## Wyoming Department of Health Report to the Governor

# Vital Statistics Services - 2018 Annual Report - W.S. § 35-1-404(a)(v)

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#### Section 1. Executive Summary

Wyoming Statute § 35-1-403 and W.S. § 35-1-404(a)(v) direct the Wyoming Department of Health (WDH) State Registrar to install, maintain, and operate a system for all vital records and to submit to the Governor an annual report of its administration.

The Vital Statistics Services (VSS) program is administered with a combination of State General Fund, Federal and Other Appropriation dollars, and the program distributes funds back to the General Fund and the Children's Trust Fund through the sale of certified copies of vital events, enumeration at birth, fact of death and statistical data.

During calendar year 2018, the VSS staff answered 51,599 requests for services/certificates, and issued over 63,706 certified copies and vital record verifications to residents and customers, as illustrated in Figure 1 below.

- 21,691 Birth certificates
- 36,985 Death certificates
- 1,333 Marriage certificates
- 371 Divorce certificates
- 3,326 Vital Record Verifications

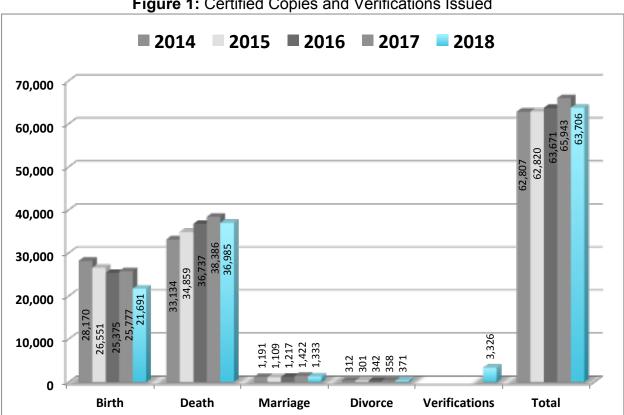


Figure 1: Certified Copies and Verifications Issued

<u>Mission</u>: Vital Statistics Services is tasked to install, maintain and operate a system of vital records throughout the State of Wyoming. The office maintains over one million recorded events.

The vital records electronic registration system contains over one-half of Wyoming's vital records. The electronic application has over 1,800 users throughout Wyoming and adjoining states. Users consist of <u>county clerks</u>, for marriages; <u>clerks of district court</u> to complete divorce filings, court ordered changes, and adoptions; <u>funeral homes</u>, <u>coroners</u> and <u>primary health care providers</u>, to file and complete death certificates; and hospital <u>health information specialists</u>, <u>midwives</u>, and <u>physicians</u> who file and certify births. The application requires around-the-clock access and reliability to ensure statutory filing resources are available for users.

**Goal:** The VSS program strives to provide accurate and timely vital record services, while maintaining record and data security. The office continues to consolidate media into an electronic format to provide a secure, accessible, and long-term storage solution for Wyoming vital records. The office estimates to spend over \$500,000 on future updates and enhancements for the system. This undertaking will require changes to the vital records statutes, and associated rules and regulations used in the management, registration, access and digitization of the state's records. These changes will focus on developing low and/or no cost options for private companies to scan, index and share open vital records, scan and index closed records and create a limited index for public use. Other enhancements will provide streamlined, system-to-system access through Application Program Interfaces (API) in an effort to supply more timely and accurate data for research programs and state agencies in the conduct of their day-to-day requirements.

### Section 2. Specific requirements of Statute

Wyoming Statute 35-1-404(a)(v) directs the State Registrar to submit an annual report to the Governor regarding the administration of the vital records system.

### Section 3. Response to specific requirements of Statute

The records and data, which make up VSS, contribute to the state's ability to manage and identify health issues, track health status, and assess population trends. This task is demonstrated through the office's registration, statistics and data sharing capabilities.

The collection of vital event information (birth, death, marriage and divorce) is important for residents to prove identity, obtain a driver's license, gain employment, access survivor's benefits or attend educational institutions. Statistical data may also inform public policy and program planning. This data is intended to inform residents and leaders, and support state health programs at all levels in analysis and decision-making.

#### **Birth and Death:**

Vital Statistics Services examines all births and deaths throughout Wyoming. This data also accounts for all resident births and deaths; which occur outside of Wyoming. This exchange of resident event data is transferred electronically through the State Territorial Exchange of Vital Events (STEVE), which is an application available to all states and territories through an agreement with the National Association of Public Health Statistics and Information Systems (NAPHSIS). STEVE has an extended agreement for access and data sharing, and access to the data is controlled locally by the owning jurisdiction. This agreement allows each participant state to receive an electronic notification and file for resident out of state events; e.g., when a resident living in Wyoming is transferred from a Wyoming facility for medical treatment and passes away at an adjacent state facility, the death certificate, produced in that adjacent state, is sent to Wyoming through STEVE for statistical purposes. The STEVE application has an annual cost to subscribe. Its reporting function may be used by VSS for all current and future data sharing agreements, to include statutory requirements with the Wyoming Secretary of State (Voter Registration), and other agencies; e.g., the Supreme Court (Jury Selection) and the Department of Transportation (Highway Fatalities) who have a statutory requirement for specific data sets collected by VSS. This application has become the "standard" for data use agreements and the system of choice for the distribution of reports and data for VSS.

The future of certifications and reports are nested in the office's ability to quickly and accurately respond to vital record data and statistical requests. The Electronic Verification of Vital Events (EVVE) application provides outside sources an electronic verification that a vital event occurred within the state or territory of record. This system is currently being used for verification of birth for U.S. State Department passport applications and by other federal agencies for both birth and death requests. Vital Statistics Service receives payment for EVVE verifications. These funds are deposited into a state trust account established to maintain Wyoming's VSS system of vital records.

Each system; i.e., STEVE and EVVE, is operated using an API and implement the vital record disclosure rules and regulations under a jurisdictional data use agreement which provides control of and access to vital records data, including how data is used by the fifty-four state and territorial users.

#### **Marriage and Divorce:**

Vital Statistics Services receives only marriage and divorce data for those events that occur inside Wyoming. Vital Statistics Services is charged to direct, supervise and control the activities of officials related specifically to these events. Each event registration begins with the completion of a form, created by VSS, and filed with a county clerk for marriages or a clerk of district court for divorces and adoptions.

Vital Statistics Services is proud of the teamwork and partnership with each of these

county officials, and continues to partner with both groups on activities to streamline the application and registration process. Goals include reducing cost at the state and local level for storage and copies. Throughout the past three (3) reporting periods, VSS and the State of Wyoming Archives have partnered with the county clerks to scan and attach marriage applications to the VSS system. This action enables the clerks to save a digital image of the event, instead of printing a physical document and then having that document scanned and transferred to microfilm. It is estimated this activity saves an average clerk approximately \$1,200.00 annually. Wyoming Clerks of District also are implementing this practice in an effort to reduce time on filing divorces and adoptions.

#### **Registration Activities:**

Wyoming's VSS registration section continues to view and process all Wyoming vital record registrations. Accurate and timely recordings are objectives for the unit. One employee processes Births, Corrections, Court Orders and Affidavits and another focuses on Death registration, Marriage and Divorce files. Birth and death registration has a statutory filing time of ten (10) and three (3) days respectively. Marriages and Divorce have statutory filing times too, but the law allows for the collection and consolidation of a month's files. Within the first ten (10) days of the following month, the clerks then advance the files electronically for review and state recording.

Figure 2, illustrates the total number of vital events recorded for calendar years 2014 – 2018 with the state's population x100.

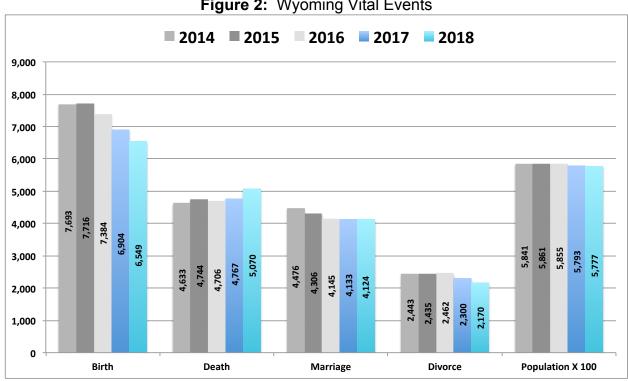


Figure 2: Wyoming Vital Events

#### **Resident Births:**

A total of 6,549 births were reported to Wyoming residents during the calendar year 2018. Of these births, 559 occurred outside of Wyoming, or 8.5% of the total resident births occurred outside the state, compared to 11.1% during the 2017 calendar year. Wyoming's birth rate has remained at approximately 11.3% births per 1,000 residents, which continues above the national average, but slightly lower than previous year's. Converse County experienced the largest gain in resident birth, climbing approximately fourteen percent higher than last year. A total of six (6) counties recorded an increase in resident births with the remaining counties seeing a slight decrease, some greater than twenty-percent; e.g., Uinta (-20%) and Goshen (-28%). Within this reporting period, state boarder counties again experience the highest percentage of resident out of state births. In Goshen County, fifty-percent of all resident births occurred out of state.

Since the implementation of the Midwives Licensure Act in 2010, Wyoming has witnessed a general increase in assisted home births; however, last year's downward trend continued with another decrease reported during the 2018, as seen in Figure 3.

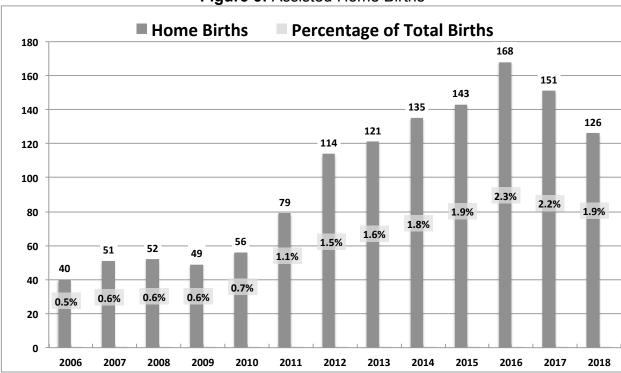


Figure 3: Assisted Home Births

#### **Teenage Pregnancies:**

Wyoming continues to experience a downward trend in teenage pregnancies. Wyoming's teen birth rate decreased nearly four (4) percent; i.e., 20.7% from 24.6%, during this reporting period, drawing closer to the national average, of approximately eighteen percent during this period, as shown in Table 1.

Although we are witnessing a decrease in teenage pregnancy, Wyoming continues to experience a teenage birth rate two (2) to three (3) percent higher than the national average.

Table 1: Teenage Birth Rate

Year	Wyoming Rate Per 1,000	U.S. Rate Per 1,000
2014	30.6	24.2
2015	27.8	22.3
2016	26.2	20.3
2017	24.6	18.8
2018	20.7	Not Available

#### **Birth Registration:**

In an effort to continue the birth registration quality and timeliness initiatives, the office continued the partnership with both the agency's Maternal and Child Health Unit and Public Health Nursing program. This effort has improved both filing and recording times for birth registration and has contributed to an increase in both home visitations and the distribution of public services information through the Healthy Baby Program Models; i.e., Best Beginnings and Nurse Family Partnership.

**■ 2014 ■ 2015 ■ 2016 ■ 2017 ■ 2018** 16 14 12 10 8 14.3 9.9 6 10.8 8.4 8.4 **7.4** 6.6 6.5 4 7.5 5.9 5.8 2 0 **Filed Demographics** Medical **Local Registrar** Recorded Certification

Figure 4: Birth Registration (Days)

By participating as a local registrar, public health nurses are able to screen all local births. Where birth mothers indicate on the worksheet an interest in these health programs and services, the public health nurses are able to contact the respondents directly to provide support. Approximately 82% of the total referrals may be linked back to this initiative and the VSS mother's worksheet, and this activity directly supports Wyoming Statute § 35-27-101 through W.S. § 35-27-104; Public Health Nurses Infant home Visitation Services.

In another quality initiative beginning mid-year 2017, the birth registration unit directed each birth facility to scan and attach copies of the original birth worksheets to the VSS system, in an effort to reduce the number of one-year corrections being made to birth certificates. The number of corrections and amendments to the records during this period continue to decline, as shown in figure 5.

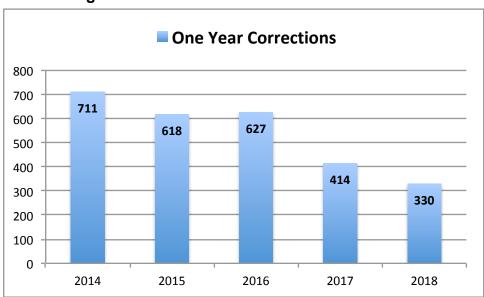


Figure 5: One-Year Birth Certificate Corrections

By providing the registration unit access to the original worksheets, the registration clerk is able to identify errors; e.g., spelling and data entry errors, and corrects them, saving the facility and parent's time, prior to recording and issuing the birth certificate. The one-year correction rate continues to drop as the accuracy and timeliness rates improve. The office goal for recording all births is six (6) days. The 2018 average is 9.9 days with the initial filing at the facility taking an average of 4.3 days across the state, as shown in figure 4 on page eight (8). The unit continues training and communicating with birth facilities in an effort to draw closer to the six (6) day goal.

