Life Expectancy

American Indians and Alaska Natives

Data Years 2018 – 2020

United States Department of Health and Human Services
Indian Health Service
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INTRODUCTION

In demography, a life table is likely to be the most common method of analysis. Life tables are a convenient summary of different variations in mortality with age and sex. Such tables follow a group of people born within the same time interval (birth cohort) through their lives and calculate the proportion alive at various ages. Life tables allow for the comparison of mortality rates between populations without requiring adjustment to a standard population to account for differences in age distributions between those populations.

The National Center for Health Statistics (NCHS) constructs life tables by race/ethnicity, age, and sex. They do not, however, prepare life tables for the American Indian and Alaska Native (AI/AN) populations who live in the service area of the Indian Health Service (IHS). The purpose of this report is to provide life tables for the service area in which the IHS has responsibilities and to provide normative values for comparing life expectancy between AI/AN and the United States (U.S.) all races population. This report also includes a discussion of life table definitions and methodology to provide a better understanding of life table data. The life tables included in this report are based on 3 years of data because of the small number of AI/AN deaths that occur during a single calendar year (CY).

The life tables begin with a series of age-specific mortality rates developed for that population. All other functions in the table evolve from these rates. The other functions include the number of survivors, the number of deaths, the number of person-years lived at a given age, the number of person-years lived after reaching that age, and a prediction of the average age at which people in a specific group are expected to die, called "life expectancy." This last measure is the most commonly known and used item from life tables. It answers this question: "If all the people reaching any exact age could share equally the total number of years that all will live from that age onward, how many years would each live on average?"

Life expectancy is not the same as life span. Life expectancy is the average number of years that a newborn could expect to live, if he or she were to pass through life exposed to the sex-and age-specific death rates prevailing at the time of his or her birth. Life expectancy, in the context of lifespan, is the average lifespan of a population group, considering factors like sex and birth year, as well as socioeconomic conditions like race or geographic location. It differs significantly between different populations. While life expectancy is an average, lifespan refers to the maximum age a member of a species has been observed to live (e.g., the maximum human lifespan is often cited as 123 years). As medical technology improves, the maximum lifespan figure may increase soon.

TYPES OF LIFE TABLES

Cohort Versus Period Life Tables

It is important to understand some basic concepts regarding life tables. There are two different types of life tables: the cohort (also known as a generation or longitudinal) life table and the period or current life table. The cohort life table is based on the mortality experience of a particular birth cohort (birth year group), which includes all people born in a specific year. Preparation of a cohort life table requires the use of the mortality rates experienced by that cohort at each age during its lifetime, until all persons in the cohort have died. It provides a longitudinal picture of the actual lifetime experience of a particular group of people. It is difficult to prepare since it requires compilation of mortality data over a very long period, (i.e., 100 years or more), depending on the number of years the last surviving member of the cohort lives. For this reason, and because necessary data is often unavailable, cohort life tables have limited practical utility and are not commonly used, although they are of great use to long-term historical studies of mortality.

The period (also known as a current, cross-sectional, or time-specific) life table presented in this report is most used as it is based on a "synthetic" or "hypothetical" as compared to a real birth cohort. A synthetic cohort consists of a population distributed by age as it exists at a particular point in time and is cross-sectional in that it spans numerous generations and includes people born in many different years. The period life table is a model of what would happen to a synthetic birth cohort if the age-specific death rates for a given period were to remain the same and were to apply for an entire generation's experience. The analysis of mortality given in such a table is usually based on the assumption that a single mortality schedule, the death rates for people at different ages in a single population for a certain period, applies to the hypothetical group of people (the synthetic cohort) until all the people in it have died.

In summary, a period life table encapsulates the combined mortality experience by age of a cross-section of population at a particular point in time and is developed from the applicable age-specific mortality rates for a period of time. Hence, a synthetic cohort does not represent the actual experience of a real cohort. The period life table provides a "snapshot" of current mortality experience and is a mathematical model of the life history of a synthetic cohort. It is a model because simplifying assumptions have been made to construct the table for a birth cohort that is hypothetical (synthetic) and not real.

Both period and cohort life tables assume a cohort of 100,000 live births as a starting point, a radix. All values generated by the life table evolve from the original 100,000 births. The period life table itself can be interpreted in two ways. The first interpretation is a birth cohort of 100,000 live births aging over time and subject to the mortality conditions shown over their lifetime. The second interpretation is a "stationary population." In such populations, birth and death rates are equal; the age distribution does not change over time. Also, the population size remains the same. The result is that life tables based on this assumption make it easier to isolate the effect of mortality alone without the need to adjust for changing birth rates or population growth.

Complete Versus Abridged Life Tables

Complete life tables contain data by single year of age; they use counts of the population enumerated during a decennial census and deaths for a 3-year period centered on the decennial census year. Abridged life tables contain data by age intervals (5 or 10 years) and usually are prepared annually; however, for this report they have been prepared using 3-year aggregated data due to the relatively small number of AI/AN people residing in the counties in the IHS service delivery area. Annual abridged life tables are prepared by using the most recent decennial life table as a standard and adjusting abridged life table functions to that standard.

The methodology used here was developed by NCHS[1] and is referred to as, "The revised method of computing life tables by reference to a 'standard' table." Appendix A provides a brief description of the methodology. The NCHS developed a report that discusses the methodology in detail. Guidance on how to interpret a life table is also included in Appendix A.

ADJUSTING FOR MISREPORTING OF INDIAN RACE ON STATE DEATH CERTIFICATES

Misreporting of Indian race on state death certificates occurs, especially in areas distant from traditional Indian reservations. To determine the degree and scope of the misreporting, the IHS conducted a study utilizing the National Death Index (NDI) maintained by NCHS. The results of the NDI study provide sufficient numbers to calculate adjustments to the number of deaths by sex for each IHS Area, for IHS overall, and for 5-year age groups. **Adjusted life expectancies** are a more accurate representation of Indian life expectancy than actual life expectancies since they are "adjusted" to account for misreporting of AI/AN race on state death certificates. Therefore, the analyses in this report are based on the adjusted life expectancies. For more information on adjusting for misreporting of Indian race on state death certificates, see Appendix B.

DATA PRESENTATIONS

A summary table (Table 1) and 12 charts (Charts A1-D3) for AI/AN life expectancies at birth and for persons in several age groups (15-24 years, 25-34 years, 35-44 years, and 55-64 years) are presented in this report. Data are provided by sex (all AI/AN, AI/AN male and AI/AN female), and for each IHS Area. For comparison, the table and accompanying charts show the life expectancies for the U.S. all races population. Life expectancies for other age groups, in addition to those selected for review in this report, are provided in the detailed life expectancy tables found in Appendix A at the end of the report.

[1] Comparison of two methods of constructing abridged life tables by reference to a "standard" table: comparison of the revised and the prior method of constructing the abridged life tables for the United States. Washington, DC: U.S. Department of Health, Education, and Welfare, Public Health Service. Vital and health statistics. Series 2, Data evaluation and methods research; number 4, 1966.

The life expectancy data presented in this report are based upon data that have been adjusted for the misreporting of AI/AN race on the death certificates. Unadjusted life expectancy data are included in Table 1.

LIFE EXPECTANCY AT BIRTH

(REFER TO TABLE 1 AND CHARTS A1, A2, AND A3 ON PAGE 8 FF.)

Table A. Summary, Life expectancy at birth, 2018-2020

	IHS AREA	ADJUSTED (Years of Life Remaining)
1	Nashville	85.8
2	California	79.6
3	Portland	75.9
4	Phoenix	75.1
5	Albuquerque	74.6
6	Tucson	74.0
7	Alaska	69.5
8	Bemidji	69.0
9	Navajo	68.4
10	Oklahoma City	67.8
11	Great Plains	67.1
12	Billings	63.1

Life expectancy at birth for all 12 IHS Areas was 73.7 years (2018-2020). Comparable data for the U.S. all races population (2019) was 78.8.

For each IHS Area, life expectancies for females were generally higher than those for males, except for Albuquerque (74.6) and Great Plains (67.1), which were equal. To measure the magnitude of this difference, ratios between the female life expectancies and the male life expectancies by IHS Area are presented (see Table 1). These ratios varied from 1.00 in Albuquerque and Great Plains to 1.17 in Navajo. For all 12 IHS Areas, this ratio was 1.10 (2018-2020). The comparable female to male ratio for the (2019) U.S. all races population was 1.07.

YEARS OF LIFE REMAINING FOR PERSONS 15-24 YEARS OF AGE

(REFER TO TABLE 1 AND CHARTS B1, B2, AND B3 ON PAGE 10 FF.)

Table B. Summary, Years of life remaining at 15-24 years, 2018-2020

	IHS AREA	ADJUSTED (Years of Life Remaining)
1	Nashville	71.2
2	California	65.0
3	Portland	61.4
4	Phoenix	60.6
5	Albuquerque	60.0
6	Tucson	59.7
7	Alaska	55.5
8	Bemidji	54.9
9	Navajo	54.1
10	Oklahoma City	53.7
11	Great Plains	53.0
12	Billings	49.1

The years of life remaining for the age group 15-24 years for all 12 IHS Areas was 59.3 years. Comparable data for the U.S. all races population (2019) was 60.6.

Ratios of female to male years of life remaining for AI/AN in the age group 15-24 years varied from 1.00 for Albuquerque and Great Plains to 1.22 for Navajo. For all 12 IHS Areas, this ratio was 1.12. The comparable ratio for the U.S. all races population was 1.08.

YEARS OF LIFE REMAINING FOR PERSONS 25-34 YEARS OF AGE

(REFER TO TABLE 1 AND CHARTS C1, C2, AND C3 ON PAGE 12 FF.)

Table C. Summary, Years of life remaining at 25-34 years, 2018-2020

	IHS AREA	ADJUSTED (Years of Life Remaining)
1	Nashville	61.6
2	California	55.5
3	Portland	52.1
4	Phoenix	51.3
5	Albuquerque	50.7
6	Tucson	50.2
7	Alaska	46.7
8	Bemidji	45.8
9	Navajo	45.0
10	Oklahoma City	44.4
11	Great Plains	43.9
12	Billings	40.5

The years of life remaining for the age group 25-34 years for all 12 IHS Areas was 50.0 years. Comparable data for the U.S. all races population (2019) was 51.1.

Ratios of female to male years of life remaining for AI/AN in the age group 25-34 years varied from 1.00 for Albuquerque and Great Plains to 1.25 for Navajo. For the 12 IHS Areas this ratio was 1.13. The comparable ratio for the U.S. all races population was 1.09.

YEARS OF LIFE REMAINING FOR PERSONS 35-44 YEARS OF AGE

(REFER TO TABLE 1 AND CHARTS D1, D2, AND D3 ON PAGE 14 FF.)

Table D. Summary, Years of life remaining at 35-44 years, 2018-2020

	IHS AREA	ADJUSTED (Years of Life Remaining)
1	Nashville	52.4
2	California	46.3
3	Portland	43.3
4	Phoenix	42.9
5	Albuquerque	42.7
6	Tucson	41.7
7	Alaska	38.8
8	Bemidji	37.8
9	Navajo	37.7
10	Great Plains	36.0
11	Oklahoma City	35.8
12	Billings	32.9

The years of life remaining for the age group 35-44 years for all 12 IHS Areas was 41.4 years. Comparable data for the U.S. all races population (2019) was 41.8.

Ratios of female to male years of life remaining for AI/AN in the age group 35-44 years varied from 1.00 for Albuquerque and Great Plains to 1.26 for Navajo. For the 12 IHS Areas this ratio was 1.14. The comparable ratio for the U.S. all races population was 1.15.

YEARS OF LIFE REMAINING FOR PERSONS 55-64 YEARS OF AGE

(REFER TO TABLE 1 AND CHARTS E1, E2, AND E3 ON P.16 FF.)

Table E. Summary, Years of life remaining at 55-64 years, 2018-2020

	IHS AREA	ADJUSTED (Years of Life Remaining)
1	Nashville	35.2
2	California	28.8
3	Albuquerque	28.1
4	Phoenix	27.0
5	Portland	26.4
6	Tucson	26.0
7	Navajo	24.5
8	Alaska	23.5
9	Bemidji	22.6
10	Great Plains	21.7
11	Oklahoma City	20.5
12	Billings	19.7

The years of life remaining for the age group 55-64 years for all 12 IHS Areas was 25.4 years. Comparable data for the U.S. all races population (2019) was 24.4.

Ratios of female to male years of life remaining for AI/AN in the age group 55-64 varied from 1.00 for Albuquerque and Great Plains to 1.27 for Nashville. For the 12 IHS Areas this ratio was 1.18. The comparable ratio for the U.S. all races population was 1.14.

Table 1. Life Expectancy at Selected Ages and Relative Rankings of American Indians and Alaska Natives Residing in IHS Service Areas, 2018-2020

A. LIFE EXPECTANCY AT BIRTH (Years of life remaining)

	Both Sexes			Male			Female			Ratio
	UNADJ	ADJ	RANK (ADJ)	UNADJ	ADJ	RANK (ADJ)	UNADJ	ADJ	RANK (ADJ)	(Female: Male)
IHS (All 12 Areas)	75.2	73.7		71.9	70.4		78.6	77.1		1.10
Alaska	70.3	69.5	(7)	67.6	66.2	(8)	73.2	71.3	(8)	1.08
Albuquerque	75.5	74.6	(5)	75.5	74.6	(2)	75.5	74.6	(6)	1.00
Bemidji	72.1	69.0	(8)	69.3	64.3	(9)	75.1	69.0	(9)	1.07
Billings	64.1	63.1	(12)	61.0	59.3	(12)	67.5	65.3	(12)	1.10
California	85.4	79.6	(2)	82.1	73.2	(3)	88.6	77.8	(2)	1.06
Great Plains	67.6	67.1	(11)	67.6	67.1	(7)	67.6	67.1	(10)	1.00
Nashville	88.8	85.8	(1)	86.6	81.0	(1)	91.0	85.5	(1)	1.06
Navajo	68.6	68.4	(9)	63.5	63.2	(10)	74.3	73.8	(7)	1.17
Oklahoma City	72.9	67.8	(10)	69.3	61.5	(11)	76.7	66.5	(11)	1.08
Phoenix	75.9	75.1	(4)	72.7	71.3	(5)	79.1	77.4	(4)	1.09
Portland	77.4	75.9	(3)	75.3	72.4	(4)	79.6	76.7	(5)	1.06
Tucson	74.5	74.0	(6)	70.5	69.6	(6)	78.6	77.7	(3)	1.12
U.S. All Races (2019)	78.8			76.3			81.4			1.07

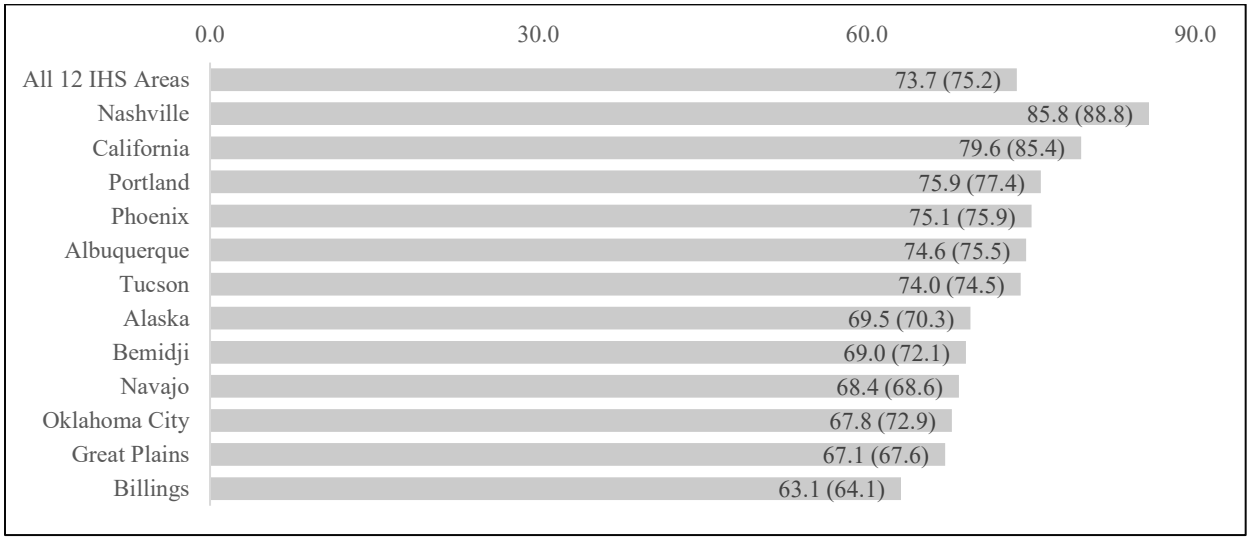
( ) = Area Office rank.
UNADJ = Unadjusted; data not adjusted to compensate for misreporting of AI/AN race on state death certificates.
ADJ = Adjusted; data adjusted to compensate for misreporting of AI/AN race on state death certificates.

CHART A1. LIFE EXPECTANCY AT BIRTH, BOTH SEXES

CY 2018-2020 (ADJUSTED)

U.S. ALL RACES (2019) = 78.8

YEARS OF LIFE REMAINING



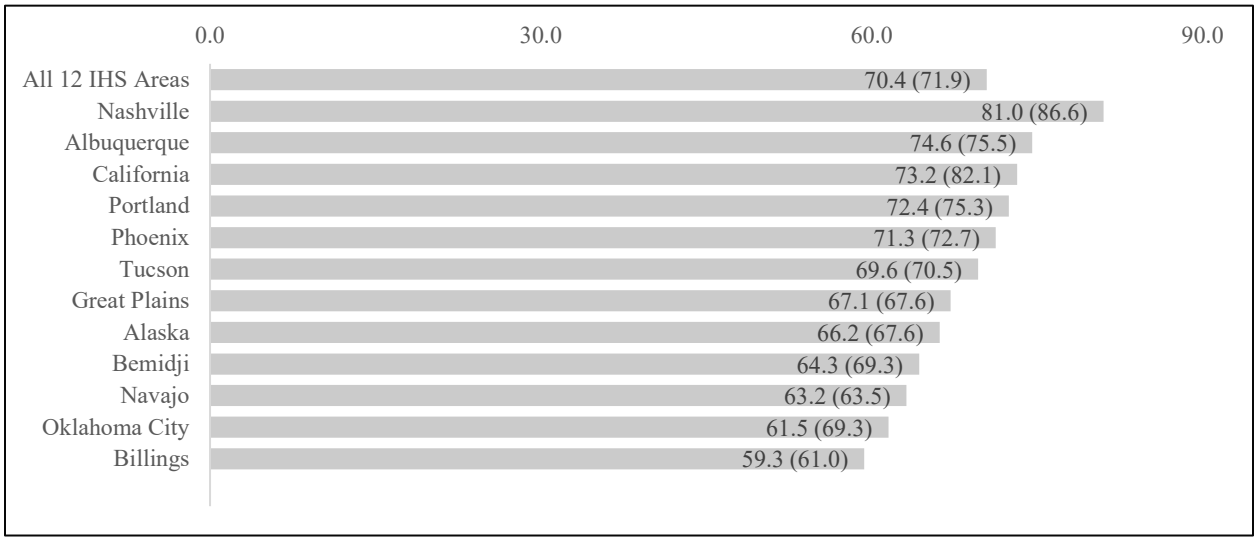
NOTE: LIFE EXPECTANCIES **NOT** ADJUSTED FOR MISREPORTING OF AMERICAN INDIAN AND ALASKA NATIVE RACE ON STATE DEATH CERTIFICATES ARE SHOWN IN PARENTHESES ( ).

