, sex, and race were used to create the appropriate mortality rates (Mx) which were then transformed in the proportions dying during an age interval (qx). A hypothetical cohort of 100,000 births—the radix—was subjected to the mortality schedule, age-by-age until all members had died.

The effects of mortality were expressed in two ways: (1) the number living in an age interval (L_x); and, (2) the number living in a given age interval and all subsequent intervals (T_x). The L_x and T_x values were used to calculate 10-year survival rates. The 1970 SRs were used in calculating the various net migration rates for 1970-80 in the projection. The 1980 SRs were used to express the mortality component assuming that there will be no change in the pattern of dying during the projection period.

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SRs-1970-Data and Modifications

The population counts were obtained from the 1970 census (U.S. Bureau of the Census, 1973). Due to the undercount in the 1970 census, the counts were adjusted by inflating the age-sex specific figures using the factors provided by the U.S. Bureau of the Census (1983a; 1983b). For details on the adjustment procedure, see Jacobsen and Hastings, 1983a.

A file containing: (a) births for the state and each county; (b) state and county deaths by age in single years, sex, and race; and (c) state and county infant deaths by sex and race, was obtained from the State Data Center in Nashville (1984). (Since deaths were reported in single years for each of the counties, there was no need to indirectly standardize as done in the earlier report.) Several modifications to these data were made.

1) Total births for each county 1969, 1970, 1971 were proportioned into male and female births using the sex ratio at birth of 105 males to 100 females.

2) The sex proportioned births were census-centered using the formula:

B = .25 x births 1969 + .50 x births 1970 + .25 x births 1971

These census-centered births were substituted for the census count in the under 1 age group.

3) County total deaths in 1969, 1970, and 1971 were compared to the sum of state male and female state deaths in these years. The respective totals did not match. An adjustment was made, amounting to a total of 6 over the 3 years.

4) County total deaths were census-centered using the same weights as in the above formula.

5) State deaths by age, sex, and race were reported in a single year of age and aggregated into 5-year intervals, 5-9, 10-14,...,80-84, and 85 and older.

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State deaths by age, sex, and race were census-centered using the same weights noted in formula 2.

6) Due to the absence of deaths in some counties or in various age intervals and the fact that zero values can not be used in calculating death rates, a value of .01 was substituted. This substitution permits computation but is not large enough to introduce any errors in life table functions.

SRs-1980-Data and Modifications

In addition to the 1980 population counts by county, age, sex, and race discussed earlier, vital events data were required. A file containing the following: (a) total births for each county and the state for the years 1979, 1980, and 1981; (b) state and county deaths by age, sex, and race for the years 1979, 1980, and 1981; and (c) infant deaths by sex and race for each county, was obtained from the State Data Center, Nashville (1984). The birth data were adjusted in the same manner as the data for 1969, 1970, and 1971. The census-centered births were substituted for the under-one interval by sex and race in each county. The age and sex specific deaths also were census-centered. Sex-specific infants deaths were census-centered and substituted for the under-one interval in the appropriate death distributions by age and sex.

As in 1970, where an age interval showed zero deaths, a value of .01 was substituted for computational reasons.

SRs - Procedure

The appropriate population count, births, and deaths by age, sex, and race were used to construct the life tables for each county, 1970 and 1980. The age distribution for the life table is: 1, 1-4, 5-9 . . . 80-84, 85 and over. L_x and T_x values from the life tables were used to calculate SRs. Except for the first two age intervals and the last age interval, SRs were obtained by dividing the L_x value for an age interval into the L_{x+10} age interval. For example:

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$$SR_{10-14} = L_{20-24} / L_{0-14}$$

The first three L_x intervals in the life table are used to obtain SRs for those born during the 10-year survival period, or those 0-4 and 5-9 at the end of the period. The SR_{0-4} was obtained by adding the L_0 and L_{1-4} and dividing by the quantity 5 x 100,000 (Table Radix). The SR_{5-9} was obtained by dividing L_{5-9} by 500,000. The formulas are:

$$SR_{0-4} = L_0 + L_{1=4}/5* \text{ Radix}$$

$$SR_{5-9} = L_{5-9}/5* \text{ Radix}$$

The terminal SR for age group 75 and over was obtained by dividing the T_{75-79} by the T_{65-69} since T_x represents the persons living in the interval and all subsequent intervals.

SRs are an essential component in the population projections. 1970 SRs are used in obtaining 10-year net migration rates; 1980 SRs are the mortality component and are used to age the population 10 years to 1990 and again to 2000. Use of the 1980 SRs over the projection periods assumes there will be little change in the pattern of dying in the future. Increases or decreases in mortality are plausible given the changing role of government in social welfare and the lower levels of federal spending on health care. Future improvements, however, will probably be slight and principally affect already low infant mortality and early childhood deaths and slightly lengthen an already long life expectancy.

B.   Net Migration Rates

Net migration rates express the balance between in and out migration in each age category. NMRs are calculated for the 10-year period 1970-1980 using the forward survival technique. NMRs were calculated for the 1970 population and for those born during the decade. Inter-decade births are used to calculate NMRs for those who will be in the age intervals 0-4 and 5-9 in 1980.

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In addition to the previously mentioned age-sex specific population counts

for 1970 and 1980, the procedure required registered births for each county for

each year of the decade 1970-1980. Birth data for the years 1970-1983 were

obtained from the Tennessee Vital Statistic Series (State of Tennessee

Department of Public Health, 1970-1983).

The census age distributions for 1970 and 1980 were aggregated by

five-year intervals adding the under 1 and 1-4 intervals and collapsing the

intervals 75-79, 80-84, and 85 plus. The age distribution thus becomes 0-4,

5-9,...70-74, 75 and over.

The birth data were grouped into two intervals, births April 1, 1970 -

births April 1, 1975, and births April 1, 1975 - births April 1, 1980. The

groupings were obtained by applying the following formulas: births 1970-1975 =

(.75 X births 1970) + births, 1971, 1972, 1973, 1974) + (.25 X births 1980).