#### **Death Registration**

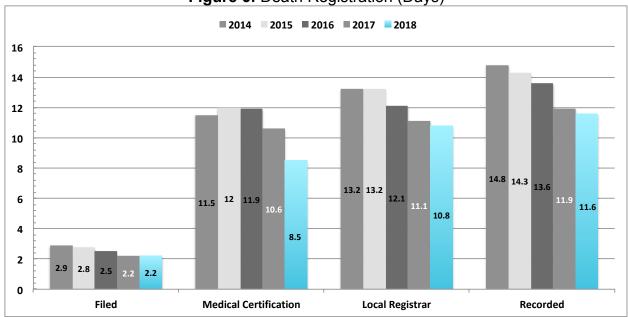
A total of 5,070 Wyoming residents died during calendar year 2018. Wyoming's death rate is lower than the national rate but is trending higher, as shown in Table 3. Vital Statistics Services provides death data to both state and federal partners, and is the lead provider for cause of death data in Wyoming. Specific death data may be found in the death appendices.

Table 3: Death Rate

Year	Wyoming Rate Per 100,000	U.S. Rate Per 100,000
2014	793	823.7
2015	809	828.0
2016	804	844.0
2017	823	863.8
2018	879	Not Available

Wyoming's average filing time in days for fact of death is two (2) days with the Electronic Death Registration System (EDRS). This is within the statutory requirement of three (3) days for filing. Beginning in July of 2015, the agency required all deaths to be filed through the EDRS, with a goal to reduce the amount of paper used in the process, decrease the time for filing, and eliminate errors in transcription and lost certificates. By removing these three (3) variables and requiring physicians along with local registrars to review and sign certificates online, the average recording for a fact of death was reduced from fourteen (14) to thirteen (13) days the first year. The unit's goal is to complete all certificates within ten (10) days, where the manner of death is natural. To date, the number of days to record a death certificate stands at eleven (11) days and continues to trend lower, as noted in Figure 6.

Figure 6: Death Registration (Days)



Those death events requiring additional reports or investigation, where the manner of death is 'other than natural,' are targeted at twenty (20) days. This twenty-day period allows for pathology and autopsy. The average number of days for recording deaths, where the manner of death is, other than 'natural,' is 13.4 days, which is within the unit's target.

#### Medical Certification and Local Registration

Medical Certification for deaths continues to be an issue and the most time-consuming aspect of registration. Though certification times have decreased, the average number of days from the time a death is filed to the primary health care provider certifying the file is six (6) days. Allowing primary health care providers to sign; i.e., Physicians, Advance Practice Registered Nurses (APRNs) and Physician Assistant's (PAs), has aided the death registration process and provided relief in smaller communities where APRNs and PAs are sometimes the only providers available to sign death certificates.

Vital Statistics Services continues to research new and innovative ways to assist health care providers in their requirement to certify vital events. The office has been streamlining the notification process, and providing more timely feedback and follow-up notices to medical certifiers. During this reporting period, these two (2) simple actions have reduced the number of certification days from 10.6 to 8.5 days. The office is focusing on programs and programming options to automate the registration process, beginning with the decedent's electronic health record (EHR). The VSS staff is involved in a pilot program using the EHR and the Wyoming Frontier Information Health Information Exchange (WYFI) as the "initiator" of the death file and the transport medium for death information, when a patient passes at a Wyoming facility. This pilot offers options for improved filing times and quality of death data, because the information is extracted directly from the EHR and is certified by the primary health care provider at the source of the data. The objective is to reduce the number of times a certifier is required to touch or look at the decedent record, and to initiate the death file with the state when the patient EHR has a discharge status for death. Vital Statistics Services estimates this filing method, once brought into practice, will reduce the over all filing and certification times from eight (8) days to approximately three (3) days. Reducing the number of days may directly benefit public health programs, health decision makers and families, giving them more timely access to the death certificate.

#### Marriage

In 2018, there were 4,124 new marriages in Wyoming. This number continues to trend lower, as shown in Table 4. The age-adjusted marriage rates are very consistent among all counties except Teton. Teton's rate 23.7 is three (3) times the state average 7.1, highlighting the county's appeal to couples seeking a "destination" location for a wedding.

Table 4: Marriages \*

Year	Number
2014	4,476
2015	4,306
2016	4,145
2017	4,133
2018	4,124

Thirteen (13) counties continue to use the State's VSS system to record marriages.

The remaining counties use a commercial, off-the-shelf system, which was developed within the region for managing land deeds and title activities. Those counties that use VSS are able to submit scanned images through the VSS system and no longer have a requirement to archive or microfilm applications and other marriage documents as the Archive's document management system serves as the repository for the documents. With this process, each clerk continues to have access to these files and images through the VSS portal.

#### Divorce

There were 2,170 divorces in Wyoming in 2018. This number continues to trend lower, as shown in Table 5. Wyoming's divorce rate has dropped over the last three (3) reporting periods, from 4.2 in 2016 to 3.8 this year. Sublette (4.9), Uinta (4.9) and Converse (4.8) have the highest divorce rates in the state, one point higher than the state average.

Table 5: Divorces \*

Year	Number
2014	2,443
2015	2,434
2016	2,462
2017	2,300
2018	2,170

<sup>\*</sup> Note that marriages/divorces are administered, managed, and reported to the state by county officials. For more information on marriages and divorces, please see the detailed tables in the appendix.

## Section 4. Appendices

In the attached appendix, please find the following information on the pages indicated:

- Historical Tables pp. 4-7
- Birth Tables pp. 8-27
- Death Tables pp. 28-42
  Marriage Tables pp. 43-44
- Divorce Tables pp. 45-47
- Definitions and Technical Calculations pp. 48-51

## **Appendices**

The following appendices contain detailed information supporting the Vital Statistics Services Annual Report.

Web links are indicated by this symbol: ♦.

For more information or questions contact Vital Statistics Services at 307-777-7632 or <a href="mailto:mariah.storey1@wyo.gov">mariah.storey1@wyo.gov</a>. For more detailed data or research requests, data request forms may be required. Access this form at: <a href="https://health.wyo.gov/admin/vitalstatistics/reports/">https://health.wyo.gov/admin/vitalstatistics/reports/</a>.

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Historical Tables
Wyoming (WY) 1922-2018 Births, Deaths, Infants Deaths, and Fetal Deaths

	·	Bir	ths	Dea	ths	Infant I	Deaths	Fetal [	Deaths
Year <sup>2</sup>	Population <sup>1</sup>	Number	Rate <sup>3</sup>	Number	Rate <sup>3</sup>	Number	Rate <sup>4</sup>	Number	Rate <sup>4</sup>
1922	207,677	5,188 <sup>2</sup>	25.0	1,930	929	408	78.6	180	34.7
1923	211,459	4,950 <sup>2</sup>	23.4	2,180	1031	394	79.6	165	33.3
1924	215,011	5,226 <sup>2</sup>	24.3	2,063	959	336	64.3	180	34.4
1925	215,991	4,833 <sup>2</sup>	22.4	1,896	878	309	63.9	146	30.2
1926	217,152	4,388 <sup>2</sup>	20.2	1,902	876	333	75.9	137	31.2
1927	218,949	4,472 <sup>2</sup>	20.4	1,976	902	308	68.9	131	29.3
1928	220,455	4,496 <sup>2</sup>	20.4	2,155	978	305	67.8	128	28.5
1929	223,427	4,424 <sup>2</sup>	19.8	2,010	900	311	70.3	100	22.6
1930	225,940	4,471 <sup>2</sup>	19.8	2,079	920	310	69.3	134	30.0
1931	227,783	4,504 <sup>2</sup>	19.8	2,035	893	301	66.8	117	26.0
1932	228,498	4,249 <sup>2</sup>	18.6	2,057	900	242	57.0	112	26.4
1933	228,863	4,207 <sup>2</sup>	18.4	1,975	863	230	54.7	84	20.0
1934	231,046	4,565 <sup>2</sup>	19.8	2,096	907	242	53.0	89	19.5
1935	234,690	4,362 <sup>2</sup>	18.6	2,284	973	223	51.1	86	19.7
1936	237,639	4,753 <sup>2</sup>	20.0	2,401	1010	274	57.6	68	14.3
1937	241,614	4,530 <sup>2</sup>	18.7	2,430	1006	252	55.6	96	21.2
1938	244,926	4,946 <sup>2</sup>	20.2	2,235	913	256	51.8	92	18.6
1939	247,524	4,897 <sup>2</sup>	19.8	2,207	892	223	45.5	86	17.6
1940	250,742	5,060 <sup>2</sup>	20.2	2,141	854	237	46.8	101	20.0
1941	247,000	5,185 <sup>2</sup>	21.0	2,205	893	227	43.8	111	21.4
1942	251,000	5,437 <sup>2</sup>	21.7	2,134	850	249	45.8	105	19.3
1943	247,000	5,688 <sup>2</sup>	23.0	2,227	902	213	37.4	117	20.6
1944	242,000	5,612 <sup>2</sup>	23.2	2,251	930	220	39.2	101	18.0
1945	239,000	5,339 <sup>2</sup>	22.3	2,206	923	217	40.6	91	17.0

## Wyoming (WY) 1922-2018 Births, Deaths, Infants Deaths, and Fetal Deaths (Page 2 of 4)

	(11)		ths	Dea	aths	Infant I	Deaths	Fetal D	Deaths
Year	Population <sup>1</sup>	Number	Rate <sup>3</sup>	Number	Rate <sup>3</sup>	Number	Rate <sup>4</sup>	Number	Rate <sup>4</sup>
1946	254,000	6,188	24.4	2,135	841	205	33.1	110	17.8
1947	258,000	7,320	28.4	2,349	910	249	34.0	144	19.7
1948	269,000	7,418	27.6	2,385	887	293	39.5	124	16.7
1949	277,000	7,490	27.0	2,385	861	280	37.4	124	16.6
1950	292,000	7,606	26.0	2,336	800	247	32.5	146	19.2
1951	293,000	8,048	27.5	2,346	801	233	29.0	122	15.2
1952	297,000	8,116	27.3	2,503	843	262	32.3	116	14.3
1953	295,000	8,760	29.7	2,349	796	243	27.7	131	15.0
1954	300,000	8,938	29.8	2,419	806	270	30.2	106	11.9
1955	315,000	8,610	27.3	2,453	779	242	28.1	108	12.5
1956	321,000	8,389	26.1	2,533	789	231	27.5	109	13.0
1957	323,000	8,270	25.6	2,598	804	217	26.2	127	15.4
1958	322,000	8,098	25.1	2,528	785	225	27.8	125	15.4
1959	325,000	8,189	25.2	2,623	807	221	27.0	118	14.4
1960	330,066	8,499	25.7	2,792	846	238	28.0	95	11.2
1961	336,000	8,560	25.5	2,635	784	230	26.9	111	13.0
1962	332,000	7,984	24.0	2,738	825	243	30.4	85	10.6
1963	335,000	7,494	22.4	2,817	841	217	29.0	97	12.9
1964	338,000	7,252	21.5	2,842	841	209	28.8	91	12.5
1965	330,000	6,534	19.8	2,802	849	146	22.3	86	13.2
1966	319,000	5,898	18.5	2,655	832	142	24.1	76	12.9
1967	322,000	5,540	17.2	2,763	858	130	23.5	83	15.0
1968	324,000	5,750	17.7	2,958	913	123	21.4	87	15.1
1969	329,000	6,033	18.3	2,934	892	165	27.3	97	16.1
1970	332,416	6,535	19.7	2,927	881	131	20.0	82	12.5

## Wyoming (WY) 1922-2018 Births, Deaths, Infants Deaths, and Fetal Deaths (Page 3 of 4)

	7- 31	Bir	ths	Dea	aths	Infant	Deaths	Fetal D	eaths
Year	Population <sup>1</sup>	Number	Rate <sup>3</sup>	Number	Rate <sup>3</sup>	Number	Rate <sup>4</sup>	Number	Rate <sup>4</sup>
1971	339,284	6,156	18.1	3,048	898	152	24.7	72	11.7
1972	350,112	6,011	17.2	3,038	868	131	21.8	65	10.8
1973	358,318	6,059	16.9	3,066	856	113	18.6	57	9.4
1974	371,630	6,536	17.6	3,133	843	106	16.2	79	12.1
1975	383,644	6,938	18.1	3,072	801	120	17.3	75	10.8
1976	397,965	7,367	18.5	3,158	794	121	16.4	65	8.8
1977	427,130	8,276	19.4	3,017	706	115	13.9	74	8.9
1978	440,878	8,652	19.6	3,112	706	113	13.1	67	7.7
1979	454,949	9,768	21.5	3,063	673	129	13.2	65	6.7
1980	469,557	10,546	22.5	3,215	685	104	9.9	81	7.7
1981	490,046	10,839	22.1	3,162	645	121	11.2	93	8.6
1982	497,297	11,053	22.2	3,183	640	109	9.9	92	8.3
1983	498,175	10,254	20.6	3,155	633	101	9.8	72	7.0
1984	500,943	9,753	19.5	3,180	635	108	11.1	73	7.5
1985	504,740	9,358	18.5	3,286	651	114	12.2	64	6.8
1986	492,191	8,633	17.5	3,217	654	94	10.9	59	6.8
1987	475,191	7,538	15.9	3,038	639	69	9.2	57	7.6
1988	463,792	7,163	15.4	3,245	700	64	8.9	49	6.8
1989	455,890	6,893	15.1	3,249	713	65	9.4	57	8.3
1990	453,589	6,974	15.4	3,194	704	60	8.6	49	7.0
1991	459,260	6,691	14.6	3,152	686	52	7.8	55	8.2
1992	466,251	6,720	14.4	3,295	707	61	9.1	44	6.5
1993	473,081	6,550	13.8	3,488	737	52	7.9	40	6.1
1994	480,283	6,427	13.4	3,481	725	44	6.8	39	6.1
1995	485,160	6,261	12.9	3,720	767	48	7.7	34	5.4