CHART A2. LIFE EXPECTANCY AT BIRTH, MALES

CY 2018-2020 (ADJUSTED)

U.S. ALL RACES (2019) = 76.3

YEARS OF LIFE REMAINING



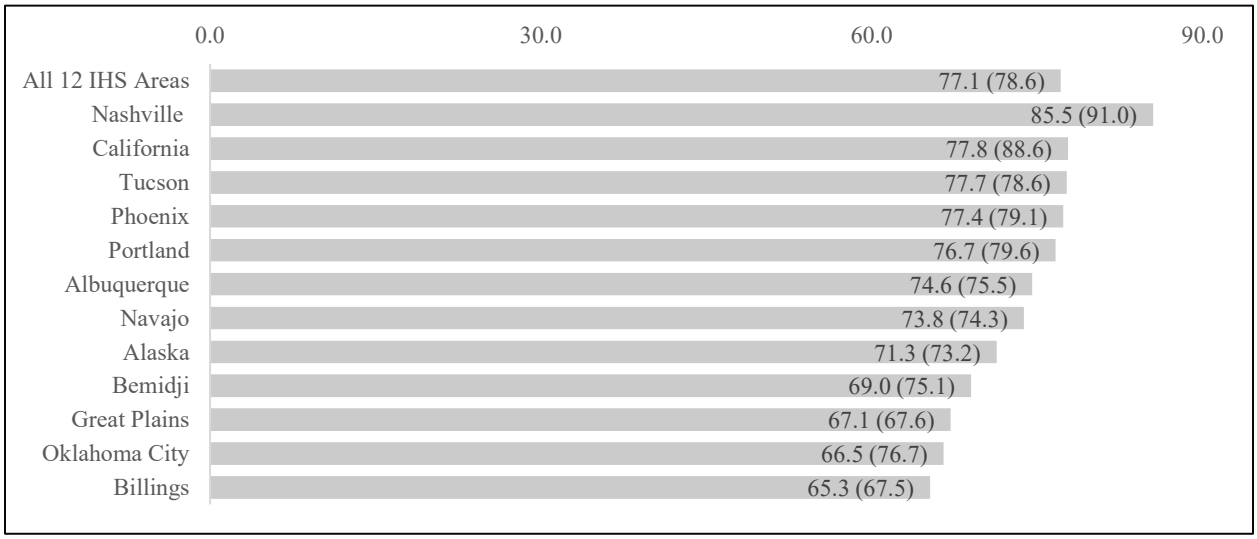
NOTE: LIFE EXPECTANCIES **NOT** ADJUSTED FOR MISREPORTING OF AMERICAN INDIAN AND ALASKA NATIVE RACE ON STATE DEATH CERTIFICATES ARE SHOWN IN PARENTHESES ( ).

CHART A3. LIFE EXPECTANCY AT BIRTH, FEMALES

CY 2018-2020 (ADJUSTED)

U.S. ALL RACES (2019) = 81.4

YEARS OF LIFE REMAINING



NOTE: LIFE EXPECTANCIES **NOT** ADJUSTED FOR MISREPORTING OF AMERICAN INDIAN AND ALASKA NATIVE RACE ON STATE DEATH CERTIFICATES ARE SHOWN IN PARENTHESES ( ).

TABLE 1. *(CONTINUED)* LIFE EXPECTANCY AT SELECTED AGES AND RELATIVE RANKINGS OF AMERICAN INDIANS AND ALASKA NATIVES RESIDING IN IHS SERVICE AREAS, 2018-2020

B. LIFE EXPECTANCY, PERSONS 15-24 YEARS (Years of life remaining)

	Both Sexes			Male			Female			Ratio
	UNADJ	ADJ	RANK (ADJ)	UNADJ	ADJ	RANK (ADJ)	UNADJ	ADJ	RANK (ADJ)	(Female: Male)
IHS (All 12 Areas)	60.8	59.3		57.5	56.1		64.2	62.7		1.12
Alaska	56.3	55.5	(7)	53.8	52.4	(8)	58.9	57.1	(8)	1.09
Albuquerque	60.9	60.0	(5)	60.9	60.0	(2)	60.9	60.0	(6)	1.00
Bemidji	57.9	54.9	(8)	55.1	50.2	(9)	60.8	54.9	(9)	1.09
Billings	50.1	49.1	(12)	46.8	45.2	(12)	53.6	51.4	(12)	1.14
California	70.7	65.0	(2)	67.6	58.8	(3)	73.8	63.3	(2)	1.08
Great Plains	53.4	53.0	(11)	53.4	53.0	(7)	53.4	53.0	(10)	1.00
Nashville	74.1	71.2	(1)	72.0	66.5	(1)	76.3	70.9	(1)	1.07
Navajo	54.3	54.1	(9)	49.1	48.8	(10)	60.0	59.6	(7)	1.22
Oklahoma City	58.6	53.7	(10)	55.0	47.6	(11)	62.4	52.5	(11)	1.10
Phoenix	61.4	60.6	(4)	58.2	56.8	(5)	64.6	63.0	(4)	1.11
Portland	62.9	61.4	(3)	60.9	58.1	(4)	65.1	62.2	(5)	1.07
Tucson	60.1	59.7	(6)	56.3	55.4	(6)	64.1	63.2	(3)	1.14
U.S. All Races (2019)	60.6			58.2			63.0			1.08

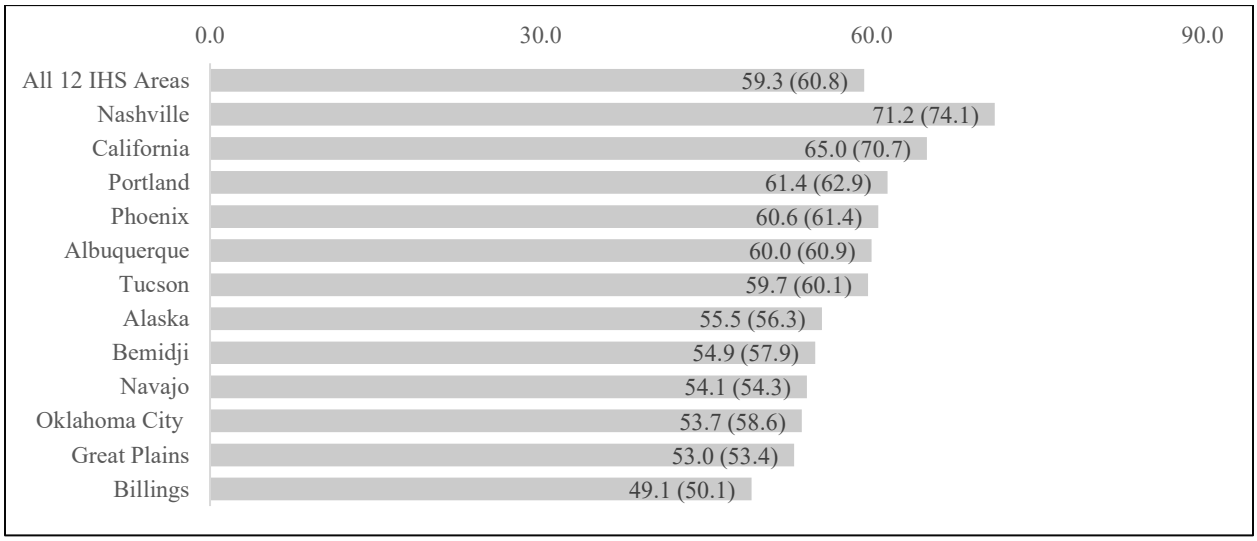
( ) = Area Office rank.
UNADJ = Unadjusted; data not adjusted to compensate for misreporting of AI/AN race on state death certificates.
ADJ = Adjusted; data adjusted to compensate for misreporting of AI/AN race on state death certificates.

CHART B1. LIFE EXPECTANCY AT 15-24 YEARS, BOTH SEXES

CY 2018-2020 (ADJUSTED)

U.S. ALL RACES (2019) = 60.6

YEARS OF LIFE REMAINING



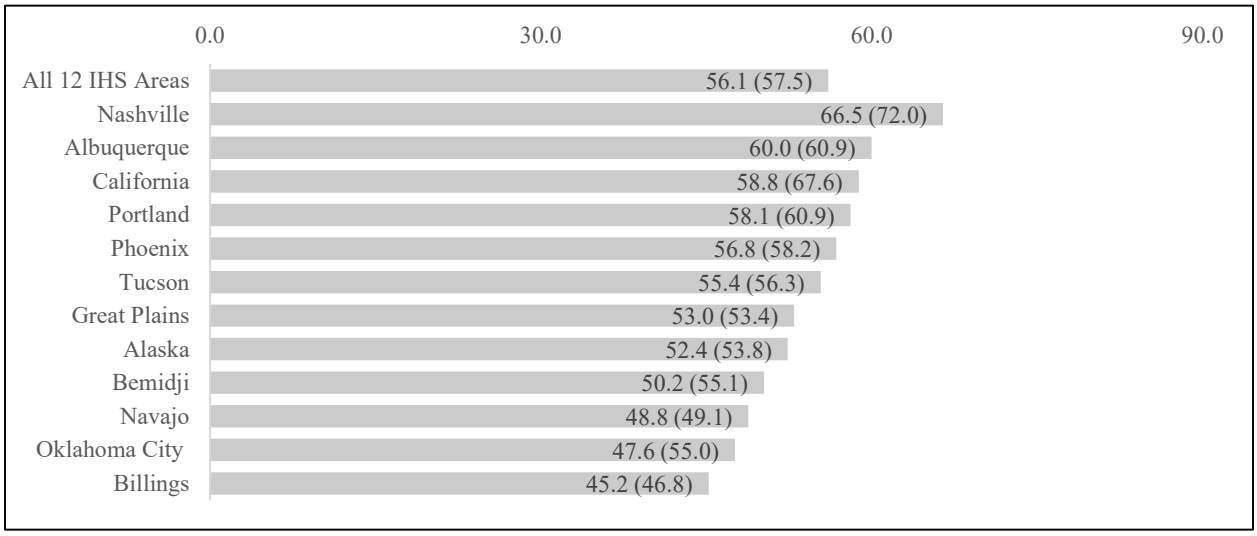
NOTE: LIFE EXPECTANCIES **NOT** ADJUSTED FOR MISREPORTING OF AMERICAN INDIAN AND ALASKA NATIVE RACE ON STATE DEATH CERTIFICATES ARE SHOWN IN PARENTHESES ( ).

CHART B2. LIFE EXPECTANCY AT 15-24 YEARS, MALES

CY 2018-2020 (ADJUSTED)

U.S. ALL RACES (2019) = 58.2

YEARS OF LIFE REMAINING



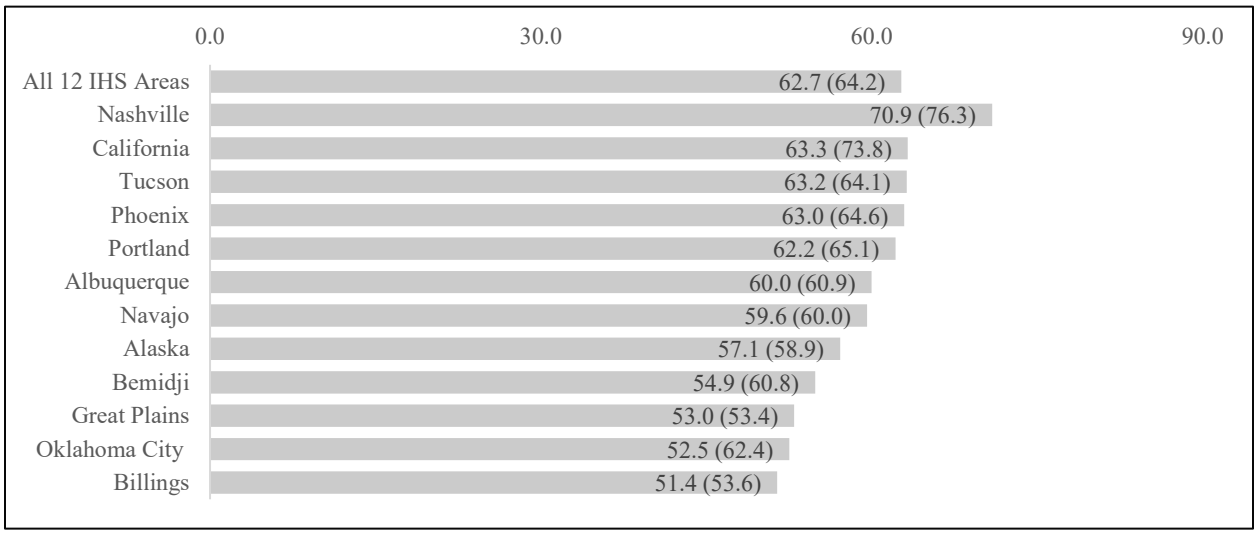
NOTE: LIFE EXPECTANCIES **NOT** ADJUSTED FOR MISREPORTING OF AMERICAN INDIAN AND ALASKA NATIVE RACE ON STATE DEATH CERTIFICATES ARE SHOWN IN PARENTHESES ( ).

CHART B3. LIFE EXPECTANCY AT 15-24 YEARS, FEMALES

CY 2018-2020 (ADJUSTED)

U.S. ALL RACES (2019) = 63.0

YEARS OF LIFE REMAINING



NOTE: LIFE EXPECTANCIES **NOT** ADJUSTED FOR MISREPORTING OF AMERICAN INDIAN AND ALASKA NATIVE RACE ON STATE DEATH CERTIFICATES ARE SHOWN IN PARENTHESES ( ).

TABLE 1. *(CONTINUED)* LIFE EXPECTANCY AT SELECTED AGES AND RELATIVE RANKINGS OF AMERICAN INDIANS AND ALASKA NATIVES RESIDING IN IHS SERVICE AREAS, 2018-2020

C. LIFE EXPECTANCY, PERSONS 25-34 YEARS (Years of life remaining)

	Both Sexes			Male			Female			Ratio
	UNADJ	ADJ	RANK (ADJ)	UNADJ	ADJ	RANK (ADJ)	UNADJ	ADJ	RANK (ADJ)	(Female: Male)
IHS (All 12 Areas)	51.5	50.0		48.4	46.9		54.6	53.1		1.13
Alaska	47.5	46.7	(7)	45.3	43.9	(7)	49.7	48.0	(8)	1.09
Albuquerque	51.6	50.7	(5)	51.6	50.7	(2)	51.6	50.7	(6)	1.00
Bemidji	48.7	45.8	(8)	46.0	41.3	(9)	51.4	45.7	(9)	1.11
Billings	41.4	40.5	(12)	38.4	36.8	(12)	44.7	42.6	(12)	1.16
California	61.1	55.5	(2)	58.1	49.5	(3)	64.0	53.7	(2)	1.08
Great Plains	44.4	43.9	(11)	44.4	43.9	(8)	44.4	43.9	(10)	1.00
Nashville	64.5	61.6	(1)	62.5	57.1	(1)	66.5	61.3	(1)	1.07
Navajo	45.2	45.0	(9)	40.3	40.0	(10)	50.5	50.1	(7)	1.25
Oklahoma City	49.1	44.4	(10)	45.8	38.6	(11)	52.7	43.3	(11)	1.12
Phoenix	52.1	51.3	(4)	49.2	47.8	(5)	55.0	53.4	(3)	1.12
Portland	53.6	52.1	(3)	51.7	49.0	(4)	55.4	52.6	(5)	1.07
Tucson	50.7	50.2	(6)	47.1	46.2	(6)	54.3	53.4	(4)	1.15
U.S. All Races (2019)	51.1			48.9			53.4			1.09

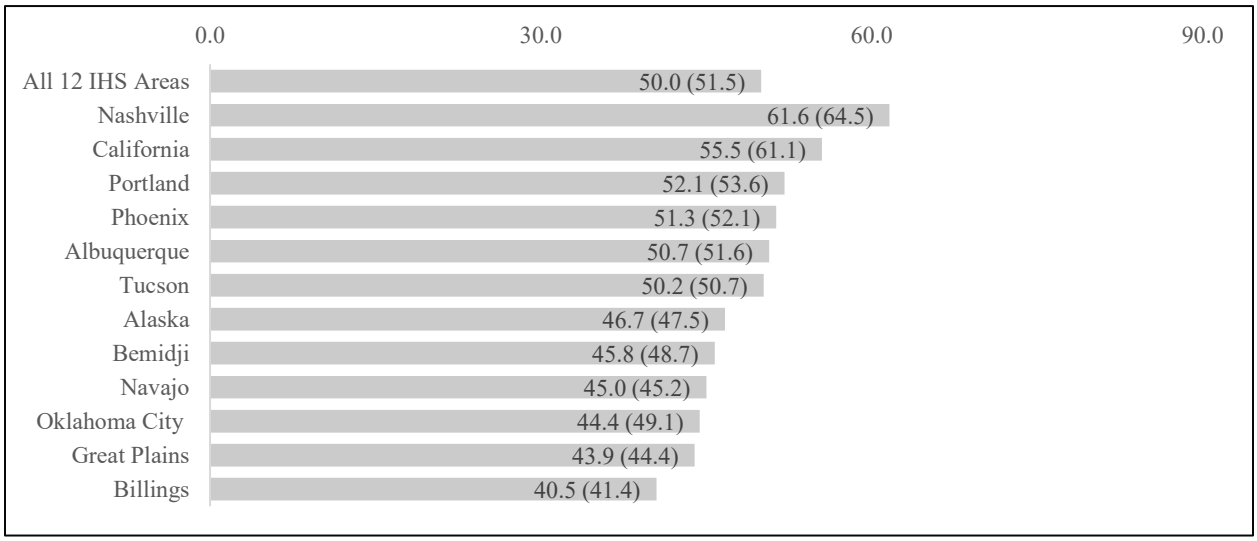
( ) = Area Office rank.
UNADJ = Unadjusted; data not adjusted to compensate for misreporting of AI/AN race on state death certificates.
ADJ = Adjusted; data adjusted to compensate for misreporting of AI/AN race on state death certificates.

CHART C1. LIFE EXPECTANCY AT 25-34 YEARS, BOTH SEXES

CY 2018-2020 (ADJUSTED)

U.S. ALL RACES (2019) = 51.1

YEARS OF LIFE REMAINING



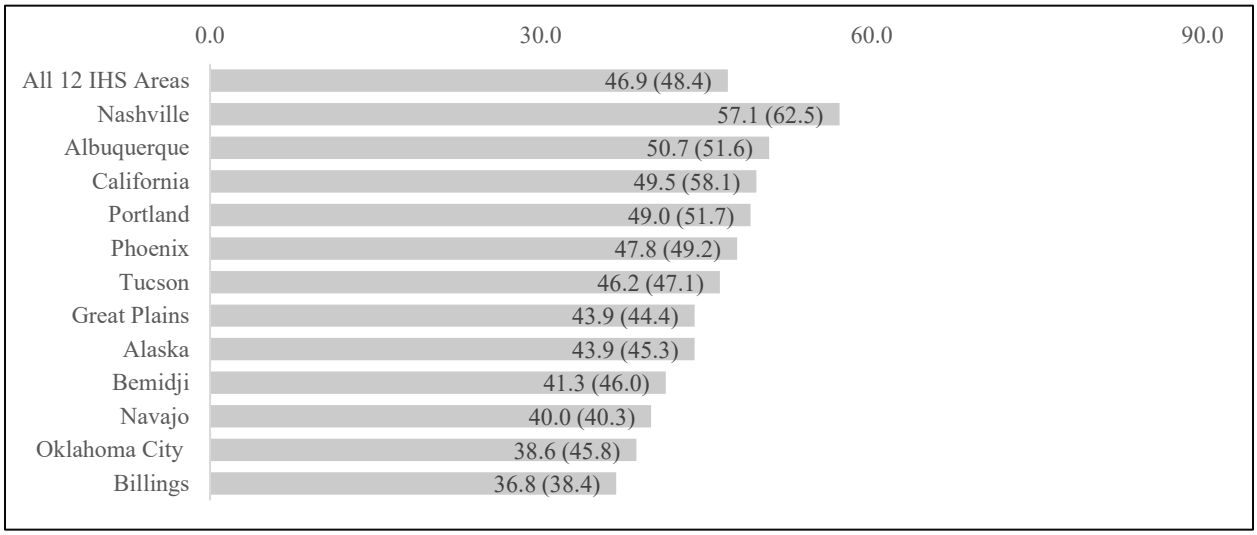
NOTE: LIFE EXPECTANCIES **NOT** ADJUSTED FOR MISREPORTING OF AMERICAN INDIAN AND ALASKA NATIVE RACE ON STATE DEATH CERTIFICATES ARE SHOWN IN PARENTHESES ( ).