After dividing births into two intervals they were proportioned into male

and female births using a sex ratio at birth of 105:100 for each county.

Having obtained the necessary population data, NMRs were calculated. The

births and 1970 age distribution were subjected to the 1970-1980 SRs, thus

obtaining an estimated age-sex-race population distribution for 1980. The

estimated 1980 population was subtracted from the observed 1980 census

population. The residual is the amount of net migration with the sign

indicating whether the net migration was in (+) or out (-) for each age interval.

NMRs were then calculated on a percentage basis by dividing the amount of net

migration by the 1980 estimated population for each age interval. The sign of

the NMRs is the sign of net estimate. The general formula for 10 year NMRs is:

$$\frac{\text{Estimated Net Migration}}{\text{Estimated Population}_x}$$

Each county has age-sex-race specific schedules of 10-years NMRs. The age

distribution of the NMRs is: first half interdecade births, second half interdecade births, 0-4, 5-9, . . . 70-74, 75 and over.

In the face of a fairly stable mortality pattern and low levels of fertility, internal migration has become a more important component in Tennessee's population growth. Tennessee, on the fringe of the sunbelt, has become a destination of net in-migration from the snowbelt and return migrants between 1970 and 1980. Migration is probably the one component most sensitive to changes in the economy. If the health of the economy rebounds fully from the 1982 recession in the next decade, then net migration could remain at the 1970-1980 levels or perhaps increase. Given the current economic indicators pointing to a sluggish recovery at below the levels of prosperity enjoyed during the 1970s, (+) net migration is expected to decline, if not reverse (becomes -). Two assumptions, therefore, were used in this series. First, the calculated NMRs for 1970-1980 were taken as a given and projected forward assuming no change. This scenario is treated as the most optimistic for growth. Second, the calculated NMRs for 1970-1980 were decreased by 70%. This scenario is taken as the low estimate and probably the more realistic of the two. The results generated under the second assumption yield a state population figure that is within 1% of the valued generated by the Center of Business and Economic Research using the Tennessee Econometric Model (Dubonis, Price, and Vickers, 1985).

C.   Population Projections 1980 to 1990

The 10-year projection is performed in two steps. First, births are estimated during the projection decade to obtain counts for those who will be ages 0-4 and 5-9 in 1990. Birth projections are based upon county GFRs for 1980 and modified state GFRs 1980, 1980-1985, and 1985-1990. The projected births are subjected to appropriate SRs and NMRs to obtain the final projected count.

Second, the SRs and NMRs are applied to the 1980 population. Each age-sex-race specific cohort is aged 10 years by applying the 1980 10-year SRs to determine the surviving population in 1990. The projected population is then adjusted by applying 10-year NMRs and adding the signed estimate of net migration to the projected survivors. The 1980 age distribution is: births 1980-1985; births 1985-1990; 0-4, 5-9, . . . 70-74, 75+. The 1990 age distribution is: 0-4, 5-9, . . . 80-84, and 85+.

A critical component of the estimation procedure centers on estimating births which occur during the decade 1980-1990. The procedure followed may be found in Technical Paper 39, Guide for Local Area Projections (U.S. Bureau of Census, 1977b). Birth projections are derived by estimating five-year county GFRs and applying them to estimates of the mid-five year (1983 and 1988) female populations ages 15-44.

County general fertility ratios were obtained by calculating the ratio of 1980 county GFRs to the State 1980 GFR. Projected county GFRs for each half of the decade were obtained by multiplying the 1980 GFRs against the estimated five-year state projected GFRs. The female population 15-44 estimated for 1983 and 1988 was obtained through linear interpolation of the 1980 and 1990 projected female population ages 15-44. The projected county GFRs were then multiplied by the 1983 and 1988 estimates to obtain total births; since five-year intervals were used, the result was multiplied by 5. Each half was then proportioned into male and female births using the sex ratio of 105:100. The proportioned births were then multiplied by appropriate SRs and NMRs to obtain the projected counts for those ages 0-4 and 5-9 in 1990.

The projections for ages 10-14 . . . 80-84, 85+ were obtained by multiplying the 1980 population counts by their appropriate SRs. The effects of net migration were obtained by applying the NMRs to the expected or surviving

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1990 population and adding the signed amount to the expected 1990 population. The projected intervals obtained in the first step, ages 0-4 and 5-9 are appended to the 10-14 . . . 80-84, 85+ projection obtained in the second step to yield the projected age distribution for 1990: 0-4, 5-9 . . . 80-84, 85+. Two projections were made: The component rates used in this projections appear in Table 1. Variations in the net migration component were obtained by adjusting net migration a specified amount after applying the calculated NMRs; net migration was specified to show no change and to decrease 70 percent. The various values of the component rates provides sets of assumptions for each projection series.

D.   Projections 1990 to 2000

The year 2000 values were obtained by projecting the 1990 estimated population 10 years. The only procedural difference in the 2000 calculations was in determining the average number of births in 1990 used to compute county GFRs. The 1990 average birth values were obtained by dividing the projected 1985-1990 total births by 5 for each county.

The series projections were then obtained by projecting interdecade births (1990-2000) to obtain values for those ages 0-4 and 5-9 in 2000, in the same manner as for 1990. The projections for those ages 10-14 and beyond in 2000 were obtained by applying SRs and NMRs for each series to the 1990 projected age distributions. The two sets of intervals were then joined to form the 2000 age distribution: 0-4, 5-9, . . . 80-84, 85+.

Given the volatility which can occur in migration as well as fertility, the 2000 projections are more tenuous than the 1990 projections. The farther the projected year is from the base year of projection and initial component rate calculations, the greater the caution that should be exercises in interpreting the forecasts.