Wyoming (WY) 1922-2018 Births, Deaths, Infants Deaths, and Fetal Deaths (Page 4 of 4)

	(11)		ths	Dea	aths	Infant	Deaths	Fetal D	eaths
Year	Population <sup>1</sup>	Number	Rate <sup>3</sup>	Number	Rate <sup>3</sup>	Number	Rate <sup>4</sup>	Number	Rate <sup>4</sup>
1996	488,167	6,286	12.9	3,604	738	40	6.4	42	6.7
1997	489,451	6,372	13.0	3,740	764	37	5.8	24	3.8
1998	490,787	6,248	12.7	3,847	784	44	7.0	22	3.5
1999	491,780	6,122	12.4	4,038	821	42	6.9	29	4.7
2000	493,786	6,254	12.7	3,914	793	42	6.7	28	4.5
2001	494,657	6,117	12.4	4,029	815	36	5.9	43	7.0
2002	500,017	6,550	13.1	4,168	834	44	6.7	35	5.3
2003	503,453	6,700	13.4	4,116	818	38	5.7	29	4.3
2004	509,106	6,803	13.4	3,941	774	60	8.8	48	7.1
2005	514,157	7,231	14.2	4,070	792	49	6.8	37	5.1
2006	522,667	7,655	14.9	4,277	818	58	7.6	40	5.2
2007	534,876	7,850	15.1	4,218	789	57	7.3	32	4.1
2008	546,043	8,022	15.1	4,183	766	57	7.1	32	4.0
2009	559,851	7,874	14.5	4,277	764	48	6.1	38	4.8
2010	563,626	7,541	13.4	4,406	782	51	6.8	28	3.7
2011	568,158	7,339	12.9	4,342	764	49	6.7	34	4.6
2012	576,412	7,576	13.1	4,468	775	39	5.1	36	4.8
2013	582,658	7,617	13.1	4,469	767	35	4.6	29	3.8
2014	584,153	7,693	13.2	4,633	793	49	6.4	32	4.2
2015	586,107	7,716	13.2	4,744	809	39	5.1	36	4.7
2016	585,501	7,384	12.6	4,706	804	37	5.0	24	3.3
2017	579,315	6,904	11.9	4,767	823	32	4.6	28	3.8
2018	577,737	6,549	11.3	5,070	878	34	5.2	34	5.2

Note 1: Source of data is Population Division, U.S. Census Bureau Released March 22, 2018.

Note 2: Data for 1922-1945 is by place of occurrence; 1946-2018 is by place of residence. Please refer to the definitions and technical calculations on page 48 of this document.

Note 3: Birth rates are per 1,000 population while death rates are per 100,000.

Note 4: Infant mortality rates and fetal death ratios are per 1,000 live births.

Birth Tables
WY 2018 Resident<sup>1</sup> Birth Rates by County

County	Total Births	Population <sup>2</sup>	Rate <sup>3</sup>
Albany	330	38,601	8.5
Big Horn	123	11,881	10.4
Campbell	586	46,140	12.7
Carbon	183	14,971	12.2
Converse	170	13,640	12.5
Crook	108	7,450	14.5
Fremont	520	39,531	13.2
Goshen	113	13,376	8.4
Hot Springs	40	4,555	8.8
Johnson	72	8,460	8.5
Laramie	1,282	98,976	13.0
Lincoln	220	19,434	11.3
Natrona	958	79,115	12.1
Niobrara	31	2,388	13.0
Park	276	29,324	9.4
Platte	72	8,566	8.4
Sheridan	291	30,233	9.6
Sublette	85	9,813	8.7
Sweetwater	488	43,051	11.3
Teton	232	23,081	10.1
Uinta	231	20,299	11.4
Washakie	81	7,885	10.3
Weston	57	6,967	8.2
State	6,549	577,737	11.3

Note 1: Please refer to the definitions and technical calculations on page 48 of this document.

Note 2: Source of data is Population Division, U.S. Census Bureau Released April 18, 2019.

Note 3: Birth rates are per 1,000 Population.

## WY 2004-2018 Total Number of Births by Mother's County of Residence<sup>1</sup> and Year

County	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Albany	373	418	402	410	440	423	429	414	415	418	430	379	406	356	330
Big Horn	151	152	139	147	144	148	126	135	151	143	144	154	133	148	123
Campbell	592	630	686	700	762	843	740	755	769	736	756	797	739	629	586
Carbon	204	189	204	223	218	240	190	184	188	224	207	221	219	182	183
Converse	146	162	175	166	188	183	182	195	164	196	211	199	172	149	170
Crook	68	64	93	107	85	100	99	90	93	101	100	115	106	105	108
Fremont	542	591	606	640	630	621	628	593	603	594	595	569	536	520	520
Goshen	127	125	140	115	141	140	132	118	142	154	153	142	136	157	113
Hot Springs	43	43	59	38	42	42	50	52	54	51	49	47	49	45	40
Johnson	99	73	101	94	115	95	105	93	95	91	87	77	88	67	72
Laramie	1,252	1,305	1,305	1,362	1,360	1,272	1,285	1,246	1,261	1,245	1,256	1,301	1,315	1,261	1,282
Lincoln	227	251	275	298	296	263	274	247	243	228	244	265	242	235	220
Natrona	942	1,026	1,041	1,104	1,077	1,071	1,043	981	1,110	1,164	1,221	1,160	1,096	1,006	958
Niobrara	15	17	19	16	29	15	22	21	23	27	25	31	34	29	31
Park	275	311	337	332	332	308	286	311	334	305	311	331	311	285	276
Platte	85	76	91	78	80	59	72	84	95	89	86	90	83	81	72
Sheridan	328	334	344	381	359	378	343	346	308	351	329	323	326	318	291
Sublette	86	73	107	129	146	131	127	126	140	127	125	132	109	98	85
Sweetwater	566	646	724	697	755	724	631	647	630	622	632	633	608	551	488
Teton	237	292	287	287	310	258	283	226	256	255	242	271	237	237	232
Uinta	292	288	320	359	335	364	315	300	326	304	325	301	289	289	231
Washakie	86	111	122	88	105	99	104	97	91	97	98	102	72	84	81
Weston	67	54	78	79	73	97	75	78	85	94	67	76	78	72	57
State	6,803	7,231	7,655	7,850	8,022	7,874	7,541	7,339	7,576	7,617	7,693	7,716	7,384	6,904	6,549

Note 1: Please refer to the defintions and technical calculations on page 48 of this document.

			WY 20	04-2018	Total N	umber o	f Births	by Coun	ty of Oc	curence <sup>2</sup>	and Yea	ar			
County	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Albany	413	457	447	447	465	470	480	404	414	425	446	428	457	405	360
Big Horn	8	1	1	1	1	1	1	1	1	1	5	1	1	1	1
Campbell	617	647	731	746	792	886	764	788	787	752	786	864	777	681	648
Carbon	121	121	115	136	123	128	85	106	86	99	110	79	76	68	88
Converse	128	98	101	111	130	117	122	135	117	158	170	186	157	130	144
Crook	1	1	1	1	1	1	1	1	1	1	9	6	11	10	9
Fremont	512	561	582	619	604	592	607	560	579	571	567	530	497	466	420
Goshen	75	85	87	100	95	80	80	80	97	93	86	79	78	85	67
Hot Springs	44	51	62	36	43	49	70	64	71	65	69	61	65	72	101
Johnson	60	48	63	49	74	52	50	40	53	52	43	50	59	35	43
Laramie	1,215	1,282	1,252	1,315	1,317	1,215	1,228	1,212	1,202	1,197	1,194	1,280	1,266	1,230	1,231
Lincoln	138	159	161	182	160	140	145	134	135	133	154	156	128	123	124
Natrona	956	1,075	1,098	1,142	1,129	1,114	1,081	1,025	1,126	1,181	1,234	1,171	1,101	1,033	991
Niobrara	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Park	421	459	481	456	458	450	405	417	463	414	434	465	419	400	371
Platte	60	49	64	58	58	49	54	61	78	69	54	48	53	36	40
Sheridan	345	348	358	413	404	410	389	382	351	385	349	344	340	339	293
Sublette	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sweetwater	498	568	615	599	636	580	516	490	473	497	516	559	561	499	438
Teton	397	435	476	521	550	499	482	440	464	377	442	488	449	436	411
Uinta	265	266	306	300	324	340	294	299	298	276	269	243	178	180	170
Washakie	59	66	91	79	74	60	58	69	53	57	58	70	28	38	36
Weston	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

6,914

6,712

6,858

6,809

6,996

7,114

6,709

Note 1: Numbers less than five are not displayed.

6,779

6,328

State

Note 2: Please refer to the definitions and technical calculations on page 48 of this document.

7,092 7,317

7,444

7,236

WY 2017 to 2018 Changes in Total Number of Resident and Occurant Births

		to 2010 Cit	
County of			Percent
RESIDENCE	2017	2018	Change
Albany	356	330	- <b>7</b> %
Big Horn	148	123	-17%
Campbell	629	586	- <b>7</b> %
Carbon	182	183	1%
Converse	149	170	14%
Crook	105	108	3%
Fremont	520	520	0%
Goshen	157	113	-28%
Hot Springs	45	40	-11%
Johnson	67	72	7%
Laramie	1,261	1,282	2%
Lincoln	235	220	-6%
Natrona	1,006	958	-5%
Niobrara <sup>2</sup>	29	31	7%
Park	285	276	-3%
Platte	81	72	-11%
Sheridan	318	291	-8%
Sublette	98	85	-13%
Sweetwater	551	488	-11%
Teton	237	232	-2%
Uinta	289	231	- <b>20</b> %
Washakie	84	81	-4%
Weston	72	57	<b>-21</b> %
State	6,904	6,549	-5%

County of			Percent
OCCURANCE	2017	2018	Change
Albany	405	360	-11%
Big Horn	1	1	1
Campbell	681	648	-5%
Carbon	68	88	29%
Converse	130	144	11%
Crook	10	9	-10%
Fremont	466	420	-10%
Goshen	85	67	-21%
Hot Springs	72	101	40%
Johnson	35	43	23%
Laramie	1,230	1,231	0%
Lincoln	123	124	1%
Natrona	1,033	991	-4%
Niobrara	1	1	1
Park	400	371	- <b>7</b> %
Platte	36	40	11%
Sheridan	339	293	-14%
Sublette	1	1	1
Sweetwater	499	438	-1 <b>2</b> %
Teton	436	411	-6%
Uinta	180	170	-6%
Washakie	38	36	-5%
Weston	1	1	1
State	6,273	5,990	-5%

Note 1: Numbers less than five and associated percentages are not displayed.

Note 2: Please be cautious when interpreting small numbers (fewer than 20 events) because these data do not meet the requirement for minimum degree of accuracy.

## WY 2018 Births By Place of Birth

	Res	Resident Mothers from the County that Gave Birth													
	In Co	ounty	Out of	County	Out of	f State	Total Resident								
County	Number	Percent <sup>1</sup>	Number	Percent <sup>1</sup>	Number	Percent <sup>1</sup>	Births								
Albany	282	85%	19	6%	29	9%	330								
Big Horn	0	0%	112	91%	11	9%	123								
Campbell	552	94%	10	2%	24	4%	586								
Carbon	83	45%	72	39%	28	15%	183								
Converse	110	65%	48	28%	12	7%	170								
Crook	9	8%	53	49%	46	43%	108								
Fremont	415	80%	63	12%	42	8%	520								
Goshen	47	42%	9	8%	57	50%	113								
<b>Hot Springs</b>	29	73%	10	25%	1	3%	40								
Johnson	34	47%	37	51%	1	1%	72								
Laramie	1,154	90%	14	1%	114	9%	1,282								
Lincoln	109	50%	69	31%	42	19%	220								
Natrona	910	95%	12	1%	36	4%	958								
Niobrara	0	0%	24	77%	7	23%	31								
Park	237	86%	1	0%	38	14%	276								
Platte	39	54%	27	38%	6	8%	72								
Sheridan	256	88%	10	3%	25	9%	291								
Sublette	1	1%	74	87%	10	12%	85								
Sweetwater	408	84%	24	5%	56	11%	488								
Teton	225	97%	0	0%	7	3%	232								
Uinta	130	56%	18	8%	83	36%	231								
Washakie	31	38%	47	58%	3	4%	81								
Weston	3	5%	27	47%	27	47%	57								
State	5,064	77%	780	12%	705	11%	6,549								

Note 1: Percentages are based on the total number of births recorded in the year. Data are rounded and may not add to 100% due to rounding error.

WY 2006-2018 Occurrent Home Births

Year	Number	Total Percent of Births <sup>1</sup>
2006	35	0.5%
2007	48	0.6%
2008	49	0.6%
2009	46	0.6%
2010	61	0.8%
2011	81	1.1%
2012	115	1.5%
2013	124	1.6%
2014	142	1.8%
2015	150	1.9%
2016	190	2.6%
2017	157	2.3%
2018	126	1.9%

Note 1: Percentages are based on the total number of births. Data are rounded and may not add to 100% due to rounding error.