CHART C2. LIFE EXPECTANCY AT 25-34 YEARS, MALES

CY 2018-2020 (ADJUSTED)

U.S. ALL RACES (2019) = 48.9

YEARS OF LIFE REMAINING



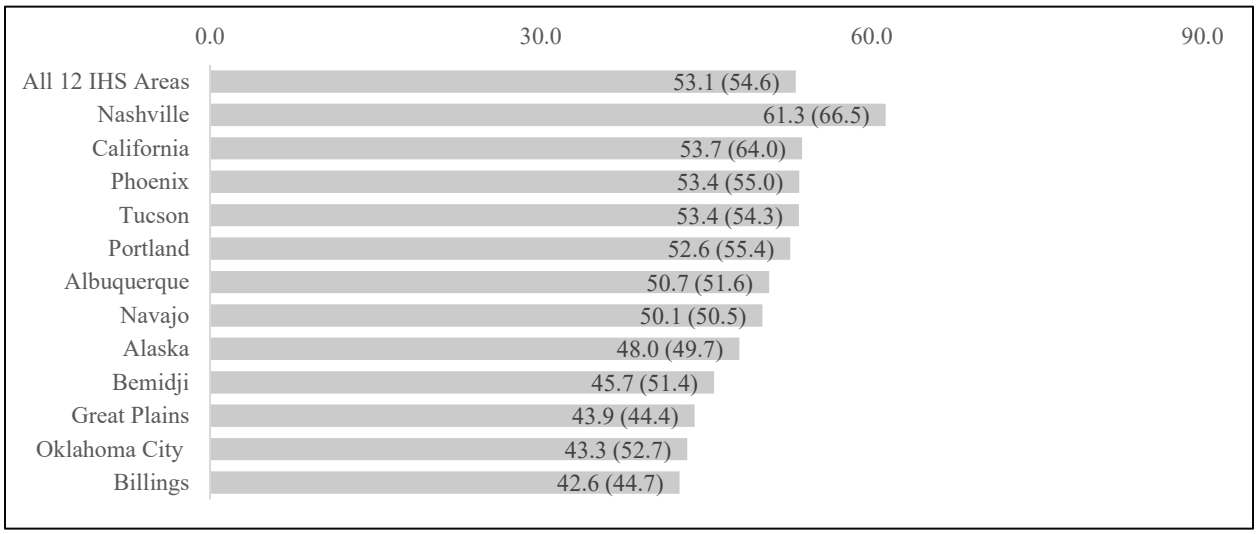
NOTE: LIFE EXPECTANCIES **NOT** ADJUSTED FOR MISREPORTING OF AMERICAN INDIAN AND ALASKA NATIVE RACE ON STATE DEATH CERTIFICATES ARE SHOWN IN PARENTHESES ( ).

CHART C3. LIFE EXPECTANCY AT 25-34 YEARS, FEMALES

CY 2018-2020 (ADJUSTED)

U.S. ALL RACES (2019) = 53.4

YEARS OF LIFE REMAINING



NOTE: LIFE EXPECTANCIES **NOT** ADJUSTED FOR MISREPORTING OF AMERICAN INDIAN AND ALASKA NATIVE RACE ON STATE DEATH CERTIFICATES ARE SHOWN IN PARENTHESES ( ).

TABLE 1. *(CONTINUED)* LIFE EXPECTANCY AT SELECTED AGES AND RELATIVE RANKINGS OF AMERICAN INDIANS AND ALASKA NATIVES RESIDING IN IHS SERVICE AREAS, 2018-2020

D. LIFE EXPECTANCY, PERSONS 35-44 YEARS (Years of life remaining)

	Both Sexes			Male			Female			Ratio
	UNADJ	ADJ	RANK (ADJ)	UNADJ	ADJ	RANK (ADJ)	UNADJ	ADJ	RANK (ADJ)	(Female: Male)
IHS (All 12 Areas)	42.9	41.4		40.1	38.7		45.7	44.2		1.14
Alaska	39.5	38.8	(7)	37.3	36.0	(7)	41.8	40.1	(8)	1.11
Albuquerque	43.6	42.7	(5)	43.6	42.7	(2)	43.6	42.7	(6)	1.00
Bemidji	40.5	37.8	(8)	38.3	33.9	(9)	42.8	37.5	(9)	1.20
Billings	33.7	32.9	(12)	30.7	29.2	(12)	37.0	35.1	(11)	1.11
California	51.6	46.3	(2)	48.7	40.6	(3)	54.4	44.7	(2)	1.10
Great Plains	36.4	36.0	(10)	36.4	36.0	(8)	36.4	36.0	(10)	1.00
Nashville	55.2	52.4	(1)	53.4	48.1	(1)	57.0	52.0	(1)	1.08
Navajo	37.8	37.7	(9)	33.6	33.3	(10)	42.3	41.9	(7)	1.26
Oklahoma City	40.1	35.8	(11)	37.0	30.6	(11)	43.4	35.0	(12)	1.14
Phoenix	43.6	42.9	(4)	41.1	39.7	(5)	46.1	44.5	(3)	1.12
Portland	44.6	43.3	(3)	43.0	40.4	(4)	46.2	43.6	(5)	1.08
Tucson	42.1	41.7	(6)	39.3	38.5	(6)	44.8	44.0	(4)	1.14
U.S. All Races (2019)	41.8			39.8			45.7			1.15

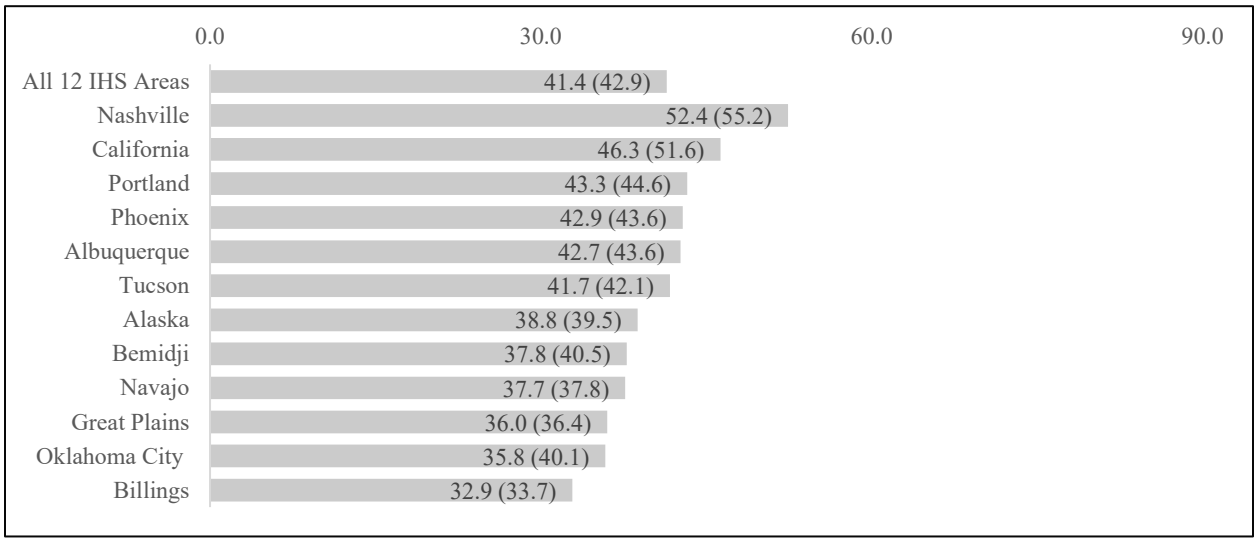
( ) = Area Office rank.
UNADJ = Unadjusted; data not adjusted to compensate for misreporting of AI/AN race on state death certificates.
ADJ = Adjusted; data adjusted to compensate for misreporting of AI/AN race on state death certificates.

CHART D1. LIFE EXPECTANCY AT 35-44 YEARS, BOTH SEXES

CY 2018-2020 (ADJUSTED)

U.S. ALL RACES (2019) = 41.8

YEARS OF LIFE REMAINING



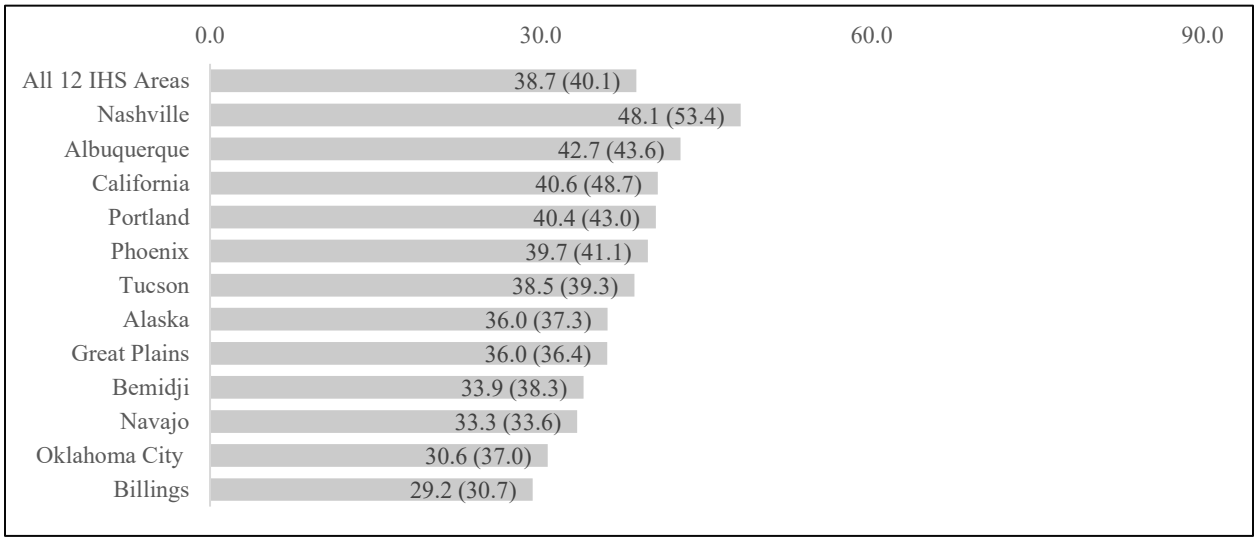
NOTE: LIFE EXPECTANCIES **NOT** ADJUSTED FOR MISREPORTING OF AMERICAN INDIAN AND ALASKA NATIVE RACE ON STATE DEATH CERTIFICATES ARE SHOWN IN PARENTHESES ( ).

CHART D2. LIFE EXPECTANCY AT 35-44 YEARS, MALES

CY 2018-2020 (ADJUSTED)

U.S. ALL RACES (2019) = 39.8

YEARS OF LIFE REMAINING



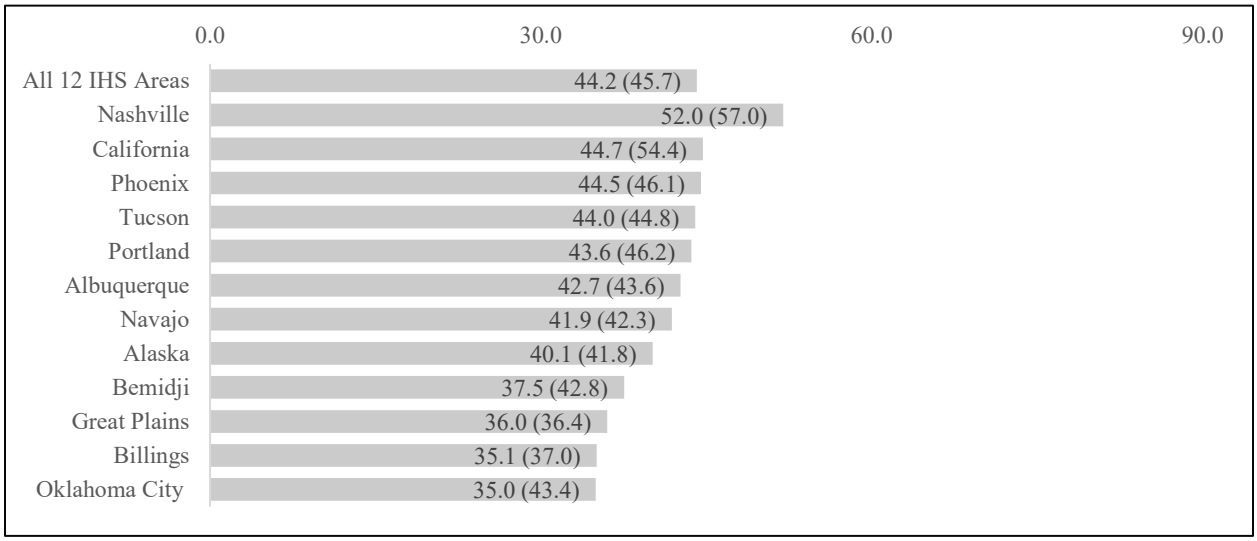
NOTE: LIFE EXPECTANCIES **NOT** ADJUSTED FOR MISREPORTING OF AMERICAN INDIAN AND ALASKA NATIVE RACE ON STATE DEATH CERTIFICATES ARE SHOWN IN PARENTHESES ( ).

CHART D3. LIFE EXPECTANCY AT 35-44 YEARS, FEMALES

CY 2018-2020 (ADJUSTED)

U.S. ALL RACES (2019) = 45.7

YEARS OF LIFE REMAINING



NOTE: LIFE EXPECTANCIES **NOT** ADJUSTED FOR MISREPORTING OF AMERICAN INDIAN AND ALASKA NATIVE RACE ON STATE DEATH CERTIFICATES ARE SHOWN IN PARENTHESES ( ).

TABLE 1. *(CONTINUED)* LIFE EXPECTANCY AT SELECTED AGES AND RELATIVE RANKINGS OF AMERICAN INDIANS AND ALASKA NATIVES RESIDING IN IHS SERVICE AREAS, 2018-2020

E. LIFE EXPECTANCY, PERSONS 55-64 YEARS (Years of life remaining)

	Both Sexes			Male			Female			Ratio
	UNADJ	ADJ	RANK (ADJ)	UNADJ	ADJ	RANK (ADJ)	UNADJ	ADJ	RANK (ADJ)	(Female: Male)
IHS (All 12 Areas)	26.9	25.4		24.6	23.2		28.9	27.4		1.18
Alaska	24.1	23.5	(8)	22.1	21.1	(9)	26.0	24.7	(8)	1.17
Albuquerque	28.9	28.1	(3)	28.9	28.1	(2)	28.9	28.1	(3)	1.00
Bemidji	24.9	22.6	(9)	23.0	19.4	(10)	26.6	22.4	(9)	1.24
Billings	20.4	19.7	(12)	18.2	17.0	(11)	22.7	21.1	(11)	1.16
California	33.5	28.8	(2)	31.0	24.0	(5)	35.8	27.6	(4)	1.15
Great Plains	22.1	21.7	(10)	22.1	21.7	(7)	22.1	21.7	(10)	1.00
Nashville	37.9	35.2	(1)	36.3	31.3	(1)	39.3	34.7	(1)	1.27
Navajo	24.6	24.5	(7)	21.6	21.4	(8)	27.4	27.1	(6)	1.11
Oklahoma City	23.8	20.5	(11)	21.3	16.5	(12)	26.2	20.0	(12)	1.21
Phoenix	27.7	27.0	(4)	25.6	24.4	(3)	29.5	28.2	(2)	1.16
Portland	27.6	26.4	(5)	26.4	24.1	(4)	28.8	26.7	(7)	1.11
Tucson	26.4	26.0	(6)	24.7	23.9	(6)	28.0	27.2	(5)	1.14
U.S. All Races (2019)	24.4			22.7			25.8			1.14

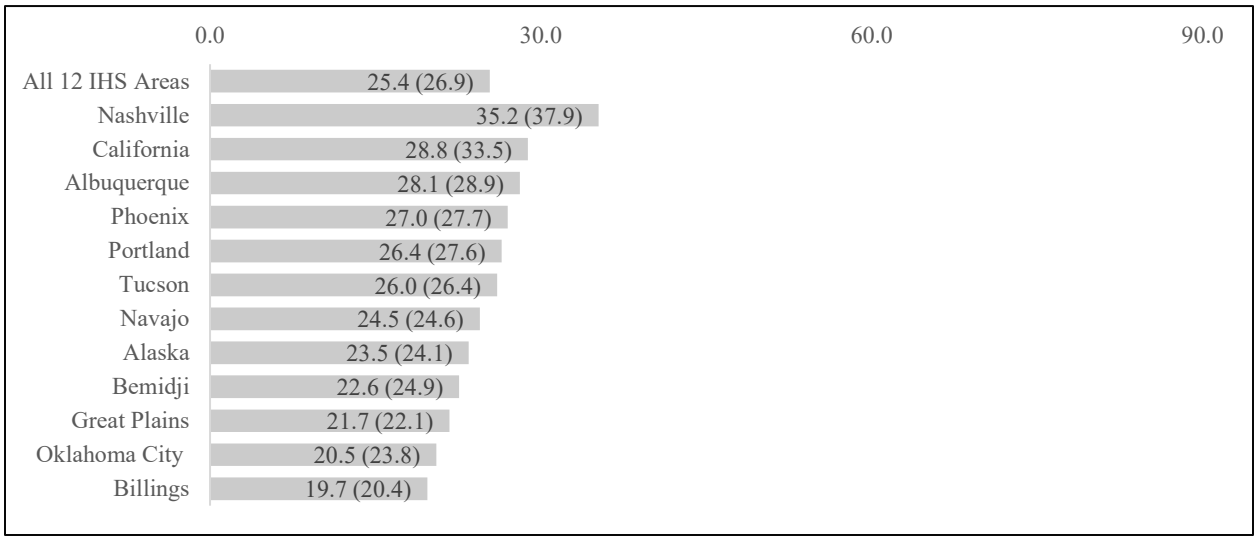
( ) = Area Office rank.
UNADJ = Unadjusted; data not adjusted to compensate for misreporting of AI/AN race on state death certificates.
ADJ = Adjusted; data adjusted to compensate for misreporting of AI/AN race on state death certificates.

