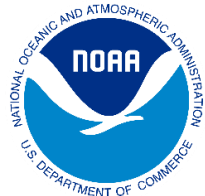




NOAA Atlas 14



Precipitation-Frequency Atlas of the United States

Volume 12 Version 2.0: Interior Northwest
Idaho, Montana, Wyoming

Carl Trypaluk, Dale Unruh, Michael St. Laurent, Austin Jordan,
Rama Sesha Sridhar Mantripragada, Sandra Pavlovic,
Greg Fall, Fernando Salas

U.S. Department
of Commerce

National Oceanic
and Atmospheric
Administration

National Weather
Service

Silver Spring,
Maryland, 2024

NOAA Atlas 14

Precipitation-Frequency Atlas of the United States

Volume 12 Version 2.0: Interior Northwest

Idaho, Montana, Wyoming

Carl Trypaluk, Dale Unruh, Michael St. Laurent, Austin Jordan, Rama Sesha Sridhar
Mantripragada, Sandra Pavlovic, Greg Fall, Fernando Salas

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
Silver Spring, Maryland, 2024

Library of Congress Classification Number
G1046
.C8
U6
no.14
v.12
(2024)

Table of Contents

1. Abstract.....	1
2. Preface to Volume 12	2
3. Introduction.....	3
3.1. Objective	3
3.2. Approach and deliverables.....	3
4. Frequency Analysis.....	5
4.1. Project Area	5
4.2. Precipitation data collection and formatting	8
4.3. Annual maximum series extraction	12
4.4. Station screening.....	15
4.5. AMS Screening and quality control.....	19
4.5.1. Outliers	19
4.5.2. Missing significant events in records.....	20
4.5.3. Corrections for constrained observations.....	22
4.5.4. Inconsistencies across durations	23
4.5.5. Trend analysis.....	24
4.6. Precipitation frequency estimates with confidence limits.....	24
4.6.1. Overview of methodology and related terminology	24
4.6.2. Regionalization	26
4.6.3. AMS-based estimates	28
4.6.4. PDS-based estimates.....	30
4.6.5. Confidence limits.....	31
4.7. Rainfall (liquid precipitation) frequency estimates.....	31
4.7.1. Background.....	31
4.7.2. Extraction of rainfall data	31
4.7.3. Rainfall frequency estimates.....	32
4.7.4. Development of rainfall frequency grids and confidence limits.....	34
4.8. Derivation of grids	35
4.8.1. Mean annual maximum precipitation	35
4.8.2. Precipitation frequency estimates with confidence limits.....	36
5. Precipitation Frequency Data Server	40
6. Peer review	41
7. Comparison with previous NOAA publications	42
Appendix A.1. Metadata for stations used to prepare precipitation frequency estimates.	A.1-1
Appendix A.2. Annual maximum series trend analysis	A.2-1
Appendix A.3. PRISM report	A.3-1
Appendix A.4. Peer review comments and responses	A.4-1
Appendix A.5. Temporal distributions of heavy precipitation	A.5-1
Appendix A.6. Seasonality	A.6-1
Acknowledgments.....	Acknowledgments-1
Acronyms, abbreviations	Acronyms-1
Glossary	Glossary-1
References.....	References-1

1. Abstract

NOAA Atlas 14 contains precipitation frequency estimates for the United States and U.S. affiliated territories with associated lower and upper bounds of the 90% confidence interval and supplementary information on temporal distribution of heavy precipitation, analysis of seasonality and trends in annual maximum series data, etc. It includes pertinent information on development methodologies and intermediate results. The results are published through the [Precipitation Frequency Data Server \(PFDS\)](#).

The Atlas is divided into volumes based on geographic sections of the country. It is intended as the U.S. Government source of precipitation frequency estimates and associated information for the United States and U.S. affiliated territories.

2. Preface to Volume 12

NOAA Atlas 14 Volume 12 contains precipitation frequency estimates for selected durations and frequencies with associated lower and upper bounds of the 90% confidence interval and supplementary information on the temporal distribution of heavy precipitation, analysis of seasonality and trends in annual maximum series data, etc., for the states of Montana, Idaho and Wyoming. The results are published through the [PFDS](#).

NOAA Atlas 14 Volume 12 was developed by the Hydrometeorological Design Studies Center within the Office of Water Prediction of the National Oceanic and Atmospheric Administration's National Weather Service. Any use of trade names in this publication is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Citation and version history. This documentation and associated artifacts such as maps, grids, and point-and-click results from the PFDS are part of a whole with a single version number and can be referenced as:

Carl Trypaluk, Dale Unruh, Michael St. Laurent, Austin Jordan, Rama Sesha Sridhar Mantripragada, Sandra Pavlovic, Greg Fall, Fernando Salas (2024). NOAA Atlas 14 Volume 12 Version 2, *Precipitation-Frequency Atlas of the United States, Interior Northwest*. NOAA, National Weather Service, Silver Spring, MD.

The version number has the format P.S, where P is a primary version number representing a number of successive releases of primary information. Primary information is essentially the data. S is a secondary version number representing successive releases of secondary information. Secondary information includes documentation and metadata. S reverts to zero (or nothing; i.e., Version 2 and Version 2.0 are equivalent) when P is incremented.

When documentation is completed and added without changing any prior information, the version number is not incremented. The primary version number is stamped on the artifact or is included as part of the filename where the format does not allow for a version stamp (for example, files with gridded precipitation frequency estimates). All location-specific output from the PFDS is stamped with the version number and date of download.

Table 2.1 lists the version history associated with the NOAA Atlas 14 Volume 12 precipitation frequency project and indicates the nature of changes made.

Table 2.1. Version history of NOAA Atlas 14 Volume 12

Version	Release Date	Notes
Version 1	October 2023	Draft data used in peer review
Version 2	September 2024	Final data released

3. Introduction

3.1. Objective

NOAA Atlas 14 Volume 12 provides precipitation frequency estimates for durations of 5-minute through 60-day at average recurrence intervals of 1-year through 1,000-year for the states of Montana, Idaho and Wyoming. The estimates and associated upper and lower bounds of the 90% confidence interval are provided at 30-arc second resolution. The Atlas also includes information on temporal distributions for heavy precipitation amounts for selected durations and seasonal information for annual maxima data used in the frequency analysis. In addition, the potential effects of climate change as trends in historic annual maximum series are examined.

The precipitation frequency estimates in NOAA Atlas 14 Volume 12 supersede the estimates published in the following publications:

- a. [*Short Duration Rainfall Relations for the Western United States*](#), Preprint Volume of the Conference on Climate and Water Management, American Meteorological Society (Arnell et al., 1986) for 5-minute to 60-minute durations;
- b. [*NOAA Atlas 2 Volume 1, Precipitation-Frequency Atlas of the Western United States, Montana*](#) (Miller et al., 1973) for 1-hour to 24-hour durations in Montana;
- c. [*NOAA Atlas 2 Volume 2, Precipitation-Frequency Atlas of the Western United States, Wyoming*](#) (Miller et al., 1973) for 1-hour to 24-hour durations in Wyoming;
- d. [*NOAA Atlas 2 Volume 5, Precipitation-Frequency Atlas of the Western United States, Idaho*](#) (Miller et al., 1973) for 1-hour to 24-hour durations in Idaho;
- e. [*Weather Bureau Technical Paper No. 49, Two- to Ten-Day Precipitation for Return Periods of 2 to 100 Years in the Contiguous United States*](#) (Miller, 1964) for 2-day to 10-day durations.

3.2. Approach and deliverables

Precipitation frequency estimates have been computed for a range of frequencies and durations using a regional frequency analysis approach based on L-moment statistics calculated from annual maximum series. This section provides an overview of the approach; greater detail is provided in Section 4.

The annual maximum series (AMS) were extracted for a range of durations between 15-minute and 60-day from precipitation measurements recorded at variable or constant time increments, from 1-minute to 1-day, obtained from various sources. The tables in Appendix A.1 give detailed information on all stations whose data were used in the frequency analysis. The annual maximum series data were screened for data quality. The 1-day and 1-hour annual maximum series data were also analyzed for potential trends (Appendix A.2).

A region of influence approach was used for the regional L-moments computation at each station across all selected durations. A variety of probability distribution functions were examined for each region and duration and the most suitable distribution was selected. Distribution parameters, and consequently precipitation frequency estimates, were determined based on the mean of the annual maximum series at the station and the regionally determined higher order L-moments. Precipitation frequency estimates were smoothed across durations to ensure consistency. Partial duration series-based precipitation frequency estimates were calculated indirectly from AMS-based precipitation frequency estimates using Langbein's formula.

For areas where snowfall contributes to the precipitation AMS, empirical equations may be developed to produce frequency estimates for rainfall (i.e., liquid precipitation only) from corresponding precipitation frequency estimates. In the NOAA Atlas 14 Volume 12 project area, the contribution of snowfall to AMS

is non trivial due to geo-climatic conditions, therefore a separate rainfall frequency analysis was developed for selected durations up to 24-hours.

A Monte-Carlo simulation approach was used to produce upper and lower bounds of the 90% confidence interval for the precipitation frequency estimates. Confidence limits below 60-minute durations were produced using scaling factors (see Section 4.8.2 - Estimates for 5-minute through 30-minute durations). Grids of precipitation frequency estimates were determined based on grids of mean annual maxima and at-station precipitation frequency estimates. The mean annual maxima grid for each duration was derived from at-station mean annual maxima using PRISM interpolation methodology (Appendix A.3). The grids of precipitation frequency estimates for all frequencies were then derived in an iterative process using the inherently strong linear relationship that exists between mean annual maxima and precipitation frequency estimates at the 2-year average recurrence interval and between precipitation frequency estimates at consecutive frequencies for a given duration (Section 4.8.2). The resulting grids were examined and adjusted in cases where inconsistencies occurred between durations and frequencies. Both spatially interpolated and point estimates for selected durations and frequencies were subject to external peer review (Appendix A.4). A similar approach was used to derive grids of lower and upper bounds of the 90% confidence interval.

Climate regions were delineated based on characteristics of annual maximum data. The regions were used in the extraction and seasonality analysis of annual maxima and calculations of temporal distributions of heavy precipitation. Temporal distributions, expressed in probability terms as cumulative percentages of precipitation totals, were computed for precipitation magnitudes exceeding precipitation frequency estimates for the 2-year average recurrence interval for selected durations (Appendix A.5). The seasonality analysis was done by tabulating the number of annual maxima exceeding precipitation frequency estimates for several selected threshold frequencies (Appendix A.6).

NOAA Atlas 14 Volume 12 precipitation frequency estimates for any location in the project area are available in a variety of formats through the [PFDS](#) via a point-and-click interface; more details are provided in Section 5. Additional results and information available include:

- ASCII grids of partial duration series-based and annual maximum series-based precipitation frequency estimates and related confidence limits for a range of durations and frequencies with associated metadata;
- cartographic maps of partial duration series-based precipitation frequency estimates for selected frequencies and durations;
- final, quality controlled annual maximum series for all observing locations used in the analysis;
- temporal distributions;
- seasonality analysis of annual maxima.

Cartographic maps were created to serve as visual aids and are not recommended for estimating precipitation frequency estimates. Users are advised to take advantage of the PFDS interface or the downloadable underlying ASCII grids for obtaining precipitation frequency estimates.

Please notice that precipitation frequency estimates from this Atlas are estimates for a point location and are not directly applicable for an area. Also, precipitation frequency estimates for each volume of NOAA Atlas 14 were computed independently using all available data at the time. Some discrepancies between volumes at project boundaries are inevitable and they will generally be more pronounced for rarer frequencies.

4. Frequency Analysis

4.1. Project Area

The project area includes the interior northwestern states of Idaho, Montana, and Wyoming (Figure 4.1.1), which are the 14th, 4th, and 10th largest states in the U.S. by land area respectively. These three states encompass a large portion of the Rocky Mountains in the United States. The continental divide runs through this project area separating watersheds that drain into the Pacific, Atlantic and Arctic Oceans. Only eastern Montana and eastern Wyoming lie outside the Rockies in the high elevation prairie known as the northern Great Plains.

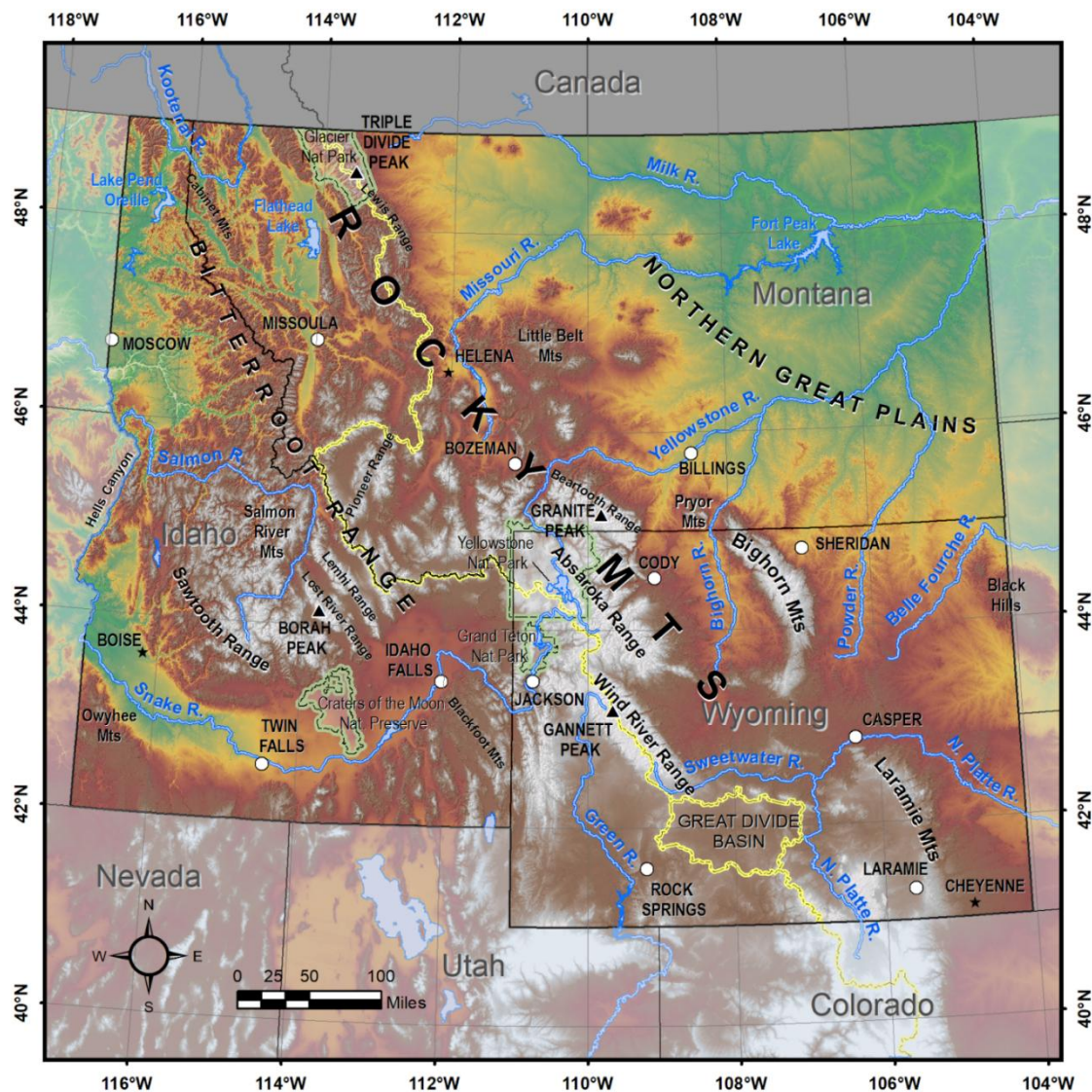


Figure 4.1.1. Project area for NOAA Atlas 14 Volume 12 (shaded relief was obtained from [EPA/USGS NHDplusV2](https://nhdplus2.epa.gov/))

A majority of Idaho resides in the northern U.S. Rocky Mountains. The Bitterroot Range that runs along Idaho's border with Montana is one of the longest continuous mountain ranges in the Rockies. The state has 9 mountain peaks above 12,000 ft including the highest, Borah peak in the Lost River Range, at 12,662 ft. Idaho's lowest point is 710 ft and occurs at the confluence of the Snake and Clearwater Rivers in Lewiston on the state's western border. Just upstream on the Snake River to the south is the deepest river gorge in the U.S. known as Hells Canyon. Continuing farther to the south upstream, the Snake River opens up to a large plain running east to west where a majority of the state's population resides in the cities of Boise, Twin Falls and Idaho Falls. Other major rivers in Idaho include the Kootenai in the north and the Salmon in the central mountains.

The elevation in Montana ranges widely from 1,804 ft above sea level at the Kootenai River along the Idaho Border to over 12,000 ft in the Beartooth Mountains. Only Montana's western half is dominated by the northern U.S. Rocky Mountains. In the southwestern portion of the state there are several mountain ranges including the largest continuous land mass above 10,000 ft in the continental U.S. known as the Beartooth Plateau. Also in the Beartooth Mountains is Granite Peak, the highest point in Montana at 12,807 ft. The Triple Divide Peak, located in the Lewis Range near Glacier National Park, is the major hydrologic apex of the United States, separating the water basins that drain into the Pacific, Atlantic, and Arctic Oceans. As you move east past the last mountains of the Rocky Mountain Front you come to the prairie land of the northern Great Plains that covers about 60% of the state. Major rivers that flow across the state include the Milk, Missouri, and Yellowstone rivers.

Wyoming is the least populous state and is second only to Alaska in lowest population density. Geographically the state is a great plateau broken up by several mountain ranges including the Bighorns, Wind River, Teton, and Snowy Ranges to name a few. Elevations range from 3,125 ft at the northeast corner along the Belle Fourche River Valley to Gannett Peak in the Wind River Range at 13,810 ft. The famous Grand Teton comes in a close second at 13,775 ft. The Wind River Range contains over 40 mountain peaks above 13,000 ft. The Great Divide Basin located in the Red Desert in the south-central portion of the state is a unique geographic area known as an endorheic basin where water does not drain to any ocean. Several large rivers initiate or transverse the state including the Belle Fourche, Bighorn, Green, N. Platte, Powder, Snake, and Sweetwater Rivers.

Climatology of extreme precipitation. The precipitation climatology of the interior northwest (INW) is dominated by semi-arid and continental climates. Due to its high elevation and distance from the coast, this landlocked region is drier and windier than most of the U.S., with large temperature extremes between summer and winter. The westerly dry Föhn wind can also bring rapid warming in valley regions on the lee side of the mountains due to adiabatic warming. Despite the distance from the coast, Idaho and western Montana can still experience some Pacific maritime influence especially in the winter when clouds and precipitation are at a maximum. Strong low-pressure systems and atmospheric rivers of high-water vapor from the Pacific can bring significant rainfall inland over the mountains on occasion. In the Great Plains portion of the project area, the maritime influence is least prominent and precipitation patterns tend to be wetter in the summer and drier in the winter. Monsoonal energy from the Gulf of California and the Gulf of Mexico can sometimes surge into Montana and Wyoming during the summer months.

Mean annual precipitation (MAP) within the project area, developed by the [Oregon State University PRISM Group](#) (PRISM Climate Group, 2024) and shown in Figure 4.1.2, varies with elevation. MAP amounts, as low as 6-10 inches, can be found in the Great Divide Basin and Snake River Valley in western Wyoming and southern Idaho, respectively. MAP increases in many of the mountain ranges with up to 100-130 inches occurring in the Lewis Range of Montana due primarily to snowfall. To the east, in the Great Plains of Montana and Wyoming, MAP is between 10–20 inches.

When looking at precipitation extremes, at shorter hourly durations much of the rainfall occurs during the warmer summer months for the entire project area. When shifting to daily durations, two fairly distinct

extreme precipitation climate regions emerge. At higher elevations in the Rocky Mountains, longer duration precipitation extremes occur throughout the year and can include large snowfall events. As you move east, away from the mountains and into the Great Plains, daily precipitation extremes typically occur between late spring and early fall.

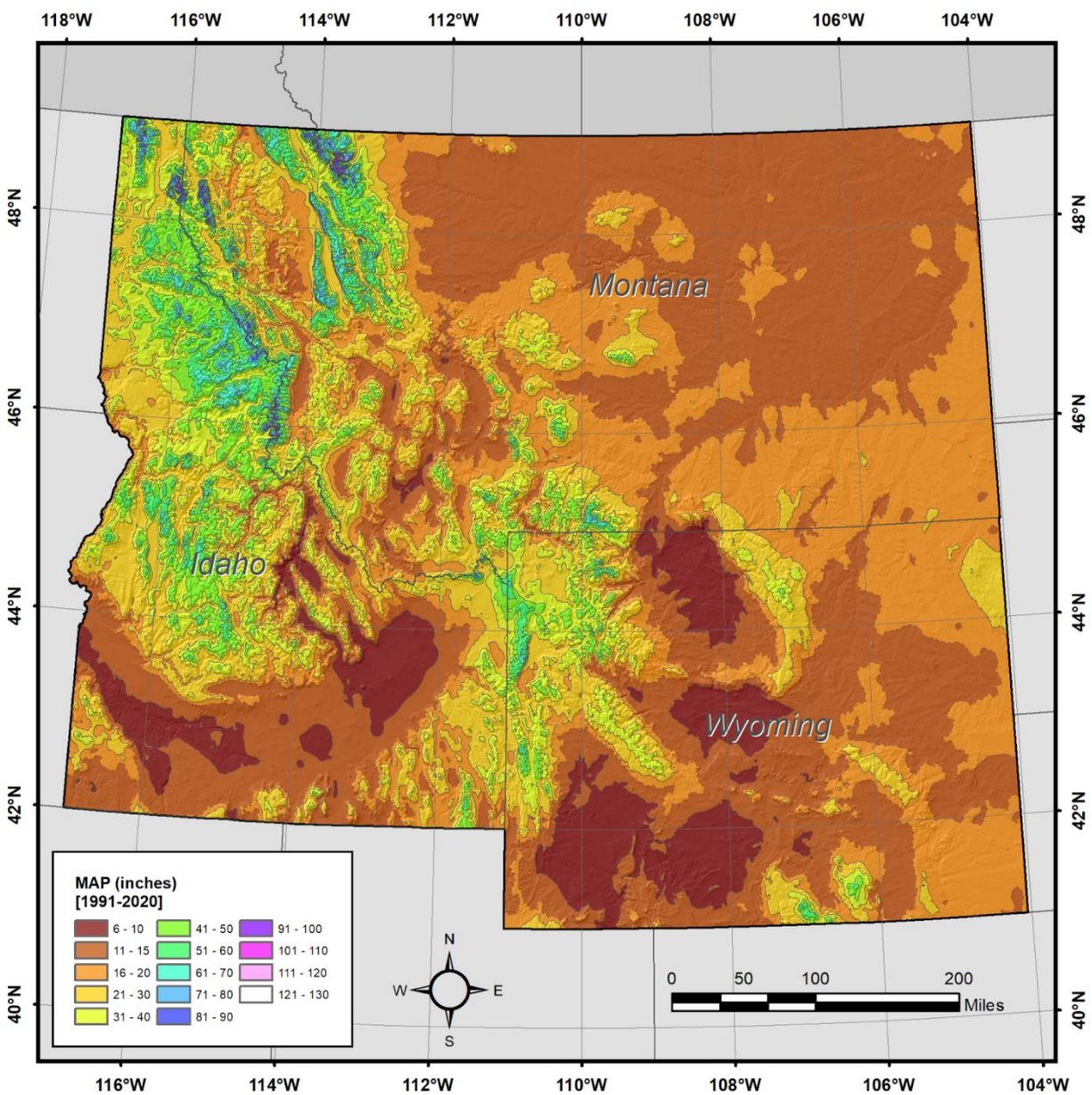


Figure 4.1.2. PRISM Mean Annual Precipitation in inches from 1991-2020.

NOAA Atlas 14 Volume 12 climate regions. Based on the climatology of extreme precipitation and the seasonality analysis of annual maxima (Appendix A.6), two climate regions, shown in Figure 4.1.3, were delineated to assist in the extraction of the annual maximum series data (Section 4.3) and in portraying the

temporal distributions of extreme events (Appendix A.5). Climate regions were attuned to make them consistent with climate regions from NOAA Atlas 14 Volumes 1 and 8.



Figure 4.1.3. Climate regions delineated for NOAA Atlas 14 Volume 12.

4.2. Precipitation data collection and formatting

Precipitation measurements were obtained for 15,328 stations from a number of federal, state, and local agencies. The majority of the stations were from the NWS Cooperative Observer Program (COOP) database maintained by the National Centers for Environmental Information (NCEI). In order to have a uniform system of numbering, each station was assigned a unique six-digit identification number (SID). Except for NCEI stations, assigned identification numbers do not match identification numbers assigned by agencies that collected or provided the data. Table 4.2.1 lists all agencies that provided the data (not necessarily agencies that collected the data) along with the datasets' names, their abbreviations used in

Appendix A.1, and the first two digits of the stations' identification numbers that are common for all stations from the same dataset.

Table 4.2.1. List of agencies, datasets with their abbreviated names used in Appendix A.1, data reporting intervals, and common SID's digits.

Agency/network	Dataset	Abbr.	Reporting interval	Common SID's digits
National Centers for Environmental Information	DSI-3240	NCEI	1-hour	05 ⁽¹⁾ , 10 ⁽¹⁾ , 24 ⁽¹⁾ , 25 ⁽¹⁾ , 26 ⁽¹⁾ , 32 ⁽¹⁾ , 35 ⁽¹⁾ , 39 ⁽¹⁾ , 42 ⁽¹⁾ , 45 ⁽¹⁾ , 48 ⁽¹⁾
	DSI-3260		15-min	05 ⁽¹⁾ , 10 ⁽¹⁾ , 24 ⁽¹⁾ , 25 ⁽¹⁾ , 26 ⁽¹⁾ , 32 ⁽¹⁾ , 35 ⁽¹⁾ , 39 ⁽¹⁾ , 42 ⁽¹⁾ , 45 ⁽¹⁾ , 48 ⁽¹⁾
	Global Historical Climatological Network (GHCN) Daily		1-day	05 ⁽¹⁾ , 10 ⁽¹⁾ , 24 ⁽¹⁾ , 25 ⁽¹⁾ , 26 ⁽¹⁾ , 32 ⁽¹⁾ , 35 ⁽¹⁾ , 39 ⁽¹⁾ , 42 ⁽¹⁾ , 45 ⁽¹⁾ , 48 ⁽¹⁾
	Automated Surface Observing System		1-min	78
	Integrated Surface Data – Lite		1-hour	64
	Corrected data/ Digitized		1-day	97, 99 ⁽²⁾
	Local Climatological Data		1-hour	55
	Environmental Canada		1-hour	71
	United States CoCoRaHS		1-day	69
	Canada CoCoRaHS		1-day	70
	Snow Telemetry		1-day	80
	Weather Bureau Army Navy		1-day	79
	U.S. Climate Reference Network		15-min	57
	Hourly Precipitation Data v1.0 and v2.0 Beta		1-hour	53, 54
Ada County Highway District	Precipitation Gauge Network	ADA	1-hour	74 ⁽³⁾
Boise State University	Dry Creek Experimental Watershed	DCEW	1-hour	65
Environment and Climate Change Canada	Historical Climate Data Network	EC	1-hour	60
High Plains Regional Climate Center	Automated Weather Data Network	AWDN	1-hour	62
Idaho National Laboratory	Air Resources Laboratory Mesonet	INL	1-day	89
Illinois State Water Survey	National Atmospheric Deposition Program	NADP	1-day	61
Midwestern Regional Climate Center	CDMP 19 th Century Forts and Voluntary Observers Database	FORTS	1-hr	52
Northeast Regional Climate Center	TD3298 Summary of the Day Climate Record Book	XMACIS	1-day	98

Agency/network	Dataset	Abbr.	Reporting interval	Common SID's digits
Synoptic	University of Utah Mesowest	SYNOPTIC	1-hour	72
University of Montana	Montana Mesonet	MT MESO	1-day	63
University of Wyoming	Water Resources Data System	WACNET	1-hour 1-day	90
U.S. Bureau of Reclamation	AgriMet and HydroMet	USBR	15-min 1-hour 1-day	87
U.S. Dept. of Agriculture (USDA)	Coram Experimental Forest	CEF	1-day	73 ⁽³⁾
	Priest River Experimental Forest	PREF	1-day	66
	Remote Automated Weather Station Network	RAWS	1-hour	76
	Reynolds Creek Experimental Watershed	RCEW	1-hour 1-day	81
	Snowpack Telemetry Network	SNOTEL	1-hour 1-day	86
	Soil Climate Analysis Network	SCAN	1-hour 1-day	88

⁽¹⁾ SIDs by state: 05 - Colorado, 10 - Idaho, 24 - Montana, 25 - Nebraska, 26 - Nevada, 32 - North Dakota, 35 - Oregon, 39 - South Dakota, 42 - Utah, 45 - Washington, 48 - Wyoming.

⁽²⁾ NCEI's stations for which additional data were digitized using information from the Climate Database Modernization Program (CDMP) through the NCEI-developed Environmental Document Access and Display System, Version 2 (EV2) application.

⁽³⁾ Dataset not used in frequency analysis; not included in Appendix A.1.

In areas of high importance or scarce data, additional precipitation data were digitized to improve analysis by extending record lengths and/or including extreme events missing in digitized datasets. The additional digitized data were collected from the NCEI CDMP dataset and consist mainly of data from Climatological Data publications (daily), Climate Record Books (daily), and Original COOP observer forms (daily). Figure 4.2.1 shows locations of daily stations for which up to 53 additional years were digitized. In many cases, some of the highest extracted annual maxima came from the digitized periods. For example, the largest 1-day AMS value for the NCEI daily station Scobey (24-7424) came from the newly digitized data from 1938 to 1948. The 6.90 inches observed was one of the most significant events ever measured in northeast Montana and even exceeds the 1,000-year 24-hour estimate for this location. All stations for which additional data were digitized are listed in Table A.1.6 of Appendix A.1.

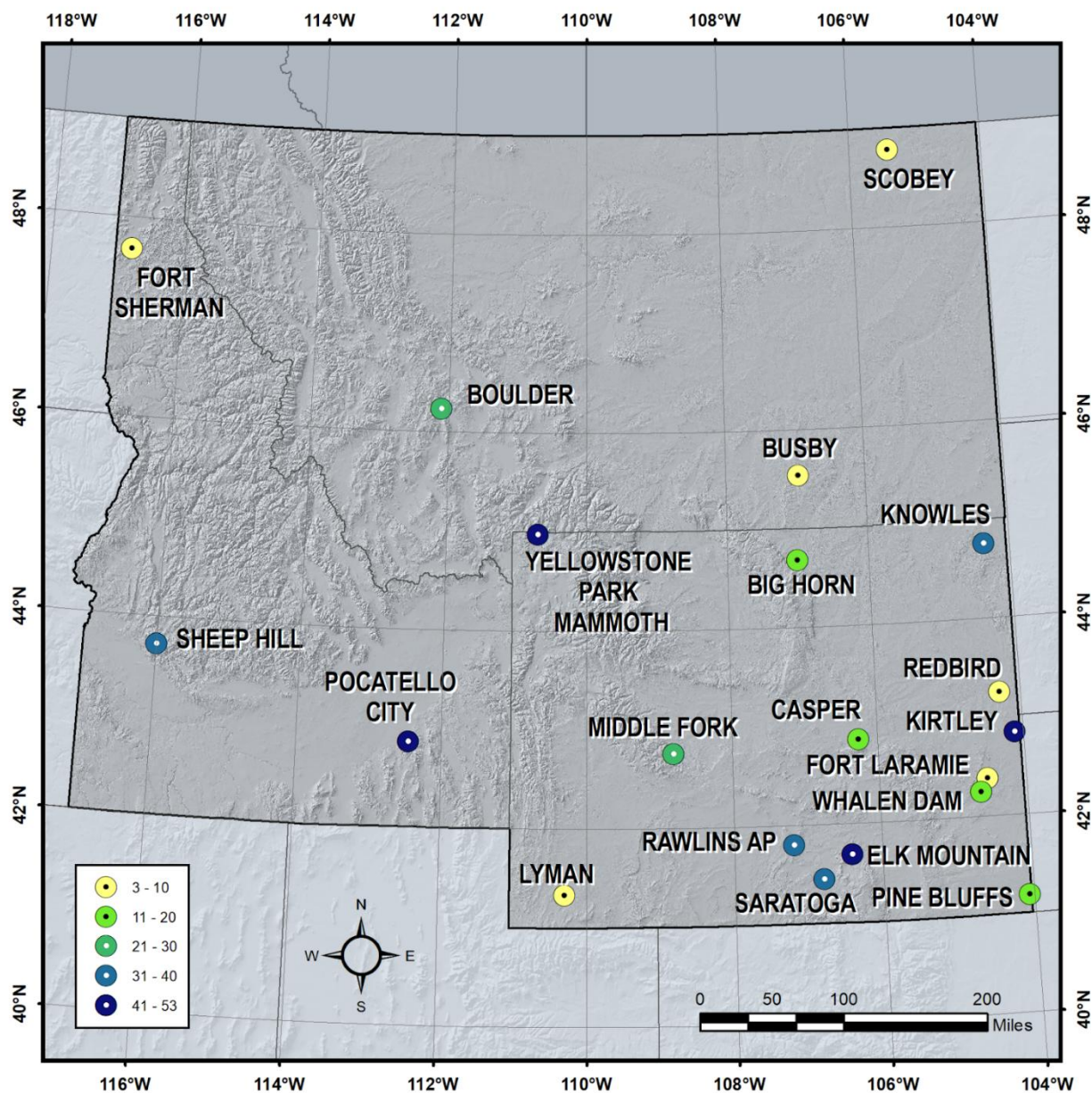


Figure 4.2.1. The locations of 21 stations where daily records were extended through digitization. Legend indicates the number of data years that were digitized. Casper had two stations that were digitized and combined.

All data were formatted to a common format at one of three base durations that corresponded to the original reporting period: 15-minute, 1-hour, or 1-day. Data recorded at variable time steps were formatted at 15-minute increments. Where available, records extended through December 2023. Table 4.2.2 lists the total number of stations that were obtained and formatted for each interval.

Table 4.2.2. The number of stations that were obtained per formatting interval.

Formatting interval	Abbr.	Number of stations
1-day	DLY	7,781
1-hour	HLY	6,685
15-minute	15M	862
TOTAL		15,328

In addition, 63 stations from the NWS and Federal Aviation Administration’s Automated Surface Observing System (ASOS) network (archived by NCEI) were used to develop scaling factors for generation of precipitation frequency estimate grids at 5-minute and 10-minute durations (Section 4.8.2). The 63 stations are also used at the 15-minute duration, which are accounted for in Table 4.2.2.

4.3. Annual maximum series extraction

The precipitation frequency analysis approach used in this project is based on analysis of annual maximum series (AMS) across a range of durations. AMS for each station were obtained by extracting the highest precipitation amount for a particular duration in each successive year. Based on the distribution of heavy precipitation events for this project area, a water year (October - September) was used rather than a standard calendar year so that a year begins and ends during a relatively dry season. Annual maximum (AM) data at stations were extracted for all durations equal to or longer than the base duration (or reporting interval) up to 60 days. AMS for the 1-day through 60-day durations were compiled from daily, hourly, and 15-minute records. To accomplish this, 15-minute and 1-hour data were first aggregated to constrained 1-day (hours 0 to 24) values before extracting 1-day and longer duration annual maxima. Hourly and 15-minute data were used to compile AMS for 1-hour through 12-hour durations, where 15-minute data were aggregated first to constrained 1-hour (0 to 60 minutes) values before extracting annual maximum value. 15-minute data were also used to compile AMS for 15-minute and 30-minute durations.

The procedure for developing an AMS from a precipitation dataset used similar criteria as in previous volumes that were designed to extract only reasonable maxima if a year was incomplete or had accumulated data. Accumulated data occur in some records where observations were not taken regularly, so recorded numbers represent accumulated amounts over extended periods of time. Since the precipitation distribution over the period is unknown, the total amount was distributed uniformly across the whole period. All annual maxima that resulted from accumulated data were flagged and screened to ensure that the incomplete data did not result in erroneously low maxima (Section 4.5.1).

The criteria for AMS extraction also exclude maxima if there were too many missing or accumulated data during the year and more specifically during critical months when precipitation maxima were most likely to occur (“wet season”). Wet seasons were resolved by assessing the periods in which two-thirds of AM occurred at each station and by inspecting histograms of annual maxima for the 1-day and 1-hour durations in a region. The final wet season months assisted in the determination of the climate regions depicted in Figure 4.1.3. The assigned wet season months for each region are shown in Table 4.3.1.

Table 4.3.1. Wet season months for each region for daily and sub-daily durations.

Region	Wet season months	
	Daily durations	Sub-daily durations
Northern U.S. Rockies (1)	October – September	April – September
Northern Great Plains (2)	March – September	May – September

The flowchart in Figure 4.3.1 depicts the AMS extraction criteria for all durations. Various thresholds for acceptable amounts of missing or accumulated data were applied to the year and wet season. The extracted maximum value of a given duration for a given year had to pass through all of the criteria in the flowchart to be accepted. Various codes were assigned to both accepted and rejected maxima based on the amount of missing and accumulated data in each year (see Figure 4.3.1) to assist in further quality control of AMS as described in Section 4.5.1.

For example, in a year with less than 20% of the measurements missing in the whole year and during the assigned wet season, if more than 66% of the measurements were accumulated, then the maxima for that year was (conditionally) rejected and assigned code 130. If the year had between 33% and 66% accumulated data, then it was further screened by assessing the lengths of the accumulation periods. If the lengths of the accumulation periods for more than 33% of the accumulated data were equal to or longer than threshold accumulation period lengths (D_{thresh}), then the maximum for that year was (conditionally) rejected (code 140). Threshold accumulation period lengths were defined as matching the selected duration for durations less than 2 days, as equal to half of duration period for durations between 2 days and 20 days, and as equal to 15 days for durations equal to or longer than 30 days. If the year had less than 33% accumulated data, the extracted maximum was passed to another set of criteria for accumulations during its wet season, etc.

If a rejected annual maximum was higher than 85% of the accepted maxima at that station, then it was kept in the series (code 30). Also, if a rejected 1-day annual maximum was higher than any accumulated amount in a year, then it was kept in the series and assigned code 40. Years in which a maximum was rejected were marked as missing in the series.

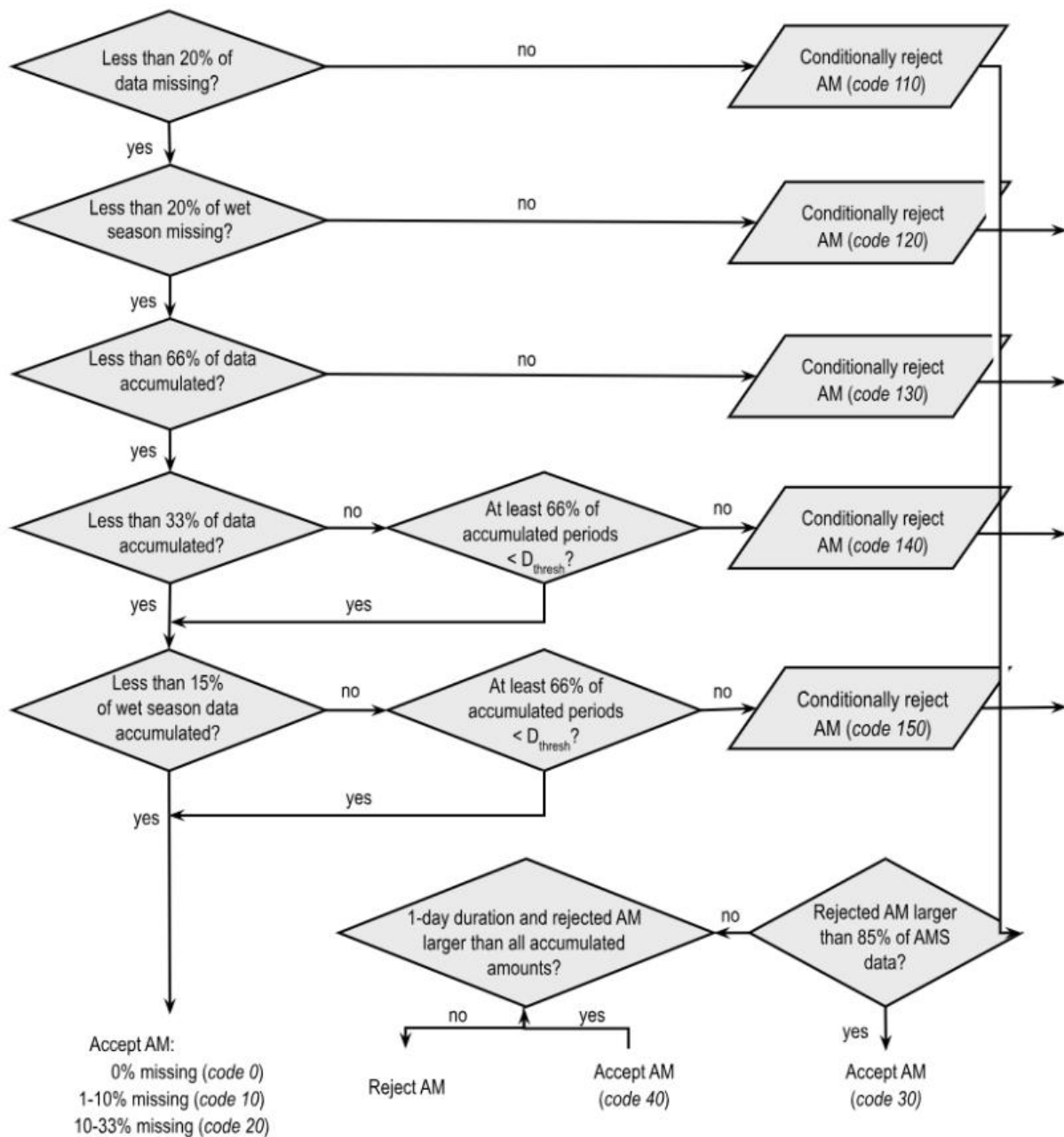


Figure 4.3.1. Criteria used to extract annual maxima. Data quality codes were assigned based on acceptance and rejection; D_{thresh} depends on duration.

4.4. Station screening

Station screening was done in the following order: a) examination of geospatial data, b) screening for duplicate records at co-located daily, hourly, and/or 15-minute stations and extending records using data from co-located stations, c) screening nearby stations for potentially merging records or removing shorter, less reliable records in station dense areas, and d) screening for sufficient number of years with usable data.

Geospatial data. Latitude, longitude, and elevation data for all stations were screened for errors. Several stations had to be relocated because they plotted in a different state or were clearly misplaced based on inspection of satellite images and maps. Misplacement was typically the result of no seconds recorded in latitude and longitude data. There were also several stations with no elevation data; for those stations, elevation was estimated from high-resolution digital elevation model (DEM) grids. Several corrections to metadata were also made based on input received during the peer review (see Appendix A.4).

Co-located stations. Co-located stations were defined as stations that have the same geospatial data but report precipitation amounts at different time intervals. The screening of co-located stations was done as follows:

- If co-located 15-minute and hourly stations provided data for the same period and there were no differences in AMS for constrained 1-hour maxima (15-minute data aggregated on the clock hour), only the 15-minute station was retained and used to extract AMS for all longer durations.
- If a 15-minute or hourly station provided data for the same period as a co-located daily station and there were no differences in AMS for constrained 1-day maxima (15-minute or 1-hour data aggregated from 0 to 24 hours), only the 15-minute or hourly station was retained and used to extract AMS for all longer durations.
- If periods of record at co-located stations were consistent but did not completely overlap, aggregated data from the station with the shorter reporting interval were used to extend the record of the station with the longer reporting interval.
- If the station with the longer reporting interval had a longer period of record, then it was retained in the dataset in addition to the co-located station with the shorter reporting interval.

AMS data consistency across durations was ensured in later quality control procedures (Section 4.5.4).

Nearby stations. Nearby stations were defined as stations located within three miles with consideration to elevation differences. However, in areas of flat terrain, stations up to four miles apart or farther may have been considered. The records of nearby stations were considered for merging to increase record lengths. In station-dense areas, some stations were removed from the analysis if a nearby station had a longer overlapping record, better quality data, or was highly correlated.

Record length. Record length was characterized by the number of years for which annual maxima could be extracted (i.e., data years) rather than the entire period of record. Daily stations were considered for frequency analysis if they had at least 30 data years, but allowances were made for isolated stations. A minimum of 20 data years was required for stations recording at sub-daily durations, with a few exceptions (for example, a station that caught an extreme event).

Figure 4.4.1 shows histograms for the number of AMS data years of stations retained for frequency analysis across daily, hourly, and sub-hourly durations after all the screenings were done. The average and median record lengths as well as corresponding ranges of record lengths are given in Table 4.4.1.

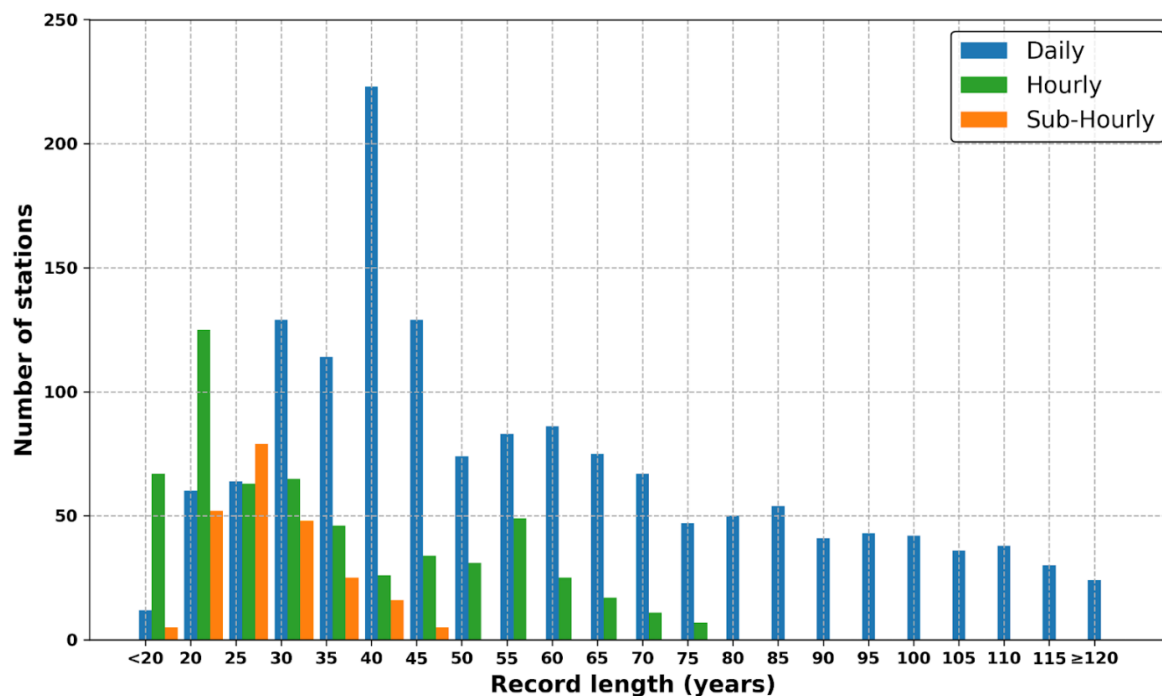


Figure 4.4.1. Number of stations available for precipitation frequency analysis across sub-hourly, hourly and daily durations.

Table 4.4.1. Record length statistics for stations used in frequency analysis for different durations.

Duration (D)	Number of stations	Record length (data years)		
		average	median	range
Daily (1-day ≤ D ≤ 60-day)	1,521	60	51	10 – 150
Hourly (1-hr ≤ D < 24-hr)	566	36	32	9 – 75
Sub-hourly (15-min ≤ D < 60-min)	230	29	28	12 – 47

Locations of stations recording precipitation data at 1-day intervals that were used in the frequency analysis are shown in Figure 4.4.2 and locations of stations recording at 1-hour and sub-hourly intervals, as well as n-minute stations, are shown in Figure 4.4.3. More detailed information on each station whose data were used to calculate precipitation frequency estimates is given in the following six tables in Appendix A.1.

Table A.1.1 shows INW locations for which precipitation frequency estimates were derived. The table shows each location's state (for consistency with table A.1.2), name, identification number (SID), latitude, longitude, elevation, and AMS record lengths (data years) across sub-hourly, hourly, and daily durations. It also lists SIDs for stations that contributed data to each location for sub-hourly, hourly, and/or daily durations.

Table A.1.2 shows similar information for stations in Colorado (CO), Nebraska (NE), Nevada (NV), North Dakota (ND), Oregon (OR), South Dakota (SD), Utah (UT), Washington (WA), and Canada provinces in Alberta (AB), British Columbia (BC), and Saskatchewan (SK).

Details on contributing stations' metadata are provided in Table A.1.3 for ID, MT, and WY stations and in Table A.1.4 for stations outside these states. The tables show each station's state, name, SID, shortest

formatting interval (see Table 4.2.2), latitude, longitude, elevation, dataset identifier (see Table 4.2.1), and the period of record. Similar information is shown in Table A.1.5 for stations used in derivation of n-minute scaling factors (see Section 4.6.3).

Finally, Table A.1.6 lists stations for which additional data were digitized (Section 4.2), showing each station's state, name, SID, formatting interval (Table 4.2.2), dataset identifier (Table 4.2.1), and the period(s) of record for which data were digitized.

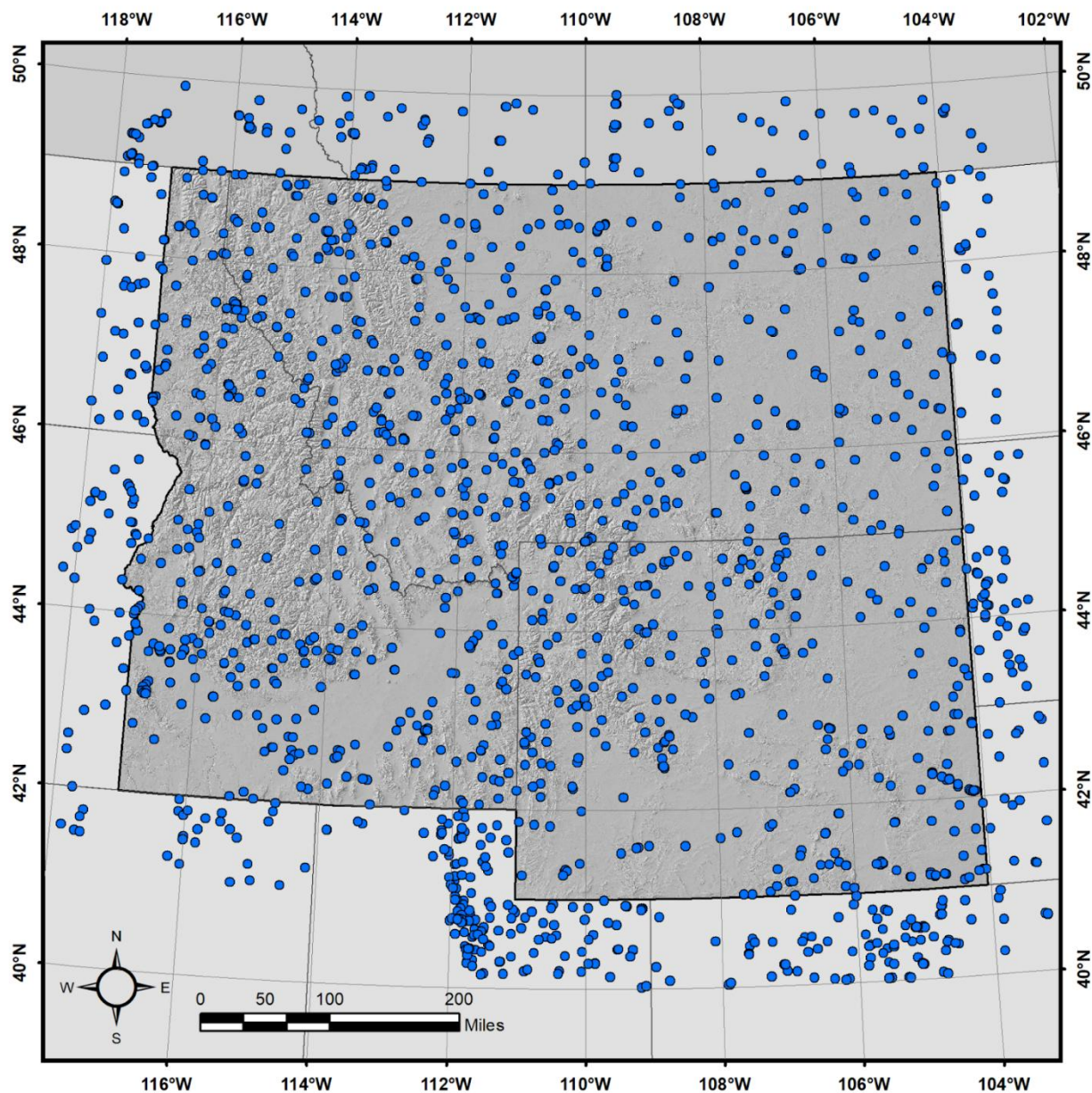


Figure 4.4.2. Map of stations recording at 1-day intervals used in frequency analysis.

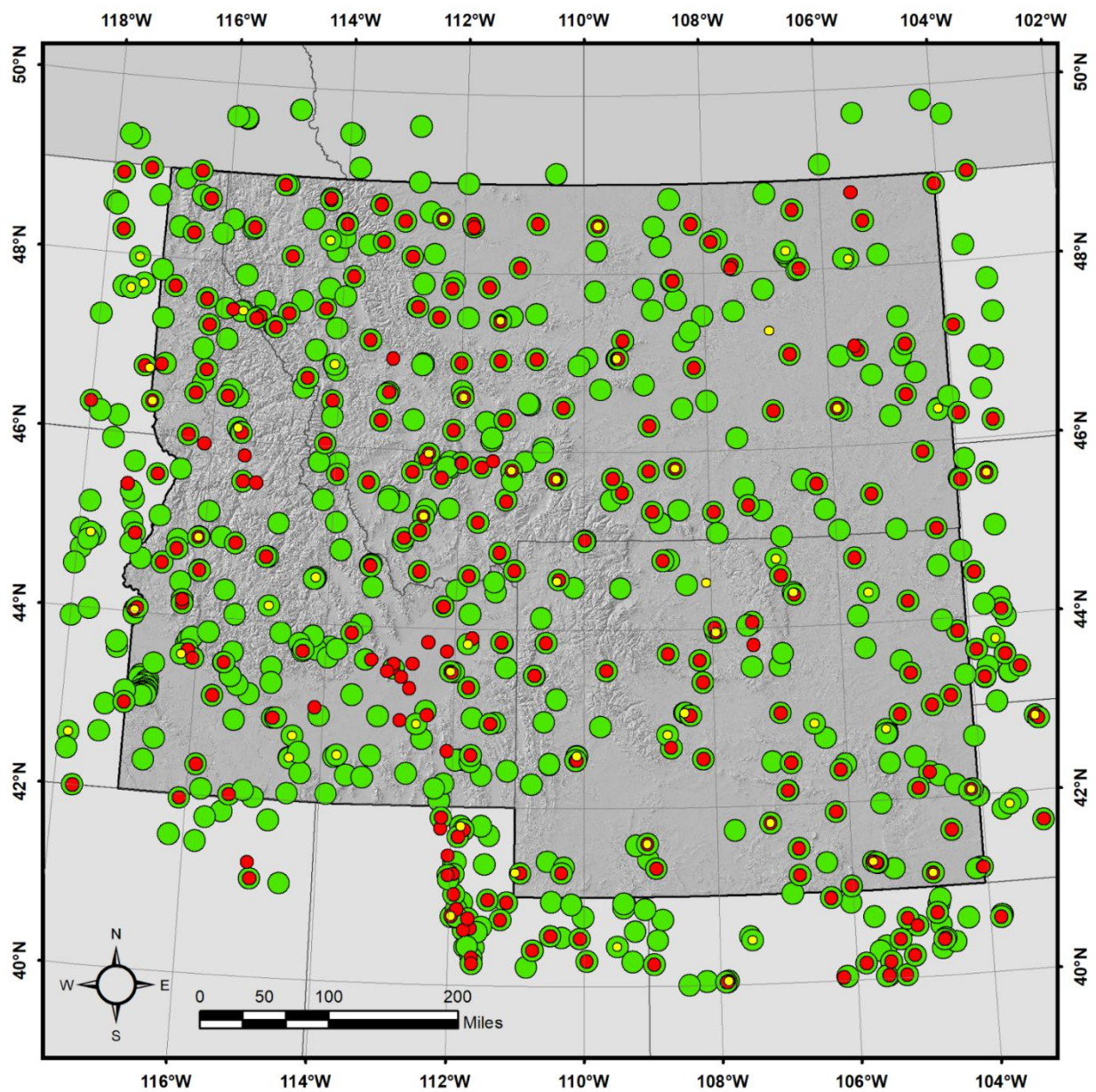


Figure 4.4.3. Map of stations recording at 1-hour (green circles) and 15-minute or variable intervals (red circles) used in the analysis; n-minute stations are shown as yellow circles.

4.5. AMS Screening and quality control

4.5.1. Outliers

For this project, outliers are defined as annual maxima which depart significantly from the trend of the corresponding remaining maxima. Since data at both high and low extremities can considerably affect precipitation frequency estimates, they have to be carefully investigated and either corrected or removed from the AMS if erroneous or due to measurement errors. The high and low outliers' thresholds from the Grubbs-Beck statistical test (Interagency Advisory Committee on Water Data, 1982) and the median $\pm$ two standard deviations thresholds were used to identify low and high outliers for all durations. Low outliers, which frequently came from years with missing and/or accumulated data, were typically removed from the annual maximum series. All values identified as high outliers were mapped with concurrent measurements at nearby stations. Questionable values that could not be confirmed were investigated further using climatological observation forms, radar data, monthly storm data reports and other historical weather event publications. Depending on the outcome of each investigation, values were either kept as is, corrected, or removed from the datasets.

An example of an outlier examination is shown in Figure 4.5.1. Statistical tests indicated that the 24-hour annual maximum amount of 3.42 inches recorded on 26 January 1984 at Blackfoot, Idaho (10-0915) was a high outlier. Investigation of the original observation form (COOP) for the month in question showed that the recorded value was erroneous, and was supported by the observations for nearby stations that reported very little to no precipitation. The original observation form indicated that the correct value was 0.34 inches and the monthly precipitation totaled only 0.65 inches. The Climatological data publication from Idaho for January 1984 confirms the 1-day value as 0.34 inches. This station also illustrates the large number of data quality issues seen in this project area, as the other two highest 1-day values (3.00 inches on 1 June 1999, 2.07 inches on 18 April 2000) are also both erroneous values that were disproved either from the original COOP form or the monthly climatological data publication.

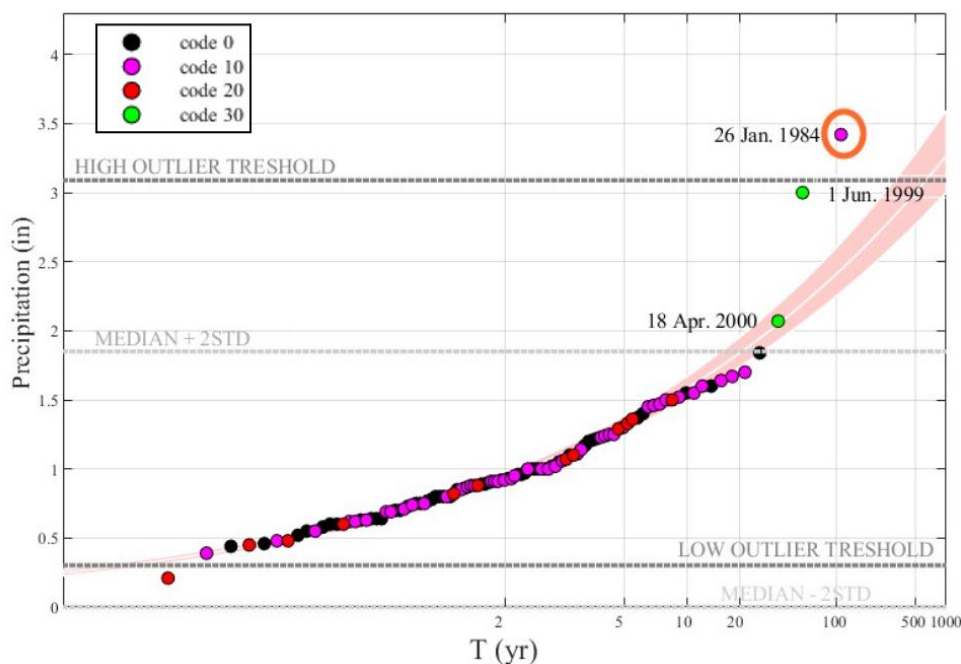


Figure 4.5.1. Outlier tests for 1-day AMS at Blackfoot, Idaho (10-0915). Data in purple, red and green indicate conditional AMS acceptance (quality code 10, 20 and 30, respectively) assigned to annual maxima during the extraction process (Section 4.3).

4.5.2. Missing significant events in records

Precipitation frequency estimates can be significantly affected by an incomplete data record, particularly if one of the highest observed amounts is missing, either because it occurred outside a station's operational period, or due to data that was never archived or digitized or was otherwise lost over time. Less commonly, the rainfall amounts were misread from the observation forms, errors occurred during digitization of the data, the gauge malfunctioned, or equipment was impacted during a flood so measurements couldn't be made.

Several significant events that were either missing, underestimated, or recorded erroneously in various stations' records were added, if they were well documented and/or recorded at nearby stations. Table 4.5.1 shows the most notable cases. For example, at Billings International Airport, MT, there is a long record length of both hourly and daily precipitation data. A large discrepancy was noted between the co-located stations on 8 June 1997, when the daily weather station measured a significant 1-day precipitation event of 2.91 inches, while the co-located hourly precipitation gauge at the airport measured significantly less and recorded only 0.68 inches for the day, of which 0.63 inches fell in six hours in the evening of the 8th. Further investigation revealed that the daily total was accurate as the event caused flooding throughout Billings and was supported by another Billings station (24-0802) which reported 3.00 inches on 9 June. Because the hourly gauge significantly under-reported the flooding event, the hourly annual maximum values for 1997 were unrealistically low relative to the high 1-day amount of 2.91 measured at the airport. After reviewing the ASOS-AWOS-METAR information available for the airport (KBIL) from [Iowa State Mesonet](#), the heavy precipitation event began approximately at 01:24 UTC on 9 June and ended by 6:56 UTC, lasting just under 6 hours. This is supported by the timing of the hourly precipitation measurements reported in the Local Climatological Data form for Billings, as well as the AP News article referenced in the table, which reported that 2-4 inches fell the evening of 8 June. As a result, it was estimated that of the 2.91 inches, 2.86 inches fell in six hours, which is the largest amount of precipitation measured in that timeframe in the record of this station dating back to 1 July 1948.

Table 4.5.1. List of the most significant events that were corrected or added to the stations' records.

Name (SID)	Date	Original	Updated	References
Billings Logan Intl AP (24-0807)	8 Jun 1997	0.63 in/6-hour	2.86 in/6-hour	a) 1997-06 Local Climatological Data form for Billings, MT ; b) Record-high flows predicted on Yellowstone near Billings, MT. (June 9, 1997). Retrieved from web.archive.org
Bloomfield 6 E (24-0926)	16 Jun 1944		2.63 in/1-hour 3.87 in/2-hour	NCEI's EV2 - Hydrological Bulletin ⁽¹⁾
Bloomfield 6 E (24-0926)	3 Aug 1945		2.05 in/1-hour 2.80 in/2-hour	NCEI's EV2 - Hydrological Bulletin ⁽¹⁾
Cody (48-1840)	25 Apr 1964	0.26 in/1-day	2.60 in/1-day	1964-04 Cooperative observation form for Cody, WY ⁽²⁾
Cody (48-1840)	17 May 2000	0.16 in/1-day	2.60 in/1-day	a) 2000-05 Cooperative observation form for Cody, WY ⁽³⁾ ; b) Park County Historical Floods ⁽³⁾
Dull Center (48-2725)	31 May 1927	-999	5.50 in/1-day	1927-05 Cooperative observation form for Dull Center, WY ⁽⁴⁾
Dupuyer (24-2571)	15–17 Jun 1948		9.10 in/48-hour	a) 1948 Climatological Data annual summary b) Montana Marias Basin Rainstorm (Dightman, 1950) ⁽⁵⁾

Name (SID)	Date	Original	Updated	References
Fort Laramie 11 NNW (48-3490)	27 Jun 1955	-999	5.00 in/1-day	a) 1955-06 Cooperative observation form for Fort Laramie 11 NNW, WY; b) <i>Summary of Floods in the United States during 1955</i> (Wells, 1962) ⁽⁶⁾
Iliad, MT (24-4368)	21 May 1948		1.59 in /1-hour	NCEI's EV2 - Hydrological Bulletin ⁽¹⁾
Lavina (24-4904)	4 Jun 1942		2.02 in/1-hour	NCEI's EV2 - Hydrological Bulletin ⁽¹⁾
Lavina (24-4904)	16 Jun 1948		1.61 in/1-hour	NCEI's EV2 - Hydrological Bulletin ⁽¹⁾
Lewistown Municipal AP (24-4983)	7 Aug 1900		2.50 in/1-hour	Fergus County Argus. Lewiston, MT. August 8, 1900. ⁽⁷⁾
Scobey (24-7424)	9 Jul 1946		6.90 in/1-day	CD publication of 1946-07 for Montana ⁽⁸⁾
Seminole Rsvr USBR (48-8074)	17 May 2000		3.09 in/1-day	2000-05 Cooperative observation form for Seminole Rsvr USBR, WY ⁽⁹⁾
Sheridan AP (48-8155)	22–23 Jul 1923		3.85 in/6-hour 4.41 in/24-hour	a) <i>Maximum Recorded United States Point Rainfall for 5 Minutes to 24 Hours at 296 First-Order Stations</i> (Jennings, 1963) b) NCEI's EV2 - Surface Weather Observation Forms (1001)
Torrington Municipal AP (55-0170)	12 Jun 2016	0	2.81 in/1-hour 3.70 in/2-hour	a) Station report for GHCNd 69-2343 ⁽¹⁰⁾ b) NCEI Storm Events Database report
Twin Falls 2 NNE (10-9294)	18 Sep 1948	-999	1.94 in/1-day 2.75 in/2-day	a) CD publication of 1948-09 for Idaho ⁽¹¹⁾ b) Times News. Twin Falls, ID. September 19, 1948.
Winnett 8 ESE (24-9052)	19 May 1948		2.00 in/1-hour 3.25 in/6-hour	NCEI's EV2 - Hydrological Bulletin ⁽¹⁾

⁽¹⁾ Select individual extreme events digitized from the Hydrologic Bulletin hourly precipitation dataset.

⁽²⁾ 2.6 written in the snow column is the correct daily precipitation amount. Confirmed as all-time daily precipitation total in Cody Enterprise, April 30, 1964.

⁽³⁾ Significant event of ~2.50 inches in 12 hours caused flooding. Cody Enterprise, May 17, 2000 confirms that 2.44 inches fell between 7 pm and 7 am on 16-17 May. Observer forgot to add 2.44 to 0.16, so the correct total is estimated as 2.60 on 17 May.

⁽⁴⁾ Event missing, added back single value from cooperative observer form.

⁽⁵⁾ Event documented in weather reports prior to the station becoming operational.

⁽⁶⁾ Estimated from Figure 29 on pg. 104, isohyetal map of June 26-27, 1955 flood

⁽⁷⁾ 2.53 inches noted to have in a little more than half an hour.

⁽⁸⁾ Significant event caught in digitized record (1938-1948) of Scobey from Climatological Data Publication for Montana

⁽⁹⁾ Entire month of May 2000 digitized from cooperative observer form

⁽¹⁰⁾ Power outage during significant flash flooding event. Event was added back from nearby CoCoRaHS station and estimated from radar and a nearby hourly station (88-2018) to have occurred in two hours, with most of the rain falling in one hour.

⁽¹¹⁾ Missing significant event added back from Climatological Data publication.

4.5.3. Corrections for constrained observations

Daily durations. The majority of AMS data used in this project came from daily stations at which readings were taken once per day (usually around 8 am local time, but this can vary over the course of a station's record and from station to station). Due to the fixed beginning and ending of observation times at daily stations, the true 24-hour (unconstrained) annual maximum could be up to 100 percent larger than the corresponding 1-day (constrained) value extracted from the daily records.

For extreme events, unconstrained 24-hour AM values were determined by inspection of information from nearby gauges, and by reviewing storm reports, storm data, and radar data. For some events, weather observers computed their own 24-hour rainfall totals or made special observations that made it possible to determine more accurate unconstrained values. For example, Casper 2 E, WY measured an extreme 2-day precipitation event of 5.03 inches on August 2 – 3, 1972, which caused flash flooding in the area, but there is a note on the observer form that during the heavy rain on August 2nd that 4.99 inches was received in just over an hour, from 5:55 – 7:05 pm. Because the observer measured at 6:15 pm on this day, the precipitation was split over 2 days when most of it fell in just about one hour. In this case, based on the observer's remarks and indication of when the rain occurred, 5.03 inches was accepted as the 24-hour AM value for 1972. Table 4.5.2 lists the most notable cases for which AM values were corrected. In these cases where more accurate unconstrained amounts can be determined, the values are then divided by the 1-day conversion factor in Table 4.5.3 to be consistent with all other constrained daily measurements.

Table 4.5.2. Examples of significant adjustments on 1-day AM values to account for fixed-clock observations. Bold font indicates 1-day AM values before correction.

Station name	SID	Date	1-day AM values (in) from digital records		24-hour AM value (in)
			Day 1	Day 2	
Albin	48-0080	31 Jul – 1 Aug 1985	2.00	1.57	3.47
Brandenberg	24-1084	6 – 7 Jun 2007	2.34	2.35	4.69
Cascade 5 S	24-1552	24 – 25 May 1953	2.08	1.87	3.40
Casper 2 E	48-1565	2 – 3 Aug 1972	2.20	2.83	5.03
Cheyenne	98-0002	15 – 16 Jul 1896	3.65	1.05	4.70
Fisher Creek	86-0480	18 – 19 Nov 1996	2.70	3.00	4.30
Helena	79-0105	4 – 5 Jun 1908	1.73	1.94	3.67
Mackay	10-5462	8 – 9 Jun 1944	1.36	1.00	2.26
Millegan 14 SE	24-5712	12 – 13 Jun 2013	2.09	2.09	4.05
Riverton	48-7760	27 – 28 Sep 1923	2.14	1.79	3.75
Sheridan	98-0004	22 – 23 Jul 1923	1.86	2.55	4.41
Stevensville	24-7894	30 – 31 Jul 1946	1.71	1.18	2.89
Yellowstone Park Mammoth	99-9905	14 – 15 Oct 1908	1.23	1.23	2.34

At all daily stations, correction factors were applied to AM to account for the likely failure of capturing the true unconstrained values. The correction factor for each daily duration was estimated by using the same pool of sub-daily data to calculate unconstrained (e.g. 24-hour) and constrained (e.g. 1-day 8am-8am) AM independently. Ratios of unconstrained / constrained (e.g. 24-hour / 1-hour) did not show statistical significance with respect to spatial distribution (latitude, longitude, elevation), nor average recurrence interval. For this reason, mean ratios per duration were used, which are given in Table 4.5.3.

Table 4.5.3. Correction factors applied to constrained AMS data across daily durations

Duration (days)	1	2	3	4	7	>7
Correction factor	1.17	1.06	1.04	1.03	1.02	1.00

Hourly durations. While significant underestimations due to constrained observations are commonly seen for daily stations, ‘clock-hour’ observations also affect hourly measurements at stations recording at 1-hour intervals. Data from stations recording at sub-hourly durations or from first-order hourly stations, which often report unconstrained amounts, were used to make corrections. For example, the maximum 1-hour value of 0.93 inches recorded at 6:00 pm local time on 11 June, 1958 at the Missoula International Airport hourly station was increased to 1.36 inches based on the corresponding 60-min value reported at the first-order hourly station (also in Jennings, 1963).

For other AM data extracted at hourly stations, the correction factors were developed using a similar process as the daily factors, except using sub-hourly station information. Correction factors applied to constrained AMS data across hourly durations are shown in Table 4.5.4.

Table 4.5.4. Correction factors applied to constrained AMS data across hourly durations.

Duration (hours)	1	2	3	6	12	>12
Correction factor	1.13	1.05	1.03	1.02	1.01	1.00

Sub-hourly durations. Because sub-hourly measurements are also constrained by a fixed beginning and end measurement, as a further enhancement, a similar adjustment was done for sub-hourly durations. The correction factors for sub-hourly AMS were using concurrent constrained and unconstrained annual maxima for each duration estimated from 1-min stations; they are shown in Table 4.5.5.

Table 4.5.5. Correction factors applied to constrained AMS data across sub-hourly durations.