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A Precautionary Note

I.   In certain counties for non-whites, there were either: (a) insufficient
population counts in selected age-sex categories, or (b) insufficient numbers of
births or deaths recorded to generate meaningful rates for use in the projection.
The following is a list of counties deleted from the non-white population
projections:

Benton	Houston	Polk
Bledsoe	Humphreys	Putman
Campbell	Jackson	Rhea
Cannon	Jefferson	Scott
Carter	Johnson	Smith
Cheatham	Lawrence	Sequatchie
Clairborne	Lewis	Sevier
Clay	Loudon	Steward
Cocke	McNary	Trousdale
Cumberland	Macon	Union
Decatur	Marion	Van Buren
DeKalb	Marshall	Warren
Dickson	Meigs	Wayne
Fentress	Moore	Weakly
Grainger	Monroe	White
Hancock	Morgan	
Hardin	Overton	
Hawkins	Perry	
Hickman	Pickett	

II.   These projections do not adjust for populations in group quarters. These
data are available on Summary Tape File 4 of the U.S. Census Bureau (1980). The
majority of these populations reside in homes for the aged, correctional
institutions, and college dormitories. For a discussion of how to handle this
problem see Irwin and Kalbach (1964).

Projections by Single Years of Age

To generate projected populations for each of Tennessee's 95 counties by single years of age, sex, and race, we simply disaggregated the five-year age groups. We used the osculatory formula for interpolation called "Grabill's weighted moving average of Sprague co-efficients." For a discussion of how the multipliers are applied, see Shryock and Siegel (1975: 699-702).

Projections for SMAs

Once the projections were obtained for the 95 counties of Tennessee, it was a straight-forward exercise in aggregation to produce projections for the SMAs. Since counties are the logical units comprising SMAs, we merely identified each Tennessee county in a given SMA and aggregated the appropriate values needed to calculate the populations and component rates.

The SMAs' values for non-whites are not included since each SMA has one or more counties with inadequate data. The life table functions derived from these data were so unstable that neither the mortality component nor the net migration component proved to be reasonable. Thus, any projections generated using these non-white data would be questionable.

Table 1 Series 1-2

Component Rate Assumptions = Survival Rates (SRS),
Met Migration Rates (NMRs) and
General Fertility Rates (GRSs)

	1	2
SR's	SR's	SR's
	1980	1980
NMR's	NMR	-70%
% adjusted	1970-1980	
1980 GFR	62.7	62.7
1980-1985 GFR	62.7	62.7
1985-1990 GFR	62.7	62.7

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NOTE ON SEVENTH, EIGHTH, AND NINTH DISTRICT

These projections are based on county populations.

Districts are aggregated from appropriate county data. Shelby

County is part of three districts, the Seventh, Eighth, and Ninth.

Figures for these districts can be obtained by the following

percentages: 65.20% of the Shelby County population is in the

Ninth District, 24.85% in the Seventh District, and 9.95% in the

Eighth District.

To obtain the counts for the Ninth District, multiply .6520

against Shelby County projected populations in 1980, in 1990, and

in 2000 to obtain estimates.

To obtain the counts for the Seventh District, multiply

.2485 against the Shelby County population in 1980, in 1990, and

in 2000, then add products to the appropriate distribution of the

Seventh District printout.

To obtain the counts for the Eighth District, multiply .0995

against the Shelby County population in 1980, in 1990, and in

2000, then add products to the appropriate distribution of the

Eighth District printout.

STATE OF TENNESSEE

TOTAL : POPULATION 1980, POPULATION PROJECTIONS 1990, 2000

	1980 POPULATION				1990 POPULATION PROJECTION				2000 POPULATION PROJECTION		
AGE	FEMALES	MALES	TOTAL	AGE	FEMALES	MALES	TOTAL	AGE	FEMALES	MALES	TOTAL
0 TO 4	15909.	16712.	32621.	0 TO 4	17642.	18471.	36113.	0 TO 4	18130.	18980.	37110.
5 TO 9	19415.	20194.	39609.	5 TO 9	16706.	17446.	34153.	5 TO 9	18188.	18995.	37183.
10 TO 14	20160.	21433.	41593.	10 TO 14	16422.	17320.	33742.	10 TO 14	18264.	19193.	37457.
15 TO 19	22256.	22785.	45041.	15 TO 19	20084.	20708.	40792.	15 TO 19	17317.	17927.	35244.
20 TO 24	21506.	21215.	42721.	20 TO 24	20608.	21316.	41923.	20 TO 24	16829.	17254.	34084.
25 TO 29	20383.	20150.	40533.	25 TO 29	22534.	22703.	45237.	25 TO 29	20377.	20650.	41028.
30 TO 34	20330.	20007.	40337.	30 TO 34	22004.	22474.	44477.	30 TO 34	21160.	22700.	43860.
35 TO 39	17643.	18098.	35741.	35 TO 39	20995.	20701.	41696.	35 TO 39	23228.	23352.	46580.
40 TO 44	15348.	15291.	30639.	40 TO 44	20812.	20461.	41272.	40 TO 44	22551.	23008.	45559.
45 TO 49	14512.	13917.	28429.	45 TO 49	17992.	18278.	36269.	45 TO 49	21437.	20938.	42375.
50 TO 54	14150.	13705.	27855.	50 TO 54	15392.	14993.	30385.	50 TO 54	20884.	20079.	40964.
55 TO 59	14346.	12990.	27336.	55 TO 59	14360.	13074.	27434.	55 TO 59	17817.	17199.	35016.
60 TO 64	12534.	10866.	23400.	60 TO 64	13640.	12042.	25683.	60 TO 64	14865.	13206.	28071.
65 TO 69	10973.	9145.	20118.	65 TO 69	13250.	10429.	23680.	65 TO 69	13278.	10512.	23791.
70 TO 74	9171.	6578.	15749.	70 TO 74	10996.	7727.	18723.	70 TO 74	11966.	8568.	20534.
75 TO 79	6400.	4068.	10468.	75 TO 79	8737.	5604.	14341.	75 TO 79	10545.	6385.	16930.
80 TO 84	3775.	2153.	5928.	80 TO 84	6013.	3099.	9112.	80 TO 84	7211.	3645.	10856.
85 AND OVER	2941.	1358.	4299.	85 AND OVER	6145.	2713.	8858.	85 AND OVER	9787.	4102.	13889.
TOTAL	261752.	250665.	512417.	TOTAL	284331.	269561.	553892.	TOTAL	303835.	286695.	590530.