CHART E1. LIFE EXPECTANCY AT 55-64 YEARS, BOTH SEXES

CY 2018-2020 (ADJUSTED)

U.S. ALL RACES (2019) = 24.4

YEARS OF LIFE REMAINING



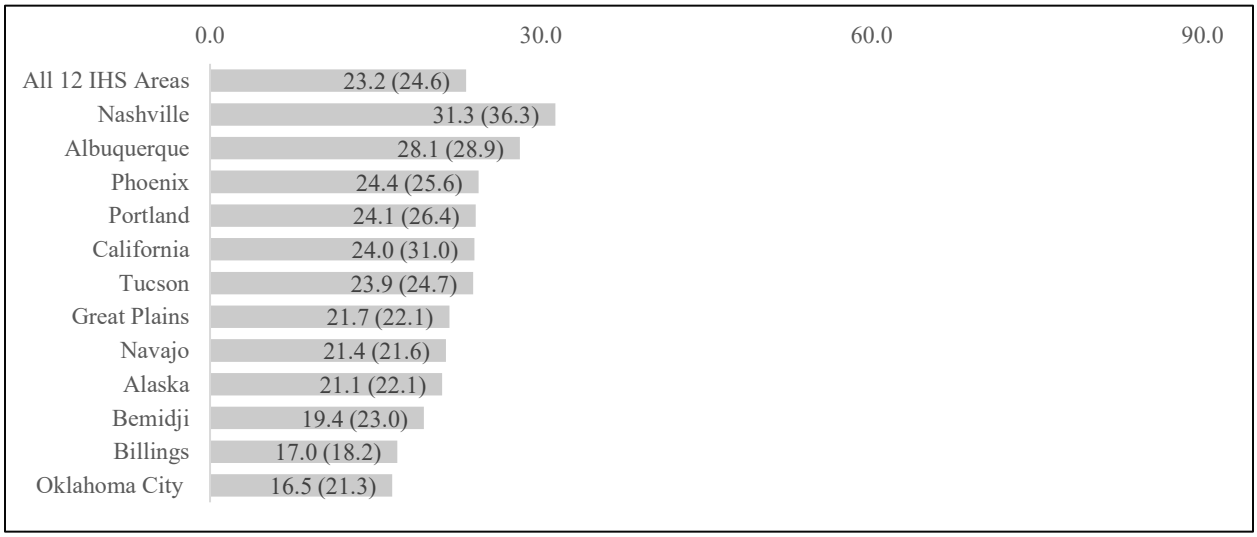
NOTE: LIFE EXPECTANCIES **NOT** ADJUSTED FOR MISREPORTING OF AMERICAN INDIAN AND ALASKA NATIVE RACE ON STATE DEATH CERTIFICATES ARE SHOWN IN PARENTHESES ( ).

CHART E2. LIFE EXPECTANCY AT 55-64 YEARS, MALES

CY 2018-2020 (ADJUSTED)

U.S. ALL RACES (2019) = 22.7

YEARS OF LIFE REMAINING



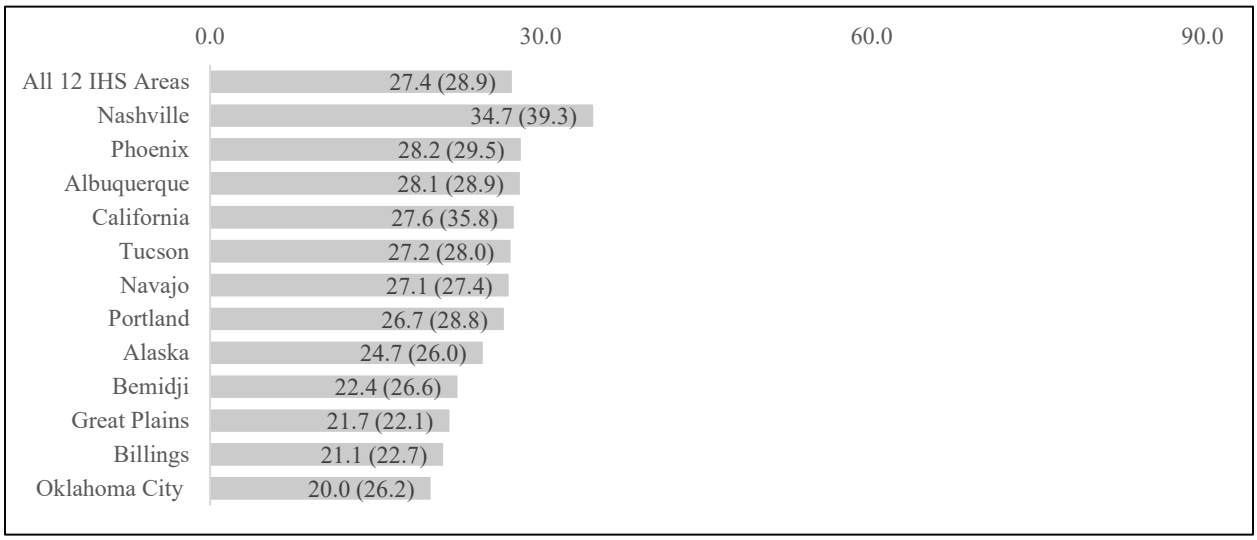
NOTE: LIFE EXPECTANCIES **NOT** ADJUSTED FOR MISREPORTING OF AMERICAN INDIAN/ALASKA NATIVE RACE ON STATE DEATH CERTIFICATES ARE SHOWN IN PARENTHESES ( ).

CHART E3. LIFE EXPECTANCY AT 55-64 YEARS, FEMALES

CY 2018-2020 (ADJUSTED)

U.S. ALL RACES (2019) = 25.8

YEARS OF LIFE REMAINING



NOTE: LIFE EXPECTANCIES **NOT** ADJUSTED FOR MISREPORTING OF AMERICAN INDIAN AND ALASKA NATIVE RACE ON STATE DEATH CERTIFICATES ARE SHOWN IN PARENTHESES ( ).

APPENDIX A

CONSTRUCTING ABRIDGED LIFE TABLES

Life Table Values

The life tables in this report include the basic life table functions commonly shown as part of a published life table. The columns in a life table are identified by mathematical symbols as described below. Note: the age interval is from x to x+n in years in which n is the interval length.

${}_nQ_x$	The probability of dying during the age interval.
l_x	The number of persons out of the original 100,000 live births who are still alive at the beginning of the age interval.
${}_nd_x$	The number dying during the specified age interval.
${}_nL_x$	The number of person-years lived during the specified age interval.
T_x	The total number of person-years that will be lived at age x.
e_x^0	Life expectancy, the average number of years remaining in the lifetime of a person alive at the beginning of the specified age interval.

Preliminary Life Table Data

The following preliminary life table data are not published as part of a life table but are used to generate the life table values described above. Some of these data are fixed constants developed by NCHS to standardize the abridged tables to the complete decennial life tables. Other preliminary data includes mortality and population data used to develop mortality rates. The preliminary data are as follows:

${}_nA_x$	Average person years lived in the interval by those dying in the age interval.
${}_nP_x$	The probability of surviving in the age interval.
${}_nD_x$	The number of deaths for the age interval.
${}_nM_x$	The age-specific death rate for the age interval.
$1+{}_nA_x*{}_nM_x$	A set of adjustment factors used to convert the observed population age-specific mortality rates into the probability of dying, or ${}_nq_x$ using the ${}_nA_x$ constant defined above.

HOW TO INTERPRET A LIFE TABLE

Although a life table contains a multitude of numbers and formulas, the primary interest of a life table user is most likely one number, the life expectancy (expected years of life) at birth. This number (the expected years of life at birth) is shown as the first number in column seven on each of the life tables (A1-A39). All other numbers and formulas in the table contribute to the generation of that number. Life tables are usually prepared by sex because of the substantial difference found in the life expectancy between males and females. To understand the life table concept, it is important to understand life table functions and how they are interrelated.

As stated earlier, ${}_nQ_x$ is the proportion or probability of dying during the age interval of x to x+n. The first step in the generation of ${}_nQ_x$ is computing the age-specific death rate, or ${}_nM_x$, from the number of deaths and the population within the age group. The ${}_nM_x$ may differ slightly from the age-specific mortality rates that we normally use because the number of deaths with age not stated are distributed proportionally among the age groups in the computation of ${}_nM_x$.

The second step toward computing ${}_nQ_x$ is the development of the adjustment factor, based on the relationship of the age-specific death rates to the probability of dying, ${}_nA_x$, that was found in the life table used as the standard. The age-specific death rates computed for the life table are then converted to the probability of dying within the interval by multiplying the rate times the length of the age interval and then dividing by the adjustment factor.

The next two life table columns, l_x and ${}_nd_x$, are interrelated. The first row of column l_x is the beginning cohort of 100,000 live births (radix) used as a starting point for any life table. The first row of column ${}_nd_x$ is the number of those 100,000 who die during this age interval. For each of the succeeding age groups, l_x is the number from the original cohort of 100,000 births who survive to the exact age at the beginning of the age interval. This number is computed by

subtracting the number dying, or ${}_nd_x$, in the previous age interval from the number alive at the beginning of that previous interval. The number dying is computed by applying the probability of dying during the interval, ${}_nQ_x$, to the number alive at the beginning of the interval l_x. Columns ${}_nL_x$ and T_x are both related to the stationary population. ${}_nL_x$ differs from l_x in that l_x is the number of survivors from a single birth cohort of 100,000 births who survive *to* the beginning of an age interval, while ${}_nL_x$ is the total number of survivors *within* the age interval based on multiple birth cohorts of 100,000 births each, the number of cohorts depending on the number of years in the age interval identified. For example, the first age group in the life table consists of one birth cohort of 100,000 births. The second age interval is a 4-year interval composed of four birth cohorts totaling 400,000 births. The remaining age groups (with the exception of 85+ years) are in 5-year intervals of five birth cohorts totaling 500,000 births as a beginning population. The ${}_nL_x$ is computed by multiplying the number of single cohort survivors at the beginning of the interval, or l_x, by the number of cohorts, the number left alive at age x (based on the size of the age interval) within the age interval and then subtracting deaths for the age interval, ${}_nd_x$.

The total number of survivors in the specified age group and all older age groups is T_x. It is computed by adding ${}_nL_x$ for the specified age interval to the sum of the ${}_nL_x$'s of older age groups.

Finally, e_x^0, or life expectancy is computed by dividing T_x by l_x for each age interval.

ADJUSTING FOR MISREPORTING OF INDIAN RACE ON STATE DEATH CERTIFICATES

Misreporting of Indian race on state death certificates occurs, especially in areas distant from traditional Indian reservations. In order to determine the degree and scope of the misreporting, IHS conducted a study utilizing the NDI maintained by the NCHS. The study involved matching IHS patient records of those patients who could have died during 2018 through 2020 with all death records of U.S. residents for 2018 through 2020 as contained on the NDI. The results were originally published in the document entitled, *Adjusting for Miscoding of Indian Race on State Death Certificates*, November 1996. The first study revealed that on 10.9 percent of the matched IHS-NDI records, the race reported for the decedent was other than AI/AN. The percentage of records with inconsistent classification of race ranged from 1.2 percent in the Navajo Area to 28.0 and 30.4 percent in the Oklahoma City and California Areas, respectively. This work uses tables for IHS Area of residence from a 2012 study conducted jointly with the Bureau of the Census and the National Death Index which are given in Appendix B

The results of the NDI studies provided sufficient numbers to calculate adjustments for each IHS Area, IHS overall, and U.S. All Races. In addition to these adjustments based on the study findings, IHS assumed the following: a) the results from 2018-2020 apply to years beyond 2020 and b) IHS age-group adjustments applied also to each Area. The IHS deems it necessary to adjust all the death data in this report to provide a meaningful and comprehensive look at life expectancy and that they are reasonable adjustments.

The IHS has more specific adjustment factors for the age group less than 1-year. These are derived from the linked birth/infant death data sets produced by the NCHS. The IHS is assuming that data years 2018-2020 can be adjusted based on the results from prior years of the linked data sets. These adjustments for 2018-2020 take precedent over the NDI adjustment for the under 1-year age group, described above. Adjusted life expectancies are considered a more accurate representation of AI/AN life expectancy than actual life expectancies based on unadjusted figures. Therefore, the analysis in this report is based upon adjusted life expectancies.

TABLE A1. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **BOTH SEXES IN ALL 12 IHS AREAS**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0052	100,000	525	99,738	7,370,911	73.7
1-4 years	0.0012	99,475	121	397,658	7,271,173	73.1
5-14 years	0.0019	99,354	185	992,615	6,873,515	69.2
15-24 years	0.0122	99,169	1,210	985,640	5,880,900	59.3
25-34 years	0.0308	97,959	3,018	964,500	4,895,260	50.0
35-44 years	0.0446	94,941	4,232	928,250	3,930,760	41.4
45-54 years	0.0743	90,709	6,742	873,380	3,002,510	33.1
55-64 years	0.1327	83,967	11,145	783,945	2,129,130	25.4
65-74 years	0.2303	72,822	16,772	644,360	1,345,185	18.5
75-84 years	0.4231	56,050	23,714	441,930	700,825	12.5
85+ years	1	32,336	32,336	258,895	258,895	8.0

Life expectancy at birth is 73.7 years.

For individuals between the ages of 15-24, the probability of dying is 0.0122 assuming that 99,169 survive to that age. This rate indicates that 1,210 individuals will perish, but this group will live a total of 985,640 years over this specific period with the total number of years lived for the age group being 5,880,900. This indicates that within the age group of 15-24, these individuals are expected to live 59.3 years.

For individuals between the ages of 25-34, the probability of dying is 0.0308 assuming that 97,959 survive to that age. This rate indicates that 3,018 individuals will perish, but this group will live a total of 964,500 years over this specific period with the total number of years lived for the age group being 4,895,260. This indicates that within the age group of 25-34, these individuals are expected to live 50.0 years.

For individuals between the ages of 35-44, the probability of dying is 0.0446 assuming that 94,941 survive to that age. This rate indicates that 4,232 individuals will perish, but this group will live a total of 928,250 years over this specific period with the total number of years lived for the age group being 3,930,760. This indicates that within the age group of 35-44, these individuals are expected to live 41.4 years.

For individuals between the ages of 55-64, the probability of dying is 0.1327 assuming that 83,967 survive to that age. This rate indicates that 11,145 individuals will perish, but this group will live a total of 783,945 years over this specific period with the total number of years lived for the age group being 2,129,130. This indicates that within the age group of 55-64, these individuals are expected to live 25.4 years.

TABLE A2. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **BOTH SEXES IN ALASKA AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0081	100,000	812	99,594	6,945,197	69.5
1-4 years	0.0027	99,188	266	396,220	6,845,603	69.0
5-14 years	0.0046	98,922	453	986,955	6,449,383	65.2
15-24 years	0.0235	98,469	2,319	973,095	5,462,428	55.5
25-34 years	0.0475	96,150	4,564	938,680	4,489,333	46.7
35-44 years	0.0599	91,586	5,490	888,410	3,550,653	38.8
45-54 years	0.0893	86,096	7,688	822,520	2,662,243	30.9
55-64 years	0.1437	78,408	11,269	727,735	1,839,723	23.5
65-74 years	0.2441	67,139	16,387	589,455	1,111,988	16.6
75-84 years	0.523	50,752	26,541	374,815	522,533	10.3
85+ years	1	24,211	24,211	147,718	147,718	6.1

Life expectancy at birth is 69.5 years.

For individuals between the ages of 15-24, the probability of dying is 0.0235 assuming that 98,469 survive to that age. This rate indicates that 2,319 individuals will perish, but this group will live a total of 973,095 years over this specific period with the total number of years lived for the age group being 5,462,428. This indicates that within the age group of 15-24, these individuals are expected to live 55.5 years.

For individuals between the ages of 25-34, the probability of dying is 0.0475 assuming that 96,150 survive to that age. This rate indicates that 4,564 individuals will perish, but this group will live a total of 938,680 years over this specific period with the total number of years lived for the age group being 4,489,333. This indicates that within the age group of 25-34, these individuals are expected to live 46.7 years.

For individuals between the ages of 35-44, the probability of dying is 0.0599 assuming that 91,586 survive to that age. This rate indicates that 5,490 individuals will perish, but this group will live a total of 888,410 years over this specific period with the total number of years lived for the age group being 3,550,653. This indicates that within the age group of 35-44, these individuals are expected to live 38.8 years.

For individuals between the ages of 55-64, the probability of dying is 0.1437 assuming that 78,408 survive to that age. This rate indicates that 11,269 individuals will perish, but this group will live a total of 727,735 years over this specific period with the total number of years lived for the age group being 1,839,723. This indicates that within the age group of 55-64, these individuals are expected to live 23.5 years.

TABLE A3. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **BOTH SEXES IN ALBUQUERQUE AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.004	100,000	402	99,799	7,454,952	74.6
1-4 years	0.0005	99,598	54	398,284	7,355,153	73.9
5-14 years	0.0014	99,544	141	994,735	6,956,869	69.9
15-24 years	0.0128	99,403	1,269	987,685	5,962,134	60.0
25-34 years	0.0413	98,134	4,052	961,080	4,974,449	50.7
35-44 years	0.0606	94,082	5,706	912,290	4,013,369	42.7
45-54 years	0.091	88,376	8,041	843,555	3,101,079	35.1
55-64 years	0.1098	80,335	8,823	759,235	2,257,524	28.1
65-74 years	0.193	71,512	13,801	646,115	1,498,289	21.0
75-84 years	0.3568	57,711	20,590	474,160	852,174	14.8
85+ years	1	37,121	37,121	378,014	378,014	10.2

Life expectancy at birth is 74.6 years.

For individuals between the ages of 15-24, the probability of dying is 0.0128 assuming that 99,403 survive to that age. This rate indicates that 1,269 individuals will perish, but this group will live a total of 987,685 years over this specific period with the total number of years lived for the age group being 5,962,134. This indicates that within the age group of 15-24, these individuals are expected to live 60.0 years.

For individuals between the ages of 25-34, the probability of dying is 0.0413 assuming that 98,134 survive to that age. This rate indicates that 4,052 individuals will perish, but this group will live a total of 961,080 years over this specific period with the total number of years lived for the age group being 4,974,449. This indicates that within the age group of 25-34, these individuals are expected to live 50.7 years.

For individuals between the ages of 35-44, the probability of dying is 0.0606 assuming that 94,082 survive to that age. This rate indicates that 5,706 individuals will perish, but this group will live a total of 912,290 years over this specific period with the total number of years lived for the age group being 4,013,369. This indicates that within the age group of 35-44, these individuals are expected to live 42.7 years.

For individuals between the ages of 55-64, the probability of dying is 0.1098 assuming that 80,335 survive to that age. This rate indicates that 8,823 individuals will perish, but this group will live a total of 759,235 years over this specific period with the total number of years lived for the age group being 2,257,524. This indicates that within the age group of 55-64, these individuals are expected to live 28.1 years.

TABLE A4. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **BOTH SEXES IN BEMIDJI AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0079	100,000	792	99,604	6,904,376	69.0
1-4 years	0.0018	99,208	182	396,468	6,804,772	68.6
5-14 years	0.0024	99,026	235	989,085	6,408,304	64.7
15-24 years	0.0176	98,791	1,742	979,200	5,419,219	54.9
25-34 years	0.0476	97,049	4,615	947,415	4,440,019	45.8
35-44 years	0.0585	92,434	5,408	897,300	3,492,604	37.8
45-54 years	0.1004	87,026	8,740	826,560	2,595,304	29.8
55-64 years	0.1664	78,286	13,026	717,730	1,768,744	22.6
65-74 years	0.3029	65,260	19,769	553,755	1,051,014	16.1
75-84 years	0.5321	45,491	24,204	333,890	497,259	10.9
85+ years	1	21,287	21,287	163,369	163,369	7.7

Life expectancy at birth is 69.0 years.

For individuals between the ages of 15-24, the probability of dying is 0.0176 assuming that 98,791 survive to that age. This rate indicates that 1,742 individuals will perish, but this group will live a total of 979,200 years over this specific period with the total number of years lived for the age group being 5,419,219. This indicates that within the age group of 15-24, these individuals are expected to live 54.9 years.

For individuals between the ages of 25-34, the probability of dying is 0.0476 assuming that 97,049 survive to that age. This rate indicates that 4,615 individuals will perish, but this group will live a total of 947,415 years over this specific period with the total number of years lived for the age group being 4,440,019. This indicates that within the age group of 25-34, these individuals are expected to live 45.8 years.

For individuals between the ages of 35-44, the probability of dying is 0.0585 assuming that 92,434 survive to that age. This rate indicates that 5,408 individuals will perish, but this group will live a total of 897,300 years over this specific period with the total number of years lived for the age group being 3,492,604. This indicates that within the age group of 35-44, these individuals are expected to live 37.8 years.