Duration (minutes)	15	30	45	60	>60
Correction factor	1.14	1.04	1.02	1.01	1.00

4.5.4. Inconsistencies across durations

At co-located stations, it was not unusual that corresponding annual maxima differed for some years during their overlapping periods of record. Related 1-day maxima at co-located daily and hourly stations were compared, and each pair of significantly different estimates was investigated. Effort was made to identify the source of the error and to correct erroneous observations across all durations that were affected.

Annual maxima at each station were also compared across all durations in each year to ensure that every extracted amount for a longer duration was at least equal to the corresponding amount for the successive shorter duration. Inconsistencies of this type occurred at stations with a significant number of missing and/or accumulated data and resulted from different AMS extraction rules applied for different durations (Section 4.3), or from the correction for constrained observations (Section 4.5.3). In those cases, shorter duration annual maxima were used to replace annual maxima extracted for longer durations. Typically, adjustments of this type were small.

4.5.5. Trend analysis

The precipitation frequency analysis methods used in NOAA Atlas 14 are based on the assumption that the annual maximum series used in the analysis are stationary. Statistical tests for trends in AMS and the main findings for this project area are described in more detail in Appendix A.2. Briefly, the stationarity assumption was tested by applying a parametric *t*-test and non-parametric Mann-Kendall test for trends in means and Levene's test for trends in variance in the 1-day and 1-hour AMS data at the 5% significance level. For the 1-day duration, testing was done on stations with at least 70 years of data; for the 1-hour duration, the minimum number of data years was lowered to 40 to increase sample size. Overall, the *t*-test detected slightly more negative trends in the AMS than the Mann-Kendall test, but neither test detected trends in approximately 90% of the stations at both durations. Levene's test did not detect trends in variance in more than 90% of stations at both durations. Spatial maps did not reveal any spatial coherence in trend results.

Any trend in the relative magnitude of AMS values was also assessed for both climate regions delineated for this project (see Figure 4.1.3). AMS from all stations in each region were rescaled by corresponding mean values and then regressed against time. The regression results were tested against a null hypothesis of the slope coefficient being equal to zero (zero correlation between rescaled AMS and time). The null hypothesis of no trends in relative AMS data could not be rejected at 5% significance level for either region, except for the Northern Great Plains region at the 1-hour duration, where the relationship was statistically significant but very small.

4.6. Precipitation frequency estimates with confidence limits at stations

4.6.1. Overview of methodology and related terminology

Precipitation magnitude-frequency relationships at individual stations have been computed using a regional frequency analysis approach based on L-moment statistics. Frequency analyses were carried out on annual maximum series (AMS) for the following seventeen durations: 15-minute, 30-minute, 1-hour, 2-hour, 3-hour, 6-hour, 12-hour, 1-day, 2-day, 3-day, 4-day, 7-day, 10-day, 20-day, 30-day, 45-day, and 60-day. Frequency estimates based on partial duration series (PDS), which include all amounts for a specified duration at a given station above a predefined threshold regardless of year, were developed from AMS data using a formula that allows for conversion between AMS and PDS frequencies. Precipitation frequency estimates at 5-minute and 10-minute durations were derived from corresponding 15-minute estimates. To assess the uncertainty in estimates, 90% confidence intervals were constructed on both AMS and PDS frequency curves.

Frequency analysis involves fitting an assumed distribution function to the data. The following distribution functions were analyzed with the aim to identify a distribution that provides the best precipitation frequency estimates for the project area across all frequencies and durations: 3-parameter Generalized Extreme Value (GEV), Generalized Normal, Generalized Pareto, Generalized Logistic, and Pearson Type III distributions; 4-parameter Kappa distribution; and 5-parameter Wakeby distribution. When fitting a distribution to a precipitation annual maximum series extracted at a given location (and selected duration), the result is a frequency distribution relating precipitation magnitude to its annual exceedance probability (AEP). The inverse of the AEP is frequently referred to as the average recurrence interval (ARI), also known as return period. When used with the AMS-based frequency analysis, ARI does not represent the "true" average period between exceedances of a given precipitation magnitude, but the average period between years in which a given precipitation magnitude is exceeded at least once. Those two average periods can be considerably different for more frequent events. The "true" average recurrence interval (ARI) between exceedances of a particular magnitude can be obtained through frequency analysis of PDS.

Differences in magnitudes of corresponding frequency estimates (i.e., quantiles) from the two series are negligible for ARIs greater than about 15 years, but notable at smaller ARIs (especially for $ARI \leq 5$ years). Because the PDS can include more than one event in any particular year, the results from a PDS analysis are more reliable for designs based on frequent events (e.g., Laurenson, 1987). To avoid confusion, herein the term AEP is used with AMS frequency analysis and ARI with PDS frequency analysis. The term “frequency” is interchangeably used to specify the ARI and AEP.

L-moments (Hosking and Wallis, 1997) provide an alternative way of describing frequency distributions to traditional product moments (conventional moments) or the maximum likelihood approach. Since sample estimators of L-moments are linear combinations of ranked observations, they are less susceptible to the presence of outliers in the data than conventional moments and are well suited for the analysis of data that exhibit significant skewness. L-moments typically used to calculate parameters of various frequency distributions include 1st and 2nd order L-moments: L-location (λ_1) and L-scale (λ_2), and the following L-moment ratios: L-CV (τ), L-skewness (τ_3), and L-kurtosis (τ_4). L-CV, which stands for “coefficient of L-variation”, is calculated as the ratio of L-scale to L-location (λ_2 / λ_1). L-skewness and L-kurtosis represent ratios of the 3rd order (λ_3) and 4th order (λ_4) L-moments to the 2nd order (λ_2) L-moment, respectively, and thus are independent of scale.

One of the primary problems in precipitation frequency analysis is the need to provide estimates for average recurrence intervals that are significantly longer than available records. Regional approaches, which use data from stations that are expected to have similar frequency distributions, have been shown to yield more accurate estimates of extreme quantiles than approaches that use only data from a single station. The number of stations used to define a region should be large enough to smooth variability in at-station estimates, but also small enough that regional estimates still adequately represent local conditions. The region-of-influence approach (Burn, 1990) used in this volume defines regions such that each station has its own region with a potentially unique combination of nearby stations. Stations are selected based on the maximum allowable distance from the target station that is defined in a geographic space and in a space of selected statistical attribute variables. Like with other regionalization approaches, there is a level of subjectivity involved in the process, for example, in choosing attribute variables, selecting the maximum allowable distance as well as attributes’ weights and transformations for similarity distance algorithms. One of the advantages of the region-of-influence approach is that it results in a smooth transition in estimates across regional boundaries, which is relevant for the mapping of precipitation frequency estimates.

A frequency curve derived from sample data serves as an estimate of the population frequency curve. However, the true population values may differ from this estimate. Confidence intervals are used to express the uncertainty associated with this estimate, providing a range of values that are likely to contain the true population value based on the sample data. A specified confidence level (e.g., 90%) indicates the proportion of such intervals that would capture the true value if the sampling process were repeated multiple times. The bounds of the confidence interval are not necessarily equidistant from the sample estimate. The width of the confidence interval is influenced by factors such as sample size, data variability, the choice of model (e.g., GEV vs. GLO), and the estimation method (e.g., MLE vs. L-moments). To determine the bounds of the 90% confidence interval, a Monte Carlo simulation is employed, with detailed methodology provided in Section 4.6.5.

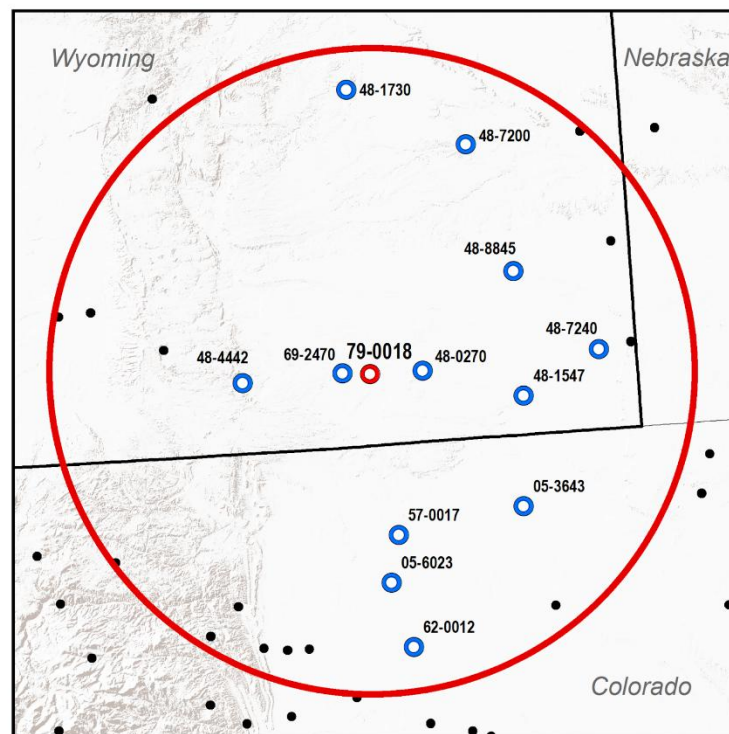
It should be noted that precipitation frequency estimates from NOAA Atlas 14 are point estimates and are not directly applicable to larger areas. The conversion of a point to an areal estimate is usually done by applying an appropriate areal reduction factor to the average of the point estimates within the subject area. Areal reduction factors are generally a function of the size of an area and the duration of the precipitation. The depth-area-duration curves from NOAA Atlas 2 (Miller et al., 1973) and Technical Report 24 (Meyers and Zehr, 1980) are the most current publications by NOAA.

Also, precipitation frequency estimates for each NOAA Atlas 14 volume were computed independently using all available data at the time. Some discrepancies between volumes at project boundaries are inevitable and they will generally be more pronounced for more rare frequencies.

4.6.2. Regionalization

For each station, an initial region was created by grouping up to the closest 15 stations (including the target station) within a 50-mile radius, prioritizing stations with the longest data record lengths and stations with hourly data. Those stations within a 50-mile radius that captured the highest observed 1-hour, 6-hour, 24-hour, 48-hour, or 10-day amounts were also automatically included in the initial region, regardless of their record length. Stations were then added to or removed from the region based on examination of their distance from a target station, inspection of their locations with respect to mountain ridges, elevation difference, difference in mean annual maxima, maximum recorded values and record lengths for selected durations, etc. (see an example in Figure 4.6.1) and assessment of similarities/dissimilarities in the progression of relevant L-moment statistics across durations compared with other stations in the region (see Figure 4.6.2). While highly dependent on station density, typical regions included between 12 and 20 stations with a cumulative number of data years between 600 and 1,300 for daily durations and 125 and 375 for hourly durations. However, in some areas of low station density, regions may have less than 10 stations, with a cumulative number of data years as low as 269 for daily durations and 42 for hourly durations.

Regional L-moments calculation. For a given duration, regional estimates of L-moment ratios (L-CV, L-skewness and L-kurtosis) were obtained by averaging corresponding station-specific estimates weighted by record lengths. Regional L-moment ratios were then used to estimate higher order L-moments at each station.



Index	SID	Distance (mi)	Elev (ft)	Elev diff (ft)	N 24hr	N 1hr	MAX 1hr (in)	MAX 6hr (in)	MAX 24h (in)	MAX 10d (in)
SELECTED STATIONS:										
1	79-0018	0	6,128	0	150	75	3.97	6.18	6.06	7.58
2	69-2470	4.08	6,195	67	30	0	-	-	3.57	6.92
3	48-0270	7.75	6,010	-118	85	0	-	-	3.85	6.61
4	48-4442	18.81	6,690	562	96	0	-	-	4.69	8.37
5	48-1547	22.78	5,437	-691	78	0	-	-	6.43	6.44
6	57-0017	23.98	5,390	-738	42	23	1.55	2.75	3.08	7.45
7	48-8845	25.92	5,616	-512	34	0	-	-	4.45	4.85
8	05-3643	29.74	5,090	-1,038	53	0	-	-	4.45	5.45
10	05-6023	30.76	5,196	-932	71	60	3.2	3.2	4.00	7.70
11	48-7240	33.81	5,180	-948	51	41	2.32	3.69	3.62	6.01
12	48-7200	36.55	4,982	-1,146	71	59	3.28	3.28	3.83	6.84
16	62-0012	40.56	4,885	-1,243	25	25	1.75	2.15	3.22	6.51
18	48-1730	41.93	5,304	-824	110	0	-	-	4.19	6.26
BACKUP STATIONS:										
9	86-1045	30.53	8,330	2,202	20	16	0.9	1.94	3.10	7.40
13	48-7235	38.62	5,074	-1,054	90	14	3.6	4.9	5.46	7.49
14	69-0634	39.23	5,354	-774	42	23	2.31	4.7	5.90	10.0
15	48-0080	40.47	5,345	-783	61	0	-	-	4.33	4.78
17	05-3006	41.37	4,920	-1,208	45	0	-	-	3.28	7.50
19	48-5411	42.05	7,175	1,047	139	0	-	-	4.39	4.50
20	05-3005	42.33	5,004	-1,124	128	63	2.8	5.41	6.18	8.84
21	62-0003	43.17	5,062	-1,066	32	23	3.44	5.88	9.25	13.17
22	05-0945	43.59	4,862	-1,266	62	0	-	-	3.93	5.11
23	05-1060	45.05	7,400	1,272	34	0	-	-	4.07	10.07
29	48-8808	51.57	6,086	-42	72	0	-	-	3.76	5.35
...										
Enter SID for station(s) you want to remove from “Selected stations” list:										
Enter SID for station(s) you want to add from “Backup stations” list:										

Figure 4.6.1. An example of a spatial plot with accompanying table used in an interactive process for adding or removing stations assigned to the Cheyenne (41-1007) station's region.

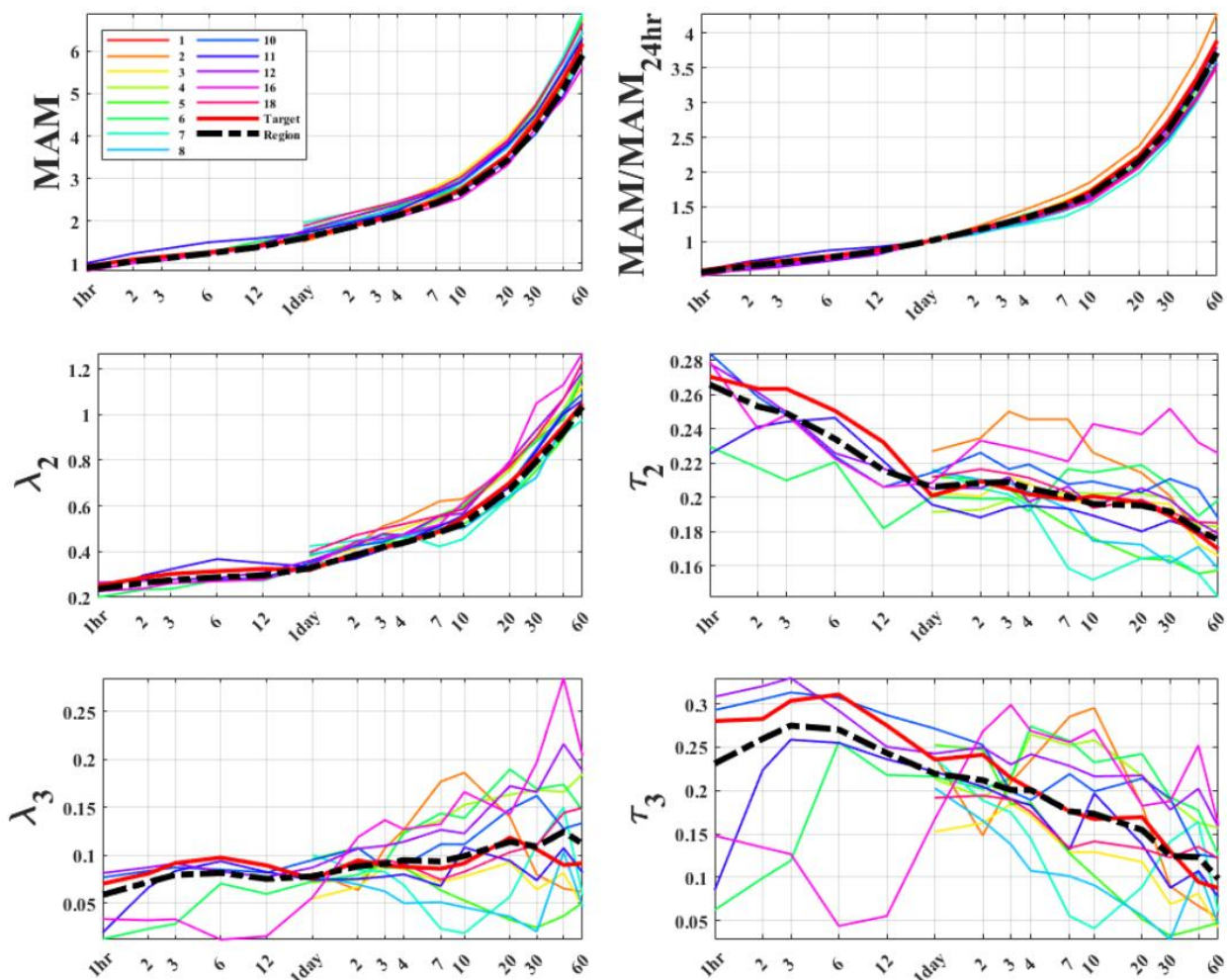


Figure 4.6.2. An example of plots of L-moments (left panels), MAM/MAM_{24-hr} and L-moment ratios (right panels) across hourly and daily durations for stations assigned to Cheyenne's region. Thick red lines show statistics for the target station, thin colored lines show statistics for other stations in the region, and thick dashed black lines show corresponding regional estimates.

Station dependence. Since stations were selected based on geographic proximity to a target station, it was likely that some of the extracted annual maxima at nearby stations came from the same storm events. Dependence in AMS data for stations within a region was analyzed using a *t*-test for the significance of a correlation coefficient at the 5% level. Analysis indicated that cross-correlation among stations was often statistically significant in areas with a dense network of rain gauges and that the number of dependent station pairs increased with duration length. The impact of station dependence was accounted for during the construction of confidence intervals on estimates where it could have substantial influence (see Section 4.6.5).

4.6.3. AMS-based estimates

Choice of distribution. A goodness-of-fit test based on L-moment statistics for 3-parameter distributions, as suggested by Hosking and Wallis (1997), was used to assess which of the five 3-parameter distributions listed in Section 4.6.1 provide acceptable fit to the AMS data. Results of χ^2 - and Kolmogorov-Smirnov tests and visual inspection of probability plots for all seven distributions for 1-

hour, 1-day, and 10-day durations, like the one shown in Figure 4.6.3, were considered during distribution selection.

Although it is not required to use the same type of distribution across all durations and/or regions, changes in distribution type for different durations or regions often lead to considerable discontinuities in frequency estimates across durations or between nearby locations, particularly at more rare frequencies. Based on the test results, the GEV distribution, which is generally recommended for analysis of extreme event, provided an acceptable fit to data more frequently than any other distribution. Accordingly, the GEV distribution was adopted across all stations and for all durations.

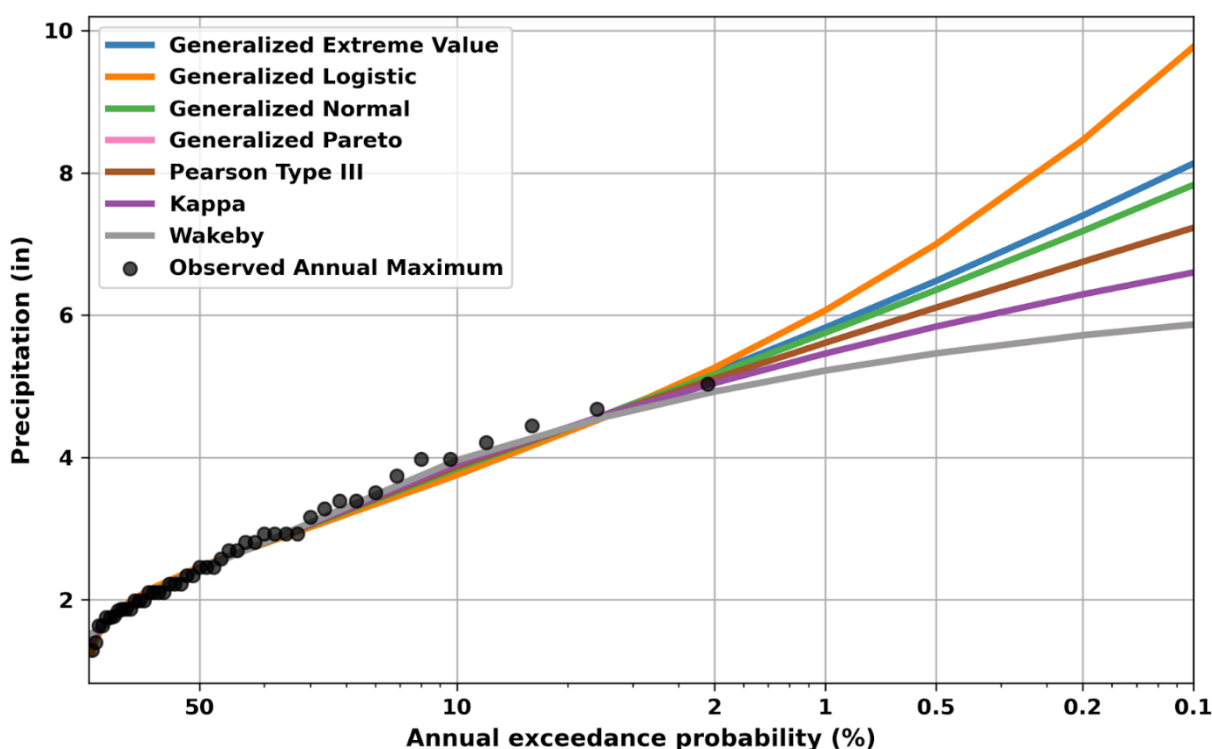


Figure 4.6.3. Probability plots for selected distributions for 1-day AMS at the Many Glacier, MT (86-0613) station.

Frequency estimates for hourly and daily durations. For each station and for each hourly and daily duration, L-moment statistics were used to calculate the parameters of the GEV distribution and to produce precipitation frequency estimates for the following annual exceedance probabilities (AEPs): 1/2 (50%), 1/5, 1/10, 1/25, 1/50, 1/100, 1/200, 1/500, and 1/1000. This calculation was repeated for all durations and for all stations. Since L-moments, and consequently, precipitation frequency estimates, were calculated independently for each duration, the resulting depth-duration-frequency (DDF) curves did not always look smooth. Smoothing of quantiles using PCHIP (Piecewise Cubic Hermite Interpolating Polynomial) function (Fritsch and Carlson, 1980) improved the shape of DDF curves. Figure 4.6.4 illustrates precipitation depth-duration-frequency curves before and after smoothing for Cheyenne, WY (79-0018).

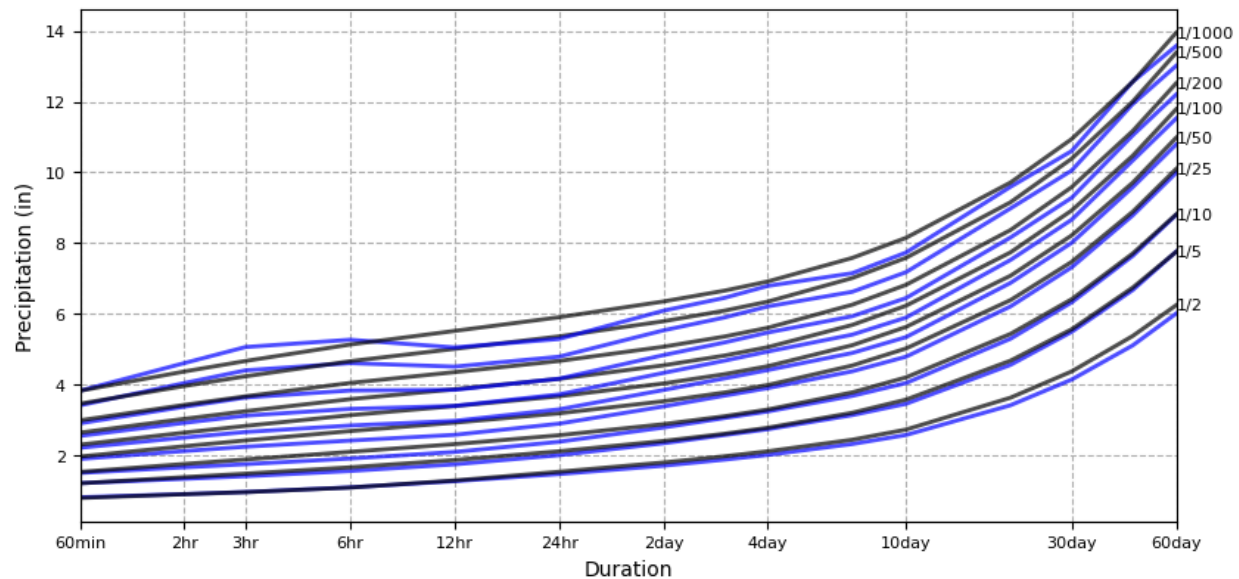


Figure 4.6.4. DDF curve for the Cheyenne, WY (79-0018) station. Blue lines represent original estimates; black lines represent smoothed estimates.

Frequency estimates for sub-hourly durations. The shortest duration at which AMS data were extracted was 15 minutes. Regional L-moment statistics were calculated for the 15-minute and 30-minute durations at stations that had 15-minute AMS data available for at least one station assigned to their region. L-moments were then used to produce precipitation frequency estimates in the same manner as for hourly and daily durations. However, in many cases, resulting precipitation frequency estimates were implausible, especially for AEPs of 1/100 (1%) or less. The primary cause of this was the sample size, as very few stations with measurements at sub-hourly durations were available, and when they were available, they typically had short periods of record. This resulted in unreliable moments (especially higher-order moments), and consequently, unreliable precipitation frequency estimates. λ_1 moments (i.e., mean annual maxima) were less sensitive to sample size and were generally in line with corresponding estimates at nearby stations. λ_1 moments were also, for the most part, consistent with the expected progression across hourly and daily durations (see top left panel of Figure 4.6.2). For that reason, at-station quantiles, which were assessed as unreliable, were not interpolated to create precipitation frequency grids; an alternative approach described in Section 4.8.2 was used for that purpose.

Similarly, for the 5-minute and 10-minute durations, very few n-minute stations were available to compute precipitation frequency estimates using regional L-moments or to develop MAM grids. Therefore, an alternative approach described in Section 4.8.2 was used to develop these estimates, as well.

4.6.4. PDS-based estimates

PDS-based precipitation frequency estimates were calculated indirectly from Langbein's formula (Langbein, 1949) which transforms a PDS-based average recurrence interval (ARI) to an annual exceedance probability (AEP):

$$\text{AEP} = 1 - \exp\left(-\frac{1}{\text{ARI}}\right)$$

PDS-based frequency estimates were calculated for the same durations as AMS-based estimates for 1-, 2-, 5-, 10-, 25-, 50-, 100-, 200-, 500-, and 1,000-year ARIs. Selected ARIs were first converted to AEPs

using the above formula and then precipitation frequency estimates were calculated for those AEPs following the same approach that was used in the AMS analysis.

4.6.5. Confidence limits

A Monte Carlo simulation procedure, similar to the methodology described in Hosking and Wallis (1997), is employed to construct 90% confidence intervals (i.e., 5% and 95% confidence limits) on both AMS-based and PDS-based precipitation frequency curves (see Section 4.6.1 for calculation of PDS-based precipitation frequency estimates). At each station, 1,000 simulated data sets per duration were used to generate precipitation quantiles, using the region L-moment algorithm (see Section 4.6.2 for spatial dependence analysis). Estimates were sorted from smallest to largest and the 50th value was selected as the lower confidence limit, while the 950th value was selected as the upper confidence limit. The region used for the simulation is designed to mirror the characteristics of the actual target station region, including the number of sites and the record length at each site. The L-moment ratios for individual sites within the simulated region are constructed by linearly varying the ratios across sites, with the mean value set to the regional average L-moment ratio and the range determined by the standard error. The simulation algorithm is designed to account for uncertainties such as sampling variability, model choice, and parameter uncertainty, but it does not include other sources of uncertainty, such as differences between model estimation methods (MLE vs. L-moments), that could significantly impact the total error, particularly at more rare frequencies.

For some stations, due to differences in record lengths across hourly and daily durations, confidence intervals for hourly durations were wider than corresponding intervals at daily durations; therefore, they were restricted by the corresponding values at 24-hour duration. Confidence limits for sub-hourly durations were calculated using similar approaches that were used to calculate frequency estimates at those durations. Since confidence limits were derived for each duration independently, like precipitation frequency estimates, they could fluctuate from duration to duration and were smoothed across durations using cubic spline functions.

4.7. Rainfall (liquid precipitation) frequency estimates

4.7.1. Background

Precipitation frequency estimates from Section 4.6 represent precipitation magnitudes regardless of the type (phase) of precipitation. For some applications it may be important to differentiate frequency estimates from liquid precipitation only (i.e. rainfall). For example, rainfall is treated differently from snowfall in watershed modeling because of different runoff producing mechanisms: while rainfall generates runoff almost immediately, snowfall generally goes into storage until it melts at a later date.

For high elevation areas in the Volume 12 project area, the contribution of snowfall to the annual precipitation is notable; however, high annual snowfall does not necessarily translate into a direct relationship to high snowfall AMS, especially for durations of 24-hour and less. To explore differences in total and liquid-only precipitation frequency estimates, concurrent rainfall and precipitation AMS were extracted at stations which had information useful for distinguishing the type of precipitation. Rainfall analysis was done for durations up to 24 hours, which are of the most interest to design projects relying on peak flows.

4.7.2. Extraction of rainfall data

For the rain-precipitation analysis at 24-hour duration, two main data sources, Global Historical Climatology Network daily (GHCNd), and Snow Telemetry (SNOTEL) Network, were considered, and

the concurrent daily precipitation and snowfall for each of these networks was calculated differently due to data availability.

For GHCNd, recorded snowfall amounts were first converted to snow water equivalent (SWE) using the 10 to 1 rule, which assumes the density of water is 10 times the density of snowfall. This ratio is on average higher (thus lower liquid equivalent) for many areas in the project area; however, historical observations of snowfall were often assumed to have a 10 to 1 ratio, and thus precipitation was recorded as 1/10th the actual snowfall observation (and no direct precipitation was melted/recorded) ([Baxter, et al 2005](#)). The rainfall was then calculated by subtracting the SWE from the precipitation. Values less than 0 are truncated to 0 rainfall. Warm season (i.e. May – September) precipitation is assumed to be rainfall. Some stations report “missing” snowfall during warm season months, which would cause too many missing periods for annual maximum rainfall to be sufficiently extracted, even though these warm months are likely mostly 0 snowfall (with some exceptions). Precipitation and rainfall-only time series for the GHCNd dataset remain after these steps.

For SNOTEL, recorded SWE on the ground and mean daily temperatures were used to estimate snowfall days within the time series. Positive changes in SWE were subtracted from the precipitation to create a rainfall time series. Rain on deep snowpacks can often cause SWE to rise during rainfall events for some time. An upper bound of 34°F for mean daily temperature was used to distinguish rain on deep snowpack, where the precipitation was assumed to be rainfall if the daily mean temperature was over 34°F. A value of 34°F was chosen for this threshold due to Critical Success Index (CSI) showing 34.5°F (1.4°C) threshold as the most skillful for estimating rain versus snow, and rounding down to the nearest integer value of 34°F to account for some uncertainty in accumulation potential.

While daily snowfall and ground SWE estimates were readily available for daily durations, there is a very limited quantity of sub-daily snowfall data available. Temperature measurements at hourly time steps co-located with precipitation data could be used to distinguish liquid from solid precipitation, but these data are only available for a very limited number of stations. Instead of observational data, modeled daily mean temperature data, available from the PRISM AN81d and AN91d at 4-km resolution (PRISM Climate Group, 2024), were used at station locations to aid in distinguishing rainfall from precipitation. Similar to the 24-hour SNOTEL analysis threshold, 34°F daily mean temperature is used to determine if the station’s precipitation is rain or snow. If the day’s mean temperature is 34°F or less, then all hours that day are considered snow.

There is a large uncertainty associated with extracting rainfall using only extreme time series data, particularly in high terrain areas, where the contribution of snowfall events can be significant. This uncertainty is associated with available data, data measurement errors, assumptions associated with 10 to 1 snowfall-to-liquid ratios, or ground SWE not being a 1:1 indicator of snowfall (e.g. blowing snow, rainfall on deep snowpacks, avalanches).

4.7.3. Rainfall frequency estimates

For rainfall frequency analysis, concurrent annual maxima from the precipitation and rainfall-only time series using at least 20 years of station data were used. At-station precipitation and rainfall frequency estimates were produced using L-moment statistics with a GEV distribution on each annual maximum series (e.g. the station in Figure 4.7.1). Ratios of rainfall/precipitation frequency estimates at various average recurrence intervals from 1-year to 1000-year were calculated at each station. Multiple linear regression of these ratios for each average recurrence interval, with various combinations of independent variables such as latitude, longitude and elevation were used to form a relationship. For more common return periods (e.g. 1-year) correlation was weak (adjusted $R^2 < 0.10$), though there was statistical significance with elevation (p value < 0.05), with increasing elevation correlating with decreasing rain/precipitation ratios. At rarer recurrence intervals there was no statistical significance, where rain/precipitation ratios approached 1.0.

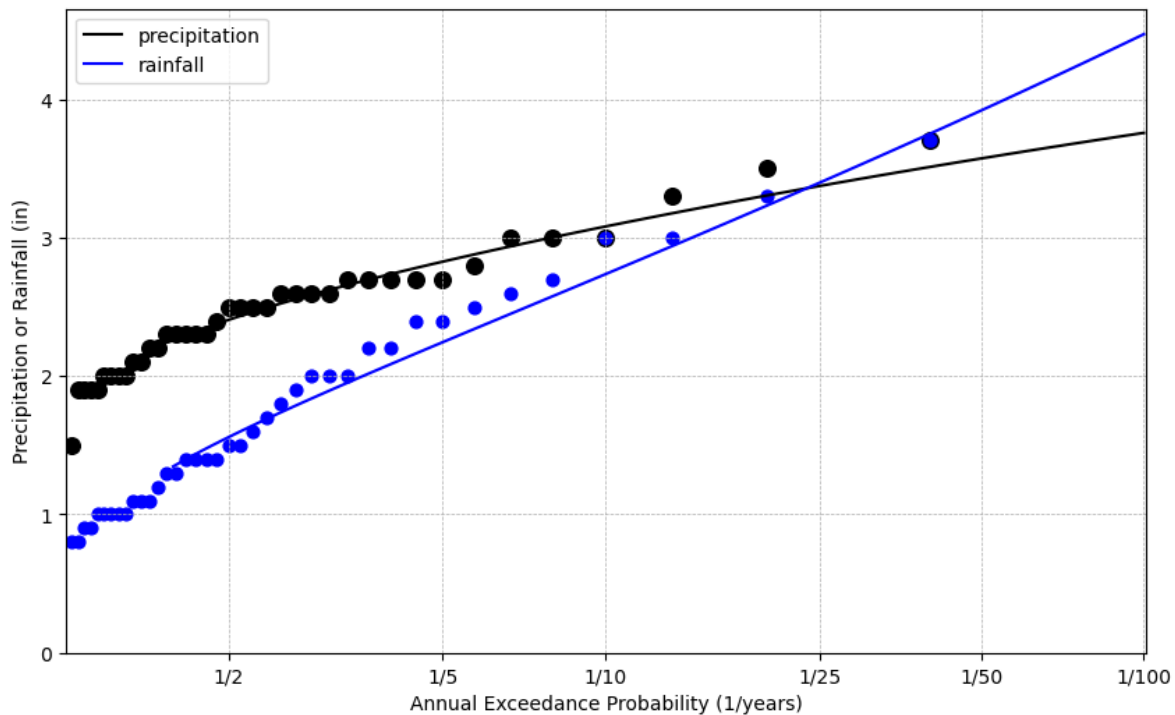


Figure 4.7.1: Precipitation (black) versus rainfall (blue) annual maxima, with GEV distributions fitted. Station is SNOTEL Site number 411 - Cool Creek at 1,914 meters. Precipitation and rainfall show differences at frequent AEPs, but converge at rarer AEPs.

To further investigate, the stations with both concurrent precipitation and rainfall-only time AMS were collected in 500-meter bins (Table 4.7.1). For each bin and recurrence interval, the mean rain/precipitation ratio was calculated (Table 4.7.2). The resulting “binned” ratios show a similar pattern as the multiple linear regression, where ratios are smaller for higher elevations and for more common average recurrence intervals. This is physically consistent with:

- Snowfall having a larger impact at higher elevations.
- Rainfall being more dominant at larger/rarer average recurrence intervals. These likely need higher precipitable water values, which are directly correlated with higher temperatures.

Table 4.7.1: Number of stations used for 24-hour rainfall frequency analysis per elevation bin.

Elevation (m)	Number of stations
<=500	20
501 – 1,000	433
1,001 – 1,500	498
1,501 – 2,000	422
1,001 – 2,500	218
2,501 – 3,000	108
>3,000	21

Table 4.7.2: Rainfall / Precipitation ratios for various elevation bins and average recurrence intervals for the 24-hour duration.

ARI	Elevation bins (meters)						
	<=500	500–1,000	1,001–1,500	1,501–2,000	2,001–2,500	2,501–3,000	>3000
1-year	0.973	0.973	0.960	0.917	0.839	0.764	0.695
10-year	0.985	0.985	0.981	0.954	0.910	0.847	0.764
100-year	0.991	0.991	0.987	0.968	0.949	0.911	0.879
1000-year	1.000	1.000	1.000	1.000	0.970	0.960	0.950

Similar to the 24-hour analysis, annual maximum series for precipitation and rainfall are compared using elevation bins at different recurrence intervals and durations, and mean ratios are calculated. The number of sub-daily stations used per elevation bin are shown in Table 4.7.3. Lastly, these sub-hourly ratios were combined with the 24-hour ratios (Table 4.7.4). Ratios for all ARIs/AEPs from 1-year to 1000-year were interpolated using Piecewise Cubic Hermite Interpolating Polynomial (PCHIP) and log-transformed durations as the independent variables. Additional optimization was used to constrain ratios to a maximum of 1.00, and also enforce consistency (e.g. ratio for 1-hr > 2-hr > 3-hr > 6-hr > 12-hr > 24-hr). Ratio consistency was typically only necessary for average recurrence intervals above 100-year. Some manual adjustments were needed at sub-daily for the highest two elevation bins, where only 8 and 2 stations existed, respectively. Results show higher ratios (more liquid contribution) for the shorter durations and rarer average recurrence intervals, consistent with warm season convection at short durations.

Table 4.7.3: Number of stations used for sub-daily rainfall frequency analysis per elevation bin.

Elevation (m)	Number of stations
<=500	9
501 – 1,000	100
1,001 – 1,500	176
1,501 – 2,000	123
1,001 – 2,500	52
2,501 – 3,000	8
>3,000	2

4.7.4. Development of rainfall frequency grids and confidence limits.

Ratios from Table 4.7.4 are multiplied with relevant precipitation frequency gridded information (e.g. 100-year 24-hour) to create a rainfall-only equivalent frequency grid. The same ratios were used to

estimate confidence limits by multiplying with the relevant lower or upper precipitation frequency grid. Due to applying these ratios directly to the precipitation frequency confidence limits, it is important to note that the rainfall confidence limits do not incorporate the added uncertainty with respect to the precipitation-to-rainfall conversion process itself.

Table 4.7.4: Rainfall / Precipitation ratios for various elevation bins and average recurrence intervals for the 1-hour, 2-hour, 3-hour, 6-hour, and 12-hour, combined with the original 24-hour ratios.

ARI	Duration	Elevation bins (meters)						
		<=500	500–1,000	1,001–1,500	1,501–2,000	2,001–2,500	2,501–3,000	>3000
1-yr	60-min	0.988	0.988	0.988	0.979	0.967	0.935	0.935
1-yr	2-hr	0.987	0.987	0.987	0.979	0.963	0.919	0.919
1-yr	3-hr	0.987	0.987	0.987	0.978	0.959	0.900	0.900
1-yr	6-hr	0.986	0.986	0.986	0.969	0.939	0.832	0.822
1-yr	12-hr	0.982	0.982	0.978	0.949	0.900	0.789	0.754
1-yr	24-hr	0.973	0.973	0.960	0.917	0.839	0.764	0.695
10-yr	60-min	0.997	0.997	0.997	0.996	0.996	0.995	0.995
10-yr	2-hr	0.997	0.997	0.997	0.995	0.992	0.992	0.992
10-yr	3-hr	0.996	0.996	0.996	0.994	0.989	0.988	0.987
10-yr	6-hr	0.994	0.994	0.994	0.992	0.980	0.955	0.945
10-yr	12-hr	0.990	0.990	0.989	0.980	0.955	0.908	0.871
10-yr	24-hr	0.985	0.985	0.981	0.954	0.910	0.847	0.764
100-yr	60-min	1.000	1.000	1.000	1.000	1.000	1.000	1.000
100-yr	2-hr	1.000	1.000	1.000	1.000	1.000	1.000	0.994
100-yr	3-hr	1.000	1.000	1.000	1.000	1.000	1.000	0.990
100-yr	6-hr	1.000	1.000	1.000	1.000	1.000	0.985	0.983
100-yr	12-hr	0.997	0.997	0.996	0.991	0.985	0.956	0.949
100-yr	24-hr	0.991	0.991	0.987	0.968	0.949	0.911	0.879
1000-yr	60-min	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1000-yr	2-hr	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1000-yr	3-hr	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1000-yr	6-hr	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1000-yr	12-hr	1.000	1.000	1.000	1.000	0.991	0.988	0.985
1000-yr	24-hr	1.000	1.000	1.000	1.000	0.970	0.960	0.950

4.8. Derivation of grids

4.8.1. Mean annual maximum precipitation

Grids of mean annual maxima (MAM) served as the basis for deriving gridded precipitation frequency estimates at different frequencies and durations. The station mean annual maximum values for the 17 durations from 15-minute and 60-day were spatially interpolated to produce corresponding mean annual maximum grids at 30 arc-seconds resolution using a hybrid statistical-geographic approach for mapping climate data named Parameter-elevation Regressions on Independent Slopes Model (PRISM), developed by Oregon State University’s PRISM Climate Group (e.g., Daly et al., 2002).

Several iterations with the PRISM Climate Group were made to ensure satisfactory MAM patterns. Gauged locations where interpolated MAMs for selected base durations (1-hour, 6-hour, 1-day, 4-day, 10-day, 30-day, and 60-day) were more than 15% different (determined by jackknife analysis) than the expected at-station MAMs were carefully re-examined. As a result of those reviews, some MAM estimates often received minor adjustments. MAMs were also estimated for a number of locations to better anchor the spatial interpolation in complex terrain areas and/or where the lack of stations with sufficiently long records unduly influenced expected spatial patterns, particularly at hourly durations. To aid in this estimation, SNOTEL hourly gauges were used to help estimate hourly values at many of the daily SNOTEL stations at 1-hour and 6-hour, particularly those areas that PRISM was having noticeable difficulties at those short durations during the first initial iterations. Since SNOTEL hourly stations have a short data record and data quality issues, these stations were primarily used only where data closely matched the overlapping quality controlled daily SNOTEL data.

Appendix A.3 provides detailed information on the PRISM-based methodology for creating the mean annual maximum grids. In summary, a unique regression function was developed for each target grid cell to derive mean annual maximum values for each duration that accounted for the difference between an observing station and the target cell's mean annual precipitation, topographic facet, coastal proximity, the distance of an observing station to the target cell, etc. Jackknife cross-validation indicated that the overall percent bias was less than 1.0% for 24-hour and 10-day, and -4.11% for 60-min, and the mean absolute error was approximately 6% across for the three durations.

4.8.2. Precipitation frequency estimates with confidence limits

Estimates for 60-minute through 60-day durations. The spatial interpolation technique used in this volume developed grids of AMS-based and PDS-based precipitation frequency estimates along the frequency dimension for a given duration. Hence, the evolution of frequency-dependent spatial patterns for a given duration was independent of other durations. The technique utilizes the inherently strong linear relationship that was found to exist between precipitation frequency estimates for consecutive frequencies, as well as mean annual maxima and 2-year precipitation frequency estimates. For example, Figure 4.8.1 a) shows the relationship between the 50-year and 100-year estimates for the 24-hour duration for this project area together with regression lines for a linear model and zero-intercept model. The R^2 values are very close to 1.0, which was common for all relationships. Another common occurrence was a negligible intercept coefficient in the linear model regression equations, so a zero-intercept model was adopted for all frequencies and durations. The slope coefficient of the zero-intercept model represents an average domain-wide ratio between consecutive quantiles; in this case, 1.120 is an average ratio between 100-year and 50-year quantiles for the 24-hour duration for the whole project area. Although the correlation coefficients were very high, when plotted on a map, at-station ratios showed some regional features (as shown in Figure 4.8.1 b) for the same example); this finding was used in the grid generation process.

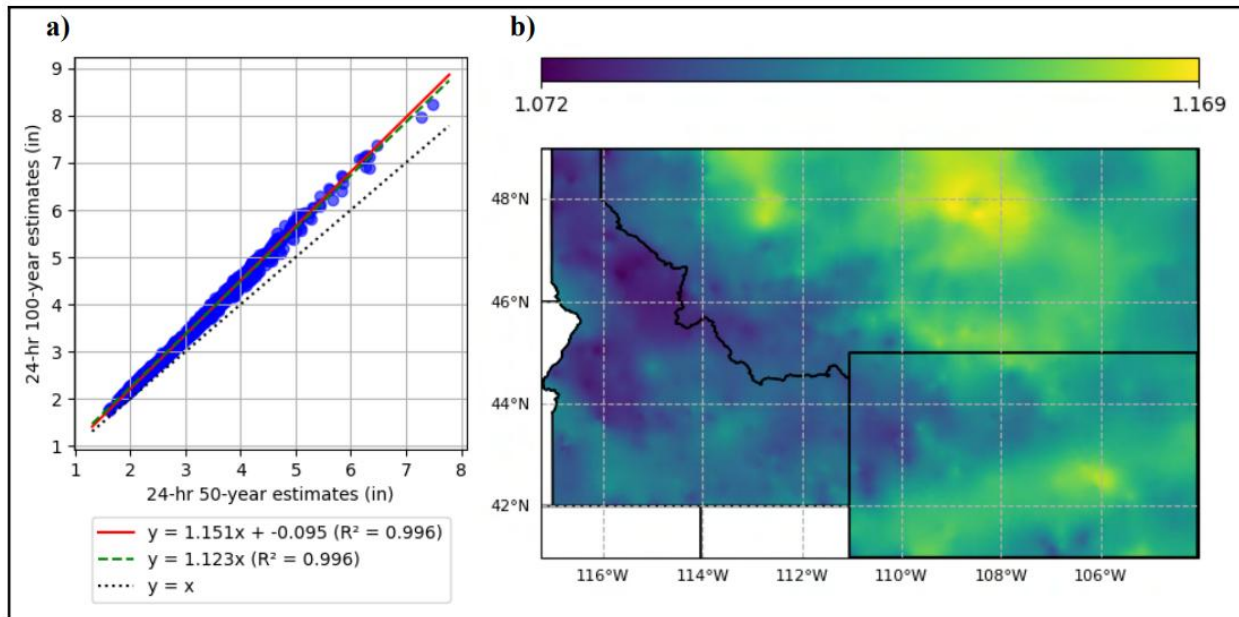


Figure 4.8.1. a) Scatter plot of 100-year versus 50-year 24-hour precipitation frequency estimates. Linear model, zero-intercept linear model, and 1:1 lines are also shown. b) Spatially interpolated ratios used to calculate 24-hour 100-year precipitation frequency grid from the 24-hour 50-year grid.

For each duration, the calculation began with the PRISM-derived MAM grid as the initial predictor grid and the grid of 2-year precipitation frequency estimates as the resulting subsequent grid. At-station ratios between the 2-year estimates and corresponding MAM estimates were spatially interpolated to a grid using a natural neighbor interpolation method, which provides a smooth approximation to the underlying "true" function while remaining true to the at-station estimates. Gridded MAM estimates were then multiplied by corresponding gridded ratios to create a grid of 2-year precipitation frequency estimates. In the subsequent run, ratios between the 5-year and 2-year estimates were interpolated and used to calculate the 5-year precipitation grid from the 2-year grid, and so forth. The grid of 2-year precipitation frequency estimates was also used to create a grid of 1-year estimates. The same process was repeated for all hourly and daily durations.

During the review process, station-driven contour lines were showing up in cartographic maps in flat terrain areas (see Appendix A.4). The majority of these were driven by small differences in MAM estimates at nearby stations and selected mapping contour intervals, but to reduce a number of station-driven contours in the final cartographic maps, a dynamic filter was applied to the precipitation frequency grids. Parameters of the filter, which controlled the amount of smoothing, were a function of elevation gradients and proximity to the coastline. Parameters were selected such that minimal smoothing was applied at the coastline or in the mountains, maximum smoothing was applied in flat terrain, and the transition from one to another was gradual. The resulting smoothed grid then served in the subsequent run as the basis for the derivation of the next grid.

To ensure consistency in grid cell values across all durations and frequencies (e.g., 24-hour estimate has to be at least equal to 12-hour estimate), duration-based internal consistency checks were conducted. For inconsistent cases, the longer duration grid cell value was adjusted by multiplying the shorter duration grid cell value by 1.01 to provide a 1% difference between the values. After grid cell consistency was ensured across durations, it was performed across frequencies to ensure that there were no frequency-based inconsistencies caused by the adjustment across durations.

A jackknife cross-validation was used to evaluate the spatial interpolation technique's performance for interpolating precipitation frequency estimates. It was cost prohibitive to re-create the PRISM mean annual maximum grids for each cross-validation iteration. For this reason, the cross-validation results reflect the accuracy of the interpolation procedure based on the same mean annual maximum grids. Figure 4.8.2 shows validation results for 100-year estimates for the 1-hour and 24-hour durations as histograms showing the distribution of differences in estimates with and without each station (errors). Overall, the spatial interpolation technique adequately reproduced values. Errors in 100-year estimates were less than $\pm 10\%$ for 97% of stations for the 1-hour duration and for 99% of stations for the 24-hour duration.

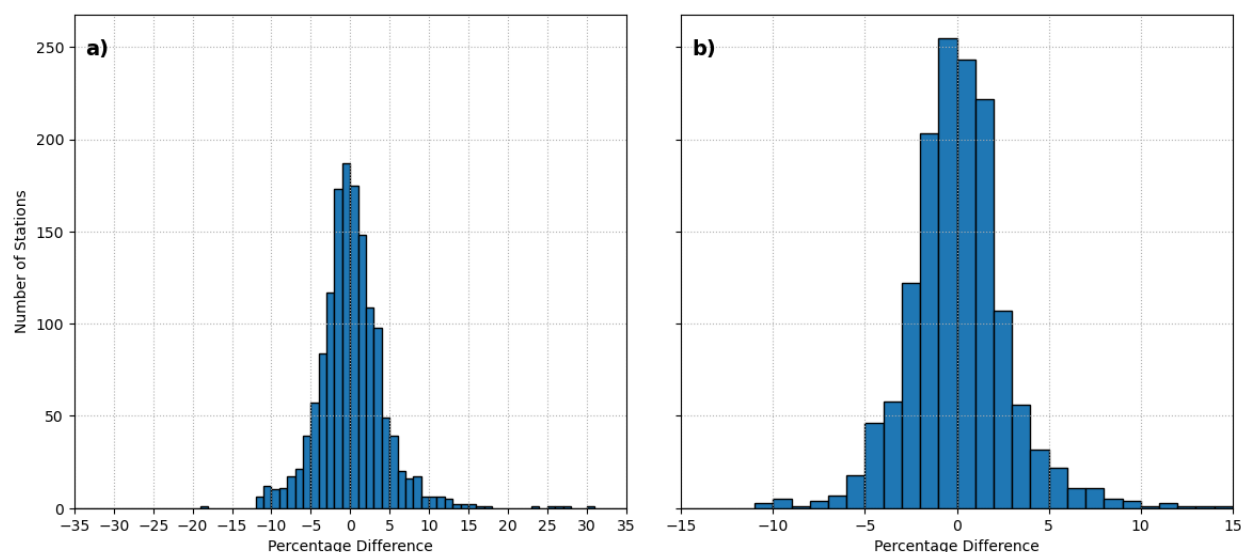


Figure 4.8.2. NOAA Atlas 14 Volume 12 jackknife cross-validation results for: a) 100-year 1-hour estimates, and b) 100-year 24-hour estimates.

Estimates for 5-minute through 30-minute durations. Precipitation frequency grids for sub-hourly durations were derived by applying scaling factors, due to the sparseness of 15-minute and n-minute data in the project area, as well as the lack of diversity of elevations for these stations. This was done in two steps: 15-minute and 30-minute scaling factors applied to the 60-minute gridded estimates, and then 5-minute and 10-minute scaling factors applied to the 15-minute gridded estimates.

Scaling factors for 15-minute and 30-minute were obtained from 15-minute stations, which had a median period of record of 28 years. From the 15-minute stations, at-station precipitation frequency estimates for average recurrence intervals from 1-year to 100-year were calculated for 15-minute, 30-minute and 60-minute. Ratios of 15-minute / 60-minute and 30-minute / 60-minute were calculated at each station per average recurrence interval. Using multiple linear regression of the ratios, with covariates such as elevation, latitude and longitude, no statistically significant spatial patterns were found. Additionally, calculating region-average ratios per average recurrence interval did not show strong dependence on average recurrence interval. From these results, scaling factors for 15-minute and 30-minute were assumed to be uniform for the whole area and for all average recurrence intervals: 0.69 for 15-minute and 0.84 for 30-minute. These scaling factors were applied to the 60-minute precipitation frequency grids to create matching 15-minute and 30-minute grids.

Similarly, precipitation frequency grids for 5-minute and 10-minute durations were derived by multiplying the 15-minute precipitation frequency grids by scaling factors. Scaling factors were obtained from n-minute stations (1-minute timestep). They were calculated as average ratios of 5-minute and 10-minute annual maxima to corresponding 15-minute annual maxima. Given that relatively few n-minute

stations were available (63), and that at-station scaling factors varied little across the project area, they were also assumed to be uniform for the whole area: 0.62 for 5-minute duration and 0.86 for 10-minute duration. The scaling factors were applied to the 15-minute precipitation frequency grids for all frequencies to create matching 5-minute and 10-minute grids.

Confidence limits. Grids of upper and lower limits of the 90% confidence interval for the precipitation frequency estimates between 5-minute and 30-minute durations were derived using the same procedures that were used to create grids of precipitation frequency estimates.

5. Precipitation Frequency Data Server

NOAA Atlas 14 precipitation frequency estimates are delivered entirely in digital form in order to make the estimates more widely available and to provide them in various formats. The [Precipitation Frequency Data Server \(PFDS\)](#) provides a point-and-click web portal for precipitation frequency estimates and associated information.

In early 2011, the PFDS underwent a major redesign to make PFDS pages interactive. Since then, PFDS pages were enhanced on several occasions to improve the usability and readability of the PFDS website's content, to increase data download speeds, and to provide additional information. In order to keep this section of the documentation up-to-date for all volumes, the PFDS section is offered as a separate document. This document is updated as needed and is available for download from [here](#).

6. Peer review

A peer review of preliminary results for the NOAA Atlas 14 (NA14) Volume 12 precipitation frequency project was carried out in the period between 10 October, 2023 and 22 December, 2023. An invitation for the review was sent to individuals who expressed interest in updates to the Volume 12 project area and/or subscribed to the HDSC mailing list server.

The review package included the following items:

a. Station metadata. Reviewers were asked to examine the accuracy of stations' metadata and provide comments on suggested stations' deletions and merges. Stations were grouped into three categories: a) stations within the Interior Northwest (INW) used in the analysis, b) stations outside the INW used in the analysis, and c) stations that were examined but not retained for the analysis. The metadata tables included information on each station's name, state, abbreviation used to identify the agency that provided data for the station, agency-assigned ID, latitude, longitude, elevation, and period of record. The tables also included basic information on other stations that contributed data to that station for sub-hourly, hourly, and daily durations, if applicable. If station data was collected but not used in the analysis, a brief comment was also provided on why the data was not used.

b. Spatially-interpolated estimates. Reviewers were invited to comment on the overall and local spatial patterns in spatially-interpolated precipitation frequency estimates for 2-year and 100-year ARIs and for 60-minute, 6-hour, 24-hour, and 10-day durations. To illustrate how much estimates changed in the project area, cartographic maps showing differences between preliminary NOAA Atlas 14 and superseded NOAA estimates for 100-year ARI and 6-hour and 24-hour durations were also shared.

c. At-station depth-duration-frequency (DDF) curves. Reviewers were asked to examine the DDF curves only for stations within the project states retained in the analysis for 60-minute to 10-day durations and for 2-year through 100-year average recurrence intervals and to comment on their reasonableness.

Comments were received from ten individuals representing various federal and state agencies, as well as the private sector. Their reviews provided critical feedback that improved the estimates. Reviewers' comments regarding station data, patterns of spatially interpolated precipitation frequency estimates, and comparisons with other studies can be found in Appendix A.4 along with HDSC responses.

7. Comparison with previous NOAA publications

The precipitation frequency estimates in NOAA Atlas 14 (NA14) Volume 12 supersede the estimates published in the following publications:

- a. [*Short Duration Rainfall Relations for the Western United States*](#), Preprint Volume of the Conference on Climate and Water Management, American Meteorological Society (Arnell et al., 1986) for 5-minute to 60-minute durations;
- b. [*NOAA Atlas 2 Volume 1, Precipitation-Frequency Atlas of the Western United States, Montana*](#) (Miller et al., 1973) for 1-hour to 24-hour durations in Montana;
- c. [*NOAA Atlas 2 Volume 2, Precipitation-Frequency Atlas of the Western United States, Wyoming*](#) (Miller et al., 1973) for 1-hour to 24-hour durations in Wyoming;
- d. [*NOAA Atlas 2 Volume 5, Precipitation-Frequency Atlas of the Western United States, Idaho*](#) (Miller et al., 1973) for 1-hour to 24-hour durations in Idaho;
- e. [*Weather Bureau Technical Paper No. 49, Two-to-Ten-Day Precipitation for Return Periods of 2 to 100 Years in the Contiguous United States*](#) (Miller, 1964) for 2-day to 10-day durations.

Precipitation frequency estimates at the 100-year average recurrence interval from NOAA Atlas 14 were examined in relation to corresponding estimates from NOAA Atlas 2 (NA2) for the 6-hour and 24-hour durations. Corresponding grids from NA2 used in the comparison were obtained from the Bureau of Reclamation, which digitized isopleths from paper cartographic maps and interpolated it to high-resolution (15-sec) grids. The digitizing of the NA2 data sets was developed with the specific purpose of performing the storm studies used in the development of Hydrometeorological Report (HMR) 55A, HMR 57 and the analysis of parameters used in the development of probable maximum precipitation (PMP) in these reports. Richard Stodt was the project leader and conducted a large portion of the work.

100-year 6-hour. The maps in Figures 7.1 and 7.2 illustrate the differences between NA14 and NA2 100-year 6-hour estimates in inches and in percentages, respectively. 100-year 6-hour precipitation frequency estimates at specific locations across the project area changed between -1.13 and 1.61 inches, or from -40% to 72%. The largest increases occurred in mountainous areas, with parts of the Idaho panhandle, northwest Montana and central Montana increasing over 1.25 inches. Other areas with notable increases of 0.76–1.25 inches were along the Montana-Idaho border near Wyoming and south of Casper, WY, extending from the north end of the Laramie Mountains south to the Shirley Mountains. Relatively flatter areas with increases of 0.76–1.25 inches include much of eastern Montana and in the vicinity of Cheyenne, WY. Most decreases were also in mountainous areas, the largest being over one inch in the Wind River Range of Wyoming. Other notable decreases were in the Absaroka Range of Montana north of Yellowstone National Park and the Bitterroot Mountains in Idaho, which both saw decreases of 0.50–0.99 inches.

The differences in estimates between the two publications are attributed to several factors. Firstly, differences in data quality control procedures and frequency analysis approaches (such as distribution selection, parameter estimation method, regional versus at-station methods) affect estimates, especially at higher ARIs. Section 4.6.1 of this document describes the methods used in NA14 and their advantages. Secondly, differences in spatial interpolation techniques impact estimates at ungauged locations. NA2 interpolated precipitation-frequency values with regression equations for sub-regions considered to be meteorologically homogeneous; NA14 estimates were based on the PRISM interpolation consisting of a local moving-window regression and weighting functions for station data (see Appendix A.3 for more details). Finally, the increase in the amount of available data from NA2 to NA14, both in the number of stations and their record lengths, has a considerable effect on estimates. NA2 was published in 1973 using data through 1970. Of the 189 stations in Idaho, Montana and Wyoming used for NA2 6-hour estimates, none had a record length of at least 30 years, and 42% had less than 20 years. NA14 utilized 566 stations for hourly durations with record lengths ranging from 9 to 75 years and an average length of 36 years.

Furthermore, many weather station networks, such as RAWS and SNOTEL, did not exist at the time but have accumulated sufficient records for use in NA14. These networks provide sub-daily and daily data for many remote and/or high-elevation locations where station data were unavailable for NA2. This allows for more representative estimates at these locations and aids interpolation in surrounding areas.

100-year 24-hour. The maps in Figures 7.3 and 7.4 illustrate the differences between NA14 and NA2 100-year 24-hour estimates in inches and in percentages, respectively. 100-year 24-hour precipitation frequency estimates at specific locations across the project area changed between -2.46 and 5.07 inches, or from -47% to 124%. Areas with the largest increases and decreases generally coincide with those at 100-year 6-hour. The largest increase occurred in the Cabinet Mountains of Idaho, with an increase of about 4 to 5 inches (~101–124%). Areas of northwest Montana and central Montana increased over 2–3 inches, and multiple areas of eastern Montana increased over an inch. In Wyoming, parts of the Laramie Mountains between Casper and Cheyenne and the Black Hills region increased by over one inch. The largest decreases (over two inches) were again in Wind River Range of Wyoming and the Absaroka Range of Montana north of Yellowstone National Park. The Bitterroot Mountains and parts of other mountain ranges in central Idaho decreased over an inch. A section of the Bighorn Mountains in Wyoming also decreased, in some areas over an inch.

Differences in estimates can be attributed to similar factors as for the 6-hour duration: different data quality control techniques, frequency analysis approaches, and spatial interpolation techniques. Also, longer periods of record for stations used in both studies and additional data from networks that began observing after 1970. Of the 598 stations in Idaho, Montana and Wyoming used for NA2 24-hour estimates, none had a record length of at least 70 years, and 63% had less than 30 years. For NA14, 1521 stations were used with record lengths ranging from 10 to 150 years and an average length of 60 years. Many changes in remote mountain areas are supported by station data, especially the SNOTEL network, that did not exist for NA2. For example, the largest increase at 100-year 6-hour and 24-hour occurred in the vicinity of the Bear Mountain SNOTEL station in Idaho. Beginning in 1982, this station has already exceeded the interpolated NA2 100-yr 24-hr estimate of 4.29 inches nine times in 42 years, and also measured the state 24-hour precipitation record of 9.4 inches on November 6-7, 2006. This station data is the major reason behind the increase of nearly four inches for the estimate at this location.

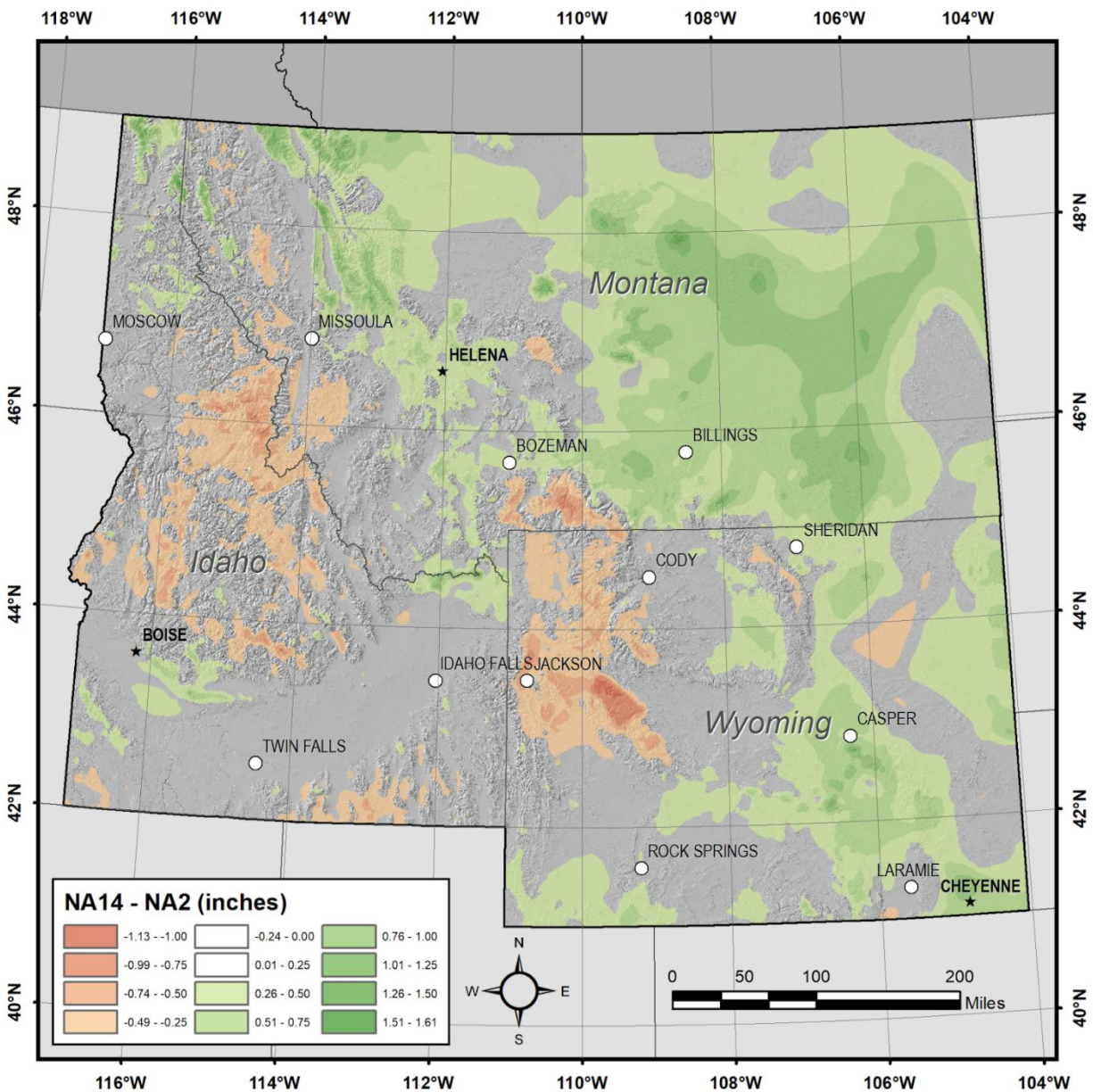


Figure 7.1. Map showing differences in 100-year 6-hour estimates (in inches) between NA14 and NA2 for the Interior Northwest.

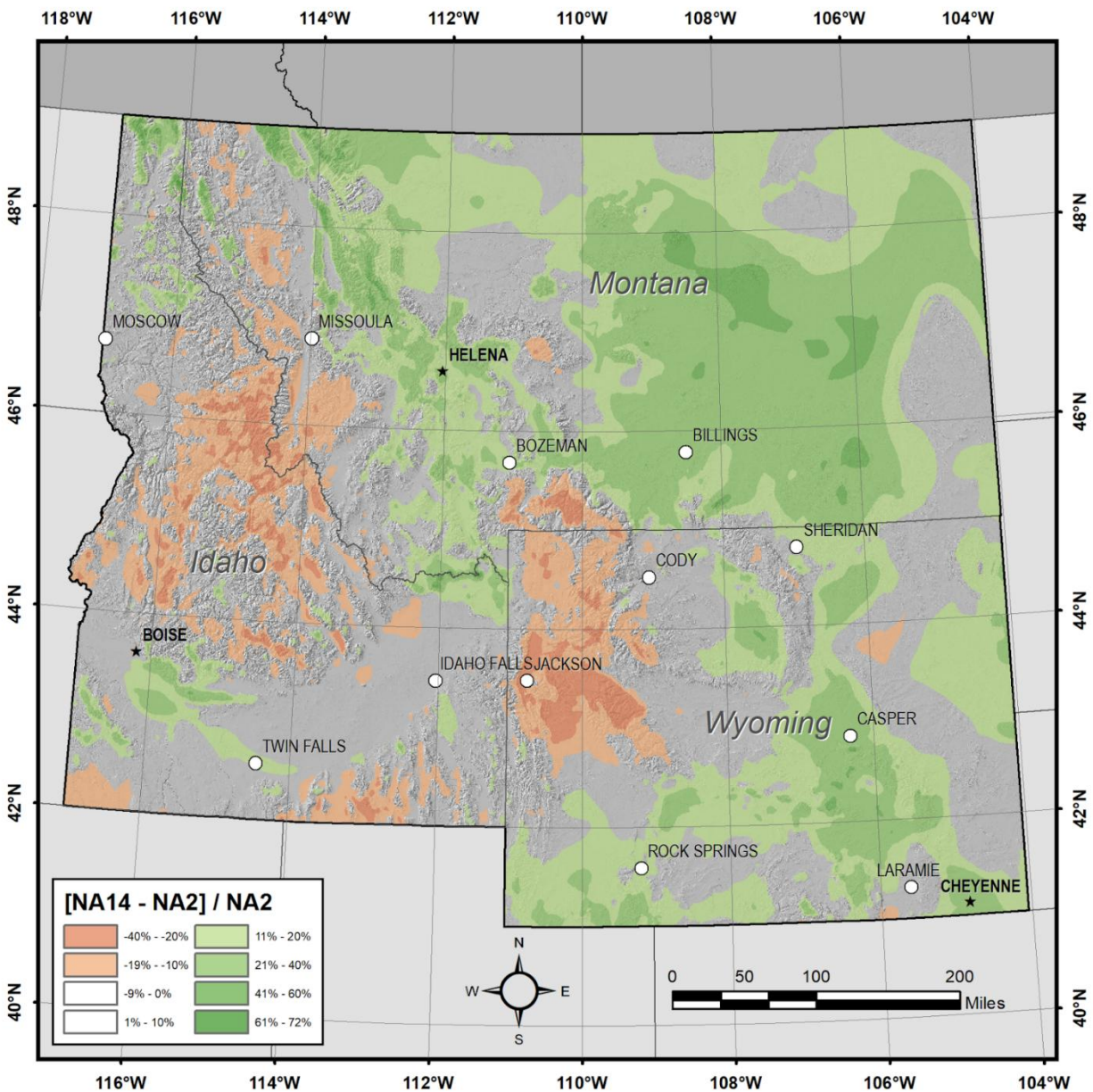


Figure 7.2. Map showing percent differences in 100-year 6-hour estimates between NA14 and NA2 for the Interior Northwest.

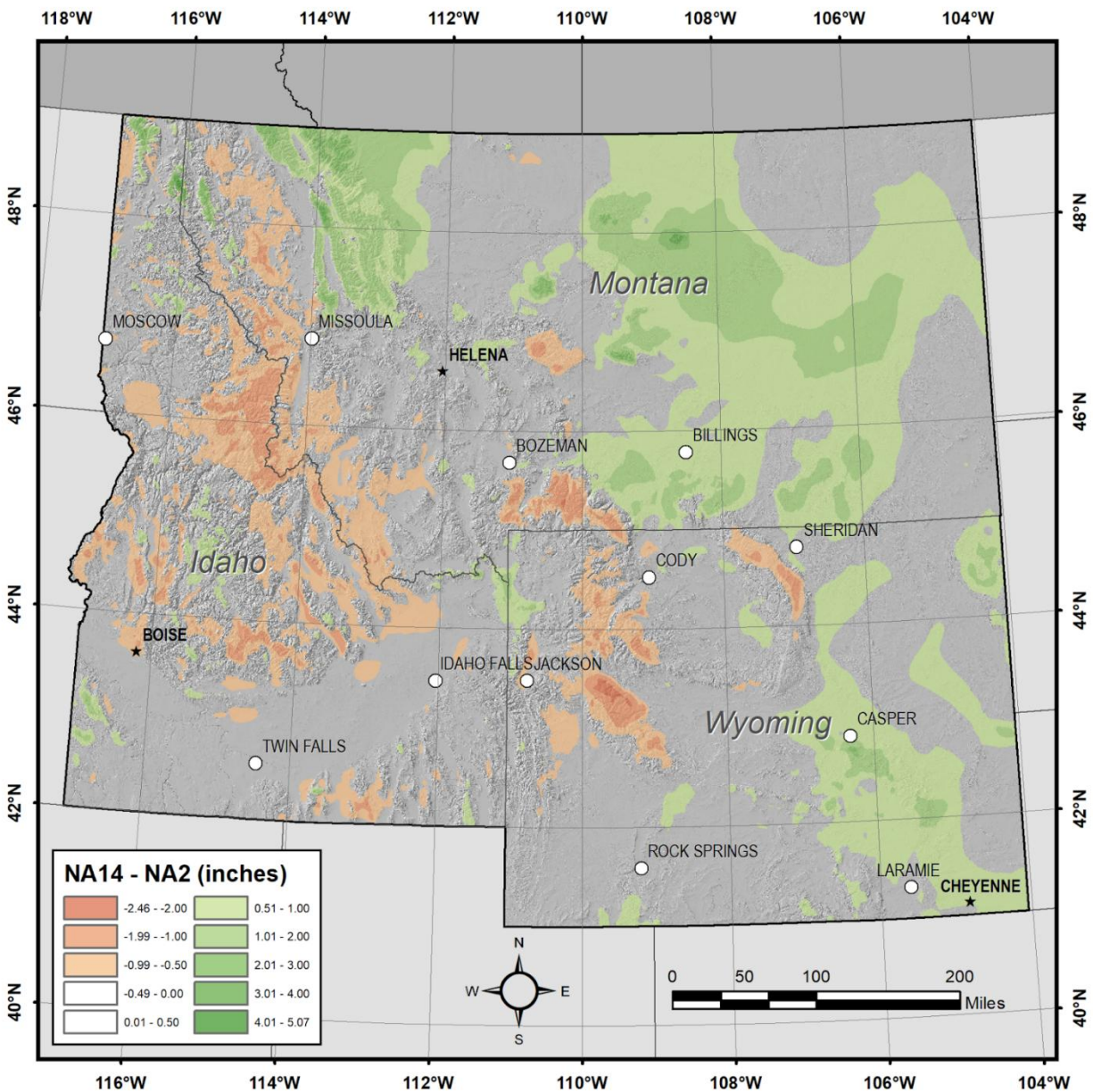


Figure 7.3. Map showing differences in 100-year 24-hour estimates (in inches) between NA14 and NA2 for the Interior Northwest.