STATEMENTS EXECUTED= 125560

CORE USAGE   OBJECT CODE= 22744 BYTES,ARRAY AREA=   52744 BYTES,TOTAL AREA AVAILABLE= 423936 BYTES

DIAGNOSTICS   NUMBER OF ERRORS=   0, NUMBER OF WARNINGS=   4, NUMBER OF EXTENSIONS=   0

COMPILE TIME=   0.19 SEC,EXECUTION TIME=   2.05 SEC,   14.09.47   THURSDAY   23 MAY 85   WATFIV - MAR 1980 V2L0

        C$STOP

2ND District

STATE OF TENNESSEE

TOTAL   :   POPULATION 1980, POPULATION PROJECTIONS 1990, 2000

	1980 POPULATION				1990 POPULATION PROJECTION				2000 POPULATION PROJECTION		
AGE	FEMALES	MALES	TOTAL	AGE	FEMALES	MALES	TOTAL	AGE	FEMALES	MALES	TOTAL
0 TO 4	15895.	16810.	32705.	0 TO 4	18291.	19140.	37431.	0 TO 4	18598.	19461.	38059.
5 TO 9	17613.	18881.	36494.	5 TO 9	17253.	18117.	35370.	5 TO 9	18639.	19569.	38209.
10 TO 14	19222.	19871.	39093.	10 TO 14	16484.	17302.	33786.	10 TO 14	18973.	19698.	38672.
15 TO 19	22930.	23636.	46566.	15 TO 19	18532.	19692.	38224.	15 TO 19	18160.	18901.	37061.
20 TO 24	24847.	25742.	50589.	20 TO 24	20348.	20955.	41303.	20 TO 24	17469.	18251.	35720.
25 TO 29	22448.	22542.	44990.	25 TO 29	23235.	23812.	47047.	25 TO 29	18762.	19814.	38576.
30 TO 34	20167.	20415.	40582.	30 TO 34	24647.	26041.	50688.	30 TO 34	20296.	21359.	41655.
35 TO 39	16697.	16618.	33315.	35 TO 39	22991.	22962.	45953.	35 TO 39	23806.	24279.	48085.
40 TO 44	14115.	13557.	27672.	40 TO 44	20598.	20771.	41369.	40 TO 44	25148.	26451.	51599.
45 TO 49	13350.	12588.	25938.	45 TO 49	16785.	16571.	33356.	45 TO 49	23093.	22871.	45964.
50 TO 54	13844.	12636.	26480.	50 TO 54	13949.	13110.	27059.	50 TO 54	20356.	20085.	40441.
55 TO 59	14137.	12049.	26186.	55 TO 59	12912.	11598.	24510.	55 TO 59	16239.	15272.	31512.
60 TO 64	12611.	10309.	22920.	60 TO 64	13012.	10910.	23921.	60 TO 64	13129.	11331.	24460.
65 TO 69	11138.	8693.	19831.	65 TO 69	12711.	9579.	22290.	65 TO 69	11614.	9226.	20839.
70 TO 74	9277.	6275.	15552.	70 TO 74	10675.	7191.	17867.	70 TO 74	11000.	7592.	18592.
75 TO 79	7020.	4120.	11140.	75 TO 79	8636.	5002.	13637.	75 TO 79	9854.	5502.	15355.
80 TO 84	4339.	2143.	6482.	80 TO 84	5923.	2635.	8558.	80 TO 84	6832.	3024.	9856.
85 AND OVER	3299.	1341.	4640.	85 AND OVER	6644.	2544.	9188.	85 AND OVER	9621.	3416.	13037.
TOTAL	262949.	248226.	511175.	TOTAL	283626.	267933.	551558.	TOTAL	301589.	286102.	587692.