## WY 2004-2018 Teen<sup>2</sup> Resident Births by County

County	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Albany	18	23	16	24	25	30	27	23	19	23	17	14	19	12	9
Big Horn	20	16	16	13	15	14	15	11	14	7	9	1	9	7	1
Campbell	72	54	89	82	76	99	80	68	79	55	49	67	55	37	34
Carbon	30	25	24	34	27	23	20	15	18	13	15	22	12	13	17
Converse	15	24	19	19	24	20	28	15	17	15	21	19	10	13	11
Crook	10	5	8	13	7	8	7	9	7	1	6	9	6	1	1
Fremont	95	86	102	121	106	73	80	78	66	65	51	65	47	58	36
Goshen	13	9	8	24	18	18	15	13	18	15	10	14	7	8	6
Hot Springs	7	12	7	1	1	7	1	1	1	1	1	1	1	1	1
Johnson	7	5	11	7	13	8	6	8	1	1	1	1	1	1	1
Laramie	157	164	165	155	158	153	143	108	105	96	94	76	79	77	69
Lincoln	19	23	24	23	27	13	18	12	14	21	11	17	8	6	12
Natrona	139	120	123	134	128	140	119	88	94	86	99	70	79	83	65
Niobrara	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Park	23	26	33	25	29	23	13	13	29	13	18	17	12	15	11
Platte	13	6	9	7	15	5	8	13	1	7	8	1	7	1	1
Sheridan	33	32	24	32	29	30	27	30	19	14	30	18	20	20	16
Sublette	7	6	11	19	8	9	5	8	5	1	1	7	5	1	5
Sweetwater	69	94	80	99	93	81	56	52	59	56	60	37	44	32	25
Teton	16	19	16	15	15	14	14	9	6	1	6	8	1	1	5
Uinta	32	28	36	39	39	31	28	23	30	22	24	24	19	19	15
Washakie	10	10	14	15	15	7	5	8	6	8	8	7	8	1	1
Weston	6	7	13	11	5	8	1	13	7	10	1	1	5	1	1
State	811	795	851	916	875	814	723	622	621	541	548	508	464	424	360

Note 1: Numbers less than five and their associated percentages are not displayed.

Note 2: National data reports teens as 15-19; however, births to teens younger than 15 did occur but are small numbers and not reported.

County	2008-2012	2009-2013	2010-2014	2011-2015	2012-2016	2013-2017	2014-2018
Albany	14.1	14.2	13.1	11.8	11.4	10.7	9.0
Big Horn	35.4	30.7	27.5	20.6	19.4	16.1	14.8
Campbell	54.0	51.1	44.9	43.2	41.2	35.7	33.4
Carbon	50.1	44.4	40.2	41.1	38.9	36.2	37.7
Converse	46.7	43.3	45.2	40.8	38.1	36.1	33.9
Crook	38.3	33.8	31.7	33.0	30.2	26.6	28.3
Fremont	63.0	57.2	55.1	54.1	49.8	48.9	44.0
Goshen	33.9	32.8	30.2	30.4	28.0	23.9	20.0
Hot Springs	30.2	28.8	20.7	18.2	16.4	16.7	19.0
Johnson	30.1	22.1	16.4	14.9	11.8	14.0	13.7
Laramie	46.5	42.5	38.7	34.4	32.3	30.2	28.1
Lincoln	29.2	26.5	25.3	25.0	23.4	20.7	17.9
Natrona	46.1	43.2	40.5	36.9	36.2	35.5	34.3
Niobrara	23.3	19.4	24.8	30.7	33.0	34.8	36.9
Park	22.6	19.2	18.4	19.6	19.6	17.0	17.0
Platte	33.4	26.9	29.0	25.0	21.1	20.5	18.2
Sheridan	29.1	26.4	26.9	25.0	22.5	22.7	23.0
Sublette	26.8	22.0	18.0	19.5	17.4	15.6	17.6
Sweetwater	48.5	43.2	40.3	37.5	35.9	31.9	27.5
Teton	24.5	19.2	15.8	13.3	11.3	10.3	10.9
Uinta	40.3	35.6	33.6	32.6	32.1	29.8	28.8
Washakie	32.6	27.2	27.8	29.6	29.9	27.6	24.4
Weston	40.3	45.9	39.7	38.6	29.6	26.9	20.7
State	40.0	36.5	33.9	31.9	30.2	28.2	26.3

Note 1: Birth rates are per 1,000 of the Female 15-19 Population. Please be cautious when interpreting small numbers (fewer than 20 events) because these data do not meet the requirement for minimum degree of accuracy.

WY 2006-2018 Resident Births and Rates by Mother's Age

Year	15-	19 <sup>1</sup>	2	0-29	>3	30	Tot	:al <sup>3</sup>
real	Number	Rates <sup>2</sup>						
2006	851	44.4	4,876	154.6	1,919	18.43	7,646	49.4
2007	916	47.3	4,904	149.1	2,022	19.10	7,842	49.6
2008	875	45.7	5,040	146.5	2,105	19.64	8,020	49.9
2009	814	42.3	4,849	134.0	2,208	20.35	7,871	48.0
2010	723	37.9	4,644	125.1	2,172	19.87	7,539	45.5
2011	622	31.8	4,479	118.8	2,235	20.41	7,336	44.0
2012	621	31.0	4,534	117.9	2,414	21.92	7,569	44.9
2013	541	26.3	4,612	118.8	2,461	22.34	7,614	44.9
2014	548	26.9	4,589	117.2	2,553	23.35	7,690	45.5
2015	508	25.8	4,484	113.2	2,718	24.94	7,716	45.9
2016	464	26.2	4,121	107.0	2,793	25.78	7,384	44.9
2017	424	24.6	3,848	104.5	2,626	24.70	6,904	43.0
2018	360	20.7	3,613	98.9	2,573	24.53	6,549	41.2

Note 1: National data reports teens as 15-19; however, births to teens younger than 15 did occur but are small numbers and not reported.

Note 2: Rates are per 1,000 women who were 15-59.

Note 3: In a few rare cases, mother's age was not recorded for the event; therefore, mother's age totals will not match county totals.

WY 2006-2018 Resident Babies Born Low Birth Weight<sup>1</sup> by Mother's Age

	15-	19 <sup>2</sup>	20-	-29	>3	30	To	tal <sup>4</sup>
Year	Number	Percent <sup>3</sup>						
2006	87	10%	397	8%	188	10%	672	9%
2007	90	10%	414	8%	210	10%	714	9%
2008	86	10%	402	8%	180	9%	668	8%
2009	81	10%	393	8%	189	9%	663	8%
2010	68	9%	406	9%	206	9%	680	9%
2011	52	8%	366	8%	172	8%	590	8%
2012	44	7%	399	9%	208	9%	651	9%
2013	48	9%	401	9%	203	8%	652	9%
2014	58	11%	423	9%	217	8%	698	9%
2015	50	10%	343	8%	263	10%	656	9%
2016	43	9%	355	9%	228	8%	626	8%
2017	45	11%	329	9%	225	9%	600	9%
2018	49	14%	318	9%	245	10%	612	9%

Note 1: Low weight births are those weighing less than 2500 grams. Please refer to the definitions and technical calculations on page 48 of this document.

Note 2: National data reports teens as 15-19; however, births to teens younger than 15 did occur but are small numbers and not reported.

Note 3: Percentages are based on the total number of births recorded in the year. Data are rounded and may not add to 100% due to rounding error.

Note 4: In a few rare cases, mother's age was not recorded for the event; therefore, mother's age totals will not match county totals.

WY 2011-2018 Low Birth Weight Babies by County of Residence

	2011		2012		2013		20	14	20	15	2016		20	)17	2018	
County	Number	Percent <sup>2</sup>														
Albany	38	9%	43	10%	40	10%	31	7%	29	8%	38	9%	29	8%	24	7%
Big Horn	8	6%	10	7%	10	7%	7	5%	14	9%	13	10%	8	5%	6	5%
Campbell	64	8%	64	8%	65	9%	68	9%	59	7%	73	10%	60	10%	70	12%
Carbon	10	5%	19	10%	17	8%	20	10%	23	10%	20	9%	17	9%	16	9%
Converse	10	5%	17	10%	12	6%	13	6%	14	7%	14	8%	15	10%	24	14%
Crook	9	10%	9	10%	5	5%	1	1	12	10%	1	1	1	1	12	1
Fremont	52	9%	62	10%	51	9%	49	8%	56	10%	48	9%	39	8%	46	9%
Goshen	8	7%	12	8%	15	10%	7	5%	10	7%	9	7%	13	8%	12	11%
<b>Hot Springs</b>	1	1	7	13%	6	12%	1	1	1	1	1	1	1	1	1	1
Johnson	10	11%	7	7%	10	11%	8	9%	6	8%	1	1	5	7%	1	1
Laramie	115	9%	113	9%	106	9%	154	12%	122	9%	125	10%	110	9%	120	9%
Lincoln	18	7%	13	5%	19	8%	25	10%	24	9%	19	8%	16	7%	17	8%
Natrona	68	7%	93	8%	106	9%	121	10%	106	9%	111	10%	91	9%	94	10%
Niobrara	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Park	31	10%	21	6%	25	8%	23	7%	22	7%	17	5%	26	9%	29	11%
Platte	1	1	9	9%	6	7%	7	8%	7	8%	6	7%	11	14%	1	1
Sheridan	26	8%	23	7%	24	7%	24	7%	19	6%	16	5%	19	6%	23	8%
Sublette	11	9%	15	11%	6	5%	6	5%	18	14%	5	5%	8	8%	5	6%
Sweetwater	61	9%	47	7%	62	10%	66	10%	50	8%	56	9%	63	11%	58	12%
Teton	11	5%	16	6%	16	6%	16	7%	29	11%	18	8%	18	8%	15	6%
Uinta	22	7%	38	12%	36	12%	39	12%	21	7%	17	6%	32	11%	26	11%
Washakie	6	6%	5	5%	10	10%	7	7%	9	9%	1	1	6	7%	1	1
Weston	1	1	6	7%	5	5%	1	1	1	1	5	6%	7	10%	1	1
State	590	8%	651	9%	652	9%	700	9%	656	9%	626	8%	600	9%	612	9%

Note 1: Numbers less than five and their associated percentages are not displayed.

Note 2: Percentages are based on the number of births for each year. Percentages are rounded and may not add to 100% due to rounding error.

WY 2006-2018 Resident Babies Born Premature<sup>1</sup> by Mother's Age

	15-	·19²	20-	-29	>30		Total <sup>4</sup>	
Year	Number	Percent <sup>3</sup>	Number	Percent <sup>3</sup>	Number	Percent <sup>3</sup>	Number	Percent <sup>3</sup>
2006	98	12%	490	10%	227	12%	815	11%
2007	103	11%	505	10%	254	13%	862	11%
2008	101	12%	484	10%	238	11%	823	10%
2009	84	10%	481	10%	215	10%	780	10%
2010	82	11%	481	10%	228	10%	791	10%
2011	71	11%	437	10%	214	10%	722	10%
2012	51	8%	400	9%	231	10%	682	9%
2013	46	9%	479	10%	254	10%	779	10%
2014	60	11%	484	11%	266	10%	811	11%
2015	57	11%	404	9%	282	10%	743	10%
2016	44	9%	384	9%	270	10%	699	9%
2017	41	10%	334	9%	240	9%	616	9%
2018	48	13%	333	9%	264	10%	645	10%

Note 1: Premature births have a gestation age less than 37 weeks. Please refer to the definitions and technical calculations on page 48 of this document.

Note 2: National data reports teens as 15-19; however, births to teens younger than 15 did occur but are small numbers and not reported.

Note 3: Percentages are based on the total number of births recorded in the year. Percentages are rounded and may not add to 100% due to rounding error.

Note 4: In a few rare cases, mother's age was not recorded for the event; therefore, mother's age totals will not match county totals.

#### WY 2010-2018 Resident Mother's Tobacco Use By Trimester and Mother's Age<sup>1</sup>

**Tobacco Use During 1st Trimester** 

18%

19%

19%

18%

18%

17%

16%

16%

14%

Number Percent<sup>3</sup> Number Percent<sup>3</sup>

247

225

234

233

250

243

254

234

227

11%

10%

10%

9%

10%

9%

9%

9%

9%

20-29

847

847

846

844

830

752

656

601

520

15-19<sup>2</sup>

Number Percent<sup>3</sup>

26%

27%

28%

24%

25%

22%

21%

25%

19%

188

167

171

130

136

110

97

104

70

Year

2010

2011

2012

2013

2014

2015

2016

2017

2018

I <sup>4</sup>	,
Percent <sup>3</sup>	
<b>17</b> %	( \
17%	14
<b>17</b> %	1.4
16%	14
16%	12
14%	2
14%	7

14%

12%

Tota

Number

1,282

1,239

1,251

1,207

1,216

1,105

1,007

939

817

#### **Tobacco Use During 2<sup>nd</sup> Trimester**

Year	15-	19 <sup>2</sup>	20-	-29	>	30	Tot	tal <sup>4</sup>
	Number	Percent <sup>3</sup>						
2010	150	21%	706	15%	223	10%	1,079	14%
2011	136	22%	702	16%	185	8%	1,023	14%
2012	123	20%	721	16%	206	9%	1,050	14%
2013	111	21%	690	15%	196	8%	997	13%
2014	103	19%	701	15%	219	9%	1,023	13%
2015	80	16%	604	13%	202	7%	886	11%
2016	71	15%	531	13%	217	8%	819	11%
2017	77	18%	500	13%	206	8%	783	11%
2018	56	16%	435	12%	202	8%	693	11%

**Tobacco Use During 3rd Trimester** 

		2	20-29 >30			4		
Year	15-	19 <sup>2</sup>	20	-29	>	30	Tot	tal <sup>4</sup>
	Number	Percent <sup>3</sup>	Number	Percent <sup>3</sup>	Number	Percent <sup>3</sup>	Number	Percent <sup>3</sup>
2010	139	19%	677	15%	216	10%	1,032	14%
2011	123	20%	657	15%	183	8%	963	13%
2012	111	18%	675	15%	191	8%	977	13%
2013	107	20%	664	14%	183	7%	954	13%
2014	96	18%	658	14%	208	8%	962	13%
2015	77	15%	575	13%	190	7%	842	11%
2016	67	14%	498	12%	216	8%	781	11%
2017	73	17%	468	12%	185	7%	726	11%
2018	52	14%	411	11%	198	8%	661	10%

Note 1: Data is self-reported by mother at time of birth.