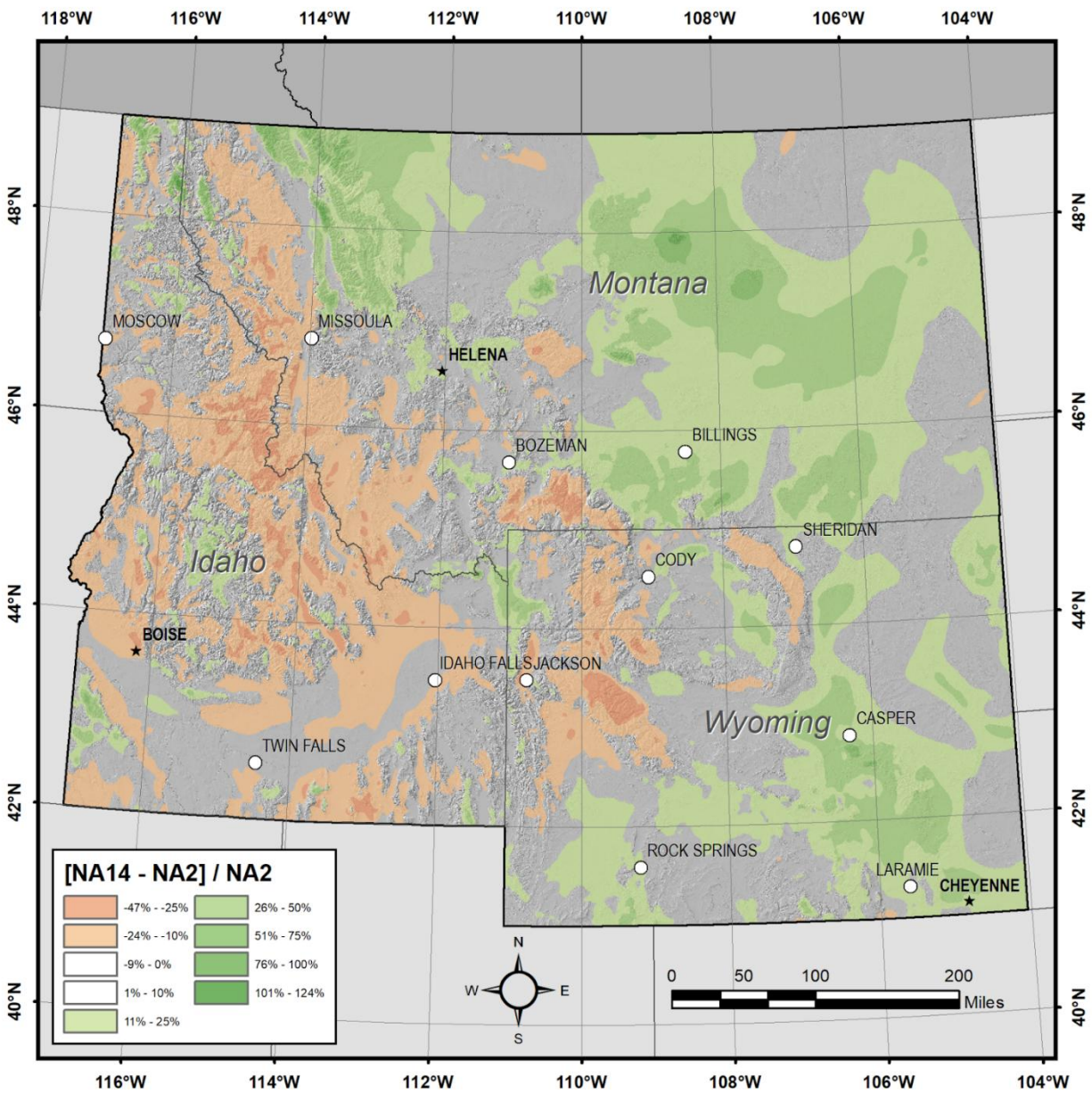


Figure 7.4. Map showing percent differences in 100-year 24-hour estimates between NA14 and NA2.

Appendix A.1. Metadata for stations used to prepare precipitation frequency estimates.

Table A.1.1. Idaho, Montana, and Wyoming locations for which precipitation frequency estimates were directly derived. The table shows each location's state (for consistency with table A.1.2), name, identification number (SID), latitude, longitude, elevation, and AMS record lengths (data years) across sub-hourly, hourly, and daily durations. It also lists SIDs for stations that contributed data to this location for sub-hourly, hourly, and/or daily durations. Details on contributing stations' metadata are provided in Tables A.1.3 and A.1.4.

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
ID	ABERDEEN EXP STN	10-0010	42.9536	-112.8253	4405	25	25	109	89-0033 15M	89-0033 15M	10-0010 DLY
ID	AMERICAN FALLS 6 NE	10-0227	42.8572	-112.8800	4415	0	0	98			10-0227 DLY
ID	ANDERSON DAM	10-0282	43.3572	-115.4522	3882	0	21	50		10-0282 HLY	10-0282 DLY
ID	ARBON 2 NW	10-0347	42.5031	-112.5758	5210	0	0	38			10-0347 DLY
ID	ARCO	10-0375	43.6356	-113.2997	5325	26	26	88	89-0015 15M	89-0015 15M	10-0375 DLY 89-0015 15M
ID	ARROWROCK DAM	10-0448	43.5936	-115.9236	3235	0	0	95			10-0448 DLY
ID	ASHTON 1N	10-0470	44.0708	-111.4564	5212	0	0	118			10-0470 DLY
ID	ATLANTA	10-0491	43.8000	-115.1333	5505	0	0	45			10-0491 DLY 10-0494 DLY 10-0493 DLY
ID	AVERY RS	10-0525	47.2500	-115.8000	2490	0	0	54			10-0525 DLY
ID	AVERY RS #2	10-0528	47.2533	-115.9203	2394	0	0	30			10-0528 DLY
ID	BAYVIEW MODEL BASIN	10-0667	47.9803	-116.5594	2087	0	0	67			10-0667 DLY
ID	BERN	10-0803	42.3353	-111.3850	5964	0	0	31			10-0803 DLY
ID	BLACKFOOT FIRE DEPT	10-0915	43.1917	-112.3453	4499	0	0	111			10-0915 DLY
ID	BLACKFOOT DAM	10-0920	43.0000	-111.7167	6204	0	0	31			10-0920 DLY 10-0920 HLY
ID	BLISS 4 NW	10-1002	42.9544	-115.0131	3275	0	0	78			10-1002 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
ID	BOISE 3 E	10-1016	43.6192	-116.1331	3377	23	24	24	10-1016 15M	10-1016 HLY	10-1016 HLY
ID	BOISE 7 N	10-1017	43.7383	-116.2022	3885	0	0	47			10-1017 DLY
ID	BOISE LUCKY PEAK DAM	10-1018	43.5253	-116.0542	2840	37	53	60	10-1018 15M 54-0014 15M	10-1018 HLY 54-0014 15M	10-1018 DLY 54-0014 15M
ID	BONNERS FERRY	10-1079	48.6928	-116.3103	2075	29	67	101	10-1079 15M	10-1079 HLY 76-0033 HLY	10-1079 DLY 76-0033 HLY 10-1079 HLY 10-1084 DLY
ID	BROWNLEE DAM	10-1180	44.8364	-116.8981	1844	0	0	44			10-1180 DLY
ID	BRUNEAU	10-1195	42.8819	-115.8017	2530	0	0	55			10-1195 DLY
ID	BUHL #2	10-1220	42.6006	-114.7453	3800	0	0	87			10-1220 DLY 10-1217 DLY
ID	CABINET GORGE	10-1363	48.0864	-116.0572	2173	0	0	54			10-1363 DLY
ID	CALDER	10-1370	47.2747	-116.1889	2185	26	26	29	10-1370 15M	10-1370 HLY	10-1370 HLY
ID	CALDWELL	10-1380	43.6667	-116.6833	2370	0	0	92			10-1380 DLY
ID	CAMBRIDGE	10-1408	44.5733	-116.6753	2650	24	25	119	10-1410 15M	10-1410 HLY	10-1408 DLY
ID	CASCADE 1 NW	10-1514	44.5228	-116.0481	4896	28	68	81	10-1514 15M	10-1514 HLY 87-3101 HLY 10-1524 HLY	10-1514 DLY 87-3105 DLY 10-9380 DLY
ID	CASTLEFORD 2 N	10-1551	42.5503	-114.8661	3825	0	0	52			10-1551 DLY
ID	CENTERVILLE ARBAUGH RCH	10-1636	43.9592	-115.8453	4440	0	0	101			10-1636 DLY 10-3861 DLY
ID	CHALLIS	10-1663	44.5036	-114.2397	5175	0	44	103		10-1663 HLY 76-0041 HLY	10-1663 DLY 76-0041 HLY
ID	CHILLY BARTON FLAT	10-1671	43.9778	-113.8292	6260	0	0	83			10-1671 DLY 10-0621 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
ID	CLARKIA	10-1831	47.0111	-116.2558	2822	0	39	43		10-1831 HLY	10-1831 DLY 10-1831 HLY
ID	COEUR D'ALENE	10-1956	47.6822	-116.7967	2133	26	43	104	10-1956 15M 54-0016 15M	10-1956 HLY 54-0016 15M	10-1956 DLY 99-1956 DLY 54-0016 15M
ID	CONDA	10-2071	42.7167	-111.5500	6204	0	0	39			10-2071 DLY
ID	COTTONWOOD 2 WSW	10-2159	46.0336	-116.3919	3945	21	48	103	10-2159 15M 54-0017 15M	10-2159 HLY 54-0017 15M	10-2159 DLY 10-2154 DLY 10-2159 HLY
ID	COUNCIL	10-2187	44.7442	-116.4325	2943	22	43	87	10-2187 15M	10-2187 HLY	10-2187 DLY
ID	CRATERS OF THE MOON	10-2260	43.4628	-113.5600	5914	0	0	65			10-2260 DLY 79-0007 DLY
ID	DEADWOOD DAM	10-2385	44.3167	-115.6333	5384	0	23	87		10-2385 HLY	10-2385 DLY 86-0423 DLY 10-2385 HLY
ID	DEER FLAT DAM	10-2444	43.5764	-116.7475	2510	0	0	65			10-2444 DLY
ID	DIXIE	10-2575	45.5525	-115.4606	5620	20	22	71	10-2575 15M 54-0018 15M	10-2575 HLY 54-0018 15M	10-2575 DLY 10-2577 DLY 54-0018 15M
ID	DRIGGS	10-2676	43.7306	-111.1125	6120	0	0	90			10-2676 DLY
ID	DUBOIS EXP STN	10-2707	44.2436	-112.2006	5450	42	64	98	10-2707 15M 89-0001 15M 54-0019 15M	10-2707 HLY 89-0001 15M 54-0019 15M	10-2707 DLY
ID	DWORSHAK FISH HATCHERY	10-2845	46.5022	-116.3217	995	35	38	54	10-2845 15M	10-2845 HLY	10-2845 DLY
ID	ELK CITY 1NE	10-2875	45.8356	-115.4611	4058	28	29	64	10-2875 15M 54-0021 15M	10-2875 15M 54-0021 15M	10-2875 DLY
ID	ELK RVR	10-2892	46.7822	-116.1797	2866	24	22	55	10-2892 15M	10-2892 HLY	10-2892 DLY 10-2892 HLY
ID	EMMETT 2 E	10-2942	43.8544	-116.4664	2390	0	0	114			10-2942 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
ID	ENAVILLE	10-2966	47.5689	-116.2531	2120	31	31	31	10-2966 15M 10-2971 15M	10-2966 HLY 10-2971 15M	10-2966 HLY 10-2971 15M
ID	FAIRFIELD RS	10-3108	43.3428	-114.7900	5065	0	31	71		87-3331 HLY	10-3108 DLY 10-3110 DLY 87-3331 HLY
ID	FENN RS	10-3143	46.0931	-115.5356	1560	34	59	78	10-3143 15M 54-0022 15M	10-3143 HLY 76-0060 HLY 54-0022 15M	10-3143 DLY 54-0022 15M
ID	FT HALL 1 NNE	10-3297	43.0425	-112.4144	4465	22	22	107	89-0032 15M	89-0032 15M	10-3297 DLY
ID	GARDEN VALLEY	10-3448	44.1011	-115.9694	3100	0	0	93			10-3448 DLY
ID	GIBBONSVILLE	10-3554	45.5394	-113.9275	4480	0	0	49			10-3554 DLY 10-3558 DLY
ID	GLENNS FERRY	10-3631	42.9403	-115.3231	2466	0	0	103			10-3631 DLY
ID	GRACE	10-3732	42.5872	-111.7275	5550	27	52	106	10-3732 15M 54-0024 15M	10-3732 HLY 87-3501 HLY 54-0024 15M	10-3732 DLY
ID	GRAND VIEW 4 NW	10-3760	43.0175	-116.1772	2400	0	0	89			10-3760 DLY
ID	GRANGEVILLE	10-3771	45.9414	-116.1175	3300	0	0	106			10-3771 DLY 69-1404 DLY 54-0025 15M 10-3773 15M
ID	GRASMERE 3 S	10-3811	42.3450	-115.8836	5140	31	39	44	10-3811 15M 54-0026 15M	10-3811 HLY 54-0026 15M	10-3811 HLY 54-0026 15M
ID	GRAY	10-3825	43.0500	-111.3667	6450	0	0	30			10-3825 DLY
ID	GROUSE	10-3882	43.7186	-113.5472	6001	0	0	67			10-3882 DLY
ID	HAGERMAN 2 SW	10-3932	42.8114	-114.9239	2897	0	0	34			10-3932 DLY
ID	HAILEY 3 NNW	10-3942	43.5667	-114.3333	5424	0	0	74			10-3942 DLY
ID	HAMER 4 NW	10-3964	43.9664	-112.2642	4790	0	0	75			10-3964 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
ID	HAZELTON	10-4140	42.5972	-114.1378	4060	0	0	97			10-4140 DLY
ID	HEADQUARTERS	10-4150	46.6311	-115.8086	3200	0	0	53			10-4150 DLY 61-0031 DLY 10-4154 DLY
ID	HENRY	10-4230	42.9419	-111.4361	6644	28	29	33	10-4230 15M	10-4230 HLY	10-4230 DLY 10-4230 HLY
ID	HILL CITY 1 W	10-4268	43.2994	-115.0733	5100	0	0	85			10-4268 DLY
ID	HOLLISTER	10-4295	42.3528	-114.5739	4525	0	0	95			10-4295 DLY
ID	HOWE	10-4384	43.7828	-113.0033	4820	0	0	82			10-4384 DLY
ID	IDAHO CITY	10-4442	43.8383	-115.8319	3965	0	34	113		87-3741 HLY	10-4442 DLY 87-3741 HLY
ID	IDAHO CITY 11 SW	10-4450	43.7167	-116.0000	5003	0	0	52			10-4450 DLY 99-4450 DLY
ID	IDAHO FALLS - KIFI	10-4455	43.5139	-112.0125	4742	0	0	64			10-4455 DLY
ID	IDAHO FALLS 16 SE	10-4456	43.3456	-111.7847	5828	33	43	68	10-4456 15M	10-4456 HLY	10-4456 DLY
ID	ISLAND PARK	10-4598	44.4189	-111.3714	6290	0	22	82		76-0077 HLY 86-0546 HLY	10-4598 DLY 76-0077 HLY 80-0180 DLY 54-0029 15M
ID	JEROME	10-4670	42.7325	-114.5192	3740	0	0	103			10-4670 DLY
ID	KAMIAH	10-4793	46.2300	-116.0339	1210	0	0	88			10-4793 DLY
ID	KELLOGG	10-4831	47.5339	-116.1222	2377	0	0	114			10-4831 DLY
ID	KETCHUM RS	10-4845	43.6842	-114.3603	5890	26	52	78	10-4845 15M 54-0030 15M	10-4845 HLY 10-8906 HLY 54-0030 15M 10-4845 15M 54-0030 15M	10-4845 DLY 10-8906 DLY 54-0030 15M 10-4845 HLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
ID	KOOSKIA	10-5011	46.1448	-115.9779	1280	0	0	78			10-5011 DLY
ID	LEADORE #2	10-5177	44.6831	-113.3622	6000	35	70	75	10-5177 15M 10-5169 15M 54-0031 15M	10-5177 HLY 76-0085 HLY 10-5169 HLY 54-0031 15M	10-5177 DLY 76-0085 HLY 10-5169 HLY 54-0031 15M 10-5169 DLY 10-5169 HLY 54-0031 15M
ID	LIFTON PUMPING STN	10-5275	42.1231	-111.3133	5935	0	0	101			10-5275 DLY
ID	LOWMAN	10-5414	44.0828	-115.6186	3920	0	0	82			10-5414 DLY 10-5420 DLY 10-5426 DLY
ID	MACKAY LOST RVR RS	10-5462	43.9178	-113.6153	5897	23	50	107	10-5462 15M 54-0032 15M	10-5462 HLY 54-0032 15M	10-5462 DLY
ID	MALAD	10-5544	42.2000	-112.2667	4581	0	29	66		10-5544 HLY	10-5544 DLY
ID	MALTA 4 ESE	10-5563	42.2917	-113.3042	4590	0	0	37			10-5563 DLY
ID	MALTA	10-5567	42.3061	-113.3689	4521	0	43	57		10-5567 HLY	10-5567 DLY 10-5567 HLY
ID	MASSACRE ROCKS SP	10-5678	42.6681	-112.9981	4195	0	0	48			10-5678 DLY
ID	MAY 2SSE	10-5685	44.5664	-113.8953	5050	0	0	69			10-5685 DLY
ID	MCCALL	10-5708	44.8872	-116.1047	5025	32	44	112	10-5708 15M 54-0034 15M	10-5708 HLY 72-0482 HLY 54-0034 15M	10-5708 DLY
ID	MCCAMMON	10-5716	42.6522	-112.1936	4770	0	0	41			10-5716 DLY
ID	MERIDIAN 1 W	10-5841	43.6167	-116.4167	2621	0	0	48			10-5841 DLY
ID	MIDDLE FORK LODGE	10-5897	44.7189	-115.0150	4480	29	40	50	10-5897 15M	10-5897 HLY 76-0084 HLY	10-5897 DLY 76-0084 HLY 10-5897 HLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
ID	MINIDOKA DAM	10-5980	42.6769	-113.5022	4164	0	0	73			10-5980 DLY
ID	MONTPELIER RS	10-6053	42.3167	-111.3000	5960	0	0	73			10-6053 DLY
ID	MOSCOW U OF I	10-6152	46.7281	-116.9558	2660	0	0	128			10-6152 DLY
ID	MTN HOME	10-6174	43.1261	-115.7119	3140	35	53	113	10-6174 15M 54-0035 15M	10-6174 HLY 54-0035 15M	10-6174 DLY 69-1387 DLY 54-0035 15M
ID	MULLAN	10-6230	47.4661	-115.8114	3201	39	38	62	10-6230 15M 54-0036 15M	10-6230 15M 54-0036 15M	10-6230 DLY 79-0112 DLY 54-0036 15M
ID	MURPHY (DESERT) HOT SPRINGS	10-6250	42.0264	-115.3597	5152	0	20	25		10-6250 HLY 54-0037 15M	10-6250 DLY 10-6250 HLY
ID	NAMPA SUGAR FACTORY	10-6305	43.6039	-116.5753	2470	0	0	69			10-6305 DLY 69-1378 DLY 10-6300 DLY 10-6295 DLY
ID	NEW MEADOWS RS	10-6388	44.9714	-116.2933	3862	0	0	98			10-6388 DLY
ID	NEZPERCE	10-6424	46.2325	-116.2430	3248	0	0	66			10-6424 DLY 10-6421 DLY
ID	OAKLEY	10-6542	42.2342	-113.8981	4559	0	0	128			10-6542 DLY
ID	OBSIDIAN 3 SSE	10-6553	44.0333	-114.8333	6873	0	0	42			10-6553 DLY
ID	OLA	10-6586	44.1758	-116.2828	3075	27	43	82	10-6586 15M 10-6590 15M 54-0038 15M	10-6586 HLY 10-6590 HLY 54-0038 15M	10-6586 DLY 10-6590 DLY 54-0038 15M
ID	OROFINO	10-6681	46.4823	-116.2488	1046	0	0	75			10-6681 DLY
ID	PALISADES	10-6764	43.3500	-111.2167	5385	0	0	42			10-6764 DLY
ID	PARMA EXP STN	10-6844	43.8022	-116.9442	2290	0	0	93			10-6844 DLY
ID	PAUL 1ENE	10-6877	42.6117	-113.7628	4150	0	0	74			10-6877 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
ID	PAYETTE	10-6891	44.0764	-116.9311	2150	0	0	112			10-6891 DLY
ID	PICABO	10-7040	43.3086	-114.0667	4839	0	0	63			10-7040 DLY
ID	PIERCE	10-7046	46.4922	-115.8006	3080	25	56	96	10-7046 15M	10-7046 HLY 86-1142 HLY 10-7049 HLY	10-7046 DLY 10-7047 DLY 10-7049 DLY 80-0320 DLY 10-7046 HLY
ID	PINE 2 S	10-7079	43.4667	-115.3167	4232	0	0	37			10-7079 DLY
ID	PLUMMER 3 WSW	10-7188	47.3111	-116.9544	2905	0	36	45		10-7188 HLY	10-7188 DLY 10-7188 HLY
ID	POCATELLO 2 NE	10-7208	42.8917	-112.4086	4832	0	0	35			10-7208 DLY 69-1311 DLY
ID	POCATELLO CITY	10-7210	42.8750	-112.4469	4460	0	0	71			10-7210 DLY 99-0001 DLY 98-7210 DLY
ID	PORTHILL 1 SW	10-7264	48.9939	-116.5025	1799	37	35	118	10-7269 15M 54-0039 15M	10-7269 HLY 54-0039 15M	10-7264 DLY 54-0039 15M 10-7269 HLY 54-0039 15M 10-7269 HLY
ID	POTLATCH 3 NNE	10-7301	46.9603	-116.8550	2760	0	0	97			10-7301 DLY
ID	POWELL	10-7320	46.5100	-114.7111	3530	0	0	44			10-7320 DLY
ID	PRAIRIE	10-7327	43.5064	-115.5717	4780	28	54	79	10-7327 15M 54-0040 15M	10-7327 HLY 86-0704 HLY 54-0040 15M	10-7327 DLY 54-0040 15M 10-7327 HLY 80-0335 DLY 10-7327 HLY 54-0040 15M
ID	PRESTON	10-7346	42.0933	-111.8825	4719	0	0	97			10-7346 DLY 10-7353 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
ID	PRIEST RVR EXP STN	10-7386	48.3511	-116.8353	2371	0	0	119			10-7386 DLY
ID	REXBURG BYU IDAHO	10-7644	43.8083	-111.7892	5005	0	0	42			10-7644 DLY 10-7642 DLY
ID	RICHFIELD	10-7673	43.0517	-114.1550	4309	0	0	100			10-7673 DLY
ID	RIGGINS	10-7706	45.4239	-116.3150	1800	0	0	93			10-7706 DLY
ID	ROLAND WEST PORTAL	10-7858	47.3789	-115.6684	4154	0	0	30			10-7858 DLY
ID	RUPERT 3 WSW	10-7968	42.6022	-113.7233	4200	0	0	76			10-7968 DLY
ID	SAINT ANTHONY	10-8022	43.9517	-111.6789	4910	0	0	76			10-8022 DLY
ID	SAINT MARIES	10-8062	47.3164	-116.5789	2151	0	0	116			10-8062 DLY 69-1359 DLY
ID	SALMON-KSRA	10-8080	45.1731	-113.8856	3953	0	0	111			10-8080 DLY 10-8076 DLY
ID	SANDPOINT EXP STN	10-8137	48.2942	-116.5628	2126	32	45	107	10-8137 15M 54-0041 15M	10-8137 HLY 54-0041 15M	10-8137 DLY 54-0041 15M 10-8137 HLY
ID	SHOSHONE 1 WNW	10-8380	42.9383	-114.4169	3950	0	0	110			10-8380 DLY
ID	SHOUP	10-8395	45.3767	-114.2775	3400	0	0	41			10-8395 DLY
ID	SODA SPRINGS AP	10-8535	42.6514	-111.5833	5842	0	0	42			10-8535 DLY 69-1360 DLY
ID	SPENCER	10-8604	44.3606	-112.1864	5892	0	0	38			10-8604 DLY
ID	SPRINGFIELD 1 SE	10-8626	43.0667	-112.6833	4413	0	0	44			10-8626 DLY
ID	STANLEY	10-8676	44.2208	-114.9347	6249	0	0	53			10-8676 DLY 76-0147 HLY
ID	SUGAR CITY	10-8818	43.8867	-111.7367	4925	21	21	90	89-0005 15M	89-0005 15M	10-8818 DLY 10-8072 DLY 89-0005 15M

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
ID	SWAN FALLS PH	10-8928	43.2436	-116.3783	2325	0	0	87			10-8928 DLY
ID	SWAN VALLEY	10-8937	43.4372	-111.2792	5397	0	0	110			10-8937 DLY 10-4588 DLY
ID	TAYLOR RCH	10-9000	45.1017	-114.8508	3835	0	0	35			10-9000 DLY 76-0149 HLY
ID	TETONIA EXP STN	10-9065	43.8564	-111.2769	6170	27	45	68	10-9065 15M 54-0044 15M	10-9065 HLY 10-1881 HLY 54-0044 15M	10-9065 DLY 54-0044 15M 10-9065 HLY 54-0044 15M 10-9065 HLY
ID	THREE CREEK	10-9119	42.0833	-115.1500	5460	0	0	44			10-9119 DLY 10-9119 HLY
ID	TOPAZ	10-9158	42.6250	-112.0881	4918	28	29	28	10-9158 15M 54-0045 15M	10-9158 15M 54-0045 15M	10-9158 15M 54-0045 15M
ID	TWIN FALLS-KMVT	10-9293	42.5808	-114.4569	3670	0	0	97			10-9293 DLY 10-9294 DLY
ID	TWIN FALLS 6 E	10-9303	42.5458	-114.3461	3960	0	39	95		10-9303 HLY 87-5221 HLY	10-9303 DLY 10-9299 DLY 87-5224 DLY
ID	WALLACE	10-9498	47.4753	-115.9314	2710	0	22	108		10-9498 HLY	10-9498 DLY 10-9493 DLY 10-9498 HLY
ID	WARREN	10-9560	45.2658	-115.6789	5907	0	0	52			10-9560 DLY
ID	WEISER	10-9638	44.2456	-116.9697	2120	0	0	92			10-9638 DLY 10-9637 DLY
ID	WINCHESTER	10-9846	46.2381	-116.6233	3972	0	0	76			10-9846 DLY 10-9840 DLY
ID	YELLOWPINE 7 S	10-9951	44.8542	-115.5114	5100	27	32	35	10-9951 15M	10-9951 HLY	10-9951 DLY 10-9951 HLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
ID	YELLOWPINE BAR	10-9963	45.5450	-115.2514	2480	20	20	24	10-9963 15M 54-0047 15M	10-9963 15M 54-0047 15M	10-9963 DLY 54-0047 15M
MT	ALBERTON	24-0075	47.0036	-114.4781	3060	0	0	40			24-0075 DLY
MT	ALBION 1 N	24-0088	45.2089	-104.2647	3312	0	0	56			24-0088 DLY
MT	ALDER	24-0100	45.3167	-112.1167	5125	0	29	47		87-1763 HLY 24-0100 HLY	24-0100 DLY 87-1763 HLY 24-0100 HLY
MT	ALDER 19S	24-0111	45.0961	-112.0856	5749	0	0	63			24-0111 DLY 24-0110 DLY
MT	ALZADA	24-0165	45.0156	-104.4108	3450	30	60	63	24-0165 15M 54-0049 15M	24-0165 HLY 54-0049 15M	24-0165 HLY 54-0049 15M
MT	ANACONDA	24-0199	46.1308	-112.9333	5230	0	0	111			24-0199 DLY 24-2606 DLY 24-2604 DLY
MT	ASHLAND RS	24-0330	45.5939	-106.2722	2940	31	56	62	24-0330 15M 54-0050 15M	24-0330 HLY 54-0050 15M	24-0330 HLY 54-0050 15M
MT	AUGUSTA	24-0364	47.4925	-112.3969	4070	29	47	108	24-0364 15M	24-0364 HLY 24-0364 15M	24-0364 DLY 72-2547 HLY 24-0364 HLY
MT	AUSTIN 1 W	24-0375	46.6456	-112.2656	4851	0	0	54			24-0375 DLY
MT	BABB 6 NE	24-0392	48.9389	-113.3719	4300	0	0	98			24-0392 DLY
MT	BALLANTINE	24-0432	45.9497	-108.1439	3000	0	0	79			24-0432 DLY
MT	BARBER	24-0466	46.3108	-109.3719	3730	0	0	55			24-0466 DLY
MT	BAYLOR	24-0554	48.6714	-106.4808	2963	28	59	64	24-0554 15M 54-0051 15M	24-0554 HLY 54-0051 15M	24-0554 DLY 54-0051 15M 24-0554 HLY
MT	BELLTOWER	24-0636	45.6947	-104.3856	3234	0	0	71			24-0636 DLY
MT	BIDDLE	24-0739	45.1008	-105.3186	3312	0	0	66			24-0739 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	BIDDLE 8 SW	24-0743	45.0428	-105.4800	3631	0	0	60			24-0743 DLY
MT	BIGFORK 13 S	24-0755	47.8769	-114.0336	2979	0	0	74			24-0755 DLY
MT	BIG SANDY	24-0770	48.1347	-110.0592	2770	0	0	88			24-0770 DLY
MT	BIG TIMBER	24-0780	45.8325	-109.9511	4100	0	0	113			24-0780 DLY
MT	BILLINGS WTP	24-0802	45.7717	-108.4811	3097	0	0	117			24-0802 DLY
MT	BIRNEY	24-0819	45.3247	-106.5125	3160	0	0	42			24-0819 DLY
MT	BLACKLEAF	24-0877	48.0128	-112.4369	4235	0	0	62			24-0877 DLY
MT	BLOOMFIELD 6 E	24-0926	47.4167	-104.8000	2552	0	21	23		24-0926 HLY	24-0926 DLY 24-0926 HLY
MT	BOULDER	24-1008	46.2311	-112.1139	4904	43	61	95	24-1008 15M 54-0052 15M	24-1008 HLY 54-0052 15M	24-1008 DLY 99-1008 DLY 69-1583 DLY 54-0052 15M
MT	BOZEMAN MONTANA STATE UNIV	24-1044	45.6622	-111.0464	4913	0	0	127			24-1044 DLY
MT	BOZEMAN 6 W EXP FARM	24-1047	45.6728	-111.1547	4775	0	33	57		24-1047 HLY 87-0343 HLY	24-1047 DLY 87-0343 HLY
MT	BOZEMAN 12 NE	24-1050	45.8167	-110.8833	5950	0	0	45			24-1050 DLY
MT	BRADY AZNOE	24-1080	47.9500	-111.3333	3333	0	0	62			24-1080 DLY
MT	BRADY 27 ENE (THE KNEES)	24-1081	48.0750	-111.2603	3325	0	0	36			24-1081 DLY
MT	BRANDENBERG	24-1084	45.8161	-106.2328	2770	0	0	66			24-1084 DLY
MT	BREDETTE	24-1088	48.5156	-105.2992	2313	27	67	83	24-1088 15M 54-0053 15M	24-1088 HLY 54-0053 15M	24-1088 DLY 54-0053 15M 24-1088 HLY
MT	BRIDGER 2 N	24-1102	45.3261	-108.9092	3583	24	56	104	24-1102 15M 54-0054 15M	24-1102 HLY 54-0054 15M	24-1102 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	BROADUS	24-1127	45.4442	-105.4072	3032	32	60	88	24-1127 15M 54-0055 15M	24-1127 HLY 54-0055 15M	24-1127 DLY
MT	BROADVIEW	24-1149	46.1000	-108.8833	3881	0	0	46			24-1149 DLY
MT	BROCKWAY 3 WSW	24-1169	47.2875	-105.8300	2630	0	0	62			24-1169 DLY
MT	BROWNING	24-1202	48.5594	-113.0108	4355	31	60	116	24-1202 15M 54-0056 15M	24-1202 HLY 76-0180 HLY 54-0056 15M	24-1202 DLY 24-1217 DLY 76-0180 HLY 54-0056 15M 24-1202 HLY
MT	BRUSETT 3 N	24-1231	47.4647	-107.3114	2974	0	0	72			24-1231 DLY
MT	BUSBY	24-1297	45.5397	-106.9597	3430	0	0	110			24-1297 DLY 99-1297 DLY
MT	BUTTE 8 S	24-1309	45.8967	-112.5472	5700	40	55	58	24-1309 15M 54-0057 15M	24-1309 HLY 54-0057 15M	24-1309 HLY 54-0057 15M
MT	BYNUM 4 SSE	24-1342	47.9261	-112.2919	4039	0	0	36			24-1342 DLY
MT	CAMERON	24-1408	45.2000	-111.6833	5500	21	43	43	24-1408 15M	24-1408 HLY	24-1408 HLY
MT	CANYON CREEK	24-1450	46.8167	-112.2500	4314	0	0	33			24-1450 DLY
MT	CANYON FERRY DAM	24-1470	46.6500	-111.7333	3672	0	0	96			24-1470 DLY 24-1460 DLY 24-1465 DLY
MT	CARDWELL	24-1500	45.8608	-111.9519	4270	38	37	57	24-1500 15M 24-8914 15M 54-0058 15M	24-1500 15M 24-8914 15M 54-0058 15M	24-1500 DLY 79-0071 DLY 24-8914 HLY 54-0058 15M
MT	CARLYLE 13 NW	24-1518	46.7444	-104.3092	3145	0	0	58			24-1518 DLY
MT	CARTER 14 W	24-1525	47.7922	-111.2203	3450	0	0	35			24-1525 DLY
MT	CASCADE 5 S	24-1552	47.2192	-111.7106	3360	0	0	111			24-1552 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	CASCADE 20 SSE	24-1557	46.9956	-111.5772	4600	0	0	115			24-1557 DLY 24-0056 DLY
MT	CHESTER	24-1692	48.5092	-110.9694	3132	0	0	87			24-1692 DLY
MT	CHINOOK	24-1722	48.5883	-109.2267	2420	0	0	117			24-1722 DLY
MT	CHOTEAU	24-1737	47.8206	-112.1922	3845	41	70	108	24-1737 15M 54-0059 15M	24-1737 HLY 54-0059 15M	24-1737 DLY
MT	CIRCLE	24-1758	47.4122	-105.5956	2480	0	0	60			24-1758 DLY
MT	CIRCLE 7 N	24-1765	47.5167	-105.5667	2431	0	0	34			24-1765 DLY
MT	CLARK CANYON DAM	24-1781	45.0017	-112.8575	5580	24	49	53	24-1781 15M	24-1781 HLY 24-0274 HLY	24-1781 HLY 24-0274 HLY
MT	COHAGEN	24-1875	47.0564	-106.6164	2720	25	39	55	24-1875 15M 54-0060 15M	24-1875 HLY 54-0060 15M	24-1875 DLY
MT	COLSTRIP	24-1905	45.8944	-106.6336	3218	0	0	92			24-1905 DLY
MT	COLUMBIA FALLS 5 SW	24-1919	48.3167	-114.2000	3081	0	0	49			24-1919 DLY
MT	COLUMBUS	24-1938	45.6444	-109.2675	3602	0	0	91			24-1938 DLY
MT	CONRAD	24-1974	48.1736	-111.9503	3550	0	0	100			24-1974 DLY
MT	CONTENT 4 NNE	24-1984	48.0803	-107.5250	2325	0	48	68		24-1984 HLY 54-0061 15M	24-1984 DLY 54-0061 15M 24-1984 HLY 24-1984 15M
MT	COOKE CITY 2 W	24-1995	45.0108	-109.9819	7483	0	34	67		24-1995 HLY 24-9211 HLY 24-1995 15M	24-1995 DLY 24-9211 HLY 24-9211 DLY 24-7603 DLY 24-1995 HLY
MT	COPPER	24-2012	46.6000	-110.6667	5682	0	0	46			24-2012 DLY
MT	CRESTON	24-2104	48.1881	-114.1339	2935	0	32	74		87-3091 HLY	24-2104 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	CROW AGENCY	24-2112	45.6000	-107.4500	3030	0	21	118		76-0247 HLY	24-2112 DLY 76-0247 HLY 63-0027 DLY 61-0028 DLY
MT	CULBERTSON	24-2122	48.1503	-104.5089	1940	0	0	115			24-2122 DLY
MT	DARBY	24-2221	46.0264	-114.1764	3880	29	30	81	24-2221 15M	24-2221 HLY	24-2221 DLY 72-2284 HLY
MT	DECKER	24-2266	45.0117	-106.8636	3520	0	0	73			24-2266 DLY 69-2666 DLY 24-2266 HLY 24-2266 HLY
MT	DEER LODGE 3 W	24-2275	46.3911	-112.7975	4850	0	0	86			24-2275 DLY 24-2273 DLY
MT	DEL BONITA	24-2301	48.9983	-112.7886	4337	0	0	58			24-2301 DLY 24-2301 HLY
MT	DENTON	24-2347	47.3181	-109.9372	3610	0	0	88			24-2347 DLY
MT	DILLON U OF MONTANA WESTERN	24-2409	45.2089	-112.6389	5129	0	0	124			24-2409 DLY
MT	DILLON 9 SSE	24-2414	45.0917	-112.6044	5500	32	54	57	24-2414 15M 54-0064 15M	24-2414 HLY 54-0064 15M	24-2414 HLY 54-0064 15M
MT	DIVIDE	24-2421	45.7511	-112.7547	5350	35	54	69	24-2421 15M 54-0065 15M	24-2421 HLY 54-0065 15M	24-2421 DLY 54-0065 15M
MT	DODSON 1 WNW	24-2438	48.3992	-108.2625	2294	0	0	56			24-2438 DLY
MT	DODSON 11 N	24-2441	48.5542	-108.2067	2710	29	47	52	24-2441 15M 54-0066 15M	24-2441 HLY 54-0066 15M	24-2441 HLY 54-0066 15M
MT	DOVETAIL	24-2477	47.3500	-108.2500	2743	0	21	22		24-2477 HLY	24-2477 HLY
MT	DUNKIRK 19NNE	24-2550	48.7167	-111.4758	3323	0	0	88			24-2550 DLY
MT	DUPUYER	24-2571	48.2000	-112.5000	4134	0	23	25		24-2571 HLY	24-2571 HLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	DUTTON 6 E	24-2584	47.8433	-111.5794	3594	40	59	63	24-2584 15M 54-0068 15M	24-2584 HLY 54-0068 15M	24-2584 HLY 54-0068 15M
MT	E GLACIER	24-2629	48.4472	-113.2236	4806	0	0	66			24-2629 DLY 24-3551 DLY
MT	EDGAR 9 SE	24-2661	45.3965	-108.7241	4400	0	0	33			24-2661 DLY 24-2658 DLY
MT	EKALAKA	24-2689	45.8864	-104.5478	3432	25	44	118	24-2689 15M 54-0069 15M	24-2689 HLY 54-0069 15M	24-2689 DLY
MT	ELKHORN HOT SPRINGS	24-2719	45.4667	-113.1167	7385	0	33	39		24-2719 HLY 24-2720 HLY	24-2719 DLY 24-2720 HLY 24-2719 HLY
MT	ELLISTON	24-2738	46.5631	-112.4342	5080	0	0	49			24-2738 DLY
MT	ENNIS	24-2793	45.3394	-111.7122	4953	0	0	97			24-2793 DLY
MT	ESSEX	24-2812	48.2828	-113.6061	3850	0	22	36		24-2812 HLY	24-2812 DLY 24-2812 HLY
MT	ETHRIDGE	24-2820	48.5586	-112.1253	3552	0	0	55			24-2820 DLY
MT	EUREKA RS	24-2827	48.8978	-115.0644	2532	37	57	68	24-2827 15M 54-0070 15M	24-2827 HLY 76-0209 HLY 54-0070 15M	24-2827 DLY 24-2825 DLY
MT	FAIRFIELD	24-2857	47.6150	-111.9861	3983	0	0	92			24-2857 DLY
MT	FISHTAIL	24-2996	45.4531	-109.5069	4500	0	27	68		76-0213 HLY	24-2996 DLY
MT	FLATWILLOW 4 ENE	24-3013	46.8217	-108.3725	3292	0	0	109			24-3013 DLY
MT	FORKS 4 NNE	24-3089	48.7778	-107.4536	2599	0	0	77			24-3089 DLY
MT	FORSYTH	24-3098	46.2722	-106.6756	2515	0	0	92			24-3098 DLY 24-3099 DLY 69-1682 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	FT ASSINIBOINE	24-3110	48.4983	-109.8014	2675	0	0	116			24-3110 DLY 52-3110 DLY 52-3111 DLY 88-2019 DLY
MT	FT BENTON	24-3113	47.8303	-110.6611	2649	0	0	110			24-3113 DLY 52-3122 DLY 52-3113 DLY
MT	FORTINE 1 N	24-3139	48.7783	-114.8997	3000	0	0	98			24-3139 DLY 24-3142 DLY
MT	FT LOGAN 4 ESE	24-3157	46.6547	-111.0939	4710	0	0	65			24-3157 DLY 52-3157 DLY
MT	FT PECK PWR PLT	24-3176	48.0119	-106.4117	2071	41	64	78	24-3176 15M 54-0071 15M	24-3176 HLY 24-3175 HLY 54-0071 15M	24-3176 DLY 24-3175 DLY
MT	FRAZER	24-3280	48.0667	-106.0500	2070	0	0	41			24-3280 DLY
MT	GALATA 16 SW	24-3346	48.2922	-111.5683	3550	0	0	74			24-3346 DLY
MT	GALLATIN GATEWAY 10SSW	24-3366	45.4453	-111.2367	5441	0	14	67		76-0291 HLY 54-0072 15M 24-3366 15M	24-3366 DLY 54-0072 15M 24-3366 15M 76-0291 HLY 54-0072 15M
MT	GARDINER	24-3378	45.0317	-110.7036	5275	0	0	49			24-3378 DLY 69-9000 DLY
MT	GARLAND	24-3383	46.0500	-105.9167	2602	0	0	34			24-3383 DLY
MT	GERALDINE	24-3445	47.6014	-110.2669	3145	0	0	55			24-3445 DLY
MT	GERALDINE 6 SE	24-3455	47.5333	-110.1667	3451	0	0	38			24-3455 DLY
MT	GIBBONS PASS	24-3479	45.6928	-113.9550	7070	31	47	55	24-3479 15M 54-0073 15M	24-3479 HLY 54-0073 15M 24-3479 15M	24-3479 HLY 54-0073 15M 24-3479 15M

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	GIBSON 2 NE	24-3486	46.0397	-109.4953	4444	0	0	60			24-3486 DLY
MT	GIBSON DAM	24-3489	47.6011	-112.7547	4590	31	65	99	24-3489 15M	24-3489 HLY 87-3411 HLY	24-3489 DLY 24-3489 HLY
MT	GILDFORD	24-3530	48.5647	-110.3028	2820	0	0	63			24-3530 DLY
MT	GLASGOW 14 NW	24-3554	48.3531	-106.8425	2160	0	0	61			24-3554 DLY
MT	GLEN 4 N	24-3570	45.5261	-112.7006	5054	0	0	50			24-3570 DLY
MT	GLENDIVE	24-3581	47.1058	-104.7175	2075	33	62	125	24-3581 15M 54-0074 15M	24-3581 HLY 54-0074 15M	24-3581 DLY 24-3581 HLY
MT	GOLDBUTTE 7 N	24-3617	48.9753	-111.3989	3498	0	0	107			24-3617 DLY
MT	GRANT 5 SE	24-3707	44.9656	-113.0042	5780	0	0	68			24-3707 DLY
MT	GRASS RANGE	24-3727	47.0256	-108.8036	3490	0	0	88			24-3727 DLY
MT	GREAT FALLS 16ST	24-3749	47.4883	-111.2792	3505	0	0	60			24-3749 DLY
MT	HAMILTON	24-3885	46.2461	-114.1681	3585	0	0	109			24-3885 DLY
MT	HARB	24-3910	48.2333	-107.4103	2542	0	0	44			24-3910 DLY
MT	HARDIN	24-3915	45.7317	-107.6092	2880	0	0	68			24-3915 DLY
MT	HARLEM	24-3929	48.5353	-108.7964	2371	0	22	87		87-1083 HLY	24-3929 DLY 87-1083 HLY
MT	HARLOWTON	24-3939	46.4356	-109.8428	4222	0	0	61			24-3939 DLY
MT	HAUGAN 1 W	24-3984	47.3889	-115.4225	3160	22	44	96	24-3984 15M 24-2260 15M	24-3984 HLY 24-2260 HLY	24-3984 DLY 24-2260 DLY 72-2314 HLY
MT	HAXBY 18 SW	24-4007	47.5667	-106.7000	2651	0	0	68			24-4007 DLY
MT	HEBGEN DAM	24-4038	44.8667	-111.3392	6489	32	50	108	24-4038 15M	24-4038 HLY	24-4038 DLY 24-4038 HLY
MT	HELENA 6 N	24-4050	46.6667	-112.0500	3802	0	0	55			24-4050 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	HERON 2 NW	24-4084	48.0800	-116.0014	2240	0	0	110			24-4084 DLY 98-4084 DLY
MT	HIGHWOOD	24-4120	47.5500	-110.7833	3401	0	25	40		24-4120 HLY	24-4120 DLY 69-1510 DLY 24-4120 HLY
MT	HIGHWOOD 7 NE	24-4133	47.6414	-110.6678	3600	0	0	59			24-4133 DLY
MT	HILGER	24-4143	47.2531	-109.3611	4080	32	53	58	24-4143 15M 54-0077 15M	24-4143 HLY 54-0077 15M 24-4143 15M	24-4143 HLY 54-0077 15M 24-4143 15M
MT	HINGHAM	24-4172	48.5500	-110.4333	3031	0	0	30			24-4172 DLY
MT	HINGHAM 12 N	24-4174	48.7261	-110.4561	2950	0	0	37			24-4174 DLY
MT	HINSDALE 4 SW	24-4180	48.3478	-107.1533	2805	0	0	50			24-4180 DLY
MT	HOBSON	24-4193	46.9997	-109.8703	4244	0	0	45			24-4193 DLY
MT	HOLTER DAM	24-4241	46.9908	-112.0117	3487	40	58	116	24-4241 15M 54-0078 15M	24-4241 HLY 54-0078 15M	24-4241 DLY
MT	HUNGRY HORSE DAM	24-4328	48.3425	-114.0217	3160	0	29	74		24-4328 HLY 87-3621 HLY	24-4328 DLY
MT	HUNTLEY EXP STN	24-4345	45.9228	-108.2453	3034	0	0	110			24-4345 DLY
MT	HYSHAM	24-4358	46.2897	-107.2306	2669	0	0	76			24-4358 DLY
MT	HYSHAM 25 SSE	24-4364	45.9353	-107.1375	3100	0	0	57			24-4364 DLY
MT	ILIAD	24-4368	47.8056	-109.8100	2965	0	33	50		24-4368 HLY	24-4368 DLY 24-4368 HLY
MT	INGOMAR 9 E	24-4386	46.5675	-107.1950	2800	0	0	66			24-4386 DLY
MT	JACKSON	24-4447	45.3681	-113.4089	6480	0	0	52			24-4447 DLY
MT	JOLIET	24-4506	45.4733	-109.0106	3838	0	0	68			24-4506 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	JOPLIN	24-4512	48.5594	-110.7719	3323	22	50	87	24-4512 15M 54-0080 15M	24-4512 HLY 54-0080 15M	24-4512 DLY 54-0080 15M
MT	JUDITH GAP	24-4538	46.6778	-109.7506	4630	0	0	65			24-4538 DLY 55-0119 HLY
MT	JUDITH GAP 13 E	24-4545	46.6103	-109.4736	4791	0	0	52			24-4545 DLY
MT	KALISPELL GLACIER AP	24-4558	48.3042	-114.2636	2957	0	71	74		24-4558 HLY 64-0333 HLY	24-4558 DLY
MT	KALISPELL	24-4563	48.1892	-114.3114	2940	0	0	90			24-4563 DLY 97-0002 DLY 69-1547 DLY
MT	KILA	24-4645	48.1167	-114.4667	3255	0	0	32			24-4645 DLY 69-1540 DLY
MT	KNOBS 4 SW	24-4715	45.8728	-104.1583	3086	0	0	71			24-4715 DLY
MT	KNOWLTON	24-4730	46.3000	-105.0000	3600	0	35	45		76-0244 HLY	24-4730 DLY 76-0244 HLY
MT	KREMLIN	24-4766	48.5217	-110.1075	2860	0	0	64			24-4766 DLY
MT	LAKEVIEW	24-4820	44.5994	-111.8125	6710	42	63	76	24-4820 15M 54-0081 15M	24-4820 HLY 54-0081 15M	24-4820 DLY 54-0081 15M
MT	LAME DEER	24-4839	45.6258	-106.6642	3300	0	0	54			24-4839 DLY
MT	LAUREL 3 WSW	24-4894	45.6667	-108.8167	3319	0	0	37			24-4894 DLY
MT	LAVINA	24-4904	46.2931	-108.9417	3434	27	59	63	24-4904 15M 54-0082 15M	24-4904 HLY 54-0082 15M	24-4904 HLY 54-0082 15M
MT	LENNEP 5 SW	24-4954	46.3614	-110.5997	5600	0	0	59			24-4954 DLY
MT	LEWISTOWN 11 SSE	24-4978	46.9058	-109.4114	4965	0	0	71			24-4978 DLY
MT	LIBBY DAM (BASE)	24-5011	48.4100	-115.3181	2110	0	0	54			24-5011 DLY 24-5009 DLY
MT	LIBBY 1 NE RS	24-5015	48.4036	-115.5392	2096	26	62	109	24-5015 15M	24-5015 HLY 76-0245 HLY	24-5015 DLY 76-0245 HLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	LIBBY 32 SSE	24-5020	47.9578	-115.2144	3440	0	0	64			24-5020 DLY
MT	LIMA	24-5030	44.6331	-112.5928	6279	23	55	92	24-5030 15M 54-0085 15M	24-5030 HLY 54-0085 15M	24-5030 DLY 54-0085 15M
MT	LINCOLN RS	24-5040	46.9558	-112.6547	4575	0	26	62		24-5040 HLY 76-0250 HLY	24-5040 DLY 76-0250 HLY 24-5040 HLY
MT	LINDBERGH LAKE	24-5043	47.4083	-113.7125	4320	0	0	61			24-5043 DLY
MT	LINDSAY	24-5045	47.2253	-105.1522	2693	0	0	75			24-5045 DLY
MT	LIVINGSTON	24-5076	45.6667	-110.5667	4491	0	0	87			24-5076 DLY 69-1662 DLY 69-1655 DLY
MT	LIVINGSTON 12 S	24-5080	45.4956	-110.5589	5044	0	0	70			24-5080 DLY
MT	LOLO HOT SPRINGS 2 NE	24-5146	46.7506	-114.5139	4055	28	28	42	24-5146 15M	24-5146 HLY	24-5146 DLY 24-5144 DLY 24-5146 HLY 24-5146 15M
MT	LOMA	24-5153	47.9364	-110.5025	2578	0	0	71			24-5153 DLY
MT	LONEPINE 1 WNW	24-5164	47.7167	-114.6500	2881	0	0	47			24-5164 DLY
MT	LONESOME LAKE	24-5177	48.2500	-110.2000	2762	0	0	33			24-5177 DLY
MT	LOWETH	24-5235	46.3667	-110.7000	5804	0	0	32			24-5235 DLY
MT	LUSTRE 4 NNW	24-5285	48.4500	-105.9333	2923	0	0	67			24-5285 DLY
MT	MACKENZIE	24-5303	46.1422	-104.7353	2810	0	0	72			24-5303 DLY
MT	MALTA	24-5337	48.3500	-107.8667	2260	0	0	90			24-5337 DLY 24-5334 DLY 54-0089 15M 24-5335 HLY
MT	MALTA 7 E	24-5338	48.3939	-107.7286	2231	0	22	49		87-1333 HLY	24-5338 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	MALTA 35 S	24-5340	47.8417	-107.9556	2615	0	0	59			24-5340 DLY
MT	MANHATTAN	24-5351	45.8667	-111.3333	4232	0	0	37			24-5351 DLY
MT	MARTINSDALE 3 NNW	24-5387	46.5000	-110.3378	4800	34	61	73	24-5387 15M	24-5387 HLY	24-5387 DLY
MT	MARYSVILLE 1 SW	24-5402	46.7500	-112.3000	5801	0	0	33			24-5402 DLY 24-5405 DLY
MT	MEDICINE LAKE 3 SE	24-5572	48.4828	-104.4514	1942	0	0	89			24-5572 DLY
MT	MELSTONE	24-5596	46.6008	-107.8706	2932	0	0	99			24-5596 DLY
MT	MELVILLE 4 W	24-5603	46.1047	-110.0500	5365	0	0	63			24-5603 DLY
MT	MENARD 3 NE	24-5608	45.9994	-111.1328	5053	0	0	56			24-5608 DLY
MT	MILDRED	24-5666	46.6833	-104.9500	2411	0	0	66			24-5666 DLY
MT	MILDRED 5 N	24-5668	46.7614	-104.9622	2482	0	0	42			24-5668 DLY
MT	MILES CITY	24-5685	46.4000	-105.8167	2362	0	20	97		24-5685 HLY	24-5685 DLY 52-3149 DLY 52-3148 DLY 24-5685 HLY
MT	MILLEGAN	24-5706	47.0206	-111.3700	4500	46	71	69	24-5706 15M 54-0093 15M	24-5706 HLY 54-0093 15M	24-5706 HLY 54-0093 15M
MT	MILLEGAN 14 SE	24-5712	46.8747	-111.1642	4970	0	0	48			24-5712 DLY 24-8936 DLY
MT	MISSOULA 2 NE	24-5735	46.8983	-113.9678	3420	0	0	57			24-5735 DLY 69-1637 DLY
MT	MIZPAH 4 NNW	24-5754	46.2858	-105.2919	2480	0	0	71			24-5754 DLY
MT	MOCCASIN EXP STN	24-5761	47.0572	-109.9511	4300	0	20	111		87-1493 HLY	24-5761 DLY 87-1493 HLY
MT	MOLT 6 SW	24-5791	45.7847	-108.9664	3990	24	55	63	24-5791 15M 54-0094 15M	24-5791 HLY 54-0094 15M	24-5791 DLY 54-0094 15M 24-5791 HLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	MONIDA	24-5811	44.5667	-112.3167	6785	0	0	36			24-5811 DLY
MT	MOORHEAD 9 NE	24-5870	45.1758	-105.7517	3220	0	0	58			24-5870 DLY
MT	MOSBY 4 ENE	24-5872	47.0219	-107.8225	2910	0	0	59			24-5872 DLY
MT	MYSTIC LAKE	24-5961	45.2436	-109.7311	6544	0	0	94			24-5961 DLY
MT	NEIHART 8 NNW	24-6008	47.0414	-110.7761	5230	27	34	47	24-6008 15M	24-6008 HLY	24-6008 DLY 24-6007 DLY 24-6008 HLY 24-6008 HLY
MT	NORRIS MADISON PWR HOUSE	24-6157	45.4875	-111.6336	4745	0	0	117			24-6157 DLY
MT	NYE #2	24-6190	45.4350	-109.8081	4840	0	0	50			24-6190 DLY
MT	OLNEY	24-6218	48.5497	-114.5739	3165	0	0	55			24-6218 DLY 76-0299 HLY
MT	OPHEIM 10 N	24-6236	48.9989	-106.3800	2878	0	0	63			24-6236 DLY
MT	OPHEIM 12 SSE	24-6238	48.6956	-106.3153	2936	0	0	78			24-6238 DLY
MT	OVANDO	24-6302	47.0189	-113.1314	4109	30	30	100	24-6302 15M	24-6302 15M	24-6302 DLY 24-6302 15M 24-6302 HLY
MT	OVANDO 9 SSE	24-6304	46.8819	-113.0564	4325	0	0	31			24-6304 DLY
MT	PENDROY 2 NNW	24-6426	48.1167	-112.3333	4365	0	0	47			24-6426 DLY
MT	PHILLIPSBURG RS	24-6472	46.3158	-113.3000	5270	29	39	104	24-6472 15M 54-0095 15M	76-0263 HLY 54-0095 15M 24-6472 15M	24-6472 DLY 24-6470 DLY 54-0095 15M 24-6472 15M 54-0095 15M

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	PLAINS RS	24-6562	47.4661	-114.8794	2490	30	58	90	24-6562 15M 54-0096 15M	24-6562 HLY 76-0266 HLY 54-0096 15M	24-6562 DLY 76-0266 HLY 54-0096 15M 24-6562 HLY
MT	PLEASANT VALLEY 5 SE	24-6580	48.1056	-114.8778	3540	19	43	82	24-6580 15M	24-6580 HLY	24-6580 DLY 24-6576 DLY 24-6580 HLY
MT	PLENTYWOOD	24-6586	48.7747	-104.5672	2048	0	0	72			24-6586 DLY 69-1715 DLY
MT	PLEVNA	24-6601	46.4178	-104.5164	2780	0	0	108			24-6601 DLY
MT	POLEBRIDGE	24-6615	48.7647	-114.2842	3520	30	60	80	24-6615 15M 24-6628 15M	24-6615 HLY 76-0268 HLY 24-6628 15M 24-6615 15M	24-6615 DLY 76-0268 HLY 24-6618 DLY 24-6615 15M
MT	POLSON	24-6635	47.6750	-114.1906	3010	0	0	94			24-6635 DLY
MT	SKQ DAM	24-6640	47.6775	-114.2419	2730	0	0	73			24-6640 DLY
MT	PONY	24-6655	45.6572	-111.8986	5590	0	0	37			24-6655 DLY
MT	POPLAR 2 E	24-6660	48.1333	-105.1500	2000	0	0	99			24-6660 DLY 52-6660 DLY
MT	PORT OF MORGAN	24-6672	48.9978	-107.8331	2830	0	0	61			24-6672 DLY 24-5191 DLY
MT	POTOMAC	24-6685	46.8767	-113.5625	3690	0	0	47			24-6685 DLY
MT	POWDERVILLE 8 NNE	24-6691	45.8525	-105.0350	2800	0	0	50			24-6691 DLY
MT	POWER 6 SE	24-6700	47.6544	-111.5981	3750	0	0	60			24-6700 DLY
MT	PRYOR	24-6747	45.4339	-108.5361	4057	0	0	58			24-6747 DLY
MT	RAPELJE	24-6862	45.9717	-109.2536	4068	0	0	113			24-6862 DLY
MT	RAYMOND BORDER STN	24-6893	48.9975	-104.5750	2345	0	0	62			24-6893 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	RAYNESFORD 2 NNW	24-6902	47.2972	-110.7456	4215	0	0	55			24-6902 DLY 24-6900 DLY
MT	RED LODGE	24-6918	45.1769	-109.2572	5646	0	0	119			24-6918 DLY
MT	REDSTONE	24-6927	48.8197	-104.9428	2106	0	0	56			24-6927 DLY
MT	REEDPOINT	24-6946	45.7061	-109.5400	3744	27	56	60	24-6946 15M 54-0099 15M	24-6946 HLY 54-0099 15M	24-6946 HLY 54-0099 15M
MT	RENOVA	24-6964	45.8167	-112.1500	4383	0	0	32			24-6964 DLY
MT	RIDGEWAY 1 S	24-7034	45.5022	-104.4478	3316	0	0	70			24-7034 DLY
MT	ROBERTS 1 W	24-7128	45.3572	-109.1883	4650	0	0	71			24-7128 DLY
MT	ROCK SPRINGS	24-7136	46.8203	-106.2453	3024	0	0	68			24-7136 DLY 24-1883 DLY
MT	ROCK SPRINGS 7 SE	24-7140	46.7833	-106.1333	3202	0	0	34			24-7140 DLY
MT	ROCKY BOY	24-7148	48.2500	-109.7833	3691	0	26	60		76-0277 HLY	24-7148 DLY 76-0277 HLY
MT	ROGERS PASS 9 NNE	24-7159	47.1900	-112.2900	4200	0	0	48			24-7159 DLY
MT	ROUND BUTTE 1 NNW	24-7204	47.5375	-114.2761	3100	26	46	51	24-7204 15M	24-7204 HLY	24-7204 HLY
MT	ROUNDUP	24-7214	46.4381	-108.5319	3200	0	0	96			24-7214 DLY 69-1625 DLY
MT	ROY 8 NE	24-7228	47.4869	-108.8372	3085	0	0	66			24-7228 DLY
MT	RUDYARD 27 N	24-7250	48.9375	-110.5661	3010	0	0	35			24-7250 DLY
MT	RUSSELL	24-7258	48.0686	-111.0661	3200	26	37	40	24-7258 15M 54-0100 15M	24-7258 HLY 54-0100 15M	24-7258 HLY 54-0100 15M
MT	RYEGATE	24-7261	46.2986	-109.2561	3650	0	0	27			24-7261 DLY 69-1576 DLY
MT	RYEGATE 18 NNW	24-7263	46.5333	-109.3442	4440	0	0	61			24-7263 DLY
MT	SACO 1 NNW	24-7265	48.4661	-107.3528	2185	0	0	54			24-7265 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	SAINT IGNATIUS	24-7286	47.3150	-114.0983	2915	0	30	115		87-4811 HLY	24-7286 DLY 87-4811 HLY
MT	ST MARY	24-7292	48.7386	-113.4294	4560	31	33	39	24-7292 15M 57-0020 15M	24-7292 HLY 76-0297 HLY 57-0020 15M	24-7292 DLY 57-0020 15M 54-0101 15M 53-0098 HLY 24-7292 HLY
MT	SAINT REGIS 1 NE	24-7318	47.3036	-115.0908	2660	22	37	54	24-7316 15M	24-7316 HLY 76-0298 HLY	24-7318 DLY 76-0298 HLY 24-7316 HLY 24-7314 DLY
MT	SAVAGE	24-7382	47.4536	-104.3378	1978	0	0	117			24-7382 DLY
MT	SCOBAY	24-7424	48.7833	-105.4167	2458	0	0	47			24-7424 DLY 99-7424 DLY
MT	SCOBAY 4 NW	24-7425	48.8356	-105.4747	2390	29	29	39	24-7425 15M 54-0102 15M	24-7425 15M 54-0102 15M	24-7425 DLY 54-0102 15M
MT	SEELEY LAKE RS	24-7448	47.2142	-113.5203	4100	27	52	82	24-7448 15M	24-7448 HLY	24-7448 DLY 69-1640 DLY
MT	SHELBY	24-7500	48.5133	-111.8550	3325	31	53	68	24-7500 15M 24-7501 15M 54-0103 15M	24-7500 HLY 24-7501 HLY 54-0103 15M	24-7500 DLY 24-7501 HLY 24-7501 DLY 24-7500 HLY
MT	SHONKIN 7 S	24-7540	47.5314	-110.5764	4300	0	0	61			24-7540 DLY
MT	SIDNEY	24-7560	47.7283	-104.1469	1933	0	0	83			24-7560 DLY 24-7562 DLY 62-0027 DLY
MT	SILVER LAKE	24-7605	46.1667	-113.2167	6483	0	0	44			24-7605 DLY 24-3434 DLY 24-3437 DLY
MT	SILVERSTAR	24-7610	45.6917	-112.2833	4585	26	53	65	24-7610 15M 54-0105 15M	24-7610 HLY 54-0105 15M	24-7610 HLY 54-0105 15M