STATEMENTS EXECUTED=   77076

CORE USAGE   OBJECT CODE=   22744 BYTES,ARRAY AREA=   52744 BYTES,TOTAL AREA AVAILABLE=   423936 BYTES

DIAGNOSTICS   NUMBER OF ERRORS=   0, NUMBER OF WARNINGS=   4, NUMBER OF EXTENSIONS=   0

COMPILE TIME=   0.19 SEC,EXECUTION TIME=   1.26 SEC,   14.14.33   THURSDAY   23 MAY 85   WATFIV - MAR 1980 V2L0

        C$STOP

STATE OF TENNESSEE

TOTAL   :   POPULATION 1980, POPULATION PROJECTIONS 1990, 2000

1980 POPULATION				1990 POPULATION PROJECTION				2000 POPULATION PROJECTION			
AGE	FEMALES	MALES	TOTAL	AGE	FEMALES	MALES	TOTAL	AGE	FEMALES	MALES	TOTAL
0 TO 4	17714.	19187.	36901.	0 TO 4	20451.	21607.	42058.	0 TO 4	21108.	22302.	43411.
5 TO 9	19624.	20713.	40337.	5 TO 9	19286.	20218.	39504.	5 TO 9	20999.	22024.	43023.
10 TO 14	20310.	21229.	41539.	10 TO 14	18103.	19638.	37740.	10 TO 14	20911.	22122.	43033.
15 TO 19	22801.	23613.	46414.	15 TO 19	20015.	21040.	41054.	15 TO 19	19682.	20537.	40219.
20 TO 24	23270.	22009.	45279.	20 TO 24	20564.	20763.	41327.	20 TO 24	18349.	19221.	37570.
25 TO 29	22113.	21626.	43739.	25 TO 29	23234.	23783.	47017.	25 TO 29	20395.	21191.	41586.
30 TO 34	20643.	20486.	41129.	30 TO 34	24133.	23927.	48060.	30 TO 34	21390.	22623.	44013.
35 TO 39	17232.	16899.	34131.	35 TO 39	22612.	22042.	44655.	35 TO 39	23818.	24273.	48091.
40 TO 44	14755.	14319.	29074.	40 TO 44	20919.	20711.	41630.	40 TO 44	24436.	24168.	48605.
45 TO 49	14286.	13382.	27668.	45 TO 49	17256.	16808.	34064.	45 TO 49	22623.	21886.	44508.
50 TO 54	14560.	13499.	28059.	50 TO 54	14504.	13749.	28253.	50 TO 54	20560.	19862.	40422.
55 TO 59	14238.	12708.	26946.	55 TO 59	13822.	12275.	26097.	55 TO 59	16727.	15447.	32174.
60 TO 64	12279.	10370.	22649.	60 TO 64	13719.	11638.	25357.	60 TO 64	13703.	11877.	25580.
65 TO 69	10813.	8413.	19226.	65 TO 69	12804.	10037.	22841.	65 TO 69	12445.	9685.	22130.
70 TO 74	9242.	6176.	15418.	70 TO 74	10394.	7139.	17533.	70 TO 74	11613.	8011.	19624.
75 TO 79	6532.	3857.	10389.	75 TO 79	8308.	4848.	13156.	75 TO 79	9853.	5779.	15632.
80 TO 84	3908.	1878.	5786.	80 TO 84	5893.	2655.	8548.	80 TO 84	6653.	3067.	9719.
85 AND OVER	3162.	1204.	4366.	85 AND OVER	6281.	2393.	8674.	85 AND OVER	9461.	3421.	12881.
TOTAL	267482.	251568.	519050.	TOTAL	292299.	275270.	567569.	TOTAL	314725.	297497.	612221.

STATEMENTS EXECUTED=   89197

CORE USAGE   OBJECT CODE=   22744 BYTES,ARRAY AREA=   52744 BYTES,TOTAL AREA AVAILABLE=   423936   BYTES

DIAGNOSTICS   NUMBER OF ERRORS=   0, NUMBER OF WARNINGS=   4, NUMBER OF EXTENSIONS=   0

COMPILE TIME=   0.20 SEC,EXECUTION TIME=   1.46 SEC,   14.03.13   THURSDAY   23 MAY 85   WATFIV - MAR 1980 V2L0

C$STOP

4th District

STATE OF TENNESSEE

TOTAL   :   POPULATION 1980, POPULATION PROJECTIONS 1990, 2000

1980 POPULATION				1990 POPULATION PROJECTION				2000 POPULATION PROJECTION			
AGE	FEMALES	MALES	TOTAL	AGE	FEMALES	MALES	TOTAL	AGE	FEMALES	MALES	TOTAL
0 TO 4	17845.	19105.	36950.	0 TO 4	20849.	21979.	42827.	0 TO 4	22715.	23952.	46667.
5 TO 9	19894.	21172.	41066.	5 TO 9	19568.	20595.	40162.	5 TO 9	22201.	23365.	45566.
10 TO 14	21022.	22515.	43537.	10 TO 14	18798.	20165.	38963.	10 TO 14	21999.	23236.	45234.
15 TO 19	22958.	24107.	47065.	15 TO 19	20681.	21990.	42672.	15 TO 19	20345.	21399.	41744.
20 TO 24	20081.	20213.	40294.	20 TO 24	20740.	21737.	42477.	20 TO 24	18542.	19484.	38027.
25 TO 29	19133.	19150.	38283.	25 TO 29	22995.	23520.	46515.	25 TO 29	20747.	21526.	42273.
30 TO 34	18813.	18838.	37651.	30 TO 34	21279.	22030.	43309.	30 TO 34	21999.	23749.	45748.
35 TO 39	16973.	16606.	33579.	35 TO 39	20237.	20078.	40315.	35 TO 39	24346.	24673.	49019.
40 TO 44	14501.	14394.	28895.	40 TO 44	19545.	19517.	39062.	40 TO 44	22119.	22827.	44946.
45 TO 49	13302.	13109.	26411.	45 TO 49	17364.	16889.	34253.	45 TO 49	20723.	20428.	41151.
50 TO 54	13105.	12712.	25817.	50 TO 54	14596.	14137.	28733.	50 TO 54	19695.	19189.	38885.
55 TO 59	13712.	12361.	26073.	55 TO 59	13265.	12440.	25704.	55 TO 59	17335.	16035.	33370.
60 TO 64	12865.	11039.	23904.	60 TO 64	12875.	11439.	24313.	60 TO 64	14355.	12730.	27085.
65 TO 69	11471.	9677.	21148.	65 TO 69	12812.	10229.	23041.	65 TO 69	12391.	10299.	22690.
70 TO 74	9590.	7450.	17040.	70 TO 74	11234.	8059.	19294.	70 TO 74	11255.	8362.	19617.
75 TO 79	6886.	4654.	11540.	75 TO 79	9251.	5938.	15190.	75 TO 79	10341.	6300.	16640.
80 TO 84	4032.	2524.	6556.	80 TO 84	6377.	3530.	9907.	80 TO 84	7483.	3822.	11305.
85 AND OVER	3067.	1465.	4532.	85 AND OVER	6422.	2969.	9390.	85 AND OVER	10135.	4287.	14422.
TOTAL	259250.	251091.	510341.	TOTAL	288888.	277240.	566129.	TOTAL	318726.	305663.	624388.

