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## 1980 Population Projections for South Dakota

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E. T. Butler

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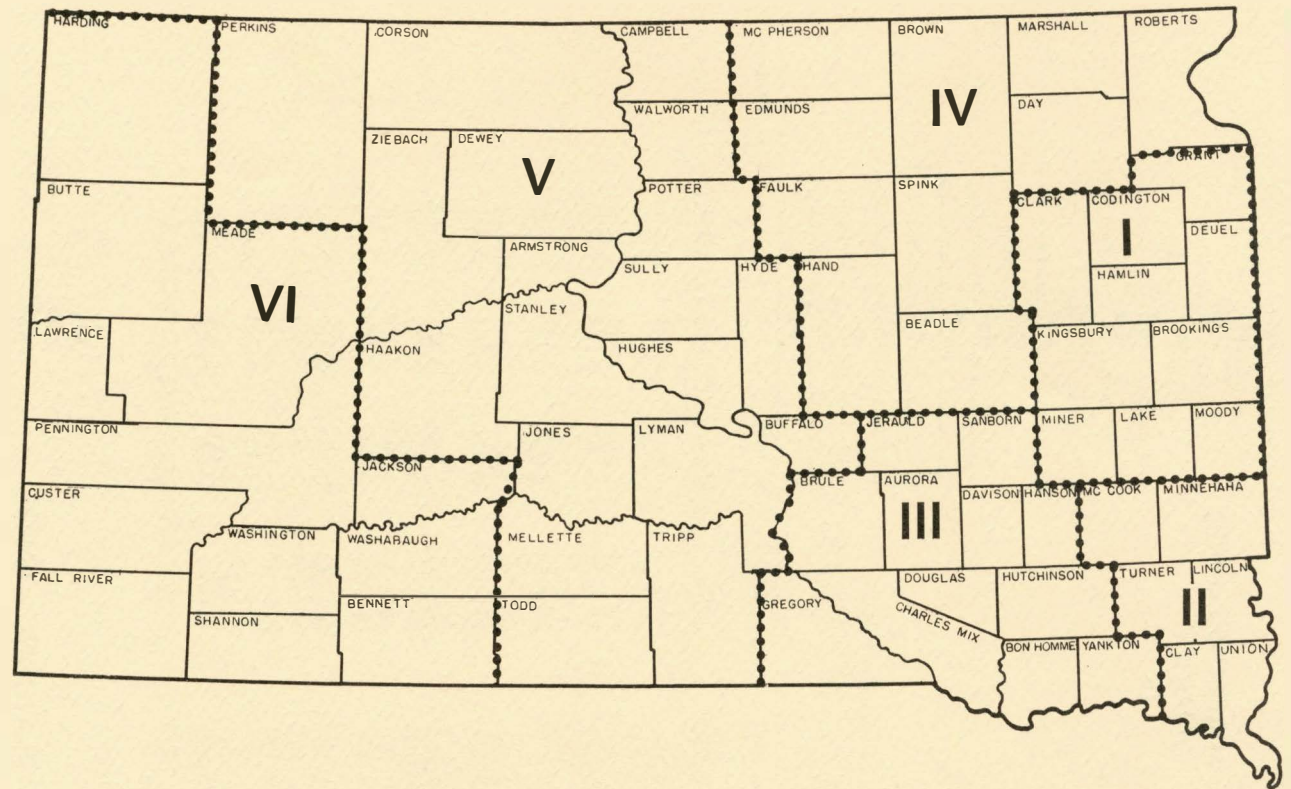
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# 1980 Population Projections for South Dakota

Bulletin 619 ● March 1974  
1970 Population Series Report No. 6  
Rural Sociology Department  
Agricultural Experiment Station  
South Dakota State University, Brookings