Note 2: National data reports teens as those aged 15-19; however, births to teens younger than 15 did occur but are small numbers and not reported.

Note 3: Percentages are the number of births for each age category. Percentages are rounded an may not add to 100% due to rounding error.

#### WY 2006-2018 Resident Mother's Prenatal Care By Type of Care and Mother's Age<sup>1</sup>

Adequate Plus- Defined as prenatal care starting in the fourth month and 110% or more of recommended visits.

Adequate- Defined as prenatal care starting in the fourth month and 80-109% of recommended visits.

Intermediate- Defined as prenatal care starting in the fourth month and 50-79% of recommended visits.

Inadequate- Defined as prenatal care starting in the fourth month and less than 50% of recommended visits.

	Less than Adequate										
Year	15-19 <sup>2</sup>	20-29	>30	Total <sup>3</sup>							
2006	224	1,113	393	1,730							
2007	314	1,200	431	1,945							
2008	311	1,414	548	2,273							
2009	270	1,384	567	2,221							
2010	261	1,278	545	2,084							
2011	182	1,198	560	1,940							
2012	205	1,203	597	2,005							
2013	175	1,262	617	2,054							
2014	181	1,261	638	2,080							
2015	177	1,252	659	2,092							
2016	166	1,051	657	1,874							
2017	141	1,045	601	1,787							
2018	140	1,037	598	1,775							

	Adequate or Better										
Year	15-19 <sup>2</sup>	20-29	>30	Total <sup>4</sup>							
2006	548	3,274	1,282	5,104							
2007	553	3,289	1,403	5,245							
2008	529	3,371	1,443	5,343							
2009	492	3,205	1,516	5,213							
2010	443	3,225	1,557	5,225							
2011	424	3,185	1,619	5,228							
2012	411	3,245	1,773	5,429							
2013	361	3,278	1,806	5,445							
2014	337	3,125	1,820	5,282							
2015	318	3,120	2,011	5,451							
2016	293	3,007	2,088	5,388							
2017	276	2,740	1,979	4,995							
2018	209	2,491	1,924	4,624							

Note 1: Visits are self-reported by mother at time of birth.

Note 2: National data reports teens as 15-19; however, births to teens younger than 15 did occur but are small numbers and not reported.

Note 3: Participants may have marked unknown to number or dates of prenatal visits resulting in unknown values.

Note 4: In a few rare cases, mother's age was not recorded for the event; therefore, mother's age totals will not match county totals.

WY 2006-2018 Resident Mothers Who Were First Time Mothers by Mother's Age<sup>1</sup>

	15-19 <sup>2</sup>		20-29		>30		To	tal <sup>4</sup>
Year	Number	Percent <sup>3</sup>	Number	Percent <sup>3</sup>	Number	Percent <sup>3</sup>	Number	Percent <sup>3</sup>
2006	706	83%	1,892	39%	407	21%	3,005	39%
2007	755	82%	1,958	40%	443	22%	3,156	40%
2008	740	85%	1,940	38%	420	20%	3,100	39%
2009	680	84%	1,891	39%	484	22%	3,055	39%
2010	612	85%	1,907	41%	496	23%	3,015	40%
2011	532	86%	1,778	40%	482	22%	2,792	38%
2012	548	88%	1,835	40%	537	22%	2,920	39%
2013	475	88%	1,878	41%	543	22%	2,896	38%
2014	466	85%	1,844	40%	561	22%	2,871	37%
2015	434	85%	1,741	39%	613	23%	2,794	36%
2016	400	86%	1,628	40%	575	21%	2,603	35%
2017	365	86%	1,542	40%	587	22%	2,494	36%
2018	321	89%	1,474	41%	601	23%	2,396	37%

Note 1: Data is self-reported by the mother at the time of birth.

Note 2: National data reports teens as 15-19; however, births to teens younger than 15 did occur but are small numbers and not reported.

Note 3: Percentages are based on the total number of births recorded in the year. Data are rounded and may not add to 100% due to rounding error.

Note 4: In a few rare cases, mother's age was not recorded for the event; therefore, mother's age totals will not match county totals.

WY 2010-2018 Average Age of Resident Mothers Who Were First Time Mothers

County	2010	2011	2012	2013	2014	2015	2016	2017	2018
Albany	25	25	26	25	26	26	25	26	28
Big Horn	22	23	22	24	23	25	24	24	23
Campbell	23	23	23	23	24	24	25	25	25
Carbon	22	23	23	24	24	24	24	25	24
Converse	22	23	22	23	24	23	24	25	26
Crook	22	23	23	25	25	24	23	26	25
Fremont	22	23	23	23	23	23	23	24	24
Goshen	22	23	21	23	24	24	24	24	24
Hot Springs	24	25	24	27	24	23	25	23	23
Johnson	25	24	27	24	27	24	25	26	26
Laramie	24	24	24	24	24	25	25	25	26
Lincoln	24	25	24	23	25	23	25	26	26
Natrona	24	24	24	24	24	25	24	24	25
Niobrara <sup>1</sup>	23	23	23	25	23	25	24	25	25
Park	25	24	24	25	25	25	25	25	26
Platte	23	22	25	24	24	24	23	26	27
Sheridan	24	24	25	25	24	25	24	26	26
Sublette	25	25	24	25	26	25	26	26	27
Sweetwater	23	24	23	24	23	24	24	25	26
Teton	28	30	30	29	30	30	32	30	31
Uinta	23	23	23	23	23	23	23	23	24
Washakie	24	23	23	23	24	24	23	25	25
Weston	24	23	24	23	25	26	23	25	24
State	24	24	24	24	24	25	25	25	26

Note 1: Please be cautious when interpreting small numbers (fewer than 20 events) because these data do not meet the requirement for minimum degree of accuracy.

WY 2006-2018 Babies That Were Breastfed at Discharge by Mother's Age

	15-	·19 <sup>1</sup>	20-	-29	>3	30	To	tal <sup>3</sup>
Year	Number	Percent <sup>2</sup>						
2006	536	63%	3,604	74%	1,469	77%	5,609	73%
2007	619	68%	3,667	75%	1,600	79%	5,886	75%
2008	599	68%	3,872	77%	1,724	82%	6,195	77%
2009	568	70%	3,841	79%	1,845	84%	6,254	79%
2010	547	76%	3,767	81%	1,837	85%	6,151	82%
2011	446	72%	3,602	80%	1,914	86%	5,962	81%
2012	474	76%	3,685	81%	2,071	86%	6,230	82%
2013	437	81%	3,852	84%	2,131	87%	6,420	84%
2014	413	75%	3,830	83%	2,225	87%	6,468	84%
2015	367	72%	3,676	82%	2,324	86%	6,370	83%
2016	338	73%	3,365	82%	2,379	85%	6,082	82%
2017	324	76%	3,186	83%	2,213	84%	5,723	83%
2018	262	73%	2,909	81%	2,156	84%	5,327	81%

Note 1: National data reports teens as 15-19; however, births to teens younger than 15 did occur but are small numbers and not reported in this table.

Note 2: Percentages are based on the total number of births recorded in the year. Data are rounded and may not add to 100% due to rounding error.

Note 3: In a few rare cases, mother's age was not recorded for the event; therefore, mother's age totals will not match county totals.

WY 2011-2017 Babies That Were Breastfed at Discharge by County

	20	11		12	20	13	20	)14		15		016		017	20	018
County	Number	Percent <sup>2</sup>														
Albany	378	91%	380	92%	371	89%	401	93%	344	91%	366	90%	322	90%	306	93%
Big Horn	116	86%	123	81%	122	85%	124	86%	128	83%	109	82%	130	88%	105	85%
Campbell	612	81%	642	83%	600	82%	632	84%	666	84%	589	80%	561	89%	459	78%
Carbon	148	80%	146	78%	186	83%	164	79%	185	84%	179	82%	155	85%	149	81%
Converse	161	83%	124	76%	160	82%	171	81%	171	86%	141	82%	112	75%	140	82%
Crook	77	86%	85	91%	87	86%	90	90%	100	87%	96	91%	93	89%	93	86%
Fremont	413	70%	410	68%	432	73%	450	76%	415	73%	414	77%	418	80%	407	78%
Goshen	90	76%	112	79%	126	82%	125	82%	114	80%	115	85%	135	86%	91	81%
<b>Hot Springs</b>	47	90%	47	87%	44	86%	48	98%	40	85%	44	90%	41	91%	36	90%
Johnson	78	84%	85	89%	79	87%	75	86%	72	94%	80	91%	60	90%	68	94%
Laramie	1049	84%	1059	84%	1055	85%	1065	85%	1056	81%	1023	78%	1021	81%	1061	83%
Lincoln	219	89%	211	87%	205	90%	215	88%	228	86%	223	92%	208	89%	193	88%
Natrona	767	78%	877	79%	1007	87%	1027	84%	970	84%	935	85%	824	82%	767	80%
Niobrara <sup>1</sup>	18	86%	19	83%	25	93%	20	80%	20	65%	30	88%	26	90%	26	84%
Park	258	83%	289	87%	252	83%	283	91%	294	89%	267	86%	254	89%	228	83%
Platte	62	74%	72	76%	75	84%	72	84%	71	79%	68	82%	59	73%	62	86%
Sheridan	318	92%	277	90%	322	92%	302	92%	306	95%	310	95%	297	93%	260	89%
Sublette	115	91%	127	91%	117	92%	115	92%	123	93%	102	94%	87	89%	75	88%
Sweetwater	463	72%	498	79%	501	81%	446	71%	412	65%	394	65%	323	59%	287	59%
Teton	215	95%	242	95%	249	98%	236	98%	258	95%	232	98%	232	98%	216	93%
Uinta	220	73%	253	78%	243	80%	259	80%	250	83%	237	82%	239	83%	188	81%
Washakie	75	77%	82	90%	79	81%	90	92%	85	83%	65	90%	72	86%	66	81%
Weston	63	81%	73	86%	85	90%	60	90%	62	82%	67	86%	58	81%	46	81%
State	5,962	81%	6,233	82%	6,422	84%	6,470	84%	6,370	83%	6,086	82%	5,727	83%	5,329	81%

Note 1: Please be cautious when interpreting small numbers (fewer than 20 events) because these data do not meet the requirement for minimum degree of accuracy.

Note 2: Percentages are based on the number of births for each year. Percentages are rounded and may not add to 100% due to rounding error.

WY 2006-2018 Births that the Primary Source of Payment was Medicaid by Mother's Age

	15-	19 <sup>2</sup>	20	-29	>30		To	tal <sup>4</sup>
Year	Number	Percent <sup>3</sup>						
2006	609	72%	2,135	44%	414	22%	3,158	41%
2007	653	71%	2,052	42%	438	22%	3,143	40%
2008	603	69%	2,029	40%	434	21%	3,066	38%
2009	593	73%	2,037	42%	454	21%	3,084	39%
2010	541	75%	2,036	44%	486	22%	3,063	41%
2011	427	69%	1,811	40%	511	23%	2,749	37%
2012	426	69%	1,769	39%	522	22%	2,717	36%
2013	334	62%	1,794	39%	486	20%	2,614	34%
2014	353	64%	1,599	35%	482	19%	2,434	32%
2015	303	60%	1,595	36%	501	18%	2,404	31%
2016	306	66%	1,522	37%	565	20%	2,393	32%
2017	286	67%	1,367	36%	539	21%	2,192	32%
2018	230	64%	1,329	37%	497	19%	2,056	31%

Note 1: Data is reported by the hospital where the birth occurred.

Note 2: National data reports teens as 15-19; however, births to teens younger than 15 did occur but are small numbers and not reported.

Note 3: Percentages are based on the total number of births recorded in the year. Percentages are rounded and may not add to 100% due to rounding error.

Note 4: In a few rare cases, mother's age was not recorded for the event; therefore, mother's age totals will not match county totals.