STATEMENTS EXECUTED= 283133

CORE USAGE   OBJECT CODE=   22744 BYTES,ARRAY AREA=   52744 BYTES,TOTAL AREA AVAILABLE=   423936 BYTES

DIAGNOSTICS   NUMBER OF ERRORS=   0, NUMBER OF WARNINGS=   4, NUMBER OF EXTENSIONS=   0

COMPILE TIME=   0.20 SEC,EXECUTION TIME=   4.73 SEC,   15.22.43   THURSDAY   23 MAY 85   WATFIV - MAR 1980 V2L0

     C$STOP

5th District

STATE OF TENNESSEE

TOTAL : POPULATION 1980, POPULATION PROJECTIONS 1990, 2000

	1980 POPULATION				1990 POPULATION PROJECTION				2000 POPULATION PROJECTION		
AGE	FEMALES	MALES	TOTAL	AGE	FEMALES	MALES	TOTAL	AGE	FEMALES	MALES	TOTAL
0 TO 4	17422.	18101.	35523.	0 TO 4	19366.	20117.	39483.	0 TO 4	18483.	19209.	37693.
5 TO 9	17421.	17869.	35290.	5 TO 9	18732.	19362.	38093.	5 TO 9	18909.	19546.	38455.
10 TO 14	17399.	18001.	35400.	10 TO 14	16873.	17519.	34392.	10 TO 14	18787.	19499.	38286.
15 TO 19	23412.	23555.	46967.	15 TO 19	17555.	17826.	35381.	15 TO 19	18875.	19314.	38189.
20 TO 24	28415.	27272.	55687.	20 TO 24	18352.	18410.	36762.	20 TO 24	17804.	17912.	35716.
25 TO 29	25896.	25786.	51682.	25 TO 29	24184.	24109.	48293.	25 TO 29	18139.	18243.	36382.
30 TO 34	20923.	21137.	42060.	30 TO 34	27510.	27294.	54804.	30 TO 34	17864.	18502.	36365.
35 TO 39	15850.	15689.	31539.	35 TO 39	24970.	24497.	49467.	35 TO 39	23362.	22976.	46338.
40 TO 44	13871.	13130.	27001.	40 TO 44	20337.	20107.	40444.	40 TO 44	26725.	25973.	52698.
45 TO 49	13966.	12758.	26724.	45 TO 49	15473.	14861.	30334.	45 TO 49	24367.	23178.	47545.
50 TO 54	14313.	12997.	27310.	50 TO 54	13356.	12162.	25519.	50 TO 54	19580.	18617.	38198.
55 TO 59	14110.	12122.	26232.	55 TO 59	13234.	11359.	24593.	55 TO 59	14665.	13233.	27899.
60 TO 64	12284.	9779.	22063.	60 TO 64	13248.	10879.	24127.	60 TO 64	12373.	10187.	22560.
65 TO 69	10962.	7966.	18928.	65 TO 69	12532.	9274.	21806.	65 TO 69	11757.	8699.	20457.
70 TO 74	9499.	6063.	15562.	70 TO 74	10322.	6696.	17018.	70 TO 74	11129.	7447.	18577.
75 TO 79	7209.	3774.	10983.	75 TO 79	8424.	4707.	13131.	75 TO 79	9631.	5477.	15108.
80 TO 84	4435.	1953.	6388.	80 TO 84	6132.	2849.	8980.	80 TO 84	6664.	3143.	9808.
85 AND OVER	3527.	1330.	4857.	85 AND OVER	6944.	2512.	9457.	85 AND OVER	9842.	3585.	13426.
TOTAL	270914.	249282.	520196.	TOTAL	287545.	264539.	552084.	TOTAL	298557.	274741.	573697.

STATEMENTS EXECUTED=   28592

CORE USAGE   OBJECT CODE=   22744 BYTES,ARRAY AREA=   52744 BYTES,TOTAL AREA AVAILABLE=   423936   BYTES

DIAGNOSTICS   NUMBER OF ERRORS=   0, NUMBER OF WARNINGS=   4, NUMBER OF EXTENSIONS=   C

COMPILE TIME=   0.19 SEC,EXECUTION TIME=   0.45 SEC,   13.41.34   MONDAY   20 MAY 85   WATFIV - MAR 1980 V2L0

        C$STOP

6th District

TOTAL   :   POPULATION 1980, POPULATION PROJECTIONS 1990, 2000

1980 POPULATION				1990 POPULATION PROJECTION				2000 POPULATION PROJECTION			
AGE	FEMALES	MALES	TOTAL	AGE	FEMALES	MALES	TOTAL	AGE	FEMALES	MALES	TOTAL
0 TO 4	17773.	19261.	37034.	0 TO 4	23476.	24783.	48258.	0 TO 4	28892.	30499.	59391.
5 TO 9	19619.	21159.	40778.	5 TO 9	21028.	22163.	43191.	5 TO 9	26857.	28297.	55154.
10 TO 14	20714.	21989.	42703.	10 TO 14	19750.	21396.	41146.	10 TO 14	26223.	27666.	53889.
15 TO 19	23789.	24525.	48314.	15 TO 19	21657.	23183.	44840.	15 TO 19	23221.	24309.	47530.
20 TO 24	22003.	22127.	44130.	20 TO 24	22034.	22980.	45014.	20 TO 24	21041.	22406.	43447.
25 TO 29	20577.	20470.	41047.	25 TO 29	25264.	25436.	50700.	25 TO 29	23179.	24153.	47332.
30 TO 34	20764.	20474.	41238.	30 TO 34	24379.	25010.	49389.	30 TO 34	25034.	26982.	52016.
35 TO 39	18099.	18041.	36140.	35 TO 39	23141.	22817.	45957.	35 TO 39	28472.	28504.	56976.
40 TO 44	14856.	15194.	30050.	40 TO 44	22625.	22287.	44912.	40 TO 44	26487.	27114.	53601.
45 TO 49	13115.	13509.	26624.	45 TO 49	19329.	19316.	38645.	45 TO 49	24673.	24377.	49049.
50 TO 54	12479.	12314.	24793.	50 TO 54	15290.	15476.	30766.	50 TO 54	23318.	22713.	46031.
55 TO 59	12174.	11739.	23913.	55 TO 59	13230.	13116.	26346.	55 TO 59	19546.	18820.	38366.
60 TO 64	11299.	10003.	21302.	60 TO 64	12290.	11176.	23466.	60 TO 64	15086.	14120.	29206.
65 TO 69	10189.	8488.	18677.	65 TO 69	11584.	9835.	21419.	65 TO 69	12604.	11034.	23638.
70 TO 74	8369.	6616.	14985.	70 TO 74	10103.	7482.	17585.	70 TO 74	10991.	8376.	19367.
75 TO 79	6248.	4053.	10301.	75 TO 79	8377.	5260.	13637.	75 TO 79	9528.	6112.	15640.
80 TO 84	3826.	2215.	6041.	80 TO 84	5668.	3082.	8750.	80 TO 84	6854.	3507.	10361.
85 AND OVER	3064.	1526.	4590.	85 AND OVER	6244.	2834.	9079.	85 AND OVER	9650.	4082.	13732.
TOTAL	258957.	253703.	512660.	TOTAL	305468.	297633.	603100.	TOTAL	361652.	353073.	714726.