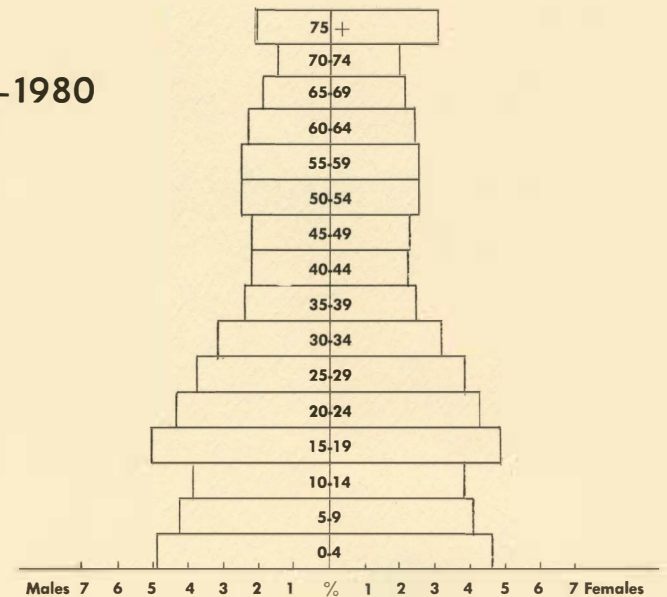
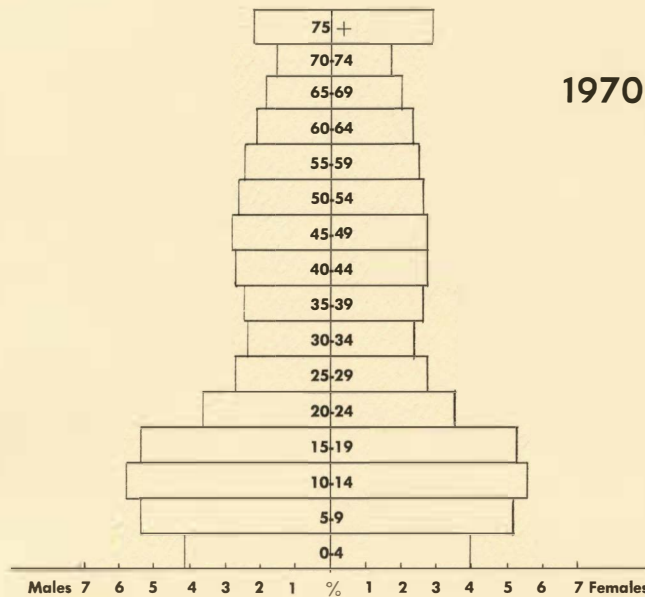
# South Dakota Planning Districts



South Dakota's population in 1980 is projected at 627,071, a decrease of 38,436 or 6%. Projections indicate there will be 22,972 fewer males and 15,464 fewer females. The sex distribution for the State will also change. There were 5,441 more females than males in 1970 and by 1980 projections indicate a total of 12,949 more females than males.

Furthermore, the projections indicate that the State will experience a loss of 36,210 in the number of children under 15, a gain of 16,602 in young adults age 15-34, a loss of 19,387 in the age group 35-64, and a small gain of 559 in the number of persons 65 and over. Some counties and Planning Districts lose population and others gain in these projections. Unfold this publication for the data in graphic and tabular form.

1970 - SOUTH - 1980  
DAKOTA



## 1980 POPULATION PROJECTIONS FOR SOUTH DAKOTA

by  
Robert T. Wagner, Assistant Professor  
and  
Eugene T. Butler, Jr., Graduate Research Assistant  
Department of Rural Sociology

### Introduction

South Dakota's population declined 15,007 persons from 1960 to 1970, a loss of 2.2 percent. With this loss, what about South Dakota's future population, particularly in 1980? Various agencies have projected population growth for South Dakota, generally of an optimistic nature. The Upper Midwest Council in January, 1973 projected a 1985 population of 707,000 for South Dakota, 6 percent over 1970. Many projections are not based on changes in age and sex composition of the population, thus not reflecting in detail the changes in numbers of births, deaths, and migrants for each age segment for both males and females. Such unrefined projections may lead to inflationary estimates of growth. A study by the Minnesota Senate research staff, for example, indicates some inflationary Minnesota population projections resulted because birth rates were estimated too high. This suggests the need for more refined projections based on age and sex.

Projections by age and sex serve another valuable purpose: local leaders, planners, and citizens of South Dakota need estimates as to the future size of each age group for both men and women, not just the total number of people. Persons dealing with community issues and programs would find projections helpful in understanding how anticipated numerical changes in age and sex of population groups alter their proportional relation to each other.

Consequently, this publication projects South Dakota's total population in 1980 and for each of the six State Planning Districts, based on changes of the past 10 years in size of the various age segments, for both males and females.

Age and sex information for the census years 1970 and 1980 is presented here in two ways to facilitate comparisons between South Dakota populations:

1. Age-sex "pyramids" graphically represent age and sex distribution of 1970 and 1980 populations for the State as a whole as well as for the six State Planning Districts. Each horizontal bar on a pyramid represents the proportion that each 5-year age category is of the total

population. Each bar is divided by the vertical axis with the percentage of males to the left and females to the right. The vertical axis represents a zero point for each bar. Thus, the left bottom bar of each pyramid portrays the percent of male children under 5 years of age for a given year and area.