For individuals between the ages of 55-64, the probability of dying is 0.1664 assuming that 78,286 survive to that age. This rate indicates that 13,026 individuals will perish, but this group will live a total of 717,730 years over this specific period with the total number of years lived for the age group being 1,768,744. This indicates that within the age group of 55-64, these individuals are expected to live 22.6 years.

TABLE A5. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **BOTH SEXES IN BILLINGS AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0097	100,000	975	99,512	6,311,068	63.1
1-4 years	0.0018	99,025	179	395,742	6,211,556	62.7
5-14 years	0.0047	98,846	468	986,120	5,815,814	58.8
15-24 years	0.0305	98,378	2,997	968,795	4,829,694	49.1
25-34 years	0.0629	95,381	5,996	923,830	3,860,899	40.5
35-44 years	0.0996	89,385	8,905	849,325	2,937,069	32.9
45-54 years	0.1523	80,480	12,260	743,500	2,087,744	25.9
55-64 years	0.2198	68,220	14,994	607,230	1,344,244	19.7
65-74 years	0.359	53,226	19,110	436,710	737,014	13.9
75-84 years	0.6436	34,116	21,957	231,375	300,304	8.8
85+ years	1	12,159	12,159	68,929	68,929	5.7

Life expectancy at birth is 63.1 years.

For individuals between the ages of 15-24, the probability of dying is 0.0305 assuming that 98,378 survive to that age. This rate indicates that 2,997 individuals will perish, but this group will live a total of 968,795 years over this specific period with the total number of years lived for the age group being 4,829,694. This indicates that within the age group of 15-24, these individuals are expected to live 49.1 years.

For individuals between the ages of 25-34, the probability of dying is 0.0629 assuming that 95,381 survive to that age. This rate indicates that 5,996 individuals will perish, but this group will live a total of 923,830 years over this specific period with the total number of years lived for the age group being 3,860,899. This indicates that within the age group of 25-34, these individuals are expected to live 40.5 years.

For individuals between the ages of 35-44, the probability of dying is 0.0996 assuming that 89,385 survive to that age. This rate indicates that 8,905 individuals will perish, but this group will live a total of 849,325 years over this specific period with the total number of years lived for the age group being 2,937,069. This indicates that within the age group of 35-44, these individuals are expected to live 32.9 years.

For individuals between the ages of 55-64, the probability of dying is 0.2198 assuming that 68,220 survive to that age. This rate indicates that 14,994 individuals will perish, but this group will live a total of 607,230 years over this specific period with the total number of years lived for the age group being 1,344,244. This indicates that within the age group of 55-64, these individuals are expected to live 19.7 years.

TABLE A6. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **BOTH SEXES IN CALIFORNIA AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0038	100,000	382	99,809	7,956,277	79.6
1-4 years	0.0009	99,618	89	398,294	7,856,468	78.9
5-14 years	0.001	99,529	104	994,770	7,458,174	74.9
15-24 years	0.0076	99,425	760	990,450	6,463,404	65.0
25-34 years	0.0157	98,665	1,547	978,915	5,472,954	55.5
35-44 years	0.0238	97,118	2,314	959,610	4,494,039	46.3
45-54 years	0.0457	94,804	4,329	926,395	3,534,429	37.3
55-64 years	0.0915	90,475	8,277	863,365	2,608,034	28.8
65-74 years	0.1719	82,198	14,129	751,335	1,744,669	21.2
75-84 years	0.3545	68,069	24,132	560,030	993,334	14.6
85+ years	1	43,937	43,937	433,304	433,304	9.9

Life expectancy at birth is 79.6 years.

For individuals between the ages of 15-24, the probability of dying is 0.0076 assuming that 99,425 survive to that age. This rate indicates that 760 individuals will perish, but this group will live a total of 990,450 years over this specific period with the total number of years lived for the age group being 6,463,404. This indicates that within the age group of 15-24, these individuals are expected to live 65.0 years.

For individuals between the ages of 25-34, the probability of dying is 0.0157 assuming that 98,665 survive to that age. This rate indicates that 1,547 individuals will perish, but this group will live a total of 978,915 years over this specific period with the total number of years lived for the age group being 5,472,954. This indicates that within the age group of 25-34, these individuals are expected to live 55.5 years.

For individuals between the ages of 35-44, the probability of dying is 0.0238 assuming that 97,118 survive to that age. This rate indicates that 2,314 individuals will perish, but this group will live a total of 959,610, years over this specific period with the total number of years lived for the age group being 4,494,039. This indicates that within the age group of 35-44, these individuals are expected to live 46.3 years.

For individuals between the ages of 55-64, the probability of dying is 0.0915 assuming that 90,475 survive to that age. This rate indicates that 8,277 individuals will perish, but this group will live a total of 863,365 years over this specific period with the total number of years lived for the age group being 2,608,034. This indicates that within the age group of 55-64, these individuals are expected to live 28.8 years.

TABLE A7. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **BOTH SEXES IN GREAT PLAINS AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0076	100,000	756	99,622	6,714,416	67.1
1-4 years	0.0019	99,244	193	396,590	6,614,794	66.7
5-14 years	0.0033	99,051	325	988,885	6,218,204	62.8
15-24 years	0.0198	98,726	1,954	977,490	5,229,319	53.0
25-34 years	0.0506	96,772	4,900	943,220	4,251,829	43.9
35-44 years	0.0731	91,872	6,719	885,125	3,308,609	36.0
45-54 years	0.1213	85,153	10,328	799,890	2,423,484	28.5
55-64 years	0.189	74,825	14,143	677,535	1,623,594	21.7
65-74 years	0.329	60,682	19,965	506,995	946,059	15.6
75-84 years	0.5393	40,717	21,958	297,380	439,064	10.8
85+ years	1	18,759	18,759	141,684	141,684	7.6

Life expectancy at birth is 67.1 years.

For individuals between the ages of 15-24, the probability of dying is 0.0198 assuming that 98,726 survive to that age. This rate indicates that 1,954 individuals will perish, but this group will live a total of 977,490 years over this specific period with the total number of years lived for the age group being 5,229,319. This indicates that within the age group of 15-24, these individuals are expected to live 53.0 years.

For individuals between the ages of 25-34, the probability of dying is 0.0506 assuming that 96,772 survive to that age. This rate indicates that 4,900 individuals will perish, but this group will live a total of 943,220 years over this specific period with the total number of years lived for the age group being 4,251,829. This indicates that within the age group of 25-34, these individuals are expected to live 43.9 years.

For individuals between the ages of 35-44, the probability of dying is 0.0731 assuming that 91,872 survive to that age. This rate indicates that 6,719 individuals will perish, but this group will live a total of 885,125 years over this specific period with the total number of years lived for the age group being 3,308,609. This indicates that within the age group of 35-44, these individuals are expected to live 36.0 years.

For individuals between the ages of 55-64, the probability of dying is 0.189 assuming that 74,825 survive to that age. This rate indicates that 14,143 individuals will perish, but this group will live a total of 677,535 years over this specific period with the total number of years lived for the age group being 1,623,594. This indicates that within the age group of 55-64, these individuals are expected to live 21.7 years.

TABLE A8. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **BOTH SEXES IN NASHVILLE AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.003	100,000	305	99,848	8,577,468	85.8
1-4 years	0.0008	99,695	79	398,622	8,477,620	85.0
5-14 years	0.0008	99,616	83	995,745	8,078,998	81.1
15-24 years	0.0067	99,533	667	991,995	7,083,253	71.2
25-34 years	0.014	98,866	1,381	981,755	6,091,258	61.6
35-44 years	0.025	97,485	2,436	962,670	5,109,503	52.4
45-54 years	0.0402	95,049	3,817	931,405	4,146,833	43.6
55-64 years	0.0779	91,232	7,109	876,775	3,215,428	35.2
65-74 years	0.1421	84,123	11,955	781,455	2,338,653	27.8
75-84 years	0.2647	72,168	19,100	626,180	1,557,198	21.6
85+ years	1	53,068	53,068	931,018	931,018	17.5

Life expectancy at birth is 85.8 years.

For individuals between the ages of 15-24, the probability of dying is 0.0067 assuming that 99,533 survive to that age. This rate indicates that 667 individuals will perish, but this group will live a total of 991,995 years over this specific period with the total number of years lived for the age group being 7,083,253. This indicates that within the age group of 15-24, these individuals are expected to live 71.2 years.

For individuals between the ages of 25-34, the probability of dying is 0.014 assuming that 98,866 survive to that age. This rate indicates that 1,381 individuals will perish, but this group will live a total of 981,755 years over this specific period with the total number of years lived for the age group being 6,091,258. This indicates that within the age group of 25-34, these individuals are expected to live 61.6 years.

For individuals between the ages of 35-44, the probability of dying is 0.025 assuming that 97,485 survive to that age. This rate indicates that 2,436 individuals will perish, but this group will live a total of 962,670 years over this specific period with the total number of years lived for the age group being 5,109,503. This indicates that within the age group of 35-44, these individuals are expected to live 52.4 years.

For individuals between the ages of 55-64, the probability of dying is 0.0779 assuming that 91,232 survive to that age. This rate indicates that 7,109 individuals will perish, but this group will live a total of 876.775 years over this specific period with the total number of years lived for the age group being 3,215,428. This indicates that within the age group of 55-64, these individuals are expected to live 35.2 years.

TABLE A9. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **BOTH SEXES IN NAVAJO AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0066	100,000	658	99,671	6,841,094	68.4
1-4 years	0.0016	99,342	158	397,052	6,741,423	67.9
5-14 years	0.0026	99,184	259	990,545	6,344,371	64.0
15-24 years	0.0176	98,925	1,744	980,530	5,353,826	54.1
25-34 years	0.062	97,181	6,029	941,665	4,373,296	45.0
35-44 years	0.0928	91,152	8,458	869,230	3,431,631	37.7
45-54 years	0.1179	82,694	9,749	778,195	2,562,401	31.0
55-64 years	0.143	72,945	10,430	677,300	1,784,206	24.5
65-74 years	0.2344	62,515	14,651	551,895	1,106,906	17.7
75-84 years	0.4306	47,864	20,610	375,590	555,011	11.6
85+ years	1	27,254	27,254	179,421	179,421	6.6

Life expectancy at birth is 68.4 years.

For individuals between the ages of 15-24, the probability of dying is 0.0176 assuming that 98,925 survive to that age. This rate indicates that 1,744 individuals will perish, but this group will live a total of 980,530 years over this specific period with the total number of years lived for the age group being 5,353,826. This indicates that within the age group of 15-24, these individuals are expected to live 54.1 years.

For individuals between the ages of 25-34, the probability of dying is 0.062 assuming that 97,181 survive to that age. This rate indicates that 6,029 individuals will perish, but this group will live a total of 941,665 years over this specific period with the total number of years lived for the age group being 4,373,296. This indicates that within the age group of 25-34, these individuals are expected to live 45.0 years.

For individuals between the ages of 35-44, the probability of dying is 0.0928 assuming that 91,152 survive to that age. This rate indicates that 8,458 individuals will perish, but this group will live a total of 869,230 years over this specific period with the total number of years lived for the age group being 3,431,631. This indicates that within the age group of 35-44, these individuals are expected to live 37.7 years.

For individuals between the ages of 55-64, the probability of dying is 0.143 assuming that 72,945 survive to that age. This rate indicates that 10,430 individuals will perish, but this group will live a total of 677,300 years over this specific period with the total number of years lived for the age group being 1,784,206. This indicates that within the age group of 55-64, these individuals are expected to live 24.5 years.

TABLE A10. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **BOTH SEXES IN OKLAHOMA CITY AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0088	100,000	880	99,560	6,777,089	67.8
1-4 years	0.002	99,120	195	396,090	6,677,529	67.4
5-14 years	0.0028	98,925	277	987,865	6,281,439	63.5
15-24 years	0.0148	98,648	1,462	979,170	5,293,574	53.7
25-34 years	0.0354	97,186	3,443	954,645	4,314,404	44.4
35-44 years	0.0574	93,743	5,380	910,530	3,359,759	35.8
45-54 years	0.1093	88,363	9,661	835,325	2,449,229	27.7
55-64 years	0.2027	78,702	15,955	707,245	1,613,904	20.5
65-74 years	0.3397	62,747	21,314	520,900	906,659	14.5
75-84 years	0.5645	41,433	23,388	297,390	385,759	9.3
85+ years	1	18,045	18,045	88,369	88,369	4.9

Life expectancy at birth is 67.8 years.

For individuals between the ages of 15-24, the probability of dying is 0.0148 assuming that 98,648 survive to that age. This rate indicates that 1,462 individuals will perish, but this group will live a total of 979,170 years over this specific period with the total number of years lived for the age group being 5,293,574. This indicates that within the age group of 15-24, these individuals are expected to live 53.7 years.

For individuals between the ages of 25-34, the probability of dying is 0.0354 assuming that 97,186 survive to that age. This rate indicates that 3,443 individuals will perish, but this group will live a total of 954,645 years over this specific period with the total number of years lived for the age group being 4,314,404. This indicates that within the age group of 25-34, these individuals are expected to live 44.4 years.

For individuals between the ages of 35-44, the probability of dying is 0.0574 assuming that 93,743 survive to that age. This rate indicates that 5,380 individuals will perish, but this group will live a total of 910,530 years over this specific period with the total number of years lived for the age group being 3,359,759. This indicates that within the age group of 35-44, these individuals are expected to live 35.8 years.

For individuals between the ages of 55-64, the probability of dying is 0.2027 assuming that 78,702 survive to that age. This rate indicates that 15,955 individuals will perish, but this group will live a total of 707,245 years over this specific period with the total number of years lived for the age group being 1,613,904. This indicates that within the age group of 55-64, these individuals are expected to live 20.5 years.

TABLE A11. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **BOTH SEXES IN PHOENIX AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0046	100,000	460	99,770	7,505,324	75.1
1-4 years	0.0013	99,540	125	397,910	7,405,554	74.4
5-14 years	0.0016	99,415	157	993,365	7,007,644	70.5
15-24 years	0.0133	99,258	1,321	985,975	6,014,279	60.6
25-34 years	0.0315	97,937	3,088	963,930	5,028,304	51.3
35-44 years	0.0453	94,849	4,294	927,020	4,064,374	42.9
45-54 years	0.0734	90,555	6,651	872,295	3,137,354	34.7
55-64 years	0.1264	83,904	10,604	786,020	2,265,059	27.0
65-74 years	0.198	73,300	14,511	660,445	1,479,039	20.2
75-84 years	0.381	58,789	22,396	475,910	818,594	13.9
85+ years	1	36,393	36,393	342,684	342,684	9.4

Life expectancy at birth is 75.1 years.

For individuals between the ages of 15-24, the probability of dying is 0.0133 assuming that 99,258 survive to that age. This rate indicates that 1,321 individuals will perish, but this group will live a total of 985,975 years over this specific period with the total number of years lived for the age group being 6,014,279. This indicates that within the age group of 15-24, these individuals are expected to live 60.6 years.

For individuals between the ages of 25-34, the probability of dying is 0.0315 assuming that 97,937 survive to that age. This rate indicates that 3,088 individuals will perish, but this group will live a total of 963,930 years over this specific period with the total number of years lived for the age group being 5,028,304. This indicates that within the age group of 25-34, these individuals are expected to live 51.3 years.

For individuals between the ages of 35-44, the probability of dying is 0.0453 assuming that 94,849 survive to that age. This rate indicates that 4,294 individuals will perish, but this group will live a total of 927,020 years over this specific period with the total number of years lived for the age group being 4,064,374. This indicates that within the age group of 35-44, these individuals are expected to live 42.9 years.

For individuals between the ages of 55-64, the probability of dying is 0.1264 assuming that 83,904 survive to that age. This rate indicates that 10,604 individuals will perish, but this group will live a total of 786,020 years over this specific period with the total number of years lived for the age group being 2,265,059. This indicates that within the age group of 55-64, these individuals are expected to live 27.0 years.

TABLE A12. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **BOTH SEXES IN PORTLAND AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0052	100,000	524	99,738	7,589,956	75.9
1-4 years	0.0008	99,476	83	397,738	7,490,218	75.3
5-14 years	0.0011	99,393	108	993,390	7,092,480	71.4
15-24 years	0.0117	99,285	1,164	987,030	6,099,090	61.4
25-34 years	0.024	98,121	2,359	969,415	5,112,060	52.1
35-44 years	0.0326	95,762	3,122	942,010	4,142,645	43.3
45-54 years	0.0599	92,640	5,551	898,645	3,200,635	34.6
55-64 years	0.1215	87,089	10,584	817,970	2,301,990	26.4
65-74 years	0.2022	76,505	15,466	687,720	1,484,020	19.4
75-84 years	0.4019	61,039	24,534	487,720	796,300	13.1
85+ years	1	36,505	36,505	308,580	308,580	8.5

Life expectancy at birth is 75.9 years.

For individuals between the ages of 15-24, the probability of dying is 0.0117 assuming that 99,285 survive to that age. This rate indicates that 1,164 individuals will perish, but this group will live a total of 987,030 years over this specific period with the total number of years lived for the age group being 6,099,090. This indicates that within the age group of 15-24, these individuals are expected to live 61.4 years.

For individuals between the ages of 25-34, the probability of dying is 0.024 assuming that 98,121 survive to that age. This rate indicates that 2,359 individuals will perish, but this group will live a total of 969,415 years over this specific period with the total number of years lived for the age group being 5,112,060. This indicates that within the age group of 25-34, these individuals are expected to live 52.1 years.

For individuals between the ages of 35-44, the probability of dying is 0.0326 assuming that 95,762 survive to that age. This rate indicates that 3,122 individuals will perish, but this group will live a total of 942,010 years over this specific period with the total number of years lived for the age group being 4,142,645. This indicates that within the age group of 35-44, these individuals are expected to live 43.3 years.

For individuals between the ages of 55-64, the probability of dying is 0.1215 assuming that 87,089 survive to that age. This rate indicates that 10,584 individuals will perish, but this group will live a total of 817,970 years over this specific period with the total number of years lived for the age group being 2,301,990. This indicates that within the age group of 55-64, these individuals are expected to live 26.4 years.

TABLE A13. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **BOTH SEXES IN TUCSON AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0044	100,000	437	99,782	7,403,828	74.0
1-4 years	0.001	99,563	102	398,048	7,304,046	73.4
5-14 years	0.0033	99,461	326	992,980	6,905,998	69.4
15-24 years	0.0103	99,135	1,021	986,245	5,913,018	59.7
25-34 years	0.032	98,114	3,140	965,440	4,926,773	50.2
35-44 years	0.0492	94,974	4,671	926,385	3,961,333	41.7
45-54 years	0.0779	90,303	7,038	867,840	3,034,948	33.6
55-64 years	0.136	83,265	11,322	776,040	2,167,108	26.0
65-74 years	0.2108	71,943	15,168	643,590	1,391,068	19.3
75-84 years	0.3882	56,775	22,041	457,545	747,478	13.2
85+ years	1	34,734	34,734	289,933	289,933	8.4

Life expectancy at birth is 74.0 years.

For individuals between the ages of 15-24, the probability of dying is 0.0103 assuming that 99,135 survive to that age. This rate indicates that 1,021 individuals will perish, but this group will live a total of 986,245 years over this specific period with the total number of years lived for the age group being 5,913,018. This indicates that within the age group of 15-24, these individuals are expected to live 59.7 years.

For individuals between the ages of 25-34, the probability of dying is 0.032 assuming that 98,114 survive to that age. This rate indicates that 3,140 individuals will perish, but this group will live a total of 965,440 years over this specific period with the total number of years lived for the age group being 4,926,773. This indicates that within the age group of 25-34, these individuals are expected to live 50.2 years.