STATEMENTS EXECUTED=   210407

CORE USAGE   OBJECT CODE=   22744 BYTES,ARRAY AREA=   52744 BYTES,TOTAL AREA AVAILABLE=   423936   BYTES

DIAGNOSTICS   NUMBER OF ERRORS=   0, NUMBER OF WARNINGS=   4, NUMBER OF EXTENSIONS=   0

COMPILE TIME=   0.20 SEC,EXECUTION TIME=   3.49 SEC,   14.53.38   THURSDAY   23 MAY 85   WATFIV - MAR 1980 V2L0

    C$STOP

7th District

TOTAL   :   POPULATION 1980, POPULATION PROJECTIONS 1990, 2000

1980 POPULATION				1990 POPULATION PROJECTION				2000 POPULATION PROJECTION			
AGE	FEMALES	MALES	TOTAL	AGE	FEMALES	MALES	TOTAL	AGE	FEMALES	MALES	TOTAL
0 TO 4	12433.	13305.	25738.	0 TO 4	15482.	16284.	31765.	0 TO 4	18034.	18968.	37002.
5 TO 9	12959.	13318.	26277.	5 TO 9	14374.	14922.	29296.	5 TO 9	17274.	17932.	35206.
10 TO 14	13393.	14022.	27415.	10 TO 14	13186.	14103.	27290.	10 TO 14	16475.	17320.	33796.
15 TO 19	15461.	16557.	32018.	15 TO 19	13685.	14119.	27804.	15 TO 19	15258.	15894.	31152.
20 TO 24	14610.	17207.	31817.	20 TO 24	13708.	14772.	28481.	20 TO 24	13663.	15165.	28828.
25 TO 29	13199.	13692.	26891.	25 TO 29	15888.	16127.	32015.	25 TO 29	14139.	13800.	27939.
30 TO 34	12149.	12492.	24641.	30 TO 34	15556.	17194.	32750.	30 TO 34	14686.	15356.	30042.
35 TO 39	10386.	10332.	20718.	35 TO 39	14132.	14422.	28554.	35 TO 39	17020.	17055.	34076.
40 TO 44	8886.	9066.	17952.	40 TO 44	12822.	13295.	26118.	40 TO 44	16421.	18337.	34758.
45 TO 49	8324.	8386.	16710.	45 TO 49	10760.	10685.	21445.	45 TO 49	14633.	14910.	29543.
50 TO 54	8055.	7925.	15980.	50 TO 54	9000.	8956.	17956.	50 TO 54	12984.	13134.	26118.
55 TO 59	7918.	7353.	15271.	55 TO 59	8309.	7893.	16201.	55 TO 59	10756.	10067.	20824.
60 TO 64	7634.	6290.	13924.	60 TO 64	7845.	7007.	14852.	60 TO 64	8763.	7938.	16701.
65 TO 69	6841.	5918.	12759.	65 TO 69	7343.	6017.	13360.	65 TO 69	7715.	6483.	14198.
70 TO 74	5944.	4793.	10737.	70 TO 74	6804.	4543.	11347.	70 TO 74	7000.	5063.	12063.
75 TO 79	4266.	3033.	7299.	75 TO 79	5538.	3567.	9105.	75 TO 79	5957.	3628.	9585.
80 TO 84	2620.	1586.	4206.	80 TO 84	4015.	2184.	6199.	80 TO 84	4596.	2077.	6673.
85 AND OVER	2105.	1077.	3182.	85 AND OVER	4193.	2029.	6222.	85 AND OVER	6419.	2782.	9201.
TOTAL	167183.	166352.	333535.	TOTAL	192639.	188120.	380759.	TOTAL	221794.	215910.	437704.