2. A "data table," under each pyramid, provides actual numbers of males, females and the total population by 5-year intervals for the census year 1970, and projections for 1980.

### Population Projections

A word of caution should be directed to the reader at this point. Population projections are definitely not predictions of the future. Instead, they are estimates based on assumptions that future trends in births, deaths and migration will approximate those of the recent past. Furthermore, the projections do not take into account social and economic factors that may affect population growth, such as changing economic conditions, impact of either constructing or closing water development projects, government and military establishment personnel movements, or the opening or discontinuing of business or industrial facilities.

Therefore, these projections are based on the assumptions that:

1. The proportion of persons migrating from South Dakota during the 1970-1980 decade will be the same as recorded for the years 1960 to 1970.
2. The mortality patterns for the decade 1970-1980 will approximate those for the years 1960 to 1970.
3. The number of children born during the years 1970 to 1980 will be similar to the recent low number of births recorded during the years 1969 through 1971.

Official 1960 and 1970 census reports for South Dakota provided data for this projection. The Hamilton and Perry survival ratio method was used for estimating the size of the various age groups for each county in 1980 from 10-years of age upward. The number of children age 0-4 and 5-9 in 1980 was estimated by applying the average of the birth rates for years 1969-71 in South Dakota to the number of women in each 5-year cohort age 15-44 estimated to be resident in the State in 1980.

### Acknowledgments

The authors wish to acknowledge the assistance of Karen Alickson and Elizabeth Swift, Sociology students at South Dakota State University. (3M--3-74--2142)

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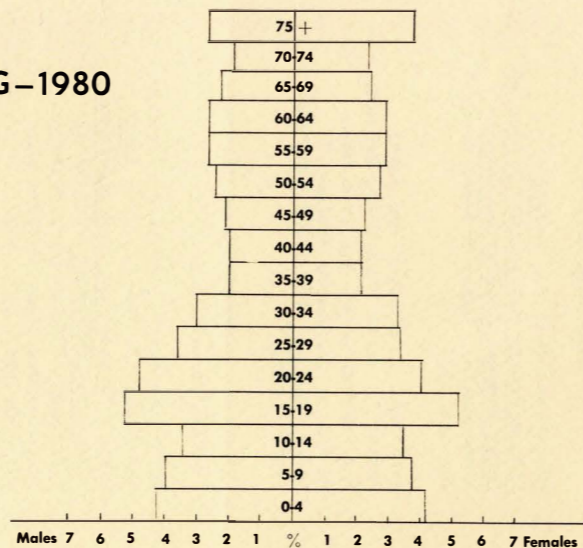
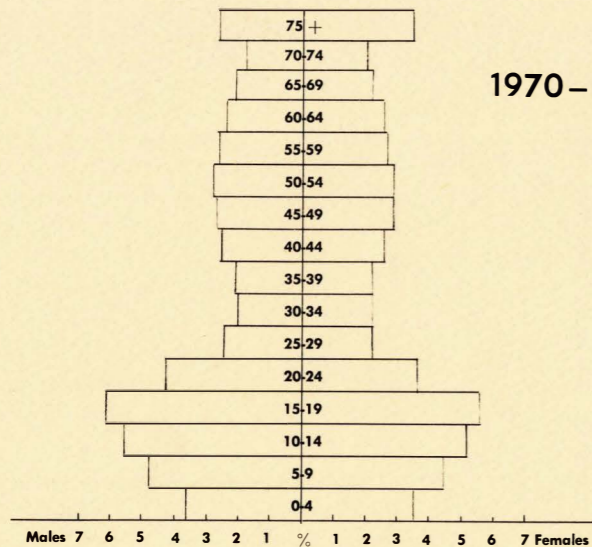
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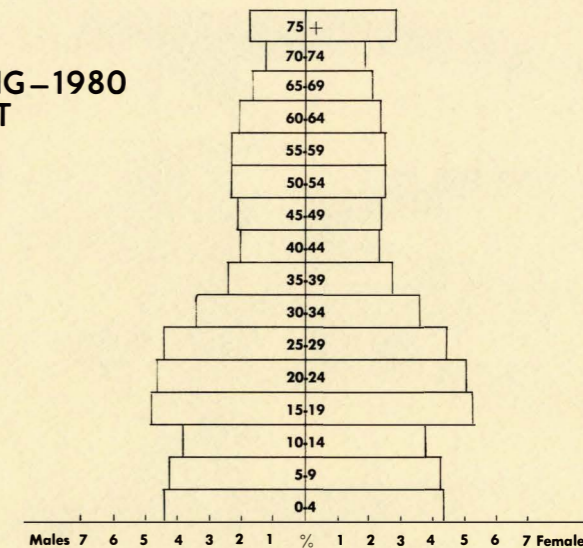
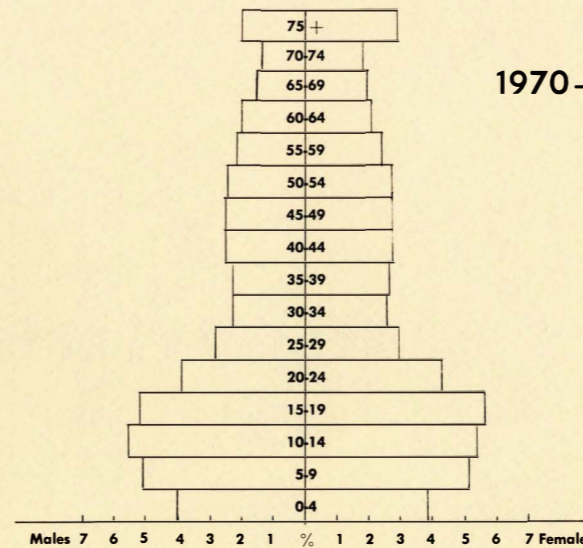
### 1970-PLANNING-1980 DISTRICT I