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	SIMMS 1 NE	24-7618	47.4961	-111.9161	3558	0	0	35			24-7618 DLY 24-7618 HLY
MT	SIMPSON 6 N - WILDHORSE	24-7620	48.9981	-110.2158	2815	0	0	87			24-7620 DLY
MT	SONNETTE 7 SW	24-7740	45.3242	-105.9136	3914	0	0	54			24-7740 DLY
MT	SPRINGBROOK	24-7796	47.3838	-105.4797	2580	0	0	25			24-7796 DLY
MT	SPRINGDALE	24-7800	45.7383	-110.2242	4235	0	0	68			24-7800 DLY
MT	STANFORD	24-7864	47.1550	-110.2239	4275	0	0	91			24-7864 DLY 24-7858 DLY
MT	STEVENSVILLE	24-7894	46.5136	-114.0911	3375	28	31	111	24-7894 15M 54-0106 15M	76-0294 HLY 54-0106 15M 24-7894 15M	24-7894 DLY
MT	SULA 3 ENE	24-7964	45.8478	-113.9269	4475	0	0	65			24-7964 DLY 76-0300 HLY
MT	SUMMIT	24-7978	48.3161	-113.3542	5233	26	47	68	24-7978 15M	24-7978 HLY	24-7978 DLY 24-7978 HLY
MT	SUNBURST 8 E	24-7996	48.8869	-111.7275	3700	0	0	62			24-7996 DLY
MT	SUN RVR 4 S	24-8021	47.4772	-111.7375	3600	0	0	116			24-8021 DLY 52-8021 DLY 52-3195 DLY 24-3195 DLY
MT	SWAN LAKE	24-8087	47.9161	-113.8389	3100	25	48	60	24-8087 15M	24-8087 HLY	24-8087 DLY 24-8087 HLY
MT	SWEETGRASS	24-8093	48.9972	-111.9642	3510	0	0	51			24-8093 DLY 24-8093 HLY
MT	SWIFT DAM	24-8101	48.1639	-112.8669	4780	27	32	40	24-8101 15M	24-8101 HLY	24-8101 DLY 24-8101 HLY
MT	TERRY	24-8165	46.7939	-105.3022	2250	0	22	70		87-0403 HLY	24-8165 DLY 87-0403 HLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	TERRY 21 NNW	24-8169	47.0700	-105.4953	3142	28	66	78	24-8169 15M 54-0108 15M	24-8169 HLY 54-0108 15M	24-8169 DLY 54-0108 15M 24-8169 HLY 54-0108 15M
MT	THOENY 1 E	24-8202	48.8833	-106.8833	2461	0	36	48		76-0175 HLY	24-8202 DLY 76-0175 HLY
MT	THOMPSON FALLS PH	24-8211	47.5933	-115.3594	2380	0	22	112		76-0302 HLY	24-8211 DLY 24-8207 DLY
MT	TIBER DAM	24-8233	48.3103	-111.0878	2850	0	0	59			24-8233 DLY
MT	TOSTON 2 SW	24-8313	46.1500	-111.4833	3953	0	33	61		24-8313 HLY 87-2153 HLY	24-8313 DLY 87-2153 HLY 24-8314 DLY 24-8313 HLY
MT	TOWNSEND 3SE	24-8324	46.2989	-111.4525	3964	0	0	74			24-8324 DLY
MT	TOWNSEND 12 ENE	24-8329	46.3567	-111.2842	5050	32	55	63	24-8329 15M 54-0109 15M	24-8329 HLY 54-0109 15M	24-8329 HLY 54-0109 15M
MT	TRIDENT	24-8363	45.9467	-111.4758	4036	38	37	80	24-5122 15M 54-0088 15M	24-5122 15M 54-0088 15M	24-8363 DLY
MT	TROUT CREEK RS	24-8380	47.8669	-115.6278	2356	0	0	103			24-8380 DLY 24-8379 DLY 76-0187 HLY
MT	TROY	24-8390	48.4806	-115.9061	1929	0	20	64		76-0305 HLY	24-8390 DLY 24-8392 DLY
MT	TURNER	24-8413	48.8500	-108.4000	3046	0	0	50			24-8413 DLY
MT	TURNER 11N	24-8415	48.9992	-108.3894	2982	0	0	50			24-8415 DLY 71-0362 DLY
MT	TWIN BRIDGES	24-8430	45.5472	-112.3261	4625	0	0	69			24-8430 DLY
MT	UTICA	24-8493	46.9667	-110.0833	4705	0	0	30			24-8493 DLY 24-8493 HLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	VALENTINE	24-8498	47.3392	-108.4992	2905	0	0	57			24-8498 DLY
MT	VALIER	24-8501	48.3119	-112.2492	3807	0	0	101			24-8501 DLY
MT	VANANDA 6 NE	24-8511	46.4300	-106.9200	2625	26	55	62	24-8511 15M 54-0110 15M	24-8511 HLY 54-0110 15M	24-8511 DLY 54-0110 15M 24-8511 HLY
MT	VIDA 6 NE	24-8569	47.8800	-105.3686	2284	0	0	79			24-8569 DLY
MT	VIRGINIA CITY	24-8597	45.2925	-111.9478	5773	0	0	119			24-8597 DLY 52-8597 DLY
MT	VOLBORG	24-8607	45.8436	-105.6808	2980	0	0	70			24-8607 DLY
MT	WARRICK 2 NW	24-8693	48.0878	-109.6453	4250	0	0	36			24-8693 DLY 24-8691 DLY
MT	WEBSTER 3 E	24-8732	46.0558	-104.1853	3140	0	0	61			24-8732 DLY
MT	WESTBY	24-8777	48.8744	-104.0503	2103	22	50	79	24-8777 15M 54-0111 15M	24-8777 HLY 54-0111 15M	24-8777 DLY 54-0111 15M
MT	WESTERN AG RSCH CTR	24-8783	46.3283	-114.0847	3608	0	33	55		87-3021 HLY	24-8783 DLY 87-3021 HLY
MT	W GLACIER	24-8809	48.5003	-113.9847	3148	35	47	74	24-8809 15M	24-8809 HLY 76-0308 HLY	24-8809 DLY
MT	WHITEFISH	24-8902	48.4081	-114.3594	3100	0	0	81			24-8902 DLY 69-1542 DLY 24-8893 DLY
MT	WHITE SULPHUR SPRINGS	24-8927	46.5425	-110.9042	5160	0	32	106		24-8927 HLY 76-0317 HLY	24-8927 DLY 76-0317 HLY 24-8930 DLY 24-8927 HLY
MT	WHITEWATER	24-8939	48.7597	-107.6250	2328	0	0	67			24-8939 DLY
MT	WIBAUX 2 E	24-8957	46.9878	-104.1567	2696	0	0	90			24-8957 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	WILLSALL	24-9018	46.0000	-110.6667	5052	0	0	33			24-9018 DLY 69-1656 DLY 24-9018 HLY
MT	WILLSALL 8 ENE	24-9023	46.0306	-110.5056	5865	0	0	57			24-9023 DLY
MT	WINIFRED	24-9033	47.5597	-109.3767	3243	0	0	83			24-9033 DLY
MT	WINNETT 6NNE	24-9048	47.0831	-108.3164	2865	0	0	43			24-9048 DLY 24-9047 DLY
MT	WINNETT 8 ESE	24-9052	46.9389	-108.1967	2810	29	59	68	24-9052 15M 54-0114 15M	24-9052 HLY 54-0114 15M	24-9052 HLY 54-0114 15M
MT	WISDOM	24-9067	45.6178	-113.4514	6060	32	54	82	24-9067 15M	24-9067 HLY	24-9067 DLY
MT	WISE RVR 3 WNW	24-9082	45.8025	-112.9939	5730	0	0	72			24-9082 DLY
MT	WOLF PT	24-9103	48.1000	-105.6483	2090	0	0	45			24-9103 DLY 24-9103 HLY
MT	WYOLA 1 SW	24-9175	45.1217	-107.4061	3730	0	0	70			24-9175 DLY
MT	YELLOWTAIL DAM	24-9240	45.3128	-107.9383	3305	32	41	63	24-9240 15M 54-0115 15M	24-9240 HLY 54-0115 15M	24-9240 DLY 69-1476 DLY 54-0115 15M
MT	ZORTMAN	24-9900	47.9186	-108.5244	4035	30	43	58	24-9900 15M 54-0116 15M	24-9900 HLY 76-0323 HLY 54-0116 15M	24-9900 DLY 76-0323 HLY 24-9903 DLY 54-0116 15M
WY	AFTON	48-0027	42.7331	-110.9217	6248	0	0	105			48-0027 DLY 48-4095 DLY
WY	ALBIN	48-0080	41.4000	-104.1017	5345	0	0	61			48-0080 DLY
WY	ALTA 1 NNW	48-0140	43.7728	-111.0339	6440	0	0	96			48-0140 DLY
WY	ALVA 5 ESE	48-0200	44.6522	-104.3492	4390	0	0	38			48-0200 DLY
WY	ARCHER	48-0270	41.1517	-104.6575	6010	0	0	85			48-0270 DLY 69-2404 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	BAGGS	48-0484	41.0383	-107.6578	6319	0	0	40			48-0484 DLY 69-2279 DLY
WY	BARNUM 1 N	48-0528	43.7000	-106.9167	5154	0	0	30			48-0528 DLY 48-0528 HLY
WY	BASIN	48-0540	44.3797	-108.0350	3840	0	0	99			48-0540 DLY
WY	BATES CREEK #2	48-0552	42.6233	-106.3567	6042	0	0	53			48-0552 DLY
WY	BEDFORD 3 SE	48-0603	42.8731	-110.9069	6355	0	0	106			48-0603 DLY 48-0605 DLY
WY	BIG HORN	48-0680	44.6828	-107.0089	4208	0	0	44			48-0680 DLY 99-0680 DLY
WY	BIG PINEY	48-0695	42.5414	-110.1253	6835	25	50	65	48-0695 15M 54-0152 15M 48-0697 15M	48-0695 HLY 54-0152 15M 48-0697 15M	48-0695 DLY 54-0152 15M 48-0697 15M 48-0695 HLY
WY	BILLY CREEK	48-0740	44.1242	-106.7319	4975	0	0	50			48-0740 DLY
WY	BITTER CREEK 4 NE	48-0761	41.5897	-108.5094	6722	0	0	47			48-0761 DLY
WY	BLACK MTN	48-0778	43.6561	-107.7375	5635	0	0	54			48-0778 DLY
WY	BONDURANT	48-0865	43.2094	-110.4033	6693	0	23	69		76-0465 HLY	48-0865 DLY
WY	BORDER 3 N	48-0915	42.2128	-111.0456	6069	0	0	90			48-0915 DLY
WY	BOULDER REARING STN	48-0951	42.7156	-109.6894	6940	0	0	34			48-0951 DLY
WY	BOYSEN DAM	48-1000	43.4053	-108.1633	4875	42	65	73	48-1000 15M 54-0153 15M	48-1000 HLY 54-0153 15M	48-1000 DLY 48-1000 HLY
WY	BUFFALO	48-1165	44.3544	-106.6994	4639	35	57	84	48-1165 15M 54-0154 15M	48-1165 HLY 54-0154 15M	48-1165 DLY
WY	BUFFALO BILL DAM	48-1175	44.5075	-109.1675	5160	0	0	102			48-1175 DLY
WY	BURGESS JUNCTION	48-1220	44.7742	-107.5217	8060	0	0	57			48-1220 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	BURRIS	48-1284	43.3656	-109.2756	6125	0	0	53			48-1284 DLY
WY	CARPENTER 3N	48-1547	41.0844	-104.3789	5437	0	0	78			48-1547 DLY 69-2446 DLY 48-1550 DLY
WY	CASPER 1SW	48-1572	42.8519	-106.2844	5143	0	0	85			48-1572 DLY 99-1566 DLY 99-1565 DLY 48-1565 DLY 48-1569 DLY
WY	CENTENNIAL 1NE	48-1610	41.3136	-106.1292	8170	0	0	89			48-1610 DLY 69-2192 DLY
WY	CHUGWATER	48-1730	41.7594	-104.8222	5304	0	0	110			48-1730 DLY
WY	CHURCH BUTTES GAS PLT	48-1736	41.3975	-110.0883	7079	0	0	63			48-1736 DLY
WY	CLARK 4 SW	48-1770	44.9000	-109.2333	4534	0	0	35			48-1770 DLY
WY	CLARK 3NE	48-1775	44.9364	-109.1372	4117	0	0	61			48-1775 DLY
WY	CLEARMONT 5 SW	48-1816	44.5781	-106.4472	3995	0	0	73			48-1816 DLY
WY	CODY	48-1840	44.5147	-109.0450	5075	0	0	104			48-1840 DLY 69-2625 DLY 69-2621 DLY
WY	CODY 12SE	48-1850	44.4139	-108.9006	5248	0	0	51			48-1850 DLY
WY	CODY 21 SW	48-1855	44.3367	-109.3914	5840	0	0	43			48-1855 DLY
WY	COLONY	48-1905	44.8711	-104.1533	3480	0	0	93			48-1905 DLY
WY	CRANDALL CREEK	48-2135	44.8675	-109.6436	6509	0	0	49			48-2135 DLY
WY	CRESTON	48-2175	41.7333	-107.7333	7044	0	25	25		48-2175 HLY	48-2175 DLY 48-2175 HLY
WY	DANIEL FISH HATCHERY	48-2242	42.9281	-110.1272	7341	0	0	34			48-2242 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	DARWIN RCH	48-2375	43.4128	-110.1633	8190	0	0	48			48-2375 DLY
WY	DAYTON	48-2399	44.8767	-107.2631	3920	0	0	33			48-2399 DLY
WY	DEAVER	48-2415	44.8919	-108.5928	4105	0	0	87			48-2415 DLY
WY	DEVILS TWR #2	48-2466	44.5833	-104.7147	3862	0	0	75			48-2466 DLY 48-2465 DLY
WY	DILLINGER	48-2580	44.0992	-105.1175	4310	0	0	77			48-2580 DLY
WY	DIVERSION DAM	48-2595	43.2336	-108.9133	5578	0	0	80			48-2595 DLY
WY	DIXON	48-2610	41.0333	-107.5333	6365	0	0	54			48-2610 DLY
WY	DOUBLE FOUR RCH	48-2680	42.1794	-105.4017	6120	0	0	60			48-2680 DLY
WY	DOUGLAS 1 SE	48-2685	42.7467	-105.3603	4870	0	69	109		48-2685 HLY 72-3872 HLY 48-2693 HLY 48-2690 HLY	48-2685 DLY 79-0091 DLY 79-0019 DLY
WY	DOUGLAS 17NE	48-2696	42.9533	-105.1650	4930	33	50	64	48-2696 15M 54-0156 15M	48-2696 HLY 54-0156 15M	48-2696 DLY 48-2696 HLY 54-0156 15M
WY	DUBOIS	48-2715	43.5397	-109.6553	6955	35	53	91	48-2715 15M 54-0157 15M	48-2715 HLY 54-0157 15M	48-2715 DLY
WY	DULL CTR 1SE	48-2725	43.4117	-104.9614	4415	0	52	90		48-2725 HLY 54-0158 15M	48-2725 DLY
WY	ECHETA 2 NW	48-2881	44.4828	-105.8992	4000	0	0	54			48-2881 DLY
WY	ELK MTN	48-2995	41.6878	-106.4136	7265	0	0	115			48-2995 DLY 99-2995 DLY 69-2284 DLY
WY	EMBLEM	48-3031	44.4972	-108.3906	4448	0	0	77			48-3031 DLY 48-3031 HLY 48-3031 HLY
WY	ENCAMPMENT 10 ESE	48-3045	41.1833	-106.6167	7385	0	0	50			48-3045 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	ENCAMPMENT	48-3050	41.2058	-106.7883	7290	31	51	55	48-3050 15M 54-0159 15M	48-3050 HLY 54-0159 15M	48-3050 HLY 54-0159 15M
WY	EVANSTON 1 E	48-3100	41.2650	-110.9508	6825	23	47	118	48-3100 15M	48-3100 HLY	48-3100 DLY
WY	FARSON 2NNE	48-3170	42.1397	-109.4308	6620	0	0	81			48-3170 DLY
WY	FONTENELLE DAM	48-3396	41.9861	-110.0611	6485	0	0	58			48-3396 DLY
WY	FT LARAMIE 11 NNW	48-3490	42.3833	-104.5333	4764	0	0	51			48-3490 DLY 99-3490 DLY
WY	FT WASHAKIE 1 SE	48-3570	42.9833	-108.8667	5554	0	0	40			48-3570 DLY
WY	FOSSIL BUTTE	48-3582	41.8369	-110.7706	6785	0	0	31			48-3582 DLY
WY	FOXPARK	48-3630	41.0833	-106.1500	9067	0	0	50			48-3630 DLY
WY	GAS HILLS 4E	48-3801	42.8394	-107.5133	6470	0	0	37			48-3801 DLY
WY	GILLETTE 4SE	48-3855	44.2667	-105.4489	4640	0	0	108			48-3855 DLY
WY	GILLETTE 18 SW	48-3865	44.0833	-105.7167	4905	0	23	36		48-3865 HLY	48-3865 DLY
WY	GLENDO RSVR USBR	48-3944	42.4689	-104.9658	4780	0	23	26		87-2304 HLY	48-3944 DLY 87-2304 HLY
WY	GLENROCK 5 ESE	48-3950	42.8267	-105.7878	4948	0	0	61			48-3950 DLY
WY	GLENROCK 14 SSE	48-3960	42.6667	-105.8167	6434	0	0	36			48-3960 DLY
WY	GRASS CREEK	48-4036	43.9500	-108.6500	5579	0	0	33			48-4036 DLY
WY	GREEN RVR	48-4065	41.5167	-109.4703	6160	0	0	108			48-4065 DLY
WY	GREYBULL	48-4080	44.4894	-108.0536	3787	0	0	57			48-4080 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	GUERNSEY DAM #2	48-4126	42.2906	-104.7625	4355	0	30	75		87-1014 HLY	48-4126 DLY 87-1014 HLY 48-4125 DLY 54-0160 15M 48-4126 15M 48-4131 DLY
WY	HAT CREEK 5 E	48-4303	42.9333	-104.3167	4380	0	0	32			48-4303 DLY 48-4300 DLY
WY	HAT CREEK 14 N	48-4310	43.1333	-104.3667	4324	0	28	31		48-4310 HLY 48-4310 15M	48-4310 DLY 48-4310 HLY
WY	HEART MTN	48-4411	44.7053	-108.9558	4790	0	0	59			48-4411 DLY
WY	HECLA 1E	48-4442	41.1500	-105.1667	6690	0	0	96			48-4442 DLY 48-4440 DLY
WY	HULETT	48-4760	44.6856	-104.6028	3758	0	0	56			48-4760 DLY
WY	JACKSON	48-4910	43.4864	-110.7617	6210	29	69	98	48-4910 15M	48-4910 HLY 87-3831 HLY	48-4910 DLY 87-3831 HLY 48-4910 HLY
WY	JEFFREY CITY	48-4925	42.4942	-107.8292	6319	0	0	44			48-4925 DLY
WY	JELM 2S	48-4930	41.0600	-106.0264	7580	37	60	61	48-4930 15M	48-4930 HLY 53-0158 HLY	48-4930 DLY 53-0158 HLY 48-4930 HLY
WY	KAYCEE	48-5055	43.7144	-106.6378	4660	0	0	75			48-5055 DLY
WY	KAYCEE 17 WNW	48-5060	43.7667	-106.9667	5663	0	0	10			48-5060 DLY 69-2384 DLY
WY	KEELINE 3 W	48-5085	42.7667	-104.7833	5280	0	0	33			48-5085 DLY
WY	KEMMERER 2N	48-5105	41.8181	-110.5333	6937	0	0	79			48-5105 DLY
WY	KENDALL	48-5115	43.1667	-109.9833	7654	0	0	52			48-5115 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	LUSK 18 ENE	48-5170	42.8333	-104.1167	5072	0	0	60			48-5170 DLY 99-5170 DLY 48-5832 DLY
WY	LA BARGE	48-5252	42.2644	-110.1950	6598	0	0	48			48-5252 DLY 90-0024 DLY
WY	LA GRANGE	48-5260	41.6378	-104.1669	4590	0	0	61			48-5260 DLY
WY	LAKE YELLOWSTONE	48-5345	44.5622	-110.3986	7892	23	48	103	48-5345 15M 54-0163 15M	48-5345 HLY 54-0163 15M	48-5345 DLY
WY	LAMAR RS	48-5355	44.8956	-110.2342	6575	0	0	55			48-5355 DLY
WY	LANCE CREEK 1W	48-5371	43.0389	-104.6633	4412	22	50	60	48-5371 15M	48-5371 HLY	48-5371 DLY 48-5371 HLY
WY	LARAMIE 2	48-5411	41.3167	-105.5833	7175	0	0	139			48-5411 DLY 48-5435 DLY 52-5411 DLY 52-5410 DLY 69-2171 DLY 69-2154 DLY 69-2149 DLY 48-5410 DLY
WY	LEITER 9N	48-5506	44.8500	-106.2889	4160	0	0	57			48-5506 DLY
WY	LEO 6 SW	48-5525	42.1953	-106.8556	6035	0	0	86			48-5525 DLY
WY	LINGLE 2WSW	48-5612	42.1297	-104.3900	4158	0	0	55			48-5612 DLY 90-0025 HLY 48-9880 DLY
WY	LITTLE MEDICINE 4 NNW	48-5685	42.4333	-106.0333	7346	0	11	13		48-5685 HLY	48-5685 DLY 48-5685 HLY
WY	LOST CABIN	48-5734	43.2833	-107.6333	5415	0	0	31			48-5734 DLY 48-5843 DLY
WY	LOVELL	48-5770	44.8378	-108.4039	3847	0	0	97			48-5770 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	LUSK 2 SW	48-5830	42.7506	-104.4811	5090	0	0	100			48-5830 DLY 69-2548 DLY
WY	LYMAN	48-5839	41.3156	-110.2725	6652	0	0	24			48-5839 DLY 99-5836 DLY 48-5836 HLY 90-0027 DLY
WY	MEDICINE BOW	48-6120	41.8969	-106.2061	6635	21	44	64	48-6120 15M 54-0166 15M 48-6132 15M 54-0166 15M 48-6132 15M 54-0166 15M 48-6132 15M 48-6120 15M	48-6120 HLY 54-0166 15M 48-6132 15M 48-6120 15M 54-0166 15M 48-6132 15M 48-6120 15M 48-6120 HLY	48-6120 DLY 69-2270 DLY 54-0166 15M 48-6132 15M 48-6120 15M 48-6120 HLY
WY	MIDDLE FORK	48-6185	42.7526	-108.8054	6283	0	0	50			48-6185 DLY 99-6185 DLY 69-2316 DLY
WY	MIDWEST	48-6195	43.4131	-106.2772	4860	0	0	73			48-6195 DLY
WY	MOOSE	48-6428	43.6536	-110.7169	6444	0	0	85			48-6428 DLY 48-6430 DLY 69-2718 DLY
WY	MORAN 5WNW	48-6440	43.8567	-110.5889	6805	23	52	112	48-6440 15M	48-6440 HLY	48-6440 DLY
WY	MORRISEY	48-6450	43.5167	-104.3333	4104	0	0	30			48-6450 DLY
WY	MTN VIEW	48-6555	41.2658	-110.3375	6800	39	44	55	48-6555 15M 54-0168 15M	48-6555 HLY 54-0168 15M	48-6555 DLY 72-4574 HLY 54-0168 15M
WY	MUDDY GAP	48-6595	42.3628	-107.4444	6248	0	0	51			48-6595 DLY
WY	MUD SPRINGS	48-6597	41.3186	-108.9178	6736	30	48	53	48-6597 15M 54-0169 15M	48-6597 HLY 54-0169 15M 48-6597 15M 54-0169 15M	48-6597 HLY 54-0169 15M 48-6597 15M 54-0169 15M

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	MULE CREEK	48-6600	43.3500	-104.1167	4124	0	23	26		48-6600 HLY	48-6600 DLY 48-6600 HLY
WY	NEWCASTLE	48-6660	43.8497	-104.1886	4415	40	61	109	48-6660 15M 54-0170 15M	48-6660 HLY 54-0170 15M	48-6660 DLY 48-6660 HLY
WY	NINE MILE CREEK	48-6680	43.8167	-106.4833	4872	0	0	37			48-6680 DLY
WY	OLD FAITHFUL	48-6845	44.4569	-110.8328	7351	0	0	53			48-6845 DLY
WY	OLD FT LARAMIE	48-6852	42.2058	-104.5561	4250	0	0	64			48-6852 DLY 52-3485 DLY 69-2354 DLY 48-3485 DLY
WY	OREGON TRAIL CROSSING	48-6875	42.5394	-108.1872	6544	37	58	63	48-6875 15M 54-0171 15M	48-6875 HLY 54-0171 15M 54-0171 15M	48-6875 HLY 54-0171 15M 54-0171 15M
WY	OSAGE	48-6935	43.9781	-104.4194	4320	0	45	48		48-6935 HLY	48-6935 HLY
WY	PARKMAN 5 WNW	48-7079	44.9833	-107.4333	4436	0	0	34			48-7079 DLY
WY	PATHFINDER DAM	48-7105	42.4717	-106.8528	5923	23	61	103	48-7105 15M 54-0173 15M	48-7105 HLY 87-2404 HLY 54-0173 15M	48-7105 DLY 87-2404 HLY 54-0173 15M 48-7105 HLY
WY	PAVILLION	48-7115	43.2458	-108.6942	5480	0	0	88			48-7115 DLY
WY	PHILLIPS	48-7200	41.6264	-104.4936	4982	36	59	71	48-7200 15M 54-0174 15M	48-7200 HLY 54-0174 15M	48-7200 DLY 54-0174 15M 48-7200 HLY
WY	PINE BLUFFS	48-7235	41.1833	-104.0667	5074	12	14	90	48-7235 15M 54-0175 15M 48-7236 15M	48-7235 HLY 62-0069 HLY 54-0175 15M 48-7236 15M	48-7235 DLY 99-7235 DLY 62-0069 DLY 48-7236 DLY
WY	PINE BLUFFS 5W	48-7240	41.1722	-104.1583	5180	0	41	51		48-7240 HLY	48-7240 DLY 48-7240 HLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	PINEDALE	48-7260	42.8744	-109.8581	7210	0	0	65			48-7260 DLY
WY	PINE TREE 9 NE	48-7270	43.7167	-105.6333	5111	0	30	31		48-7270 HLY	48-7270 HLY
WY	POWDER RVR (SCHOOL)	48-7375	43.0353	-106.9894	5722	35	45	62	48-7375 15M 54-0176 15M	48-7375 HLY 54-0176 15M	48-7375 DLY 48-7376 DLY 54-0176 15M 48-7375 HLY
WY	POWELL FLD STN	48-7388	44.7764	-108.7592	4372	34	44	111	48-7388 15M 54-0177 15M	48-7388 HLY 54-0177 15M	48-7388 DLY 48-7380 DLY 48-7388 HLY
WY	RAIRDEN 2WSW	48-7473	44.1786	-107.9381	4020	0	0	71			48-7473 DLY
WY	RAWLINS	48-7530	41.7833	-107.2500	6854	0	0	38			48-7530 DLY 99-7533 DLY
WY	RECLUSE	48-7545	44.7408	-105.7261	4150	25	48	51	48-7545 15M	48-7545 HLY 48-7545 15M	48-7545 HLY 48-7545 15M
WY	REDBIRD	48-7555	43.2450	-104.2881	3890	0	0	81			48-7555 DLY 99-7555 DLY
WY	RIVERTON	48-7760	43.0306	-108.3744	4955	43	63	104	48-7760 15M 54-0180 15M	48-7760 HLY 48-7765 HLY 54-0180 15M	48-7760 DLY
WY	ROCHELLE 7ENE	48-7810	43.6450	-104.8414	4239	0	0	69			48-7810 DLY
WY	ROCK SPRINGS	48-7840	41.5833	-109.2167	6375	0	21	60		48-7840 HLY	48-7840 DLY 48-7847 DLY
WY	ROCKYPOINT 7NNE	48-7885	44.9917	-105.0472	3910	0	0	61			48-7885 DLY 24-7028 HLY 24-7028 DLY
WY	SAGE 4 NNW	48-7955	41.8667	-111.0000	6210	0	0	58			48-7955 DLY
WY	SARATOGA	48-7990	41.4528	-106.8053	6790	0	0	102			48-7990 DLY 99-7990 DLY 69-2278 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	SARATOGA 4N	48-7995	41.5047	-106.7889	6801	33	53	66	48-7995 15M 54-0183 15M	48-7995 HLY 54-0183 15M	48-7995 DLY 48-7995 HLY
WY	SEMINOE DAM	48-8070	42.1569	-106.9153	6838	22	62	69	48-8070 15M 54-0184 15M	48-8070 HLY 87-2465 HLY 54-0184 15M 48-8070 15M 54-0184 15M	48-8070 DLY 48-8074 DLY 54-0184 15M 48-8070 HLY
WY	SHELL	48-8124	44.5353	-107.7775	4242	0	0	49			48-8124 DLY
WY	SHERIDAN FLD STN	48-8160	44.8406	-106.8383	3750	0	0	98			48-8160 DLY
WY	SHIRLEY BASIN	48-8192	42.3703	-106.1050	7057	21	32	50	48-8192 15M 54-0185 15M	48-8192 HLY 54-0185 15M	48-8192 DLY 48-8192 HLY
WY	SHOSHONI	48-8209	43.2372	-108.1097	4837	0	0	76			48-8209 DLY
WY	SNAKE RVR	48-8315	44.1364	-110.6664	6882	0	18	90		86-0764 HLY	48-8315 DLY 80-0129 DLY
WY	SOUTH PASS CITY	48-8385	42.4667	-108.8000	7840	0	0	97			48-8385 DLY 61-0003 DLY 48-8410 DLY
WY	SPENCER 10 NE	48-8475	43.4333	-104.1667	3802	0	0	37			48-8475 DLY
WY	STORY	48-8626	44.5767	-106.9061	5168	33	56	67	48-8626 15M 54-0186 15M	48-8626 HLY 54-0186 15M	48-8626 DLY 48-8626 HLY
WY	SUNDANCE	48-8705	44.4122	-104.3567	4695	0	0	102			48-8705 DLY
WY	SUNSHINE 3 SW	48-8748	43.9897	-109.0504	6844	0	0	38			48-8748 DLY 48-7420 DLY
WY	SUNSHINE 3NE	48-8758	44.0758	-108.9547	6224	0	0	53			48-8758 DLY
WY	SYBILLE RSCH UNIT	48-8808	41.7644	-105.3750	6086	0	0	72			48-8808 DLY 48-6422 DLY
WY	TENNYSON	48-8845	41.3500	-104.3833	5616	0	0	34			48-8845 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	TENSLEEP 4NE	48-8852	44.0647	-107.3819	4748	33	61	72	48-8852 15M 54-0187 15M	48-8852 HLY 48-8855 HLY 54-0187 15M	48-8852 DLY 48-8855 HLY
WY	TENSLEEP 16SSE	48-8858	43.8111	-107.3653	4680	31	31	66	48-8858 15M 54-0188 15M	48-8858 15M 54-0188 15M	48-8858 DLY
WY	THERMOPOLIS	48-8875	43.6483	-108.2036	4321	28	52	110	48-8875 15M 54-0189 15M	48-8875 HLY 54-0189 15M	48-8875 DLY 48-8880 DLY 48-8875 HLY
WY	THERMOPOLIS 9NE	48-8884	43.7533	-108.1431	4282	0	0	32			48-8884 DLY
WY	THERMOPOLIS 21WNW	48-8888	43.7231	-108.6964	5510	26	46	61	48-8888 15M	48-8888 HLY	48-8888 DLY 48-8888 HLY
WY	TORRINGTON EXP FARM	48-8995	42.0803	-104.2236	4098	0	0	89			48-8995 DLY 69-2341 DLY
WY	TOWER FALLS	48-9025	44.9167	-110.4203	6275	0	0	73			48-9025 DLY
WY	UPTON	48-9205	44.0928	-104.6114	4320	0	0	82			48-9205 DLY
WY	UPTON 13 SW	48-9207	43.9269	-104.7456	4780	0	0	51			48-9207 DLY
WY	WAMSUTTER	48-9459	41.6717	-107.9783	6740	0	0	71			48-9459 DLY
WY	WAPITI 1WSW	48-9467	44.4594	-109.4164	5558	0	27	32		87-1554 HLY	48-9467 DLY 87-1554 HLY
WY	WESTON 1 E	48-9580	44.6403	-105.3008	3738	0	0	68			48-9580 DLY
WY	WHALEN DAM USBR	48-9604	42.2494	-104.6281	4294	0	28	73		87-2474 HLY	48-9604 DLY 87-2474 HLY 99-9604 DLY
WY	WHEATLAND 4 N	48-9615	42.1106	-104.9492	4638	28	47	106	48-9615 15M 54-0192 15M	48-9615 HLY 54-0192 15M 48-9615 15M 54-0192 15M	48-9615 DLY
WY	WORLAND	48-9770	44.0114	-107.9683	4058	0	27	111		48-9770 HLY 54-0193 15M	48-9770 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	YELLOWSTONE PARK MAMMOTH	48-9905	44.9767	-110.6964	6195	0	0	130			48-9905 DLY 99-9905 DLY
WY	YODER 5 W	48-9925	41.9131	-104.3881	4330	0	0	76			48-9925 DLY
MT	FORT MISSOULA	52-5737	46.8428	-114.0617	3150	0	20	90		76-0255 HLY	52-5737 DLY 76-0255 HLY 97-0001 DLY
WY	LANDER 11 SSE	57-0009	42.6754	-108.6686	5773	15	17	17	57-0009 15M	57-0009 HLY	57-0009 DLY
WY	NEWCASTLE	61-0001	43.8730	-104.1917	4810	0	0	31			61-0001 DLY
MT	CLANCY	61-0026	46.4850	-112.0647	4751	0	0	31			61-0026 DLY
ID	LOWERWEATHER	65-0003	43.6885	-116.1699	3776	0	22	22		65-0003 HLY	65-0003 HLY
ID	TREELINE	65-0005	43.7302	-116.1401	5282	0	20	19		65-0005 HLY	65-0005 HLY
ID	BENTON DAM (1007891)	66-0001	48.3502	-116.8071	2641	0	28	71		10-0789 HLY	66-0001 DLY 10-0789 HLY
ID	KUNA 1.5 SSE	69-1272	43.4704	-116.4037	2742	0	0	73			69-1272 DLY 10-5038 DLY
ID	MOSCOW 7.3 ENE	69-1430	46.7762	-116.8570	3116	25	24	30	10-6148 15M	10-6148 15M	69-1430 DLY 10-6148 15M
MT	LODGE GRASS 4.5 N	69-1474	45.3796	-107.3778	3263	32	55	54	24-5106 15M 54-0087 15M	24-5106 HLY 54-0087 15M	69-1474 DLY 54-0087 15M 24-5106 HLY
MT	ISMAY 3.4 NE	69-1520	46.5396	-104.7518	2718	24	55	65	24-4442 15M 54-0079 15M	24-4442 HLY 54-0079 15M	69-1520 DLY 54-0079 15M 24-4442 HLY
MT	ROUNDUP 6.2 ENE	69-1613	46.4779	-108.4165	3148	0	23	42		24-2317 HLY	69-1613 DLY 24-2317 HLY
MT	ABSAROKEE 0.6 S	69-1725	45.5442	-109.3936	3955	28	28	35	24-0019 15M 54-0048 15M	24-0019 HLY 54-0048 15M	69-1725 DLY 54-0048 15M 24-0019 HLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	CHEYENNE 5.0 W	69-2470	41.1575	-104.8840	6195	0	0	30			69-2470 DLY 48-1680 DLY
WY	POWELL 3.9 ENE	69-2610	44.7825	-108.6879	4288	0	0	34			69-2610 DLY 48-3770 HLY
ID	ARCO	76-0029	43.6231	-113.3872	5380	0	33	36	76-0029 HLY		76-0029 HLY
ID	BRACE FLAT	76-0035	42.3497	-116.6900	4900	0	31	32	76-0035 HLY		76-0035 HLY
ID	BULL SPRING	76-0036	42.0800	-114.4847	5700	0	29	30	76-0036 HLY		76-0036 HLY
ID	CRYSTAL	76-0049	42.9900	-113.1600	5064	0	32	34	76-0049 HLY		76-0049 HLY
ID	BULL CANYON	76-0053	42.3653	-112.7056	6400	0	30	31	76-0053 HLY		76-0053 HLY
ID	DEER HAVEN	76-0054	43.1744	-115.1517	5550	0	31	32	76-0054 HLY		76-0054 HLY
ID	FISH HOOK	76-0061	47.1352	-115.8766	4270	0	19	19	76-0061 HLY		76-0061 HLY
ID	FLINT CREEK	76-0063	42.0689	-112.1906	5200	0	25	27	76-0063 HLY		76-0063 HLY
ID	GAS CAVES	76-0065	44.1678	-111.7792	5740	0	31	31	76-0065 HLY		76-0065 HLY
ID	GOOSE CREEK	76-0067	42.0950	-113.8958	5660	0	32	31	76-0067 HLY		76-0067 HLY
ID	GRACE	76-0068	42.5372	-111.8547	6210	0	35	35	76-0068 HLY		76-0068 HLY
ID	INDIANOLA	76-0076	45.4007	-114.1634	3500	0	30	29	76-0076 HLY		76-0076 HLY
ID	POLE CREEK	76-0108	42.0694	-115.7861	5660	0	31	31	76-0108 HLY		76-0108 HLY
ID	PITTSBURG LANDING	76-0113	45.6375	-116.4686	1357	0	22	22	76-0113 HLY		76-0113 HLY
ID	POTTER BUTTE	76-0114	43.2261	-113.5744	4930	0	32	31	76-0114 HLY		76-0114 HLY
ID	RAFT RIVER	76-0120	42.5478	-113.2594	4400	0	35	35	76-0120 HLY		76-0120 HLY
ID	ROCK LAKE	76-0123	42.9717	-114.0631	4260	0	31	30	76-0123 HLY		76-0123 HLY
ID	SALMON	76-0128	45.1500	-113.9333	4960	0	36	36	76-0128 HLY		76-0128 HLY
ID	SNAKE RIVER	76-0144	45.0997	-116.7369	4100	0	29	29	76-0144 HLY		76-0144 HLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
ID	TEA POT	76-0150	44.9044	-115.7375	5152	0	26	27		76-0150 HLY	76-0150 HLY
ID	TRAIL GULCH	76-0153	42.3161	-114.3031	6000	0	34	35		76-0153 HLY	76-0153 HLY
ID	WEISER RIVER	76-0157	44.8475	-116.4267	3835	0	24	22		76-0157 HLY	76-0157 HLY
MT	ARMELLS CREEK	76-0163	47.5867	-108.8694	2845	0	30	30		76-0163 HLY	76-0163 HLY
MT	BADGER PEAK	76-0167	45.6481	-106.5008	4340	0	32	32		76-0167 HLY	76-0167 HLY
MT	BIGHORN MOUNTAIN	76-0173	45.0733	-107.8887	8180	0	24	26		76-0173 HLY	76-0173 HLY
MT	BRADSHAW CREEK	76-0177	45.0553	-105.9483	3930	0	30	30		76-0177 HLY	76-0177 HLY
MT	BIG SHEEP MOUNTAIN	76-0182	47.0167	-105.8167	3200	0	36	36		76-0182 HLY	76-0182 HLY
MT	CANNONBALL CREEK	76-0186	46.4847	-104.0658	2930	0	32	32		76-0186 HLY	76-0186 HLY
MT	CHAIN BUTTES	76-0188	47.5167	-108.0333	2928	0	28	28		76-0188 HLY	76-0188 HLY
MT	DRY BLOOD CREEK	76-0203	47.2442	-108.3575	3000	0	23	24		76-0203 HLY	76-0203 HLY
MT	FORT HOWES	76-0215	45.2969	-106.1614	3380	0	33	34		76-0215 HLY	76-0215 HLY
MT	FORT BELKNAP	76-0216	48.3042	-108.7189	2665	0	28	28		76-0216 HLY	76-0216 HLY
MT	GINGER	76-0222	46.3292	-111.5881	4370	0	28	28		76-0222 HLY	76-0222 HLY
MT	GLEASON	76-0224	47.8678	-112.6681	5200	0	20	20		76-0224 HLY	76-0224 HLY
MT	HOT SPRINGS	76-0235	47.6156	-114.6694	2960	0	30	30		76-0235 HLY	76-0235 HLY
MT	JETTE	76-0239	47.7669	-114.2347	3600	0	27	27		76-0239 HLY	76-0239 HLY
MT	KING COULEE	76-0243	47.7981	-107.0233	2760	0	32	32		76-0243 HLY	76-0243 HLY
MT	LITTLE SNOWY	76-0248	46.7511	-109.0233	4975	0	21	21		76-0248 HLY	76-0248 HLY
MT	LITTLE BULLWACKER CREEK	76-0249	47.8314	-109.0083	3100	0	35	36		76-0249 HLY	76-0249 HLY
MT	MANNING CORRAL DOGTOWN	76-0253	47.7028	-108.4786	3080	0	24	24		76-0253 HLY	76-0253 HLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	NINE MILE	76-0257	47.0708	-114.4022	3300	0	21	21		76-0257 HLY	76-0257 HLY
MT	PINE HILL	76-0264	46.7769	-104.5797	2649	0	22	22		76-0264 HLY	76-0264 HLY
MT	POPLAR	76-0270	48.1269	-105.0731	2423	0	28	29		76-0270 HLY	76-0270 HLY
MT	PRYOR MOUNTAIN	76-0275	45.3375	-108.4908	6186	0	27	29		76-0275 HLY	76-0275 HLY
MT	SOUTH BRIDGER	76-0280	45.1994	-108.7919	4725	0	17	18		76-0280 HLY	76-0280 HLY
MT	SOUTH SAWMILL CREEK	76-0292	47.5619	-107.5286	3290	0	36	36		76-0292 HLY	76-0292 HLY
MT	WEST FORK	76-0307	45.8156	-114.2585	4420	0	20	20		76-0307 HLY	76-0307 HLY
MT	WHITEHALL	76-0310	45.8833	-112.1500	4360	0	20	20		76-0310 HLY	76-0310 HLY
MT	WOLF MOUNTAIN	76-0316	45.3131	-107.1719	5217	0	38	38		76-0316 HLY	76-0316 HLY
WY	BEAR LODGE	76-0436	44.5972	-104.4275	5280	0	29	33		76-0436 HLY	76-0436 HLY
WY	DODGE CREEK	76-0449	41.9675	-105.5194	7100	0	33	33		76-0449 HLY	76-0449 HLY
WY	ESTERBROOK	76-0455	42.4153	-105.3611	6530	0	33	32		76-0455 HLY	76-0455 HLY
WY	HALF MOON	76-0463	42.9147	-109.7472	8530	0	23	24		76-0463 HLY	76-0463 HLY
WY	MUDDY CREEK	76-0473	41.4000	-110.5528	6970	0	33	33		76-0473 HLY	76-0473 HLY
WY	POKER CREEK	76-0476	43.5614	-106.9669	6440	0	29	27		76-0476 HLY	76-0476 HLY
WY	ROCHELLE HILLS	76-0483	43.5506	-105.0922	5199	0	27	28		76-0483 HLY	76-0483 HLY
WY	SNOW SPRINGS CREEK	76-0494	41.4175	-109.0361	7550	0	33	33		76-0494 HLY	76-0494 HLY
WY	SPLIT ROCK CREEK	76-0496	43.5606	-107.3975	6000	0	32	33		76-0496 HLY	76-0496 HLY
ID	LOWELL THREE RIVERS	79-0002	46.1442	-115.5964	1480	0	20	26		55-0177 HLY 72-0483 HLY	79-0002 DLY 64-0207 DLY
ID	JEROME CO AP	79-0003	42.7267	-114.4564	4048	0	23	25		72-0477 HLY	79-0003 DLY
ID	CHALLIS AP	79-0006	44.5228	-114.2150	5033	0	23	25		55-0125 HLY 72-0478 HLY	79-0006 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	LEWISTOWN 42 WSW	79-0014	46.8847	-110.2894	5070	0	0	39			79-0014 DLY 24-8495 DLY
WY	CHEYENNE	79-0018	41.1519	-104.8061	6128	20	75	150	78-0017 15M 48-1676 15M	48-1675 HLY 55-0138 HLY	79-0018 DLY 98-0002 DLY
WY	LANDER HUNT FLD AP	79-0020	42.8153	-108.7261	5592	0	73	130		48-5390 HLY 64-0195 HLY	79-0020 DLY 98-0003 DLY 98-0020 DLY
WY	LARAMIE RGNL AP	79-0021	41.3119	-105.6747	7266	31	57	75	78-0034 15M 48-5420 15M 48-5416 15M	55-0141 HLY 48-5420 HLY 48-5416 HLY 48-5415 HLY	79-0021 DLY 48-5420 HLY 48-5416 HLY 48-5416 DLY
WY	ROCK SPRINGS AP	79-0022	41.5944	-109.0528	6741	31	45	75	48-7845 15M 78-0053 15M	48-7845 HLY 55-0164 HLY	79-0022 DLY 48-7845 HLY
WY	SHERIDAN CO AP	79-0024	44.7694	-106.9689	3945	0	73	118		48-8155 HLY 55-0203 HLY	79-0024 DLY 48-8163 DLY 98-0004 DLY 98-0024 DLY
MT	BILLINGS LOGAN INTL AP	79-0026	45.8069	-108.5422	3581	20	75	89	78-0004 15M	24-0807 HLY 55-0217 HLY	79-0026 DLY 98-0026 DLY
MT	HAVRE WB CITY	79-0027	48.5526	-109.6794	2493	0	0	69			79-0027 DLY 98-0027 DLY
MT	LEWISTOWN MUNI AP	79-0028	47.0492	-109.4578	4145	42	65	121	24-4983 15M 78-0040 15M 54-0083 15M	24-4983 HLY 55-0311 HLY 64-0276 HLY 54-0083 15M	79-0028 DLY
MT	MILES CITY F WILEY FLD	79-0029	46.4267	-105.8825	2624	0	36	86		24-5690 HLY 87-1404 HLY 55-0279 HLY 54-0092 15M	79-0029 DLY 54-0092 15M
MT	CUSTER	79-0030	46.1333	-107.5333	2743	0	22	27		24-2158 HLY	79-0030 DLY 24-2158 HLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	RAWLINS MUNI AP	79-0033	41.8056	-107.1997	6736	26	58	70	48-7533 15M 78-0054 15M	48-7533 HLY 55-0209 HLY 64-0189 HLY	79-0033 DLY
WY	RIVERTON	79-0034	43.0661	-108.4767	5568	0	26	27		55-0213 HLY 55-0171 HLY 72-3879 HLY	79-0034 DLY 55-0171 HLY 72-3879 HLY 55-0213 HLY
WY	WORLAND	79-0035	43.9658	-107.9508	4172	0	22	63		55-0205 HLY 78-0063 15M	79-0035 DLY
WY	MOORCROFT 3S	79-0036	44.2169	-104.9292	4325	25	37	69	48-6395 15M 54-0167 15M	48-6395 HLY 53-0163 HLY	79-0036 DLY 53-0163 HLY
WY	CASPER NATRONA CO AP	79-0037	42.8975	-106.4636	5338	0	75	75		48-1570 HLY 55-0152 HLY	79-0037 DLY
MT	MALMSTROM AFB	79-0040	47.5167	-111.1833	3472	0	0	55			79-0040 DLY 64-0329 DLY 64-0329 HLY 55-0259 HLY
ID	BOISE AIR TERMINAL	79-0048	43.5667	-116.2406	2814	0	75	83		10-1022 HLY 55-0229 HLY	79-0048 DLY
MT	BOZEMAN GALLATIN FLD	79-0049	45.7881	-111.1608	4427	0	56	82		24-0622 HLY 78-0011 15M 55-0225 HLY	79-0049 DLY 78-0011 15M
ID	BURLEY MUNI AP	79-0050	42.5417	-113.7661	4142	0	50	107		10-1303 HLY 10-1298 HLY 55-0189 HLY	79-0050 DLY 10-1288 DLY 10-1298 HLY 10-1298 DLY
MT	BUTTE BERT MOONEY AP	79-0051	45.9647	-112.5006	5506	0	25	125		24-1318 HLY 78-0008 15M 64-0327 HLY	79-0051 DLY 78-0008 15M
MT	CUT BANK MUNI AP	79-0053	48.6033	-112.3753	3838	27	58	114	24-2173 15M 78-0015 15M 54-0063 15M	24-2173 HLY 78-0015 15M 54-0063 15M	79-0053 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	DILLON AP	79-0054	45.2575	-112.5545	5200	20	54	75	24-2404 15M 78-0020 15M	24-2404 HLY 72-1523 HLY	79-0054 DLY
MT	DRUMMOND AVIATION	79-0055	46.6383	-113.1761	4000	26	49	80	24-2500 15M	24-2500 HLY 24-2511 HLY 64-0413 HLY	79-0055 DLY 24-2511 HLY 24-2511 DLY
ID	GOODING 2 S	79-0057	42.9167	-114.7167	3570	38	60	97	10-3677 15M 54-0023 15M	10-3677 HLY 10-3682 HLY 54-0023 15M	79-0057 DLY 10-3682 HLY 54-0023 15M 10-3677 HLY
MT	GREAT FALLS INTL AP	79-0058	47.4733	-111.3822	3664	20	74	86	78-0028 15M 54-0075 15M 24-3753 15M	24-3751 HLY 72-1527 HLY	79-0058 DLY
MT	HELENA RGNL AP	79-0059	46.6056	-111.9636	3828	18	74	94	78-0029 15M	24-4055 HLY 78-0029 15M 55-0252 HLY	79-0059 DLY 24-2634 DLY 78-0029 15M
ID	IDAHO FALLS FANNING FLD	79-0060	43.5164	-112.0672	4729	0	34	70		55-0178 HLY 10-4455 HLY 78-0031 15M 10-4457 HLY	79-0060 DLY 78-0031 15M
ID	LEWISTON NEZ PERCE CO AP	79-0062	46.3747	-117.0156	1436	20	70	135	78-0039 15M	10-5241 HLY 55-0265 HLY	79-0062 DLY 52-5230 DLY 52-5236 DLY 98-5230 DLY 10-5230 DLY 10-5236 DLY
MT	LIVINGSTON MISSION FLD	79-0063	45.6983	-110.4408	4643	28	67	81	24-5086 15M 54-0086 15M 24-5088 15M 78-0038 15M	24-5086 HLY 72-1531 HLY	79-0063 DLY 72-1531 HLY 24-5086 HLY
ID	MALAD CITY	79-0064	42.1492	-112.2872	4470	0	0	68			79-0064 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	MISSOULA INTL AP	79-0065	46.9208	-114.0925	3192	0	75	78		64-0324 HLY 55-0254 HLY 24-5745 HLY	79-0065 DLY 24-5740 DLY
ID	MULLAN PASS VOR/DME	79-0066	47.4569	-115.6450	6028	0	27	42		55-0233 HLY 10-6237 HLY 72-1533 HLY	79-0066 DLY 55-0233 HLY
ID	POCATELLO RGNL AP	79-0067	42.9203	-112.5711	4478	0	75	84		10-7211 HLY 64-0205 HLY	79-0067 DLY
ID	STREVELL	79-0069	42.0167	-113.2500	5280	0	0	35			79-0069 DLY
MT	SUPERIOR	79-0070	47.1928	-114.8903	2710	0	0	98			79-0070 DLY
WY	BIG PINEY MARBLETON AP	79-0073	42.5844	-110.1075	6970	0	24	25		55-0212 HLY 72-3867 HLY	79-0073 DLY 72-3867 HLY 55-0212 HLY
MT	GLASGOW INTL AP	79-0077	48.2138	-106.6213	2285	0	64	123		24-3558 HLY 72-1526 HLY 24-3557 HLY 64-0312 HLY	79-0077 DLY 24-3557 DLY
MT	ST MARIE	79-0078	48.4089	-106.5144	2756	0	0	34			79-0078 DLY
MT	HAVRE CITY CO AP	79-0079	48.5428	-109.7633	2585	26	60	62	24-3996 15M 78-0030 15M	24-3996 HLY 55-0261 HLY	79-0079 DLY
MT	WOLF POINT INTL AP	79-0081	48.0944	-105.5744	1986	0	23	55		72-1536 HLY	79-0081 DLY 24-9111 DLY
WY	GILLETTE CAMPBELL AP	79-0082	44.3394	-105.5419	4354	0	22	24		55-0201 HLY 72-3874 HLY	79-0082 DLY
MT	JORDAN AP	79-0087	47.3258	-106.9475	2662	0	0	100			79-0087 DLY 24-4522 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	TORRINGTON MUNI AP	79-0088	42.0647	-104.1528	4205	0	56	57		55-0170 HLY 88-2018 HLY 48-9000 HLY 78-0060 15M 72-3906 HLY	79-0088 DLY 88-2018 DLY 69-2343 DLY 48-9000 HLY 72-3906 HLY
WY	BUFFALO JOHNSON CO AP	79-0089	44.3814	-106.7211	4967	0	23	25		55-0202 HLY 72-3868 HLY	79-0089 DLY
MT	BAKER MUNI AP	79-0090	46.3583	-104.2500	2971	0	23	95		55-0221 HLY 72-1518 HLY	79-0090 DLY 24-0412 DLY
MT	HELENA WB CITY	79-0105	46.5833	-112.0333	4144	0	0	61			79-0105 DLY 52-4050 DLY 98-0105 DLY
ID	IDAHO FALLS 46 W	79-0110	43.5317	-112.9422	4938	26	48	73	89-0016 15M	10-4460 HLY 89-0016 15M	79-0110 DLY 89-0016 DLY
ID	TWIN FALLS SUN VLY RGNL AP	79-0115	42.4819	-114.4869	4151	0	23	26		55-0188 HLY 72-0490 HLY	79-0115 DLY 64-0222 DLY
ID	REXBURG MADISON CO AP	79-0117	43.8339	-111.8045	4858	0	24	25		55-0234 HLY 72-0485 HLY	79-0117 DLY 72-0485 HLY 55-0234 HLY
MT	NORTHEAST ENTRANCE	80-0116	45.0100	-110.0100	7350	0	0	45			80-0116 DLY
MT	WEST YELLOWSTONE	80-0179	44.6600	-111.0900	6700	26	32	96	24-8866 15M 54-0112 15M	24-8866 HLY 76-0230 HLY 54-0112 15M 53-0109 HLY	80-0179 DLY 24-8857 DLY 76-0230 HLY 54-0112 15M 53-0109 HLY 24-8866 HLY
ID	LITTLE SALMON CREEK	81-0001	43.2968	-116.8280	5167	0	32	32		81-0001 HLY	81-0001 HLY
ID	UPPER SALMON CREEK NEAR SALMON	81-0002	43.2669	-116.8499	5886	0	24	26		81-0002 HLY	81-0002 HLY
ID	SUMMIT RAINGAGE SITE	81-0004	43.2471	-116.7071	4206	0	51	52		81-0004 HLY	81-0004 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
ID	FLATS WEIR AND RAINGAGES AND M	81-0005	43.2286	-116.7375	3885	0	57	57		81-0005 HLY	81-0005 HLY
ID	REYNOLDS QUONSET	81-0006	43.2051	-116.7503	3937	0	57	57		81-0006 HLY	81-0006 DLY
ID	METEOROLOGY AND RAINGAGE SITE	81-0007	43.1785	-116.7910	5030	0	55	55		81-0007 HLY	81-0007 DLY
ID	NANCY GULCH METEOROLOGY AND RA	81-0008	43.1688	-116.7137	4639	0	39	40		81-0008 HLY	81-0008 HLY
ID	RAINGAGE SITE NEAR TOLLGATE WE	81-0009	43.1414	-116.7672	4790	0	57	56		81-0009 HLY	81-0009 HLY
ID	METEOROLOGY AND RAINGAGE SITE	81-0010	43.1286	-116.7966	5833	0	39	39		81-0010 HLY 81-0011 HLY	81-0010 DLY 81-0011 DLY
ID	LOWER SHEEP CREEK	81-0013	43.1400	-116.7336	5410	0	57	57		81-0013 HLY	81-0013 DLY
ID	UPPER SHEEP CREEK WEATHER SIT	81-0014	43.1221	-116.7232	6132	0	33	34		81-0014 HLY	81-0014 HLY
ID	CHRISTMAS MEADOWS METEOROLOGY	81-0017	43.1023	-116.8050	5951	0	57	57		81-0017 HLY	81-0017 HLY
ID	BREAKS METEOROLOGY AND RAINGA	81-0018	43.1068	-116.7739	5200	0	28	28		81-0018 HLY	81-0018 DLY
ID	RAINGAGE SITE ON DIVIDE BETWEE	81-0019	43.1052	-116.7387	6142	0	57	57		81-0019 HLY	81-0019 DLY
ID	RAINGAGE SITE NEAR DEMOCRAT HI	81-0020	43.0961	-116.7745	5426	0	57	57		81-0020 HLY	81-0020 HLY
ID	METEOROLOGY AND RAINGAGE SITE	81-0021	43.0792	-116.8273	7116	0	57	57		81-0021 HLY	81-0021 HLY
ID	BULL MEADOW METEOROLOGY AND RA	81-0023	43.0822	-116.7356	6568	0	57	57		81-0023 HLY	81-0023 HLY
ID	HEADWATERS OF WEST FORK REYNOL	81-0024	43.0665	-116.7945	6804	0	57	57		81-0024 HLY	81-0024 HLY
ID	ATLANTA SUMMIT	86-0306	43.7569	-115.2391	7580	0	0	43			86-0306 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	BADGER PASS	86-0307	48.1309	-113.0232	6900	0	0	43			86-0307 DLY
WY	BALD MTN.	86-0309	44.8007	-107.8444	9380	0	0	45			86-0309 DLY
MT	BANFIELD MOUNTAIN	86-0311	48.5712	-115.4457	5600	0	0	35			86-0311 DLY
ID	BANNER SUMMIT	86-0312	44.3034	-115.2345	7040	0	0	43			86-0312 DLY
MT	BARKER LAKES	86-0313	46.0971	-113.1304	8250	0	0	43			86-0313 DLY
WY	BASE CAMP	86-0314	43.9402	-110.4454	7060	0	0	43			86-0314 DLY
MT	BASIN CREEK	86-0315	45.7974	-112.5205	7180	0	0	43			86-0315 DLY
WY	BATTLE MOUNTAIN	86-0317	41.0541	-107.2661	7440	0	0	37			86-0317 DLY
MT	BEAGLE SPRINGS	86-0318	44.4715	-112.9819	8850	0	0	45			86-0318 DLY
ID	BEAR BASIN	86-0319	44.9522	-116.1429	5350	0	0	42			86-0319 DLY
ID	BEAR CANYON	86-0320	43.7437	-113.9380	7900	0	18	42		86-0320 HLY	86-0320 DLY
ID	BEAR MOUNTAIN	86-0323	48.3058	-116.0745	5400	0	16	42		86-0323 HLY	86-0323 DLY
ID	BEAR SADDLE	86-0324	44.6053	-116.9810	6180	0	17	42		86-0324 HLY	86-0324 DLY
WY	BEAR TRAP MEADOW	86-0325	43.8874	-107.0613	8200	0	0	43			86-0325 DLY
WY	BEARTOOTH LAKE	86-0326	44.9431	-109.5674	9360	0	0	43			86-0326 DLY
MT	BEAVER CREEK	86-0328	44.9497	-111.3585	7850	0	0	38			86-0328 DLY
ID	BIG CREEK SUMMIT	86-0338	44.6262	-115.7956	6560	0	0	42			86-0338 DLY
WY	BIG SANDY OPENING	86-0342	42.6458	-109.2597	9080	0	0	43			86-0342 DLY
MT	BISSON CREEK	86-0346	47.6839	-113.9990	4920	0	0	31			86-0346 DLY
MT	BLACK BEAR	86-0347	44.5083	-111.1280	8170	0	0	45			86-0347 DLY
MT	BLACK PINE	86-0349	46.4140	-113.4309	7210	0	0	45			86-0349 DLY
WY	BLACKWATER	86-0350	44.3767	-109.7933	9780	0	0	43			86-0350 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	BLIND BULL SUM	86-0353	42.9640	-110.6097	8650	0	15	43		86-0353 HLY	86-0353 DLY
MT	BLOODY DICK	86-0355	45.1651	-113.5010	7600	0	0	43			86-0355 DLY
WY	BONE SPRINGS DIV	86-0358	44.6789	-107.5811	9350	0	0	45			86-0358 DLY
ID	BOSTETTER R.S.	86-0359	42.1644	-114.1927	7500	0	0	42			86-0359 DLY
MT	BOULDER MOUNTAIN	86-0360	46.5596	-111.2897	7950	0	0	45			86-0360 DLY
MT	BOX CANYON	86-0363	45.2719	-110.2490	6670	0	0	45			86-0363 DLY
MT	BRACKETT CREEK	86-0365	45.8911	-110.9385	7320	0	10	29		86-0365 HLY	86-0365 DLY
WY	BROOKLYN LAKE	86-0367	41.3588	-106.2321	10240	0	0	43			86-0367 DLY
ID	BRUNDAGE RESERVOIR	86-0370	45.0432	-116.1325	6250	0	0	37			86-0370 DLY
WY	BURGESS JUNCTION	86-0377	44.7877	-107.5292	7880	0	0	43			86-0377 DLY
WY	BURROUGHS CREEK	86-0379	43.6973	-109.6702	8750	0	0	43			86-0379 DLY
MT	CALVERT CREEK	86-0381	45.8838	-113.3255	6430	0	0	44			86-0381 DLY
ID	CAMAS CREEK DIVIDE	86-0382	43.2655	-115.3453	5710	0	17	31		86-0382 HLY	86-0382 DLY
WY	CANYON	86-0384	44.7196	-110.5108	7870	0	0	52			86-0384 DLY 48-3995 DLY
MT	CARROT BASIN	86-0385	44.9619	-111.2940	9000	0	0	41			86-0385 DLY
WY	CASPER MTN.	86-0389	42.7339	-106.3186	7900	0	16	42		86-0389 HLY	86-0389 DLY
WY	CLOUD PEAK RESERVOIR	86-0402	44.4034	-107.0606	9860	0	0	44			86-0402 DLY
MT	CLOVER MEADOW	86-0403	45.0179	-111.8456	8600	0	0	45			86-0403 DLY
WY	COLD SPRINGS	86-0405	43.2768	-109.4458	9630	0	0	40			86-0405 DLY
MT	COLE CREEK	86-0407	45.1940	-109.3455	7850	0	0	45			86-0407 DLY
MT	COMBINATION	86-0410	46.4652	-113.3936	5600	0	0	44			86-0410 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
ID	COOL CREEK	86-0411	46.7636	-115.2953	6280	0	0	38			86-0411 DLY
MT	COPPER BOTTOM	86-0413	47.0568	-112.5950	5200	0	0	44			86-0413 DLY
MT	COPPER CAMP	86-0414	47.0816	-112.7296	6950	0	0	45			86-0414 DLY
WY	COTTONWOOD CREEK	86-0419	42.6459	-110.8148	7670	0	0	39			86-0419 DLY
ID	CRAB CREEK	86-0424	44.4370	-111.9938	6900	0	15	42	86-0424 HLY		86-0424 DLY
ID	CRATER MEADOWS	86-0425	46.5639	-115.2890	5960	0	0	39			86-0425 DLY
MT	CRYSTAL LAKE	86-0427	46.7894	-109.5120	6050	0	0	45			86-0427 DLY
MT	DALY CREEK	86-0433	46.1837	-113.8533	5780	0	0	43			86-0433 DLY
MT	DARKHORSE LAKE	86-0436	45.1737	-113.5845	8945	0	0	43			86-0436 DLY
MT	DEADMAN CREEK	86-0437	46.7928	-110.6755	6450	0	0	44			86-0437 DLY
ID	DEADWOOD SUMMIT	86-0439	44.5451	-115.5638	6860	0	0	42			86-0439 DLY
MT	DIVIDE	86-0448	44.7932	-112.0564	7800	0	0	45			86-0448 DLY
WY	DIVIDE PEAK	86-0449	41.3040	-107.1524	8880	0	0	43			86-0449 DLY
ID	DOLLARHIDE SUMMIT	86-0450	43.6025	-114.6742	8420	0	0	41			86-0450 DLY
WY	DOME LAKE	86-0451	44.5746	-107.2954	8880	0	0	65			86-0451 DLY 48-2638 DLY
MT	DUPUYER CREEK	86-0458	48.0634	-112.7573	5750	0	0	40			86-0458 DLY
WY	EAST RIM DIVIDE	86-0460	43.1310	-110.2023	7930	0	0	38			86-0460 DLY
ID	ELK BUTTE	86-0466	46.8400	-116.1223	5690	0	0	40			86-0466 DLY
WY	ELKHART PARK G.S.	86-0468	43.0066	-109.7589	9400	0	0	43			86-0468 DLY
MT	EMERY CREEK	86-0469	48.4341	-113.9372	4350	0	0	43			86-0469 DLY
ID	EMIGRANT SUMMIT	86-0471	42.3605	-111.5609	7390	0	17	43	86-0471 HLY		86-0471 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	EVENING STAR	86-0472	44.6526	-109.7842	9200	0	0	43			86-0472 DLY
MT	FISHER CREEK	86-0480	45.0624	-109.9449	9100	0	0	45			86-0480 DLY
MT	FLATTOP MTN.	86-0482	48.8022	-113.8571	6300	0	0	45			86-0482 DLY
ID	FRANKLIN BASIN	86-0484	42.0505	-111.6012	8140	0	0	43			86-0484 DLY
MT	FROHNER MEADOW	86-0487	46.4355	-112.1928	6480	0	0	55			86-0487 DLY 24-1686 DLY
ID	GALENA	86-0489	43.8772	-114.6725	7470	0	0	50			86-0489 DLY 10-3417 DLY
ID	GALENA SUMMIT	86-0490	43.8750	-114.7136	8780	0	16	41		86-0490 HLY	86-0490 DLY
ID	GARFIELD R.S.	86-0492	43.6104	-113.9308	6560	0	0	43			86-0492 DLY
ID	GIVEOUT	86-0493	42.4132	-111.1663	6930	0	16	41		86-0493 HLY	86-0493 DLY
ID	GRAHAM GUARD STA.	86-0496	43.9538	-115.2739	5690	0	0	43			86-0496 DLY
WY	GRANITE CREEK	86-0497	43.3430	-110.4350	6770	0	0	36			86-0497 DLY
WY	GRASSY LAKE	86-0499	44.1261	-110.8344	7265	0	0	43			86-0499 DLY
MT	GRAVE CREEK	86-0500	48.9145	-114.7666	4300	0	0	44			86-0500 DLY
WY	GRAVE SPRINGS	86-0501	43.4664	-107.2398	8550	0	0	31			86-0501 DLY
WY	GROS VENTRE SUMMIT	86-0506	43.3894	-110.1294	8750	0	0	41			86-0506 DLY
WY	HAMS FORK	86-0509	42.1460	-110.6783	7840	0	0	38			86-0509 DLY
MT	HAND CREEK	86-0510	48.3075	-114.8408	5035	0	0	43			86-0510 DLY
WY	HANSEN SAWMILL	86-0512	44.2560	-106.9798	8360	0	0	43			86-0512 DLY
MT	HAWKINS LAKE	86-0516	48.9723	-115.9534	6450	0	0	36			86-0516 DLY
ID	HEMLOCK BUTTE	86-0520	46.4811	-115.6336	5810	0	16	40		86-0520 HLY	86-0520 DLY
ID	HILTS CREEK	86-0524	44.0190	-113.4723	8000	0	18	42		86-0524 HLY	86-0524 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	HOBBS PARK	86-0525	42.8698	-109.0946	10100	0	0	45			86-0525 DLY
MT	HOODOO BASIN	86-0530	46.9751	-115.0349	6050	0	0	43			86-0530 DLY
ID	HOWELL CANYON	86-0534	42.3203	-113.6159	7980	0	19	42		86-0534 HLY	86-0534 DLY
ID	HUMBOLDT GULCH	86-0535	47.5318	-115.7764	4250	0	0	72			86-0535 DLY 10-1272 DLY
ID	HYNDMAN	86-0537	43.7108	-114.1589	7620	0	18	42		86-0537 HLY	86-0537 DLY
WY	INDIAN CREEK	86-0544	42.3002	-110.6775	9425	0	0	41			86-0544 DLY
ID	JACKSON PEAK	86-0550	44.0509	-115.4432	7070	0	21	42		86-0550 HLY	86-0550 DLY
WY	KELLEY R.S.	86-0554	42.2655	-110.8018	8180	0	17	42		86-0554 HLY	86-0554 DLY
WY	KENDALL R.S.	86-0555	43.2493	-110.0166	7740	0	0	38			86-0555 DLY
WY	KIRWIN	86-0560	43.8607	-109.3216	9550	0	0	43			86-0560 DLY
MT	KRAFT CREEK	86-0562	47.4275	-113.7751	4750	0	0	43			86-0562 DLY
MT	LAKEVIEW RIDGE	86-0568	44.5891	-111.8250	7400	0	0	45			86-0568 DLY
WY	LAPRELE CREEK	86-0571	42.4358	-105.8608	8375	0	0	42			86-0571 DLY
MT	LEMHI RIDGE	86-0576	44.9938	-113.4440	8100	0	0	44			86-0576 DLY
WY	LEWIS LAKE DIVIDE	86-0577	44.2086	-110.6663	7850	0	0	43			86-0577 DLY
MT	LICK CREEK	86-0578	45.5041	-110.9662	6860	0	0	45			86-0578 DLY
WY	LITTLE WARM	86-0585	43.5028	-109.7520	9370	0	0	45			86-0585 DLY
ID	LOLO PASS	86-0588	46.6345	-114.5807	5240	0	18	40		86-0588 HLY	86-0588 DLY
MT	LONE MOUNTAIN	86-0590	45.2741	-111.4269	8880	0	0	32			86-0590 DLY
ID	LOOKOUT	86-0594	47.4575	-115.7046	5190	0	0	42			86-0594 DLY
WY	LOOMIS PARK	86-0597	43.1739	-110.1401	8240	0	0	43			86-0597 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
ID	LOST LAKE	86-0600	47.0809	-115.9604	6110	0	0	42			86-0600 DLY
ID	LOST-WOOD DIVIDE	86-0601	43.8243	-114.2640	7900	0	0	42			86-0601 DLY
MT	LOWER TWIN	86-0603	45.5087	-111.9229	7900	0	0	43			86-0603 DLY
MT	LUBRECHT FLUME	86-0604	46.8829	-113.3223	4680	0	0	45			86-0604 DLY
MT	MADISON PLATEAU	86-0609	44.5862	-111.1163	7750	0	0	35			86-0609 DLY
ID	MAGIC MOUNTAIN	86-0610	42.1807	-114.2866	6880	0	0	43			86-0610 DLY
MT	MANY GLACIER	86-0613	48.7970	-113.6705	4900	0	0	47			86-0613 DLY 24-5361 DLY
WY	MARQUETTE	86-0616	44.3016	-109.2402	8760	0	0	42			86-0616 DLY
ID	MEADOW LAKE	86-0620	44.4366	-113.3182	9150	0	17	41		86-0620 HLY	86-0620 DLY
ID	MICA CREEK	86-0623	47.1505	-116.2664	4510	0	0	33			86-0623 DLY
WY	MIDDLE POWDER	86-0625	43.6273	-107.1814	7760	0	0	44			86-0625 DLY
ID	MILL CREEK SUMMIT	86-0627	44.4721	-114.4899	8800	0	0	40			86-0627 DLY
MT	MONUMENT PEAK	86-0635	45.2176	-110.2370	8850	0	0	43			86-0635 DLY
ID	MOONSHINE	86-0636	44.4147	-113.3981	7440	0	0	42			86-0636 DLY
ID	MORES CREEK SUMMIT	86-0637	43.9320	-115.6659	6100	0	0	41			86-0637 DLY
ID	MOOSE CREEK	86-0638	45.6701	-113.9531	6200	0	0	42			86-0638 DLY
ID	MORGAN CREEK	86-0639	44.8424	-114.2687	7600	0	0	42			86-0639 DLY
ID	MOSQUITO RIDGE	86-0645	48.0573	-116.2306	5260	0	0	42			86-0645 DLY
MT	MOSS PEAK	86-0646	47.6849	-113.9623	6780	0	9	38		86-0646 HLY	86-0646 DLY
MT	MOUNT LOCKHART	86-0649	47.9173	-112.8238	6400	0	0	45			86-0649 DLY
ID	MOUNTAIN MEADOWS	86-0650	45.6969	-115.2297	6320	0	0	43			86-0650 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
ID	MUD FLAT	86-0654	42.6004	-116.5592	5730	0	15	43		86-0654 HLY	86-0654 DLY
MT	MULE CREEK	86-0656	45.4096	-112.9593	8300	0	10	43		86-0656 HLY	86-0656 DLY
MT	N FK ELK CREEK	86-0657	46.8716	-113.2773	6250	0	0	44			86-0657 DLY
MT	NEZ PERCE CAMP	86-0662	45.7311	-114.4808	5650	0	0	43			86-0662 DLY
MT	NOISY BASIN	86-0664	48.1568	-113.9464	6040	0	0	45			86-0664 DLY
MT	NORTH FORK JOCKO	86-0667	47.2726	-113.7562	6330	0	0	33			86-0667 DLY
WY	NORTH FRENCH CREEK	86-0668	41.3308	-106.3755	10130	0	13	44		86-0668 HLY	86-0668 DLY
WY	OLD BATTLE	86-0673	41.1540	-106.9694	10000	0	0	43			86-0673 DLY
WY	OWL CREEK	86-0676	43.6587	-109.0099	8975	0	0	43			86-0676 DLY
ID	OXFORD SPRING	86-0677	42.2602	-112.1252	6740	0	15	43		86-0677 HLY	86-0677 DLY
WY	PARKER PEAK	86-0683	44.7340	-109.9148	9400	0	0	43			86-0683 DLY
WY	PHILLIPS BENCH	86-0689	43.5169	-110.9126	8200	0	0	42			86-0689 DLY
MT	PICKFOOT CREEK	86-0690	46.5798	-111.2683	6650	0	0	45			86-0690 DLY
MT	PIKE CREEK	86-0693	48.3031	-113.3287	5930	0	0	43			86-0693 DLY
ID	PINE CREEK PASS	86-0695	43.5700	-111.2116	6720	0	17	35		86-0695 HLY	86-0695 DLY
MT	PLACER BASIN	86-0696	45.4190	-110.0884	8830	0	0	43			86-0696 DLY
MT	PORCUPINE	86-0700	46.1119	-110.4696	6500	0	0	45			86-0700 DLY
WY	POWDER RIVER PASS	86-0703	44.1619	-107.1262	9480	0	0	45			86-0703 DLY
WY	RENO HILL	86-0716	42.5711	-106.0889	8400	0	0	41			86-0716 DLY
MT	ROCKER PEAK	86-0722	46.3561	-112.2618	8000	0	0	45			86-0722 DLY
MT	S FORK SHIELDS	86-0725	46.0896	-110.4336	8100	0	0	40			86-0725 DLY
MT	SADDLE MTN.	86-0727	45.6926	-113.9683	7940	0	0	45			86-0727 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	SALT RIVER SUMMIT	86-0730	42.5075	-110.9099	7640	0	0	42			86-0730 DLY
WY	SAND LAKE	86-0731	41.4626	-106.2811	10050	0	0	41			86-0731 DLY
WY	SANDSTONE RS	86-0732	41.1117	-107.1706	8150	0	0	38			86-0732 DLY
ID	SAVAGE PASS	86-0735	46.4663	-114.6333	6190	0	0	40			86-0735 DLY
ID	SCHWEITZER BASIN	86-0738	48.3743	-116.6392	6090	0	0	40			86-0738 DLY
ID	SECESH SUMMIT	86-0740	45.1885	-115.9715	6540	0	17	41		86-0740 HLY	86-0740 DLY
ID	SEDGWICK PEAK	86-0741	42.5250	-111.9564	7850	0	17	35		86-0741 HLY	86-0741 DLY
ID	SHANGHI SUMMIT	86-0747	46.5660	-115.7422	4600	0	15	38		86-0747 HLY	86-0747 DLY
ID	SHEEP MTN.	86-0749	43.2103	-111.6879	6650	0	0	40			86-0749 DLY
WY	SHELL CREEK	86-0751	44.5001	-107.4295	9580	0	0	45			86-0751 DLY
ID	SHERWIN	86-0752	46.9503	-116.3397	3200	0	0	40			86-0752 DLY
MT	SHORT CREEK	86-0753	44.9757	-111.9521	7000	0	0	36			86-0753 DLY
MT	SHOWER FALLS	86-0754	45.4012	-110.9576	8100	0	0	45			86-0754 DLY
MT	SKALKAHO SUMMIT	86-0760	46.2421	-113.7725	7250	0	0	43			86-0760 DLY
ID	SLUG CREEK DIVIDE	86-0761	42.5625	-111.2980	7225	0	0	43			86-0761 DLY
WY	SNIDER BASIN	86-0765	42.4949	-110.5320	8060	0	17	43		86-0765 HLY 76-0493 HLY	86-0765 DLY
ID	SOLDIER R.S.	86-0769	43.4841	-114.8269	5740	0	17	85		86-0769 HLY	86-0769 DLY 10-8548 DLY
ID	SOMSEN RANCH	86-0770	42.9528	-111.3593	6800	0	16	42		86-0770 HLY	86-0770 DLY
WY	SOUTH BRUSH CREEK	86-0772	41.3294	-106.5025	8440	0	0	43			86-0772 DLY
ID	SOUTH MTN.	86-0774	42.7648	-116.9004	6500	0	0	42			86-0774 DLY
WY	SOUTH PASS	86-0775	42.5732	-108.8432	9040	0	0	39			86-0775 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	SPRING CREEK DIVIDE	86-0779	42.5252	-110.6615	9000	0	0	42			86-0779 DLY
MT	SPUR PARK	86-0781	46.7796	-110.6217	8100	0	0	45			86-0781 DLY
ID	SQUAW FLAT	86-0782	44.7709	-116.2480	6240	0	0	42			86-0782 DLY
MT	SLEEPING WOMAN	86-0783	47.1790	-114.3337	6150	0	0	31			86-0783 DLY
WY	ST. LAWRENCE ALT	86-0786	43.0331	-109.1702	8620	0	0	40			86-0786 DLY
MT	STAHL PEAK	86-0787	48.9090	-114.8630	6030	0	0	45			86-0787 DLY
ID	STICKNEY MILL	86-0792	43.8612	-114.2090	7430	0	18	42	86-0792 HLY		86-0792 DLY
WY	SUCKER CREEK	86-0798	44.7225	-107.4003	8880	0	0	45			86-0798 DLY
ID	SUNSET	86-0803	47.5555	-115.8242	5540	0	0	41			86-0803 DLY
ID	SWEDE PEAK	86-0805	43.6260	-113.9689	7640	0	16	42	86-0805 HLY		86-0805 DLY
WY	SYLVAN LAKE	86-0806	44.4776	-110.1565	8420	0	12	43	86-0806 HLY		86-0806 DLY
WY	SYLVAN ROAD	86-0807	44.4782	-110.0381	7120	0	0	47			86-0807 DLY 48-2845 DLY 48-9902 DLY
MT	TEPEE CREEK	86-0813	44.7856	-111.7100	8000	0	0	45			86-0813 DLY
WY	THUMB DIVIDE	86-0816	44.3692	-110.5772	7980	0	0	36			86-0816 DLY
WY	TIMBER CREEK	86-0819	44.0274	-109.1788	7950	0	0	36			86-0819 DLY
WY	TOGWOTEE PASS	86-0822	43.7490	-110.0578	9580	0	0	42			86-0822 DLY
WY	TOWNSEND CREEK	86-0826	42.6953	-108.8957	8700	0	0	43			86-0826 DLY
ID	TRINITY MTN.	86-0830	43.6290	-115.4382	7770	0	15	43	86-0830 HLY		86-0830 DLY
WY	TRIPLE PEAK	86-0831	42.7639	-110.5914	8500	0	0	38			86-0831 DLY
MT	TWELVEMILE CREEK	86-0835	46.1429	-114.4475	5600	0	0	44			86-0835 DLY
MT	TWIN LAKES	86-0836	46.1438	-114.5056	6400	0	0	45			86-0836 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
WY	TWO OCEAN PLATEAU	86-0837	44.1518	-110.2212	9240	0	0	40			86-0837 DLY
ID	VIENNA MINE	86-0845	43.7994	-114.8527	8960	0	0	42			86-0845 DLY
MT	WALDRON	86-0847	47.9200	-112.7909	5600	0	0	45			86-0847 DLY
MT	WARM SPRINGS	86-0850	46.2737	-113.1640	7800	0	0	43			86-0850 DLY
WY	WEBBER SPRINGS	86-0852	41.1595	-106.9271	9250	0	0	42			86-0852 DLY
ID	WEST BRANCH	86-0855	45.0722	-116.4541	5560	0	0	42			86-0855 DLY
MT	WHISKEY CREEK	86-0858	44.6109	-111.1500	6800	0	0	44			86-0858 DLY
WY	WHISKEY PARK	86-0859	41.0029	-106.9085	8950	0	12	36		86-0859 HLY	86-0859 DLY
ID	WHITE ELEPHANT	86-0860	44.5327	-111.4109	7710	0	15	42		86-0860 HLY	86-0860 DLY
MT	WHITE MILL	86-0862	45.0457	-109.9099	8700	0	0	45			86-0862 DLY
ID	WILDHORSE DIVIDE	86-0867	42.7574	-112.4778	6490	0	15	41		86-0867 HLY	86-0867 DLY
WY	WILLOW CREEK	86-0868	42.8151	-110.8352	8080	0	0	41			86-0868 DLY
ID	WILSON CREEK	86-0871	42.0126	-115.0028	7120	0	15	33		86-0871 HLY	86-0871 DLY
WY	WINDY PEAK	86-0872	42.2802	-105.5782	7900	0	0	40			86-0872 DLY
WY	WOLVERINE	86-0875	44.8042	-109.6570	7650	0	0	43			86-0875 DLY
MT	WOOD CREEK	86-0876	47.4485	-112.8143	5960	0	0	45			86-0876 DLY
WY	YOUNTS PEAK	86-0878	43.9323	-109.8177	8350	0	0	41			86-0878 DLY
MT	TIZER BASIN	86-0893	46.3494	-111.8531	6880	0	0	34			86-0893 DLY
ID	CHOCOLATE GULCH	86-0895	43.7685	-114.4181	6310	0	18	30		86-0895 HLY	86-0895 DLY
MT	STUART MOUNTAIN	86-0901	46.9952	-113.9266	7400	0	0	29			86-0901 DLY
ID	SCHWARTZ LAKE	86-0915	44.8462	-113.8373	8630	0	15	28		86-0915 HLY	86-0915 DLY
MT	ALBRO LAKE	86-0916	45.5972	-111.9590	8300	0	0	27			86-0916 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	ROCKY BOY	86-0917	48.1748	-109.6473	4700	0	0	28			86-0917 DLY
MT	GARVER CREEK	86-0918	48.9752	-115.8192	4250	0	0	27			86-0918 DLY
MT	DAISY PEAK	86-0919	46.6686	-110.3302	7600	0	0	27			86-0919 DLY
ID	SMILEY MOUNTAIN	86-0926	43.7272	-113.8340	9520	0	19	22	86-0926 HLY		86-0926 DLY
MT	SACAJAWEA	86-0929	45.8740	-110.9278	6550	0	0	24			86-0929 DLY
MT	POORMAN CREEK	86-0932	48.1267	-115.6233	5100	0	0	23			86-0932 DLY
WY	GUNSIGHT PASS	86-0944	43.3833	-109.8782	9820	0	0	25			86-0944 DLY
ID	BOGUS BASIN	86-0978	43.7638	-116.0968	6340	0	22	24	86-0978 HLY		86-0978 DLY
ID	VAN WYCK	86-0979	44.3767	-116.3366	4920	0	19	21	86-0979 HLY		86-0979 DLY
ID	HIDDEN LAKE	86-0988	48.8937	-116.7575	5040	0	18	23	86-0988 HLY		86-0988 DLY
ID	MOSCOW MOUNTAIN	86-0989	46.8050	-116.8535	4700	0	16	23	86-0989 HLY		86-0989 DLY
WY	CROW CREEK	86-1045	41.2287	-105.3828	8330	0	16	20	86-1045 HLY		86-1045 DLY
ID	MYRTLE CREEK	86-1053	48.7226	-116.4631	3520	0	18	20	86-1053 HLY		86-1053 DLY
ID	RAGGED MOUNTAIN	86-1081	47.8558	-117.0367	4210	0	15	17	86-1081 HLY		86-1081 DLY
MT	BLACKFEET AGRIMET STATION NR S	87-0103	48.6753	-112.5889	3905	0	22	22	87-0103 HLY		87-0103 HLY
MT	BIG FLAT NEAR TURNER WEATHER S	87-0133	48.8356	-108.5636	3103	0	21	21	87-0133 HLY		87-0133 HLY
MT	BUFFALO RAPIDS WEATHER STATION	87-0373	46.9883	-104.8031	2140	0	22	22	87-0373 HLY		87-0373 HLY
MT	DILLON MONTANA WEATHER STATION	87-0743	45.3336	-112.5094	5000	0	24	24	87-0743 HLY		87-0743 HLY
MT	GLASGOW MONTANA WEATHER STATIO	87-0963	48.1467	-106.6006	2084	0	23	23	87-0963 HLY		87-0963 HLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
MT	HELENA VALLEY MONTANA WEATHER	87-1103	46.6756	-111.9892	3673	0	26	26		87-1103 HLY	87-1103 HLY
MT	JEFFERSON RVR VALLEY WEATHER S	87-1123	45.7978	-112.1653	4415	0	31	31		87-1123 HLY 24-8917 HLY	87-1123 HLY 24-8917 HLY
MT	LOWER MUSSELSHELL WEATHER STAT	87-1233	46.5628	-108.0058	2950	0	20	20		87-1233 HLY	87-1233 HLY
MT	SHIELDS VALLEY WEATHER STATION	87-2033	46.0467	-110.6533	5310	0	20	19		87-2033 HLY	87-2033 HLY
WY	SWEETWATER RIVER NR INDEPENDEN	87-2044	42.4925	-107.1381	5850	0	25	26		87-2044 HLY	87-2044 HLY
MT	TETON RIVER WEATHER STATION NE	87-2183	47.9006	-112.1597	3854	0	20	20		87-2183 HLY	87-2183 HLY
ID	DWORSHAK - DENT ACRES IDAHO A	87-3151	46.6233	-116.2206	1640	0	20	20		87-3151 HLY 76-0052 HLY	87-3151 HLY 76-0052 HLY
MT	DEER LODGE MONTANA AGRIMET WE	87-3211	46.3355	-112.7667	4680	0	23	24		87-3211 HLY	87-3211 HLY
ID	FORT HALL IDAHO AGRIMET WEATH	87-3351	43.0714	-112.4311	4445	0	28	28		87-3351 HLY	87-3351 HLY
ID	GLENNS FERRY IDAHO AGRIMET WE	87-3431	42.8667	-115.3569	3025	0	28	29		87-3431 HLY	87-3431 HLY
ID	NAMPA IDAHO AGRIMET WEATHER S	87-4321	43.4372	-116.6453	2702	0	22	23		87-4321 HLY	87-4321 HLY
ID	ORCHARD RANGE SITE	88-0674	43.3227	-115.9964	3200	0	0	30			88-0674 DLY
MT	TABLE MOUNTAIN	88-0808	45.8027	-111.5865	4474	0	0	42			88-0808 DLY 24-9008 15M 24-9008 HLY
ID	TERRETON	89-0007	43.8417	-112.4183	4792	23	23	22	89-0007 15M	89-0007 15M	89-0007 15M
ID	ROBERTS	89-0010	43.7435	-112.1211	4760	25	25	24	89-0010 15M	89-0010 15M	89-0010 15M

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						< 1Hr	Hourly	Daily	< 1Hr	Hourly	Daily
ID	MATERIALS AND FUELS COMPLEX	89-0017	43.5941	-112.6517	5143	26	26	26	89-0017 15M	89-0017 15M	89-0017 15M
ID	GRID 3/INTEC	89-0018	43.5897	-112.9399	4897	26	26	26	89-0018 15M	89-0018 15M	89-0018 15M
ID	RADIOACTIVE WASTE MANAGEMENT C	89-0023	43.5034	-113.0460	5025	26	26	26	89-0023 15M	89-0023 15M	89-0023 15M
ID	IDAHO FALLS	89-0024	43.5041	-112.0501	4709	23	23	21	89-0024 15M	89-0024 15M	89-0024 15M
ID	ATOMIC CITY	89-0025	43.4437	-112.8157	5058	21	21	21	89-0025 15M	89-0025 15M	89-0025 15M
ID	TABER	89-0028	43.3187	-112.6918	4730	26	26	26	89-0028 15M	89-0028 15M	89-0028 15M
ID	RICHFIELD	89-0031	43.0606	-114.1346	4315	24	24	24	89-0031 15M	89-0031 15M	89-0031 15M
ID	BOISE WB CITY	98-0001	43.6167	-116.2000	2713	0	0	75			98-0001 DLY 69-1274 DLY
WY	KNOWLES	99-5226	44.7500	-104.3667	4505	0	0	34			99-5226 DLY

Table A.1.2. Same as Table A.1.1, but for locations in Colorado (CO), Nebraska (NE), Nevada (NV), North Dakota (ND), Oregon (OR), South Dakota (SD), Utah (UT), Washington (WA), and the Canadian provinces of Alberta (AB), British Columbia (BC), and Saskatchewan (SK).