For individuals between the ages of 35-44, the probability of dying is 0.0492 assuming that 94,974 survive to that age. This rate indicates that 4,671 individuals will perish, but this group will live a total of 926,385 years over this specific period with the total number of years lived for the age group being 3,961,333. This indicates that within the age group of 35-44, these individuals are expected to live 41.7 years.

For individuals between the ages of 55-64, the probability of dying is 0.136 assuming that 83,265 survive to that age. This rate indicates that 11,322 individuals will perish, but this group will live a total of 776,040 years over this specific period with the total number of years lived for the age group being 2,167,108. This indicates that within the age group of 55-64, these individuals are expected to live 26.0 years.

TABLE A14. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **MALES IN ALL 12 AREAS**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.006	100,000	599	99,700	7,041,311	70.4
1-4 years	0.0013	99,401	133	397,338	6,941,611	69.8
5-14 years	0.002	99,268	200	991,680	6,544,273	65.9
15-24 years	0.0171	99,068	1,696	982,200	5,552,593	56.1
25-34 years	0.0396	97,372	3,852	954,460	4,570,393	46.9
35-44 years	0.0552	93,520	5,165	909,375	3,615,933	38.7
45-54 years	0.0914	88,355	8,079	843,155	2,706,558	30.6
55-64 years	0.164	80,276	13,165	736,935	1,863,403	23.2
65-74 years	0.2789	67,111	18,716	577,530	1,126,468	16.8
75-84 years	0.4858	48,395	23,513	366,385	548,938	11.3
85+ years	1	24,882	24,882	182,553	182,553	7.3

Life expectancy at birth is 70.4 years.

For individuals between the ages of 15-24, the probability of dying is 0.0171 assuming that 99,068 survive to that age. This rate indicates that 1,696 individuals will perish, but this group will live a total of 982,200 years over this specific period with the total number of years lived for the age group being 5,552,593. This indicates that within the age group of 15-24, these individuals are expected to live 56.1 years.

For individuals between the ages of 25-34, the probability of dying is 0.0396 assuming that 97,372 survive to that age. This rate indicates that 3,852 individuals will perish, but this group will live a total of 954,460 years over this specific period with the total number of years lived for the age group being 4,570,393. This indicates that within the age group of 25-34, these individuals are expected to live 46.9 years.

For individuals between the ages of 35-44, the probability of dying is 0.0552 assuming that 93,520 survive to that age. This rate indicates that 5,165 individuals will perish, but this group will live a total of 909,375 years over this specific period with the total number of years lived for the age group being 3,615,933. This indicates that within the age group of 35-44, these individuals are expected to live 38.7 years.

For individuals between the ages of 55-64, the probability of dying is 0.164 assuming that 80,276 survive to that age. This rate indicates that 13,165 individuals will perish, but this group will live a total of 736,935 years over this specific period with the total number of years lived for the age group being 1,863,403. This indicates that within the age group of 55-64, these individuals are expected to live 23.2 years.

TABLE A15. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **MALES IN ALASKA AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.011	100,000	1,103	99,448	6,614,550	66.2
1-4 years	0.003	98,897	300	394,988	6,515,102	65.9
5-14 years	0.0055	98,597	544	983,250	6,120,114	62.1
15-24 years	0.0317	98,053	3,109	964,985	5,136,864	52.4
25-34 years	0.0511	94,944	4,856	925,160	4,171,879	43.9
35-44 years	0.0682	90,088	6,142	870,170	3,246,719	36.0
45-54 years	0.1051	83,946	8,825	795,335	2,376,549	28.3
55-64 years	0.1763	75,121	13,244	684,990	1,581,214	21.1
65-74 years	0.3024	61,877	18,715	525,195	896,224	14.5
75-84 years	0.6192	43,162	26,727	297,985	371,029	8.6
85+ years	1	16,435	16,435	73,044	73,044	4.4

Life expectancy at birth is 66.2 years.

For individuals between the ages of 15-24, the probability of dying is 0.0317 assuming that 98,053 survive to that age. This rate indicates that 3,109 individuals will perish, but this group will live a total of 964,985 years over this specific period with the total number of years lived for the age group being 5,136,864. This indicates that within the age group of 15-24, these individuals are expected to live 52.4 years.

For individuals between the ages of 25-34, the probability of dying is 0.0511 assuming that 94,944 survive to that age. This rate indicates that 4,856 individuals will perish, but this group will live a total of 925,160 years over this specific period with the total number of years lived for the age group being 4,171,879. This indicates that within the age group of 25-34, these individuals are expected to live 43.9 years.

For individuals between the ages of 35-44, the probability of dying is 0.0682 assuming that 90,088 survive to that age. This rate indicates that 6,142 individuals will perish, but this group will live a total of 870,170 years over this specific period with the total number of years lived for the age group being 3,246,719. This indicates that within the age group of 35-44, these individuals are expected to live 36.0 years.

For individuals between the ages of 55-64, the probability of dying is 0.1763 assuming that 75,121 survive to that age. This rate indicates that 13,244 individuals will perish, but this group will live a total of 684,990 years over this specific period with the total number of years lived for the age group being 1,581,214. This indicates that within the age group of 55-64, these individuals are expected to live 21.1 years.

TABLE A16. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **MALES IN ALBUQUERQUE AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.004	100,000	402	99,799	7,454,952	74.6
1-4 years	0.0005	99,598	54	398,284	7,355,153	73.9
5-14 years	0.0014	99,544	141	994,735	6,956,869	69.9
15-24 years	0.0128	99,403	1,269	987,685	5,962,134	60.0
25-34 years	0.0413	98,134	4,052	961,080	4,974,449	50.7
35-44 years	0.0606	94,082	5,706	912,290	4,013,369	42.7
45-54 years	0.091	88,376	8,041	843,555	3,101,079	35.1
55-64 years	0.1098	80,335	8,823	759,235	2,257,524	28.1
65-74 years	0.193	71,512	13,801	646,115	1,498,289	21.0
75-84 years	0.3568	57,711	20,590	474,160	852,174	14.8
85+ years	1	37,121	37,121	378,014	378,014	10.2

Life expectancy at birth is 74.6 years.

For individuals between the ages of 15-24, the probability of dying is 0.0128 assuming that 99,403 survive to that age. This rate indicates that 1,269 individuals will perish, but this group will live a total of 987,685 years over this specific period with the total number of years lived for the age group being 5,962,134. This indicates that within the age group of 15-24, these individuals are expected to live 60.0 years.

For individuals between the ages of 25-34, the probability of dying is 0.0413 assuming that 98,134 survive to that age. This rate indicates that 4,052 individuals will perish, but this group will live a total of 961,080 years over this specific period with the total number of years lived for the age group being 4,974,449. This indicates that within the age group of 25-34, these individuals are expected to live 50.7 years.

For individuals between the ages of 35-44, the probability of dying is 0.0606 assuming that 94,082 survive to that age. This rate indicates that 5,706 individuals will perish, but this group will live a total of 912,290 years over this specific period with the total number of years lived for the age group being 4,013,369. This indicates that within the age group of 35-44, these individuals are expected to live 42.7 years.

For individuals between the ages of 55-64, the probability of dying is 0.1098 assuming that 80,335 survive to that age. This rate indicates that 8,823 individuals will perish, but this group will live a total of 759,235 years over this specific period with the total number of years lived for the age group being 2,257,524. This indicates that within the age group of 55-64, these individuals are expected to live 28.1 years.

TABLE A17. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **MALES IN BEMIDJI AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0098	100,000	979	99,510	6,429,407	64.3
1-4 years	0.0024	99,021	241	395,602	6,329,897	63.9
5-14 years	0.0027	98,780	266	986,470	5,934,295	60.1
15-24 years	0.0238	98,514	2,340	973,440	4,947,825	50.2
25-34 years	0.0653	96,174	6,284	930,320	3,974,385	41.3
35-44 years	0.0744	89,890	6,686	865,470	3,044,065	33.9
45-54 years	0.1318	83,204	10,969	777,195	2,178,595	26.2
55-64 years	0.2151	72,235	15,540	644,650	1,401,400	19.4
65-74 years	0.3851	56,695	21,832	457,790	756,750	13.4
75-84 years	0.6631	34,863	23,117	233,045	298,960	8.6
85+ years	1	11,746	11,746	65,915	65,915	5.6

Life expectancy at birth is 64.3 years.

For individuals between the ages of 15-24, the probability of dying is 0.0238 assuming that 98,514 survive to that age. This rate indicates that 2,340 individuals will perish, but this group will live a total of 973,440 years over this specific period with the total number of years lived for the age group being 4,947,825. This indicates that within the age group of 15-24, these individuals are expected to live 50.2 years.

For individuals between the ages of 25-34, the probability of dying is 0.0653 assuming that 96,174 survive to that age. This rate indicates that 6,284 individuals will perish, but this group will live a total of 930,320 years over this specific period with the total number of years lived for the age group being 3,974,385. This indicates that within the age group of 25-34, these individuals are expected to live 41.3 years.

For individuals between the ages of 35-44, the probability of dying is 0.0744 assuming that 89,890 survive to that age. This rate indicates that 6,686 individuals will perish, but this group will live a total of 865,470 years over this specific period with the total number of years lived for the age group being 3,044,065. This indicates that within the age group of 35-44, these individuals are expected to live 33.9 years.

For individuals between the ages of 55-64, the probability of dying is 0.2151 assuming that 72,235 survive to that age. This rate indicates that 15,540 individuals will perish, but this group will live a total of 644,650 years over this specific period with the total number of years lived for the age group being 1,401,400. This indicates that within the age group of 55-64, these individuals are expected to live 19.4 years.

TABLE A18. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **MALES IN BILLINGS AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.01	100,000	998	99,501	5,931,690	59.3
1-4 years	0.0025	99,002	246	395,516	5,832,189	58.9
5-14 years	0.003	98,756	300	986,060	5,436,673	55.1
15-24 years	0.0391	98,456	3,846	965,330	4,450,613	45.2
25-34 years	0.0703	94,610	6,648	912,860	3,485,283	36.8
35-44 years	0.1265	87,962	11,130	823,970	2,572,423	29.2
45-54 years	0.1924	76,832	14,781	694,415	1,748,453	22.8
55-64 years	0.2867	62,051	17,788	531,570	1,054,038	17.0
65-74 years	0.4492	44,263	19,884	343,210	522,468	11.8
75-84 years	0.7496	24,379	18,275	152,415	179,258	7.4
85+ years	1	6,104	6,104	26,843	26,843	4.4

Life expectancy at birth is 59.3 years.

For individuals between the ages of 15-24, the probability of dying is 0.0391 assuming that 98,456 survive to that age. This rate indicates that 3,846 individuals will perish, but this group will live a total of 965,330 years over this specific period with the total number of years lived for the age group being 4,450,613. This indicates that within the age group of 15-24, these individuals are expected to live 45.2 years.

For individuals between the ages of 25-34, the probability of dying is 0.0703 assuming that 94,610 survive to that age. This rate indicates that 6,648 individuals will perish, but this group will live a total of 912,860 years over this specific period with the total number of years lived for the age group being 3,485,283. This indicates that within the age group of 25-34, these individuals are expected to live 36.8 years.

For individuals between the ages of 35-44, the probability of dying is 0.1265 assuming that 87,962 survive to that age. This rate indicates that 11,130 individuals will perish, but this group will live a total of 823,970 years over this specific period with the total number of years lived for the age group being 2,572,423. This indicates that within the age group of 35-44, these individuals are expected to live 29.2 years.

For individuals between the ages of 55-64, the probability of dying is 0.2867 assuming that 62,051 survive to that age. This rate indicates that 17,788 individuals will perish, but this group will live a total of 531,570 years over this specific period with the total number of years lived for the age group being 1,054,038. This indicates that within the age group of 55-64, these individuals are expected to live 17.0 years.

TABLE A19. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **MALES IN CALIFORNIA AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0058	100,000	584	99,708	7,317,653	73.2
1-4 years	0.0015	99,416	154	397,356	7,217,945	72.6
5-14 years	0.0016	99,262	162	991,810	6,820,589	68.7
15-24 years	0.0132	99,100	1,306	984,470	5,828,779	58.8
25-34 years	0.0235	97,794	2,300	966,440	4,844,309	49.5
35-44 years	0.0368	95,494	3,517	937,355	3,877,869	40.6
45-54 years	0.0688	91,977	6,329	888,125	2,940,514	32.0
55-64 years	0.1323	85,648	11,329	799,835	2,052,389	24.0
65-74 years	0.2516	74,319	18,700	649,690	1,252,554	16.9
75-84 years	0.4923	55,619	27,383	419,275	602,864	10.8
85+ years	1	28,236	28,236	183,589	183,589	6.5

Life expectancy at birth is 73.2 years.

For individuals between the ages of 15-24, the probability of dying is 0.0132 assuming that 99,100 survive to that age. This rate indicates that 1,306 individuals will perish, but this group will live a total of 984,470 years over this specific period with the total number of years lived for the age group being 5,828,779. This indicates that within the age group of 15-24, these individuals are expected to live 58.8 years.

For individuals between the ages of 25-34, the probability of dying is 0.0235 assuming that 97,794 survive to that age. This rate indicates that 2,300 individuals will perish, but this group will live a total of 966,440 years over this specific period with the total number of years lived for the age group being 4,844,309. This indicates that within the age group of 25-34, these individuals are expected to live 49.5 years.

For individuals between the ages of 35-44, the probability of dying is 0.0368 assuming that 95,494 survive to that age. This rate indicates that 3,517 individuals will perish, but this group will live a total of 937,355 years over this specific period with the total number of years lived for the age group being 3,877,869. This indicates that within the age group of 35-44, these individuals are expected to live 40.6 years.

For individuals between the ages of 55-64, the probability of dying is 0.1323 assuming that 85,648 survive to that age. This rate indicates that 11,329 individuals will perish, but this group will live a total of 799,835 years over this specific period with the total number of years lived for the age group being 2,052,389. This indicates that within the age group of 55-64, these individuals are expected to live 24.0 years.

TABLE A20. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **MALES IN GREAT PLAINS AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0076	100,000	756	99,622	6,714,416	67.1
1-4 years	0.0019	99,244	193	396,590	6,614,794	66.7
5-14 years	0.0033	99,051	325	988,885	6,218,204	62.8
15-24 years	0.0198	98,726	1,954	977,490	5,229,319	53.0
25-34 years	0.0506	96,772	4,900	943,220	4,251,829	43.9
35-44 years	0.0731	91,872	6,719	885,125	3,308,609	36.0
45-54 years	0.1213	85,153	10,328	799,890	2,423,484	28.5
55-64 years	0.189	74,825	14,143	677,535	1,623,594	21.7
65-74 years	0.329	60,682	19,965	506,995	946,059	15.6
75-84 years	0.5393	40,717	21,958	297,380	439,064	10.8
85+ years	1	18,759	18,759	141,684	141,684	7.6

Life expectancy at birth is 67.1 years.

For individuals between the ages of 15-24, the probability of dying is 0.0198 assuming that 98,726 survive to that age. This rate indicates that 1,954 individuals will perish, but this group will live a total of 977,490 years over this specific period with the total number of years lived for the age group being 5,229,319. This indicates that within the age group of 15-24, these individuals are expected to live 53.0 years.

For individuals between the ages of 25-34, the probability of dying is 0.0506 assuming that 96,772 survive to that age. This rate indicates that 4,900 individuals will perish, but this group will live a total of 943,220 years over this specific period with the total number of years lived for the age group being 4,251,829. This indicates that within the age group of 25-34, these individuals are expected to live 43.9 years.

For individuals between the ages of 35-44, the probability of dying is 0.0731 assuming that 91,872 survive to that age. This rate indicates that 6,719 individuals will perish, but this group will live a total of 885,125 years over this specific period with the total number of years lived for the age group being 3,308,609. This indicates that within the age group of 35-44, these individuals are expected to live 36.0 years.

For individuals between the ages of 55-64, the probability of dying is 0.189 assuming that 74,825 survive to that age. This rate indicates that 14,143 individuals will perish, but this group will live a total of 677,535 years over this specific period with the total number of years lived for the age group being 1,623,594. This indicates that within the age group of 55-64, these individuals are expected to live 21.7 years.

TABLE A21. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **MALES IN NASHVILLE AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0038	100,000	375	99,812	8,101,408	81.0
1-4 years	0.0012	99,625	116	398,268	8,001,596	80.3
5-14 years	0.0008	99,509	76	994,710	7,603,328	76.4
15-24 years	0.0097	99,433	966	989,500	6,608,618	66.5
25-34 years	0.0197	98,467	1,937	974,985	5,619,118	57.1
35-44 years	0.0323	96,530	3,119	949,705	4,644,133	48.1
45-54 years	0.0482	93,411	4,501	911,605	3,694,428	39.6
55-64 years	0.096	88,910	8,535	846,425	2,782,823	31.3
65-74 years	0.1799	80,375	14,455	731,475	1,936,398	24.1
75-84 years	0.3129	65,920	20,629	556,055	1,204,923	18.3
85+ years	1	45,291	45,291	648,868	648,868	14.3

Life expectancy at birth is 81.0 years.

For individuals between the ages of 15-24, the probability of dying is 0.0097 assuming that 99,443 survive to that age. This rate indicates that 966 individuals will perish, but this group will live a total of 989,500 years over this specific period with the total number of years lived for the age group being 6,608,618. This indicates that within the age group of 15-24, these individuals are expected to live 66.5 years.

For individuals between the ages of 25-34, the probability of dying is 0.0197 assuming that 98,467 survive to that age. This rate indicates that 1,937 individuals will perish, but this group will live a total of 974,985 years over this specific period with the total number of years lived for the age group being 5,619,118. This indicates that within the age group of 25-34, these individuals are expected to live 57.1 years.

For individuals between the ages of 35-44, the probability of dying is 0.0323 assuming that 96,530 survive to that age. This rate indicates that 3,119 individuals will perish, but this group will live a total of 949,705 years over this specific period with the total number of years lived for the age group being 4,644,133. This indicates that within the age group of 35-44, these individuals are expected to live 48.1 years.

For individuals between the ages of 55-64, the probability of dying is 0.096 assuming that 88,910 survive to that age. This rate indicates that 8,535 individuals will perish, but this group will live a total of 846,425 years over this specific period with the total number of years lived for the age group being 2,782,823. This indicates that within the age group of 55-64, these individuals are expected to live 31.3 years.

TABLE A22. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **MALES IN NAVAJO AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0068	100,000	682	99,659	6,314,596	63.2
1-4 years	0.0013	99,318	125	397,022	6,214,937	62.6
5-14 years	0.003	99,193	297	990,445	5,817,915	58.7
15-24 years	0.0264	98,896	2,607	975,925	4,827,470	48.8
25-34 years	0.0862	96,289	8,298	921,400	3,851,545	40.0
35-44 years	0.1219	87,991	10,724	826,290	2,930,145	33.3
45-54 years	0.1574	77,267	12,160	711,870	2,103,855	27.2
55-64 years	0.1924	65,107	12,528	588,430	1,391,985	21.4
65-74 years	0.3073	52,579	16,157	445,005	803,555	15.3
75-84 years	0.5436	36,422	19,800	265,220	358,550	9.8
85+ years	1	16,622	16,622	93,330	93,330	5.6

Life expectancy at birth is 63.2 years.

For individuals between the ages of 15-24, the probability of dying is 0.0264 assuming that 98,896 survive to that age. This rate indicates that 2,607 individuals will perish, but this group will live a total of 975,925 years over this specific period with the total number of years lived for the age group being 4,827,470. This indicates that within the age group of 15-24, these individuals are expected to live 48.8 years.

For individuals between the ages of 25-34, the probability of dying is 0.0862 assuming that 96,289 survive to that age. This rate indicates that 8,298 individuals will perish, but this group will live a total of 921,400 years over this specific period with the total number of years lived for the age group being 3,851,545. This indicates that within the age group of 25-34, these individuals are expected to live 40.0 years.