AGE	MALE	FEMALE	TOTAL
0 - 4	3,512	3,428	6,940
5 - 9	4,614	4,360	8,974
10 - 14	5,346	5,044	10,390
15 - 19	5,974	5,568	11,542
20 - 24	4,148	3,578	7,726
25 - 29	2,318	2,185	4,503
30 - 34	1,960	2,117	4,077
35 - 39	2,026	2,193	4,219
40 - 44	2,429	2,486	4,915
45 - 49	2,664	2,693	5,357
50 - 54	2,758	2,714	5,472
55 - 59	2,546	2,533	5,079
60 - 64	2,341	2,476	4,817
65 - 69	2,034	2,097	4,131
70 - 74	1,772	1,961	3,733
75+	2,579	3,411	5,990
<b>Total</b>	<b>49,021</b>	<b>48,844</b>	<b>97,865</b>

AGE	MALE	FEMALE	TOTAL
0 - 4	3,725	3,636	7,361
5 - 9	3,357	3,172	6,529
10 - 14	3,042	2,954	5,996
15 - 19	4,624	4,370	8,994
20 - 24	4,080	3,458	7,538
25 - 29	3,137	2,857	5,994
30 - 34	2,620	2,765	5,385
35 - 39	1,749	1,863	3,612
40 - 44	1,691	1,891	3,582
45 - 49	1,797	1,965	3,762
50 - 54	2,186	2,237	4,423
55 - 59	2,308	2,366	4,674
60 - 64	2,310	2,439	4,749
65 - 69	1,938	2,132	4,070
70 - 74	1,672	2,059	3,731
75+	2,274	3,133	5,407
<b>Total</b>	<b>42,510</b>	<b>43,297</b>	<b>85,807</b>

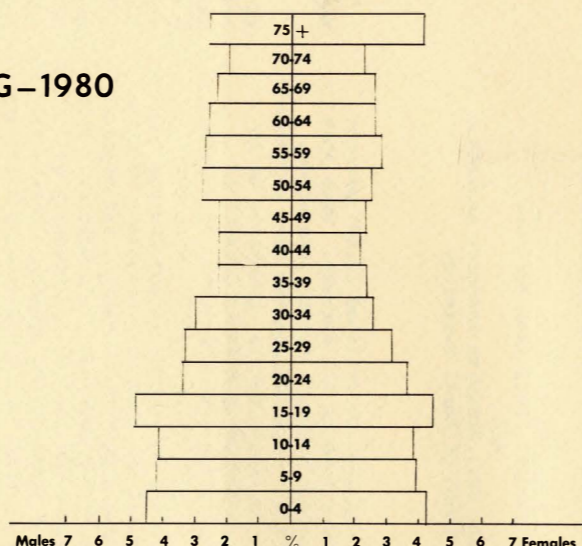
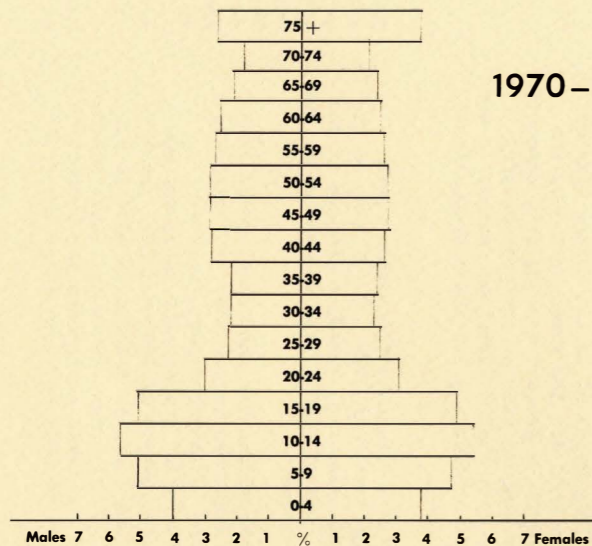
### 1970-PLANNING-1980 DISTRICT II