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
CO	ALLENSPARK 2SE	05-0183	40.1881	-105.5019	8215	27	49	73	05-0183 15M	05-0183 HLY	05-0183 DLY 69-0103 DLY 05-0183 HLY
CO	BOULDER 2	05-0843	40.0339	-105.2811	5415	41	64	72	05-0843 15M 54-0001 15M	05-0843 HLY 54-0001 15M	05-0843 DLY 69-0123 DLY 69-0098 DLY 54-0001 15M 05-0843 HLY
CO	BRIGGSDALE	05-0945	40.6344	-104.3286	4862	0	0	62			05-0945 DLY 05-0945 HLY
CO	BROWNS PARK REFUGE	05-1017	40.8008	-108.9172	5354	0	0	30			05-1017 DLY
CO	BUCKHORN MTN 1 E	05-1060	40.6158	-105.2969	7400	0	0	34			05-1060 DLY
CO	CRAIG 4SW	05-1932	40.4517	-107.5906	6496	0	0	31			05-1932 DLY
CO	DINOSAUR NM	05-2286	40.2442	-108.9725	5960	30	46	56	05-2286 15M 57-0007 15M 54-0003 15M	05-2286 HLY 57-0007 HLY 54-0003 15M	05-2286 DLY 57-0007 DLY 54-0003 15M 54-0003 15M
CO	ESTES PARK	05-2759	40.3767	-105.4858	7480	0	0	102			05-2759 DLY 69-0448 DLY
CO	FT COLLINS	05-3005	40.5764	-105.0858	5004	21	63	128	54-0004 15M	05-3005 HLY 54-0004 15M	05-3005 DLY
CO	FT COLLINS 4 E	05-3006	40.5756	-105.0236	4920	0	0	45			05-3006 DLY 64-0147 DLY
CO	FT LUPTON 2 SE	05-3027	40.0667	-104.7833	5023	0	0	80			05-3027 DLY 69-1120 DLY
CO	FT MORGAN	05-3038	40.2569	-103.87	4376	0	0	109			05-3038 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
CO	GRAND LAKE 1 NW	05-3496	40.2669	-105.8322	8720	0	0	94			05-3496 DLY
CO	GRAND LAKE 6 SSW	05-3500	40.185	-105.8667	8288	30	57	75	05-3500 15M 54-0005 15M	05-3500 HLY 54-0005 15M	05-3500 DLY
CO	GREELEY UNC	05-3553	40.4022	-104.6992	4715	27	58	125	05-3553 15M 05-3546 15M 54-0006 15M	05-3553 HLY 05-3546 HLY 54-0006 15M	05-3553 DLY 05-3546 HLY 05-3546 DLY
CO	GROVER 10 W	05-3643	40.85	-104.4	5090	0	0	53			05-3643 DLY
CO	HAMILTON	05-3738	40.3722	-107.6117	6230	0	0	63			05-3738 DLY 05-3742 DLY
CO	HAYDEN	05-3867	40.4925	-107.2547	6467	0	0	101			05-3867 DLY
CO	HOHNHOLZ RCH	05-4054	40.9683	-105.9986	7797	0	0	34			05-4054 DLY
CO	HOURLASS RSVR	05-4135	40.5831	-105.6319	9520	0	0	33			05-4135 DLY
CO	KAUFFMAN 4 SSE	05-4460	40.85	-103.9	5250	0	0	49			05-4460 DLY
CO	KREMMLING	05-4664	40.0575	-106.3681	7460	0	0	62			05-4664 DLY
CO	LONGMONT 2 ESE	05-5116	40.1694	-105.0775	4950	0	0	110			05-5116 DLY 69-0186 DLY 69-0229 DLY 69-0230 DLY
CO	LONGMONT 6 NW	05-5121	40.2467	-105.1464	5150	34	57	60	05-5121 15M 54-0007 15M	05-5121 HLY 54-0007 15M	05-5121 DLY 54-0007 15M 05-5121 HLY
CO	LOVELAND 2N	05-5236	40.435	-105.085	5080	0	0	32			05-5236 DLY
CO	MAYBELL	05-5446	40.5158	-108.0947	5944	0	0	59			05-5446 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
CO	MEEKER	05-5484	40.0358	-107.9058	6229	28	56	109	05-5484 15M 78-0021 15M 05-5487 15M 54-0008 15M	05-5484 HLY 64-0143 HLY 05-5485 HLY 72-0002 HLY 05-5487 HLY 54-0008 15M	05-5484 DLY 79-0086 DLY 05-5487 DLY
CO	NEW RAYMER	05-5922	40.6089	-103.8461	4783	22	54	62	05-5922 15M	05-5922 HLY 55-0106 HLY 76-0015 HLY	05-5922 DLY 55-0106 HLY 76-0015 HLY 05-5922 HLY
CO	NEW RAYMER 21 N	05-5934	40.9319	-103.8678	5180	0	0	34			05-5934 DLY
CO	NORTHGATE	05-5982	40.9367	-106.3392	7830	25	25	25	05-5982 15M 54-0011 15M	05-5982 HLY 54-0011 15M	05-5982 HLY 54-0011 15M
CO	NUNN	05-6023	40.7064	-104.7833	5196	40	60	71	05-6023 15M 54-0012 15M	05-6023 HLY 54-0012 15M	05-6023 DLY 69-1183 DLY 54-0012 15M 05-6023 HLY
CO	OAK CREEK 7WSW	05-6040	40.2406	-107.0969	8205	0	0	68			05-6040 DLY 05-6797 DLY
CO	RANGELY 1E	05-6832	40.0889	-108.7728	5277	0	0	84			05-6832 DLY
CO	RED FEATHER LAKES 2 SE	05-6925	40.7833	-105.55	8165	0	0	46			05-6925 DLY 05-6921 DLY
CO	RUSTIC 9WSW	05-7296	40.7022	-105.7106	7700	0	0	31			05-7296 DLY 05-7296 HLY
CO	SPICER	05-7848	40.4725	-106.4475	8385	0	0	87			05-7848 DLY
CO	STEAMBOAT SPRINGS	05-7936	40.4883	-106.8233	6866	0	0	115			05-7936 DLY
CO	STERLING	05-7950	40.6278	-103.2083	3974	0	0	112			05-7950 DLY 69-0328 DLY 69-0337 DLY 69-0339 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
CO	WALDEN	05-8756	40.7442	-106.2792	8056	0	0	89			05-8756 DLY
CO	WATERDALE	05-8839	40.4256	-105.2103	5230	0	0	111			05-8839 DLY
CO	WILLIAMS FORK DAM	05-9096	40.0375	-106.2039	7618	28	46	64	05-9096 15M 54-0013 15M	05-4129 HLY 54-0013 15M 05-9096 15M	05-9096 DLY 05-4129 DLY
CO	WINDSOR	05-9147	40.4667	-104.9	4781	0	0	45			05-9147 DLY
CO	YAMPA	05-9265	40.1564	-106.9108	7857	0	0	86			05-9265 DLY
NE	AGATE 3 E	25-0030	42.4244	-103.7347	4670	0	0	80			25-0030 DLY
NE	BRIDGEPORT	25-1145	41.6681	-103.1039	3666	34	55	124	25-1145 15M 54-0117 15M	25-1145 HLY 54-0117 15M 54-0117 15M	25-1145 DLY
NE	CHADRON 3SW	25-1575	42.8083	-103.0533	3383	18	50	102	25-1575 15M 54-0118 15M	25-1575 HLY 54-0118 15M	25-1575 DLY
NE	FT ROBINSON	25-3015	42.6656	-103.4617	3812	0	0	89			25-3015 DLY 25-1973 DLY
NE	HARRISBURG 12WNW	25-3605	41.6331	-103.9542	4550	0	0	105			25-3605 DLY
NE	HARRISON	25-3615	42.6858	-103.8842	4850	0	0	105			25-3615 DLY
NE	HARRISON 9W	25-3620	42.6544	-104.0467	4710	0	46	49		25-3620 HLY	25-3620 HLY
NE	HEMINGFORD	25-3755	42.3208	-103.0733	4270	0	0	53			25-3755 DLY
NE	KIMBALL 2NE	25-4440	41.2453	-103.6344	4708	0	0	111			25-4440 DLY
NE	LYMAN	25-5020	41.9169	-104.0358	4050	0	0	81			25-5020 DLY
NE	MINATARE DAM (USBR)	25-5555	41.9178	-103.4842	4144	0	0	46			25-5555 DLY 87-2374 HLY
NE	POTTER	25-6880	41.2183	-103.3206	4430	0	0	81			25-6880 DLY 69-0014 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
NV	CONTACT	26-1905	41.7706	-114.7528	5350	0	39	50		26-1905 HLY	26-1905 DLY 26-1905 HLY
NV	DEETH	26-2189	41.0661	-115.2711	5340	0	0	50			26-2189 DLY
NV	GIBBS RCH - JARBIDGE 24SE	26-3114	41.5697	-115.2111	5960	0	0	69			26-3114 DLY
NV	JACKPOT	26-4016	41.9828	-114.6586	5233	0	0	34			26-4016 DLY
NV	MCDERMITT	26-4935	41.9953	-117.72	4430	30	41	72	26-4935 15M	26-4935 HLY	26-4935 DLY 26-4935 HLY
NV	METROPOLIS	26-5092	41.2833	-115.0167	5800	0	0	30			26-5092 DLY 26-5092 15M
NV	MONTELO 2NE	26-5352	41.2781	-114.1706	4830	0	0	104			26-5352 DLY
NV	MTN CITY RS	26-5392	41.8375	-115.9653	5650	0	0	42			26-5392 DLY
NV	NORTH FORK MNTC STN	26-5691	41.4833	-115.8167	6204	0	0	48			26-5691 DLY 26-5691 HLY
NV	OROVADA 3 W	26-5818	41.5683	-117.8389	4200	0	0	103			26-5818 DLY
NV	OWYHEE	26-5869	41.95	-116.1	5397	0	26	35		26-5869 HLY 26-5869 15M 26-5869 15M	26-5869 DLY
NV	PARADISE VALLEY 1 NW	26-6005	41.5022	-117.5478	4560	0	0	91			26-6005 DLY
NV	PEQUOP	26-6148	41.0667	-114.5333	6033	0	35	36		26-6148 HLY	26-6148 DLY 26-6148 HLY
NV	SAN JACINTO	26-7284	41.8833	-114.6833	5203	0	0	36			26-7284 DLY
NV	TUSCARORA	26-8346	41.3144	-116.2225	6170	0	0	53			26-8346 DLY
NV	WELLS	26-8988	41.1006	-114.9736	5700	27	49	83	26-8988 15M	26-8988 HLY	26-8988 DLY
NV	WILD HORSE RSVR	26-9072	41.6358	-115.8008	6239	0	0	38			26-9072 DLY
ND	ALEXANDER 4 NNW	32-0096	47.9022	-103.6608	2140	0	0	57			32-0096 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
ND	AMBROSE 3 N	32-0189	48.9975	-103.4878	2027	29	29	66	32-0189 15M 54-0119 15M	32-0189 HLY 54-0119 15M	32-0189 DLY 54-0119 15M
ND	AMIDON	32-0209	46.4819	-103.3222	2910	0	0	70			32-0209 DLY
ND	BOWMAN	32-0995	46.1936	-103.3714	2983	41	62	103	32-0995 15M 54-0120 15M	32-0995 HLY 54-0120 15M	32-0995 DLY 32-0995 HLY
ND	CROSBY	32-1871	48.9144	-103.2978	1959	0	0	113			32-1871 DLY
ND	EPPING	32-2735	48.2833	-103.3667	2220	0	0	76			32-2735 DLY
ND	FAIRFIELD	32-2809	47.1906	-103.2247	2750	0	0	69			32-2809 DLY
ND	FORTUNA 1 W	32-3196	48.9081	-103.8056	2350	0	0	51			32-3196 DLY
ND	FRYBURG 1 SSE	32-3277	46.8667	-103.3	2733	0	0	35			32-3277 DLY 32-3277 HLY
ND	GRASSY BUTTE 2ENE	32-3705	47.4011	-103.2072	2670	0	0	43			32-3705 DLY 32-3696 HLY
ND	GRENORA	32-3736	48.6167	-103.9333	2129	0	0	62			32-3736 DLY
ND	MARMARTH	32-5575	46.2958	-103.92	2709	0	21	86		32-5575 HLY 32-5575 15M 32-5575 15M	32-5575 DLY 32-5573 DLY 32-5575 HLY
ND	MEDORA	32-5813	46.9161	-103.5264	2268	0	0	95			32-5813 DLY 32-5803 HLY 32-5803 DLY
ND	TROTTERS 3 SSE	32-8812	47.2842	-103.9006	2420	29	56	83	32-8812 15M	32-8812 HLY	32-8812 DLY 32-8807 DLY 32-8812 HLY
ND	WATFORD CITY	32-9233	47.8039	-103.2892	2170	0	0	81			32-9233 DLY
ND	WATFORD CITY 14S	32-9246	47.6	-103.2597	2027	0	0	63			32-9246 DLY
ND	WILDROSE 3NW	32-9400	48.6631	-103.2131	2227	0	0	78			32-9400 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
ND	WILLISTON EXP FARM	32-9430	48.1375	-103.7372	2105	0	0	88			32-9430 DLY 32-9420 DLY 62-0049 DLY
OR	ADRIAN	35-0041	43.7333	-117.0667	2231	0	0	61			35-0041 DLY
OR	CORNUCOPIA	35-1852	45	-117.2	4705	0	0	34			35-1852 DLY
OR	COVE 1 E	35-1926	45.3064	-117.7967	3062	0	0	87			35-1926 DLY 35-1924 DLY
OR	DANNER	35-2135	42.9447	-117.3389	4225	0	33	92		87-3121 HLY	35-2135 DLY 87-3121 HLY
OR	ENTERPRISE RS	35-2672	45.4256	-117.2972	3815	0	0	74			35-2672 DLY 35-2675 DLY 35-2672 15M
OR	ENTERPRISE 20 NNE	35-2678	45.7083	-117.1528	3280	0	0	36			35-2678 DLY
OR	HALFWAY	35-3604	44.8772	-117.1094	2653	35	33	88	35-3604 15M 54-0121 15M	35-3604 HLY 54-0121 15M	35-3604 DLY 35-6652 DLY
OR	HARPER	35-3666	43.8667	-117.6167	2513	0	0	43			35-3666 DLY
OR	HUNTINGTON	35-4098	44.3564	-117.255	2110	0	0	90			35-4098 DLY
OR	IMNAHA	35-4147	45.5622	-116.8331	1968	22	48	49	35-4147 15M	35-4147 HLY	35-4147 HLY
OR	IRONSIDE 2 W	35-4175	44.3247	-117.9964	3915	0	0	44			35-4175 DLY
OR	JORDAN VALLEY	35-4321	42.9792	-117.0533	4390	22	48	55	35-4321 15M	35-4321 HLY 35-4321 15M	35-4321 HLY 35-4321 15M
OR	JOSEPH	35-4329	45.3497	-117.2242	4184	0	0	95			35-4329 DLY 35-4329 HLY
OR	MALHEUR BRANCH EXP STN	35-5160	43.9794	-117.0247	2260	0	18	80		87-4351 HLY	35-5160 DLY 87-4351 HLY
OR	MASON DAM	35-5258	44.6719	-117.9942	3900	0	0	31			35-5258 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
OR	MC DERMITT 26 N	35-5335	42.4106	-117.8656	4464	0	31	64		87-4061 HLY	35-5335 DLY 87-4061 HLY
OR	NYSSA	35-6179	43.8764	-116.9903	2175	0	0	70			35-6179 DLY
OR	OWYHEE DAM	35-6405	43.65	-117.2467	2400	0	23	87		35-6405 HLY	35-6405 DLY
OR	RICHLAND	35-7160	44.7656	-117.1597	2215	0	21	77		35-7160 HLY	35-7160 DLY
OR	ROCK CREEK	35-7250	44.9094	-118.0625	4012	0	0	88			35-7250 DLY
OR	ROCKVILLE 5 N	35-7277	43.3636	-117.1142	3670	0	0	48			35-7277 DLY
OR	ROME 2 NW	35-7310	42.8592	-117.6569	3405	0	0	69			35-7310 DLY
OR	SHEAVILLE 1 SE	35-7736	43.1211	-117.0392	4620	0	0	52			35-7736 DLY
OR	UNION	35-8746	45.1986	-117.8647	2777	0	47	105		35-8746 HLY	35-8746 DLY 69-1811 DLY
OR	UNITY	35-8780	44.4367	-118.1886	4031	0	0	62			35-8780 DLY
OR	VALE	35-8797	43.9814	-117.2439	2240	0	0	103			35-8797 DLY
OR	WALLOWA	35-8997	45.5722	-117.5314	2923	0	0	112			35-8997 DLY
OR	WESTFALL	35-9176	43.9903	-117.7183	3040	0	0	37			35-9176 DLY 35-9176 HLY
SD	ANGOSTURA DAM	39-0217	43.35	-103.4333	3143	0	37	38		39-0217 HLY 87-0003 HLY	39-0217 DLY 87-0003 HLY
SD	ARDMORE 1 NW	39-0236	43.03	-103.66	3540	0	0	94			39-0236 DLY 39-0236 HLY
SD	BELLE FOURCHE	39-0559	44.6714	-103.8511	3020	0	0	102			39-0559 DLY
SD	BELLE FOURCHE 22 NNW	39-0565	44.9906	-103.9339	3200	0	0	35			39-0565 DLY
SD	BUFFALO GAP	39-1124	43.4917	-103.3131	3188	0	0	48			39-1124 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
SD	CAMP CROOK	39-1294	45.5489	-103.9744	3120	0	27	123		39-1294 HLY 76-0338 HLY 54-0123 15M	39-1294 DLY 39-1294 HLY
SD	CASTLE ROCK 4 NW	39-1504	45.01	-103.4828	3150	0	22	22		39-1504 HLY	39-1504 HLY
SD	CUSTER	39-2087	43.7744	-103.6119	5480	0	0	96			39-2087 DLY
SD	DEADWOOD	39-2207	44.3736	-103.7314	4670	0	0	89			39-2207 DLY 39-2209 DLY 52-2207 DLY
SD	DEERFIELD 3 SE	39-2231	43.9944	-103.7858	6060	0	0	61			39-2231 DLY 39-2234 DLY
SD	DUMONT 2 ENE	39-2409	44.25	-103.7667	6145	0	0	57			39-2409 DLY
SD	EDGEMONT	39-2557	43.3136	-103.8214	3432	36	69	74	39-2557 15M 54-0124 15M	39-2557 HLY 87-0644 HLY 54-0124 15M	39-2557 DLY 39-2557 HLY
SD	EDGEMONT 23 NNW	39-2565	43.6242	-103.9172	4402	26	35	50	39-2565 15M 54-0125 15M	39-2565 HLY 54-0125 15M	39-2565 DLY 39-2565 HLY
SD	FT MEADE	39-3069	44.4106	-103.4769	3308	0	0	87			39-3069 DLY
SD	HARDING 3 SE	39-3560	45.36	-103.8117	3400	0	0	70			39-3560 DLY
SD	HARDY RS	39-3572	44.15	-103.95	6473	0	0	32			39-3572 DLY
SD	HERMOSA 3 SSW	39-3775	43.8069	-103.2131	3425	0	0	90			39-3775 DLY 69-1834 DLY
SD	HILL CITY	39-3868	43.9342	-103.5572	4946	0	0	69			39-3868 DLY
SD	HOT SPRINGS	39-4007	43.4378	-103.4739	3560	0	0	118			39-4007 DLY
SD	LADNER 9SW	39-4671	45.7733	-103.8789	3000	0	0	34			39-4671 DLY 39-4671 HLY
SD	LEAD	39-4834	44.3544	-103.743	5112	0	0	114			39-4834 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
SD	LUDLOW 3 SSE	39-5048	45.785	-103.3719	2990	0	0	86			39-5048 DLY
SD	MT RUSHMORE NMEM	39-5870	43.8769	-103.4578	5311	0	0	62			39-5870 DLY
SD	NEWELL	39-6054	44.7136	-103.4258	2860	0	0	103			39-6054 DLY
SD	OELRICHS	39-6212	43.1878	-103.2372	3348	0	0	118			39-6212 DLY
SD	ORAL	39-6304	43.4033	-103.2683	2960	27	35	52	39-6304 15M 54-0126 15M	39-6304 HLY 54-0126 15M	39-6304 DLY
SD	ORMAN DAM	39-6357	44.7333	-103.6667	2933	0	0	64			39-6357 DLY
SD	PACTOLA DAM	39-6427	44.0622	-103.4819	4720	33	57	70	39-6427 15M 54-0127 15M	39-6427 HLY 54-0127 15M	39-6427 DLY 39-6427 HLY
SD	RALPH 1 N	39-6907	45.7842	-103.0656	2790	0	0	58			39-6907 DLY
SD	RAPID CITY 4NW	39-6947	44.1206	-103.2842	3479	0	0	67			39-6947 DLY
SD	REDIG 11 NE	39-7062	45.3767	-103.3675	3070	0	0	96			39-7062 DLY
SD	ROCHFORD 2 WNW	39-7227	44.1317	-103.7506	5450	0	22	67		39-7227 HLY	39-7227 DLY 39-7227 DLY 39-7227 HLY
SD	SPEARFISH 9 WNW	39-7877	44.55	-104.0167	3432	0	0	50			39-7877 DLY
SD	SPEARFISH	39-7882	44.4975	-103.8717	3633	24	47	123	39-7882 15M	39-7882 HLY	39-7882 DLY 69-1878 DLY 39-7882 HLY
SD	VALE	39-8552	44.6167	-103.4	2772	0	0	68			39-8552 DLY
SD	WIND CAVE	39-9347	43.5561	-103.4794	4155	25	58	67	39-9347 15M	39-9347 HLY 76-0341 HLY	39-9347 DLY 76-0341 HLY 39-9347 HLY
UT	ALLEN'S RCH	42-0050	40.8997	-109.1528	5490	0	0	49			42-0050 DLY 42-4322 DLY 42-4321 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
UT	ALPINE	42-0061	40.4644	-111.7708	5100	0	0	107			42-0061 DLY
UT	ALTA	42-0072	40.5906	-111.6369	8710	0	0	61			42-0072 DLY 42-0072 HLY
UT	ALTAMONT	42-0074	40.3669	-110.2986	6456	0	0	66			42-0074 DLY
UT	ARGENTA	42-0342	40.6419	-111.6797	6980	25	25	26	42-0342 15M	42-0342 15M	42-0342 15M
UT	BARTHOLOMEW POWERHOUSE	42-0449	40.1667	-111.5	5139	0	0	38			42-0449 DLY 42-4000 DLY
UT	BEAR RIVER REFUGE	42-0506	41.4667	-112.2667	4213	0	0	44			42-0506 DLY
UT	BONANZA	42-0802	40.0167	-109.1833	5450	0	0	53			42-0802 DLY 42-0810 DLY
UT	BOUNTIFUL BENCH	42-0819	40.8911	-111.8503	4950	0	0	48			42-0819 DLY
UT	BOUNTIFUL-VAL VERDA	42-0820	40.8547	-111.8903	4540	23	23	32	42-0820 15M	42-0820 HLY	42-0820 DLY
UT	BRIGHAM CITY	42-0924	41.4833	-112.0333	4344	0	0	44			42-0924 DLY
UT	BRIGHAM CITY WASTE PLT	42-0928	41.5242	-112.0436	4240	0	0	48			42-0928 DLY
UT	CITY CREEK WTP	42-1446	40.815	-111.8322	5340	0	0	87			42-1446 DLY 42-3929 DLY
UT	COALVILLE 13 E	42-1590	40.9383	-111.1472	6510	36	35	41	42-1590 15M 54-0131 15M	42-1590 HLY 54-0131 15M	42-1590 DLY 54-0131 15M 42-1590 HLY
UT	CORINNE	42-1731	41.5481	-112.1106	4230	0	0	82			42-1731 DLY
UT	COTTONWOOD WEIR	42-1759	40.6189	-111.7836	4986	34	55	100	42-1759 15M	42-1759 HLY	42-1759 DLY 42-1759 HLY
UT	CUTLER DAM	42-1918	41.8331	-112.0578	4290	0	0	40			42-1918 DLY
UT	DEER CREEK DAM	42-2057	40.4044	-111.5289	5270	0	0	84			42-2057 DLY
UT	DINOSAUR NM-QUARRY AREA	42-2173	40.4383	-109.3069	4802	0	0	74			42-2173 DLY 42-2172 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
UT	DUCHESNE	42-2253	40.1703	-110.3978	5551	0	0	116			42-2253 DLY 42-2252 DLY
UT	ECHO DAM	42-2385	40.9656	-111.4336	5470	47	69	83	42-2385 15M 54-0133 15M	42-2385 HLY 54-0133 15M	42-2385 DLY
UT	ELKHORN ASHLEY RNGR ST	42-2429	40.55	-109.95	6810	0	0	34			42-2429 DLY
UT	FARMINGTON 3 NW	42-2726	41.0203	-111.9328	4380	21	41	72	42-2726 15M 42-4538 15M 54-0134 15M	42-2726 HLY 42-4538 HLY 54-0134 15M	42-2726 DLY 42-2726 HLY 54-0134 15M
UT	FLAMING GORGE	42-2864	40.9317	-109.4117	6244	0	33	61		42-2864 HLY 57-0011 HLY	42-2864 DLY 57-0011 DLY
UT	FT DUCHESNE	42-2996	40.2842	-109.8611	5052	0	0	105			42-2996 DLY 52-2996 DLY
UT	FRUITLAND	42-3056	40.2167	-110.85	6624	0	0	41			42-3056 DLY 42-1907 DLY 42-3056 HLY
UT	GROUSE CREEK	42-3486	41.7139	-113.8694	5320	0	0	55			42-3486 DLY 42-3485 DLY
UT	HANNA	42-3624	40.4006	-110.7586	6738	0	23	39		42-3624 HLY 42-3624 15M	42-3624 DLY 42-3624 15M 42-3624 HLY
UT	HARDWARE RCH	42-3671	41.6	-111.5667	5560	0	0	31			42-3671 DLY
UT	HEBER	42-3809	40.4917	-111.4261	5590	0	0	109			42-3809 DLY 69-2076 DLY
UT	HUNTSVILLE MONASTERY	42-4135	41.2403	-111.7131	5140	0	0	36			42-4135 DLY
UT	JENSEN	42-4342	40.3611	-109.3464	4736	0	0	89			42-4342 DLY
UT	KAMAS	42-4467	40.6439	-111.2822	6481	0	0	67			42-4467 DLY
UT	LAKETOWN	42-4856	41.8253	-111.3206	5980	0	0	108			42-4856 DLY
UT	LEWISTON	42-5082	41.9667	-111.8333	4482	0	0	51			42-5082 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
UT	LOGAN RADIO KVNU	42-5182	41.735	-111.8564	4475	0	0	98			42-5182 DLY 42-5705 DLY 42-5183 DLY
UT	LOGAN UTAH ST UNIV	42-5186	41.7456	-111.8033	4790	47	68	115	42-5186 15M 54-0135 15M	42-5186 HLY 54-0135 15M	42-5186 DLY
UT	LOGAN 5 SW EXP FARM	42-5194	41.6661	-111.8914	4488	24	31	55	42-5194 15M 54-0136 15M	42-5194 HLY 54-0136 15M	42-5194 DLY 61-0014 DLY 42-1601 DLY
UT	LOWER AMERI FORK PWHS	42-5219	40.4333	-111.75	5043	0	22	60		76-0406 HLY	42-5219 DLY 76-0406 HLY
UT	MANILA	42-5377	40.99	-109.7258	6393	0	0	81			42-5377 DLY
UT	MIDVALE	42-5610	40.6	-111.9167	4344	0	0	58			42-5610 DLY
UT	MOON LAKE	42-5815	40.5617	-110.4925	8125	28	29	49	42-5815 15M	42-5815 HLY	42-5815 DLY 42-5815 HLY
UT	MORGAN	42-5826	41.0575	-111.6894	5100	0	0	93			42-5826 DLY
UT	MTN DELL DAM	42-5892	40.7486	-111.7233	5420	39	42	100	42-5892 15M 54-0137 15M	42-5892 HLY 54-0137 15M	42-5892 DLY 54-0137 15M 42-5892 HLY
UT	MYTON	42-5969	40.1942	-110.0608	5085	0	0	99			42-5969 DLY
UT	NEOLA	42-6123	40.4178	-110.0511	5950	0	0	64			42-6123 DLY
UT	NEOLA 8 N	42-6127	40.5358	-110.0642	6924	38	35	36	42-6127 15M	42-6127 HLY	42-6127 HLY
UT	OAKLEY 3 NE	42-6374	40.7392	-111.2414	6610	45	43	45	42-6374 15M 54-0139 15M	42-6374 HLY 54-0139 15M	42-6374 HLY 54-0139 15M
UT	OGDEN NE BENCH	42-6405	41.2458	-111.9372	4572	38	39	111	42-6404 15M	42-6404 HLY	42-6405 DLY 42-6400 DLY 42-6404 HLY 42-6404 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
UT	OGDEN SUGAR FACTORY	42-6414	41.2319	-112.0283	4280	46	66	94	42-6414 15M 54-0140 15M	42-6414 HLY 42-6424 HLY 54-0140 15M	42-6414 DLY 54-0140 15M
UT	OLMSTEAD PH	42-6455	40.3161	-111.6539	4820	32	34	42	42-6455 15M 54-0141 15M	42-6455 HLY 54-0141 15M	42-6455 DLY 54-0141 15M 42-6455 HLY
UT	OREM TRTMT PLT	42-6538	40.2767	-111.7369	4510	0	0	53			42-6538 DLY 42-3183 DLY 42-3182 DLY
UT	OURAY 4NE	42-6568	40.1344	-109.6436	4674	0	0	70			42-6568 DLY 57-0022 DLY
UT	PARK CITY G.C.	42-6648	40.66	-111.5156	6890	0	0	66			42-6648 DLY 42-6650 DLY 42-6644 DLY 42-6648 HLY
UT	PERRY	42-6757	41.4489	-112.0369	4360	21	20	18	42-6757 15M 54-0142 15M	42-6757 15M 54-0142 15M	42-6757 15M 54-0142 15M
UT	PINEVIEW DAM	42-6869	41.2578	-111.8378	4940	0	0	82			42-6869 DLY
UT	PLEASANT GROVE	42-6919	40.3678	-111.7333	4692	0	0	75			42-6919 DLY
UT	PLYMOUTH	42-6938	41.8739	-112.1486	4470	41	59	74	42-6938 15M 54-0143 15M	42-6938 HLY 54-0143 15M	42-6938 DLY 42-6938 HLY
UT	PROVO BYU	42-7064	40.2458	-111.6508	4570	31	38	49	42-7064 15M 54-0144 15M	42-7064 HLY 54-0144 15M	42-7064 DLY
UT	RANDOLPH	42-7165	41.6608	-111.1869	6290	0	0	49			42-7165 DLY
UT	RICHMOND	42-7271	41.9064	-111.81	4680	0	0	112			42-7271 DLY
UT	RIVERDALE	42-7318	41.15	-112	4400	0	0	66			42-7318 DLY
UT	ROOSEVELT RADIO	42-7395	40.2878	-109.9586	5014	30	61	71	42-7395 15M 54-0145 15M	42-7395 HLY 54-0145 15M	42-7395 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
UT	ROSETTE	42-7408	41.8186	-113.4133	5685	0	0	92			42-7408 DLY 42-6658 DLY
UT	SALT LAKE TRIAD CTR	42-7606	40.7708	-111.8964	4280	0	35	89		42-7606 HLY 42-7603 HLY	42-7606 DLY 69-2008 DLY 42-7603 HLY 79-0074 DLY 42-7606 HLY
UT	SILVER LAKE BRIGHTON	42-7846	40.6008	-111.5842	8740	0	38	90		42-7846 HLY	42-7846 DLY 86-0366 DLY
UT	SNAKE CREEK POWERHOUSE	42-7909	40.5453	-111.5042	6010	0	0	91			42-7909 DLY
UT	SNOWVILLE	42-7931	41.9667	-112.7167	4560	0	0	62			42-7931 DLY
UT	TERMINAL	42-8631	40.75	-112	4232	0	0	31			42-8631 DLY
UT	THIOKOL PROPULSION F S	42-8668	41.7197	-112.4264	4600	0	0	42			42-8668 DLY
UT	TIMPANOGOS CAVE	42-8733	40.4447	-111.7075	5740	0	0	66			42-8733 DLY
UT	TREMONTON	42-8817	41.7108	-112.1636	4310	0	0	90			42-8817 DLY 42-3122 15M 42-3122 DLY 69-1940 DLY
UT	TRENTON	42-8828	41.9153	-111.9128	4455	0	0	41			42-8828 DLY
UT	UNIV OF UTAH	42-8922	40.7667	-111.8333	4800	0	0	53			42-8922 DLY 42-7655 DLY 69-2015 DLY
UT	UPPER AMERICAN FORK PH	42-8939	40.4378	-111.7236	5330	0	0	48			42-8939 DLY 42-8939 HLY
UT	VERNAL	42-9111	40.4403	-109.5356	5345	0	0	110			42-9111 DLY
UT	WANSHIP DAM	42-9165	40.7908	-111.4078	5940	0	0	68			42-9165 DLY
UT	WEBER BASIN PUMP PLT 3	42-9346	41.1092	-111.9125	4900	0	0	55			42-9346 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
UT	WOODRUFF	42-9595	41.525	-111.1494	6315	0	0	96			42-9595 DLY
WA	ANATONE	45-0184	46.1333	-117.1333	3573	0	0	55			45-0184 DLY
WA	ASOTIN 14 SW	45-0294	46.2039	-117.2472	3403	0	0	47			45-0294 DLY
WA	BOUNDARY DAM	45-0844	48.9947	-117.3544	1837	0	0	58			45-0844 DLY 45-0845 DLY
WA	BOUNDARY SWITCHYARD	45-0849	48.9806	-117.3586	2572	23	20	24	45-0849 15M	45-0849 HLY	45-0849 HLY
WA	CHEWELAH	45-1395	48.2733	-117.7408	1670	21	24	82	45-1395 15M	45-1395 HLY	45-1395 DLY 72-3829 HLY
WA	COLFAX	45-1586	46.8833	-117.3647	1980	0	0	92			45-1586 DLY
WA	COLVILLE	45-1630	48.5678	-117.9356	1554	0	43	120		45-1630 HLY 45-1650 HLY	45-1630 DLY 45-1654 DLY 64-0355 DLY 45-1650 DLY
WA	DAYTON 1 WSW	45-2030	46.3153	-118.0022	1557	30	31	118	45-2030 15M 54-0149 15M	45-2030 HLY 54-0149 15M	45-2030 DLY
WA	DAYTON 9 SE	45-2037	46.2167	-117.85	2343	0	24	24		45-2037 HLY	45-2037 HLY
WA	EWAN	45-2706	47.1167	-117.7333	1722	0	0	30			45-2706 DLY
WA	LACROSSE	45-4338	46.8167	-117.8831	1476	0	0	113			45-4338 DLY
WA	LOWER GRANITE DAM	45-4835	46.658	-117.4327	660	0	0	41			45-4835 DLY 45-9024 DLY
WA	METALINE FALLS	45-5317	48.8667	-117.3667	2113	0	0	43			45-5317 DLY
WA	NEWPORT	45-5844	48.1842	-117.0475	2162	0	0	102			45-5844 DLY 69-2090 DLY
WA	NORTHPORT	45-5946	48.8994	-117.8289	1497	27	44	104	45-5946 15M 54-0150 15M	45-5946 HLY 54-0150 15M	45-5946 DLY
WA	POMEROY	45-6610	46.4672	-117.5883	1934	0	0	89			45-6610 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
WA	PULLMAN 2 NW	45-6789	46.7603	-117.1861	2515	0	50	124		45-6789 HLY 54-0151 15M	45-6789 DLY 45-6784 DLY
WA	ROSALIA	45-7180	47.2347	-117.3636	2420	0	0	127			45-7180 DLY
WA	ST JOHN	45-7267	47.0933	-117.5878	1952	0	0	56			45-7267 DLY
WA	SPOKANE	45-7933	47.6667	-117.4167	1880	0	0	30			45-7933 DLY
WA	SPRAGUE	45-7956	47.3	-117.9833	1970	0	28	60		45-7956 HLY	45-7956 DLY
WA	TEKOA	45-8348	47.2275	-117.0836	2495	0	0	53			45-8348 DLY 45-8348 HLY
WA	WELLPINIT	45-9058	47.8964	-117.9933	2490	0	0	69			45-9058 DLY
SD	BUFFALO 13 ESE	57-0004	45.516	-103.3017	2883	0	0	33			57-0004 DLY 39-0223 DLY
CO	NUNN 7 NNE	57-0017	40.8066	-104.7552	5390	0	23	42		57-0017 HLY 88-2017 HLY	57-0017 DLY 88-2017 DLY 61-0037 DLY
CO	ROCKY MOUNTAIN NATIONAL PARK-B	61-0038	40.3639	-105.581	8127	0	0	34			61-0038 DLY
CO	FT COLLINS AERC	62-0003	40.5833	-105.15	5062	0	23	32		62-0003 HLY	62-0003 DLY 69-0461 DLY 69-0472 DLY
CO	PECKHAM	62-0010	40.3	-104.7333	4648	0	25	25		62-0010 HLY	62-0010 DLY
CO	AULT	62-0012	40.5667	-104.7333	4885	0	25	25		62-0012 HLY	62-0012 HLY
CO	KERSEY	62-0017	40.3667	-104.5333	4573	0	24	25		62-0017 HLY	62-0017 DLY
NE	SCOTTSBLUFF 6NW	62-0031	41.95	-103.7	4114	0	0	99			62-0031 DLY 25-5590 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
AB	BOW ISLAND IRRIGATION AGDM	64-0038	49.867	-111.383	2621	0	0	35			64-0038 DLY 71-0094 DLY 71-0096 DLY 71-0093 DLY
AB	RAYMOND AGDM ALTA	64-0042	49.483	-112.683	3074	0	0	49			64-0042 DLY 71-0168 DLY
UT	HILL AFB AIRPORT	64-0193	41.117	-111.967	4789	0	0	48			64-0193 DLY 79-0038 DLY
SD	ELLSWORTH AIR FORCE BASE	64-0235	44.15	-103.1	3278	0	0	42			64-0235 DLY 79-0016 DLY
CO	DRAKE 3.0 NNE	69-0438	40.47	-105.3092	6752	21	19	32	05-2354 15M	05-2354 HLY 05-2354 15M	69-0438 DLY 05-2354 15M 05-2354 HLY
CO	BLV 4.0 NW	69-0634	40.6754	-105.215	5354	23	23	42	05-3007 15M	05-3007 HLY 05-3007 15M 05-3007 15M	69-0634 DLY 05-3007 15M 05-3007 15M 05-3007 HLY
CO	KERSEY 1.3 WSW	69-1227	40.3802	-104.5842	4643	0	0	31			69-1227 DLY 62-0017 HLY
ND	BEACH 0.3 SSE	69-1787	46.9095	-104.005	2803	0	0	85			69-1787 DLY 32-0590 DLY
UT	FARMINGTON 1.8 W	69-1977	40.9874	-111.9286	4239	0	0	59			69-1977 DLY 42-2721 DLY
BC	CASTLEGAR A	71-0005	49.3	-117.6333	1627	0	20	58		60-1123 HLY	71-0005 DLY
BC	CASTLEGAR BCHPA DAM	71-0006	49.3424	-117.7641	1427	0	21	53		60-1124 HLY	71-0006 DLY 71-0007 DLY
BC	COLUMBIA GARDENS	71-0008	49.05	-117.6	1421	0	0	38			71-0008 DLY 71-0009 DLY
BC	CRESTON	71-0012	49.1	-116.5167	2001	0	0	101			71-0012 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
BC	KASLO	71-0017	49.9167	-116.9167	1969	0	0	105			71-0017 DLY
BC	KINGSGATE	71-0018	49	-116.1833	2690	0	0	35			71-0018 DLY
BC	NELSON NE	71-0023	49.5861	-117.2064	1870	0	0	35			71-0023 DLY
BC	NELSON CS	71-0029	49.4914	-117.3053	1755	0	0	96			71-0029 DLY
											70-0007 DLY
											71-0026 DLY
											71-0022 DLY
											71-0027 DLY
BC	ROBSON	71-0032	49.3333	-117.7	1450	0	0	31			64-0046 DLY
											71-0032 DLY
											71-0033 DLY
											71-0034 DLY
											71-0037 DLY
BC	SOUTH SLOCAN	71-0037	49.4548	-117.5212	1499	0	0	75			71-0002 DLY
BC	WANETA	71-0041	49.0072	-117.5927	1831	0	0	51			71-0041 DLY
BC	WARFIELD RCS	71-0043	49.1122	-117.7385	1860	0	0	86			71-0043 DLY
											71-0042 DLY
											71-0040 DLY
BC	NELSON RIXEN CREEK	71-0048	49.5123	-117.3988	2577	0	0	33			71-0048 DLY
BC	CRANBROOK A	71-0060	49.6167	-115.7833	3084	0	37	54	60-1134 HLY		71-0060 DLY
									60-1135 HLY		71-0057 DLY
BC	ELKO	71-0062	49.3	-115.1167	3054	0	0	57			71-0062 DLY
BC	FERNIE	71-0063	49.4833	-115.0667	3284	0	0	104			71-0063 DLY
BC	CRANBROOK CITY	71-0065	49.5167	-115.7667	3038	0	0	82			71-0065 DLY
											71-0059 DLY
											71-0056 DLY
											71-0055 DLY
BC	FT STEELE DANDY CRK	71-0067	49.5167	-115.4667	2808	0	0	36			71-0067 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
BC	KIMBERLEY PCC	71-0074	49.6333	-115.9667	2917	0	24	40		60-1137 HLY	71-0074 DLY
BC	MARYSVILLE	71-0075	49.6333	-115.95	3150	0	0	34			71-0075 DLY
BC	NEWGATE	71-0080	49.0219	-115.1861	2513	0	0	45			71-0080 DLY
BC	SPARWOOD	71-0081	49.75	-114.8833	3734	0	40	48		60-1138 HLY 55-0044 HLY	71-0081 DLY 71-0079 DLY
BC	WARDNER KTNV HATCHERY	71-0084	49.4667	-115.4667	2493	0	0	38			71-0084 DLY
BC	WASA	71-0085	49.8167	-115.6333	3182	0	0	90			71-0085 DLY
AB	CALDWELL	71-0099	49.1667	-113.6333	4219	0	0	77			71-0099 DLY
AB	CARDSTON	71-0100	49.1333	-113.25	3914	0	0	79			71-0100 DLY
AB	CARWAY	71-0104	49	-113.3833	4442	0	0	105			71-0104 DLY 71-0103 DLY
AB	CONNELLY CREEK	71-0107	49.6167	-114.2167	4098	0	0	34			71-0107 DLY
AB	COWLEY OLIN CREEK	71-0111	49.7	-114.0667	4049	0	0	39			71-0111 DLY
AB	CLARESHOLM MEADOW CREEK	71-0113	49.9333	-113.7333	3396	0	0	84			71-0113 DLY
AB	FOREMOST AGDM	71-0118	49.4833	-111.4833	2890	0	0	72			71-0118 DLY 71-0120 DLY 71-0117 DLY 64-0019 DLY
AB	FORT MACLEOD	71-0121	49.7167	-113.4	3117	0	0	89			71-0121 DLY
AB	LETHBRIDGE	71-0138	49.6333	-112.8	3048	0	32	84		60-1165 HLY	71-0138 DLY 71-0142 DLY 71-0140 DLY 71-0141 DLY
AB	LETHBRIDGE DEMO FARM AGDM	71-0147	49.6833	-112.75	2963	0	0	103			71-0147 DLY 71-0144 DLY 64-0035 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
AB	MONARCH	71-0152	49.8167	-113.1667	3107	0	0	32			71-0152 DLY
AB	MOUNTAIN VIEW	71-0153	49.1333	-113.6333	4393	0	0	85			71-0153 DLY
AB	PINCHER CREEK CLIMATE	71-0162	49.5167	-114	3904	0	33	119			71-0162 DLY
											71-0159 DLY
									60-1173 HLY		71-0166 DLY
									60-1172 HLY		71-0160 DLY
									60-1171 HLY		64-0044 DLY
											71-0158 DLY
											71-0161 DLY
AB	SEVEN PERSONS	71-0170	49.8333	-110.9	2480	0	0	49			71-0170 DLY
AB	TABER	71-0174	49.8	-112.1167	2661	0	0	55			71-0174 DLY
AB	WINNIFRED	71-0177	49.9	-111.2	2726	0	0	37			71-0177 DLY
AB	ALTAWAN	71-0182	49.25	-110.0167	3100	0	0	32			71-0182 DLY
AB	MASINASIN	71-0199	49.1333	-111.65	3127	0	0	43			71-0199 DLY
											64-0028 DLY
AB	ONEFOUR CDA	71-0207	49.1167	-110.4667	3068	0	27	84			71-0207 DLY
									55-0007 HLY		71-0196 DLY
									60-1178 HLY		55-0007 HLY
AB	BEAVER MINES	71-0219	49.4667	-114.1833	4124	0	0	109			71-0219 DLY
											64-0025 DLY
AB	CAMERON FALLS	71-0225	49.05	-113.9167	4301	0	0	45			71-0225 DLY
											71-0259 DLY
AB	COLEMAN	71-0230	49.6333	-114.5833	4400	0	0	83			71-0230 DLY
AB	LUNDBRECK	71-0239	49.9167	-114.1333	4452	0	0	45			71-0239 DLY
AB	MOUNTAIN VIEW BIRDSEYE	71-0241	49.1167	-113.7333	4619	0	0	59			71-0241 DLY
AB	WATERTON PARK GATE	71-0249	49.1333	-113.8167	4229	0	0	61			71-0249 DLY
											71-0261 DLY
											55-0013 HLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
SK	AMULET	71-0269	49.6167	-104.7333	2388	0	0	30			71-0269 DLY
SK	CEYLON	71-0271	49.4667	-104.6	2339	0	0	55			71-0271 DLY
SK	DAHINDA	71-0273	49.7333	-105.0333	2349	0	0	33			71-0273 DLY
SK	LAKE ALMA	71-0277	49.0667	-104.25	2375	0	0	31			71-0277 DLY
SK	MACOUN	71-0278	49.2333	-103.2333	1873	0	0	38			71-0278 DLY
SK	MIDALE	71-0281	49.4	-103.4	1909	0	0	69			71-0281 DLY
SK	ORMISTON	71-0282	49.7167	-105.3667	2251	0	21	45		60-1201 HLY	71-0282 DLY
SK	RADVILE	71-0285	49.5	-104.2833	2077	0	0	39			71-0285 DLY
SK	WEYBURN	71-0290	49.65	-103.8333	1870	0	37	64		60-1202 HLY	71-0290 DLY
SK	YELLOW GRASS	71-0292	49.8167	-104.1833	1903	0	0	102			71-0292 DLY 60-1203 HLY
SK	WEYBURN	71-0293	49.7	-103.8	1932	0	0	39			71-0293 DLY 71-0291 DLY 70-0014 DLY 64-0032 DLY
SK	ANEROID	71-0294	49.7167	-107.3	2474	0	0	73			71-0294 DLY
SK	ASSINIBOIA AIRPORT	71-0296	49.7333	-105.95	2382	0	0	97			71-0296 DLY 71-0295 DLY
SK	CYPRESS HILLS	71-0299	49.6667	-109.4667	3924	0	0	30			71-0299 DLY
SK	GARDEN HEAD	71-0301	49.8167	-108.5667	2969	0	0	59			71-0301 DLY
SK	GRAVELBOURG	71-0303	49.8833	-106.55	2297	0	0	65			71-0303 DLY
SK	GULL LAKE CDA EPF	71-0305	49.95	-108.4667	2976	0	0	33			71-0305 DLY
SK	ILLERBRUN	71-0308	49.8833	-108.3667	2927	0	0	37			71-0308 DLY
SK	KINCAID	71-0310	49.6667	-107	2425	0	0	46			71-0310 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
SK	KLINTONEL	71-0311	49.6833	-108.9167	3524	0	0	82			71-0311 DLY
SK	LIMERICK	71-0313	49.5	-106.25	2490	0	0	33			71-0313 DLY
SK	MAPLE CREEK	71-0314	49.9	-109.4667	2516	0	0	80			71-0314 DLY 71-0318 DLY 71-0317 DLY 71-0315 DLY
SK	MAPLE CREEK NORTH	71-0316	50	-109.4667	2507	0	0	53			71-0316 DLY
SK	SHAUNAVON	71-0322	49.65	-108.4	3009	0	0	31			71-0322 DLY
SK	SHAUNAVON 2	71-0324	49.65	-108.4167	2999	0	0	32			71-0324 DLY
SK	SHAUNAVON 3	71-0325	49.9	-108.4167	2927	0	0	35			71-0325 DLY
SK	WOODROW	71-0327	49.5667	-106.7833	2395	0	0	45			71-0327 DLY
SK	CLAYDON	71-0333	49.1333	-109.1	3199	0	0	43			71-0333 DLY
SK	CONSUL	71-0336	49.3	-109.4833	3091	0	0	42			71-0336 DLY 71-0335 DLY
SK	CORONACH	71-0337	49.1167	-105.5167	2536	0	0	44			71-0337 DLY
SK	CORONACH SPC	71-0339	49.05	-105.4833	2480	0	0	39			71-0339 DLY
SK	CYPRESS HILLS PARK	71-0340	49.6333	-109.5167	4170	0	0	50			71-0340 DLY 71-0341 DLY
SK	MANKOTA	71-0353	49.1	-107.0167	2723	0	0	56			71-0353 DLY 64-0017 DLY
SK	NASHLYN	71-0357	49.2	-109.5167	3100	0	0	61			71-0357 DLY
SK	ROCKGLEN (AUT)	71-0360	49.1667	-105.9833	3009	0	18	28		55-0009 HLY 60-1213 HLY	71-0360 DLY
SK	VAL-MARIE	71-0363	49.3667	-107.85	2651	0	0	50			71-0363 DLY
SK	WEST POPLAR RIVER	71-0369	49	-106.3833	2874	0	0	38			71-0369 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
SK	WILLOW CREEK	71-0370	49.0167	-109.9167	2733	0	0	32			71-0370 DLY
CO	DINOSAUR N.M.	76-0006	40.5086	-108.9106	5960	0	23	23		76-0006 HLY	76-0006 HLY
CO	ERNIE GULCH	76-0008	40.0458	-108.2	7000	0	25	26		76-0008 HLY	76-0008 HLY
CO	ESTES PARK	76-0009	40.3667	-105.55	7820	0	20	19		76-0009 HLY	76-0009 HLY
CO	LODORE	76-0014	40.7386	-108.8367	5940	0	32	32		76-0014 HLY	76-0014 HLY
CO	PINTO	76-0017	40.0097	-108.4597	6940	0	32	32		76-0017 HLY	76-0017 HLY
ND	SAND CREEK	76-0333	46.5456	-103.5183	2700	0	24	24		76-0333 HLY	76-0333 HLY
NE	SCOTTS BLUFF	76-0334	41.8167	-103.7	4224	0	18	19		76-0334 HLY	76-0334 HLY
ND	WATFORD CITY	76-0336	47.7803	-103.2867	2165	0	24	24		76-0336 HLY	76-0336 HLY
ND	BAKER PARK	76-0337	43.9792	-103.425	4674	0	20	20		76-0337 HLY	76-0337 HLY
ND	CUSTER	76-0340	43.75	-103.6333	5200	0	20	21		76-0340 HLY	76-0340 HLY
ND	NEMO	76-0345	44.1917	-103.5097	4644	0	28	28		76-0345 HLY	76-0345 HLY
ND	RED CANYON	76-0347	43.4258	-103.7589	4644	0	29	28		76-0347 HLY	76-0347 HLY
NV	LONG HOLLOW	76-0357	41.5386	-116.2175	5820	0	32	34		76-0357 HLY	76-0357 HLY
OR	BLUE CANYON	76-0366	44.67	-117.9336	4200	0	33	34		76-0366 HLY	76-0366 HLY
OR	EDEN	76-0370	45.9267	-117.5883	4200	0	23	21		76-0370 HLY	76-0370 HLY
OR	FLAGSTAFF HILL	76-0371	44.8142	-117.7289	3945	0	20	22		76-0371 HLY	76-0371 HLY
OR	GRASSY MOUNTAIN	76-0373	42.6261	-117.395	4560	0	36	36		76-0373 HLY	76-0373 HLY
OR	KELSAY BUTTE	76-0375	43.9014	-117.9858	5187	0	35	36		76-0375 HLY	76-0375 HLY
OR	OWYHEE RIDGE	76-0381	43.5833	-117.2333	4400	0	36	36		76-0381 HLY	76-0381 HLY
OR	ROBERTS BUTTE	76-0386	45.6817	-117.2064	4263	0	21	20		76-0386 HLY	76-0386 HLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
UT	CART CREEK	76-0393	40.8847	-109.4122	6900	0	24	23		76-0393 HLY	76-0393 HLY
UT	DIAMOND RIM	76-0395	40.6172	-109.2428	7730	0	37	38		76-0395 HLY	76-0395 HLY
UT	KINGS POINT - DUTCH JOHN 16ESE	76-0399	40.8606	-109.1022	5670	0	36	36		76-0399 HLY	76-0399 HLY
UT	YAMPA PLATEAU - JENSEN 7SSE	76-0418	40.278	-109.2888	5240	0	37	35		76-0418 HLY	76-0418 HLY
UT	YELLOWSTONE - ALTAMONT 13NNW	76-0419	40.5436	-110.3294	7800	0	24	26		76-0419 HLY	76-0419 HLY
NE	CHADRON MUNI AP	79-0017	42.8375	-103.0953	3318	0	42	48		55-0137 HLY 78-0013 15M 55-0299 HLY	79-0017 DLY 78-0013 15M 55-0137 HLY 55-0299 HLY
NE	SCOTTSBLUFF HEILIG AP	79-0023	41.8706	-103.5931	3945	0	74	126		25-7665 HLY 55-0146 HLY	79-0023 DLY
CO	CRAIG MOFFAT CO AP	79-0031	40.4953	-107.5211	6186	0	47	65		72-0001 HLY 05-1928 HLY 05-1931 HLY	79-0031 DLY 05-1928 DLY 64-0176 DLY
WA	FAIRCHILD AFB	79-0041	47.6333	-117.65	2438	0	0	67			79-0041 DLY 45-7941 DLY 55-0273 HLY 64-0345 DLY
UT	COALVILLE	79-0043	40.9139	-111.3983	5550	0	0	74			79-0043 DLY
UT	SALT LAKE CITY INTL AP	79-0046	40.7781	-111.9694	4225	20	73	75	78-0058 15M	64-0184 HLY 78-0058 15M	79-0046 DLY
OR	BAKER CITY MUNI AP	79-0047	44.8428	-117.8086	3361	0	22	80		35-0412 HLY 55-0243 HLY	79-0047 DLY
WA	SPOKANE INTL AP	79-0068	47.6217	-117.5281	2353	0	75	134		45-7938 HLY 64-0342 HLY	79-0068 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
OR	ONTARIO MUNI AP	79-0072	44.0206	-117.0128	2190	29	65	78	78-0046 15M 35-6294 15M	55-0236 HLY 35-6294 HLY 72-2837 HLY	79-0072 DLY 35-6294 DLY
OR	BAKER KBKR	79-0075	44.7667	-117.8333	3445	0	45	72		35-0409 HLY 35-0417 HLY	79-0075 DLY 35-0417 HLY 35-0409 HLY
ND	WILLISTON SLOULIN INTL AP	79-0080	48.1739	-103.6367	1902	0	69	126		32-9425 HLY 55-0244 HLY	79-0080 DLY 32-9421 DLY
UT	VERNAL MUNICIPAL AP	79-0083	40.4422	-109.5144	5260	0	23	25		72-3113 HLY	79-0083 DLY 69-2051 DLY 72-3113 HLY
SD	BUFFALO ASOS	79-0085	45.6044	-103.5464	3004	27	68	66	39-1114 15M 78-0001 15M	39-1114 HLY 55-0200 HLY 39-1114 15M	79-0085 DLY 39-1114 15M 39-1114 HLY
OR	ROME ST AP	79-0106	42.5906	-117.8644	4050	0	23	26		72-2839 HLY	79-0106 DLY 72-2839 HLY
WA	DEER PARK AP	79-0107	47.9742	-117.4283	2191	0	23	83		45-2064 HLY 55-0277 HLY 72-3741 HLY	79-0107 DLY 45-2066 DLY
UT	LOGAN CACHE AP	79-0108	41.7872	-111.8533	4454	0	24	25		55-0134 HLY	79-0108 DLY
WA	SPOKANE FELTS FLD	79-0114	47.6831	-117.3214	1953	0	23	25		72-3744 HLY	79-0114 DLY
OR	ANEROID LAKE #2	86-0302	45.2133	-117.1926	7400	0	0	42			86-0302 DLY
NV	BEAR CREEK	86-0321	41.8338	-115.4528	8040	0	17	45		86-0321 HLY	86-0321 DLY
CO	BEAR LAKE	86-0322	40.3118	-105.6467	9500	0	22	43		86-0322 HLY	86-0322 DLY
UT	BEAVER DIVIDE	86-0330	40.6123	-111.0978	8280	0	0	45			86-0330 DLY
UT	BEN LOMOND PEAK	86-0332	41.376	-111.9441	7689	0	22	45		86-0332 HLY	86-0332 DLY
UT	BEN LOMOND TRAIL	86-0333	41.3829	-111.921	5972	0	20	43		86-0333 HLY	86-0333 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
NV	BIG BEND	86-0336	41.7617	-115.6931	6898	0	21	45		86-0336 HLY	86-0336 DLY
SD	BLIND PARK	86-0354	44.1077	-103.9769	6890	0	0	33			86-0354 DLY
UT	BROWN DUCK	86-0368	40.581	-110.5859	10574	0	0	45			86-0368 DLY
NV	BUCKSKIN LOWER	86-0373	41.7507	-117.5318	6930	0	0	43			86-0373 DLY
UT	BUG LAKE	86-0374	41.6854	-111.4199	7987	0	14	45		86-0374 HLY	86-0374 DLY
WA	BUNCHGRASS MDW	86-0376	48.6869	-117.1763	5000	0	17	41		86-0376 HLY	86-0376 DLY
UT	CHALK CREEK #1	86-0392	40.8546	-111.0477	9171	0	0	45			86-0392 DLY
UT	CHALK CREEK #2	86-0393	40.8853	-111.0695	8208	0	0	45			86-0393 DLY
UT	CHEPETA	86-0396	40.7746	-110.0105	10499	0	21	42		86-0396 HLY	86-0396 DLY
CO	COLUMBINE	86-0408	40.3948	-106.6041	9160	0	0	44			86-0408 DLY
CO	COPELAND LAKE	86-0412	40.2078	-105.5686	8600	0	0	42			86-0412 DLY
CO	CROSHO	86-0426	40.1674	-107.0575	9100	0	0	37			86-0426 DLY
UT	CURRANT CREEK	86-0432	40.3575	-111.0899	7915	0	0	45			86-0432 DLY
UT	DANIELS-STRAWBERRY	86-0435	40.2953	-111.2568	8008	0	0	56			86-0435 DLY 42-8369 DLY 80-0222 DLY
CO	DEADMAN HILL	86-0438	40.8057	-105.7699	10220	0	0	45			86-0438 DLY
NV	DRAW CREEK	86-0454	41.661	-115.3234	7332	0	0	40			86-0454 DLY
UT	DRY BREAD POND	86-0455	41.4129	-111.5377	8302	0	0	45			86-0455 DLY
CO	DRY LAKE	86-0457	40.534	-106.7813	8400	0	0	42			86-0457 DLY 61-0035 DLY
OR	EILERTSON MEADOWS	86-0464	44.8689	-118.1139	5510	0	0	43			86-0464 DLY
CO	ELK RIVER	86-0467	40.8478	-106.9687	8700	0	0	43			86-0467 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
UT	FARMINGTON	86-0474	40.9746	-111.8098	7902	0	0	45			86-0474 DLY
NV	FAWN CREEK	86-0476	41.821	-116.1015	7031	0	0	43			86-0476 DLY
UT	FIVE POINTS LAKE	86-0481	40.7178	-110.4672	10943	0	0	43			86-0481 DLY
NV	GRANITE PEAK	86-0498	41.6703	-117.5667	8503	0	0	43			86-0498 DLY
UT	LAKEFORK BASIN	86-0513	40.7379	-110.6212	10885	0	0	42			86-0513 DLY
UT	HAYDEN FORK	86-0517	40.7967	-110.8847	9130	0	0	45			86-0517 DLY
UT	HEWINTA	86-0521	40.9501	-110.4842	9500	0	23	38	76-0398 HLY 86-0521 HLY		86-0521 DLY
UT	HICKERSON PARK	86-0522	40.9066	-109.9629	9122	0	0	38			86-0522 DLY
UT	HOLE-IN-ROCK	86-0528	40.9217	-110.1862	9168	0	17	38	86-0528 HLY		86-0528 DLY
UT	HORSE RIDGE	86-0533	41.3137	-111.4462	8199	0	0	45			86-0533 DLY
NV	JACK CREEK UPPER	86-0548	41.5467	-116.0052	7377	0	0	45			86-0548 DLY
NV	JACKS PEAK	86-0549	41.5136	-116.0117	8424	0	0	42			86-0549 DLY
CO	JOE WRIGHT	86-0551	40.5322	-105.887	10120	0	0	45			86-0551 DLY
UT	KINGS CABIN	86-0559	40.7163	-109.544	8728	0	0	45			86-0559 DLY
CO	LAKE IRENE	86-0565	40.4143	-105.8198	10700	0	0	45			86-0565 DLY
UT	LAKEFORK #1	86-0566	40.5971	-110.4332	10128	0	0	45			86-0566 DLY
NV	LAMANCE CREEK	86-0569	41.5154	-117.632	6395	0	0	43			86-0569 DLY
NV	LAUREL DRAW	86-0573	41.7764	-116.0296	6682	0	0	44			86-0573 DLY
UT	LILY LAKE	86-0579	40.8649	-110.7981	9133	0	0	43			86-0579 DLY
UT	LITTLE BEAR	86-0582	41.4056	-111.8261	6548	0	0	45			86-0582 DLY
UT	LOOKOUT PEAK	86-0596	40.8373	-111.7096	8161	0	0	35			86-0596 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
CO	LYNX PASS	86-0607	40.0781	-106.6703	8880	0	0	43			86-0607 DLY
UT	MILL-D NORTH	86-0628	40.6588	-111.6368	8963	0	0	35			86-0628 DLY
UT	MONTE CRISTO	86-0634	41.4655	-111.4969	8932	0	0	45			86-0634 DLY
UT	MOSBY MTN.	86-0643	40.608	-109.8881	9553	0	0	45			86-0643 DLY
OR	MOSS SPRINGS	86-0647	45.2717	-117.6875	5760	0	0	43			86-0647 DLY
OR	MT. HOWARD	86-0653	45.2652	-117.1737	7910	0	18	40		86-0653 HLY	86-0653 DLY
CO	NIWOT	86-0663	40.0352	-105.5443	9910	23	23	43	05-5881 15M 57-0002 15M 54-0009 15M	86-0663 HLY 57-0002 15M 54-0009 15M 05-5881 15M	86-0663 DLY
UT	PARLEYS SUMMIT	86-0684	40.7618	-111.6292	7585	0	0	44			86-0684 DLY
CO	PHANTOM VALLEY	86-0688	40.3994	-105.8476	9030	0	0	43			86-0688 DLY
WA	QUARTZ PEAK	86-0707	47.8793	-117.0894	4700	0	0	36			86-0707 DLY
CO	RABBIT EARS	86-0709	40.3678	-106.7404	9400	0	0	38			86-0709 DLY
CO	RIPPLE CREEK	86-0717	40.1081	-107.2941	10340	0	0	37			86-0717 DLY
CO	ROACH	86-0718	40.875	-106.046	9700	0	17	42		86-0718 HLY	86-0718 DLY
UT	ROCK CREEK	86-0720	40.5488	-110.6929	7886	0	0	43			86-0720 DLY
OR	SCHNEIDER MEADOWS	86-0736	45.0011	-117.1652	5400	0	17	42		86-0736 HLY	86-0736 DLY
NV	SEVENTYSIX CREEK	86-0746	41.7373	-115.4722	7350	0	0	44			86-0746 DLY
UT	SMITH MOREHOUSE	86-0763	40.7893	-111.0919	7631	0	0	45			86-0763 DLY
UT	SNOWBIRD	86-0766	40.5691	-111.6585	9177	0	0	34			86-0766 DLY
UT	STEEL CREEK PARK	86-0790	40.9086	-110.5046	10158	0	0	45			86-0790 DLY
UT	STRAWBERRY DIVIDE	86-0795	40.1648	-111.2066	8123	0	0	45			86-0795 DLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
NV	TAYLOR CANYON	86-0811	41.2287	-116.0293	6325	0	0	43			86-0811 DLY
OR	TAYLOR GREEN	86-0812	45.0771	-117.5507	5740	0	0	44			86-0812 DLY
UT	THAYNES CANYON	86-0814	40.6235	-111.5332	9230	0	0	43			86-0814 DLY 42-6652 DLY
UT	TIMPANOGOS DIVIDE	86-0820	40.4282	-111.6163	8140	0	23	45		86-0820 HLY	86-0820 DLY
WA	TOUCHET	86-0824	46.1187	-117.8505	5530	0	0	42			86-0824 DLY
CO	TOWER	86-0825	40.5374	-106.6768	10500	0	0	44			86-0825 DLY
UT	TRIAL LAKE	86-0828	40.678	-110.9487	9992	0	0	45			86-0828 DLY
UT	TROUT CREEK	86-0833	40.739	-109.6728	9518	0	0	45			86-0833 DLY
CO	UNIVERSITY CAMP	86-0838	40.0328	-105.5761	10300	0	0	75			86-0838 DLY 80-0010 DLY 05-7648 HLY 05-7648 DLY
CO	WILLOW CREEK PASS	86-0869	40.347	-106.0943	9540	0	0	45			86-0869 DLY
CO	WILLOW PARK	86-0870	40.4325	-105.7334	10700	0	0	43			86-0870 DLY
UT	HARDSCRABBLE	86-0896	40.8683	-111.7187	7250	0	0	30			86-0896 DLY
SD	NORTH RAPID CREEK	86-0920	44.2062	-103.7876	6130	0	0	100			86-0920 DLY 39-1246 DLY
UT	PARRISH CREEK	86-0971	40.9342	-111.8137	7740	0	19	24		86-0971 HLY	86-0971 DLY
WA	SPRUCE SPRINGS	86-0984	46.1829	-117.5415	5700	0	21	23		86-0984 HLY	86-0984 DLY
UT	TEMPLE FORK	86-1013	41.793	-111.5461	7406	0	20	22		86-1013 HLY	86-1013 DLY
UT	LIGHTNING RIDGE	86-1056	41.3589	-111.4875	8215	0	16	19		86-1056 HLY	86-1056 DLY
SD	BELLE FOURCHE RVR @ WYOMING-SO	87-0143	44.7497	-104.0469	3100	0	23	23		87-0143 HLY 72-2970 HLY	87-0143 HLY 72-2970 HLY

State	Station name	SID	Latitude	Longitude	Elevation (ft)	Data Years			Contributing Stations		
						<1Hr	Hourly	Daily	<1Hr	Hourly	Daily
NE	MITCHELL GERING CANAL NEAR STA	87-1394	41.9828	-104.0578	4028	0	29	29		87-1394 HLY 87-1044 HLY	87-1394 HLY 87-1044 HLY
OR	BALTZOR RANCH NEAR SHEAVILLE	87-2631	43.107	-117.0604	4620	0	35	35		87-2631 HLY	87-2631 HLY
OR	BAKER VALLEY OREGON AGRIMET W	87-2761	44.8828	-117.9628	3420	0	20	20		87-2761 HLY	87-2761 HLY
OR	HEREFORD OREGON AGRIMET WEATH	87-3671	44.4881	-118.02	3600	0	23	24		87-3671 HLY	87-3671 HLY

Table A.1.3. Metadata for stations whose data were used in this Volume showing each station's state, name, station identification number (SID), formatting interval (see Table 4.2.2), latitude, longitude, elevation, dataset identifier (see Table 4.2.1), and the period of record.