WY 2011-2018 Births that the Primary Source of Payment was Medicaid¹ by County

	20	11	20	12	20	13	20	14	20	15	20	16	20	)17	20	18
County	Number	Percent <sup>2</sup>														
Albany	141	34%	151	36%	138	33%	133	31%	115	30%	125	31%	97	27%	86	26%
Big Horn	65	48%	76	50%	56	39%	41	28%	59	38%	66	50%	67	45%	46	37%
Campbell	242	32%	219	28%	198	27%	207	27%	220	28%	219	30%	163	26%	178	30%
Carbon	95	52%	70	37%	85	38%	76	37%	57	26%	72	33%	51	28%	57	31%
Converse	65	33%	54	33%	66	34%	77	36%	59	30%	55	32%	43	29%	49	29%
Crook	25	28%	21	23%	28	28%	17	17%	22	19%	20	19%	15	14%	23	21%
Fremont	368	62%	372	62%	340	57%	327	55%	310	54%	279	52%	260	50%	261	50%
Goshen	55	47%	65	46%	63	41%	48	31%	43	30%	46	34%	61	39%	35	31%
<b>Hot Springs</b>	21	42%	25	46%	20	39%	23	47%	19	40%	15	31%	17	38%	9	23%
Johnson	34	37%	27	28%	34	37%	15	17%	21	27%	27	31%	23	34%	16	22%
Laramie	439	35%	409	32%	424	34%	412	33%	439	34%	462	35%	413	33%	367	29%
Lincoln	81	33%	79	33%	69	30%	61	25%	80	30%	65	27%	57	24%	45	20%
Natrona	401	41%	444	40%	392	34%	410	34%	373	32%	384	35%	372	37%	356	37%
Niobrara	10	48%	11	48%	10	37%	11	44%	10	32%	5	15%	7	24%	13	42%
Park	124	40%	134	40%	120	39%	89	29%	100	30%	94	30%	100	35%	99	36%
Platte	32	38%	34	36%	37	42%	34	40%	34	38%	31	37%	28	35%	17	24%
Sheridan	127	37%	108	35%	116	33%	103	31%	87	27%	107	33%	101	32%	84	29%
Sublette	34	27%	24	17%	32	25%	27	22%	27	20%	27	25%	19	19%	18	21%
Sweetwater	153	24%	155	25%	156	25%	134	21%	115	18%	119	20%	111	20%	134	27%
Teton	58	26%	71	28%	62	24%	47	19%	59	22%	45	19%	43	18%	34	15%
Uinta	108	36%	117	36%	103	34%	97	30%	99	33%	90	31%	103	36%	82	35%
Washakie	42	43%	34	37%	34	35%	28	29%	32	31%	28	39%	27	32%	28	35%
Weston	30	38%	21	25%	33	35%	19	28%	24	32%	18	23%	19	26%	21	37%
State	2,750	37%	2,721	36%	2,616	34%	2,436	32%	2,404	37%	2,399	32%	2,197	32%	2,058	31%

Note 1: Data is reported by the hospital where the birth occurred.

Note 2: Percentages are based on the total number of births recorded in the year. Data are rounded and may not add to 100% due to rounding error.

Death Tables
WY 2018 Resident<sup>1</sup> Death Rate by County

County	Total Deaths	Population <sup>2</sup>	Rate <sup>3</sup>
Albany	204	38,601	528.5
Big Horn	130	11,881	1,094.2
Campbell	272	46,140	589.5
Carbon	118	14,971	788.2
Converse	112	13,640	821.1
Crook	69	7,450	926.2
Fremont	447	39,531	1,130.8
Goshen	159	13,376	1,188.7
Hot Springs	64	4,555	1,405.0
Johnson	110	8,460	1,300.2
Laramie	893	98,976	902.2
Lincoln	141	19,434	725.5
Natrona	741	79,115	936.6
Niobrara	26	2,388	1,088.8
Park	291	29,324	992.4
Platte	133	8,566	1,552.7
Sheridan	357	30,233	1,180.8
Sublette	81	9,813	825.4
Sweetwater	325	43,051	754.9
Teton	80	23,081	346.6
Uinta	138	20,299	679.8
Washakie	99	7,885	1,255.5
Weston	80	6,967	1,148.3
State	5,070	577,737	877.6

Note 1: Please refer to the definitions and technical calculations on page 48 of this document.

Note 2: Source of data is Population Division, U.S. Census Bureau Released April 18, 2019.

Note 3: Death rates are per 100,000 Population.

## WY 2004-2018 Resident Deaths by County

County	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Albany	167	165	196	177	163	173	194	179	205	198	186	155	205	199	204
Big Horn	122	143	141	149	156	119	139	130	137	131	139	119	127	164	130
Campbell	148	170	196	196	224	276	242	245	210	240	247	257	206	246	272
Carbon	137	128	137	142	134	142	123	121	115	133	152	124	152	147	118
Converse	101	70	79	103	100	101	104	116	122	131	120	132	121	135	112
Crook	43	55	44	46	44	54	58	51	70	67	53	54	65	63	69
Fremont	321	331	397	392	367	391	397	388	455	407	414	431	412	427	447
Goshen	145	125	122	136	117	128	147	126	148	136	150	135	144	133	159
Hot Springs	62	60	53	63	64	65	55	65	64	72	72	84	62	84	64
Johnson	80	87	79	74	86	83	94	77	86	83	85	101	97	99	110
Laramie	654	724	724	736	667	703	739	756	735	713	742	842	795	782	893
Lincoln	118	127	94	134	111	115	116	123	104	110	125	130	140	125	141
Natrona	544	604	659	560	601	644	641	644	640	733	703	747	691	713	741
Niobrara	16	27	36	23	29	30	25	23	27	24	31	42	23	27	26
Park	254	236	250	237	254	234	255	251	273	255	264	266	285	301	291
Platte	90	84	99	89	86	81	98	101	99	90	105	104	91	85	133
Sheridan	275	279	312	270	317	291	293	304	268	286	320	320	339	307	357
Sublette	53	62	49	48	52	54	48	48	45	43	56	51	51	51	81
Sweetwater	275	249	254	279	241	252	244	251	294	255	279	266	311	316	325
Teton	75	76	69	60	78	68	93	57	86	83	84	91	87	70	80
Uinta	116	126	132	140	139	118	145	126	118	139	145	150	141	148	138
Washakie	91	89	79	82	89	86	86	88	92	72	80	84	91	82	99
Weston	56	71	76	82	64	69	70	74	75	68	81	59	70	63	80
State	3,943	4,088	4,277	4,218	4,183	4,277	4,406	4,344	4,468	4,469	4,633	4,744	4,706	4,767	5,070

## WY 2004-2018 Occurrent Deaths by County

County	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Albany	156	177	196	170	168	160	187	167	188	188	165	161	182	182	207
Big Horn	107	123	110	110	139	103	120	113	102	94	119	99	96	116	104
Campbell	152	165	191	202	204	254	207	234	194	222	247	251	198	225	248
Carbon	126	113	127	127	108	105	114	97	101	106	136	99	133	134	96
Converse	63	52	65	67	73	71	78	78	77	85	80	88	81	94	99
Crook	26	41	30	31	40	37	51	46	42	49	43	32	46	43	61
Fremont	273	280	339	326	322	326	337	342	386	345	336	339	320	344	345
Goshen	114	97	92	90	100	95	124	103	110	100	115	105	114	94	122
Hot Springs	55	50	58	64	65	59	58	55	61	58	56	71	56	65	63
Johnson	70	86	75	65	76	72	90	79	78	73	76	100	84	88	98
Laramie	692	760	757	792	711	740	799	793	797	750	778	887	832	803	878
Lincoln	92	99	81	88	78	84	93	104	82	91	103	106	111	105	115
Natrona	625	677	736	651	682	749	748	753	774	868	823	894	804	852	870
Niobrara	8	17	23	20	20	20	17	21	23	18	18	34	24	20	21
Park	225	207	233	214	224	205	232	224	248	245	220	248	253	255	255
Platte	73	62	72	53	50	49	53	58	63	64	83	71	64	63	94
Sheridan	273	273	330	269	312	286	289	305	263	288	305	304	328	289	338
Sublette	51	46	39	48	40	42	50	49	38	37	46	45	36	40	63
Sweetwater	256	222	231	260	221	213	214	222	259	216	244	233	261	259	267
Teton	92	99	81	89	93	86	105	65	105	91	94	100	102	74	82
Uinta	105	110	112	121	124	104	130	102	97	125	112	118	112	121	110
Washakie	79	74	55	80	73	71	64	76	78	63	62	74	69	61	72
Weston	42	57	62	65	52	56	53	57	53	54	63	48	42	47	56
State	3,755	3,887	4,095	4,002	3,975	3,987	4,213	4,143	4,219	4,230	4,324	4,507	4,348	4,374	4,664

WY 2000-2018 Resident Infant Deaths by Natal Period<sup>3</sup>

Year	Neonatal <sup>1</sup>	Post-Neonatal <sup>2</sup>	Total Deaths
2000	29	13	42
2001	24	12	36
2002	26	19	45
2003	22	16	38
2004	40	20	60
2005	33	16	49
2006	36	22	58
2007	29	28	57
2008	35	22	57
2009	29	19	48
2010	31	20	51
2011	29	20	49
2012	24	15	39
2013	22	13	35
2014	39	10	49
2015	25	14	39
2016	24	13	37
2017	19	13	32
2018	19	15	34

Note 1: Neonatal - A death of a live born infant under 28 days of age.

Note 2: Post-Neonatal - A death of a live born infant between 28 days and 364 days of age.

Note 3: Please refer to the definitions and technical calculations on page 48 of this document.

WY 2008-2018 Five-Year Average Resident Infant Death Rates

County	2008-2012	2009-2013	2010-2014	2011-2015	2012-2016	2013-2017	2014-2018
Albany	3.8	3.8	5.2	4.9	4.9	3.5	3.7
Big Horn	8.5	8.5	7.2	8.3	9.7	8.3	1
Campbell	7.5	8.3	8.0	7.3	5.8	5.5	4.0
Carbon	6.9	6.8	5.0	5.9	6.6	8.5	7.9
Converse	1	1	5.3	1	1	1	1
Crook	1	1	1	10.0	9.7	1	9.4
Fremont	8.1	6.3	5.3	4.7	5.5	4.3	4.4
Goshen	1	1	1	7.1	6.9	9.4	8.6
Hot Springs	1	1	1	1	1	1	1
Johnson	1	1	1	1	1	1	1
Laramie	6.8	5.9	6.0	4.8	5.2	5.3	5.3
Lincoln	6.8	5.6	4.0	1	1	1	1
Natrona	7.4	7.3	7.1	6.4	6.1	6.7	7.2
Niobrara	1	1	1	1	1	1	1
Park	5.7	3.9	3.9	1	1	1	1
Platte	1	1	1	11.3	1	1	1
Sheridan	4.0	5.2	6.6	9.1	7.9	7.9	8.2
Sublette	1	1	1	1	1	1	1
Sweetwater	6.2	5.2	4.7	4.4	3.5	3.6	4.1
Teton	5.3	3.9	4.8	5.6	4.8	1	1
Uinta	6.1	5.6	5.7	5.8	4.5	4.6	7.0
Washakie	1	1	1	1	1	1	1
Weston	1	1	1	1	1	1	1
State	6.4	5.9	5.9	5.6	5.2	5.1	5.3

Note 1: Less than five events over the five year time period are not displayed.

WY 2000-2018 Resident Deaths by Disposition

Voor	Crem	ation	Bu	rial	Oth	ner <sup>1</sup>
Year	Number	Percent <sup>2</sup>	Number	Percent <sup>2</sup>	Number	Percent <sup>2</sup>
2000	983	25%	1,712	44%	1,220	31%
2001	1,257	31%	1,636	41%	1,136	28%
2002	1,395	33%	1,665	40%	1,109	27%
2003	1,527	37%	1,552	38%	1,037	25%
2004	1,435	36%	1,439	36%	1,069	27%
2005	1,559	38%	1,425	35%	1,104	27%
2006	1,667	39%	1,460	34%	1,150	27%
2007	1,857	44%	1,380	33%	981	23%
2008	1,895	45%	1,318	32%	970	23%
2009	2,220	52%	1,358	32%	699	16%
2010	2,455	56%	1,363	31%	588	13%
2011	2,654	61%	1,356	31%	332	8%
2012	2,854	64%	1,375	31%	239	5%
2013	2,959	66%	1,329	30%	181	4%
2014	3,077	66%	1,384	30%	172	4%
2015	3,219	68%	1,356	29%	169	4%
2016	3,310	70%	1,258	27%	138	3%
2017	7 3,361 66%		1,269 25%		137	3%
2018	3,594	71%	1,323	26%	153	3%

Note 1: Other disposition includes removal from state, donation, entombment, other, and unknown. Improved data collection methods by the National Centers for Health Statistics (NCHS) and Vital Statistics Services account for this decline in the other category.

Note 2: Percentages are based on the total number of deaths for each category. Data are rounded and may not add to 100% due to rounding error.