AGE	MALE	FEMALE	TOTAL
0 - 4	5,939	5,785	11,724
5 - 9	7,508	7,496	15,004
10 - 14	8,154	7,741	15,895
15 - 19	7,680	8,063	15,743
20 - 24	5,660	6,275	11,935
25 - 29	4,236	4,286	8,522
30 - 34	3,468	3,636	7,104
35 - 39	3,525	3,814	7,339
40 - 44	3,954	4,009	7,963
45 - 49	4,030	3,993	8,023
50 - 54	3,794	3,913	7,707
55 - 59	3,283	3,525	6,808
60 - 64	2,863	3,116	5,979
65 - 69	2,350	2,761	5,111
70 - 74	1,985	2,599	4,584
75+	2,947	4,266	7,213
<b>Total</b>	<b>71,376</b>	<b>75,278</b>	<b>146,654</b>

AGE	MALE	FEMALE	TOTAL
0 - 4	6,502	6,334	12,836
5 - 9	6,301	6,291	12,592
10 - 14	5,683	5,471	11,154
15 - 19	7,084	7,749	14,833
20 - 24	6,827	7,387	14,214
25 - 29	6,506	6,511	13,017
30 - 34	5,058	5,272	10,330
35 - 39	3,781	4,041	7,822
40 - 44	3,164	3,446	6,610
45 - 49	3,231	3,535	6,766
50 - 54	3,569	3,750	7,319
55 - 59	3,527	3,698	7,225
60 - 64	3,224	3,592	6,816
65 - 69	2,483	3,109	5,592
70 - 74	1,961	2,614	4,575
75+	2,708	4,202	6,910
<b>Total</b>	<b>71,609</b>	<b>77,002</b>	<b>148,611</b>

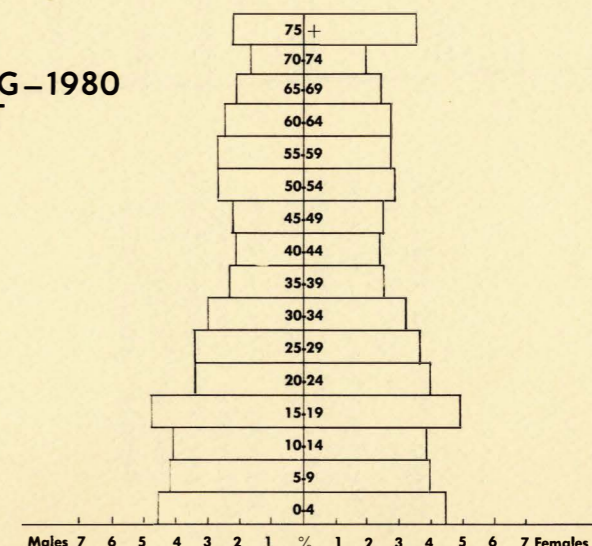
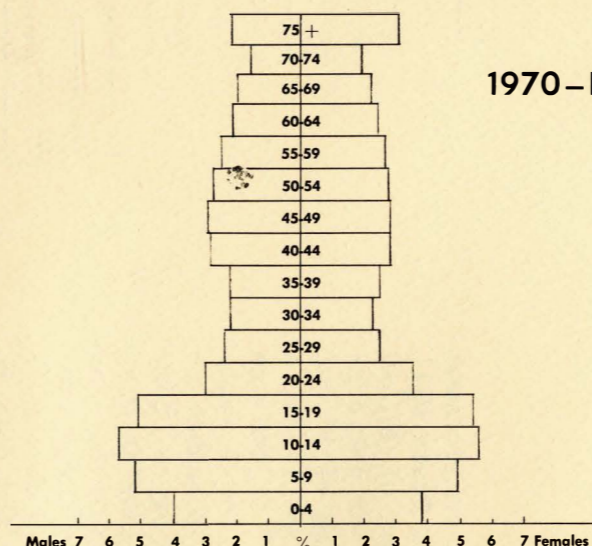
### 1970-PLANNING-1980 DISTRICT III