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	ABERDEEN EXP STN	10-0010	DLY	42.9536	-112.8253	4405	NCEI	1914-2023
ID	AMERICAN FALLS 6 NE	10-0227	DLY	42.8572	-112.8800	4415	NCEI	1892-2008
ID	ANDERSON DAM	10-0282	DLY	43.3572	-115.4522	3882	NCEI	1941-2006
ID	ANDERSON DAM	10-0282	HLY	43.3572	-115.4522	3882	NCEI	1960-1983
ID	ARBON 2 NW	10-0347	DLY	42.5031	-112.5758	5210	NCEI	1962-2002
ID	ARCO	10-0375	DLY	43.6356	-113.2997	5325	NCEI	1914-2023
ID	ARROWROCK DAM	10-0448	15M	43.5936	-115.9236	3235	NCEI	1984-1985
ID	ARROWROCK DAM	10-0448	HLY	43.5936	-115.9236	3235	NCEI	1976-1985
ID	ARROWROCK DAM	10-0448	DLY	43.5936	-115.9236	3235	NCEI	1911-2009
ID	ASHTON 1N	10-0470	DLY	44.0708	-111.4564	5212	NCEI	1896-2023
ID	ATLANTA	10-0491	DLY	43.8000	-115.1333	5505	NCEI	1955-1975
ID	ATLANTA	10-0491	HLY	43.8000	-115.1333	5505	NCEI	1955-1975
ID	ATLANTA	10-0491	15M	43.8000	-115.1333	5505	NCEI	1971-1975
ID	ATLANTA 1 E	10-0493	HLY	43.8000	-115.1167	6004	NCEI	1948-1955
ID	ATLANTA 1 E	10-0493	DLY	43.8000	-115.1167	6004	NCEI	1893-1955
ID	ATLANTA 2	10-0494	DLY	43.8000	-115.1167	5594	NCEI	1956-1959
ID	ATLANTA 2	10-0494	HLY	43.8000	-115.1167	5594	NCEI	1956-1961
ID	AVERY RS	10-0525	DLY	47.2500	-115.8000	2490	NCEI	1913-1968
ID	AVERY RS #2	10-0528	DLY	47.2533	-115.9203	2394	NCEI	1968-2015
ID	BARTON FLAT	10-0621	DLY	43.9778	-113.8291	6500	NCEI	1933-1947
ID	BAYVIEW MODEL BASIN	10-0667	DLY	47.9803	-116.5594	2087	NCEI	1947-2023
ID	BENTON DAM	10-0789	HLY	48.3500	-116.8000	2641	NCEI	1948-1977
ID	BENTON DAM	10-0789	DLY	48.3503	-116.8081	2641	NCEI	1949-1951
ID	BERN	10-0803	DLY	42.3353	-111.3850	5964	NCEI	1992-2023
ID	BLACKFOOT FIRE DEPT	10-0915	DLY	43.1917	-112.3453	4499	NCEI	1895-2023
ID	BLACKFOOT DAM	10-0920	DLY	43.0000	-111.7167	6204	NCEI	1909-1971

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	BLACKFOOT DAM	10-0920	HL Y	43.0000	-111.7167	6204	NCEI	1948-1971
ID	BLISS 4 NW	10-1002	DLY	42.9544	-115.0131	3275	NCEI	1894-2000
ID	BOISE 3 E	10-1016	HL Y	43.6192	-116.1331	3377	NCEI	1972-2007
ID	BOISE 3 E	10-1016	15M	43.6192	-116.1331	3377	NCEI	1972-2007
ID	BOISE 7 N	10-1017	HL Y	43.7383	-116.2022	3885	NCEI	1949-1949
ID	BOISE 7 N	10-1017	DLY	43.7383	-116.2022	3885	NCEI	1973-2023
ID	BOISE LUCKY PEAK DAM	10-1018	DLY	43.5253	-116.0542	2840	NCEI	1950-2023
ID	BOISE LUCKY PEAK DAM	10-1018	15M	43.5253	-116.0542	2840	NCEI	1971-2013
ID	BOISE LUCKY PEAK DAM	10-1018	HL Y	43.5253	-116.0542	2840	NCEI	1951-2013
ID	BOISE AIR TERMINAL	10-1022	HL Y	43.5667	-116.2406	2872	NCEI	1948-2013
ID	BONNERS FERRY	10-1079	HL Y	48.6928	-116.3103	2001	NCEI	1948-2013
ID	BONNERS FERRY	10-1079	15M	48.6928	-116.3103	2001	NCEI	1975-2013
ID	BONNERS FERRY	10-1079	DLY	48.6928	-116.3103	2075	NCEI	1907-2023
ID	BONNERS FERRY BRG	10-1084	DLY	48.7000	-116.3167	1742	NCEI	1909-1939
ID	BROWNEE DAM	10-1180	DLY	44.8364	-116.8981	1844	NCEI	1966-2017
ID	BRUNEAU	10-1195	DLY	42.8819	-115.8017	2530	NCEI	1937-2012
ID	BUHL	10-1217	DLY	42.6000	-114.7667	3763	NCEI	1906-1963
ID	BUHL #2	10-1220	DLY	42.6006	-114.7453	3800	NCEI	1977-2015
ID	BURKE 2 ENE	10-1272	DLY	47.5284	-115.7887	4091	NCEI	1906-1967
ID	BURLEY	10-1288	DLY	42.5333	-113.7833	4183	NCEI	1917-1967
ID	BURLEY 2S	10-1298	HL Y	42.5189	-113.8028	4516	NCEI	1948-1978
ID	BURLEY 2S	10-1298	DLY	42.5189	-113.8028	4516	NCEI	1924-2008
ID	BURLEY MUNI AP	10-1303	HL Y	42.5417	-113.7661	4154	NCEI	1948-2013
ID	CABINET GORGE	10-1363	DLY	48.0864	-116.0572	2173	NCEI	1956-2023
ID	CALDER	10-1370	15M	47.2747	-116.1889	2185	NCEI	1971-2013
ID	CALDER	10-1370	HL Y	47.2747	-116.1889	2185	NCEI	1971-2013
ID	CALDWELL	10-1380	DLY	43.6667	-116.6833	2370	NCEI	1904-1997
ID	CAMBRIDGE	10-1408	DLY	44.5733	-116.6753	2650	NCEI	1893-2022

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	CAMBRIDGE 2 NE	10-1410	15M	44.5797	-116.6436	2660	NCEI	1971-2013
ID	CAMBRIDGE 2 NE	10-1410	HL Y	44.5797	-116.6436	2660	NCEI	1971-2013
ID	CASCADE 1 NW	10-1514	HL Y	44.5228	-116.0481	4896	NCEI	1953-2013
ID	CASCADE 1 NW	10-1514	15M	44.5228	-116.0481	4896	NCEI	1971-2013
ID	CASCADE 1 NW	10-1514	DLY	44.5228	-116.0481	4896	NCEI	1941-2017
ID	CASCADE RS	10-1524	DLY	44.5167	-116.0500	4754	NCEI	1949-1951
ID	CASCADE RS	10-1524	HL Y	44.5167	-116.0500	4754	NCEI	1948-1953
ID	CASTLEFORD 2 N	10-1551	DLY	42.5503	-114.8661	3825	NCEI	1963-2021
ID	CENTERVILLE ARBAUGH RCH	10-1636	HL Y	43.9592	-115.8453	4440	NCEI	1974-2013
ID	CENTERVILLE ARBAUGH RCH	10-1636	DLY	43.9592	-115.8453	4440	NCEI	1949-2013
ID	CENTERVILLE ARBAUGH RCH	10-1636	15M	43.9592	-115.8453	4440	NCEI	1974-2013
ID	CHALLIS	10-1663	HL Y	44.5036	-114.2397	5175	NCEI	1960-1986
ID	CHALLIS	10-1663	DLY	44.5036	-114.2397	5175	NCEI	1894-1996
ID	CHALLIS	10-1663	15M	44.5036	-114.2397	5175	NCEI	1984-1986
ID	CHILLY BARTON FLAT	10-1671	DLY	43.9778	-113.8292	6260	NCEI	1948-2023
ID	CLARKIA	10-1831	DLY	47.0111	-116.2558	2822	NCEI	1949-2015
ID	CLARKIA	10-1831	HL Y	47.0111	-116.2558	2822	NCEI	1948-2001
ID	CLARKIA	10-1831	15M	47.0111	-116.2558	2822	NCEI	1971-2001
ID	CLEMENTSVILLE 4 SE	10-1881	DLY	43.8500	-111.2667	5906	NCEI	1949-1951
ID	CLEMENTSVILLE 4 SE	10-1881	HL Y	43.8500	-111.2667	5906	NCEI	1948-1952
ID	COEUR D'ALENE	10-1956	HL Y	47.6822	-116.7967	2133	NCEI	1948-2013
ID	COEUR D'ALENE	10-1956	DLY	47.6822	-116.7967	2133	NCEI	1895-2023
ID	COEUR D'ALENE	10-1956	15M	47.6822	-116.7967	2133	NCEI	1971-2013
ID	CONDA	10-2071	DLY	42.7167	-111.5500	6204	NCEI	1938-1978
ID	COTTONWOOD	10-2154	DLY	46.0167	-116.3333	3412	NCEI	1893-1976
ID	COTTONWOOD	10-2154	HL Y	46.0167	-116.3333	3412	NCEI	1948-1949
ID	COTTONWOOD 2 WSW	10-2159	15M	46.0336	-116.3919	3945	NCEI	1978-2013
ID	COTTONWOOD 2 WSW	10-2159	HL Y	46.0336	-116.3919	3945	NCEI	1948-2013

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	COTTONWOOD 2 WSW	10-2159	DLY	46.0336	-116.3919	3945	NCEI	1949-2023
ID	COUNCIL	10-2187	HLY	44.7442	-116.4325	2943	NCEI	1948-2013
ID	COUNCIL	10-2187	DLY	44.7442	-116.4325	2943	NCEI	1911-2022
ID	COUNCIL	10-2187	15M	44.7442	-116.4325	2943	NCEI	1971-2013
ID	CRATERS OF THE MOON	10-2260	DLY	43.4628	-113.5600	5914	NCEI	1958-2023
ID	DEADWOOD DAM	10-2385	DLY	44.3167	-115.6333	5384	NCEI	1929-1975
ID	DEADWOOD DAM	10-2385	15M	44.3167	-115.6333	5384	NCEI	1971-1974
ID	DEADWOOD DAM	10-2385	HLY	44.3167	-115.6333	5384	NCEI	1948-1974
ID	DEER FLAT DAM	10-2444	DLY	43.5764	-116.7475	2510	NCEI	1916-2014
ID	DIXIE	10-2575	HLY	45.5525	-115.4606	5620	NCEI	1978-2013
ID	DIXIE	10-2575	DLY	45.5525	-115.4606	5620	NCEI	1952-2008
ID	DIXIE	10-2575	15M	45.5525	-115.4606	5620	NCEI	1978-2013
ID	DIXIE N	10-2577	DLY	45.5697	-115.4528	5740	NCEI	2008-2023
ID	DRIGGS	10-2676	HLY	43.7306	-111.1125	6120	NCEI	1953-1953
ID	DRIGGS	10-2676	DLY	43.7306	-111.1125	6120	NCEI	1904-2023
ID	DUBOIS EXP STN	10-2707	HLY	44.2436	-112.2003	5450	NCEI	1948-2013
ID	DUBOIS EXP STN	10-2707	15M	44.2436	-112.2003	5450	NCEI	1979-2013
ID	DUBOIS EXP STN	10-2707	DLY	44.2436	-112.2006	5450	NCEI	1924-2023
ID	DWORSHAK FISH HATCHERY	10-2845	DLY	46.5022	-116.3217	995	NCEI	1966-2023
ID	DWORSHAK FISH HATCHERY	10-2845	15M	46.5022	-116.3217	995	NCEI	1971-2013
ID	DWORSHAK FISH HATCHERY	10-2845	HLY	46.5022	-116.3217	995	NCEI	1966-2013
ID	ELK CITY 1NE	10-2875	DLY	45.8356	-115.4611	4058	NCEI	1913-2013
ID	ELK CITY 1NE	10-2875	15M	45.8356	-115.4611	4058	NCEI	1979-2013
ID	ELK CITY 1NE	10-2875	HLY	45.8356	-115.4611	4058	NCEI	1979-2013
ID	ELK RVR	10-2892	HLY	46.7744	-116.1761	2845	NCEI	1971-2013
ID	ELK RVR	10-2892	15M	46.7744	-116.1761	2845	NCEI	1971-2013
ID	ELK RVR	10-2892	DLY	46.7822	-116.1797	2866	NCEI	1951-2022
ID	EMMETT 2 E	10-2942	DLY	43.8544	-116.4664	2390	NCEI	1906-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	ENAVILLE	10-2966	HL Y	47.5689	-116.2531	2120	NCEI	1976-2013
ID	ENAVILLE	10-2966	15M	47.5689	-116.2531	2120	NCEI	1976-2013
ID	ENAVILLE 2	10-2971	HL Y	47.5667	-116.2500	2402	NCEI	1972-1976
ID	ENAVILLE 2	10-2971	15M	47.5667	-116.2500	2402	NCEI	1972-1976
ID	FAIRFIELD RS	10-3108	DLY	43.3428	-114.7900	5065	NCEI	1948-2023
ID	FAIRFIELD 3 SE	10-3110	DLY	43.3167	-114.7500	5020	NCEI	1977-1998
ID	FENN RS	10-3143	DLY	46.0931	-115.5356	1560	NCEI	1939-2022
ID	FENN RS	10-3143	15M	46.0931	-115.5356	1560	NCEI	1971-2013
ID	FENN RS	10-3143	HL Y	46.0931	-115.5356	1560	NCEI	1952-2013
ID	FT HALL 1 NNE	10-3297	DLY	43.0425	-112.4144	4465	NCEI	1913-2023
ID	GALENA	10-3417	DLY	43.8722	-114.6542	7300	NCEI	1963-1996
ID	GARDEN VALLEY	10-3448	DLY	44.1011	-115.9694	3100	NCEI	1892-2020
ID	GIBBONSVILLE	10-3554	DLY	45.5394	-113.9275	4480	NCEI	1894-2011
ID	GIBBONSVILLE #2	10-3558	DLY	45.5469	-113.9258	4480	NCEI	2004-2023
ID	GLENNS FERRY	10-3631	DLY	42.9403	-115.3231	2466	NCEI	1904-2023
ID	GOODING 1 S	10-3677	HL Y	42.9183	-114.7664	3643	NCEI	1952-2013
ID	GOODING 1 S	10-3677	15M	42.9183	-114.7664	3643	NCEI	1971-2013
ID	GOODING 2 S	10-3682	HL Y	42.9167	-114.7167	3570	NCEI	1948-1952
ID	GRACE	10-3732	15M	42.5872	-111.7275	5550	NCEI	1978-2013
ID	GRACE	10-3732	DLY	42.5872	-111.7275	5550	NCEI	1906-2023
ID	GRACE	10-3732	HL Y	42.5872	-111.7275	5550	NCEI	1952-2013
ID	GRAND VIEW 4 NW	10-3760	DLY	43.0175	-116.1772	2400	NCEI	1909-2010
ID	GRANGEVILLE	10-3771	DLY	45.9414	-116.1175	3300	NCEI	1893-2014
ID	GRANGEVILLE	10-3771	HL Y	45.9414	-116.1175	3300	NCEI	1948-1951
ID	GRANGEVILLE 1N	10-3773	HL Y	45.9397	-116.1211	3310	NCEI	1999-2013
ID	GRANGEVILLE 1N	10-3773	15M	45.9397	-116.1211	3310	NCEI	1999-2013
ID	GRASMERE 3 S	10-3811	HL Y	42.3450	-115.8836	5140	NCEI	1963-2013
ID	GRASMERE 3 S	10-3811	15M	42.3450	-115.8836	5140	NCEI	1975-2013

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	GRAY	10-3825	DLY	43.0500	-111.3667	6450	NCEI	1897-1955
ID	GRIMES PASS 6 S	10-3861	DLY	43.9667	-115.8500	4783	NCEI	1909-1949
ID	GROUSE	10-3882	DLY	43.7186	-113.5472	6001	NCEI	1932-2004
ID	HAGERMAN 2 SW	10-3932	DLY	42.8114	-114.9239	2897	NCEI	1982-2018
ID	HAILEY 3 NNW	10-3942	DLY	43.5667	-114.3333	5424	NCEI	1894-1988
ID	HAMER 4 NW	10-3964	DLY	43.9664	-112.2642	4790	NCEI	1948-2023
ID	HAZELTON	10-4140	DLY	42.5972	-114.1378	4060	NCEI	1917-2018
ID	HEADQUARTERS	10-4150	DLY	46.6311	-115.8086	3200	NCEI	1959-2010
ID	HEADQUARTERS	10-4150	15M	46.6311	-115.8086	3200	NCEI	1998-2013
ID	HEADQUARTERS	10-4150	HLY	46.6311	-115.8086	3200	NCEI	1998-2013
ID	HEADQUARTERS 1 SSE	10-4154	DLY	46.6131	-115.7989	3260	NCEI	2010-2016
ID	HEADQUARTERS 1 SSE	10-4154	15M	46.6131	-115.7989	3260	NCEI	1993-1997
ID	HEADQUARTERS 1 SSE	10-4154	HLY	46.6131	-115.7989	3260	NCEI	1993-1997
ID	HENRY	10-4230	DLY	42.9419	-111.4361	6644	NCEI	1971-2008
ID	HENRY	10-4230	15M	42.9419	-111.4361	6644	NCEI	1971-2012
ID	HENRY	10-4230	HLY	42.9419	-111.4361	6644	NCEI	1971-2012
ID	HILL CITY 1 W	10-4268	DLY	43.2994	-115.0733	5100	NCEI	1915-2023
ID	HOLLISTER	10-4295	DLY	42.3528	-114.5739	4525	NCEI	1912-2020
ID	HOWE	10-4384	DLY	43.7828	-113.0033	4820	NCEI	1913-2023
ID	IDAHO CITY	10-4442	DLY	43.8383	-115.8319	3965	NCEI	1893-2013
ID	IDAHO CITY 11 SW	10-4450	DLY	43.7167	-116.0000	5003	NCEI	1948-1963
ID	IDAHO FALLS - KIFI	10-4455	HLY	43.5139	-112.0125	4742	NCEI	1952-1960
ID	IDAHO FALLS - KIFI	10-4455	DLY	43.5139	-112.0125	4742	NCEI	1952-2023
ID	IDAHO FALLS 16 SE	10-4456	HLY	43.3456	-111.7847	5828	NCEI	1960-2013
ID	IDAHO FALLS 16 SE	10-4456	DLY	43.3456	-111.7847	5828	NCEI	1955-2023
ID	IDAHO FALLS 16 SE	10-4456	15M	43.3456	-111.7847	5828	NCEI	1971-2013
ID	IDAHO FALLS FAA AP	10-4457	HLY	43.5189	-112.0639	4733	NCEI	1948-1952
ID	IDAHO FALLS 46 W	10-4460	HLY	43.5325	-112.9481	4938	NCEI	1954-1982

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	IRWIN 2 SE	10-4588	DLY	43.4000	-111.3000	5305	NCEI	1909-1960
ID	ISLAND PARK	10-4598	15M	44.4203	-111.3711	6290	NCEI	2000-2013
ID	ISLAND PARK	10-4598	DLY	44.4189	-111.3714	6290	NCEI	1936-2023
ID	ISLAND PARK	10-4598	HLY	44.4203	-111.3711	6290	NCEI	2000-2013
ID	JEROME	10-4670	DLY	42.7325	-114.5192	3740	NCEI	1915-2023
ID	KAMIAH	10-4793	DLY	46.2300	-116.0339	1210	NCEI	1912-2023
ID	KELLOGG	10-4831	DLY	47.5339	-116.1222	2377	NCEI	1904-2023
ID	KETCHUM RS	10-4845	15M	43.6842	-114.3603	5890	NCEI	1975-2013
ID	KETCHUM RS	10-4845	HLY	43.6842	-114.3603	5890	NCEI	1973-2013
ID	KETCHUM RS	10-4845	DLY	43.6842	-114.3603	5890	NCEI	1973-2023
ID	KOOSKIA	10-5011	DLY	46.1448	-115.9779	1280	NCEI	1908-1987
ID	KUNA	10-5038	DLY	43.4833	-116.4167	2690	NCEI	1925-1996
ID	LEADORE	10-5169	DLY	44.6867	-113.3689	6000	NCEI	1911-1951
ID	LEADORE	10-5169	HLY	44.6867	-113.3689	6000	NCEI	1948-2009
ID	LEADORE	10-5169	15M	44.6867	-113.3689	6000	NCEI	1979-2009
ID	LEADORE #2	10-5177	DLY	44.6831	-113.3622	6000	NCEI	1965-2023
ID	LEADORE #2	10-5177	HLY	44.6831	-113.3622	6000	NCEI	2009-2013
ID	LEADORE #2	10-5177	15M	44.6831	-113.3622	6000	NCEI	2009-2013
ID	LEWISTON	10-5230	DLY	46.4167	-117.0333	708	NCEI	1895-1957
ID	LEWISTON WTP	10-5236	DLY	46.4167	-117.0167	741	NCEI	1893-1955
ID	LEWISTON AP	10-5241	HLY	46.3747	-117.0156	1442	NCEI	1949-2013
ID	LIFTON PUMPING STN	10-5275	DLY	42.1231	-111.3133	5935	NCEI	1919-2023
ID	LOWMAN	10-5414	DLY	44.0828	-115.6186	3920	NCEI	1909-2008
ID	LOWMAN 3 E	10-5420	DLY	44.0751	-115.5567	3871	NCEI	1961-1964
ID	LOWMAN 3E #2	10-5426	DLY	44.0751	-115.5567	3983	NCEI	1964-1975
ID	MACKAY LOST RVR RS	10-5462	15M	43.9178	-113.6153	5897	NCEI	1978-2013
ID	MACKAY LOST RVR RS	10-5462	DLY	43.9178	-113.6153	5897	NCEI	1907-2023
ID	MACKAY LOST RVR RS	10-5462	HLY	43.9178	-113.6153	5897	NCEI	1948-2013

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	MALAD	10-5544	DLY	42.2000	-112.2667	4581	NCEI	1903-1982
ID	MALAD	10-5544	HLY	42.2000	-112.2667	4581	NCEI	1948-1978
ID	MALTA 4 ESE	10-5563	DLY	42.2917	-113.3042	4590	NCEI	1963-2002
ID	MALTA	10-5567	DLY	42.3061	-113.3689	4521	NCEI	1984-2018
ID	MALTA	10-5567	HLY	42.3061	-113.3689	4521	NCEI	1952-2010
ID	MALTA	10-5567	15M	42.3061	-113.3689	4521	NCEI	1977-2010
ID	MASSACRE ROCKS SP	10-5678	DLY	42.6681	-112.9981	4195	NCEI	1973-2023
ID	MAY 2SSE	10-5685	DLY	44.5664	-113.8953	5050	NCEI	1933-2019
ID	MCCALL	10-5708	DLY	44.8872	-116.1047	5025	NCEI	1905-2023
ID	MCCALL	10-5708	15M	44.8872	-116.1047	5025	NCEI	1971-2013
ID	MCCALL	10-5708	HLY	44.8872	-116.1047	5025	NCEI	1971-2013
ID	MCCAMMON	10-5716	DLY	42.6522	-112.1936	4770	NCEI	1949-2023
ID	MERIDIAN 1 W	10-5841	DLY	43.6167	-116.4167	2621	NCEI	1910-1960
ID	MIDDLE FORK LODGE	10-5897	HLY	44.7189	-115.0150	4480	NCEI	1976-2013
ID	MIDDLE FORK LODGE	10-5897	15M	44.7189	-115.0150	4480	NCEI	1976-2013
ID	MIDDLE FORK LODGE	10-5897	DLY	44.7189	-115.0150	4480	NCEI	1971-2013
ID	MINIDOKA DAM	10-5980	DLY	42.6769	-113.5022	4164	NCEI	1947-2023
ID	MONTPELIER RS	10-6053	DLY	42.3167	-111.3000	5960	NCEI	1914-1991
ID	MOSCOW 5 NE	10-6148	HLY	46.7942	-116.9150	3043	NCEI	1972-2013
ID	MOSCOW 5 NE	10-6148	15M	46.7942	-116.9150	3043	NCEI	1972-2013
ID	MOSCOW U OF I	10-6152	DLY	46.7281	-116.9558	2660	NCEI	1893-2023
ID	MTN HOME	10-6174	15M	43.1261	-115.7119	3140	NCEI	1971-2013
ID	MTN HOME	10-6174	HLY	43.1261	-115.7119	3140	NCEI	1948-2013
ID	MTN HOME	10-6174	DLY	43.1261	-115.7119	3140	NCEI	1905-2007
ID	MULLAN	10-6230	15M	47.4661	-115.8114	3201	NCEI	1972-2013
ID	MULLAN	10-6230	HLY	47.4661	-115.8114	3201	NCEI	1972-2013
ID	MULLAN	10-6230	DLY	47.4661	-115.8114	3201	NCEI	1975-2023
ID	MULLEN PASS	10-6237	HLY	47.4500	-115.6667	5963	NCEI	1948-1953

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	MURPHY (DESERT) HOT SPRINGS	10-6250	HL Y	42.0264	-115.3597	5152	NCEI	1987-2013
ID	MURPHY (DESERT) HOT SPRINGS	10-6250	15M	42.0264	-115.3597	5152	NCEI	1987-2013
ID	MURPHY (DESERT) HOT SPRINGS	10-6250	DLY	42.0264	-115.3597	5152	NCEI	1987-2023
ID	NAMPA	10-6295	DLY	43.5833	-116.5667	2480	NCEI	1893-1951
ID	NAMPA 2 NW	10-6300	DLY	43.6167	-116.5833	2470	NCEI	1945-1960
ID	NAMPA SUGAR FACTORY	10-6305	DLY	43.6039	-116.5753	2470	NCEI	1976-2015
ID	NEW MEADOWS RS	10-6388	DLY	44.9714	-116.2933	3862	NCEI	1904-2023
ID	NEZPERCE	10-6421	DLY	46.2333	-116.2333	3081	NCEI	1948-1951
ID	NEZPERCE	10-6424	DLY	46.2325	-116.2430	3248	NCEI	1901-2020
ID	OAKLEY	10-6542	DLY	42.2342	-113.8981	4559	NCEI	1893-2023
ID	OBSIDIAN 3 SSE	10-6553	DLY	44.0333	-114.8333	6873	NCEI	1919-1962
ID	OLA	10-6586	DLY	44.1758	-116.2828	3075	NCEI	1896-2017
ID	OLA	10-6586	HL Y	44.1758	-116.2828	3075	NCEI	1948-2013
ID	OLA	10-6586	15M	44.1758	-116.2828	3075	NCEI	1991-2013
ID	OLA 4 S	10-6590	HL Y	44.1333	-116.2833	2990	NCEI	1951-1988
ID	OLA 4 S	10-6590	15M	44.1333	-116.2833	2990	NCEI	1971-1988
ID	OLA 4 S	10-6590	DLY	44.1333	-116.2833	2990	NCEI	1951-1988
ID	OROFINO	10-6681	DLY	46.4823	-116.2488	1046	NCEI	1903-1981
ID	PALISADES	10-6764	HL Y	43.3500	-111.2167	5385	NCEI	1960-1985
ID	PALISADES	10-6764	15M	43.3500	-111.2167	5385	NCEI	1984-1985
ID	PALISADES	10-6764	DLY	43.3500	-111.2167	5385	NCEI	1947-1993
ID	PARMA EXP STN	10-6844	DLY	43.8022	-116.9442	2290	NCEI	1922-2023
ID	PAUL 1ENE	10-6877	DLY	42.6117	-113.7628	4150	NCEI	1924-2018
ID	PAYETTE	10-6891	DLY	44.0764	-116.9311	2150	NCEI	1892-2023
ID	PICABO	10-7040	DLY	43.3086	-114.0667	4839	NCEI	1958-2023
ID	PIERCE	10-7046	HL Y	46.4922	-115.8006	3080	NCEI	1963-2013
ID	PIERCE	10-7046	DLY	46.4922	-115.8006	3080	NCEI	1962-2023
ID	PIERCE	10-7046	15M	46.4922	-115.8006	3080	NCEI	1975-2013

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	PIERCE 2	10-7047	DLY	46.5000	-115.8000	3081	NCEI	1974-1975
ID	PIERCE RS	10-7049	HLY	46.5000	-115.8000	3173	NCEI	1948-1963
ID	PIERCE RS	10-7049	DLY	46.5000	-115.8000	3173	NCEI	1913-1962
ID	PINE 2 S	10-7079	DLY	43.4667	-115.3167	4232	NCEI	1909-1953
ID	PLUMMER 3 WSW	10-7188	DLY	47.3111	-116.9544	2905	NCEI	1949-2023
ID	PLUMMER 3 WSW	10-7188	15M	47.3111	-116.9544	2905	NCEI	1976-2013
ID	PLUMMER 3 WSW	10-7188	HLY	47.3111	-116.9544	2905	NCEI	1948-2013
ID	POCATELLO 2 NE	10-7208	DLY	42.8917	-112.4086	4832	NCEI	1899-2017
ID	POCATELLO CITY	10-7210	DLY	42.8750	-112.4469	4460	NCEI	2004-2023
ID	POCATELLO RGNL AP	10-7211	HLY	42.9203	-112.5711	4452	NCEI	1948-2013
ID	PORTHILL 1 SW	10-7264	DLY	48.9939	-116.5025	1799	NCEI	1892-2021
ID	PORTHILL 1 SW	10-7269	HLY	48.9939	-116.5025	1799	NCEI	1971-2013
ID	PORTHILL 1 SW	10-7269	15M	48.9939	-116.5025	1799	NCEI	1971-2013
ID	POTLATCH 3 NNE	10-7301	DLY	46.9603	-116.8550	2760	NCEI	1914-2023
ID	POWELL	10-7320	DLY	46.5100	-114.7111	3530	NCEI	1962-2013
ID	PRAIRIE	10-7327	HLY	43.5064	-115.5717	4780	NCEI	1960-2013
ID	PRAIRIE	10-7327	DLY	43.5064	-115.5717	4780	NCEI	1925-1950
ID	PRAIRIE	10-7327	15M	43.5064	-115.5717	4780	NCEI	1977-2013
ID	PRESTON	10-7346	DLY	42.0933	-111.8825	4719	NCEI	1964-2023
ID	PRESTON SUGAR FACTORY	10-7353	DLY	42.0667	-111.8500	4724	NCEI	1921-1980
ID	PRIEST RVR EXP STN	10-7386	DLY	48.3511	-116.8353	2371	NCEI	1897-2023
ID	REXBURG KRXX	10-7642	DLY	43.8167	-111.7833	4920	NCEI	1896-1968
ID	REXBURG BYU IDAHO	10-7644	DLY	43.8083	-111.7892	5005	NCEI	1977-2023
ID	RICHFIELD	10-7673	DLY	43.0517	-114.1550	4309	NCEI	1909-2023
ID	RIGGINS	10-7706	DLY	45.4239	-116.3150	1800	NCEI	1895-2023
ID	ROLAND WEST PORTAL	10-7858	DLY	47.3789	-115.6684	4154	NCEI	1921-1953
ID	RUPERT 3 WSW	10-7968	DLY	42.6022	-113.7233	4200	NCEI	1906-2022
ID	SAINT ANTHONY	10-8022	DLY	43.9517	-111.6789	4910	NCEI	1895-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	SAINT MARIES	10-8062	DLY	47.3164	-116.5789	2151	NCEI	1897-2023
ID	SALEM	10-8072	DLY	43.8667	-111.7500	5000	NCEI	1904-1909
ID	SALMON AP	10-8076	DLY	45.2000	-113.8667	4044	NCEI	1905-2023
ID	SALMON-KSRA	10-8080	DLY	45.1731	-113.8856	3953	NCEI	1967-2023
ID	SANDPOINT EXP STN	10-8137	HLY	48.2942	-116.5628	2126	NCEI	1960-2013
ID	SANDPOINT EXP STN	10-8137	15M	48.2942	-116.5628	2126	NCEI	1972-2013
ID	SANDPOINT EXP STN	10-8137	DLY	48.2942	-116.5628	2126	NCEI	1910-2023
ID	SHOSHONE 1 WNW	10-8380	DLY	42.9383	-114.4169	3950	NCEI	1908-2023
ID	SHOUP	10-8395	DLY	45.3767	-114.2775	3400	NCEI	1965-2011
ID	SODA SPRINGS AP	10-8535	DLY	42.6514	-111.5833	5842	NCEI	1978-2012
ID	SOLDIER CREEK ADM SITE	10-8548	DLY	43.4833	-114.8167	5745	NCEI	1894-1948
ID	SPENCER	10-8604	DLY	44.3606	-112.1864	5892	NCEI	1915-2013
ID	SPRINGFIELD 1 SE	10-8626	DLY	43.0667	-112.6833	4413	NCEI	1908-1956
ID	STANLEY	10-8676	DLY	44.2208	-114.9347	6249	NCEI	1916-2023
ID	SUGAR CITY	10-8818	DLY	43.8867	-111.7367	4925	NCEI	1907-2023
ID	SUN VALLEY	10-8906	DLY	43.7000	-114.3500	5980	NCEI	1937-1972
ID	SUN VALLEY	10-8906	HLY	43.7000	-114.3500	5980	NCEI	1948-1973
ID	SWAN FALLS PH	10-8928	DLY	43.2436	-116.3783	2325	NCEI	1935-2023
ID	SWAN VALLEY	10-8937	DLY	43.4372	-111.2792	5397	NCEI	1960-2023
ID	TAYLOR RCH	10-9000	DLY	45.1017	-114.8508	3835	NCEI	1974-2014
ID	TETONIA EXP STN	10-9065	HLY	43.8564	-111.2769	6170	NCEI	1952-2013
ID	TETONIA EXP STN	10-9065	15M	43.8564	-111.2769	6170	NCEI	1972-2013
ID	TETONIA EXP STN	10-9065	DLY	43.8564	-111.2769	6170	NCEI	1950-2023
ID	THREE CREEK	10-9119	15M	42.0833	-115.1500	5460	NCEI	1975-1987
ID	THREE CREEK	10-9119	HLY	42.0833	-115.1500	5460	NCEI	1961-1987
ID	THREE CREEK	10-9119	DLY	42.0833	-115.1500	5460	NCEI	1940-1987
ID	TOPAZ	10-9158	15M	42.6250	-112.0881	4918	NCEI	1978-2013
ID	TOPAZ	10-9158	HLY	42.6250	-112.0881	4918	NCEI	1978-2013

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	TWIN FALLS-KMVT	10-9293	DLY	42.5808	-114.4569	3670	NCEI	1979-2012
ID	TWIN FALLS 2 NNE	10-9294	DLY	42.5833	-114.4667	3691	NCEI	1905-1974
ID	TWIN FALLS 3 SE	10-9299	DLY	42.5333	-114.4167	3773	NCEI	1924-1977
ID	TWIN FALLS 6 E	10-9303	15M	42.5458	-114.3461	3960	NCEI	1984-2001
ID	TWIN FALLS 6 E	10-9303	DLY	42.5458	-114.3461	3960	NCEI	1963-2012
ID	TWIN FALLS 6 E	10-9303	HLY	42.5458	-114.3461	3960	NCEI	1978-2001
ID	VAN WYCK	10-9380	DLY	44.5160	-116.0767	4800	NCEI	1908-1910
ID	WALLACE	10-9493	DLY	47.4667	-115.9333	2772	NCEI	1907-1962
ID	WALLACE	10-9498	HLY	47.4753	-115.9314	2710	NCEI	1948-1973
ID	WALLACE	10-9498	DLY	47.4753	-115.9314	2710	NCEI	1940-2023
ID	WARREN	10-9560	DLY	45.2658	-115.6789	5907	NCEI	1894-2011
ID	WEISER TELEMAR	10-9637	DLY	44.2500	-116.9833	2090	NCEI	1903-1911
ID	WEISER	10-9638	DLY	44.2456	-116.9697	2120	NCEI	1911-2012
ID	WINCHESTER 1 SE	10-9840	DLY	46.2333	-116.6167	3953	NCEI	1939-1965
ID	WINCHESTER	10-9846	DLY	46.2381	-116.6233	3972	NCEI	1965-2015
ID	YELLOWPINE 7 S	10-9951	DLY	44.8542	-115.5114	5100	NCEI	1970-2007
ID	YELLOWPINE 7 S	10-9951	HLY	44.8542	-115.5114	5100	NCEI	1970-2013
ID	YELLOWPINE 7 S	10-9951	15M	44.8542	-115.5114	5100	NCEI	1974-2013
ID	YELLOWPINE BAR	10-9963	15M	45.5450	-115.2514	2480	NCEI	1987-2013
ID	YELLOWPINE BAR	10-9963	DLY	45.5450	-115.2514	2480	NCEI	1986-2014
ID	YELLOWPINE BAR	10-9963	HLY	45.5450	-115.2514	2480	NCEI	1987-2013
MT	ABSAROKEE	24-0019	HLY	45.5442	-109.3936	3955	NCEI	1971-2013
MT	ABSAROKEE	24-0019	15M	45.5442	-109.3936	3955	NCEI	1971-2013
MT	ADEL	24-0056	DLY	47.0092	-111.6742	5017	NCEI	1898-2023
MT	ALBERTON	24-0075	DLY	47.0036	-114.4781	3060	NCEI	1958-2023
MT	ALBION 1 N	24-0088	DLY	45.2089	-104.2647	3312	NCEI	1945-2021
MT	ALDER	24-0100	HLY	45.3167	-112.1167	5125	NCEI	1950-1958
MT	ALDER	24-0100	DLY	45.3167	-112.1167	5125	NCEI	1950-1980

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	ALDER 17 S	24-0110	DLY	45.0708	-112.0575	5850	NCEI	1956-2008
MT	ALDER 19S	24-0111	DLY	45.0961	-112.0856	5749	NCEI	2008-2023
MT	ALZADA	24-0165	HLY	45.0156	-104.4108	3450	NCEI	1948-2013
MT	ALZADA	24-0165	DLY	45.0156	-104.4108	3450	NCEI	1904-1951
MT	ALZADA	24-0165	15M	45.0156	-104.4108	3450	NCEI	1984-2013
MT	ANACONDA	24-0199	DLY	46.1308	-112.9333	5230	NCEI	1894-2023
MT	ARMSTEAD	24-0274	DLY	44.9667	-112.8667	5496	NCEI	1949-1952
MT	ARMSTEAD	24-0274	HLY	44.9667	-112.8667	5496	NCEI	1949-1963
MT	ASHLAND RANGER STATION	24-0330	DLY	45.5939	-106.2722	2940	NCEI	1950-1951
MT	ASHLAND RS	24-0330	HLY	45.5939	-106.2722	2940	NCEI	1948-2013
MT	ASHLAND RS	24-0330	15M	45.5939	-106.2722	2940	NCEI	1973-2013
MT	AUGUSTA	24-0364	DLY	47.4925	-112.3969	4070	NCEI	1896-2023
MT	AUGUSTA	24-0364	15M	47.4925	-112.3969	4070	NCEI	1971-2013
MT	AUGUSTA	24-0364	HLY	47.4925	-112.3969	4070	NCEI	1949-2013
MT	AUSTIN 1 W	24-0375	DLY	46.6456	-112.2656	4851	NCEI	1950-2017
MT	BABB 6 NE	24-0392	DLY	48.9389	-113.3719	4300	NCEI	1906-2011
MT	BAKER	24-0412	DLY	46.3661	-104.2822	2933	NCEI	1922-2013
MT	BALLANTINE	24-0432	DLY	45.9497	-108.1439	3000	NCEI	1919-2011
MT	BARBER	24-0466	DLY	46.3108	-109.3719	3730	NCEI	1940-1998
MT	BAYLOR	24-0554	DLY	48.6714	-106.4808	2963	NCEI	1941-2016
MT	BAYLOR	24-0554	15M	48.6714	-106.4808	2963	NCEI	1984-2013
MT	BAYLOR	24-0554	HLY	48.6714	-106.4808	2963	NCEI	1948-2013
MT	BOZEMAN GALLATIN FLD AP	24-0622	HLY	45.7881	-111.1608	4427	NCEI	1948-2013
MT	BELLTOWER	24-0636	DLY	45.6947	-104.3856	3234	NCEI	1949-2023
MT	BIDDLE	24-0739	DLY	45.1008	-105.3186	3312	NCEI	1918-2023
MT	BIDDLE 8 SW	24-0743	DLY	45.0428	-105.4800	3631	NCEI	1963-2023
MT	BIGFORK 13 S	24-0755	DLY	47.8769	-114.0336	2979	NCEI	1938-2023
MT	BIG SANDY	24-0770	DLY	48.1347	-110.0592	2770	NCEI	1921-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	BIG TIMBER	24-0780	DLY	45.8325	-109.9511	4100	NCEI	1894-2023
MT	BILLINGS WTP	24-0802	HLY	45.7717	-108.4811	3097	NCEI	1948-1948
MT	BILLINGS WTP	24-0802	DLY	45.7717	-108.4811	3097	NCEI	1894-2023
MT	BILLINGS INTL AP	24-0807	HLY	45.8069	-108.5422	3581	NCEI	1948-2013
MT	BIRNEY	24-0819	DLY	45.3247	-106.5125	3160	NCEI	1954-1999
MT	BLACKLEAF	24-0877	DLY	48.0128	-112.4369	4235	NCEI	1904-2010
MT	BLOOMFIELD 6 E	24-0926	HLY	47.4167	-104.8000	2552	NCEI	1948-1968
MT	BLOOMFIELD 6 E	24-0926	DLY	47.4167	-104.8000	2552	NCEI	1908-1968
MT	BOULDER	24-1008	DLY	46.2311	-112.1139	4904	NCEI	1880-2023
MT	BOULDER	24-1008	15M	46.2311	-112.1139	4904	NCEI	1971-2013
MT	BOULDER	24-1008	HLY	46.2311	-112.1139	4904	NCEI	1948-2013
MT	BOZEMAN MONTANA STATE UNIV	24-1044	DLY	45.6622	-111.0464	4913	NCEI	1892-2023
MT	BOZEMAN 6 W EXP FARM	24-1047	DLY	45.6728	-111.1547	4775	NCEI	1966-2023
MT	BOZEMAN 6 W EXP FARM	24-1047	15M	45.6728	-111.1547	4775	NCEI	1984-2000
MT	BOZEMAN 6 W EXP FARM	24-1047	HLY	45.6728	-111.1547	4775	NCEI	1976-2006
MT	BOZEMAN 12 NE	24-1050	DLY	45.8167	-110.8833	5950	NCEI	1950-1995
MT	BRADY AZNOE	24-1080	DLY	47.9500	-111.3333	3333	NCEI	1912-1982
MT	BRADY 27 ENE (THE KNEES)	24-1081	DLY	48.0750	-111.2603	3325	NCEI	1986-2023
MT	BRANDENBERG	24-1084	DLY	45.8161	-106.2328	2770	NCEI	1956-2023
MT	BREDETTE	24-1088	15M	48.5156	-105.2992	2313	NCEI	1984-2013
MT	BREDETTE	24-1088	DLY	48.5156	-105.2992	2313	NCEI	1950-2023
MT	BREDETTE	24-1088	HLY	48.5156	-105.2992	2313	NCEI	1940-2013
MT	BRIDGER 2 N	24-1102	15M	45.3261	-108.9092	3583	NCEI	1984-2013
MT	BRIDGER 2 N	24-1102	DLY	45.3261	-108.9092	3583	NCEI	1900-2023
MT	BRIDGER 2 N	24-1102	HLY	45.3261	-108.9092	3583	NCEI	1948-2013
MT	BROADUS	24-1127	15M	45.4442	-105.4072	3032	NCEI	1973-2013
MT	BROADUS	24-1127	DLY	45.4442	-105.4072	3032	NCEI	1919-2023
MT	BROADUS	24-1127	HLY	45.4442	-105.4072	3032	NCEI	1942-2013

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	BROADVIEW	24-1149	DLY	46.1000	-108.8833	3881	NCEI	1906-1991
MT	BROCKWAY 3 WSW	24-1169	DLY	47.2875	-105.8300	2630	NCEI	1959-2023
MT	BROWNING	24-1202	15M	48.5614	-113.0133	4355	NCEI	1979-2013
MT	BROWNING	24-1202	DLY	48.5594	-113.0108	4355	NCEI	1894-1989
MT	BROWNING	24-1202	HLY	48.5614	-113.0133	4355	NCEI	1949-2013
MT	BROWNING #2	24-1217	DLY	48.5500	-113.0167	4379	NCEI	1989-1996
MT	BRUSETT 3 N	24-1231	DLY	47.4647	-107.3114	2974	NCEI	1910-2023
MT	BUSBY	24-1297	DLY	45.5397	-106.9597	3430	NCEI	1907-2023
MT	BUTTE 8 S	24-1309	HLY	45.8967	-112.5472	5700	NCEI	1953-2013
MT	BUTTE 8 S	24-1309	15M	45.8967	-112.5472	5700	NCEI	1971-2013
MT	BUTTE BERT MOONEY AP	24-1318	HLY	45.9647	-112.5006	5506	NCEI	1948-2013
MT	BYNUM 4 SSE	24-1342	DLY	47.9261	-112.2919	4039	NCEI	1927-2023
MT	CAMERON	24-1408	15M	45.2000	-111.6833	5500	NCEI	1971-1995
MT	CAMERON	24-1408	HLY	45.2000	-111.6833	5500	NCEI	1948-1995
MT	CAMERON	24-1408	DLY	45.2000	-111.6833	5500	NCEI	1911-1951
MT	CANYON CREEK	24-1450	DLY	46.8167	-112.2500	4314	NCEI	1907-1979
MT	CANYON FERRY	24-1460	DLY	46.6333	-111.7000	3471	NCEI	1898-1953
MT	CANYON FERRY DAM	24-1465	DLY	46.6500	-111.7167	3852	NCEI	1948-1957
MT	CANYON FERRY DAM	24-1470	DLY	46.6500	-111.7333	3672	NCEI	1907-1996
MT	CARDWELL	24-1500	DLY	45.8608	-111.9519	4270	NCEI	1978-1991
MT	CARDWELL	24-1500	15M	45.8603	-111.9583	4270	NCEI	1978-2013
MT	CARDWELL	24-1500	HLY	45.8603	-111.9583	4270	NCEI	1978-2013
MT	CARLYLE 13 NW	24-1518	DLY	46.7444	-104.3092	3145	NCEI	1962-2023
MT	CARTER 14 W	24-1525	DLY	47.7922	-111.2203	3450	NCEI	1982-2023
MT	CASCADE 5 S	24-1552	DLY	47.2192	-111.7106	3360	NCEI	1894-2022
MT	CASCADE 20 SSE	24-1557	DLY	46.9956	-111.5772	4600	NCEI	1876-2013
MT	CHESSMAN RSVR	24-1686	DLY	46.4667	-112.1833	6283	NCEI	1908-1963
MT	CHESTER	24-1692	DLY	48.5092	-110.9694	3132	NCEI	1900-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	CHINOOK	24-1722	DLY	48.5883	-109.2267	2420	NCEI	1895-2023
MT	CHOTEAU	24-1737	DLY	47.8206	-112.1922	3845	NCEI	1892-2023
MT	CHOTEAU	24-1737	15M	47.8206	-112.1922	3845	NCEI	1971-2013
MT	CHOTEAU	24-1737	HLY	47.8206	-112.1922	3845	NCEI	1940-2013
MT	CIRCLE	24-1758	DLY	47.4122	-105.5956	2480	NCEI	1963-2023
MT	CIRCLE 7 N	24-1765	DLY	47.5167	-105.5667	2431	NCEI	1928-1963
MT	CLARK CANYON DAM	24-1781	HLY	45.0017	-112.8575	5580	NCEI	1963-2013
MT	CLARK CANYON DAM	24-1781	15M	45.0017	-112.8575	5580	NCEI	1984-2013
MT	COHAGEN	24-1875	HLY	47.0564	-106.6164	2720	NCEI	1948-2013
MT	COHAGEN	24-1875	15M	47.0564	-106.6164	2720	NCEI	1981-2013
MT	COHAGEN	24-1875	DLY	47.0564	-106.6164	2720	NCEI	1950-2023
MT	COHAGEN 22 SE	24-1883	DLY	46.8631	-106.2389	2865	NCEI	2011-2023
MT	COLSTRIP	24-1905	DLY	45.8944	-106.6336	3218	NCEI	1926-2023
MT	COLUMBIA FALLS 5 SW	24-1919	DLY	48.3167	-114.2000	3081	NCEI	1892-1949
MT	COLUMBUS	24-1938	DLY	45.6444	-109.2675	3602	NCEI	1930-2023
MT	CONRAD	24-1974	DLY	48.1736	-111.9503	3550	NCEI	1910-2023
MT	CONTENT 4 NNE	24-1984	15M	48.0803	-107.5250	2325	NCEI	1984-2013
MT	CONTENT 4 NNE	24-1984	HLY	48.0803	-107.5250	2325	NCEI	1948-2013
MT	CONTENT 4 NNE	24-1984	DLY	48.0803	-107.5250	2325	NCEI	1950-2023
MT	COOKE CITY 2 W	24-1995	HLY	45.0108	-109.9819	7483	NCEI	1967-2013
MT	COOKE CITY 2 W	24-1995	DLY	45.0108	-109.9819	7483	NCEI	1967-2013
MT	COOKE CITY 2 W	24-1995	15M	45.0108	-109.9819	7483	NCEI	1976-2013
MT	COPPER	24-2012	DLY	46.6000	-110.6667	5682	NCEI	1905-1955
MT	CRESTON	24-2104	DLY	48.1881	-114.1339	2935	NCEI	1948-2023
MT	CROW AGENCY	24-2112	DLY	45.6000	-107.4500	3030	NCEI	1898-1991
MT	CULBERTSON	24-2122	DLY	48.1503	-104.5089	1940	NCEI	1900-2023
MT	CUSTER	24-2158	HLY	46.1333	-107.5333	2743	NCEI	1948-1975
MT	CUT BANK AP	24-2173	HLY	48.6033	-112.3753	3838	NCEI	1948-2013

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	CUT BANK AP	24-2173	15M	48.6033	-112.3753	3838	NCEI	1984-2013
MT	DARBY	24-2221	15M	46.0264	-114.1764	3880	NCEI	1971-2013
MT	DARBY	24-2221	DLY	46.0264	-114.1764	3880	NCEI	1898-2023
MT	DARBY	24-2221	HLY	46.0264	-114.1764	3880	NCEI	1971-2013
MT	DEBORCIA 3 N	24-2260	15M	47.4103	-115.3514	3800	NCEI	1990-2001
MT	DEBORCIA 3 N	24-2260	HLY	47.4103	-115.3514	3800	NCEI	1990-2001
MT	DEBORCIA 3 N	24-2260	DLY	47.4103	-115.3514	3800	NCEI	1990-2001
MT	DECKER	24-2266	HLY	45.0117	-106.8636	3520	NCEI	1949-1958
MT	DECKER	24-2266	DLY	45.0117	-106.8636	3520	NCEI	1904-2004
MT	DEER LODGE	24-2273	DLY	46.3833	-112.7333	4534	NCEI	1892-1959
MT	DEER LODGE 3 W	24-2275	DLY	46.3911	-112.7975	4850	NCEI	1959-2023
MT	DEL BONITA	24-2301	HLY	48.9983	-112.7886	4337	NCEI	1951-1958
MT	DEL BONITA	24-2301	DLY	48.9983	-112.7886	4337	NCEI	1951-2013
MT	DELPHIA	24-2317	HLY	46.4833	-108.4000	3061	NCEI	1948-1983
MT	DELPHIA	24-2317	DLY	46.4833	-108.4000	3061	NCEI	1950-1951
MT	DENTON	24-2347	DLY	47.3181	-109.9372	3610	NCEI	1907-2014
MT	DILLON AP	24-2404	15M	45.2575	-112.5544	5200	NCEI	1984-1992
MT	DILLON AP	24-2404	HLY	45.2575	-112.5544	5200	NCEI	1948-2013
MT	DILLON U OF MONTANA WESTERN	24-2409	DLY	45.2089	-112.6389	5129	NCEI	1894-2023
MT	DILLON 9 SSE	24-2414	DLY	45.1061	-112.6097	5500	NCEI	1950-1952
MT	DILLON 9 SSE	24-2414	15M	45.0917	-112.6044	5500	NCEI	1978-2013
MT	DILLON 9 SSE	24-2414	HLY	45.0917	-112.6044	5500	NCEI	1949-2013
MT	DIVIDE	24-2421	15M	45.7511	-112.7547	5350	NCEI	1972-2013
MT	DIVIDE	24-2421	HLY	45.7511	-112.7547	5350	NCEI	1948-2013
MT	DIVIDE	24-2421	DLY	45.7511	-112.7547	5350	NCEI	1914-2023
MT	DODSON 1 WNW	24-2438	DLY	48.3992	-108.2625	2294	NCEI	1883-2012
MT	DODSON 11 N	24-2441	HLY	48.5542	-108.2067	2710	NCEI	1952-2013
MT	DODSON 11 N	24-2441	15M	48.5542	-108.2067	2710	NCEI	1984-2013

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	DOVETAIL	24-2477	DLY	47.3500	-108.2500	2743	NCEI	1949-1951
MT	DOVETAIL	24-2477	HLY	47.3500	-108.2500	2743	NCEI	1940-1975
MT	DRUMMOND AVIATION	24-2500	HLY	46.6383	-113.1761	4000	NCEI	1963-2012
MT	DRUMMOND AVIATION	24-2500	15M	46.6383	-113.1761	4000	NCEI	1977-2012
MT	DRUMMOND FAA AP	24-2511	DLY	46.6167	-113.2000	4242	NCEI	1927-1963
MT	DRUMMOND FAA AP	24-2511	HLY	46.6167	-113.2000	4242	NCEI	1948-1963
MT	DUNKIRK 19NNE	24-2550	DLY	48.7167	-111.4758	3323	NCEI	1912-2023
MT	DUPUYER	24-2571	DLY	48.2000	-112.5000	4134	NCEI	1948-1952
MT	DUPUYER	24-2571	HLY	48.2000	-112.5000	4134	NCEI	1949-1976
MT	DUTTON 6 E	24-2584	HLY	47.8433	-111.5794	3594	NCEI	1948-2013
MT	DUTTON 6 E	24-2584	DLY	47.8436	-111.5794	3594	NCEI	1950-1951
MT	DUTTON 6 E	24-2584	15M	47.8433	-111.5794	3594	NCEI	1971-2013
MT	EAST ANACONDA	24-2604	DLY	46.1150	-112.9144	5515	NCEI	1905-1980
MT	EAST ANACONDA 2	24-2606	DLY	46.1167	-112.9333	5201	NCEI	1980-1982
MT	E GLACIER	24-2629	DLY	48.4472	-113.2236	4806	NCEI	1952-2021
MT	EAST HELENA	24-2634	DLY	46.5833	-111.9167	3901	NCEI	1926-1958
MT	EDGAR 6 E	24-2658	DLY	45.4667	-108.7333	4104	NCEI	1941-1950
MT	EDGAR 9 SE	24-2661	DLY	45.3965	-108.7241	4400	NCEI	1950-1974
MT	EKALAKA	24-2689	15M	45.8864	-104.5478	3432	NCEI	1984-2013
MT	EKALAKA	24-2689	DLY	45.8864	-104.5478	3432	NCEI	1896-2023
MT	EKALAKA	24-2689	HLY	45.8864	-104.5478	3432	NCEI	1948-2013
MT	ELKHORN HOT SPRINGS	24-2719	15M	45.4667	-113.1167	7385	NCEI	1977-1996
MT	ELKHORN HOT SPRINGS	24-2719	HLY	45.4667	-113.1167	7385	NCEI	1949-1996
MT	ELKHORN HOT SPRINGS	24-2719	DLY	45.4667	-113.1167	7385	NCEI	1891-1955
MT	ELKHORN HOT SPGS 2 S	24-2720	HLY	45.4333	-113.1167	6946	NCEI	1960-1964
MT	ELLISTON	24-2738	DLY	46.5631	-112.4342	5080	NCEI	1909-2020
MT	ENNIS	24-2793	DLY	45.3394	-111.7122	4953	NCEI	1917-2023
MT	ESSEX	24-2812	15M	48.2828	-113.6061	3850	NCEI	1976-2013

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	ESSEX	24-2812	DLY	48.2828	-113.6061	3850	NCEI	1951-2023
MT	ESSEX	24-2812	HLY	48.2828	-113.6061	3850	NCEI	1976-2013
MT	ETHRIDGE	24-2820	DLY	48.5586	-112.1253	3552	NCEI	1949-2023
MT	EUREKA	24-2825	DLY	48.8833	-115.0500	2577	NCEI	1924-1932
MT	EUREKA RS	24-2827	DLY	48.8978	-115.0644	2532	NCEI	1960-2023
MT	EUREKA RS	24-2827	HLY	48.8978	-115.0644	2532	NCEI	1960-2013
MT	EUREKA RS	24-2827	15M	48.8978	-115.0644	2532	NCEI	1971-2013
MT	FAIRFIELD	24-2857	DLY	47.6150	-111.9861	3983	NCEI	1926-2023
MT	FISHTAIL	24-2996	DLY	45.4531	-109.5069	4500	NCEI	1951-2021
MT	FLATWILLOW 4 ENE	24-3013	DLY	46.8217	-108.3725	3292	NCEI	1913-2023
MT	FORKS 4 NNE	24-3089	DLY	48.7778	-107.4536	2599	NCEI	1914-1996
MT	FORSYTH	24-3098	DLY	46.2722	-106.6756	2515	NCEI	1975-2023
MT	FORSYTH 2 E	24-3099	DLY	46.2667	-106.6167	2723	NCEI	1904-1975
MT	FORSYTH 2 E	24-3099	HLY	46.2667	-106.6167	2723	NCEI	1988-1988
MT	FT ASSINIBOINE	24-3110	DLY	48.4983	-109.8014	2675	NCEI	1916-2023
MT	FT BENTON	24-3113	DLY	47.8303	-110.6611	2649	NCEI	1894-2023
MT	FORTINE 1 N	24-3139	DLY	48.7783	-114.8997	3000	NCEI	1905-2009
MT	FORTINE 2 NE	24-3142	DLY	48.7822	-114.8767	3040	NCEI	2009-2013
MT	FT LOGAN 4 ESE	24-3157	DLY	46.6547	-111.0939	4710	NCEI	1892-2003
MT	FT PECK	24-3175	DLY	48.0000	-106.4500	2182	NCEI	1944-1956
MT	FT PECK	24-3175	HLY	48.0000	-106.4500	2182	NCEI	1948-1956
MT	FT PECK PWR PLT	24-3176	HLY	48.0119	-106.4117	2071	NCEI	1956-2013
MT	FT PECK PWR PLT	24-3176	DLY	48.0119	-106.4117	2071	NCEI	1956-2023
MT	FT PECK PWR PLT	24-3176	15M	48.0119	-106.4117	2071	NCEI	1971-2013
MT	FORT SHAW	24-3195	DLY	47.5000	-111.8000	3500	NCEI	1907-1926
MT	FRAZER	24-3280	DLY	48.0667	-106.0500	2070	NCEI	1923-1966
MT	GALATA 16 SW	24-3346	DLY	48.2922	-111.5683	3550	NCEI	1949-2023
MT	GALLATIN GATEWAY 10SSW	24-3366	DLY	45.4453	-111.2367	5441	NCEI	1950-2008

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	GALLATIN GATEWAY 10SSW	24-3366	HL Y	45.4458	-111.2369	5441	NCEI	2013-2013
MT	GALLATIN GATEWAY 10SSW	24-3366	15M	45.4458	-111.2369	5441	NCEI	2013-2013
MT	GARDINER	24-3378	DLY	45.0317	-110.7036	5275	NCEI	1956-2021
MT	GARLAND	24-3383	DLY	46.0500	-105.9167	2602	NCEI	1922-1955
MT	GEORGETOWN LAKE	24-3434	DLY	46.1836	-113.3300	6470	NCEI	2001-2008
MT	GEORGETOWN LAKE - 7 GABLES	24-3437	DLY	46.1925	-113.2633	6410	NCEI	2008-2012
MT	GERALDINE	24-3445	DLY	47.6014	-110.2669	3145	NCEI	1950-2012
MT	GERALDINE 6 SE	24-3455	DLY	47.5333	-110.1667	3451	NCEI	1905-1950
MT	GIBBONS PASS	24-3479	15M	45.6928	-113.9550	7070	NCEI	1974-2013
MT	GIBBONS PASS	24-3479	DLY	45.6928	-113.9550	7070	NCEI	1950-1951
MT	GIBBONS PASS	24-3479	HL Y	45.6928	-113.9550	7070	NCEI	1948-2013
MT	GIBSON 2 NE	24-3486	DLY	46.0397	-109.4953	4444	NCEI	1951-2023
MT	GIBSON DAM	24-3489	HL Y	47.6011	-112.7547	4590	NCEI	1948-2013
MT	GIBSON DAM	24-3489	DLY	47.6011	-112.7547	4590	NCEI	1911-2023
MT	GIBSON DAM	24-3489	15M	47.6011	-112.7547	4590	NCEI	1971-2013
MT	GILDFORD	24-3530	DLY	48.5647	-110.3028	2820	NCEI	1958-2023
MT	EAST GLACIER	24-3551	DLY	48.4500	-113.2167	4813	NCEI	1949-1952
MT	GLASGOW 14 NW	24-3554	DLY	48.3531	-106.8425	2160	NCEI	1951-2023
MT	GLASGOW #2	24-3557	DLY	48.1925	-106.6383	2090	NCEI	1893-2000
MT	GLASGOW #2	24-3557	HL Y	48.1925	-106.6383	2090	NCEI	1948-1951
MT	GLASGOW INTL AP	24-3558	HL Y	48.2139	-106.6214	2285	NCEI	1957-2013
MT	GLEN 4 N	24-3570	DLY	45.5261	-112.7006	5054	NCEI	1958-2011
MT	GLENDIVE	24-3581	HL Y	47.1058	-104.7175	2075	NCEI	1948-2013
MT	GLENDIVE	24-3581	15M	47.1058	-104.7175	2075	NCEI	1978-2013
MT	GLENDIVE	24-3581	DLY	47.1058	-104.7175	2075	NCEI	1892-2023
MT	GOLDBUTTE 7 N	24-3617	DLY	48.9753	-111.3989	3498	NCEI	1905-2023
MT	GRANT 5 SE	24-3707	DLY	44.9656	-113.0042	5780	NCEI	1928-2023
MT	GRASS RANGE	24-3727	DLY	47.0256	-108.8036	3490	NCEI	1913-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	GREAT FALLS 16ST	24-3749	DLY	47.4883	-111.2792	3505	NCEI	1891-2019
MT	GREAT FALLS AP	24-3751	HLY	47.4733	-111.3822	3664	NCEI	1948-2013
MT	GREAT FALLS WFO	24-3753	DLY	47.4614	-111.3850	3705	NCEI	1997-2023
MT	GREAT FALLS WFO	24-3753	HLY	47.4614	-111.3850	3705	NCEI	1997-2013
MT	GREAT FALLS WFO	24-3753	15M	47.4614	-111.3850	3705	NCEI	1997-2013
MT	HAMILTON	24-3885	DLY	46.2461	-114.1681	3585	NCEI	1895-2023
MT	HARB	24-3910	DLY	48.2333	-107.4103	2542	NCEI	1951-2018
MT	HARDIN	24-3915	DLY	45.7317	-107.6092	2880	NCEI	1948-2023
MT	HARLEM	24-3929	DLY	48.5353	-108.7964	2371	NCEI	1896-2011
MT	HARLOWTON	24-3939	DLY	46.4356	-109.8428	4222	NCEI	1948-2023
MT	HAUGAN 1 W	24-3984	15M	47.3889	-115.4225	3160	NCEI	1977-2013
MT	HAUGAN 1 W	24-3984	HLY	47.3889	-115.4225	3160	NCEI	1952-2013
MT	HAUGAN 1 W	24-3984	DLY	47.3889	-115.4225	3160	NCEI	1911-2023
MT	HAVRE AP ASOS	24-3996	HLY	48.5428	-109.7633	2585	NCEI	1961-2013
MT	HAVRE AP ASOS	24-3996	15M	48.5428	-109.7633	2585	NCEI	1984-1997
MT	HAXBY 18 SW	24-4007	DLY	47.5667	-106.7000	2651	NCEI	1922-1991
MT	HEBGEN DAM	24-4038	DLY	44.8667	-111.3392	6489	NCEI	1904-2023
MT	HEBGEN DAM	24-4038	HLY	44.8667	-111.3392	6489	NCEI	1948-2013
MT	HEBGEN DAM	24-4038	15M	44.8667	-111.3392	6489	NCEI	1971-2013
MT	HELENA 6 N	24-4050	DLY	46.6667	-112.0500	3802	NCEI	1923-1979
MT	HELENA AP ASOS	24-4055	HLY	46.6056	-111.9636	3828	NCEI	1948-2013
MT	HERON 2 NW	24-4084	DLY	48.0800	-116.0014	2240	NCEI	1911-2023
MT	HIGHWOOD	24-4120	HLY	47.5500	-110.7833	3401	NCEI	1951-1982
MT	HIGHWOOD	24-4120	DLY	47.5500	-110.7833	3401	NCEI	1950-1992
MT	HIGHWOOD	24-4120	15M	47.5500	-110.7833	3401	NCEI	1979-1982
MT	HIGHWOOD 7 NE	24-4133	DLY	47.6414	-110.6678	3600	NCEI	1948-2023
MT	HILGER	24-4143	HLY	47.2531	-109.3611	4080	NCEI	1948-2013
MT	HILGER	24-4143	DLY	47.2528	-109.3614	4080	NCEI	1949-1951

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	HILGER	24-4143	15M	47.2531	-109.3611	4080	NCEI	1975-2013
MT	HINGHAM	24-4172	DLY	48.5500	-110.4333	3031	NCEI	1951-1983
MT	HINGHAM 12 N	24-4174	DLY	48.7261	-110.4561	2950	NCEI	1983-2023
MT	HINSDALE 4 SW	24-4180	DLY	48.3478	-107.1533	2805	NCEI	1971-2023
MT	HOBSON	24-4193	DLY	46.9997	-109.8703	4244	NCEI	1920-2021
MT	HOLTER DAM	24-4241	DLY	46.9908	-112.0117	3487	NCEI	1902-2023
MT	HOLTER DAM	24-4241	HLY	46.9908	-112.0117	3487	NCEI	1948-2013
MT	HOLTER DAM	24-4241	15M	46.9908	-112.0117	3487	NCEI	1971-2013
MT	HUNGRY HORSE DAM	24-4328	15M	48.3425	-114.0217	3160	NCEI	1987-2013
MT	HUNGRY HORSE DAM	24-4328	DLY	48.3425	-114.0217	3160	NCEI	1947-2023
MT	HUNGRY HORSE DAM	24-4328	HLY	48.3425	-114.0217	3160	NCEI	1987-2013
MT	HUNTLEY EXP STN	24-4345	DLY	45.9228	-108.2453	3034	NCEI	1910-2023
MT	HYSHAM	24-4358	DLY	46.2897	-107.2306	2669	NCEI	1945-2023
MT	HYSHAM 25 SSE	24-4364	DLY	45.9353	-107.1375	3100	NCEI	1951-2023
MT	ILIAD	24-4368	HLY	47.8056	-109.8100	2965	NCEI	1948-2001
MT	ILIAD	24-4368	15M	47.8056	-109.8100	2965	NCEI	1984-2001
MT	ILIAD	24-4368	DLY	47.8056	-109.8100	2965	NCEI	1949-2001
MT	INGOMAR 9 E	24-4386	DLY	46.5675	-107.1950	2800	NCEI	1953-2023
MT	ISMAY	24-4442	HLY	46.5400	-104.7522	2715	NCEI	1948-2013
MT	ISMAY	24-4442	DLY	46.4997	-104.7997	2500	NCEI	1950-1951
MT	ISMAY	24-4442	15M	46.5400	-104.7522	2715	NCEI	1984-2013
MT	JACKSON	24-4447	DLY	45.3681	-113.4089	6480	NCEI	1949-2013
MT	JOLIET	24-4506	DLY	45.4733	-109.0106	3838	NCEI	1951-2021
MT	JOPLIN	24-4512	15M	48.5594	-110.7719	3323	NCEI	1979-2013
MT	JOPLIN	24-4512	DLY	48.5594	-110.7719	3323	NCEI	1931-2023
MT	JOPLIN	24-4512	HLY	48.5594	-110.7719	3323	NCEI	1948-2013
MT	JORDAN	24-4522	DLY	47.3144	-106.9103	2620	NCEI	1904-2018
MT	JUDITH GAP	24-4538	DLY	46.6778	-109.7506	4630	NCEI	1950-2022