## WY 2013-2018 Resident Deaths by Disposition and County

		2013			2014			2015		,	2016		_	2017			2018	
County	Cremation	Burial	Other <sup>1</sup>															
Albany	143	43	12	140	38	8	110	32	12	149	43	13	154	35	10	155	39	10
Big Horn	64	51	16	81	46	12	63	47	9	75	43	9	92	63	9	70	56	4
Campbell	157	67	16	156	83	8	160	90	7	143	56	7	165	76	5	187	74	11
Carbon	105	24	4	112	35	5	102	17	5	125	23	4	112	29	6	91	23	4
Converse	90	36	5	80	39	1	91	37	3	81	36	4	101	32	2	80	30	2
Crook	33	29	5	24	23	6	31	20	3	40	18	7	40	20	3	46	21	2
Fremont	236	158	13	221	178	15	251	167	12	246	158	8	268	152	7	278	156	13
Goshen	87	44	5	98	47	5	89	41	5	102	38	4	101	25	7	96	53	10
<b>Hot Springs</b>	47	24	1	47	23	2	54	24	6	47	15	0	67	17	0	48	15	1
Johnson	50	33	0	55	28	2	59	41	1	55	39	3	70	28	1	71	36	3
Laramie	496	185	32	511	192	39	595	214	31	598	165	32	566	165	51	641	204	48
Lincoln	49	54	7	61	56	8	51	78	1	72	67	2	62	63	0	62	79	0
Natrona	540	179	14	519	172	12	570	170	6	521	157	13	531	167	15	583	144	14
Niobrara	15	7	2	16	14	1	20	21	1	12	10	1	18	9	0	19	7	0
Park	169	80	6	189	71	4	180	76	10	207	73	5	212	88	1	211	75	5
Platte	55	32	3	81	22	2	73	29	2	61	27	3	58	25	2	101	29	3
Sheridan	213	65	8	229	76	15	240	69	11	256	73	10	238	62	7	277	73	7
Sublette	28	14	1	35	19	2	32	19	0	39	12	0	42	8	1	69	12	0
Sweetwater	165	82	8	181	89	9	196	57	13	222	85	4	216	95	5	240	79	6
Teton	65	16	2	60	23	1	80	9	2	76	8	3	64	6	0	64	16	0
Uinta	65	61	13	77	61	7	77	59	14	76	64	1	84	62	2	81	52	5
Washakie	43	23	6	54	22	4	53	23	8	57	31	3	59	22	1	68	29	2
Weston	44	22	2	50	27	4	40	16	3	50	18	2	41	20	2	56	21	3
State	2,959	1,329	181	3,077	1,384	172	3,217	1,356	166	3,310	1,259	138	3,361	1,269	137	3,594	1,323	153

Note 1: Other disposition includes removal from state, donation, entombment, other, and unknown. Improved data collection methods by the National Centers for Health Statistics (NCHS) and Vital Statistics Services account for this decline in the other category.

# WY 2018 Top Five Causes of Death by County of Residence

County	1st Cause	2nd Cause	3rd Cause	4th Cause	5th Cause
Albany	Major Cardiovascular	Cancer	Alzheimer's Disease	Chronic Lower Respiratory	Other Unintentional Injuries
Big Horn	Major Cardiovas cular	Cancer	Alzheimer's Disease	Chronic Lower Respiratory	Other Unintentional Injuries
Campbell	Major Cardiovascular	Cancer	Alzheimer's Disease	Other Unintentional Injuries	Chronic Lower Respiratory
Carbon	Major Cardiovascular	Cancer	Other Unintentional Injuries	Chronic Lower Respiratory	Alzheimer's Disease
Converse	Cancer	Major Cardiovas cular	Chronic Lower Respiratory	Other Unintentional Injuries	Alzheimer's Disease
Crook	Major Cardiovascular	Cancer		Too few deaths	
Fremont	Major Cardiovascular	Cancer	Other Unintentional Injuries	Chronic Lower Respiratory	Diabetes Mellitus
Goshen	Cancer	Major Cardiovas cular	Other Unintentional Injuries	Chronic Lower Respiratory	Chronic Liver Disease & Cirrhosis
Hot Springs	Major Cardiovas cular	Cancer	Alzheimer's Disease	Too fev	v deaths
Johnson	Major Cardiovascular	Cancer	Chronic Lower Respiratory	Pneumonia and Influenza	Other Unintentional Injuries
Laramie	Major Cardiovascular	Cancer	Chronic Lower Respiratory	Alzheimer's Disease	Other Unintentional Injuries
Lincoln	Major Cardiovascular	Cancer	Other Unintentional Injuries	Chronic Lower Respiratory	Alzheimer's Disease
Natrona	Major Cardiovas cular	Cancer	Chronic Lower Respiratory	Other Unintentional Injuries	Alzheimer's Disease
Niobrara	Cancer	Too few deaths	Too few deaths	Too few deaths	Too few deaths
Park	Cancer	Major Cardiovas cular	Other Unintentional Injuries	Chronic Lower Respiratory	Alzheimer's Disease/Suicide
Platte	Major Cardiovascular	Cancer	Chronic Lower Respiratory	Other Unintentional Injuries	Diabetes Mellitus
Sheridan	Cancer	Major Cardiovas cular	Chronic Lower Respiratory	Other Unintentional Injuries	Alzheimer's Disease
Sublette	Major Cardiovascular	Cancer	Other Unintentional Injuries	Chronic Lower Respiratory	Alzheimer's Disease
Sweetwater	Cancer	Major Cardiovas cular	Other Unintentional Injuries	Chronic Lower Respiratory	Alzheimer's Disease
Teton	Major Cardiovas cular	Cancer	Other Unintentional Injuries	Alzheimer's Disease	Too few deaths
Uinta	Major Cardiovas cular	Cancer	Other Unintentional Injuries	Chronic Lower Respiratory	Diabetes Mellitus
Washakie	Cancer	Major Cardiovas cular	Other Unintentional Injuries	Chronic Lower Respiratory	Too few deaths
Weston	Major Cardiovas cular	Cancer	Too few deaths	Too few deaths	Too few deaths

## WY 2004-2018 Age-Adjusted Suicide Rates<sup>1</sup> by County of Residence

County	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Albany	2	18.8	18.4	2	22.3	20.2	2	21.2	19.5	16.0	15.0	2	23.8	19.4	32.6
Big Horn	2	2	2	2	2	2	2	2	2	2	2	2	2	50.3	2
Campbell	14.0	2	14.4	2	14.1	21.2	30.7	21.8	29.3	35.0	19.6	18.5	13.1	31.7	22.1
Carbon	36.6	2	2	2	42.0	2	2	2	2	35.8	34.9	2	47.9	34.8	2
Converse	2	2	2	2	41.8	47.3	2	2	67.1	2	2	2	50.1	37.4	2
Crook	2	2	2	2	2	2	48.5	2	2	2	2	2	2	2	2
Fremont	18.4	31.3	44.6	42.9	31.8	22.3	12.8	35.5	50.6	20.8	29.8	32.2	45.0	30.9	2
Goshen	30.8	2	2	2	2	2	2	2	2	2	2	32.5	2	2	2
Hot Springs	2	2	2	2	2	2	2	2	2	2	2	2	2	98.8	2
Johnson	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Laramie	17.2	15.6	17.7	18.4	17.2	21.4	26.6	30.8	30.4	15.6	21.2	27.8	24.4	23.2	36.2
Lincoln	2	2	2	2	34.7	33.8	2	2	2	2	2	2	2	2	2
Natrona	21.2	17.8	24.9	26.9	13.5	24.1	30.3	21.7	31.0	25.9	24.6	39.0	22.8	29.2	33.7
Niobrara	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Park	25.8	15.7	2	16.7	20.8	2	2	20.3	45.7	36.3	16.4	36.3	32.5	28.9	19.6
Platte	2	2	2	2	2	2	2	2	2	2	2	66.9	2	2	2
Sheridan	2	33.4	29.5	2	34.7	22.4	19.9	22.3	32.6	35.5	31.2	45.6	18.1	19.2	14.9
Sublette	2	2	2	2	2	2	2	69.4	2	2	2	2	70.8	2	2
Sweetwater	20.7	15.1	36.7	25.0	28.1	24.3	28.8	37.1	35.3	28.1	2	32.4	16.9	35.8	23.6
Teton	2	15.3	24.6	2	24.2	2	2	2	2	2	2	2	2	2	2
Uinta	2	2	2	2	2	44.6	46.2	2	49.4	2	2	37.1	30.4	24.6	2
Washakie	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Weston	2	2	2	2	2	2	2	2	2	100.3	2	2	2	2	2
State	19.6	17.7	21.4	19.5	22.8	20.7	23.8	23.8	31.2	23.1	20.8	27.7	24.8	26.4	25.0

Note 1: Rates per 100,000 people and age-adjusted to the 2000 US Standard Population.

Note 2: Events of less than five have been suppressed. Caution should be used in the interpretation of vital statistics rates which are based on a small population or a small number of events.

WY 2008-2018 Ten Year Age-Adjusted Suicide Rate 1 by County of Residence

County	2008-2018
Albany	17.9
Big Horn	22.6
Campbell	22.6
Carbon	26.3
Converse	32.1
Crook	28.7
Fremont	28.7
Goshen	14.1
Hot Springs	24.9
Johnson	27.4
Laramie	24.4
Lincoln	18.4
Natrona	26.3
Niobrara <sup>2</sup>	32.2
Park	24.4
Platte	31.4
Sheridan	24.7
Sublette	30.9
Sweetwater	25.7
Teton	12.5
Uinta	26.5
Washakie	15.1
Weston	26.4
State	23.9

Note 1: Rates per 100,000 people and age-adjusted to the 2000 US Standard Population.

Note 2: Caution should be used in the interpretation of vital statistics rates which are based on a small population or a small number of events. For example, Niobrara rate has seen great fluctuations from year to year, but the numbers are very small.

### WY 2007-2018 Suicides by Means

	Poisc	oning	Han	ging	Fire	arm	Otl	her	Total					
Years	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number					
2007	14	14%	12	12%	67	68%	6	6%	99					
2008	13	14%	18	12%	85	68%	4	6%	120					
2009	6	5%	17	15%	82	73%	7	6%	112					
2010	22	17%	17	13%	83	64%	8	6%	130					
2011	20	17%	17	13%	84	64%	8	6%	129					
2012	30	18%	32	19%	102	60%	7	4%	171					
2013	20	16%	16	12%	89	69%	4	3%	129					
2014	24	20%	17	14%	78	64%	2	2%	121					
2015	18	12%	35	23%	93	60%	9	6%	155					
2016	21	15%	28	20%	87	61%	7	5%	143					
2017	12	8%	36	23%	100	64%	9	6%	157					
2018	11	7%	22	15%	108	73%	7	5%	148					

WY 2010-2018 Drug Overdose Deaths

					Combin	ation of			Total Overdose
	Prescript	ion Drugs	Illicit Drugs		Illicit and Rx Drugs		Unspecifi	ed Drugs <sup>1</sup>	Deaths
Years	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number
2010	49	58%	3	4%	1	1%	31	37%	84
2011	48	59%	2	2%	4	5%	27	33%	81
2012	50	51%	9	9%	3	3%	37	37%	99
2013	48	50%	12	13%	4	4%	32	33%	96
2014	47	44%	15	14%	12	11%	33	31%	107
2015	46	48%	15	16%	7	7%	27	28%	95
2016	53	56%	16	17%	6	6%	19	20%	94
2017 <sup>2</sup>	40	67%	11	18%	8	13%	1	2%	60
2018 <sup>2</sup>	35	54%	21	32%	8	12%	1	2%	65

Note 1: Due to changes in accuracy of reporting, specific drug percentages should not be compared to anything after 2016. For example, even though there is an increase in prescription drug use from 2016 to 2017 this increase is inflated by the decrease in unspecified drugs over the same time period. Most of the unspecified would have been included in the prescription drug overdose number so there would have likely been none to a small increase.

Note 2: The unspecified drugs in these two years were based on information from another state about a Wyoming resident.

# WY 2018 Age Adjusted Death Rates by Sex and Specific Causes

Cause of Death	White	Black	American Indian/Alaskan Native	Asian
All Deaths	741.5	543.8	949.8	378.3
Heart Disease	152.6	111.2	103.2	93.1
Cancer	140.4	121.8	189.6	90.0
Alzheimer's Disease	39.7	25.5	14.9	76.0
Diabetes Mellitus	21.1	11.4	44.1	36.9
Influzena & Pneumonia	18.0	0.0	42.3	0.0
Chronic Lower Respiratory Diseases	58.6	71.9	84.3	0.0
Accidents and Adverse Effects	54.9	33.3	143.2	0.0
Suicide	26.0	6.0	12.5	0.0

## WY 2018 Age Adjusted Death Rates by Sex and Race

Race	Male	Female	Male and Female
White	860.9	633.3	741.5
Black	693.9	418.0	543.8
American Indian/Alaskan Native	804.2	1089.1	949.8
Asian	326.8	411.4	378.3

## WY 2018 Age Adjusted Death Rates by Cause of Death and Sex

Cause of Death	Male	Female	Male and Female
All Deaths	856.3	640	742.5
Heart Disease	194.2	113.6	151.2
Cancer	160.1	125.4	140.6
Alzheimer's Disease	32.4	44.3	39.5
Diabetes Mellitus	27.1	16.7	21.4
Influzena & Pneumonia	19.6	17.6	18.3
Chronic Lower Respiratory Diseases	67.5	51	58.5
Accidents and Adverse Effects	78.3	35.6	56.5
Suicide	35.9	13.8	25.0

Marriage Tables
WY 2018 Marriage Rate<sup>1</sup> by County of Occurrence Marriage Tables

County	Number	Population <sup>2</sup>	Rate <sup>3</sup>
Albany	226	38,601	5.9
Big Horn	53	11,881	4.5
Campbell	257	46,140	5.6
Carbon	117	14,971	7.8
Converse	105	13,640	7.7
Crook	55	7,450	7.4
Fremont	206	39,531	5.2
Goshen	51	13,376	3.8
Hot Springs	36	4,555	7.9
Johnson	67	8,460	7.9
Laramie	742	98,976	7.5
Lincoln	125	19,434	6.4
Natrona	526	79,115	6.6
Niobrara	16	2,388	6.7
Park	205	29,324	7.0
Platte	50	8,566	5.8
Sheridan	220	30,233	7.3
Sublette	74	9,813	7.5
Sweetwater	231	43,051	5.4
Teton	546	23,081	23.7
Uinta	135	20,299	6.7
Washakie	48	7,885	6.1
Weston	33	6,967	4.7
State	4,124	577,737	7.1

Note 1: Please refer to the definitions and technical calculations on page 48 of this document.

Note 2: Source of data is Population Division, U.S. Census Bureau Released April 18, 2019.

Note 3: Marriage rates are per 1,000 Population.