AGE	MALE	FEMALE	TOTAL
0 - 4	3,875	3,683	7,558
5 - 9	4,942	4,609	9,551
10 - 14	5,430	5,242	10,672
15 - 19	4,921	4,751	9,672
20 - 24	2,896	2,992	5,888
25 - 29	2,280	2,391	4,671
30 - 34	2,134	2,207	4,341
35 - 39	2,167	2,376	4,543
40 - 44	2,643	2,590	5,233
45 - 49	2,747	2,753	5,500
50 - 54	2,743	2,720	5,463
55 - 59	2,569	2,674	5,243
60 - 64	2,342	2,523	4,865
65 - 69	2,040	2,334	4,374
70 - 74	1,741	2,052	3,793
75+	2,464	3,597	6,061
<b>Total</b>	<b>47,934</b>	<b>49,494</b>	<b>97,428</b>

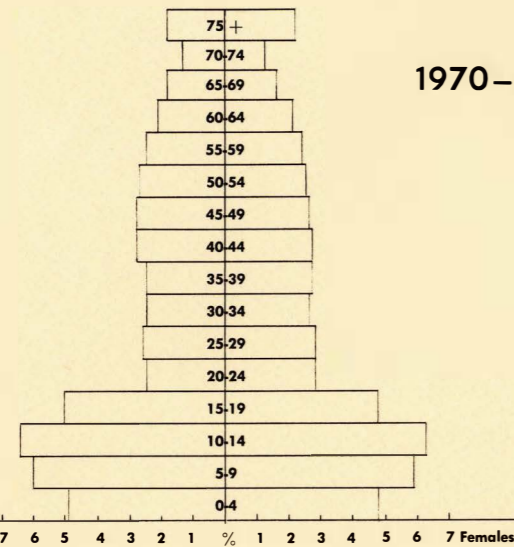
AGE	MALE	FEMALE	TOTAL
0 - 4	3,963	3,766	7,729
5 - 9	3,654	3,408	7,062
10 - 14	3,569	3,360	6,929
15 - 19	4,328	3,932	8,260
20 - 24	3,026	3,139	6,165
25 - 29	2,872	2,775	5,647
30 - 34	2,595	2,390	4,985
35 - 39	1,964	2,190	4,154
40 - 44	1,958	2,044	4,002
45 - 49	1,974	2,237	4,211
50 - 54	2,419	2,404	4,823
55 - 59	2,411	2,536	4,947
60 - 64	2,269	2,464	4,733
65 - 69	2,013	2,415	4,428
70 - 74	1,652	2,159	3,811
75+	2,315	3,604	5,919
<b>Total</b>	<b>42,982</b>	<b>44,823</b>	<b>87,805</b>

### 1970-PLANNING-1980 DISTRICT IV

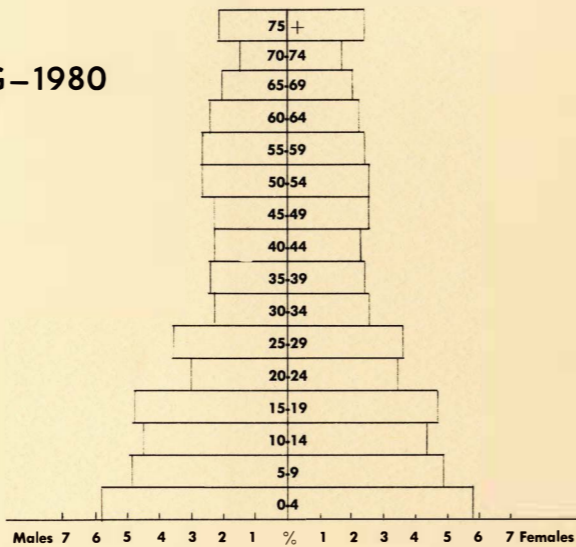


AGE	MALE	FEMALE	TOTAL
0 - 4	4,565	4,363	8,928
5 - 9	5,970	5,681	11,651
10 - 14	6,551	6,306	12,857
15 - 19	5,898	6,085	11,983
20 - 24	3,470	3,997	7,467
25 - 29	2,883	2,830	5,713
30 - 34	2,629	2,654	5,283
35 - 39	2,618	2,915	5,533
40 - 44	3,189	3,239	6,428
45 - 49	3,375	3,175	6,550
50 - 54	3,106	3,162	6,268
55 - 59	2,864	2,964	5,828
60 - 64	2,544	2,734	5,278
65 - 69	2,262	2,537	4,799
70 - 74	2,008	2,239	4,247
75+	2,684	3,597	6,281
<b>Total</b>	<b>56,616</b>	<b>58,478</b>	<b>115,094</b>