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	JUDITH GAP 13 E	24-4545	DLY	46.6103	-109.4736	4791	NCEI	1964-2021
MT	KALISPELL GLACIER AP	24-4558	DLY	48.3042	-114.2636	2957	NCEI	1896-2023
MT	KALISPELL GLACIER AP	24-4558	HLY	48.3042	-114.2636	2957	NCEI	1949-2013
MT	KALISPELL	24-4563	DLY	48.1892	-114.3114	2940	NCEI	1948-2006
MT	KALISPELL	24-4563	HLY	48.1892	-114.3114	2940	NCEI	1948-1953
MT	KILA	24-4645	DLY	48.1167	-114.4667	3255	NCEI	1963-1991
MT	KNOBS 4 SW	24-4715	DLY	45.8728	-104.1583	3086	NCEI	1951-2023
MT	KNOWLTON	24-4730	DLY	46.3000	-105.0000	3600	NCEI	1914-1943
MT	KREMLIN	24-4766	DLY	48.5217	-110.1075	2860	NCEI	1914-2015
MT	LAKEVIEW	24-4820	HLY	44.5994	-111.8125	6710	NCEI	1948-2013
MT	LAKEVIEW	24-4820	15M	44.5994	-111.8125	6710	NCEI	1971-2013
MT	LAKEVIEW	24-4820	DLY	44.5994	-111.8125	6710	NCEI	1904-2023
MT	LAME DEER	24-4839	DLY	45.6258	-106.6642	3300	NCEI	1902-1998
MT	LAUREL 3 WSW	24-4894	DLY	45.6667	-108.8167	3319	NCEI	1951-1994
MT	LAVINA	24-4904	HLY	46.2931	-108.9417	3434	NCEI	1948-2013
MT	LAVINA	24-4904	15M	46.2931	-108.9417	3434	NCEI	1984-2013
MT	LAVINA	24-4904	DLY	46.2931	-108.9417	3434	NCEI	1950-1951
MT	LENNEP 5 SW	24-4954	DLY	46.3614	-110.5997	5600	NCEI	1959-2019
MT	LEWISTOWN 11 SSE	24-4978	DLY	46.9058	-109.4114	4965	NCEI	1949-2023
MT	LEWISTOWN 2 SW	24-4983	15M	47.0511	-109.4425	4100	NCEI	1972-2013
MT	LEWISTOWN 2 SW	24-4983	HLY	47.0511	-109.4425	4100	NCEI	1953-2013
MT	LIBBY DAM	24-5009	DLY	48.4057	-115.3135	2201	NCEI	1969-1986
MT	LIBBY DAM (BASE)	24-5011	DLY	48.4100	-115.3181	2110	NCEI	1986-2023
MT	LIBBY 1 NE RS	24-5015	DLY	48.4036	-115.5392	2096	NCEI	1895-2022
MT	LIBBY 1 NE RS	24-5015	15M	48.4036	-115.5392	2096	NCEI	1977-2013
MT	LIBBY 1 NE RS	24-5015	HLY	48.4036	-115.5392	2096	NCEI	1948-2013
MT	LIBBY 32 SSE	24-5020	DLY	47.9578	-115.2144	3440	NCEI	1910-2021
MT	LIMA	24-5030	DLY	44.6331	-112.5928	6279	NCEI	1898-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	LIMA	24-5030	15M	44.6331	-112.5928	6279	NCEI	1984-2013
MT	LIMA	24-5030	HLY	44.6331	-112.5928	6279	NCEI	1948-2013
MT	LINCOLN RS	24-5040	HLY	46.9558	-112.6547	4575	NCEI	1971-2013
MT	LINCOLN RS	24-5040	DLY	46.9558	-112.6547	4575	NCEI	1948-2023
MT	LINCOLN RS	24-5040	15M	46.9558	-112.6547	4575	NCEI	1971-2013
MT	LINDBERGH LAKE	24-5043	DLY	47.4083	-113.7125	4320	NCEI	1959-2023
MT	LINDSAY	24-5045	DLY	47.2253	-105.1522	2693	NCEI	1915-2023
MT	LIVINGSTON	24-5076	DLY	45.6667	-110.5667	4491	NCEI	1895-1981
MT	LIVINGSTON 12 S	24-5080	DLY	45.4956	-110.5589	5044	NCEI	1951-2023
MT	LIVINGSTON AP	24-5086	HLY	45.6983	-110.4408	4643	NCEI	1942-2013
MT	LIVINGSTON AP	24-5086	15M	45.6983	-110.4408	4643	NCEI	1984-2006
MT	LIVINGSTON RAIN GAUGE	24-5088	DLY	45.6969	-110.4539	4697	NCEI	2009-2021
MT	LIVINGSTON RAIN GAUGE	24-5088	HLY	45.6969	-110.4539	4697	NCEI	2009-2013
MT	LIVINGSTON RAIN GAUGE	24-5088	15M	45.6969	-110.4539	4697	NCEI	2009-2013
MT	LODGE GRASS	24-5106	DLY	45.3164	-107.3594	3360	NCEI	1904-1951
MT	LODGE GRASS	24-5106	HLY	45.3789	-107.3786	3263	NCEI	1949-2013
MT	LODGE GRASS	24-5106	15M	45.3789	-107.3786	3263	NCEI	1971-2013
MT	LOGAN 2 W	24-5122	HLY	45.8908	-111.4589	4089	NCEI	1971-2013
MT	LOGAN 2 W	24-5122	15M	45.8908	-111.4589	4089	NCEI	1971-2013
MT	LOLO HOT SPRINGS	24-5144	DLY	46.7258	-114.5331	4175	NCEI	2008-2023
MT	LOLO HOT SPRINGS 2 NE	24-5146	HLY	46.7506	-114.5139	4055	NCEI	1971-2013
MT	LOLO HOT SPRINGS 2 NE	24-5146	15M	46.7506	-114.5139	4055	NCEI	1971-2013
MT	LOLO HOT SPRINGS 2 NE	24-5146	DLY	46.7506	-114.5139	4055	NCEI	1959-1984
MT	LOMA	24-5153	DLY	47.9364	-110.5025	2578	NCEI	1950-2023
MT	LONEPINE 1 WNW	24-5164	HLY	47.7167	-114.6500	2881	NCEI	1951-1969
MT	LONEPINE 1 WNW	24-5164	DLY	47.7167	-114.6500	2881	NCEI	1918-1969
MT	LONESOME LAKE	24-5177	DLY	48.2500	-110.2000	2762	NCEI	1948-1981
MT	LORING 10 N	24-5191	DLY	48.9500	-107.8167	2661	NCEI	1951-1975

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	LOWETH	24-5235	DLY	46.3667	-110.7000	5804	NCEI	1926-1959
MT	LUSTRE 4 NNW	24-5285	DLY	48.4500	-105.9333	2923	NCEI	1921-1993
MT	LUSTRE 4 NNW	24-5285	HLY	48.4500	-105.9333	2923	NCEI	1949-1958
MT	MACKENZIE	24-5303	DLY	46.1422	-104.7353	2810	NCEI	1950-2023
MT	MALTA	24-5334	DLY	48.3589	-107.8714	2262	NCEI	1996-2023
MT	MALTA #2	24-5335	15M	48.3469	-107.8769	2288	NCEI	1999-2013
MT	MALTA #2	24-5335	HLY	48.3469	-107.8769	2288	NCEI	1999-2013
MT	MALTA	24-5337	DLY	48.3500	-107.8667	2260	NCEI	1905-1972
MT	MALTA 7 E	24-5338	DLY	48.3939	-107.7286	2231	NCEI	1972-2023
MT	MALTA 35 S	24-5340	DLY	47.8417	-107.9556	2615	NCEI	1959-2023
MT	MANHATTAN	24-5351	DLY	45.8667	-111.3333	4232	NCEI	1895-1983
MT	MANY GLACIER	24-5361	DLY	48.8000	-113.6500	4892	NCEI	1967-1980
MT	MARTINSDALE 3 NNW	24-5387	HLY	46.5000	-110.3378	4800	NCEI	1941-2012
MT	MARTINSDALE 3 NNW	24-5387	DLY	46.5000	-110.3378	4800	NCEI	1892-2012
MT	MARTINSDALE 3 NNW	24-5387	15M	46.5000	-110.3378	4800	NCEI	1971-2012
MT	MARYSVILLE 1 SW	24-5402	DLY	46.7500	-112.3000	5801	NCEI	1894-1982
MT	MARYSVILLE 3	24-5405	DLY	46.7500	-112.3000	5384	NCEI	1958-1971
MT	MEDICINE LAKE 3 SE	24-5572	DLY	48.4828	-104.4514	1942	NCEI	1910-2023
MT	MELSTONE	24-5596	DLY	46.6008	-107.8706	2932	NCEI	1909-2023
MT	MELVILLE 4 W	24-5603	DLY	46.1047	-110.0500	5365	NCEI	1960-2023
MT	MENARD 3 NE	24-5608	DLY	45.9994	-111.1328	5053	NCEI	1952-2011
MT	MILDRED	24-5666	DLY	46.6833	-104.9500	2411	NCEI	1909-1978
MT	MILDRED 5 N	24-5668	DLY	46.7614	-104.9622	2482	NCEI	1979-2023
MT	MILES CITY	24-5685	HLY	46.4000	-105.8167	2362	NCEI	1948-1972
MT	MILES CITY	24-5685	DLY	46.4000	-105.8167	2362	NCEI	1892-1982
MT	MILES CITY AP	24-5690	15M	46.4267	-105.8825	2624	NCEI	1984-1985
MT	MILES CITY AP	24-5690	HLY	46.4267	-105.8825	2624	NCEI	1948-2013
MT	MILLEGAN	24-5706	HLY	47.0206	-111.3700	4500	NCEI	1948-2013

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	MILLEGAN	24-5706	DLY	47.0211	-111.3689	4500	NCEI	1950-1951
MT	MILLEGAN	24-5706	15M	47.0206	-111.3700	4500	NCEI	1971-2013
MT	MILLEGAN 14 SE	24-5712	DLY	46.8747	-111.1642	4970	NCEI	1984-2023
MT	MISSOULA 2 NE	24-5735	DLY	46.8983	-113.9678	3420	NCEI	1966-2013
MT	MISSOULA 6 NW WFO	24-5740	DLY	46.9244	-114.0911	3197	NCEI	1893-2023
MT	MISSOULA INTL AP	24-5745	HL Y	46.9208	-114.0925	3192	NCEI	1948-2013
MT	MIZPAH 4 NNW	24-5754	DLY	46.2858	-105.2919	2480	NCEI	1949-2023
MT	MOCCASIN EXP STN	24-5761	DLY	47.0572	-109.9511	4300	NCEI	1908-2021
MT	MOLT 6 SW	24-5791	DLY	45.7847	-108.9664	3990	NCEI	1950-2023
MT	MOLT 6 SW	24-5791	HL Y	45.7847	-108.9664	3990	NCEI	1948-2013
MT	MOLT 6 SW	24-5791	15M	45.7847	-108.9664	3990	NCEI	1984-2013
MT	MONIDA	24-5811	DLY	44.5667	-112.3167	6785	NCEI	1949-1992
MT	MOORHEAD 9 NE	24-5870	DLY	45.1758	-105.7517	3220	NCEI	1958-2023
MT	MOORHEAD 9 NE	24-5870	HL Y	45.1758	-105.7517	3220	NCEI	1958-1958
MT	MOSBY 4 ENE	24-5872	DLY	47.0219	-107.8225	2910	NCEI	1959-2023
MT	MYSTIC LAKE	24-5961	DLY	45.2436	-109.7311	6544	NCEI	1924-2023
MT	MYSTIC LAKE	24-5961	HL Y	45.2436	-109.7311	6544	NCEI	1951-1958
MT	NEIHART 7 NW	24-6007	DLY	47.0381	-110.7861	4945	NCEI	2005-2016
MT	NEIHART 8 NNW	24-6008	HL Y	47.0414	-110.7761	5230	NCEI	1967-2013
MT	NEIHART 8 NNW	24-6008	DLY	47.0414	-110.7761	5230	NCEI	1967-2005
MT	NEIHART 8 NNW	24-6008	15M	47.0414	-110.7761	5230	NCEI	1972-2013
MT	NORRIS MADISON PWR HOUSE	24-6157	DLY	45.4875	-111.6336	4745	NCEI	1906-2023
MT	NYE #2	24-6190	DLY	45.4350	-109.8081	4840	NCEI	1905-2021
MT	OLNEY	24-6218	DLY	48.5497	-114.5739	3165	NCEI	1962-2017
MT	OPHEIM 10 N	24-6236	DLY	48.9989	-106.3800	2878	NCEI	1956-2023
MT	OPHEIM 12 SSE	24-6238	DLY	48.6956	-106.3153	2936	NCEI	1943-2023
MT	OVANDO	24-6302	15M	47.0189	-113.1314	4109	NCEI	1971-2013
MT	OVANDO	24-6302	HL Y	47.0189	-113.1314	4109	NCEI	1971-2013

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	OVANDO	24-6302	DLY	47.0189	-113.1314	4109	NCEI	1899-2023
MT	OVANDO 9 SSE	24-6304	DLY	46.8819	-113.0564	4325	NCEI	1976-2011
MT	PENDROY 2 NNW	24-6426	HLY	48.1167	-112.3333	4365	NCEI	1949-1950
MT	PENDROY 2 NNW	24-6426	DLY	48.1167	-112.3333	4365	NCEI	1940-1990
MT	PHILIPSBURG	24-6470	DLY	46.3333	-113.3000	5282	NCEI	1903-1955
MT	PHILLIPSBURG RS	24-6472	15M	46.3158	-113.3000	5270	NCEI	1978-2013
MT	PHILLIPSBURG RS	24-6472	HLY	46.3158	-113.3000	5270	NCEI	1978-2013
MT	PHILLIPSBURG RS	24-6472	DLY	46.3158	-113.3000	5270	NCEI	1955-2023
MT	PLAINS RS	24-6562	15M	47.4661	-114.8794	2490	NCEI	1978-2013
MT	PLAINS RS	24-6562	HLY	47.4661	-114.8794	2490	NCEI	1948-2013
MT	PLAINS RS	24-6562	DLY	47.4661	-114.8794	2490	NCEI	1898-1951
MT	PLEASANT VALLEY	24-6576	DLY	48.1333	-114.9167	3602	NCEI	1906-1972
MT	PLEASANT VALLEY 5 SE	24-6580	15M	48.1056	-114.8778	3540	NCEI	1975-2013
MT	PLEASANT VALLEY 5 SE	24-6580	DLY	48.1056	-114.8778	3540	NCEI	1950-2023
MT	PLEASANT VALLEY 5 SE	24-6580	HLY	48.1056	-114.8778	3540	NCEI	1948-2013
MT	PLENTYWOOD	24-6586	HLY	48.7747	-104.5672	2048	NCEI	1948-1951
MT	PLENTYWOOD	24-6586	DLY	48.7747	-104.5672	2048	NCEI	1906-2023
MT	PLEVNA	24-6601	DLY	46.4178	-104.5164	2780	NCEI	1910-2023
MT	POLEBRIDGE	24-6615	HLY	48.7647	-114.2842	3520	NCEI	1948-2013
MT	POLEBRIDGE	24-6615	15M	48.7647	-114.2842	3520	NCEI	1971-2013
MT	POLEBRIDGE	24-6615	DLY	48.7647	-114.2842	3520	NCEI	1933-2000
MT	POLEBRIDGE 1 N	24-6618	DLY	48.7792	-114.2889	3540	NCEI	2006-2010
MT	POLEBRIDGE FLATHEAD RVR	24-6628	HLY	48.7831	-114.2819	3534	NCEI	1980-1989
MT	POLEBRIDGE FLATHEAD RVR	24-6628	15M	48.7831	-114.2819	3534	NCEI	1980-1989
MT	POLSON	24-6635	DLY	47.6750	-114.1906	3010	NCEI	1906-2015
MT	SKQ DAM	24-6640	DLY	47.6775	-114.2419	2730	NCEI	1951-2023
MT	PONY	24-6655	DLY	45.6572	-111.8986	5590	NCEI	1894-1998
MT	POPLAR 2 E	24-6660	DLY	48.1333	-105.1500	2000	NCEI	1892-1991

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	PORT OF MORGAN	24-6672	DLY	48.9978	-107.8331	2830	NCEI	1976-2023
MT	POTOMAC	24-6685	DLY	46.8767	-113.5625	3690	NCEI	1964-2023
MT	POWDERVILLE 8 NNE	24-6691	DLY	45.8525	-105.0350	2800	NCEI	1964-2023
MT	POWER 6 SE	24-6700	DLY	47.6544	-111.5981	3750	NCEI	1952-2014
MT	PRYOR	24-6747	DLY	45.4339	-108.5361	4057	NCEI	1950-2020
MT	RAPELJE	24-6862	DLY	45.9717	-109.2536	4068	NCEI	1908-2021
MT	RAYMOND BORDER STN	24-6893	DLY	48.9975	-104.5750	2345	NCEI	1950-2023
MT	RAYNESFORD	24-6900	DLY	47.2833	-110.7333	4222	NCEI	1954-1970
MT	RAYNESFORD 2 NNW	24-6902	DLY	47.2972	-110.7456	4215	NCEI	1970-2013
MT	RED LODGE	24-6918	DLY	45.1769	-109.2572	5646	NCEI	1893-2023
MT	REDSTONE	24-6927	DLY	48.8197	-104.9428	2106	NCEI	1951-2011
MT	REEDPOINT	24-6946	DLY	45.7058	-109.5389	3744	NCEI	1950-1951
MT	REEDPOINT	24-6946	15M	45.7061	-109.5400	3744	NCEI	1984-2013
MT	REEDPOINT	24-6946	HLY	45.7061	-109.5400	3744	NCEI	1948-2013
MT	RENOVA	24-6964	DLY	45.8167	-112.1500	4383	NCEI	1897-1932
MT	RIDGE 2 WSW	24-7028	HLY	45.0333	-105.0333	4124	NCEI	1951-1973
MT	RIDGE 2 WSW	24-7028	DLY	45.0333	-105.0333	4124	NCEI	1898-1952
MT	RIDGEWAY 1 S	24-7034	DLY	45.5022	-104.4478	3316	NCEI	1952-2023
MT	ROBERTS 1 W	24-7128	DLY	45.3572	-109.1883	4650	NCEI	1951-2023
MT	ROCK SPRINGS	24-7136	DLY	46.8203	-106.2453	3024	NCEI	1951-2013
MT	ROCK SPRINGS 7 SE	24-7140	DLY	46.7833	-106.1333	3202	NCEI	1915-1950
MT	ROCKY BOY	24-7148	DLY	48.2500	-109.7833	3691	NCEI	1951-1987
MT	ROGERS PASS 9 NNE	24-7159	DLY	47.1900	-112.2900	4200	NCEI	1964-2022
MT	ROUND BUTTE 1 NNW	24-7204	HLY	47.5375	-114.2761	3100	NCEI	1948-2013
MT	ROUND BUTTE 1 NNW	24-7204	DLY	47.5375	-114.2761	3100	NCEI	1950-1951
MT	ROUND BUTTE 1 NNW	24-7204	15M	47.5375	-114.2761	3100	NCEI	1975-2013
MT	ROUNDUP	24-7214	DLY	46.4381	-108.5319	3200	NCEI	1914-2019
MT	ROY 8 NE	24-7228	DLY	47.4869	-108.8372	3085	NCEI	1938-2005

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	RUDYARD 27 N	24-7250	DLY	48.9375	-110.5661	3010	NCEI	1960-1998
MT	RUSSELL	24-7258	HLY	48.0686	-111.0661	3200	NCEI	1948-2013
MT	RUSSELL	24-7258	15M	48.0686	-111.0661	3200	NCEI	1981-2013
MT	RUSSELL	24-7258	DLY	48.0644	-111.0633	3200	NCEI	1950-1951
MT	RYEGATE	24-7261	DLY	46.2986	-109.2561	3650	NCEI	1909-2023
MT	RYEGATE 18 NNW	24-7263	DLY	46.5333	-109.3442	4440	NCEI	1962-2023
MT	SACO 1 NNW	24-7265	DLY	48.4661	-107.3528	2185	NCEI	1966-2023
MT	SAINT IGNATIUS	24-7286	DLY	47.3150	-114.0983	2915	NCEI	1895-2023
MT	ST MARY	24-7292	HLY	48.7386	-113.4294	4560	NCEI	1981-2013
MT	ST MARY	24-7292	15M	48.7386	-113.4294	4560	NCEI	1981-2013
MT	ST MARY	24-7292	DLY	48.7386	-113.4294	4560	NCEI	1981-2023
MT	ST. REGIS	24-7314	DLY	47.3000	-115.0833	2668	NCEI	1907-1911
MT	ST REGIS-CLARK FK	24-7316	15M	47.3019	-115.0864	2600	NCEI	1971-2013
MT	ST REGIS-CLARK FK	24-7316	HLY	47.3019	-115.0864	2600	NCEI	1971-2013
MT	SAINT REGIS 1 NE	24-7318	DLY	47.3036	-115.0908	2660	NCEI	1960-2014
MT	SAVAGE	24-7382	DLY	47.4536	-104.3378	1978	NCEI	1905-2022
MT	SCOBAY	24-7424	DLY	48.7833	-105.4167	2458	NCEI	1948-1987
MT	SCOBAY 4 NW	24-7425	HLY	48.8356	-105.4747	2390	NCEI	1979-2013
MT	SCOBAY 4 NW	24-7425	DLY	48.8356	-105.4747	2390	NCEI	1987-2023
MT	SCOBAY 4 NW	24-7425	15M	48.8356	-105.4747	2390	NCEI	1979-2013
MT	SEELEY LAKE RS	24-7448	DLY	47.2142	-113.5203	4100	NCEI	1936-2023
MT	SEELEY LAKE RS	24-7448	HLY	47.2142	-113.5203	4100	NCEI	1948-2013
MT	SEELEY LAKE RS	24-7448	15M	47.2142	-113.5203	4100	NCEI	1971-2013
MT	SHELBY	24-7500	DLY	48.5133	-111.8550	3325	NCEI	1950-2023
MT	SHELBY	24-7500	HLY	48.5133	-111.8550	3325	NCEI	1948-2013
MT	SHELBY	24-7500	15M	48.5133	-111.8550	3325	NCEI	1992-2013
MT	SHELBY AP	24-7501	HLY	48.5500	-111.8667	3426	NCEI	1958-1989
MT	SHELBY AP	24-7501	15M	48.5500	-111.8667	3426	NCEI	1971-1989

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	SHELBY AP	24-7501	DLY	48.5500	-111.8667	3426	NCEI	1958-1988
MT	SHONKIN 7 S	24-7540	DLY	47.5314	-110.5764	4300	NCEI	1953-2023
MT	SIDNEY	24-7560	DLY	47.7283	-104.1469	1933	NCEI	1910-2023
MT	SIDNEY 2 S	24-7562	DLY	47.6794	-104.1578	1920	NCEI	2011-2023
MT	SILVER GATE	24-7603	DLY	45.0156	-109.9683	7495	NCEI	2012-2020
MT	SILVER LAKE	24-7605	DLY	46.1667	-113.2167	6483	NCEI	1950-1983
MT	SILVERSTAR	24-7610	DLY	45.6950	-112.2844	4580	NCEI	1950-1951
MT	SILVERSTAR	24-7610	15M	45.6917	-112.2833	4585	NCEI	1984-2013
MT	SILVERSTAR	24-7610	HLY	45.6917	-112.2833	4585	NCEI	1948-2013
MT	SIMMS 1 NE	24-7618	HLY	47.4961	-111.9161	3558	NCEI	1971-1984
MT	SIMMS 1 NE	24-7618	15M	47.4961	-111.9161	3558	NCEI	1971-1984
MT	SIMMS 1 NE	24-7618	DLY	47.4961	-111.9161	3558	NCEI	1984-2014
MT	SIMPSON 6 N - WILDHORSE	24-7620	DLY	48.9981	-110.2158	2815	NCEI	1931-2023
MT	SONNETTE 7 SW	24-7740	DLY	45.3242	-105.9136	3914	NCEI	1965-2023
MT	SPRINGBROOK	24-7796	DLY	47.3838	-105.4797	2580	NCEI	1901-1928
MT	SPRINGDALE	24-7800	DLY	45.7383	-110.2242	4235	NCEI	1951-2023
MT	STANFORD	24-7858	HLY	47.1500	-110.2167	4281	NCEI	1949-1958
MT	STANFORD	24-7858	DLY	47.1500	-110.2167	4281	NCEI	1927-1964
MT	STANFORD	24-7864	DLY	47.1550	-110.2239	4275	NCEI	1964-2023
MT	STEVENSVILLE	24-7894	HLY	46.5136	-114.0911	3375	NCEI	1978-2013
MT	STEVENSVILLE	24-7894	DLY	46.5136	-114.0911	3375	NCEI	1911-2023
MT	STEVENSVILLE	24-7894	15M	46.5136	-114.0911	3375	NCEI	1978-2013
MT	SULA 3 ENE	24-7964	DLY	45.8478	-113.9269	4475	NCEI	1955-2023
MT	SUMMIT	24-7978	15M	48.3161	-113.3542	5233	NCEI	1973-2013
MT	SUMMIT	24-7978	HLY	48.3161	-113.3542	5233	NCEI	1948-2013
MT	SUMMIT	24-7978	DLY	48.3161	-113.3542	5233	NCEI	1902-1979
MT	SUNBURST 8 E	24-7996	DLY	48.8869	-111.7275	3700	NCEI	1951-2014
MT	SUN RVR 4 S	24-8021	DLY	47.4772	-111.7375	3600	NCEI	1912-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	SWAN LAKE	24-8087	15M	47.9161	-113.8389	3100	NCEI	1972-2013
MT	SWAN LAKE	24-8087	DLY	47.9161	-113.8389	3100	NCEI	1950-2012
MT	SWAN LAKE	24-8087	HLY	47.9161	-113.8389	3100	NCEI	1948-2013
MT	SWEETGRASS	24-8093	DLY	48.9972	-111.9642	3510	NCEI	1924-2008
MT	SWEETGRASS	24-8093	HLY	48.9972	-111.9642	3510	NCEI	1951-1958
MT	SWIFT DAM	24-8101	15M	48.1633	-112.8672	4780	NCEI	1976-2013
MT	SWIFT DAM	24-8101	DLY	48.1639	-112.8669	4780	NCEI	1965-1967
MT	SWIFT DAM	24-8101	HLY	48.1633	-112.8672	4780	NCEI	1965-2013
MT	TERRY	24-8165	DLY	46.7939	-105.3022	2250	NCEI	1949-2023
MT	TERRY 21 NNW	24-8169	DLY	47.0700	-105.4953	3142	NCEI	1949-2018
MT	TERRY 21 NNW	24-8169	HLY	47.0700	-105.4953	3142	NCEI	1940-2013
MT	TERRY 21 NNW	24-8169	15M	47.0700	-105.4953	3142	NCEI	1984-2013
MT	THOENY 1 E	24-8202	DLY	48.8833	-106.8833	2461	NCEI	1951-1966
MT	THOMPSON FALLS	24-8207	DLY	47.6000	-115.3500	2441	NCEI	1911-1956
MT	THOMPSON FALLS PH	24-8211	DLY	47.5933	-115.3594	2380	NCEI	1955-2023
MT	TIBER DAM	24-8233	DLY	48.3103	-111.0878	2850	NCEI	1952-2023
MT	TOSTON 2 SW	24-8313	HLY	46.1500	-111.4833	3953	NCEI	1950-1958
MT	TOSTON 2 SW	24-8313	DLY	46.1500	-111.4833	3953	NCEI	1895-1952
MT	TOSTON 1 W	24-8314	DLY	46.1667	-111.4667	3934	NCEI	1957-1982
MT	TOWNSEND 3SE	24-8324	DLY	46.2989	-111.4525	3964	NCEI	1948-2023
MT	TOWNSEND 12 ENE	24-8329	15M	46.3567	-111.2842	5050	NCEI	1971-2013
MT	TOWNSEND 12 ENE	24-8329	HLY	46.3567	-111.2842	5050	NCEI	1948-2013
MT	TOWNSEND 12 ENE	24-8329	DLY	46.3569	-111.2839	5050	NCEI	1950-1951
MT	TRIDENT	24-8363	DLY	45.9467	-111.4758	4036	NCEI	1924-2023
MT	TROUT CREEK 2 W	24-8379	DLY	47.8333	-115.6333	2490	NCEI	1912-1960
MT	TROUT CREEK RS	24-8380	DLY	47.8669	-115.6278	2356	NCEI	1960-2022
MT	TROY	24-8390	DLY	48.4806	-115.9061	1929	NCEI	1960-2023
MT	TROY (1)	24-8392	DLY	48.4498	-115.8595	2000	NCEI	1894-1910

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	TURNER	24-8413	DLY	48.8500	-108.4000	3046	NCEI	1932-1984
MT	TURNER 11N	24-8415	DLY	48.9992	-108.3894	2982	NCEI	1985-2023
MT	TWIN BRIDGES	24-8430	DLY	45.5472	-112.3261	4625	NCEI	1950-2023
MT	UTICA	24-8493	DLY	46.9667	-110.0833	4705	NCEI	1894-1952
MT	UTICA	24-8493	HLY	46.9667	-110.0833	4705	NCEI	1949-1958
MT	UTICA 11 WSW	24-8495	DLY	46.8833	-110.3000	5000	NCEI	1961-1987
MT	VALENTINE	24-8498	DLY	47.3392	-108.4992	2905	NCEI	1906-2023
MT	VALIER	24-8501	DLY	48.3119	-112.2492	3807	NCEI	1911-2013
MT	VANANDA 6 NE	24-8511	HLY	46.4300	-106.9200	2625	NCEI	1948-2013
MT	VANANDA 6 NE	24-8511	15M	46.4300	-106.9200	2625	NCEI	1984-2013
MT	VANANDA 6 NE	24-8511	DLY	46.4300	-106.9200	2625	NCEI	1917-1951
MT	VIDA 6 NE	24-8569	DLY	47.8800	-105.3686	2284	NCEI	1934-2022
MT	VIRGINIA CITY	24-8597	DLY	45.2925	-111.9478	5773	NCEI	1892-2023
MT	VOLBORG	24-8607	DLY	45.8436	-105.6808	2980	NCEI	1950-2023
MT	WARRICK	24-8691	DLY	48.0833	-109.6667	4134	NCEI	1904-1907
MT	WARRICK 2 NW	24-8693	DLY	48.0878	-109.6453	4250	NCEI	1987-2023
MT	WEBSTER 3 E	24-8732	DLY	46.0558	-104.1853	3140	NCEI	1951-2019
MT	WESTBY	24-8777	HLY	48.8744	-104.0503	2103	NCEI	1948-2013
MT	WESTBY	24-8777	DLY	48.8744	-104.0503	2103	NCEI	1936-2023
MT	WESTBY	24-8777	15M	48.8744	-104.0503	2103	NCEI	1984-2013
MT	WESTERN AG RSCH CTR	24-8783	DLY	46.3283	-114.0847	3608	NCEI	1965-2021
MT	W GLACIER	24-8809	HLY	48.5003	-113.9847	3148	NCEI	1971-2013
MT	W GLACIER	24-8809	DLY	48.5003	-113.9847	3148	NCEI	1949-2023
MT	W GLACIER	24-8809	15M	48.5003	-113.9847	3148	NCEI	1971-2013
MT	WEST YELLOWSTONE	24-8857	DLY	44.6500	-111.1000	6659	NCEI	1923-1996
MT	W YELLOWSTONE USFS	24-8866	HLY	44.6661	-111.0992	6660	NCEI	1981-2013
MT	W YELLOWSTONE USFS	24-8866	15M	44.6661	-111.0992	6660	NCEI	1981-2013
MT	WHITEFISH	24-8893	DLY	48.4000	-114.3333	3033	NCEI	1983-1987

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	WHITEFISH	24-8902	DLY	48.4081	-114.3594	3100	NCEI	1939-2014
MT	WHITEHALL 7 E	24-8914	HL Y	45.8667	-111.9667	4278	NCEI	1967-1977
MT	WHITEHALL 7 E	24-8914	15M	45.8667	-111.9667	4278	NCEI	1971-1977
MT	WHITEHALL FAA AP	24-8917	HL Y	45.8167	-112.2000	4598	NCEI	1948-1959
MT	WHITE SULPHUR SPRINGS	24-8927	DLY	46.5425	-110.9042	5160	NCEI	1894-1978
MT	WHITE SULPHUR SPRINGS	24-8927	HL Y	46.5431	-110.9058	5160	NCEI	1971-2013
MT	WHITE SULPHUR SPRINGS	24-8927	15M	46.5431	-110.9058	5160	NCEI	1971-2013
MT	WHITE SULPHUR SPRINGS #2	24-8930	DLY	46.5436	-110.9000	5040	NCEI	1978-2014
MT	WHITE SULPHUR SPRNGS 2	24-8936	DLY	46.8333	-111.2000	4391	NCEI	1965-1984
MT	WHITEWATER	24-8939	DLY	48.7597	-107.6250	2328	NCEI	1951-2023
MT	WIBAUX 2 E	24-8957	DLY	46.9878	-104.1567	2696	NCEI	1894-2021
MT	WILLOW CREEK	24-9008	HL Y	45.8167	-111.6500	4160	NCEI	1964-1989
MT	WILLOW CREEK	24-9008	15M	45.8167	-111.6500	4160	NCEI	1984-1989
MT	WILSALL	24-9018	DLY	46.0000	-110.6667	5052	NCEI	1950-1969
MT	WILSALL	24-9018	HL Y	46.0000	-110.6667	5052	NCEI	1950-1958
MT	WILSALL 8 ENE	24-9023	DLY	46.0306	-110.5056	5865	NCEI	1957-2018
MT	WINIFRED	24-9033	DLY	47.5597	-109.3767	3243	NCEI	1921-2021
MT	WINNETT 5 NNE	24-9047	DLY	47.0667	-108.3167	2923	NCEI	1942-1971
MT	WINNETT 6NNE	24-9048	DLY	47.0831	-108.3164	2865	NCEI	2005-2023
MT	WINNETT 8 ESE	24-9052	DLY	46.9392	-108.1967	2810	NCEI	1949-1951
MT	WINNETT 8 ESE	24-9052	HL Y	46.9389	-108.1967	2810	NCEI	1948-2013
MT	WINNETT 8 ESE	24-9052	15M	46.9389	-108.1967	2810	NCEI	1984-2013
MT	WISDOM	24-9067	DLY	45.6178	-113.4514	6060	NCEI	1922-2023
MT	WISDOM	24-9067	HL Y	45.6178	-113.4514	6060	NCEI	1948-2013
MT	WISDOM	24-9067	15M	45.6178	-113.4514	6060	NCEI	1971-2013
MT	WISE RVR 3 WNW	24-9082	DLY	45.8025	-112.9939	5730	NCEI	1943-2022
MT	WOLF PT	24-9103	DLY	48.1000	-105.6483	2090	NCEI	1904-2023
MT	WOLF PT	24-9103	HL Y	48.1000	-105.6483	2090	NCEI	1949-1958

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	WOLF POINT 5 ESE	24-9111	DLY	48.0833	-105.5333	1991	NCEI	1941-1973
MT	WYOLA 1 SW	24-9175	DLY	45.1217	-107.4061	3730	NCEI	1922-2006
MT	YELLOWSTONE NP NE ENT	24-9211	HLY	45.0045	-110.0122	7350	NCEI	1949-1967
MT	YELLOWSTONE NP NE ENT	24-9211	DLY	45.0045	-110.0122	7350	NCEI	1945-1967
MT	YELLOWTAIL DAM	24-9240	HLY	45.3128	-107.9383	3305	NCEI	1948-2013
MT	YELLOWTAIL DAM	24-9240	15M	45.3128	-107.9383	3305	NCEI	1979-2013
MT	YELLOWTAIL DAM	24-9240	DLY	45.3128	-107.9383	3305	NCEI	1948-2023
MT	ZORTMAN	24-9900	15M	47.9186	-108.5244	4035	NCEI	1978-2013
MT	ZORTMAN	24-9900	HLY	47.9186	-108.5244	4035	NCEI	1965-2013
MT	ZORTMAN	24-9900	DLY	47.9186	-108.5244	4035	NCEI	1965-2023
MT	ZORTMAN (1)	24-9903	DLY	47.9173	-108.5242	4013	NCEI	1895-1914
WY	AFTON	48-0027	DLY	42.7331	-110.9217	6248	NCEI	1957-2023
WY	ALBIN	48-0080	DLY	41.4000	-104.1017	5345	NCEI	1948-2009
WY	ALTA 1 NNW	48-0140	DLY	43.7728	-111.0339	6440	NCEI	1909-2023
WY	ALVA 5 ESE	48-0200	DLY	44.6522	-104.3492	4390	NCEI	1948-2001
WY	ARCHER	48-0270	DLY	41.1517	-104.6575	6010	NCEI	1911-2005
WY	BAGGS	48-0484	DLY	41.0383	-107.6578	6319	NCEI	1979-2023
WY	BARNUM 1 N	48-0528	HLY	43.7000	-106.9167	5154	NCEI	1949-1958
WY	BARNUM 1 N	48-0528	DLY	43.7000	-106.9167	5154	NCEI	1905-1952
WY	BASIN	48-0540	HLY	44.3797	-108.0350	3840	NCEI	1949-1958
WY	BASIN	48-0540	DLY	44.3797	-108.0350	3840	NCEI	1898-2023
WY	BATES CREEK #2	48-0552	DLY	42.6233	-106.3567	6042	NCEI	1969-2023
WY	BEDFORD 3 SE	48-0603	DLY	42.8731	-110.9069	6355	NCEI	1975-2023
WY	BEDFORD 2 SE	48-0605	DLY	42.8667	-110.9000	6335	NCEI	1899-1967
WY	BIG HORN	48-0680	DLY	44.6828	-107.0089	4208	NCEI	1949-2023
WY	BIG PINEY	48-0695	HLY	42.5414	-110.1253	6835	NCEI	1948-1992
WY	BIG PINEY	48-0695	15M	42.5414	-110.1253	6835	NCEI	1976-1992
WY	BIG PINEY	48-0695	DLY	42.5414	-110.1253	6835	NCEI	1948-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	BIG PINEY UP&L	48-0697	HL Y	42.5364	-110.1128	6822	NCEI	1992-2013
WY	BIG PINEY UP&L	48-0697	15M	42.5364	-110.1128	6822	NCEI	1992-2013
WY	BILLY CREEK	48-0740	DLY	44.1242	-106.7319	4975	NCEI	1962-2013
WY	BITTER CREEK 4 NE	48-0761	DLY	41.5897	-108.5094	6722	NCEI	1962-2023
WY	BLACK MTN	48-0778	DLY	43.6561	-107.7375	5635	NCEI	1963-2023
WY	BONDURANT	48-0865	DLY	43.2094	-110.4033	6693	NCEI	1948-2023
WY	BORDER 3 N	48-0915	DLY	42.2128	-111.0456	6069	NCEI	1901-1993
WY	BOULDER REARING STN	48-0951	DLY	42.7156	-109.6894	6940	NCEI	1989-2023
WY	BOYSEN DAM	48-1000	HL Y	43.4053	-108.1633	4875	NCEI	1948-2013
WY	BOYSEN DAM	48-1000	15M	43.4053	-108.1633	4875	NCEI	1971-2013
WY	BOYSEN DAM	48-1000	DLY	43.4053	-108.1633	4875	NCEI	1948-2023
WY	BUFFALO	48-1165	HL Y	44.3544	-106.6994	4639	NCEI	1948-2013
WY	BUFFALO	48-1165	15M	44.3544	-106.6994	4639	NCEI	1971-2013
WY	BUFFALO	48-1165	DLY	44.3544	-106.6994	4639	NCEI	1899-2023
WY	BUFFALO BILL DAM	48-1175	DLY	44.5075	-109.1675	5160	NCEI	1904-2023
WY	BURGESS JUNCTION	48-1220	DLY	44.7742	-107.5217	8060	NCEI	1960-2023
WY	BURRIS	48-1284	HL Y	43.3656	-109.2756	6125	NCEI	1951-1952
WY	BURRIS	48-1284	DLY	43.3656	-109.2756	6125	NCEI	1951-2020
WY	CARPENTER 3N	48-1547	DLY	41.0844	-104.3789	5437	NCEI	1948-2006
WY	CARPENTER 7 NE	48-1550	DLY	41.0833	-104.3833	5282	NCEI	1941-1947
WY	CASPER 2 E	48-1565	DLY	42.8500	-106.2667	5203	NCEI	1900-1981
WY	CASPER WWTP	48-1569	DLY	42.8614	-106.2925	5097	NCEI	2000-2023
WY	CASPER-NATRONA CO AP	48-1570	HL Y	42.8978	-106.4736	5318	NCEI	1948-2013
WY	CASPER 1SW	48-1572	DLY	42.8519	-106.2844	5143	NCEI	2002-2023
WY	CENTENNIAL 1NE	48-1610	DLY	41.3136	-106.1292	8170	NCEI	1898-2007
WY	CHEYENNE WSFO AP	48-1675	15M	41.1578	-104.8069	6113	NCEI	2009-2010
WY	CHEYENNE WSFO AP	48-1675	HL Y	41.1578	-104.8069	6113	NCEI	1948-2013
WY	CHEYENNE WFO	48-1676	15M	41.1517	-104.8061	6119	NCEI	2003-2012

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	CHEYENNE WFO	48-1676	DLY	41.1517	-104.8061	6119	NCEI	2003-2023
WY	CHEYENNE WFO	48-1676	HLY	41.1517	-104.8061	6119	NCEI	2003-2012
WY	CHEYENNE HORT F STN	48-1680	DLY	41.1833	-104.8833	6253	NCEI	1934-1957
WY	CHUGWATER	48-1730	DLY	41.7594	-104.8222	5304	NCEI	1900-2023
WY	CHURCH BUTTES GAS PLT	48-1736	DLY	41.3975	-110.0883	7079	NCEI	1891-2023
WY	CLARK 4 SW	48-1770	DLY	44.9000	-109.2333	4534	NCEI	1905-1958
WY	CLARK 3NE	48-1775	DLY	44.9364	-109.1372	4117	NCEI	1960-2023
WY	CLEARMONT 5 SW	48-1816	DLY	44.5781	-106.4472	3995	NCEI	1881-2023
WY	CODY	48-1840	DLY	44.5147	-109.0450	5075	NCEI	1914-2022
WY	CODY	48-1840	HLY	44.5147	-109.0450	5075	NCEI	1948-1951
WY	CODY 12SE	48-1850	DLY	44.4139	-108.9006	5248	NCEI	1949-2023
WY	CODY 21 SW	48-1855	DLY	44.3367	-109.3914	5840	NCEI	1958-2009
WY	COLONY	48-1905	DLY	44.8711	-104.1533	3480	NCEI	1914-2023
WY	CRANDALL CREEK	48-2135	DLY	44.8675	-109.6436	6509	NCEI	1913-2015
WY	CRESTON	48-2175	15M	41.7333	-107.7333	7044	NCEI	1971-1984
WY	CRESTON	48-2175	HLY	41.7333	-107.7333	7044	NCEI	1948-1984
WY	CRESTON	48-2175	DLY	41.7333	-107.7333	7044	NCEI	1946-1951
WY	DANIEL FISH HATCHERY	48-2242	DLY	42.9281	-110.1272	7341	NCEI	1989-2023
WY	DARWIN RCH	48-2375	DLY	43.4128	-110.1633	8190	NCEI	1974-2023
WY	DAYTON	48-2399	DLY	44.8767	-107.2631	3920	NCEI	1951-2023
WY	DEAVER	48-2415	DLY	44.8919	-108.5928	4105	NCEI	1915-2023
WY	DEVILS TWR	48-2465	DLY	44.5901	-104.7196	4334	NCEI	1932-1958
WY	DEVILS TWR #2	48-2466	DLY	44.5833	-104.7147	3862	NCEI	1958-2023
WY	DILLINGER	48-2580	DLY	44.0992	-105.1175	4310	NCEI	1941-2023
WY	DIVERSION DAM	48-2595	HLY	43.2336	-108.9133	5578	NCEI	1949-1955
WY	DIVERSION DAM	48-2595	DLY	43.2336	-108.9133	5578	NCEI	1920-2023
WY	DIXON	48-2610	DLY	41.0333	-107.5333	6365	NCEI	1921-1978
WY	DOVE LAKE	48-2638	DLY	44.5833	-107.2833	8825	NCEI	1896-1944

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	DOUBLE FOUR RCH	48-2680	DLY	42.1794	-105.4017	6120	NCEI	1942-2005
WY	DOUGLAS 1 SE	48-2685	HLY	42.7467	-105.3603	4870	NCEI	1960-1962
WY	DOUGLAS 1 SE	48-2685	DLY	42.7467	-105.3603	4870	NCEI	1909-2016
WY	DOUGLAS CAA AP	48-2690	HLY	42.7500	-105.3667	4879	NCEI	1948-1960
WY	DOUGLAS	48-2693	HLY	42.7444	-105.3897	4805	NCEI	1962-2010
WY	DOUGLAS	48-2693	15M	42.7444	-105.3897	4805	NCEI	1973-2010
WY	DOUGLAS 17NE	48-2696	15M	42.9533	-105.1650	4930	NCEI	1976-2013
WY	DOUGLAS 17NE	48-2696	DLY	42.9533	-105.1650	4930	NCEI	1949-1957
WY	DOUGLAS 17NE	48-2696	HLY	42.9533	-105.1650	4930	NCEI	1957-2013
WY	DUBOIS	48-2715	15M	43.5397	-109.6553	6955	NCEI	1981-2013
WY	DUBOIS	48-2715	DLY	43.5397	-109.6553	6955	NCEI	1905-2023
WY	DUBOIS	48-2715	HLY	43.5397	-109.6553	6955	NCEI	1949-2013
WY	DULL CTR 1SE	48-2725	HLY	43.4117	-104.9614	4415	NCEI	1948-2013
WY	DULL CTR 1SE	48-2725	DLY	43.4117	-104.9614	4415	NCEI	1926-2022
WY	DULL CTR 1SE	48-2725	15M	43.4117	-104.9614	4415	NCEI	1984-2013
WY	EAST GATE Y NP	48-2845	DLY	44.4892	-110.0046	6965	NCEI	1907-1952
WY	ECHETA 2 NW	48-2881	DLY	44.4828	-105.8992	4000	NCEI	1908-2006
WY	ELK MTN	48-2995	DLY	41.6878	-106.4136	7265	NCEI	1948-2016
WY	EMBLEM	48-3031	HLY	44.4972	-108.3906	4448	NCEI	1957-1958
WY	EMBLEM	48-3031	DLY	44.4972	-108.3906	4448	NCEI	1911-2023
WY	ENCAMPMENT 10 ESE	48-3045	DLY	41.1833	-106.6167	7385	NCEI	1948-1998
WY	ENCAMPMENT	48-3050	DLY	41.2058	-106.7883	7290	NCEI	1948-1951
WY	ENCAMPMENT	48-3050	15M	41.2058	-106.7883	7290	NCEI	1972-2013
WY	ENCAMPMENT	48-3050	HLY	41.2058	-106.7883	7290	NCEI	1948-2013
WY	EVANSTON 1 E	48-3100	HLY	41.2650	-110.9508	6825	NCEI	1948-2013
WY	EVANSTON 1 E	48-3100	DLY	41.2650	-110.9508	6825	NCEI	1890-2023
WY	EVANSTON 1 E	48-3100	15M	41.2650	-110.9508	6825	NCEI	1974-2013
WY	FARSON 2NNE	48-3170	DLY	42.1397	-109.4308	6620	NCEI	1914-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	FONTENELLE DAM	48-3396	DLY	41.9861	-110.0611	6485	NCEI	1963-2023
WY	FORT LARAMIE	48-3485	DLY	42.2167	-104.5167	4235	NCEI	1894-1927
WY	FT LARAMIE 11 NNW	48-3490	DLY	42.3833	-104.5333	4764	NCEI	1927-1979
WY	FT WASHAKIE 1 SE	48-3570	DLY	42.9833	-108.8667	5554	NCEI	1928-1979
WY	FOSSIL BUTTE	48-3582	DLY	41.8369	-110.7706	6785	NCEI	1990-2023
WY	FOXPARK	48-3630	DLY	41.0833	-106.1500	9067	NCEI	1910-1979
WY	GARLAND	48-3770	DLY	44.7833	-108.6667	4252	NCEI	1948-1951
WY	GARLAND	48-3770	HLY	44.7833	-108.6667	4252	NCEI	1948-1966
WY	GAS HILLS 4E	48-3801	DLY	42.8394	-107.5133	6470	NCEI	1962-2007
WY	GILLETTE 4SE	48-3855	DLY	44.2667	-105.4489	4640	NCEI	1901-2023
WY	GILLETTE 18 SW	48-3865	DLY	44.0833	-105.7167	4905	NCEI	1949-1985
WY	GILLETTE 18 SW	48-3865	15M	44.0833	-105.7167	4905	NCEI	1973-1986
WY	GILLETTE 18 SW	48-3865	HLY	44.0833	-105.7167	4905	NCEI	1960-1986
WY	GLENDO RSVR USBR	48-3944	DLY	42.4689	-104.9658	4780	NCEI	2011-2023
WY	GLENROCK 5 ESE	48-3950	DLY	42.8267	-105.7878	4948	NCEI	1941-2008
WY	GLENROCK 14 SSE	48-3960	DLY	42.6667	-105.8167	6434	NCEI	1949-1987
WY	GRAND CANYON	48-3995	DLY	44.7333	-110.5000	7900	NCEI	1903-1916
WY	GRASS CREEK	48-4036	DLY	43.9500	-108.6500	5579	NCEI	1949-1990
WY	GREEN RVR	48-4065	DLY	41.5167	-109.4703	6160	NCEI	1897-2023
WY	GREYBULL	48-4080	DLY	44.4894	-108.0536	3787	NCEI	1951-2019
WY	GROVER 2 S	48-4095	DLY	42.7531	-110.9326	6125	NCEI	1902-1957
WY	GUERNSEY DAM	48-4125	DLY	42.3000	-104.7667	4505	NCEI	1944-1962
WY	GUERNSEY DAM #2	48-4126	DLY	42.2906	-104.7625	4355	NCEI	1962-2023
WY	GUERNSEY DAM #2	48-4126	15M	42.2906	-104.7625	4355	NCEI	2013-2013
WY	GUERNSEY DAM #2	48-4126	HLY	42.2906	-104.7625	4355	NCEI	2013-2013
WY	GUERNSEY 2NW	48-4131	DLY	42.2833	-104.7667	4480	NCEI	2011-2023
WY	HAT CREEK	48-4300	DLY	42.9333	-104.3667	4505	NCEI	1948-1967
WY	HAT CREEK 5 E	48-4303	DLY	42.9333	-104.3167	4380	NCEI	1967-1983

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	HAT CREEK 14 N	48-4310	DLY	43.1333	-104.3667	4324	NCEI	1948-1952
WY	HAT CREEK 14 N	48-4310	15M	43.1333	-104.3667	4324	NCEI	1977-1984
WY	HAT CREEK 14 N	48-4310	HLY	43.1333	-104.3667	4324	NCEI	1950-1984
WY	HEART MTN	48-4411	DLY	44.7053	-108.9558	4790	NCEI	1942-2008
WY	HECLA	48-4440	DLY	41.1500	-105.1833	6804	NCEI	1898-1979
WY	HECLA 1E	48-4442	DLY	41.1500	-105.1667	6690	NCEI	1979-2023
WY	HULETT	48-4760	DLY	44.6856	-104.6028	3758	NCEI	1941-2018
WY	JACKSON	48-4910	DLY	43.4864	-110.7617	6210	NCEI	1904-2023
WY	JACKSON	48-4910	HLY	43.4864	-110.7617	6210	NCEI	1948-2013
WY	JACKSON	48-4910	15M	43.4864	-110.7617	6210	NCEI	1972-2013
WY	JEFFREY CITY	48-4925	DLY	42.4942	-107.8292	6319	NCEI	1964-2023
WY	JELM 2S	48-4930	15M	41.0600	-106.0264	7580	NCEI	1972-2013
WY	JELM 2S	48-4930	DLY	41.0600	-106.0264	7580	NCEI	1948-1951
WY	JELM 2S	48-4930	HLY	41.0600	-106.0264	7580	NCEI	1948-2013
WY	KAYCEE	48-5055	DLY	43.7144	-106.6378	4660	NCEI	1900-2023
WY	KAYCEE 17 WNW	48-5060	DLY	43.7667	-106.9667	5663	NCEI	1949-1958
WY	KEELINE 3 W	48-5085	DLY	42.7667	-104.7833	5280	NCEI	1953-1987
WY	KEMMERER 2N	48-5105	DLY	41.8181	-110.5333	6937	NCEI	1901-2023
WY	KENDALL	48-5115	DLY	43.1667	-109.9833	7654	NCEI	1903-1976
WY	LUSK 18 ENE	48-5170	DLY	42.8333	-104.1167	5072	NCEI	1948-1964
WY	LA BARGE	48-5252	DLY	42.2644	-110.1950	6598	NCEI	1958-2012
WY	LA GRANGE	48-5260	DLY	41.6378	-104.1669	4590	NCEI	1948-2010
WY	LAKE YELLOWSTONE	48-5345	15M	44.5622	-110.3986	7892	NCEI	1971-2013
WY	LAKE YELLOWSTONE	48-5345	HLY	44.5622	-110.3986	7892	NCEI	1948-2013
WY	LAKE YELLOWSTONE	48-5345	DLY	44.5622	-110.3986	7892	NCEI	1903-2023
WY	LAMAR RS	48-5355	DLY	44.8956	-110.2342	6575	NCEI	1922-2023
WY	LANCE CREEK 1W	48-5371	DLY	43.0389	-104.6633	4412	NCEI	1948-1952
WY	LANCE CREEK 1W	48-5371	15M	43.0389	-104.6633	4412	NCEI	1984-2013

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	LANCE CREEK 1W	48-5371	HL Y	43.0389	-104.6633	4412	NCEI	1950-2013
WY	LANDER AP	48-5390	HL Y	42.8153	-108.7261	5592	NCEI	1948-2013
WY	LARAMIE	48-5410	DLY	41.3167	-105.5833	7205	NCEI	1891-1961
WY	LARAMIE 2	48-5411	DLY	41.3167	-105.5833	7175	NCEI	1961-1976
WY	LARAMIE AP	48-5415	HL Y	41.3167	-105.6833	7266	NCEI	1948-2013
WY	LARAMIE 2WSW SITE 2	48-5416	DLY	41.2975	-105.6242	7159	NCEI	2011-2014
WY	LARAMIE 2WSW SITE 2	48-5416	HL Y	41.2975	-105.6242	7159	NCEI	2012-2013
WY	LARAMIE 2WSW SITE 2	48-5416	15M	41.2975	-105.6242	7159	NCEI	2012-2013
WY	LARAMIE 2WSW	48-5420	DLY	41.3042	-105.6408	7175	NCEI	1948-1951
WY	LARAMIE 2WSW	48-5420	HL Y	41.3042	-105.6408	7175	NCEI	1948-2010
WY	LARAMIE 2WSW	48-5420	15M	41.3042	-105.6408	7175	NCEI	1971-2010
WY	LARAMIE 2 NW	48-5435	DLY	41.3400	-105.6064	7140	NCEI	1966-2023
WY	LEITER 9N	48-5506	DLY	44.8500	-106.2889	4160	NCEI	1964-2023
WY	LEO 6 SW	48-5525	DLY	42.1953	-106.8556	6035	NCEI	1929-2023
WY	LINGLE 2WSW	48-5612	DLY	42.1297	-104.3900	4158	NCEI	1952-2023
WY	LITTLE MEDICINE 4 NNW	48-5685	DLY	42.4333	-106.0333	7346	NCEI	1904-1951
WY	LITTLE MEDICINE 4 NNW	48-5685	HL Y	42.4333	-106.0333	7346	NCEI	1948-1961
WY	LOST CABIN	48-5734	DLY	43.2833	-107.6333	5415	NCEI	1961-1982
WY	LOVELL	48-5770	DLY	44.8378	-108.4039	3847	NCEI	1897-2023
WY	LUSK 2 SW	48-5830	DLY	42.7506	-104.4811	5090	NCEI	1892-2007
WY	LUSK 18 ENE	48-5832	DLY	42.8167	-104.1167	5003	NCEI	1964-1968
WY	LYMAN	48-5836	DLY	41.3333	-110.3000	6706	NCEI	1956-1960
WY	LYMAN	48-5836	HL Y	41.3333	-110.3000	6706	NCEI	1956-1960
WY	LYMAN	48-5839	DLY	41.3156	-110.2725	6652	NCEI	2018-2023
WY	LYSITE	48-5843	DLY	43.2667	-107.7000	5262	NCEI	1949-1961
WY	MEDICINE BOW	48-6120	HL Y	41.8969	-106.2061	6635	NCEI	1948-2008
WY	MEDICINE BOW	48-6120	DLY	41.8969	-106.2061	6635	NCEI	1948-2023
WY	MEDICINE BOW	48-6120	15M	41.8969	-106.2061	6635	NCEI	1971-2008

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	MEDICINE BOW F&P	48-6132	15M	41.8997	-106.2058	6581	NCEI	2006-2013
WY	MEDICINE BOW F&P	48-6132	HL Y	41.8997	-106.2058	6581	NCEI	2006-2013
WY	MIDDLE FORK	48-6185	HL Y	42.7526	-108.8054	6283	NCEI	1948-1955
WY	MIDDLE FORK	48-6185	DLY	42.7526	-108.8054	6283	NCEI	1948-1955
WY	MIDWEST	48-6195	DLY	43.4131	-106.2772	4860	NCEI	1938-2023
WY	MOORCROFT 3S	48-6395	HL Y	44.2169	-104.9292	4325	NCEI	1948-2013
WY	MOORCROFT 3S	48-6395	15M	44.2169	-104.9292	4325	NCEI	1971-2013
WY	MOORE	48-6422	DLY	41.7667	-105.3667	6000	NCEI	1901-1917
WY	MOOSE	48-6428	DLY	43.6536	-110.7169	6444	NCEI	1958-2023
WY	MOOSE 3 NW	48-6430	DLY	43.7000	-110.7333	6634	NCEI	1935-1958
WY	MORAN 5WNW	48-6440	DLY	43.8567	-110.5889	6805	NCEI	1910-2023
WY	MORAN 5WNW	48-6440	15M	43.8567	-110.5889	6805	NCEI	1984-2013
WY	MORAN 5WNW	48-6440	HL Y	43.8567	-110.5889	6805	NCEI	1948-2013
WY	MORRISEY	48-6450	DLY	43.5167	-104.3333	4104	NCEI	1948-1978
WY	MTN VIEW	48-6555	DLY	41.2658	-110.3375	6800	NCEI	1966-2023
WY	MTN VIEW	48-6555	15M	41.2658	-110.3375	6800	NCEI	1971-2013
WY	MTN VIEW	48-6555	HL Y	41.2658	-110.3375	6800	NCEI	1966-2013
WY	MUDDY GAP	48-6595	DLY	42.3628	-107.4444	6248	NCEI	1949-2008
WY	MUD SPRINGS	48-6597	HL Y	41.3186	-108.9178	6736	NCEI	1953-2013
WY	MUD SPRINGS	48-6597	15M	41.3186	-108.9178	6736	NCEI	1971-2013
WY	MUD SPRINGS	48-6597	DLY	41.3186	-108.9178	6736	NCEI	2014-2023
WY	MULE CREEK	48-6600	HL Y	43.3500	-104.1167	4124	NCEI	1949-1984
WY	MULE CREEK	48-6600	DLY	43.3500	-104.1167	4124	NCEI	1948-1952
WY	NEWCASTLE	48-6660	HL Y	43.8497	-104.1886	4415	NCEI	1948-2013
WY	NEWCASTLE	48-6660	15M	43.8497	-104.1886	4415	NCEI	1971-2013
WY	NEWCASTLE	48-6660	DLY	43.8497	-104.1886	4415	NCEI	1906-2023
WY	NINE MILE CREEK	48-6680	DLY	43.8167	-106.4833	4872	NCEI	1921-1960
WY	OLD FAITHFUL	48-6845	DLY	44.4569	-110.8328	7351	NCEI	1904-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	OLD FT LARAMIE	48-6852	DLY	42.2058	-104.5561	4250	NCEI	1989-2023
WY	OREGON TRAIL CROSSING	48-6875	DLY	42.5419	-108.1850	6542	NCEI	1948-2023
WY	OREGON TRAIL CROSSING	48-6875	HLY	42.5394	-108.1872	6544	NCEI	1948-2013
WY	OREGON TRAIL CROSSING	48-6875	15M	42.5394	-108.1872	6544	NCEI	1971-2013
WY	OSAGE	48-6935	DLY	43.9781	-104.4194	4320	NCEI	1948-1952
WY	OSAGE	48-6935	15M	43.9781	-104.4194	4320	NCEI	1984-2012
WY	OSAGE	48-6935	HLY	43.9781	-104.4194	4320	NCEI	1950-2013
WY	PARKMAN 5 WNW	48-7079	DLY	44.9833	-107.4333	4436	NCEI	1949-1983
WY	PATHFINDER DAM	48-7105	DLY	42.4717	-106.8528	5923	NCEI	1905-2023
WY	PATHFINDER DAM	48-7105	15M	42.4717	-106.8528	5923	NCEI	1984-2013
WY	PATHFINDER DAM	48-7105	HLY	42.4717	-106.8528	5923	NCEI	1948-2013
WY	PAVILLION	48-7115	DLY	43.2458	-108.6942	5480	NCEI	1919-2023
WY	PAVILLION	48-7115	HLY	43.2458	-108.6942	5484	NCEI	1949-1958
WY	PHILLIPS	48-7200	15M	41.6264	-104.4936	4982	NCEI	1971-2013
WY	PHILLIPS	48-7200	HLY	41.6264	-104.4936	4982	NCEI	1948-2013
WY	PHILLIPS	48-7200	DLY	41.6264	-104.4936	4982	NCEI	1948-2018
WY	PINE BLUFFS	48-7235	HLY	41.1833	-104.0667	5074	NCEI	1979-1988
WY	PINE BLUFFS	48-7235	DLY	41.1833	-104.0667	5074	NCEI	1918-1988
WY	PINE BLUFFS	48-7235	15M	41.1833	-104.0667	5074	NCEI	1979-1988
WY	PINE BLUFFS 1ESE	48-7236	DLY	41.1800	-104.0572	5058	NCEI	2012-2023
WY	PINE BLUFFS 1ESE	48-7236	HLY	41.1800	-104.0572	5058	NCEI	2011-2013
WY	PINE BLUFFS 1ESE	48-7236	15M	41.1800	-104.0572	5058	NCEI	2011-2013
WY	PINE BLUFFS 5W	48-7240	HLY	41.1722	-104.1583	5180	NCEI	1948-2010
WY	PINE BLUFFS 5W	48-7240	15M	41.1722	-104.1583	5180	NCEI	1974-2010
WY	PINE BLUFFS 5W	48-7240	DLY	41.1722	-104.1583	5180	NCEI	1948-2009
WY	PINEDALE	48-7260	DLY	42.8744	-109.8581	7210	NCEI	1948-2023
WY	PINE TREE 9 NE	48-7270	DLY	43.7167	-105.6333	5111	NCEI	1949-1952
WY	PINE TREE 9 NE	48-7270	15M	43.7167	-105.6333	5111	NCEI	1976-1984

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	PINE TREE 9 NE	48-7270	HL Y	43.7167	-105.6333	5111	NCEI	1949-1984
WY	POWDER RVR (SCHOOL)	48-7375	HL Y	43.0353	-106.9894	5722	NCEI	1958-2013
WY	POWDER RVR (SCHOOL)	48-7375	15M	43.0353	-106.9894	5722	NCEI	1971-2013
WY	POWDER RVR (SCHOOL)	48-7375	DLY	43.0353	-106.9894	5722	NCEI	1948-2023
WY	POWDER RIVER #2	48-7376	DLY	43.0350	-106.9883	5700	NCEI	1964-2009
WY	POWELL	48-7380	DLY	44.7500	-108.7667	4383	NCEI	1906-1981
WY	POWELL FLD STN	48-7388	DLY	44.7764	-108.7592	4372	NCEI	1981-2023
WY	POWELL FLD STN	48-7388	15M	44.7764	-108.7592	4372	NCEI	1982-2013
WY	POWELL FLD STN	48-7388	HL Y	44.7764	-108.7592	4372	NCEI	1966-2013
WY	QUAKING ASPEN CREEK	48-7420	DLY	43.9833	-109.0833	7454	NCEI	1922-1950
WY	RAIRDEN 2WSW	48-7473	DLY	44.1786	-107.9381	4020	NCEI	1951-2023
WY	RAWLINS	48-7530	DLY	41.7833	-107.2500	6854	NCEI	1948-1954
WY	RAWLINS AP	48-7533	15M	41.8000	-107.2000	6736	NCEI	1984-2005
WY	RAWLINS AP	48-7533	HL Y	41.8000	-107.2000	6736	NCEI	1951-2013
WY	RECLUSE	48-7545	15M	44.7408	-105.7261	4150	NCEI	1971-2011
WY	RECLUSE	48-7545	HL Y	44.7408	-105.7261	4150	NCEI	1948-2011
WY	RECLUSE	48-7545	DLY	44.7408	-105.7261	4150	NCEI	1948-1951
WY	REDBIRD	48-7555	DLY	43.2450	-104.2881	3890	NCEI	1948-2023
WY	RIVERTON	48-7760	15M	43.0306	-108.3744	4955	NCEI	1974-2013
WY	RIVERTON	48-7760	HL Y	43.0306	-108.3744	4955	NCEI	1955-2013
WY	RIVERTON	48-7760	DLY	43.0306	-108.3744	4955	NCEI	1906-2023
WY	RIVERTON USBR	48-7765	HL Y	43.0333	-108.3667	4944	NCEI	1949-1955
WY	RIVERTON USBR	48-7765	DLY	43.0333	-108.3667	4944	NCEI	1949-1952
WY	ROCHELLE 7ENE	48-7810	DLY	43.6450	-104.8414	4239	NCEI	1927-2023
WY	ROCK SPRINGS	48-7840	15M	41.5833	-109.2167	6375	NCEI	1971-1979
WY	ROCK SPRINGS	48-7840	DLY	41.5833	-109.2167	6375	NCEI	1898-1979
WY	ROCK SPRINGS	48-7840	HL Y	41.5833	-109.2167	6375	NCEI	1954-1979
WY	ROCK SPRINGS AP	48-7845	15M	41.5947	-109.0531	6742	NCEI	1979-2013

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	ROCK SPRINGS AP	48-7845	HL Y	41.5947	-109.0531	6742	NCEI	1948-2013
WY	ROCK SPRINGS FIRE DEPT	48-7847	DLY	41.5778	-109.2394	6270	NCEI	2002-2023
WY	ROCKYPOINT 7NNE	48-7885	DLY	44.9917	-105.0472	3910	NCEI	1911-2010
WY	SAGE 4 NNW	48-7955	DLY	41.8667	-111.0000	6210	NCEI	1922-2001
WY	SARATOGA	48-7990	DLY	41.4528	-106.8053	6790	NCEI	1948-2007
WY	SARATOGA 4N	48-7995	DLY	41.5047	-106.7889	6801	NCEI	1948-2023
WY	SARATOGA 4N	48-7995	HL Y	41.5047	-106.7889	6801	NCEI	1948-2013
WY	SARATOGA 4N	48-7995	15M	41.5047	-106.7889	6801	NCEI	1971-2013
WY	SEMINOE DAM	48-8070	HL Y	42.1569	-106.9153	6838	NCEI	1948-2013
WY	SEMINOE DAM	48-8070	15M	42.1569	-106.9153	6838	NCEI	1984-2013
WY	SEMINOE DAM	48-8070	DLY	42.1569	-106.9153	6838	NCEI	1948-2011
WY	SEMINOE RSVR USBR	48-8074	DLY	42.1556	-106.9139	6975	NCEI	2011-2023
WY	SHELL	48-8124	HL Y	44.5353	-107.7775	4242	NCEI	1953-1958
WY	SHELL	48-8124	DLY	44.5353	-107.7775	4242	NCEI	1958-2023
WY	SHERIDAN AP	48-8155	HL Y	44.7694	-106.9689	3945	NCEI	1948-2013
WY	SHERIDAN FLD STN	48-8160	DLY	44.8406	-106.8383	3750	NCEI	1919-2023
WY	SHERIDAN NO. 2	48-8163	DLY	44.8167	-106.9500	3750	NCEI	1893-1911
WY	SHIRLEY BASIN	48-8192	HL Y	42.3703	-106.1050	7057	NCEI	1961-2013
WY	SHIRLEY BASIN	48-8192	DLY	42.3703	-106.1050	7057	NCEI	1977-2023
WY	SHIRLEY BASIN	48-8192	15M	42.3703	-106.1050	7057	NCEI	1973-2013
WY	SHOSHONI	48-8209	DLY	43.2372	-108.1097	4837	NCEI	1931-2023
WY	SNAKE RVR	48-8315	DLY	44.1364	-110.6664	6882	NCEI	1905-2023
WY	SOUTH PASS CITY	48-8385	DLY	42.4667	-108.8000	7840	NCEI	1900-2014
WY	SOUTH PASS CITY 2 NW	48-8410	DLY	42.4833	-108.8167	8090	NCEI	1988-1990
WY	SPENCER 10 NE	48-8475	DLY	43.4333	-104.1667	3802	NCEI	1917-1974
WY	STORY	48-8626	DLY	44.5767	-106.9061	5168	NCEI	1950-2023
WY	STORY	48-8626	HL Y	44.5767	-106.9061	5168	NCEI	1950-2013
WY	STORY	48-8626	15M	44.5767	-106.9061	5168	NCEI	1976-2013

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	SUNDANCE	48-8705	DLY	44.4122	-104.3567	4695	NCEI	1893-2021
WY	SUNSHINE 3 SW	48-8748	DLY	43.9897	-109.0504	6844	NCEI	1950-1963
WY	SUNSHINE 3NE	48-8758	DLY	44.0758	-108.9547	6224	NCEI	1963-2020
WY	SYBILLE RSCH UNIT	48-8808	DLY	41.7644	-105.3750	6086	NCEI	1964-2023
WY	TENNYSON	48-8845	DLY	41.3500	-104.3833	5616	NCEI	1941-1981
WY	TENSLEEP 4NE	48-8852	HLY	44.0647	-107.3819	4748	NCEI	1964-2013
WY	TENSLEEP 4NE	48-8852	DLY	44.0647	-107.3819	4748	NCEI	1964-2023
WY	TENSLEEP 4NE	48-8852	15M	44.0647	-107.3819	4748	NCEI	1982-2013
WY	TEN SLEEP	48-8855	HLY	44.0333	-107.4500	4514	NCEI	1948-1964
WY	TEN SLEEP	48-8855	DLY	44.0333	-107.4500	4514	NCEI	1902-1964
WY	TENSLEEP 16SSE	48-8858	DLY	43.8111	-107.3653	4680	NCEI	1955-2023
WY	TENSLEEP 16SSE	48-8858	HLY	43.8111	-107.3653	4680	NCEI	1979-2013
WY	TENSLEEP 16SSE	48-8858	15M	43.8111	-107.3653	4680	NCEI	1979-2013
WY	THERMOPOLIS	48-8875	DLY	43.6483	-108.2036	4321	NCEI	1899-2023
WY	THERMOPOLIS	48-8875	15M	43.6483	-108.2036	4321	NCEI	1984-2013
WY	THERMOPOLIS	48-8875	HLY	43.6483	-108.2036	4321	NCEI	1949-2013
WY	THERMOPOLIS 2	48-8880	DLY	43.6500	-108.2167	4400	NCEI	1965-1990
WY	THERMOPOLIS 9NE	48-8884	DLY	43.7533	-108.1431	4282	NCEI	1991-2023
WY	THERMOPOLIS 21WNW	48-8888	DLY	43.7231	-108.6964	5510	NCEI	1951-2012
WY	THERMOPOLIS 21WNW	48-8888	15M	43.7231	-108.6964	5510	NCEI	1975-2013
WY	THERMOPOLIS 21WNW	48-8888	HLY	43.7231	-108.6964	5510	NCEI	1951-2013
WY	TORRINGTON EXP FARM	48-8995	15M	42.0803	-104.2236	4098	NCEI	1984-2008
WY	TORRINGTON EXP FARM	48-8995	DLY	42.0803	-104.2236	4098	NCEI	1921-2007
WY	TORRINGTON EXP FARM	48-8995	HLY	42.0803	-104.2236	4098	NCEI	1979-2008
WY	TORRINGTON 1 S	48-9000	DLY	42.0500	-104.1833	4091	NCEI	1948-1951
WY	TORRINGTON 1 S	48-9000	HLY	42.0500	-104.1833	4091	NCEI	1948-1979
WY	TOWER FALLS	48-9025	DLY	44.9167	-110.4203	6275	NCEI	1948-2023
WY	UPTON	48-9205	DLY	44.0928	-104.6114	4320	NCEI	1908-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	UPTON 13 SW	48-9207	DLY	43.9269	-104.7456	4780	NCEI	1948-2001
WY	WAMSUTTER	48-9459	DLY	41.6717	-107.9783	6740	NCEI	1897-2023
WY	WAPITI 1WSW	48-9467	HLY	44.4594	-109.4164	5558	NCEI	1950-1950
WY	WAPITI 1WSW	48-9467	DLY	44.4594	-109.4164	5558	NCEI	1950-2018
WY	WESTON 1 E	48-9580	DLY	44.6403	-105.3008	3738	NCEI	1951-2023
WY	WHALEN DAM USBR	48-9604	DLY	42.2494	-104.6281	4294	NCEI	1949-2023
WY	WHEATLAND 4 N	48-9615	HLY	42.1106	-104.9492	4638	NCEI	1948-2013
WY	WHEATLAND 4 N	48-9615	15M	42.1106	-104.9492	4638	NCEI	1971-2013
WY	WHEATLAND 4 N	48-9615	DLY	42.1106	-104.9492	4638	NCEI	1892-2023
WY	WORLAND	48-9770	HLY	44.0114	-107.9683	4058	NCEI	1964-2013
WY	WORLAND	48-9770	15M	44.0114	-107.9683	4058	NCEI	1993-2013
WY	WORLAND	48-9770	DLY	44.0114	-107.9683	4058	NCEI	1906-2023
WY	WYNCOTE	48-9880	DLY	42.1500	-104.3833	4250	NCEI	1905-1921
WY	YELLOWSTONE NP E ENT	48-9902	DLY	44.4886	-110.0039	6954	NCEI	2000-2023
WY	YELLOWSTONE PARK MAMMOTH	48-9905	DLY	44.9767	-110.6964	6195	NCEI	1893-2023
WY	YODER 5 W	48-9925	DLY	41.9131	-104.3881	4330	NCEI	1921-2011
MT	FORT ASSINNIBOINE	52-3110	DLY	48.5019	-109.7942	2663	FORTS	1880-1889
MT	FORT ASSINNIBOINE	52-3111	DLY	48.5019	-109.7942	2663	FORTS	1880-1892
MT	FORT BENTON	52-3113	DLY	47.8215	-110.6635	2623	FORTS	1869-1886
MT	FORT BENTON	52-3122	DLY	47.2833	-110.8000	2623	FORTS	1869-1881
MT	FORT KEOGH	52-3148	DLY	46.3789	-105.8858	2374	FORTS	1877-1893
MT	FORT KEOGH	52-3149	DLY	46.3806	-105.8864	2374	FORTS	1879-1883
MT	FORT LOGAN	52-3157	DLY	46.6786	-111.1736	4640	FORTS	1870-1892
MT	FORT SHAW	52-3195	DLY	47.5094	-111.8214	3509	FORTS	1867-1891
WY	FORT LARAMIE	52-3485	DLY	42.2103	-104.5369	4230	FORTS	1849-1892
MT	HELENA	52-4050	DLY	46.5872	-112.0394	4095	FORTS	1866-1892
ID	LEWISTON	52-5230	DLY	46.4292	-116.9667	780	FORTS	1888-1891
ID	LEWISTON	52-5236	DLY	46.4217	-117.0275	735	FORTS	1879-1885