# WY 2009-2018 Marriages by County of Occurrence

County	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Albany	200	188	214	190	216	240	249	229	210	226
Big Horn	68	79	73	81	73	66	65	64	58	53
Campbell	365	328	335	320	304	332	282	264	268	257
Carbon	115	121	117	124	139	113	111	103	111	117
Converse	115	138	107	116	112	125	109	108	89	105
Crook	41	50	50	46	56	43	61	55	46	55
Fremont	288	270	310	294	276	291	251	228	218	206
Goshen	66	63	87	86	64	83	90	79	69	51
<b>Hot Springs</b>	61	43	52	51	38	45	35	34	34	36
Johnson	80	72	74	86	71	71	81	59	77	67
Laramie	756	693	718	734	709	707	675	713	722	742
Lincoln	91	92	114	84	99	100	111	97	132	125
Natrona	515	528	509	597	606	596	567	521	509	526
Niobrara	24	13	14	20	13	18	15	10	12	16
Park	253	223	248	265	226	269	210	209	224	205
Platte	57	71	65	53	45	49	50	59	56	50
Sheridan	227	252	243	233	238	229	245	233	234	220
Sublette	80	89	64	61	79	69	56	69	50	74
Sweetwate	280	257	285	302	280	309	268	255	237	231
Teton	500	472	485	513	486	500	523	534	554	546
Uinta	167	126	158	158	155	136	153	128	145	135
Washakie	62	67	62	54	67	51	59	59	48	48
Weston	48	42	39	39	48	34	38	35	30	33
State	4,459	4,277	4,423	4,507	4,400	4,476	4,306	4,145	4,133	4,124

Divorce Tables
WY 2018 Divorce Rate by County of Occurrence<sup>1</sup>

County	<b>Total Divorces</b>	Population <sup>2</sup>	Rate <sup>3</sup>
Albany	75	38,601	1.9
Big Horn	41	11,881	3.5
Campbell	208	46,140	4.5
Carbon	56	14,971	3.7
Converse	65	13,640	4.8
Crook	19	7,450	2.6
Fremont	124	39,531	3.1
Goshen	31	13,376	2.3
Hot Springs	21	4,555	4.6
Johnson	26	8,460	3.1
Laramie	444	98,976	4.5
Lincoln	77	19,434	4.0
Natrona	328	79,115	4.1
Niobrara	10	2,388	4.2
Park	131	29,324	4.5
Platte	29	8,566	3.4
Sheridan	82	30,233	2.7
Sublette	48	9,813	4.9
Sweetwater	135	43,051	3.1
Teton	80	23,081	3.5
Uinta	99	20,299	4.9
Washakie	17	7,885	2.2
Weston	24	6,967	3.4
State	2,170	577,737	3.8

Note 1: Please refer to the definitions and technical calculations on page 48 of this

Note 2: Source of data is Population Division, U.S. Census Bureau Released April 18, 2019.

Note 3: Divorce rates are per 1,000 Population

# WY 2009-2018 Divorces by County of Occurrence

County	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Albany	91	88	52	70	88	106	103	105	100	75
Big Horn	36	50	36	21	48	42	43	36	29	41
Campbell	294	296	272	233	256	224	260	219	222	208
Carbon	73	90	62	60	78	69	69	57	50	56
Converse	77	78	68	71	47	70	84	95	51	65
Crook	25	28	25	20	17	18	29	17	18	19
Fremont	169	175	181	170	167	169	173	173	171	124
Goshen	52	55	65	51	60	45	42	51	42	31
Hot Springs	31	33	18	26	24	27	26	25	27	21
Johnson	46	45	44	36	46	42	33	36	31	26
Laramie	526	518	527	451	450	442	457	494	434	444
Lincoln	69	64	66	68	61	42	54	61	71	77
Natrona	423	432	413	424	389	372	340	363	357	328
Niobrara	7	17	13	13	14	11	9	9	14	10
Park	149	137	125	132	119	115	109	141	123	131
Platte	44	43	48	42	29	33	26	34	33	29
Sheridan	134	157	142	144	111	130	117	127	104	82
Sublette	53	60	61	50	41	33	32	28	43	48
Sweetwater	243	224	231	226	212	197	194	180	170	135
Teton	79	79	72	77	73	75	68	63	74	80
Uinta	145	128	117	109	95	99	98	90	87	99
Washakie	47	43	40	40	36	48	40	34	22	17
Weston	43	31	38	30	21	34	29	24	27	24
State	2,856	2,871	2,716	2,564	2,482	2,443	2,435	2,462	2,300	2,170

### WY 2012-2018 Divorces that Involve At Least One Minor

	20	12	20	13	20	)14	20	15	20	16	20	)17	20	)18
County	Number	Percent <sup>2</sup>												
Albany	25	36%	35	40%	44	42%	51	50%	43	41%	42	42%	26	35%
Big Horn	18	86%	22	46%	18	43%	22	51%	14	39%	15	52%	15	37%
Campbell	116	50%	139	54%	102	46%	134	52%	102	47%	110	50%	101	49%
Carbon	24	40%	34	44%	38	55%	30	43%	25	44%	27	54%	31	55%
Converse	30	42%	21	45%	34	49%	43	51%	50	53%	31	61%	33	51%
Crook	10	50%	9	53%	7	39%	16	55%	6	35%	6	33%	12	63%
Fremont	87	51%	81	49%	85	50%	77	45%	77	45%	91	53%	75	60%
Goshen	20	39%	24	40%	21	47%	19	45%	26	51%	19	45%	17	55%
<b>Hot Springs</b>	10	38%	8	33%	11	41%	9	35%	10	40%	7	26%	11	52%
Johnson	20	56%	25	54%	25	60%	15	45%	18	50%	15	48%	10	38%
Laramie	203	45%	213	47%	220	50%	241	53%	228	46%	175	40%	204	46%
Lincoln	30	44%	31	51%	22	52%	32	59%	27	44%	31	44%	32	42%
Natrona	210	50%	179	46%	165	44%	148	44%	169	47%	172	48%	143	44%
Niobrara	3	23%	5	36%	4	36%	4	44%	2	22%	2	14%	3	30%
Park	59	45%	60	50%	48	42%	49	45%	59	42%	58	47%	65	50%
Platte	15	36%	14	48%	17	52%	8	31%	13	38%	16	48%	10	34%
Sheridan	72	50%	42	38%	56	43%	49	42%	54	43%	33	32%	29	35%
Sublette	25	50%	18	44%	17	52%	14	44%	13	46%	20	47%	24	50%
Sweetwater	121	54%	99	47%	97	49%	100	52%	87	48%	80	47%	66	49%
Teton	33	43%	26	36%	32	43%	24	35%	26	41%	31	42%	27	34%
Uinta	51	47%	53	56%	52	53%	56	57%	50	56%	42	48%	48	48%
Washakie	14	35%	17	47%	25	52%	20	50%	16	47%	10	45%	4	24%
Weston	16	53%	10	48%	10	29%	16	55%	11	46%	17	63%	9	38%
State	1,212	47%	1,165	47%	1,150	47%	1,177	48%	1,126	46%	1,050	46%	995	46%

#### **Definitions and Technical Calculations (Page 1 of 3)**

**Residence Data** - Data complied on the basis of the place of residence of the decedent (deaths) or the place of residence of the child's mother (births). For example, a child who is born in Denver, Colorado (Denver County) but the mother claims residence in Casper, Wyoming (Natrona County) would be included in the resident count for Natrona County. Wyoming receives birth and death certificates from other states for Wyoming residents that were born or died in the other state. Temporary residence such as a visit, business trip, or vacation is not considered the usual place of residence.

Residence data is mostly used in the birth tables because Wyoming does not have a tertiary (level 3) care unit for those babies who need extra care.

Consequently, many high risk births occur out of state. Resident data is important to programs such as a statewide breastfeeding effort that targets residents.

**Occurrence Data** - Data complied on the basis of where the event actually occurred, regardless of the person's place of residence. For example, a person died in Laramie, Wyoming (Albany County) but claimed residence in Goshen, Wyoming (Platte County) would be included in the occurrence count for Albany County. This data would also include a non-resident of Wyoming who died in Wyoming. For example, a resident from Denver, Colorado (Denver County) that died in Casper, Wyoming (Natrona County) would be included in the occurrence count for Natrona, County. This individual would not be included in any resident counts.

Occurrence data can be important to show the patterns of intra-state and inter-state mobility for health care needs. For example, a major birthing hospital in a large city near the state's border will attract mothers from other areas of the state as well as from the neighboring state. In Wyoming, several counties including Big Horn, Crook, Niobrara, and Sublette do not have birthing facilities within their borders; consequently, mothers travel to other areas of Wyoming or outside of Wyoming to give birth. This is also true for those individuals that die. They may seek care at a major hospital outside of the state.

**Live Birth** - A birth that shows any sign of life after delivery.

Low Birth Weight Baby - A baby born weighing less than 2500 grams or 5 pounds 8 ounces.

**Preterm Baby -** A baby born before 37 weeks gestation.

#### **Definitions and Technical Calculations (Page 2 of 3)**

Adequacy of Prenatal Care Utilization Index (APNCU) - A measure of prenatal care utilization that was developed by Kotelchuck and examines two dimensions. The first dimension examines the timing of initiation and the second dimension looks at the ratio of actual number of visits to expected number of visits. American College of Obstetricians and Gynecologists (ACOG) recommends 14 visits. Rates are classified as "Adequate Plus, Adequate, Intermediate, or Inadequate."

- Adequate Plus Defined as prenatal care starting in the fourth month and 110% or more of recommended visits.
- Adequate Defined as prenatal care starting in the fourth month and 80-109% of recommended visits.
- Intermediate Defined as prenatal care starting in the fourth month and 50-79% of recommended visits.
- **Inadequate** Defined as prenatal care starting in the fourth month and less than 50% of recommended visits.

**Maternal Death** - A death of a mother caused by complications of pregnancy, childbirth, or the puerperium period.

**Infant Death -** A death of a live born infant under one year of age.

- Neonatal Death A death of a live born infant under 28 days of age.
- Post-Neonatal Death A death of a live born infant between 28 and 364 days of age.

**Fetal (Stillborn) Death** – Death taking place after 20 weeks gestation and before birth.

**Tertiary care** — Specialized consultative health care, in a facility that has personnel and facilities for advanced medical investigation and treatment.

**Drug Overdose Deaths** — Beginning in late 2016, a change in accuracy of reporting drug specific drug overdose deaths began. A very significant drop in percentage of overdose deaths that were specified caused issues with a comparison of specific drug overdoses throughout time. Due the changes in reporting data from 2016 to 2017 should be cautiously done. Prescription drug overdose deaths are likely undercounted from prior years due to the high number of unspecified drugs that would have been counted in this category. For example, even though there is an decrease from 2016 to 2017 in the prescription drug overdose deaths, it is highly likely this decrease in numbers would be far greater if the 19 unspecified drugs in 2016 where counted as a prescription drug overdose. The likelihood that these 19 would end up as prescription drug overdose deaths is high.

### **Definitions and Technical Calculations (Page 3 of 3)**

**Crude Birth Rate** — Number of live births per 1,000 total population.

$$\left(\frac{Live\ Births}{Total\ Population}\right)*1000$$

Fertility Birth Rate — Number of live births per 1,000 women 15-44 years of age.

$$\left(\frac{\text{Live Births}}{\text{Females Ages } 15-44}\right) * 1000$$

**Crude Death Rate** – Number of deaths per 100,000 population.

$$\left(\frac{Deaths}{Total\ Population}\right) * 100,000$$

**Infant Death Rate** — Number of infants under one year of age that died per 1,000 live births.

$$\left(\frac{Infant\ Deaths}{Live\ Births}\right) * 1000$$

**Age-Adjusted Death Rate** — Rates are used to statistical allow comparison between different size groups. It is computed by applying national age-specific death rates to a standard population. Age-adjusted rates should not be compared to crude rates.

**Marriage Rate** – Number of marriages per 1,000 population.

$$\left(\frac{Marriages}{Total\ Population}\right) * 1000$$

**Divorce Rate** – Number of divorces per 1,000 population.

$$\left(\frac{Divorces}{Total\ Population}\right) * 1000$$

#### Links for more information

Wyoming Department of Health Vital Statistics Services – https://health.wyo.gov/admin/vitalstatistics/

Wyoming Department of Health - <a href="https://health.wyo.gov">https://health.wyo.gov</a>

Wyoming Department of Transportation- <a href="http://dot.state.wy.us/home/planning\_projects/Traffic\_Data">http://dot.state.wy.us/home/planning\_projects/Traffic\_Data</a>

Wyoming Department of Administration and Information - <a href="http://eadiv.state.wy.us/">http://eadiv.state.wy.us/</a> Economics Analysis Division

Center for Disease Control and Prevention (CDC) - <a href="http://www.cdc.gov/">http://www.cdc.gov/</a>

National Center for Health Statistics (NCHS) - <a href="http://www.cdc.gov/nchs/">http://www.cdc.gov/nchs/</a>

National Vital Statistics System - <a href="http://www.cdc.gov/nchs/nvss.htm">http://www.cdc.gov/nchs/nvss.htm</a>

CDC Wonder (online national data) - <a href="http://wonder.cdc.gov/">http://wonder.cdc.gov/</a>

Census Bureau - <a href="http://www.census.gov/">http://www.census.gov/</a>

Wyoming Hospital Association Data - <a href="http://wyopricepoint.com/consumer.aspx">http://wyopricepoint.com/consumer.aspx</a>