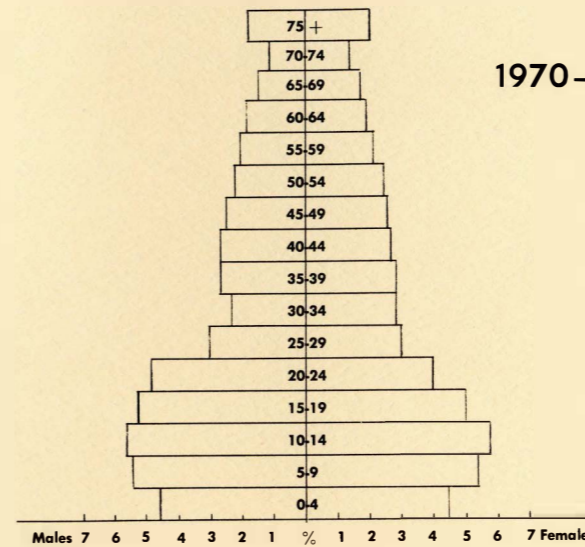
AGE	MALE	FEMALE	TOTAL
0 - 4	4,825	4,612	9,437
5 - 9	4,387	4,174	8,561
10 - 14	4,238	4,043	8,281
15 - 19	4,983	5,141	10,124
20 - 24	3,666	4,184	7,850
25 - 29	3,683	3,663	7,346
30 - 34	3,137	3,374	6,511
35 - 39	2,549	2,593	5,142
40 - 44	2,347	2,371	4,718
45 - 49	2,368	2,614	4,982
50 - 54	2,811	2,951	5,762
55 - 59	2,867	2,849	5,716
60 - 64	2,600	2,800	5,400
65 - 69	2,147	2,511	4,658
70 - 74	1,725	2,129	3,854
75+	2,321	3,691	6,012
<b>Total</b>	<b>50,654</b>	<b>53,700</b>	<b>104,354</b>



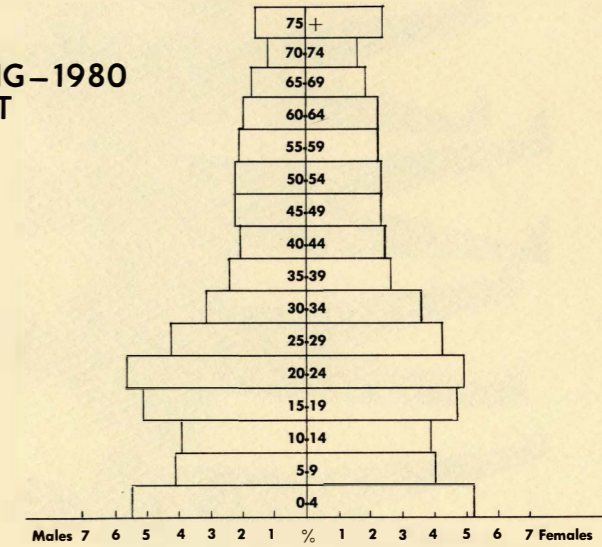
1970-PLANNING-1980  
DISTRICT  
V



AGE	MALE	FEMALE	TOTAL
0 - 4	4,084	4,073	8,157
5 - 9	3,492	3,433	6,925
10 - 14	3,157	3,121	6,278
15 - 19	3,406	3,340	6,746
20 - 24	2,140	2,462	4,602
25 - 29	2,488	2,632	5,120
30 - 34	1,659	1,806	3,465
35 - 39	1,697	1,791	3,488
40 - 44	1,614	1,648	3,262
45 - 49	1,653	1,862	3,515
50 - 54	1,862	1,836	3,698
55 - 59	1,821	1,802	3,623
60 - 64	1,694	1,655	3,349
65 - 69	1,389	1,476	2,865
70 - 74	1,077	1,254	2,331
75+	1,477	1,801	3,278
Total	34,710	35,992	70,702