For individuals between the ages of 35-44, the probability of dying is 0.1219 assuming that 87,991 survive to that age. This rate indicates that 10,724 individuals will perish, but this group will live a total of 826,290 years over this specific period with the total number of years lived for the age group being 2,930,145. This indicates that within the age group of 35-44, these individuals are expected to live 33.3 years.

For individuals between the ages of 55-64, the probability of dying is 0.1924 assuming that 65,107 survive to that age. This rate indicates that 12,528 individuals will perish, but this group will live a total of 588,430 years over this specific period with the total number of years lived for the age group being 1,391,985. This indicates that within the age group of 55-64, these individuals are expected to live 21.4 years.

TABLE A23. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **MALES IN OKLAHOMA CITY AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0119	100,000	1,193	99,404	6,150,621	61.5
1-4 years	0.0026	98,807	256	394,716	6,051,217	61.2
5-14 years	0.0039	98,551	384	983,590	5,656,501	57.4
15-24 years	0.0238	98,167	2,335	969,995	4,672,911	47.6
25-34 years	0.0553	95,832	5,303	931,805	3,702,916	38.6
35-44 years	0.0861	90,529	7,795	866,315	2,771,111	30.6
45-54 years	0.1627	82,734	13,460	760,040	1,904,796	23.0
55-64 years	0.2938	69,274	20,353	590,975	1,144,756	16.5
65-74 years	0.4729	48,921	23,133	373,545	553,781	11.3
75-84 years	0.7498	25,788	19,337	161,195	180,236	7.0
85+ years	1	6,451	6,451	19,041	19,041	3.0

Life expectancy at birth is 61.5 years.

For individuals between the ages of 15-24, the probability of dying is 0.0238 assuming that 98,167 survive to that age. This rate indicates that 2,335 individuals will perish, but this group will live a total of 969,995 years over this specific period with the total number of years lived for the age group being 4,672,911. This indicates that within the age group of 15-24, these individuals are expected to live 47.6 years.

For individuals between the ages of 25-34, the probability of dying is 0.0553 assuming that 95,832 survive to that age. This rate indicates that 5,303 individuals will perish, but this group will live a total of 931,805 years over this specific period with the total number of years lived for the age group being 3,702,916. This indicates that within the age group of 25-34, these individuals are expected to live 38.6 years.

For individuals between the ages of 35-44, the probability of dying is 0.0861 assuming that 90,529 survive to that age. This rate indicates that 7,795 individuals will perish, but this group will live a total of 866,315 years over this specific period with the total number of years lived for the age group being 2,771,111. This indicates that within the age group of 35-44, these individuals are expected to live 30.6 years.

For individuals between the ages of 55-64, the probability of dying is 0.2938 assuming that 69,274 survive to that age. This rate indicates that 20,353 individuals will perish, but this group will live a total of 590,975 years over this specific period with the total number of years lived for the age group being 1,144,756. This indicates that within the age group of 55-64, these individuals are expected to live 16.5 years.

TABLE A24. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **MALES IN PHOENIX AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0045	100,000	449	99,776	7,124,765	71.3
1-4 years	0.0013	99,551	126	397,952	7,024,989	70.6
5-14 years	0.002	99,425	197	993,265	6,627,037	66.7
15-24 years	0.0192	99,228	1,910	982,730	5,633,772	56.8
25-34 years	0.0424	97,318	4,126	952,550	4,651,042	47.8
35-44 years	0.0564	93,192	5,252	905,660	3,698,492	39.7
45-54 years	0.0885	87,940	7,785	840,475	2,792,832	31.8
55-64 years	0.1592	80,155	12,764	737,730	1,952,357	24.4
65-74 years	0.239	67,391	16,107	593,375	1,214,627	18.0
75-84 years	0.4477	51,284	22,959	398,045	621,252	12.1
85+ years	1	28,325	28,325	223,207	223,207	7.9

Life expectancy at birth is 71.3 years.

For individuals between the ages of 15-24, the probability of dying is 0.0192 assuming that 99,228 survive to that age. This rate indicates that 1,910 individuals will perish, but this group will live a total of 982,730 years over this specific period with the total number of years lived for the age group being 5,633,772. This indicates that within the age group of 15-24, these individuals are expected to live 56.8 years.

For individuals between the ages of 25-34, the probability of dying is 0.0424 assuming that 97,318 survive to that age. This rate indicates that 4,126 individuals will perish, but this group will live a total of 952,550 years over this specific period with the total number of years lived for the age group being 4,651,042. This indicates that within the age group of 25-34, these individuals are expected to live 47.8 years.

For individuals between the ages of 35-44, the probability of dying is 0.0564 assuming that 93,192 survive to that age. This rate indicates that 5,252 individuals will perish, but this group will live a total of 905,660 years over this specific period with the total number of years lived for the age group being 3,698,492. This indicates that within the age group of 35-44, these individuals are expected to live 39.7 years.

For individuals between the ages of 55-64, the probability of dying is 0.1592 assuming that 80,155 survive to that age. This rate indicates that 12,764 individuals will perish, but this group will live a total of 737,730 years over this specific period with the total number of years lived for the age group being 1,952,357. This indicates that within the age group of 55-64, these individuals are expected to live 24.4 years.

TABLE A25. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **MALES IN PORTLAND AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0064	100,000	639	99,680	7,243,814	72.4
1-4 years	0.001	99,361	96	397,252	7,144,134	71.9
5-14 years	0.0016	99,265	157	991,865	6,746,882	68.0
15-24 years	0.0172	99,108	1,705	982,555	5,755,017	58.1
25-34 years	0.0314	97,403	3,063	958,715	4,772,462	49.0
35-44 years	0.0412	94,340	3,883	923,985	3,813,747	40.4
45-54 years	0.0733	90,457	6,627	871,435	2,889,762	32.0
55-64 years	0.146	83,830	12,240	777,100	2,018,327	24.1
65-74 years	0.2564	71,590	18,354	624,130	1,241,227	17.3
75-84 years	0.465	53,236	24,754	408,590	617,097	11.6
85+ years	1	28,482	28,482	208,507	208,507	7.3

Life expectancy at birth is 72.4 years.

For individuals between the ages of 15-24, the probability of dying is 0.0172 assuming that 99,108 survive to that age. This rate indicates that 1,705 individuals will perish, but this group will live a total of 982,555 years over this specific period with the total number of years lived for the age group being 5,755,017. This indicates that within the age group of 15-24, these individuals are expected to live 58.1 years.

For individuals between the ages of 25-34, the probability of dying is 0.0314 assuming that 97,403 survive to that age. This rate indicates that 3,063 individuals will perish, but this group will live a total of 958,715 years over this specific period with the total number of years lived for the age group being 4,772,462. This indicates that within the age group of 25-34, these individuals are expected to live 49.0 years.

For individuals between the ages of 35-44, the probability of dying is 0.0412 assuming that 94,340 survive to that age. This rate indicates that 3,883 individuals will perish, but this group will live a total of 923,985 years over this specific period with the total number of years lived for the age group being 3,813,747. This indicates that within the age group of 35-44, these individuals are expected to live 40.4 years.

For individuals between the ages of 55-64, the probability of dying is 0.146 assuming that 83,830 survive to that age. This rate indicates that 12,240 individuals will perish, but this group will live a total of 777,100 years over this specific period with the total number of years lived for the age group being 2,018,327. This indicates that within the age group of 55-64, these individuals are expected to live 24.1 years.

TABLE A26. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **MALES IN TUCSON AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0042	100,000	421	99,790	6,964,179	69.6
1-4 years	0.002	99,579	203	397,910	6,864,389	68.9
5-14 years	0.005	99,376	496	991,280	6,466,479	65.1
15-24 years	0.0167	98,880	1,656	980,520	5,475,199	55.4
25-34 years	0.0518	97,224	5,038	947,050	4,494,679	46.2
35-44 years	0.0652	92,186	6,011	891,805	3,547,629	38.5
45-54 years	0.1055	86,175	9,093	816,285	2,655,824	30.8
55-64 years	0.1762	77,082	13,585	702,895	1,839,539	23.9
65-74 years	0.2343	63,497	14,875	560,595	1,136,644	17.9
75-84 years	0.4835	48,622	23,509	368,675	576,049	11.9
85+ years	1	25,113	25,113	207,374	207,374	8.3

Life expectancy at birth is 69.6 years.

For individuals between the ages of 15-24, the probability of dying is 0.0167 assuming that 98,880 survive to that age. This rate indicates that 1,656 individuals will perish, but this group will live a total of 980,520 years over this specific period with the total number of years lived for the age group being 5,475,199. This indicates that within the age group of 15-24, these individuals are expected to live 55.4 years.

For individuals between the ages of 25-34, the probability of dying is 0.0518 assuming that 97,224 survive to that age. This rate indicates that 5,038 individuals will perish, but this group will live a total of 947,050 years over this specific period with the total number of years lived for the age group being 4,494,679. This indicates that within the age group of 25-34, these individuals are expected to live 46.2 years.

For individuals between the ages of 35-44, the probability of dying is 0.0652 assuming that 92,186 survive to that age. This rate indicates that 6,011 individuals will perish, but this group will live a total of 891,805 years over this specific period with the total number of years lived for the age group being 3,547,629. This indicates that within the age group of 35-44, these individuals are expected to live 38.5 years.

For individuals between the ages of 55-64, the probability of dying is 0.1762 assuming that 77,082 survive to that age. This rate indicates that 13,585 individuals will perish, but this group will live a total of 702,895 years over this specific period with the total number of years lived for the age group being 1,839,539. This indicates that within the age group of 55-64, these individuals are expected to live 23.9 years.

TABLE A27. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **FEMALES IN ALL 12 IHS AREAS**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0045	100,000	447	99,776	7,714,062	77.1
1-4 years	0.0011	99,553	109	397,994	7,614,286	76.5
5-14 years	0.0017	99,444	171	993,585	7,216,292	72.6
15-24 years	0.0071	99,273	704	989,210	6,222,707	62.7
25-34 years	0.0215	98,569	2,121	975,085	5,233,497	53.1
35-44 years	0.0337	96,448	3,246	948,250	4,258,412	44.2
45-54 years	0.0573	93,202	5,344	905,300	3,310,162	35.5
55-64 years	0.1039	87,858	9,125	832,955	2,404,862	27.4
65-74 years	0.1877	78,733	14,775	713,455	1,571,907	20.0
75-84 years	0.3726	63,958	23,833	520,415	858,452	13.4
85+ years	1	40,125	40,125	338,037	338,037	8.4

Life expectancy at birth is 77.1 years.

For individuals between the ages of 15-24, the probability of dying is 0.0071 assuming that 99,273 survive to that age. This rate indicates that 704 individuals will perish, but this group will live a total of 989,210 years over this specific period with the total number of years lived for the age group being 6,222,207. This indicates that within the age group of 15-24, these individuals are expected to live 62.7 years.

For individuals between the ages of 25-34, the probability of dying is 0.0215 assuming that 98,569 survive to that age. This rate indicates that 2,121 individuals will perish, but this group will live a total of 975,085 years over this specific period with the total number of years lived for the age group being 5,233,497. This indicates that within the age group of 25-34, these individuals are expected to live 53.1 years.

For individuals between the ages of 35-44, the probability of dying is 0.0337 assuming that 96,448 survive to that age. This rate indicates that 3,246 individuals will perish, but this group will live a total of 948,250 years over this specific period with the total number of years lived for the age group being 4,258,412. This indicates that within the age group of 35-44, these individuals are expected to live 44.2 years.

For individuals between the ages of 55-64, the probability of dying is 0.1039 assuming that 87,858 survive to that age. This rate indicates that 9,125 individuals will perish, but this group will live a total of 832,955 years over this specific period with the total number of years lived for the age group being 2,404,862. This indicates that within the age group of 55-64, these individuals are expected to live 27.4 years.

TABLE A28. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **FEMALES IN ALASKA AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0057	100,000	575	99,712	7,131,318	71.3
1-4 years	0.0024	99,425	242	397,216	7,031,606	70.7
5-14 years	0.0038	99,183	378	989,940	6,634,390	66.9
15-24 years	0.0162	98,805	1,600	980,050	5,644,450	57.1
25-34 years	0.0473	97,205	4,602	949,040	4,664,400	48.0
35-44 years	0.0575	92,603	5,320	899,430	3,715,360	40.1
45-54 years	0.0828	87,283	7,223	836,715	2,815,930	32.3
55-64 years	0.1273	80,060	10,192	749,640	1,979,215	24.7
65-74 years	0.2164	69,868	15,117	623,095	1,229,575	17.6
75-84 years	0.4775	54,751	26,145	416,785	606,480	11.1
85+ years	1	28,606	28,606	189,695	189,695	6.6

Life expectancy at birth is 71.3 years.

For individuals between the ages of 15-24, the probability of dying is 0.0162 assuming that 98,805 survive to that age. This rate indicates that 1,600 individuals will perish, but this group will live a total of 980,050 years over this specific period with the total number of years lived for the age group being 5,644,450. This indicates that within the age group of 15-24, these individuals are expected to live 57.1 years.

For individuals between the ages of 25-34, the probability of dying is 0.0473 assuming that 97,205 survive to that age. This rate indicates that 4,602 individuals will perish, but this group will live a total of 949,040 years over this specific period with the total number of years lived for the age group being 4,664,400. This indicates that within the age group of 25-34, these individuals are expected to live 48.0 years.

For individuals between the ages of 35-44, the probability of dying is 0.0575 assuming that 92,603 survive to that age. This rate indicates that 5,320 individuals will perish, but this group will live a total of 899,430 years over this specific period with the total number of years lived for the age group being 3,715,360. This indicates that within the age group of 35-44, these individuals are expected to live 40.1 years.

For individuals between the ages of 55-64, the probability of dying is 0.1273 assuming that 80,060 survive to that age. This rate indicates that 10,192 individuals will perish, but this group will live a total of 749,640 years over this specific period with the total number of years lived for the age group being 1,979,215. This indicates that within the age group of 55-64, these individuals are expected to live 24.7 years.

TABLE A29. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **FEMALES IN ALBUQUERQUE AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.004	100,000	402	99,799	7,454,952	74.6
1-4 years	0.0005	99,598	54	398,284	7,355,153	73.9
5-14 years	0.0014	99,544	141	994,735	6,956,869	69.9
15-24 years	0.0128	99,403	1,269	987,685	5,962,134	60.0
25-34 years	0.0413	98,134	4,052	961,080	4,974,449	50.7
35-44 years	0.0606	94,082	5,706	912,290	4,013,369	42.7
45-54 years	0.091	88,376	8,041	843,555	3,101,079	35.1
55-64 years	0.1098	80,335	8,823	759,235	2,257,524	28.1
65-74 years	0.193	71,512	13,801	646,115	1,498,289	21.0
75-84 years	0.3568	57,711	20,590	474,160	852,174	14.8
85+ years	1	37,121	37,121	378,014	378,014	10.2

Life expectancy at birth is 74.6 years.

For individuals between the ages of 15-24, the probability of dying is 0.0128 assuming that 99,403 survive to that age. This rate indicates that 1,269 individuals will perish, but this group will live a total of 987,685 years over this specific period with the total number of years lived for the age group being 5,962,134. This indicates that within the age group of 15-24, these individuals are expected to live 60.0 years.

For individuals between the ages of 25-34, the probability of dying is 0.0413 assuming that 98,134 survive to that age. This rate indicates that 4,052 individuals will perish, but this group will live a total of 961,080 years over this specific period with the total number of years lived for the age group being 4,974,449. This indicates that within the age group of 25-34, these individuals are expected to live 50.7 years.

For individuals between the ages of 35-44, the probability of dying is 0.0606 assuming that 94,082 survive to that age. This rate indicates that 5,706 individuals will perish, but this group will live a total of 912,290 years over this specific period with the total number of years lived for the age group being 4,013,369. This indicates that within the age group of 35-44, these individuals are expected to live 42.7 years.

For individuals between the ages of 55-64, the probability of dying is 0.1098 assuming that 80,335 survive to that age. This rate indicates that 8,823 individuals will perish, but this group will live a total of 759,235 years over this specific period with the total number of years lived for the age group being 2,257,524. This indicates that within the age group of 55-64, these individuals are expected to live 28.1 years.

TABLE A30. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **FEMALES IN BEMIDJI AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0084	100,000	837	99,582	6,900,087	69.0
1-4 years	0.0018	99,163	175	396,302	6,800,505	68.6
5-14 years	0.0028	98,988	278	988,490	6,404,203	64.7
15-24 years	0.0165	98,710	1,626	978,970	5,415,713	54.9
25-34 years	0.0433	97,084	4,199	949,845	4,436,743	45.7
35-44 years	0.0628	92,885	5,832	899,690	3,486,898	37.5
45-54 years	0.0988	87,053	8,605	827,505	2,587,208	29.7
55-64 years	0.1659	78,448	13,015	719,405	1,759,703	22.4
65-74 years	0.3008	65,433	19,681	555,925	1,040,298	15.9
75-84 years	0.5281	45,752	24,163	336,705	484,373	10.6
85+ years	1	21,589	21,589	147,668	147,668	6.8

Life expectancy at birth is 69.0 years.

For individuals between the ages of 15-24, the probability of dying is 0.0165 assuming that 98,710 survive to that age. This rate indicates that 1,626 individuals will perish, but this group will live a total of 978,970 years over this specific period with the total number of years lived for the age group being 5,415,713. This indicates that within the age group of 15-24, these individuals are expected to live 54.9 years.

For individuals between the ages of 25-34, the probability of dying is 0.0433 assuming that 97,084 survive to that age. This rate indicates that 4,199 individuals will perish, but this group will live a total of 949,845 years over this specific period with the total number of years lived for the age group being 4,436,743. This indicates that within the age group of 25-34, these individuals are expected to live 45.7 years.

For individuals between the ages of 35-44, the probability of dying is 0.0628 assuming that 92,885 survive to that age. This rate indicates that 5,832 individuals will perish, but this group will live a total of 899,690 years over this specific period with the total number of years lived for the age group being 3,486,898. This indicates that within the age group of 35-44, these individuals are expected to live 37.5 years.

For individuals between the ages of 55-64, the probability of dying is 0.1659 assuming that 78,448 survive to that age. This rate indicates that 13,015 individuals will perish, but this group will live a total of 719,405 years over this specific period with the total number of years lived for the age group being 1,759,703. This indicates that within the age group of 55-64, these individuals are expected to live 22.4 years.

TABLE A31. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **FEMALES IN BILLINGS AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0105	100,000	1,051	99,474	6,527,542	65.3
1-4 years	0.0013	98,949	133	395,530	6,428,068	65.0
5-14 years	0.0068	98,816	677	984,775	6,032,538	61.1
15-24 years	0.024	98,139	2,354	969,620	5,047,763	51.4
25-34 years	0.0618	95,785	5,923	928,235	4,078,143	42.6
35-44 years	0.0827	89,862	7,433	861,455	3,149,908	35.1
45-54 years	0.1292	82,429	10,650	771,040	2,288,453	27.8
55-64 years	0.181	71,779	12,989	652,845	1,517,413	21.1
65-74 years	0.3129	58,790	18,395	495,925	864,568	14.7
75-84 years	0.6137	40,395	24,792	279,990	368,643	9.1
85+ years	1	15,603	15,603	88,653	88,653	5.7

Life expectancy at birth is 65.3 years.

For individuals between the ages of 15-24, the probability of dying is 0.024 assuming that 98,139 survive to that age. This rate indicates that 2,354 individuals will perish, but this group will live a total of 969,620 years over this specific period with the total number of years lived for the age group being 5,047,763. This indicates that within the age group of 15-24, these individuals are expected to live 51.4 years.