STATEMENTS EXECUTED=   186165

CORE USAGE   OBJECT CODE=   22744 BYTES,ARRAY AREA=   52744 BYTES,TOTAL AREA AVAILABLE=   423936 BYTES

DIAGNOSTICS   NUMBER OF ERRORS=   0, NUMBER OF WARNINGS=   4, NUMBER OF EXTENSIONS=   0

COMPILE TIME=   0.19 SEC,EXECUTION TIME=   3.08 SEC,   14.39.45   THURSDAY   23 MAY 85   WATFIV - MAR 1980 V2L0

        C$STOP

8th District

STATE OF TENNESSEE

TOTAL :   POPULATION 1980, POPULATION PROJECTIONS 1990, 2000

	1980 POPULATION				1990 POPULATION PROJECTION				2000 POPULATION PROJECTION		
AGE	FEMALES	MALES	TOTAL	AGE	FEMALES	MALES	TOTAL	AGE	FEMALES	MALES	TOTAL
0 TO 4	14424.	15148.	29572.	0 TO 4	15859.	16553.	32412.	0 TO 4	16460.	17183.	33643.
5 TO 9	14941.	15997.	30938.	5 TO 9	15050.	15779.	30829.	5 TO 9	16256.	17039.	33295.
10 TO 14	16037.	16804.	32841.	10 TO 14	14759.	15482.	30241.	10 TO 14	16239.	16937.	33176.
15 TO 19	18592.	18854.	37446.	15 TO 19	15378.	16222.	31600.	15 TO 19	15501.	16011.	31513.
20 TO 24	17114.	16858.	33972.	20 TO 24	15833.	16305.	32138.	20 TO 24	14611.	15028.	29638.
25 TO 29	15180.	15244.	30424.	25 TO 29	17959.	17992.	35951.	25 TO 29	14900.	15521.	30421.
30 TO 34	14250.	14160.	28410.	30 TO 34	17244.	17314.	34558.	30 TO 34	16043.	16834.	32877.
35 TO 39	11960.	11849.	23809.	35 TO 39	15542.	15505.	31047.	35 TO 39	18393.	18309.	36702.
40 TO 44	10530.	10141.	20671.	40 TO 44	14607.	14500.	29107.	40 TO 44	17675.	17740.	35415.
45 TO 49	10162.	9500.	19662.	45 TO 49	12128.	11944.	24072.	45 TO 49	15752.	15628.	31379.
50 TO 54	10495.	9752.	20247.	50 TO 54	10528.	9845.	20373.	50 TO 54	14594.	14080.	28674.
55 TO 59	10956.	9691.	20647.	55 TO 59	9892.	8814.	18706.	55 TO 59	11817.	11103.	22920.
60 TO 64	11034.	8973.	20007.	60 TO 64	10050.	8460.	18509.	60 TO 64	10086.	8547.	18633.
65 TO 69	10725.	8838.	19563.	65 TO 69	10100.	7791.	17891.	65 TO 69	9111.	7077.	16187.
70 TO 74	9325.	6885.	16210.	70 TO 74	9507.	6362.	15869.	70 TO 74	8656.	5994.	14650.
75 TO 79	6959.	4476.	11435.	75 TO 79	8336.	5249.	13585.	75 TO 79	7853.	4620.	12473.
80 TO 84	4256.	2384.	6640.	80 TO 84	6026.	3120.	9147.	80 TO 84	6128.	2883.	9011.
85 AND OVER	3451.	1539.	4990.	85 AND OVER	6690.	2904.	9595.	85 AND OVER	9624.	3907.	13531.
TOTAL	210391.	197093.	407484.	TOTAL	225488.	210140.	435628.	TOTAL	239698.	224440.	464138.

STATEMENTS EXECUTED= 174044

CORE USAGE   OBJECT CODE= 22744 BYTES, ARRAY AREA=   52744 BYTES, TOTAL AREA AVAILABLE= 423936 BYTES

DIAGNOSTICS   NUMBER OF ERRORS=   0, NUMBER OF WARNINGS=   4, NUMBER OF EXTENSIONS=   0

COMPILE TIME=   0.20 SEC, EXECUTION TIME=   2.88 SEC,   14.28.45   THURSDAY   23 MAY 85   WATFIV - MAR 1980 V2L0

C$STOP

To be subdivided, see note on technique to use.

SHELBY   COUNTY

TOTAL   :   POPULATION 1980, POPULATION PROJECTIONS 1990, 2000

1980 POPULATION

AGE	FEMALES	MALES	TOTAL
0 TO 4	31219.	32797.	64016.
5 TO 9	31713.	32797.	64510.
10 TO 14	31401.	32507.	63908.
15 TO 19	36482.	40349.	76831.
20 TO 24	41075.	39646.	80721.
25 TO 29	39236.	38383.	77619.
30 TO 34	32388.	32163.	64551.
35 TO 39	24269.	23487.	47756.
40 TO 44	20690.	18566.	39256.
45 TO 49	19912.	17692.	37604.
50 TO 54	20445.	18326.	38771.
55 TO 59	19379.	17159.	36538.
60 TO 64	16036.	13493.	29529.
65 TO 69	13897.	10355.	24252.
70 TO 74	11630.	7479.	19109.
75 TO 79	9204.	4862.	14066.
80 TO 84	5484.	2503.	7987.
85 AND OVER	4434.	1736.	6170.
TOTAL	408894.	384300.	793194.

1990 POPULATION PROJECTION

AGE	FEMALES	MALES	TOTAL
0 TO 4	34850.	36409.	71259.
5 TO 9	33480.	34810.	68290.
10 TO 14	30416.	31981.	62397.
15 TO 19	31137.	32872.	64009.
20 TO 24	31707.	32098.	63805.
25 TO 29	37133.	39467.	76599.
30 TO 34	40300.	38941.	79240.
35 TO 39	37915.	36681.	74596.
40 TO 44	31308.	30614.	61922.
45 TO 49	23333.	22224.	45557.
50 TO 54	19617.	17063.	36680.
55 TO 59	18335.	15593.	33928.
60 TO 64	18225.	15042.	33266.
65 TO 69	16462.	12630.	29093.
70 TO 74	12689.	8600.	21289.
75 TO 79	10042.	5386.	15428.
80 TO 84	6809.	2797.	9606.
85 AND OVER	8244.	2841.	11085.
TOTAL	442000.	416049.	858050.

2000 POPULATION PROJECTION

AGE	FEMALES	MALES	TOTAL
0 TO 4	33499.	34998.	68496.
5 TO 9	34146.	35502.	69648.
10 TO 14	33953.	35503.	69456.
15 TO 19	32872.	34890.	67761.
20 TO 24	30712.	31579.	62291.
25 TO 29	31692.	32153.	63846.
30 TO 34	31108.	31527.	62636.
35 TO 39	35882.	37717.	73599.
40 TO 44	38956.	37065.	76020.
45 TO 49	36453.	34709.	71161.
50 TO 54	29684.	28135.	57819.
55 TO 59	21485.	19588.	41073.
60 TO 64	17487.	14005.	31492.
65 TO 69	15576.	11478.	27053.
70 TO 74	14421.	9587.	24008.
75 TO 79	11896.	6569.	18466.
80 TO 84	7429.	3217.	10646.
85 AND OVER	10819.	3442.	14261.
TOTAL	468069.	441663.	909732.