1970-PLANNING-1980  
DISTRICT  
VI



AGE	MALE	FEMALE	TOTAL
0 - 4	5,931	5,657	11,588
5 - 9	7,172	6,871	14,043
10 - 14	7,429	7,332	14,761
15 - 19	6,873	6,462	13,335
20 - 24	6,277	5,189	11,466
25 - 29	3,855	3,851	7,706
30 - 34	3,261	3,654	6,915
35 - 39	3,614	3,599	7,213
40 - 44	3,611	3,380	6,991
45 - 49	3,339	3,213	6,552
50 - 54	3,061	3,090	6,151
55 - 59	2,844	2,779	5,623
60 - 64	2,493	2,501	4,994
65 - 69	1,919	2,119	4,038
70 - 74	1,528	1,659	3,187
75+	2,317	2,629	4,946
Total	65,524	63,985	129,509

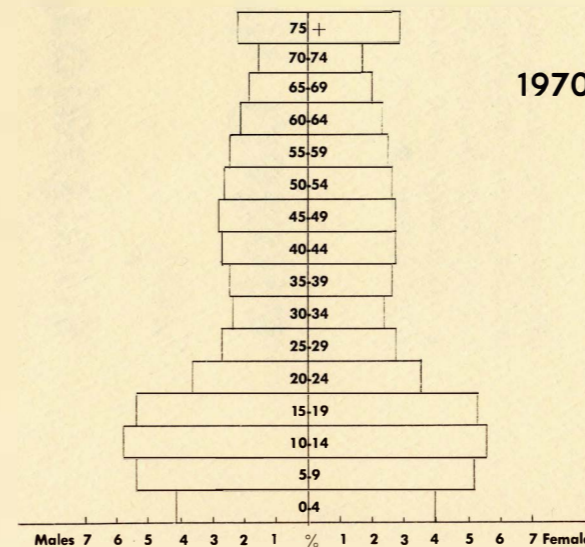
AGE	MALE	FEMALE	TOTAL
0 - 4	7,119	6,790	13,909
5 - 9	5,396	5,169	10,565
10 - 14	5,094	4,961	10,055
15 - 19	6,608	6,114	12,722
20 - 24	7,635	6,394	14,029
25 - 29	5,430	5,546	10,976
30 - 34	4,100	4,573	8,673
35 - 39	3,297	3,391	6,688
40 - 44	2,785	3,067	5,852
45 - 49	2,955	3,058	6,013
50 - 54	2,945	2,986	5,931
55 - 59	2,842	2,871	5,713
60 - 64	2,646	2,844	5,490
65 - 69	2,149	2,455	4,604
70 - 74	1,618	2,127	3,745
75+	2,089	3,147	5,236
Total	64,708	65,493	130,201

# 1980 POPULATION PROJECTIONS

Rural Sociology Department  
Agricultural Experiment Station  
South Dakota State University  
Brookings  
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3M-3-74-2142

AGE	MALE	FEMALE	TOTAL
0 - 4	27,587	26,671	54,258
5 - 9	34,952	33,683	68,635
10 - 14	37,974	36,531	74,505
15 - 19	35,279	34,710	69,989
20 - 24	24,390	24,256	48,646
25 - 29	17,650	17,717	35,367
30 - 34	15,421	16,284	31,705
35 - 39	15,947	17,012	32,959
40 - 44	18,015	17,847	35,862
45 - 49	18,382	17,913	36,295
50 - 54	17,594	17,547	35,141
55 - 59	16,063	16,342	32,405
60 - 64	14,261	14,995	29,256
65 - 69	12,012	13,196	25,208
70 - 74	10,068	11,561	21,629
75+	14,438	19,209	33,647
Total	330,033	335,474	665,507

AGE	MALE	FEMALE	TOTAL
0 - 4	30,770	29,748	60,518
5 - 9	26,502	25,539	52,041
10 - 14	24,749	23,880	48,629
15 - 19	31,043	30,613	61,656
20 - 24	27,015	26,721	53,736
25 - 29	23,859	23,682	47,541
30 - 34	19,225	20,151	39,376
35 - 39	14,989	15,825	30,814
40 - 44	13,553	14,472	28,025
45 - 49	14,014	15,294	29,308
50 - 54	15,812	16,168	31,980
55 - 59	15,772	16,117	31,889
60 - 64	14,735	15,780	30,515
65 - 69	12,121	14,092	26,213
70 - 74	9,719	12,333	22,052
75+	13,183	19,595	32,778
Total	307,061	320,010	627,071



1970-SOUTH-1980  
DAKOTA