For individuals between the ages of 25-34, the probability of dying is 0.0618 assuming that 95,785 survive to that age. This rate indicates that 5,923 individuals will perish, but this group will live a total of 928,235 years over this specific period with the total number of years lived for the age group being 4,078,143. This indicates that within the age group of 25-34, these individuals are expected to live 42.6 years.

For individuals between the ages of 35-44, the probability of dying is 0.0827 assuming that 89,862 survive to that age. This rate indicates that 7,433 individuals will perish, but this group will live a total of 861,455 years over this specific period with the total number of years lived for the age group being 3,149,908. This indicates that within the age group of 35-44, these individuals are expected to live 35.1 years.

For individuals between the ages of 55-64, the probability of dying is 0.181 assuming that 71,779 survive to that age. This rate indicates that 12,989 individuals will perish, but this group will live a total of 652,845 years over this specific period with the total number of years lived for the age group being 1,517,413. This indicates that within the age group of 55-64, these individuals are expected to live 21.1 years.

TABLE A32. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **FEMALES IN CALIFORNIA AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.004	100,000	399	99,800	7,780,339	77.8
1-4 years	0.0008	99,601	84	398,236	7,680,539	77.1
5-14 years	0.0013	99,517	133	994,505	7,282,303	73.2
15-24 years	0.0072	99,384	714	990,270	6,287,798	63.3
25-34 years	0.0204	98,670	2,008	976,660	5,297,528	53.7
35-44 years	0.0283	96,662	2,735	952,945	4,320,868	44.7
45-54 years	0.0521	93,927	4,894	914,800	3,367,923	35.9
55-64 years	0.1047	89,033	9,319	843,735	2,453,123	27.6
65-74 years	0.1854	79,714	14,782	723,230	1,609,388	20.2
75-84 years	0.3813	64,932	24,758	525,530	886,158	13.7
85+ years	1	40,174	40,174	360,628	360,628	9.0

Life expectancy at birth is 77.8 years.

For individuals between the ages of 15-24, the probability of dying is 0.0072, assuming that 99,384 survive to that age. This rate indicates that 714 individuals will perish, but this group will live a total of 990,270 years over this specific period with the total number of years lived for the age group being 6,287,798. This indicates that within the age group of 15-24, these individuals are expected to live 63.3 years.

For individuals between the ages of 25-34, the probability of dying is 0.0204 assuming that 98,670 survive to that age. This rate indicates that 2,008 individuals will perish, but this group will live a total of 976,660 years over this specific period with the total number of years lived for the age group being 5,297,528. This indicates that within the age group of 25-34, these individuals are expected to live 53.7 years.

For individuals between the ages of 35-44, the probability of dying is 0.0283 assuming that 96,662 survive to that age. This rate indicates that 2,735 individuals will perish, but this group will live a total of 952,945 years over this specific period with the total number of years lived for the age group being 4,320,868. This indicates that within the age group of 35-44, these individuals are expected to live 44.7 years.

For individuals between the ages of 55-64, the probability of dying is 0.1047 assuming that 89,033 survive to that age. This rate indicates that 9,319 individuals will perish, but this group will live a total of 843,735 years over this specific period with the total number of years lived for the age group being 2,453,123. This indicates that within the age group of 55-64, these individuals are expected to live 27.6 years.

TABLE A33. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **FEMALES IN GREAT PLAINS AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0076	100,000	756	99,622	6,714,416	67.1
1-4 years	0.0019	99,244	193	396,590	6,614,794	66.7
5-14 years	0.0033	99,051	325	988,885	6,218,204	62.8
15-24 years	0.0198	98,726	1,954	977,490	5,229,319	53.0
25-34 years	0.0506	96,772	4,900	943,220	4,251,829	43.9
35-44 years	0.0731	91,872	6,719	885,125	3,308,609	36.0
45-54 years	0.1213	85,153	10,328	799,890	2,423,484	28.5
55-64 years	0.189	74,825	14,143	677,535	1,623,594	21.7
65-74 years	0.329	60,682	19,965	506,995	946,059	15.6
75-84 years	0.5393	40,717	21,958	297,380	439,064	10.8
85+ years	1	18,759	18,759	141,684	141,684	7.6

Life expectancy at birth is 67.1 years.

For individuals between the ages of 15-24, the probability of dying is 0.0198 assuming that 98,726 survive to that age. This rate indicates that 1,954 individuals will perish, but this group will live a total of 977,490 years over this specific period with the total number of years lived for the age group being 5,229,319. This indicates that within the age group of 15-24, these individuals are expected to live 53.0 years.

For individuals between the ages of 25-34, the probability of dying is 0.0506 assuming that 96,772 survive to that age. This rate indicates that 4,900 individuals will perish, but this group will live a total of 943,220 years over this specific period with the total number of years lived for the age group being 4,251,829. This indicates that within the age group of 25-34, these individuals are expected to live 43.9 years.

For individuals between the ages of 35-44, the probability of dying is 0.0731 assuming that 91,872 survive to that age. This rate indicates that 6,719 individuals will perish, but this group will live a total of 885,125 years over this specific period with the total number of years lived for the age group being 3,308,609. This indicates that within the age group of 35-44, these individuals are expected to live 36.0 years.

For individuals between the ages of 55-64, the probability of dying is 0.189 assuming that 74,825 survive to that age. This rate indicates that 14,143 individuals will perish, but this group will live a total of 677,535 years over this specific period with the total number of years lived for the age group being 1,623,594. This indicates that within the age group of 55-64, these individuals are expected to live 21.7 years.

TABLE A34. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **FEMALES IN NASHVILLE AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0031	100,000	310	99,845	8,549,605	85.5
1-4 years	0.0006	99,690	62	398,636	8,449,760	84.8
5-14 years	0.0012	99,628	123	995,665	8,051,124	80.8
15-24 years	0.0055	99,505	547	992,315	7,055,459	70.9
25-34 years	0.0125	98,958	1,233	983,415	6,063,144	61.3
35-44 years	0.0231	97,725	2,254	965,980	5,079,729	52.0
45-54 years	0.0412	95,471	3,934	935,040	4,113,749	43.1
55-64 years	0.0778	91,537	7,119	879,775	3,178,709	34.7
65-74 years	0.1368	84,418	11,552	786,420	2,298,934	27.2
75-84 years	0.2718	72,866	19,805	629,635	1,512,514	20.8
85+ years	1	53,061	53,061	882,879	882,879	16.6

Life expectancy at birth is 85.5 years.

For individuals between the ages of 15-24, the probability of dying is 0.0055 assuming that 99,505 survive to that age. This rate indicates that 547 individuals will perish, but this group will live a total of 992,315 years over this specific period with the total number of years lived for the age group being 7,055,459. This indicates that within the age group of 15-24, these individuals are expected to live 70.9 years.

For individuals between the ages of 25-34, the probability of dying is 0.0125 assuming that 98,958 survive to that age. This rate indicates that 1,233 individuals will perish, but this group will live a total of 983,415 years over this specific period with the total number of years lived for the age group being 6,063,144. This indicates that within the age group of 25-34, these individuals are expected to live 61.3 years.

For individuals between the ages of 35-44, the probability of dying is 0.0231 assuming that 97,725 survive to that age. This rate indicates that 2,254 individuals will perish, but this group will live a total of 965,980 years over this specific period with the total number of years lived for the age group being 5,079,729. This indicates that within the age group of 35-44, these individuals are expected to live 52.0 years.

For individuals between the ages of 55-64, the probability of dying is 0.0778 assuming that 91,537 survive to that age. This rate indicates that 7,119 individuals will perish, but this group will live a total of 879,775 years over this specific period with the total number of years lived for the age group being 3,178,709. This indicates that within the age group of 55-64, these individuals are expected to live 34.7 years.

TABLE A35. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **FEMALES IN NAVAJO AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0066	100,000	656	99,672	7,379,736	73.8
1-4 years	0.002	99,344	197	396,982	7,280,064	73.3
5-14 years	0.0023	99,147	227	990,335	6,883,082	69.4
15-24 years	0.0093	98,920	922	984,590	5,892,747	59.6
25-34 years	0.0378	97,998	3,707	961,445	4,908,157	50.1
35-44 years	0.0647	94,291	6,100	912,410	3,946,712	41.9
45-54 years	0.0833	88,191	7,345	845,185	3,034,302	34.4
55-64 years	0.1021	80,846	8,252	767,200	2,189,117	27.1
65-74 years	0.1792	72,594	13,011	660,885	1,421,917	19.6
75-84 years	0.358	59,583	21,332	489,170	761,032	12.8
85+ years	1	38,251	38,251	271,862	271,862	7.1

Life expectancy at birth is 73.8 years.

For individuals between the ages of 15-24, the probability of dying is 0.0093 assuming that 98,920 survive to that age. This rate indicates that 922 individuals will perish, but this group will live a total of 984,590 years over this specific period with the total number of years lived for the age group being 5,892,747. This indicates that within the age group of 15-24, these individuals are expected to live 59.6 years.

For individuals between the ages of 25-34, the probability of dying is 0.0378 assuming that 97,998 survive to that age. This rate indicates that 3,707 individuals will perish, but this group will live a total of 961,445 years over this specific period with the total number of years lived for the age group being 4,908,157. This indicates that within the age group of 25-34, these individuals are expected to live 50.1 years.

For individuals between the ages of 35-44, the probability of dying is 0.0647 assuming that 94,291 survive to that age. This rate indicates that 6,100 individuals will perish, but this group will live a total of 912,410 years over this specific period with the total number of years lived for the age group being 3,946,712. This indicates that within the age group of 35-44, these individuals are expected to live 41.9 years.

For individuals between the ages of 55-64, the probability of dying is 0.1021 assuming that 80,846 survive to that age. This rate indicates that 8,252 individuals will perish, but this group will live a total of 767,200 years over this specific period with the total number of years lived for the age group being 2,189,117. This indicates that within the age group of 55-64, these individuals are expected to live 27.1 years.

TABLE A36. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **FEMALES IN OKLAHOMA CITY AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.01	100,000	1,005	99,498	6,651,910	66.5
1-4 years	0.0023	98,995	230	395,520	6,552,412	66.2
5-14 years	0.0032	98,765	316	986,070	6,156,892	62.3
15-24 years	0.0154	98,449	1,519	976,895	5,170,822	52.5
25-34 years	0.0425	96,930	4,115	948,725	4,193,927	43.3
35-44 years	0.0658	92,815	6,110	897,600	3,245,202	35.0
45-54 years	0.1168	86,705	10,126	816,420	2,347,602	27.1
55-64 years	0.2114	76,579	16,188	684,850	1,531,182	20.0
65-74 years	0.353	60,391	21,315	497,335	846,332	14.0
75-84 years	0.5907	39,076	23,081	275,355	348,997	8.9
85+ years	1	15,995	15,995	73,642	73,642	4.6

Life expectancy at birth is 66.5 years.

For individuals between the ages of 15-24, the probability of dying is 0.0154 assuming that 98,449 survive to that age. This rate indicates that 1,519 individuals will perish, but this group will live a total of 976,895 years over this specific period with the total number of years lived for the age group being 5,170,822. This indicates that within the age group of 15-24, these individuals are expected to live 52.5 years.

For individuals between the ages of 25-34, the probability of dying is 0.0425 assuming that 96,930 survive to that age. This rate indicates that 4,115 individuals will perish, but this group will live a total of 948,725 years over this specific period with the total number of years lived for the age group being 4,193,927. This indicates that within the age group of 25-34, these individuals are expected to live 43.3 years.

For individuals between the ages of 35-44, the probability of dying is 0.0658 assuming that 92,815 survive to that age. This rate indicates that 6,110 individuals will perish, but this group will live a total of 897,600 years over this specific period with the total number of years lived for the age group being 3,245,202. This indicates that within the age group of 35-44, these individuals are expected to live 35.0 years.

For individuals between the ages of 55-64, the probability of dying is 0.2114 assuming that 76,579 survive to that age. This rate indicates that 16,188 individuals will perish, but this group will live a total of 684,850 years over this specific period with the total number of years lived for the age group being 1,531,182. This indicates that within the age group of 55-64, these individuals are expected to live 20.0 years.

TABLE A37. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **FEMALES IN PHOENIX AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0051	100,000	512	99,744	7,737,000	77.4
1-4 years	0.0013	99,488	132	397,688	7,637,256	76.8
5-14 years	0.0013	99,356	131	992,905	7,239,568	72.9
15-24 years	0.008	99,225	795	988,275	6,246,663	63.0
25-34 years	0.0221	98,430	2,172	973,440	5,258,388	53.4
35-44 years	0.0372	96,258	3,581	944,675	4,284,948	44.5
45-54 years	0.0643	92,677	5,957	896,985	3,340,273	36.0
55-64 years	0.1068	86,720	9,258	820,910	2,443,288	28.2
65-74 years	0.1792	77,462	13,884	705,200	1,622,378	20.9
75-84 years	0.3563	63,578	22,652	522,520	917,178	14.4
85+ years	1	40,926	40,926	394,658	394,658	9.6

Life expectancy at birth is 77.4 years.

For individuals between the ages of 15-24, the probability of dying is 0.008 assuming that 99,225 survive to that age. This rate indicates that 795 individuals will perish, but this group will live a total of 988,275 years over this specific period with the total number of years lived for the age group being 6,246,663. This indicates that within the age group of 15-24, these individuals are expected to live 63.0 years.

For individuals between the ages of 25-34, the probability of dying is 0.0221 assuming that 98,430 survive to that age. This rate indicates that 2,172 individuals will perish, but this group will live a total of 973,440 years over this specific period with the total number of years lived for the age group being 5,258,388. This indicates that within the age group of 25-34, these individuals are expected to live 53.4 years.

For individuals between the ages of 35-44, the probability of dying is 0.0372 assuming that 96,258 survive to that age. This rate indicates that 3,581 individuals will perish, but this group will live a total of 944,675 years over this specific period with the total number of years lived for the age group being 4,284,948. This indicates that within the age group of 35-44, these individuals are expected to live 44.5 years.

For individuals between the ages of 55-64, the probability of dying is 0.1068 assuming that 86,720 survive to that age. This rate indicates that 9,258 individuals will perish, but this group will live a total of 820,910 years over this specific period with the total number of years lived for the age group being 2,443,288. This indicates that within the age group of 55-64, these individuals are expected to live 28.2 years.

TABLE A38. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **FEMALES IN PORTLAND AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0048	100,000	483	99,758	7,666,272	76.7
1-4 years	0.0009	99,517	88	397,892	7,566,514	76.0
5-14 years	0.0008	99,429	84	993,870	7,168,622	72.1
15-24 years	0.008	99,345	790	989,500	6,174,752	62.2
25-34 years	0.0209	98,555	2,056	975,270	5,185,252	52.6
35-44 years	0.0304	96,499	2,930	950,340	4,209,982	43.6
45-54 years	0.0572	93,569	5,356	908,910	3,259,642	34.8
55-64 years	0.1172	88,213	10,337	830,445	2,350,732	26.7
65-74 years	0.1827	77,876	14,224	707,640	1,520,287	19.5
75-84 years	0.3993	63,652	25,417	509,435	812,647	12.8
85+ years	1	38,235	38,235	303,212	303,212	7.9

Life expectancy at birth is 76.7 years.

For individuals between the ages of 15-24, the probability of dying is 0.008 assuming that 99,345 survive to that age. This rate indicates that 790 individuals will perish, but this group will live a total of 989,500 years over this specific period with the total number of years lived for the age group being 6,174,752. This indicates that within the age group of 15-24, these individuals are expected to live 62.2 years.

For individuals between the ages of 25-34, the probability of dying is 0.0209 assuming that 98,555 survive to that age. This rate indicates that 2,056 individuals will perish, but this group will live a total of 975,270 years over this specific period with the total number of years lived for the age group being 5,185,252. This indicates that within the age group of 25-34, these individuals are expected to live 52.6 years.

For individuals between the ages of 35-44, the probability of dying is 0.0304 assuming that 96,499 survive to that age. This rate indicates that 2,930 individuals will perish, but this group will live a total of 950,340 years over this specific period with the total number of years lived for the age group being 4,209,982. This indicates that within the age group of 35-44, these individuals are expected to live 43.6 years.

For individuals between the ages of 55-64, the probability of dying is 0.1172 assuming that 88,213 survive to that age. This rate indicates that 10,337 individuals will perish, but this group will live a total of 830,445 years over this specific period with the total number of years lived for the age group being 2,350,732. This indicates that within the age group of 55-64, these individuals are expected to live 26.7 years.

TABLE A39. LIFE TABLES FOR AMERICAN INDIANS AND ALASKA NATIVES, **FEMALES IN TUCSON AREA**, 2018-2020 (ADJUSTED)

Period of life between two exact ages stated in years (1)	Probability of dying between ages x and x+1 (2)	Number surviving to age x (3)	Number dying between age x and x+1 (4)	Person-years lived between ages x and x+1 (5)	Total number of person-years lived above age x (6)	Expectation of life at age x (7)
x to x+n	***qx***	***lx***	***dx***	***Lx***	***Tx***	***ex***
Under 1 year	0.0048	100,000	478	99,761	7,767,671	77.7
1-4 years	0.0001	99,522	6	398,076	7,667,910	77.1
5-14 years	0.0016	99,516	155	994,385	7,269,834	73.1
15-24 years	0.004	99,361	393	991,645	6,275,449	63.2
25-34 years	0.0123	98,968	1,214	983,610	5,283,804	53.4
35-44 years	0.0362	97,754	3,538	959,850	4,300,194	44.0
45-54 years	0.0555	94,216	5,229	916,015	3,340,344	35.5
55-64 years	0.1071	88,987	9,528	842,230	2,424,329	27.2
65-74 years	0.2011	79,459	15,976	714,710	1,582,099	19.9
75-84 years	0.33	63,483	20,949	530,085	867,389	13.7
85+ years	1	42,534	42,534	337,304	337,304	7.9

Life expectancy at birth is 77.7 years.

For individuals between the ages of 15-24, the probability of dying is 0.004 assuming that 99,361 survive to that age. This rate indicates that 393 individuals will perish, but this group will live a total of 991,645 years over this specific period with the total number of years lived for the age group being 6,275,449. This indicates that within the age group of 15-24, these individuals are expected to live 63.2 years.

For individuals between the ages of 25-34, the probability of dying is 0.0123 assuming that 98,968 survive to that age. This rate indicates that 1,214 individuals will perish, but this group will live a total of 983,610 years over this specific period with the total number of years lived for the age group being 5,283,804. This indicates that within the age group of 25-34, these individuals are expected to live 53.4 years.

For individuals between the ages of 35-44, the probability of dying is 0.0362 assuming that 97,754 survive to that age. This rate indicates that 3,538 individuals will perish, but this group will live a total of 959,850 years over this specific period with the total number of years lived for the age group being 4,300,194. This indicates that within the age group of 35-44, these individuals are expected to live 44.0 years.

For individuals between the ages of 55-64, the probability of dying is 0.1071 assuming that 88,987 survive to that age. This rate indicates that 9,528 individuals will perish, but this group will live a total of 842,230 years over this specific period with the total number of years lived for the age group being 2,424,329. This indicates that within the age group of 55-64, these individuals are expected to live 27.2 years.

APPENDIX B

Adjusting for Miscoding of Indian Race on State Death Certificates

The mortality adjustment factors by Area used for this report are given immediately below:

Adjustment factor table:

IHS Area	Mortality adjustment factor (2012)
California	1.4375
Oklahoma City	1.3890
Bemidji	1.1921
Nashville	1.1371
Portland	1.0985
Billings	1.0659
Alaska	1.0559
Albuquerque	1.0537
Phoenix	1.0465
Tucson	1.0272
Great Plains	1.0264
Navajo	1.0124

The latest study used for this report was conducted by the Division of Program Statistics in 2012, whose results are given above.