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	LARAMIE	52-5410	DLY	41.3133	-105.5808	7190	FORTS	1868-1892
WY	LARAMIE	52-5411	DLY	41.3111	-105.5936	7160	FORTS	1871-1891
MT	FORT MISSOULA	52-5737	DLY	46.8428	-114.0617	3150	FORTS	1880-1893
MT	POPLAR RIVER	52-6660	DLY	48.1131	-105.1983	2000	FORTS	1882-1893
MT	FORT SHAW	52-8021	DLY	47.5094	-111.8214	3509	FORTS	1880-1886
MT	VIRGINIA CITY	52-8597	DLY	45.2931	-111.9467	5785	FORTS	1871-1892
MT	ST. MARY	53-0098	HLY	48.7386	-113.4295	4560	NCEI	2016-2017
MT	WEST YELLOWSTONE USFS	53-0109	HLY	44.6658	-111.0983	6660	NCEI	1981-2017
WY	JELM 2S	53-0158	HLY	41.0599	-106.0263	7580	NCEI	1948-2017
WY	MOORCROFT 3S	53-0163	HLY	44.2169	-104.9291	4325	NCEI	1948-2012
ID	BOISE LUCKY PEAK DAM	54-0014	15M	43.5253	-116.0542	2840	NCEI	1971-2020
ID	COEUR D'ALENE	54-0016	15M	47.6821	-116.7967	2133	NCEI	1971-2019
ID	COTTONWOOD 2 WSW	54-0017	15M	46.0336	-116.3919	3945	NCEI	1978-2020
ID	DIXIE	54-0018	15M	45.5525	-115.4605	5620	NCEI	1978-2020
ID	DUBOIS EXPERIMENT STATION	54-0019	15M	44.2436	-112.2003	5450	NCEI	1979-2020
ID	ELK CITY 1NE	54-0021	15M	45.8356	-115.4610	4058	NCEI	1979-2015
ID	FENN RANGER STATION	54-0022	15M	46.0930	-115.5355	1560	NCEI	1971-2020
ID	GOODING 1 S	54-0023	15M	42.9183	-114.7664	3643	NCEI	1971-2020
ID	GRACE	54-0024	15M	42.5872	-111.7275	5550	NCEI	1978-2020
ID	GRANGEVILLE 1N	54-0025	15M	45.9397	-116.1211	3310	NCEI	2000-2020
ID	GRASMERE 3 S	54-0026	15M	42.3450	-115.8836	5140	NCEI	1976-2020
ID	ISLAND PARK	54-0029	15M	44.4203	-111.3710	6290	NCEI	2000-2020
ID	KETCHUM RANGER STATION	54-0030	15M	43.6841	-114.3602	5890	NCEI	1975-2020
ID	LEADORE NO. 2	54-0031	15M	44.6830	-113.3622	6000	NCEI	2009-2020
ID	MACKAY LOST RIVER RS	54-0032	15M	43.9178	-113.6152	5897	NCEI	1978-2020
ID	MCCALL	54-0034	15M	44.8871	-116.1046	5025	NCEI	1971-2020
ID	MOUNTAIN HOME	54-0035	15M	43.1261	-115.7119	3140	NCEI	1971-2017
ID	MULLAN	54-0036	15M	47.4661	-115.8113	3201	NCEI	1972-2019

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	MURPHY (DESERT) HOT SPRINGS	54-0037	15M	42.0264	-115.3596	5152	NCEI	1987-2020
ID	OLA	54-0038	15M	44.1758	-116.2827	3075	NCEI	1991-2019
ID	PORTHILL 1 SW	54-0039	15M	48.9938	-116.5024	1799	NCEI	1971-2019
ID	PRAIRIE	54-0040	15M	43.5063	-115.5716	4780	NCEI	1977-2020
ID	SANDPOINT EXP STATION	54-0041	15M	48.2943	-116.5627	2126	NCEI	1972-2019
ID	TETONIA EXPERIMENT STN	54-0044	15M	43.8563	-111.2769	6170	NCEI	1972-2020
ID	TOPAZ	54-0045	15M	42.6251	-112.0879	4918	NCEI	1978-2018
ID	YELLOWPINE BAR	54-0047	15M	45.5450	-115.2514	2480	NCEI	1987-2013
MT	ABSAROKEE	54-0048	15M	45.5443	-109.3935	3955	NCEI	1971-2020
MT	ALZADA	54-0049	15M	45.0155	-104.4108	3450	NCEI	1984-2020
MT	ASHLAND RANGER STATION	54-0050	15M	45.5938	-106.2722	2940	NCEI	1973-2020
MT	BAYLOR	54-0051	15M	48.6715	-106.4808	2963	NCEI	1984-2020
MT	BOULDER	54-0052	15M	46.2310	-112.1138	4904	NCEI	1971-2020
MT	BREDETTE	54-0053	15M	48.5155	-105.2991	2313	NCEI	1984-2020
MT	BRIDGER 2 N	54-0054	15M	45.3261	-108.9091	3583	NCEI	1984-2020
MT	BROADUS	54-0055	15M	45.4441	-105.4072	3032	NCEI	1973-2020
MT	BROWNING	54-0056	15M	48.5615	-113.0133	4355	NCEI	1979-2020
MT	BUTTE 8 S	54-0057	15M	45.8966	-112.5471	5700	NCEI	1971-2020
MT	CARDWELL	54-0058	15M	45.8604	-111.9582	4270	NCEI	1978-2020
MT	CHOTEAU	54-0059	15M	47.8205	-112.1921	3845	NCEI	1971-2020
MT	COHAGEN	54-0060	15M	47.0564	-106.6164	2720	NCEI	1981-2020
MT	CONTENT 4 NNE	54-0061	15M	48.0500	-107.5500	997	NCEI	1984-2020
MT	CUT BANK AIRPORT	54-0063	15M	48.6033	-112.3752	3838	NCEI	1984-2020
MT	DILLON 9 SSE	54-0064	15M	45.0918	-112.6044	5500	NCEI	1978-2020
MT	DIVIDE	54-0065	15M	45.7510	-112.7547	5350	NCEI	1972-2020
MT	DODSON 11 N	54-0066	15M	48.5542	-108.2067	2710	NCEI	1984-2020
MT	DUTTON 6 E	54-0068	15M	47.8433	-111.5795	3594	NCEI	1971-2020
MT	EKALAKA	54-0069	15M	45.8863	-104.5478	3432	NCEI	1984-2020

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	EUREKA RANGER STATION	54-0070	15M	48.8978	-115.0644	2532	NCEI	1971-2020
MT	FORT PECK POWER PLANT	54-0071	15M	48.0121	-106.4117	2071	NCEI	1971-2020
MT	GALLATIN GATEWAY 10SSW	54-0072	15M	45.4458	-111.2369	5441	NCEI	2012-2020
MT	GIBBONS PASS	54-0073	15M	45.6928	-113.9550	7070	NCEI	1974-2020
MT	GLENDIVE	54-0074	15M	47.1059	-104.7176	2075	NCEI	1978-2020
MT	GREAT FALLS WFO	54-0075	15M	47.4615	-111.3850	3705	NCEI	2011-2020
MT	HILGER	54-0077	15M	47.2531	-109.3610	4080	NCEI	1975-2020
MT	HOLTER DAM	54-0078	15M	46.9907	-112.0116	3487	NCEI	1971-2020
MT	ISMAY	54-0079	15M	46.5400	-104.7522	2715	NCEI	1984-2020
MT	JOPLIN	54-0080	15M	48.5595	-110.7719	3323	NCEI	1979-2020
MT	LAKEVIEW	54-0081	15M	44.5994	-111.8125	6710	NCEI	1971-2020
MT	LAVINA	54-0082	15M	46.2930	-108.9416	3434	NCEI	1984-2020
MT	LEWISTOWN 2 SW	54-0083	15M	47.0512	-109.4426	4100	NCEI	1972-2020
MT	LIMA	54-0085	15M	44.6331	-112.5928	6279	NCEI	1984-2020
MT	LIVINGSTON RAIN GAUGE	54-0086	15M	45.6970	-110.4540	4697	NCEI	2009-2020
MT	LODGE GRASS	54-0087	15M	45.3790	-107.3787	3263	NCEI	1971-2020
MT	LOGAN 2 W	54-0088	15M	45.8908	-111.4588	4089	NCEI	1971-2020
MT	MALTA #2	54-0089	15M	48.3469	-107.8769	2288	NCEI	1999-2020
MT	MILES CITY AIRPORT	54-0092	15M	46.4266	-105.8825	2624	NCEI	2019-2020
MT	MILLEGAN	54-0093	15M	47.0206	-111.3699	4500	NCEI	1971-2020
MT	MOLT 6 SW	54-0094	15M	45.7846	-108.9663	3990	NCEI	1984-2020
MT	PHILLIPSBURG RANGER STATION	54-0095	15M	46.3158	-113.3000	5270	NCEI	1978-2020
MT	PLAINS RANGER STATION	54-0096	15M	47.4661	-114.8794	2490	NCEI	1978-2020
MT	REEDPOINT	54-0099	15M	45.7061	-109.5399	3744	NCEI	1984-2020
MT	RUSSELL	54-0100	15M	48.0685	-111.0661	3200	NCEI	1981-2020
MT	ST. MARY	54-0101	15M	48.7386	-113.4295	4560	NCEI	1981-2020
MT	SCOBAY 4 NW	54-0102	15M	48.8355	-105.4748	2390	NCEI	1979-2020
MT	SHELBY	54-0103	15M	48.5133	-111.8551	3325	NCEI	1992-2020

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	SILVERSTAR	54-0105	15M	45.6917	-112.2834	4585	NCEI	1984-2020
MT	STEVENSVILLE	54-0106	15M	46.5137	-114.0910	3375	NCEI	1978-2020
MT	TERRY 25 NNW	54-0108	15M	47.1167	-105.5500	3333	NCEI	1984-2020
MT	TOWNSEND 12 ENE	54-0109	15M	46.3566	-111.2841	5050	NCEI	1971-2020
MT	VANANDA 6 NE	54-0110	15M	46.4300	-106.9200	2625	NCEI	1984-2020
MT	WESTBY	54-0111	15M	48.8745	-104.0504	2103	NCEI	1984-2020
MT	WEST YELLOWSTONE USFS	54-0112	15M	44.6660	-111.0991	6660	NCEI	1981-2020
MT	WINNETT 8 ESE	54-0114	15M	46.9393	-108.1968	2810	NCEI	1984-2020
MT	YELLOWTAIL DAM	54-0115	15M	45.3127	-107.9383	3305	NCEI	1979-2020
MT	ZORTMAN	54-0116	15M	47.9185	-108.5244	4035	NCEI	1978-2020
WY	BIG PINEY UP&L	54-0152	15M	42.5364	-110.1127	6822	NCEI	1992-2020
WY	BOYSEN DAM	54-0153	15M	43.4054	-108.1634	4875	NCEI	1971-2020
WY	BUFFALO	54-0154	15M	44.3545	-106.6994	4639	NCEI	1971-2020
WY	DOUGLAS 17NE	54-0156	15M	42.9533	-105.1650	4930	NCEI	1976-2020
WY	DUBOIS	54-0157	15M	43.5398	-109.6552	6955	NCEI	1981-2020
WY	DULL CENTER 1SE	54-0158	15M	43.4117	-104.9614	4415	NCEI	1984-2020
WY	ENCAMPMENT	54-0159	15M	41.2058	-106.7883	7290	NCEI	1972-2020
WY	GUERNSEY DAM NO 2	54-0160	15M	42.2905	-104.7625	4355	NCEI	2012-2018
WY	LAKE YELLOWSTONE	54-0163	15M	44.5621	-110.3986	7892	NCEI	1971-2020
WY	MEDICINE BOW F&P	54-0166	15M	41.8998	-106.2059	6581	NCEI	2006-2017
WY	MOORCROFT 3S	54-0167	15M	44.2169	-104.9291	4325	NCEI	1971-2012
WY	MOUNTAIN VIEW	54-0168	15M	41.2659	-110.3375	6800	NCEI	1971-2020
WY	MUD SPRINGS	54-0169	15M	41.3185	-108.9176	6736	NCEI	1971-2020
WY	NEWCASTLE	54-0170	15M	43.8497	-104.1886	4415	NCEI	1971-2020
WY	OREGON TRAIL CROSSING	54-0171	15M	42.5393	-108.1872	6544	NCEI	1971-2020
WY	PATHFINDER DAM	54-0173	15M	42.4717	-106.8527	5923	NCEI	1984-2020
WY	PHILLIPS	54-0174	15M	41.6263	-104.4936	4982	NCEI	1971-2020
WY	PINE BLUFFS 1ESE	54-0175	15M	41.1799	-104.0573	5058	NCEI	2011-2020

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	POWDER RIVER (SCHOOL)	54-0176	15M	43.0352	-106.9895	5722	NCEI	1971-2020
WY	POWELL FIELD STATION	54-0177	15M	44.7764	-108.7590	4372	NCEI	1982-2020
WY	RIVERTON	54-0180	15M	43.0307	-108.3743	4955	NCEI	1974-2020
WY	SARATOGA 4N	54-0183	15M	41.5047	-106.7888	6801	NCEI	1971-2017
WY	SEMINOE DAM	54-0184	15M	42.1569	-106.9153	6838	NCEI	1984-2020
WY	SHIRLEY BASIN	54-0185	15M	42.3703	-106.1049	7057	NCEI	1973-2018
WY	STORY	54-0186	15M	44.5767	-106.9062	5168	NCEI	1976-2020
WY	TENSLEEP 4NE	54-0187	15M	44.0648	-107.3820	4748	NCEI	1982-2020
WY	TENSLEEP 16SSE	54-0188	15M	43.8111	-107.3653	4680	NCEI	1979-2020
WY	THERMOPOLIS	54-0189	15M	43.6483	-108.2037	4321	NCEI	1984-2020
WY	WHEATLAND 4 N	54-0192	15M	42.1106	-104.9492	4638	NCEI	1971-2020
WY	WORLAND	54-0193	15M	44.0113	-107.9684	4058	NCEI	1993-2020
MT	LIMA (JUDITH GAP)	55-0119	HL Y	46.7000	-109.7330	4640	NCEI	2012-2023
ID	CHALLIS AIRPORT	55-0125	HL Y	44.5230	-114.2150	5072	NCEI	2005-2023
WY	CHEYENNE AIRPORT	55-0138	HL Y	41.1580	-104.8070	6113	NCEI	1948-2023
WY	LARAMIE REGIONAL AIRPORT	55-0141	HL Y	41.3170	-105.6830	7266	NCEI	1997-2023
WY	NATRONA COUNTY INTERNATIONAL	55-0152	HL Y	42.8980	-106.4740	5318	NCEI	1950-2023
WY	RCK SRINGS-SWETWTER CO APT	55-0164	HL Y	41.5950	-109.0530	6742	NCEI	1990-2023
WY	TORRINGTON MUNICIPAL ARPT	55-0170	HL Y	42.0610	-104.1580	4199	NCEI	2006-2023
WY	RIVERTON REGIONAL	55-0171	HL Y	43.0640	-108.4590	5525	NCEI	1996-2007
ID	LOWELL THREE RIVERS RESORT	55-0177	HL Y	46.1440	-115.5960	1480	NCEI	2006-2023
ID	IDAHO FALLS REGIONAL ARPT	55-0178	HL Y	43.5190	-112.0640	4733	NCEI	1996-2023
ID	JSIN FLD-MAGIC VLY RGN APT	55-0188	HL Y	42.4820	-114.4870	4151	NCEI	2006-2023
ID	BURLEY MUNICIPAL AIRPORT	55-0189	HL Y	42.5420	-113.7660	4154	NCEI	2000-2023
WY	GILLETTE-CAMPBELL CO. ARPT	55-0201	HL Y	44.3390	-105.5420	4354	NCEI	2006-2023
WY	JOHNSON COUNTY AIRPORT	55-0202	HL Y	44.3810	-106.7210	4967	NCEI	2006-2023
WY	SHERIDAN COUNTY AIRPORT	55-0203	HL Y	44.7690	-106.9690	3945	NCEI	1972-2023
WY	WORLAND MUNICIPAL AIRPORT	55-0205	HL Y	43.9660	-107.9510	4172	NCEI	2000-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	RAWLINS MUNI/HARVEY FIELD AR	55-0209	HL Y	41.8000	-107.2000	6736	NCEI	2010-2023
WY	BIG PINEY-MARBLETON ARPT	55-0212	HL Y	42.5840	-110.1080	6970	NCEI	1999-2023
WY	RIVERTON REGIONAL AIRPORT	55-0213	HL Y	43.0640	-108.4590	5445	NCEI	2007-2023
MT	BILLINGS LOGAN INTERNATIONAL	55-0217	HL Y	45.8070	-108.5420	3581	NCEI	1972-2023
MT	BAKER MUNICIPAL AIRPORT	55-0221	HL Y	46.3580	-104.2500	2971	NCEI	2006-2023
MT	GALLATIN FIELD AIRPORT	55-0225	HL Y	45.7880	-111.1610	4427	NCEI	1972-2023
ID	BOISE AIR TERMINAL/GOWEN FD	55-0229	HL Y	43.5670	-116.2410	2872	NCEI	1972-2023
ID	MULLAN PASS	55-0233	HL Y	47.4570	-115.6450	6028	NCEI	1999-2023
ID	REXBURG-MADISON COUNTY APT	55-0234	HL Y	43.8320	-111.8080	4862	NCEI	1999-2023
MT	HELENA REGIONAL AIRPORT	55-0252	HL Y	46.6060	-111.9640	3828	NCEI	1972-2023
MT	MISSOULA INTERNATIONAL AIRPO	55-0254	HL Y	46.9210	-114.0930	3192	NCEI	1972-2023
MT	MALMSTROM AFHP HELIPORT	55-0259	HL Y	47.5170	-111.1830	3472	NCEI	2004-2023
MT	HAVRE CITY-COUNTY AIRPORT	55-0261	HL Y	48.5430	-109.7630	2585	NCEI	1992-2023
ID	LEWISTON-NEZ PERCE COUNTY AI	55-0265	HL Y	46.3750	-117.0160	1442	NCEI	1973-2023
MT	FRANK WILEY FIELD AIRPORT	55-0279	HL Y	46.4270	-105.8830	2624	NCEI	1984-2023
MT	LEWISTOWN MUNICIPAL ARPT	55-0311	HL Y	47.0490	-109.4580	4146	NCEI	1948-1964
WY	LANDER 11 SSE	57-0009	HL Y	42.6754	-108.6686	5773	NCEI	2004-2021
WY	LANDER 11 SSE	57-0009	15M	42.6754	-108.6686	5773	NCEI	2006-2021
WY	LANDER 11 SSE	57-0009	DLY	42.6754	-108.6686	5773	NCEI	2004-2021
MT	ST. MARY 1 SSW	57-0020	15M	48.7412	-113.4330	4555	NCEI	2006-2021
MT	ST. MARY 1 SSW	57-0020	HL Y	48.7412	-113.4330	4555	NCEI	2003-2021
MT	ST. MARY 1 SSW	57-0020	DLY	48.7412	-113.4330	4555	NCEI	2003-2021
WY	NEWCASTLE	61-0001	DLY	43.8730	-104.1917	4810	NADP	1981-2017
WY	SOUTH PASS CITY	61-0003	DLY	42.4944	-108.8320	8281	NADP	1985-2017
MT	CLANCY	61-0026	DLY	46.4850	-112.0647	4751	NADP	1984-2017
MT	LITTLE BIGHORN BATTLEFIELD NAT	61-0028	DLY	45.5701	-107.4380	3156	NADP	1984-2017
ID	HEADQUARTERS	61-0031	DLY	46.6278	-115.8194	3179	NADP	1982-1991
MT	SIDNEY	62-0027	DLY	47.7167	-104.1667	1919	AWDN	1995-2021

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	SIDNEY	62-0027	HL Y	47.7167	-104.1667	1919	AWDN	1995-2021
WY	PINEBLUFFS	62-0069	DLY	41.1833	-104.1000	5098	AWDN	1985-1994
WY	PINEBLUFFS	62-0069	HL Y	41.1833	-104.1000	5098	AWDN	1985-1994
MT	CROW AGENCY E	63-0027	DLY	45.5900	-107.4400	3091	MT MESO	2017-2022
WY	RAWLINS MUNICIPAL	64-0189	HL Y	41.8000	-107.2000	6743	NCEI	1972-2010
WY	RAWLINS MUNICIPAL	64-0189	DLY	41.8000	-107.2000	6743	NCEI	1972-2010
WY	HUNT FIELD AIRPORT	64-0195	HL Y	42.8150	-108.7260	5573	NCEI	1972-2023
WY	HUNT FIELD AIRPORT	64-0195	DLY	42.8150	-108.7260	5573	NCEI	1972-2023
ID	POCATELLO REGIONAL AIRPORT	64-0205	DLY	42.9200	-112.5720	4451	NCEI	1972-2023
ID	POCATELLO REGIONAL AIRPORT	64-0205	HL Y	42.9200	-112.5720	4451	NCEI	1972-2023
ID	LOWELL	64-0207	DLY	46.1446	-115.5930	1575	NCEI	1983-2005
ID	JOSLIN FLD MAGIC VA	64-0222	DLY	42.4830	-114.4830	4150	NCEI	1972-2005
MT	LEWISTOWN MUNICIPAL ARPT	64-0276	HL Y	47.0540	-109.4570	4125	NCEI	1996-2023
MT	LEWISTOWN MUNICIPAL ARPT	64-0276	DLY	47.0540	-109.4570	4125	NCEI	1972-2023
MT	WOKAL FIELD/GLASGOW INTL AIR	64-0312	DLY	48.2140	-106.6210	2289	NCEI	1972-2023
MT	WOKAL FIELD/GLASGOW INTL AIR	64-0312	HL Y	48.2140	-106.6210	2289	NCEI	1972-2023
MT	MISSOULA INTERNATIONAL AIRPO	64-0324	DLY	46.9210	-114.0940	3195	NCEI	1972-2023
MT	MISSOULA INTERNATIONAL AIRPO	64-0324	HL Y	46.9210	-114.0940	3195	NCEI	1972-2023
MT	BERT MOONEY AIRPORT	64-0327	HL Y	45.9640	-112.5010	5505	NCEI	2004-2023
MT	BERT MOONEY AIRPORT	64-0327	DLY	45.9640	-112.5010	5505	NCEI	2004-2023
MT	MALMSTROM AFHP HELIPORT	64-0329	HL Y	47.5170	-111.1830	3472	NCEI	2004-2023
MT	MALMSTROM AFHP HELIPORT	64-0329	DLY	47.5170	-111.1830	3472	NCEI	1971-2023
MT	GLACIER PARK INTERNATIONAL A	64-0333	HL Y	48.3040	-114.2640	2963	NCEI	1972-2023
MT	GLACIER PARK INTERNATIONAL A	64-0333	DLY	48.3040	-114.2640	2963	NCEI	1972-2023
MT	DRUMMOND AVIATION	64-0413	HL Y	46.6380	-113.1760	4000	NCEI	1948-1954
ID	LOWERWEATHER	65-0003	HL Y	43.6885	-116.1699	3776	DCEW	1999-2022
ID	TREELINE	65-0005	HL Y	43.7302	-116.1401	5282	DCEW	1999-2020
ID	BENTON DAM (1007891)	66-0001	DLY	48.3502	-116.8071	2641	PREF	1941-2020

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	KUNA 1.5 SSE	69-1272	DLY	43.4704	-116.4037	2742	NCEI	2008-2023
ID	BOISE 2.1 NNE	69-1274	DLY	43.6323	-116.2045	2716	NCEI	2009-2023
ID	POCATELLO 2.9 E	69-1311	DLY	42.8708	-112.4126	4858	NCEI	2014-2023
ID	ST. MARIES 2.8 S	69-1359	DLY	47.2750	-116.5770	2516	NCEI	2009-2023
ID	SODA SPRINGS 0.3 W	69-1360	DLY	42.6590	-111.5923	5806	NCEI	2009-2023
ID	NAMPA 4.8 NNW	69-1378	DLY	43.6453	-116.5940	2444	NCEI	2014-2023
ID	MOUNTAIN HOME 0.9 SW	69-1387	DLY	43.1307	-115.7040	3146	NCEI	2017-2023
ID	GRANGEVILLE 0.2 ENE	69-1404	DLY	45.9270	-116.1168	3380	NCEI	2016-2023
ID	MOSCOW 7.3 ENE	69-1430	DLY	46.7762	-116.8570	3116	NCEI	2008-2015
MT	LODGE GRASS 4.5 N	69-1474	DLY	45.3796	-107.3778	3263	NCEI	2010-2021
MT	FORT SMITH 0.5 ENE	69-1476	DLY	45.3108	-107.9163	3283	NCEI	2013-2023
MT	HIGHWOOD 0.1 NNE	69-1510	DLY	47.5851	-110.7890	3398	NCEI	2007-2014
MT	ISMAY 3.4 NE	69-1520	DLY	46.5396	-104.7518	2718	NCEI	2011-2023
MT	KALISPELL 10.1 SW	69-1540	DLY	48.0913	-114.4642	3255	NCEI	2006-2023
MT	WHITEFISH 0.8 ESE	69-1542	DLY	48.4106	-114.3293	3045	NCEI	2007-2023
MT	KALISPELL 1.7 NW	69-1547	DLY	48.2180	-114.3398	3020	NCEI	2008-2023
MT	RYEGATE 0.3 E	69-1576	DLY	46.2990	-109.2471	3649	NCEI	2010-2023
MT	BOULDER 0.3 E	69-1583	DLY	46.2358	-112.1141	4904	NCEI	2008-2023
MT	ROUNDUP 6.2 ENE	69-1613	DLY	46.4779	-108.4165	3148	NCEI	2007-2023
MT	ROUNDUP 1.8 NNE	69-1625	DLY	46.4714	-108.5208	3319	NCEI	2012-2023
MT	MISSOULA 4.9 N	69-1637	DLY	46.9392	-114.0194	3550	NCEI	2007-2023
MT	SEELEY LAKE 0.3 ESE	69-1640	DLY	47.1784	-113.4780	4068	NCEI	2007-2023
MT	LIVINGSTON 0.4 SSW	69-1655	DLY	45.6581	-110.5657	4518	NCEI	2007-2018
MT	WILSALL 0.3 NW	69-1656	DLY	45.9973	-110.6622	5100	NCEI	2007-2023
MT	LIVINGSTON 0.9 WSW	69-1662	DLY	45.6580	-110.5817	4605	NCEI	2011-2023
MT	FORSYTH 1.5 ENE (CLOSED)	69-1682	DLY	46.2728	-106.6471	2581	NCEI	2010-2015
MT	PLENTYWOOD 0.6 W	69-1715	DLY	48.7748	-104.5670	2044	NCEI	2007-2023
MT	ABSAROKEE 0.6 S	69-1725	DLY	45.5442	-109.3936	3955	NCEI	2007-2020

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	LARAMIE .73 ENE	69-2149	DLY	41.3139	-105.5774	7221	NCEI	2004-2020
WY	LARAMIE 0.8 NNE	69-2154	DLY	41.3221	-105.5837	7172	NCEI	2004-2015
WY	LARAMIE 0.8 N	69-2171	DLY	41.3225	-105.5812	7184	NCEI	2013-2021
WY	CENTENNIAL 1.1 NNE	69-2192	DLY	41.3122	-106.1313	8192	NCEI	2014-2023
WY	MEDICINE BOW 0.3 NE	69-2270	DLY	41.8991	-106.2002	6565	NCEI	2004-2015
WY	SARATOGA 0.3 ESE (USDA SERVICE	69-2278	DLY	41.4493	-106.8073	6818	NCEI	2008-2023
WY	BAGGS 0.2 NNW	69-2279	DLY	41.0386	-107.6572	6234	NCEI	2008-2023
WY	ELK MOUNTAIN 0.3 SW	69-2284	DLY	41.6842	-106.4175	7288	NCEI	2014-2023
WY	LANDER 5.7 SW	69-2316	DLY	42.7630	-108.7933	6088	NCEI	2009-2023
WY	TORRINGTON 1.0 WSW	69-2341	DLY	42.0614	-104.2006	4101	NCEI	2008-2016
WY	TORRINGTON	69-2343	DLY	42.0586	-104.1684	4098	NCEI	2005-2023
WY	FORT LARAMIE 0.2 NW	69-2354	DLY	42.2139	-104.5192	4246	NCEI	2013-2023
WY	BARNUM 5.0 NNW	69-2384	DLY	43.7344	-106.9356	5489	NCEI	2004-2009
WY	CHEYENNE 7.5 ENE	69-2404	DLY	41.1592	-104.6742	6024	NCEI	2004-2022
WY	CARPENTER 3.9 NNE	69-2446	DLY	41.1015	-104.3212	5426	NCEI	2007-2023
WY	CHEYENNE 5.0 W	69-2470	DLY	41.1575	-104.8840	6195	NCEI	2009-2023
WY	LUSK 0.6 S	69-2548	DLY	42.7533	-104.4512	5016	NCEI	2004-2023
WY	POWELL 3.9 ENE	69-2610	DLY	44.7825	-108.6879	4288	NCEI	2006-2023
WY	CODY 0.8 E	69-2621	DLY	44.5193	-109.0384	5070	NCEI	2011-2019
WY	CODY 1.0 SW	69-2625	DLY	44.5099	-109.0691	5139	NCEI	2015-2023
WY	SHERIDAN 13.8 NNE	69-2666	DLY	44.9769	-106.8475	3547	NCEI	2007-2023
WY	MOOSE .4 S	69-2718	DLY	43.6528	-110.7105	6496	NCEI	2004-2015
MT	GARDINER 0.7 NW	69-9000	DLY	45.0375	-110.7171	5311	NCEI	2022-2023
SK	TREELON	71-0362	DLY	49.0000	-108.3833	2959	NCEI	1971-2017
ID	JEROME CNTY ARP	72-0477	HLY	42.7274	-114.4547	4022	SYNOPTIC	1999-2023
ID	CHALLIS CHALLIS ARP	72-0478	HLY	44.5230	-114.2161	5026	SYNOPTIC	1999-2023
ID	MCCALL ARP	72-0482	HLY	44.8942	-116.0998	5020	SYNOPTIC	1999-2023
ID	LOWELL	72-0483	HLY	46.1442	-115.5964	1466	SYNOPTIC	2003-2021

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	REXBURG-MADISON CNTY ARP	72-0485	HL Y	43.8317	-111.8061	4859	SYNOPTIC	1999-2023
ID	JOSLIN FLD MAGIC VALLEY REGION	72-0490	HL Y	42.4785	-114.4774	4163	SYNOPTIC	1999-2023
MT	BAKER, BAKER MUNC ARP	72-1518	HL Y	46.3478	-104.2575	2969	SYNOPTIC	1999-2023
MT	DILLON, DILLON ARP	72-1523	HL Y	45.2575	-112.5544	5239	SYNOPTIC	1999-2023
MT	GLASGOW, GLASGOW INTL ARP	72-1526	HL Y	48.2139	-106.6214	2293	SYNOPTIC	1998-2023
MT	GREAT FALLS INTL ARP	72-1527	HL Y	47.4733	-111.3822	3675	SYNOPTIC	1999-2023
MT	LIVINGSTON, MISSION FLD ARP	72-1531	HL Y	45.6994	-110.4483	4656	SYNOPTIC	1999-2023
MT	MULLAN PASS, MULLAN PASS VOR	72-1533	HL Y	47.4542	-115.6697	6001	SYNOPTIC	1999-2023
MT	WOLF POINT, CLAYTON ARP	72-1536	HL Y	48.0944	-105.5772	1985	SYNOPTIC	1998-2023
MT	DARBY	72-2284	HL Y	46.0263	-114.1763	3880	SYNOPTIC	2016-2020
MT	HAUGAN 1 W	72-2314	HL Y	47.3889	-115.4225	3160	SYNOPTIC	2016-2021
MT	AUGUSTA	72-2547	HL Y	47.4926	-112.3970	4070	SYNOPTIC	2019-2021
WY	BIG PINEY MARBLETON ARP	72-3867	HL Y	42.5780	-110.1097	6946	SYNOPTIC	1999-2023
WY	BUFFALO JOHNSON CNTY ARP	72-3868	HL Y	44.3812	-106.7195	4925	SYNOPTIC	1999-2023
WY	DOUGLASNVERSE CNTY ARP	72-3872	HL Y	42.7942	-105.3819	4928	SYNOPTIC	1999-2023
WY	GILLETTE-CAMPBELL CNTY ARP	72-3874	HL Y	44.3394	-105.5419	4364	SYNOPTIC	1998-2023
WY	RIVERTON REGIONAL ARP	72-3879	HL Y	43.0622	-108.4470	5443	SYNOPTIC	1998-2023
WY	TORRINGTON MUNC ARP	72-3906	HL Y	42.0613	-104.1584	4199	SYNOPTIC	2000-2023
WY	MOUNTAIN VIEW	72-4574	HL Y	41.2659	-110.3375	6800	SYNOPTIC	2016-2021
ID	ARCO	76-0029	HL Y	43.6231	-113.3872	5380	RAWS	1986-2021
ID	BONNERS FERRY	76-0033	HL Y	48.6756	-116.3361	1760	RAWS	2002-2021
ID	BRACE FLAT	76-0035	HL Y	42.3497	-116.6900	4900	RAWS	1990-2021
ID	BULL SPRING	76-0036	HL Y	42.0800	-114.4847	5700	RAWS	1990-2021
ID	CHALLIS	76-0041	HL Y	44.5042	-114.2228	5250	RAWS	1997-2021
ID	CRYSTAL	76-0049	HL Y	42.9900	-113.1600	5064	RAWS	1985-2021
ID	DENT	76-0052	HL Y	46.6232	-116.2207	1655	RAWS	1998-2021
ID	BULL CANYON	76-0053	HL Y	42.3653	-112.7056	6400	RAWS	1990-2021
ID	DEER HAVEN	76-0054	HL Y	43.1744	-115.1517	5550	RAWS	1990-2021

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	FENN	76-0060	HL Y	46.1017	-115.5471	1557	RAWS	1996-2021
ID	FISH HOOK	76-0061	HL Y	47.1352	-115.8766	4270	RAWS	1985-2021
ID	FLINT CREEK	76-0063	HL Y	42.0689	-112.1906	5200	RAWS	1985-2021
ID	GAS CAVES	76-0065	HL Y	44.1678	-111.7792	5740	RAWS	1988-2021
ID	GOOSE CREEK	76-0067	HL Y	42.0950	-113.8958	5660	RAWS	1990-2021
ID	GRACE	76-0068	HL Y	42.5372	-111.8547	6210	RAWS	1986-2021
ID	INDIANOLA	76-0076	HL Y	45.4007	-114.1634	3500	RAWS	1987-2021
ID	ISLAND PARK	76-0077	HL Y	44.4167	-111.3833	6284	RAWS	1999-2021
ID	LITTLE CREEK	76-0084	HL Y	44.7228	-114.9964	4620	RAWS	1985-2021
ID	LEADORE CREEK	76-0085	HL Y	44.7000	-113.3500	6000	RAWS	1987-2021
ID	POLE CREEK	76-0108	HL Y	42.0694	-115.7861	5660	RAWS	1990-2021
ID	PITTSBURG LANDING	76-0113	HL Y	45.6375	-116.4686	1357	RAWS	1993-2021
ID	POTTER BUTTE	76-0114	HL Y	43.2261	-113.5744	4930	RAWS	1990-2021
ID	RAFT RIVER	76-0120	HL Y	42.5478	-113.2594	4400	RAWS	1986-2021
ID	ROCK LAKE	76-0123	HL Y	42.9717	-114.0631	4260	RAWS	1990-2021
ID	SALMON	76-0128	HL Y	45.1500	-113.9333	4960	RAWS	1985-2021
ID	SNAKE RIVER	76-0144	HL Y	45.0997	-116.7369	4100	RAWS	1985-2024
ID	STANLEY	76-0147	HL Y	44.1692	-114.9258	6570	RAWS	2002-2021
ID	TAYLOR RANCH	76-0149	HL Y	45.1019	-114.8517	3949	RAWS	2008-2016
ID	TEA POT	76-0150	HL Y	44.9044	-115.7375	5152	RAWS	1986-2021
ID	TRAIL GULCH	76-0153	HL Y	42.3161	-114.3031	6000	RAWS	1985-2021
ID	WEISER RIVER	76-0157	HL Y	44.8475	-116.4267	3835	RAWS	1985-2021
MT	ARMELLS CREEK	76-0163	HL Y	47.5867	-108.8694	2845	RAWS	1991-2021
MT	BADGER PEAK	76-0167	HL Y	45.6481	-106.5008	4340	RAWS	1986-2021
MT	BIGHORN MOUNTAIN	76-0173	HL Y	45.0733	-107.8887	8180	RAWS	1991-2021
MT	BLUFF CREEK	76-0175	HL Y	48.8719	-106.9456	2550	RAWS	1985-2021
MT	BRADSHAW CREEK	76-0177	HL Y	45.0553	-105.9483	3930	RAWS	1991-2021
MT	BROWNING BFA	76-0180	HL Y	48.5617	-113.0133	4384	RAWS	2003-2021

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	BIG SHEEP MOUNTAIN	76-0182	HL Y	47.0167	-105.8167	3200	RAWS	1985-2021
MT	CANNONBALL CREEK	76-0186	HL Y	46.4847	-104.0658	2930	RAWS	1987-2021
MT	CABINET (TROUT CREEK)	76-0187	HL Y	47.8667	-115.6250	2350	RAWS	2001-2021
MT	CHAIN BUTTES	76-0188	HL Y	47.5167	-108.0333	2928	RAWS	1985-2014
MT	DRY BLOOD CREEK	76-0203	HL Y	47.2442	-108.3575	3000	RAWS	1997-2021
MT	EUREKA	76-0209	HL Y	48.9000	-115.0167	2800	RAWS	2001-2021
MT	FISHTAIL	76-0213	HL Y	45.4581	-109.5714	4550	RAWS	1992-2021
MT	FORT HOWES	76-0215	HL Y	45.2969	-106.1614	3380	RAWS	1987-2021
MT	FORT BELKNAP	76-0216	HL Y	48.3042	-108.7189	2665	RAWS	1992-2021
MT	GINGER	76-0222	HL Y	46.3292	-111.5881	4370	RAWS	1991-2021
MT	GLEASON	76-0224	HL Y	47.8678	-112.6681	5200	RAWS	2003-2024
MT	HEBGEN LAKE	76-0230	HL Y	44.6678	-111.1006	6667	RAWS	2001-2021
MT	HOT SPRINGS	76-0235	HL Y	47.6156	-114.6694	2960	RAWS	1991-2021
MT	JETTE	76-0239	HL Y	47.7669	-114.2347	3600	RAWS	1992-2021
MT	KING COULEE	76-0243	HL Y	47.7981	-107.0233	2760	RAWS	1987-2021
MT	KNOWLTON	76-0244	HL Y	46.3117	-105.0222	3320	RAWS	1985-2021
MT	LIBBY	76-0245	HL Y	48.3833	-115.5667	2070	RAWS	2001-2021
MT	LITTLE BIGHORN	76-0247	HL Y	45.5697	-107.4358	3400	RAWS	1997-2021
MT	LITTLE SNOWY	76-0248	HL Y	46.7511	-109.0233	4975	RAWS	2000-2021
MT	LITTLE BULLWACKER CREEK	76-0249	HL Y	47.8314	-109.0083	3100	RAWS	1985-2021
MT	LINCOLN	76-0250	HL Y	46.9681	-112.6353	4597	RAWS	2000-2021
MT	MANNING CORRAL DOGTOWN	76-0253	HL Y	47.7028	-108.4786	3080	RAWS	1997-2021
MT	MISSOULA FTS	76-0255	HL Y	46.8500	-114.0500	3200	RAWS	2001-2021
MT	NINE MILE	76-0257	HL Y	47.0708	-114.4022	3300	RAWS	2000-2021
MT	PHILIPSBURG	76-0263	HL Y	46.3167	-113.3000	5280	RAWS	2001-2021
MT	PINE HILL	76-0264	HL Y	46.7769	-104.5797	2649	RAWS	1999-2021
MT	PLAINS	76-0266	HL Y	47.4661	-114.8794	2400	RAWS	2002-2021
MT	POLEBRIDGE	76-0268	HL Y	48.7825	-114.2803	3500	RAWS	2003-2021

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	POPLAR	76-0270	HL Y	48.1269	-105.0731	2423	RAWS	1992-2021
MT	PRYOR MOUNTAIN	76-0275	HL Y	45.3375	-108.4908	6186	RAWS	1991-2024
MT	ROCKY BOY	76-0277	HL Y	48.2550	-109.7836	3800	RAWS	1992-2024
MT	SOUTH BRIDGER	76-0280	HL Y	45.1994	-108.7919	4725	RAWS	1987-2006
MT	SHENANGO	76-0291	HL Y	45.4596	-111.2445	5370	RAWS	2001-2021
MT	SOUTH SAWMILL CREEK	76-0292	HL Y	47.5619	-107.5286	3290	RAWS	1985-2021
MT	STEVI	76-0294	HL Y	46.5131	-114.0911	3365	RAWS	2000-2021
MT	ST. MARY	76-0297	HL Y	48.7375	-113.4306	4560	RAWS	1986-2021
MT	ST. REGIS	76-0298	HL Y	47.3108	-115.1097	2680	RAWS	2001-2021
MT	STILLWATER	76-0299	HL Y	48.5394	-114.5594	3116	RAWS	2002-2021
MT	SULA	76-0300	HL Y	45.8175	-113.9528	4570	RAWS	2004-2021
MT	THOMPSON FALLS AP	76-0302	HL Y	47.5806	-115.2850	2460	RAWS	2001-2024
MT	TROY	76-0305	HL Y	48.4779	-115.9049	1950	RAWS	2001-2021
MT	WEST FORK	76-0307	HL Y	45.8156	-114.2585	4420	RAWS	2000-2021
MT	WEST GLACIER	76-0308	HL Y	48.5106	-113.9942	3200	RAWS	2001-2021
MT	WHITEHALL	76-0310	HL Y	45.8833	-112.1500	4360	RAWS	2001-2021
MT	WOLF MOUNTAIN	76-0316	HL Y	45.3131	-107.1719	5217	RAWS	1985-2024
MT	WHITE SULPHUR SPRING	76-0317	HL Y	46.5344	-110.8853	5060	RAWS	2001-2021
MT	ZORTMAN MINE	76-0323	HL Y	47.9225	-108.5528	4660	RAWS	1987-2016
WY	BEAR LODGE	76-0436	HL Y	44.5972	-104.4275	5280	RAWS	1985-2021
WY	DODGE CREEK	76-0449	HL Y	41.9675	-105.5194	7100	RAWS	1988-2021
WY	ESTERBROOK	76-0455	HL Y	42.4153	-105.3611	6530	RAWS	1988-2021
WY	HALF MOON	76-0463	HL Y	42.9147	-109.7472	8530	RAWS	1997-2021
WY	HOBACK	76-0465	HL Y	43.2203	-110.4231	6726	RAWS	1996-2021
WY	MUDDY CREEK	76-0473	HL Y	41.4000	-110.5528	6970	RAWS	1988-2021
WY	POKER CREEK	76-0476	HL Y	43.5614	-106.9669	6440	RAWS	1992-2021
WY	ROCHELLE HILLS	76-0483	HL Y	43.5506	-105.0922	5199	RAWS	1992-2021
WY	SNIDER BASIN	76-0493	HL Y	42.4908	-110.5267	8200	RAWS	1985-2021

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	SNOW SPRINGS CREEK	76-0494	HL Y	41.4175	-109.0361	7550	RAWS	1988-2021
WY	SPLIT ROCK CREEK	76-0496	HL Y	43.5606	-107.3975	6000	RAWS	1988-2021
MT	BILLINGS INTL AP	78-0004	15M	45.8069	-108.5422	3581	NCEI	2000-2021
MT	BUTTE BERT MOONEY AP	78-0008	15M	45.9647	-112.5006	5506	NCEI	2005-2021
MT	BOZEMAN GALLATIN FLD AP	78-0011	15M	45.7880	-111.1608	4427	NCEI	2005-2021
MT	CUT BANK AP	78-0015	15M	48.6033	-112.3752	3838	NCEI	2005-2021
WY	CHEYENNE WSFO AP	78-0017	15M	41.1578	-104.8069	6113	NCEI	2000-2021
MT	DILLON AP	78-0020	15M	45.2575	-112.5544	5200	NCEI	2005-2021
MT	GREAT FALLS AP	78-0028	15M	47.4733	-111.3822	3664	NCEI	2000-2021
MT	HELENA AP ASOS	78-0029	15M	46.6056	-111.9636	3828	NCEI	2000-2021
MT	HAVRE AP ASOS	78-0030	15M	48.5428	-109.7633	2585	NCEI	2000-2021
ID	IDAHO FALLS FAA AP	78-0031	15M	43.5190	-112.0639	4733	NCEI	2005-2021
WY	LARAMIE AP	78-0034	15M	41.3167	-105.6833	7266	NCEI	2005-2021
MT	LIVINGSTON AP	78-0038	15M	45.6983	-110.4408	4643	NCEI	2005-2021
ID	LEWISTON AP	78-0039	15M	46.3747	-117.0156	1442	NCEI	2000-2021
MT	LEWISTOWN AP	78-0040	15M	47.0492	-109.4578	4145	NCEI	2005-2021
WY	ROCK SPRINGS AP	78-0053	15M	41.5947	-109.0530	6742	NCEI	2005-2021
WY	RAWLINS AP	78-0054	15M	41.8000	-107.2000	6736	NCEI	2005-2021
WY	TORRINGTON MUNI AP	78-0060	15M	42.0613	-104.1584	4199	NCEI	2005-2021
WY	WORLAND	78-0063	15M	43.9658	-107.9508	4172	NCEI	2005-2021
ID	LOWELL THREE RIVERS	79-0002	DLY	46.1442	-115.5964	1480	NCEI	1998-2023
ID	JEROME CO AP	79-0003	DLY	42.7267	-114.4564	4048	NCEI	1998-2023
ID	CHALLIS AP	79-0006	DLY	44.5228	-114.2150	5033	NCEI	1998-2023
ID	ARCO 17 SW	79-0007	DLY	43.4622	-113.5561	5920	NCEI	2003-2023
MT	LEWISTOWN 42 WSW	79-0014	DLY	46.8847	-110.2894	5070	NCEI	2008-2023
WY	CHEYENNE	79-0018	DLY	41.1519	-104.8061	6128	NCEI	1914-2023
WY	DOUGLAS CAA AP	79-0019	DLY	42.7500	-105.3667	4879	NCEI	1947-1995
WY	LANDER HUNT FLD AP	79-0020	DLY	42.8153	-108.7261	5592	NCEI	1947-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	LARAMIE RGNL AP	79-0021	DLY	41.3119	-105.6747	7266	NCEI	1947-2023
WY	ROCK SPRINGS AP	79-0022	DLY	41.5944	-109.0528	6741	NCEI	1947-2023
WY	SHERIDAN CO AP	79-0024	DLY	44.7694	-106.9689	3945	NCEI	1947-2023
MT	BILLINGS LOGAN INTL AP	79-0026	DLY	45.8069	-108.5422	3581	NCEI	1947-2023
MT	HAVRE WB CITY	79-0027	DLY	48.5526	-109.6794	2493	NCEI	1879-1961
MT	LEWISTOWN MUNI AP	79-0028	DLY	47.0492	-109.4578	4145	NCEI	1895-2023
MT	MILES CITY F WILEY FLD	79-0029	DLY	46.4267	-105.8825	2624	NCEI	1936-2023
MT	CUSTER	79-0030	DLY	46.1333	-107.5333	2743	NCEI	1940-1975
WY	RAWLINS MUNI AP	79-0033	DLY	41.8056	-107.1997	6736	NCEI	1951-2023
WY	RIVERTON	79-0034	DLY	43.0661	-108.4767	5568	NCEI	1998-2023
WY	WORLAND	79-0035	DLY	43.9658	-107.9508	4172	NCEI	1960-2023
WY	MOORCROFT 3S	79-0036	DLY	44.2169	-104.9292	4325	NCEI	1903-2012
WY	CASPER NATRONA CO AP	79-0037	DLY	42.8975	-106.4636	5338	NCEI	1948-2023
MT	MALMSTROM AFB	79-0040	DLY	47.5167	-111.1833	3472	NCEI	1948-2023
ID	BOISE AIR TERMINAL	79-0048	DLY	43.5667	-116.2406	2814	NCEI	1939-2023
MT	BOZEMAN GALLATIN FLD	79-0049	DLY	45.7881	-111.1608	4427	NCEI	1940-2023
ID	BURLEY MUNI AP	79-0050	DLY	42.5417	-113.7661	4142	NCEI	1948-2023
MT	BUTTE BERT MOONEY AP	79-0051	DLY	45.9647	-112.5006	5506	NCEI	1894-2023
MT	CUT BANK MUNI AP	79-0053	DLY	48.6033	-112.3753	3838	NCEI	1903-2023
MT	DILLON AP	79-0054	DLY	45.2575	-112.5545	5200	NCEI	1939-2023
MT	DRUMMOND AVIATION	79-0055	DLY	46.6383	-113.1761	4000	NCEI	1927-2012
ID	GOODING 2 S	79-0057	DLY	42.9167	-114.7167	3570	NCEI	1909-1997
MT	GREAT FALLS INTL AP	79-0058	DLY	47.4733	-111.3822	3664	NCEI	1937-2023
MT	HELENA RGNL AP	79-0059	DLY	46.6056	-111.9636	3828	NCEI	1938-2023
ID	IDAHO FALLS FANNING FLD	79-0060	DLY	43.5164	-112.0672	4729	NCEI	1948-2023
ID	LEWISTON NEZ PERCE CO AP	79-0062	DLY	46.3747	-117.0156	1436	NCEI	1947-2023
MT	LIVINGSTON MISSION FLD	79-0063	DLY	45.6983	-110.4408	4643	NCEI	1948-2023
ID	MALAD CITY	79-0064	DLY	42.1492	-112.2872	4470	NCEI	1948-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	MISSOULA INTL AP	79-0065	DLY	46.9208	-114.0925	3192	NCEI	1947-2023
ID	MULLAN PASS VOR/DME	79-0066	DLY	47.4569	-115.6450	6028	NCEI	1938-2023
ID	POCATELLO RGNL AP	79-0067	DLY	42.9203	-112.5711	4478	NCEI	1938-2023
ID	STREVELL	79-0069	DLY	42.0167	-113.2500	5280	NCEI	1948-1986
MT	SUPERIOR	79-0070	DLY	47.1928	-114.8903	2710	NCEI	1913-2018
MT	WHITEHALL 7 E	79-0071	DLY	45.8667	-111.9667	4278	NCEI	1948-1959
WY	BIG PINEY MARBLETON AP	79-0073	DLY	42.5844	-110.1075	6970	NCEI	1998-2023
MT	GLASGOW INTL AP	79-0077	DLY	48.2138	-106.6213	2285	NCEI	1947-2023
MT	ST MARIE	79-0078	DLY	48.4089	-106.5144	2756	NCEI	1959-2023
MT	HAVRE CITY CO AP	79-0079	DLY	48.5428	-109.7633	2585	NCEI	1960-2023
MT	WOLF POINT INTL AP	79-0081	DLY	48.0944	-105.5744	1986	NCEI	1998-2023
WY	GILLETTE CAMPBELL AP	79-0082	DLY	44.3394	-105.5419	4354	NCEI	1998-2023
MT	JORDAN AP	79-0087	DLY	47.3258	-106.9475	2662	NCEI	1998-2023
WY	TORRINGTON MUNI AP	79-0088	DLY	42.0647	-104.1528	4205	NCEI	1998-2023
WY	BUFFALO JOHNSON CO AP	79-0089	DLY	44.3814	-106.7211	4967	NCEI	1998-2023
MT	BAKER MUNI AP	79-0090	DLY	46.3583	-104.2500	2971	NCEI	1998-2023
WY	DOUGLAS CONVERSE CO AP	79-0091	DLY	42.7972	-105.3856	4929	NCEI	1999-2023
MT	HELENA WB CITY	79-0105	DLY	46.5833	-112.0333	4144	NCEI	1892-1955
ID	IDAHO FALLS 46 W	79-0110	DLY	43.5317	-112.9422	4938	NCEI	1954-2023
ID	MULLAN PASS	79-0112	DLY	47.4667	-115.7667	3586	NCEI	1957-1971
ID	TWIN FALLS SUN VLY RGNL AP	79-0115	DLY	42.4819	-114.4869	4151	NCEI	1998-2023
ID	REXBURG MADISON CO AP	79-0117	DLY	43.8339	-111.8045	4858	NCEI	1998-2023
MT	NORTHEAST ENTRANCE	80-0116	DLY	45.0100	-110.0100	7350	NCEI	1978-2023
WY	SNAKE RIVER STATION	80-0129	DLY	44.1300	-110.6700	6920	NCEI	1989-2023
MT	WEST YELLOWSTONE	80-0179	DLY	44.6600	-111.0900	6700	NCEI	1998-2023
ID	ISLAND PARK	80-0180	DLY	44.4200	-111.3900	6290	NCEI	1981-2023
ID	PIERCE R.S.	80-0320	DLY	46.4900	-115.8000	3080	NCEI	2009-2023
ID	PRAIRIE	80-0335	DLY	43.5100	-115.5700	4800	NCEI	1981-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	LITTLE SALMON CREEK	81-0001	HL Y	43.2968	-116.8280	5167	RCEW	1962-2019
ID	LITTLE SALMON CREEK	81-0001	DLY	43.2968	-116.8280	5167	RCEW	1962-2019
ID	UPPER SALMON CREEK NEAR SALMON	81-0002	HL Y	43.2669	-116.8499	5886	RCEW	1968-2019
ID	UPPER SALMON CREEK NEAR SALMON	81-0002	DLY	43.2669	-116.8499	5886	RCEW	1968-2019
ID	SUMMIT RAINGAGE SITE	81-0004	HL Y	43.2471	-116.7071	4206	RCEW	1965-2019
ID	SUMMIT RAINGAGE SITE	81-0004	DLY	43.2471	-116.7071	4206	RCEW	1965-2019
ID	FLATS WEIR AND RAINGAGES AND M	81-0005	HL Y	43.2286	-116.7375	3885	RCEW	1962-2019
ID	FLATS WEIR AND RAINGAGES AND M	81-0005	DLY	43.2286	-116.7375	3885	RCEW	1962-2019
ID	REYNOLDS QUONSET	81-0006	HL Y	43.2051	-116.7503	3937	RCEW	1962-2019
ID	REYNOLDS QUONSET	81-0006	DLY	43.2051	-116.7503	3937	RCEW	1962-2019
ID	METEOROLOGY AND RAINGAGE SITE	81-0007	HL Y	43.1785	-116.7910	5030	RCEW	1962-2019
ID	METEOROLOGY AND RAINGAGE SITE	81-0007	DLY	43.1785	-116.7910	5030	RCEW	1962-2019
ID	NANCY GULCH METEOROLOGY AND RA	81-0008	DLY	43.1688	-116.7137	4639	RCEW	1972-2019
ID	NANCY GULCH METEOROLOGY AND RA	81-0008	HL Y	43.1688	-116.7137	4639	RCEW	1972-2019
ID	RAINGAGE SITE NEAR TOLLGATE WE	81-0009	HL Y	43.1414	-116.7672	4790	RCEW	1962-2019
ID	RAINGAGE SITE NEAR TOLLGATE WE	81-0009	DLY	43.1414	-116.7672	4790	RCEW	1962-2019
ID	METEOROLOGY AND RAINGAGE SITE	81-0010	HL Y	43.1286	-116.7966	5833	RCEW	2006-2019
ID	METEOROLOGY AND RAINGAGE SITE	81-0010	DLY	43.1286	-116.7966	5833	RCEW	2006-2019
ID	METEOROLOGY AND RAINGAGE SITE	81-0011	HL Y	43.1292	-116.7994	5919	RCEW	1962-2014
ID	METEOROLOGY AND RAINGAGE SITE	81-0011	DLY	43.1292	-116.7994	5919	RCEW	1962-2014
ID	LOWER SHEEP CREEK	81-0013	DLY	43.1400	-116.7336	5410	RCEW	1962-2019
ID	LOWER SHEEP CREEK	81-0013	HL Y	43.1400	-116.7336	5410	RCEW	1962-2019
ID	UPPER SHEEP CREEK WEATHER SIT	81-0014	HL Y	43.1221	-116.7232	6132	RCEW	1983-2019
ID	UPPER SHEEP CREEK WEATHER SIT	81-0014	DLY	43.1221	-116.7232	6132	RCEW	1983-2019
ID	CHRISTMAS MEADOWS METEOROLOGY	81-0017	DLY	43.1023	-116.8050	5951	RCEW	1962-2019
ID	CHRISTMAS MEADOWS METEOROLOGY	81-0017	HL Y	43.1023	-116.8050	5951	RCEW	1962-2019
ID	BREAKS METEOROLOGY AND RAINGA	81-0018	DLY	43.1068	-116.7739	5200	RCEW	1965-2019
ID	BREAKS METEOROLOGY AND RAINGA	81-0018	HL Y	43.1068	-116.7739	5200	RCEW	1965-2019

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	RAINGAGE SITE ON DIVIDE BETWEE	81-0019	HL Y	43.1052	-116.7387	6142	RCEW	1962-2019
ID	RAINGAGE SITE ON DIVIDE BETWEE	81-0019	DLY	43.1052	-116.7387	6142	RCEW	1962-2019
ID	RAINGAGE SITE NEAR DEMOCRAT HI	81-0020	HL Y	43.0961	-116.7745	5426	RCEW	1962-2019
ID	RAINGAGE SITE NEAR DEMOCRAT HI	81-0020	DLY	43.0961	-116.7745	5426	RCEW	1962-2019
ID	METEOROLOGY AND RAINGAGE SITE	81-0021	DLY	43.0792	-116.8273	7116	RCEW	1962-2019
ID	METEOROLOGY AND RAINGAGE SITE	81-0021	HL Y	43.0792	-116.8273	7116	RCEW	1962-2019
ID	BULL MEADOW METEOROLOGY AND RA	81-0023	HL Y	43.0822	-116.7356	6568	RCEW	1962-2019
ID	BULL MEADOW METEOROLOGY AND RA	81-0023	DLY	43.0822	-116.7356	6568	RCEW	1962-2019
ID	HEADWATERS OF WEST FORK REYNOL	81-0024	HL Y	43.0665	-116.7945	6804	RCEW	1962-2019
ID	HEADWATERS OF WEST FORK REYNOL	81-0024	DLY	43.0665	-116.7945	6804	RCEW	1962-2019
ID	ATLANTA SUMMIT	86-0306	DLY	43.7569	-115.2391	7580	SNOTEL	1979-2023
ID	ATLANTA SUMMIT	86-0306	HL Y	43.7569	-115.2391	7580	SNOTEL	1978-2022
MT	BADGER PASS	86-0307	DLY	48.1309	-113.0232	6900	SNOTEL	1979-2023
MT	BADGER PASS	86-0307	HL Y	48.1309	-113.0232	6900	SNOTEL	1979-2022
WY	BALD MTN.	86-0309	HL Y	44.8007	-107.8444	9380	SNOTEL	1978-2022
WY	BALD MTN.	86-0309	DLY	44.8007	-107.8444	9380	SNOTEL	1978-2023
MT	BANFIELD MOUNTAIN	86-0311	HL Y	48.5712	-115.4457	5600	SNOTEL	1987-2022
MT	BANFIELD MOUNTAIN	86-0311	DLY	48.5712	-115.4457	5600	SNOTEL	1987-2023
ID	BANNER SUMMIT	86-0312	DLY	44.3034	-115.2345	7040	SNOTEL	1980-2023
ID	BANNER SUMMIT	86-0312	HL Y	44.3034	-115.2345	7040	SNOTEL	1980-2022
MT	BARKER LAKES	86-0313	DLY	46.0971	-113.1304	8250	SNOTEL	1980-2023
MT	BARKER LAKES	86-0313	HL Y	46.0971	-113.1304	8250	SNOTEL	1980-2022
WY	BASE CAMP	86-0314	DLY	43.9402	-110.4454	7060	SNOTEL	1980-2023
WY	BASE CAMP	86-0314	HL Y	43.9402	-110.4454	7060	SNOTEL	1980-2022
MT	BASIN CREEK	86-0315	DLY	45.7974	-112.5205	7180	SNOTEL	1980-2023
MT	BASIN CREEK	86-0315	HL Y	45.7974	-112.5205	7180	SNOTEL	1980-2022
WY	BATTLE MOUNTAIN	86-0317	HL Y	41.0541	-107.2661	7440	SNOTEL	1985-2022
WY	BATTLE MOUNTAIN	86-0317	DLY	41.0541	-107.2661	7440	SNOTEL	1985-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	BEAGLE SPRINGS	86-0318	HL Y	44.4715	-112.9819	8850	SNOTEL	1978-2022
MT	BEAGLE SPRINGS	86-0318	DLY	44.4715	-112.9819	8850	SNOTEL	1978-2023
ID	BEAR BASIN	86-0319	DLY	44.9522	-116.1429	5350	SNOTEL	1981-2023
ID	BEAR BASIN	86-0319	HL Y	44.9522	-116.1429	5350	SNOTEL	1980-2022
ID	BEAR CANYON	86-0320	HL Y	43.7437	-113.9380	7900	SNOTEL	1980-2022
ID	BEAR CANYON	86-0320	DLY	43.7437	-113.9380	7900	SNOTEL	1981-2023
ID	BEAR MOUNTAIN	86-0323	DLY	48.3058	-116.0745	5400	SNOTEL	1981-2023
ID	BEAR MOUNTAIN	86-0323	HL Y	48.3058	-116.0745	5400	SNOTEL	1981-2022
ID	BEAR SADDLE	86-0324	HL Y	44.6053	-116.9810	6180	SNOTEL	1980-2022
ID	BEAR SADDLE	86-0324	DLY	44.6053	-116.9810	6180	SNOTEL	1981-2023
WY	BEAR TRAP MEADOW	86-0325	HL Y	43.8874	-107.0613	8200	SNOTEL	1980-2022
WY	BEAR TRAP MEADOW	86-0325	DLY	43.8874	-107.0613	8200	SNOTEL	1980-2023
WY	BEARTOOTH LAKE	86-0326	DLY	44.9431	-109.5674	9360	SNOTEL	1980-2023
WY	BEARTOOTH LAKE	86-0326	HL Y	44.9431	-109.5674	9360	SNOTEL	1980-2022
MT	BEAVER CREEK	86-0328	DLY	44.9497	-111.3585	7850	SNOTEL	1985-2023
MT	BEAVER CREEK	86-0328	HL Y	44.9497	-111.3585	7850	SNOTEL	1985-2022
ID	BIG CREEK SUMMIT	86-0338	HL Y	44.6262	-115.7956	6560	SNOTEL	1980-2022
ID	BIG CREEK SUMMIT	86-0338	DLY	44.6262	-115.7956	6560	SNOTEL	1981-2023
WY	BIG SANDY OPENING	86-0342	HL Y	42.6458	-109.2597	9080	SNOTEL	1978-2022
WY	BIG SANDY OPENING	86-0342	DLY	42.6458	-109.2597	9080	SNOTEL	1979-2023
MT	BISSEON CREEK	86-0346	HL Y	47.6839	-113.9990	4920	SNOTEL	1992-2022
MT	BISSEON CREEK	86-0346	DLY	47.6839	-113.9990	4920	SNOTEL	1992-2023
MT	BLACK BEAR	86-0347	HL Y	44.5083	-111.1280	8170	SNOTEL	1978-2022
MT	BLACK BEAR	86-0347	DLY	44.5083	-111.1280	8170	SNOTEL	1978-2023
MT	BLACK PINE	86-0349	HL Y	46.4140	-113.4309	7210	SNOTEL	1978-2022
MT	BLACK PINE	86-0349	DLY	46.4140	-113.4309	7210	SNOTEL	1978-2023
WY	BLACKWATER	86-0350	DLY	44.3767	-109.7933	9780	SNOTEL	1980-2023
WY	BLACKWATER	86-0350	HL Y	44.3767	-109.7933	9780	SNOTEL	1981-2022

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	BLIND BULL SUM	86-0353	HL Y	42.9640	-110.6097	8650	SNOTEL	1978-2022
WY	BLIND BULL SUM	86-0353	DLY	42.9640	-110.6097	8650	SNOTEL	1979-2023
MT	BLOODY DICK	86-0355	HL Y	45.1651	-113.5010	7600	SNOTEL	1979-2022
MT	BLOODY DICK	86-0355	DLY	45.1651	-113.5010	7600	SNOTEL	1979-2023
WY	BONE SPRINGS DIV	86-0358	DLY	44.6789	-107.5811	9350	SNOTEL	1978-2023
WY	BONE SPRINGS DIV	86-0358	HL Y	44.6789	-107.5811	9350	SNOTEL	1978-2022
ID	BOSTETTER R.S.	86-0359	DLY	42.1644	-114.1927	7500	SNOTEL	1981-2023
ID	BOSTETTER R.S.	86-0359	HL Y	42.1644	-114.1927	7500	SNOTEL	1981-2022
MT	BOULDER MOUNTAIN	86-0360	HL Y	46.5596	-111.2897	7950	SNOTEL	1978-2022
MT	BOULDER MOUNTAIN	86-0360	DLY	46.5596	-111.2897	7950	SNOTEL	1978-2023
MT	BOX CANYON	86-0363	HL Y	45.2719	-110.2490	6670	SNOTEL	1978-2022
MT	BOX CANYON	86-0363	DLY	45.2719	-110.2490	6670	SNOTEL	1978-2023
MT	BRACKETT CREEK	86-0365	HL Y	45.8911	-110.9385	7320	SNOTEL	1994-2022
MT	BRACKETT CREEK	86-0365	DLY	45.8911	-110.9385	7320	SNOTEL	1994-2023
WY	BROOKLYN LAKE	86-0367	HL Y	41.3588	-106.2321	10240	SNOTEL	1980-2022
WY	BROOKLYN LAKE	86-0367	DLY	41.3588	-106.2321	10240	SNOTEL	1980-2023
ID	BRUNDAGE RESERVOIR	86-0370	DLY	45.0432	-116.1325	6250	SNOTEL	1986-2023
ID	BRUNDAGE RESERVOIR	86-0370	HL Y	45.0432	-116.1325	6250	SNOTEL	1986-2022
WY	BURGESS JUNCTION	86-0377	DLY	44.7877	-107.5292	7880	SNOTEL	1980-2023
WY	BURGESS JUNCTION	86-0377	HL Y	44.7877	-107.5292	7880	SNOTEL	1980-2022
WY	BURROUGHS CREEK	86-0379	DLY	43.6973	-109.6702	8750	SNOTEL	1978-2023
WY	BURROUGHS CREEK	86-0379	HL Y	43.6973	-109.6702	8750	SNOTEL	1978-2022
MT	CALVERT CREEK	86-0381	DLY	45.8838	-113.3255	6430	SNOTEL	1979-2023
MT	CALVERT CREEK	86-0381	HL Y	45.8838	-113.3255	6430	SNOTEL	1979-2022
ID	CAMAS CREEK DIVIDE	86-0382	DLY	43.2655	-115.3453	5710	SNOTEL	1992-2023
ID	CAMAS CREEK DIVIDE	86-0382	HL Y	43.2655	-115.3453	5710	SNOTEL	1992-2022
WY	CANYON	86-0384	DLY	44.7196	-110.5108	7870	SNOTEL	1980-2023
WY	CANYON	86-0384	HL Y	44.7196	-110.5108	7870	SNOTEL	1980-2022

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	CARROT BASIN	86-0385	DLY	44.9619	-111.2940	9000	SNOTEL	1982-2023
MT	CARROT BASIN	86-0385	HLY	44.9619	-111.2940	9000	SNOTEL	1983-2022
WY	CASPER MTN.	86-0389	DLY	42.7339	-106.3186	7900	SNOTEL	1979-2023
WY	CASPER MTN.	86-0389	HLY	42.7339	-106.3186	7900	SNOTEL	1978-2024
WY	CLOUD PEAK RESERVOIR	86-0402	DLY	44.4034	-107.0606	9860	SNOTEL	1979-2023
WY	CLOUD PEAK RESERVOIR	86-0402	HLY	44.4034	-107.0606	9860	SNOTEL	1979-2022
MT	CLOVER MEADOW	86-0403	DLY	45.0179	-111.8456	8600	SNOTEL	1978-2023
MT	CLOVER MEADOW	86-0403	HLY	45.0179	-111.8456	8600	SNOTEL	1978-2022
WY	COLD SPRINGS	86-0405	DLY	43.2768	-109.4458	9630	SNOTEL	1983-2023
WY	COLD SPRINGS	86-0405	HLY	43.2768	-109.4458	9630	SNOTEL	1983-2022
MT	COLE CREEK	86-0407	HLY	45.1940	-109.3455	7850	SNOTEL	1978-2022
MT	COLE CREEK	86-0407	DLY	45.1940	-109.3455	7850	SNOTEL	1978-2023
MT	COMBINATION	86-0410	HLY	46.4652	-113.3936	5600	SNOTEL	1979-2022
MT	COMBINATION	86-0410	DLY	46.4652	-113.3936	5600	SNOTEL	1979-2023
ID	COOL CREEK	86-0411	HLY	46.7636	-115.2953	6280	SNOTEL	1984-2022
ID	COOL CREEK	86-0411	DLY	46.7636	-115.2953	6280	SNOTEL	1984-2023
MT	COPPER BOTTOM	86-0413	HLY	47.0568	-112.5950	5200	SNOTEL	1979-2022
MT	COPPER BOTTOM	86-0413	DLY	47.0568	-112.5950	5200	SNOTEL	1979-2023
MT	COPPER CAMP	86-0414	HLY	47.0816	-112.7296	6950	SNOTEL	1978-2022
MT	COPPER CAMP	86-0414	DLY	47.0816	-112.7296	6950	SNOTEL	1978-2023
WY	COTTONWOOD CREEK	86-0419	HLY	42.6459	-110.8148	7670	SNOTEL	1982-2022
WY	COTTONWOOD CREEK	86-0419	DLY	42.6459	-110.8148	7670	SNOTEL	1982-2023
ID	COZY COVE	86-0423	DLY	44.2885	-115.6551	5400	SNOTEL	1980-2023
ID	COZY COVE	86-0423	HLY	44.2885	-115.6551	5400	SNOTEL	1978-2022
ID	CRAB CREEK	86-0424	DLY	44.4370	-111.9938	6900	SNOTEL	1981-2023
ID	CRAB CREEK	86-0424	HLY	44.4370	-111.9938	6900	SNOTEL	1980-2022
ID	CRATER MEADOWS	86-0425	DLY	46.5639	-115.2890	5960	SNOTEL	1984-2023
ID	CRATER MEADOWS	86-0425	HLY	46.5639	-115.2890	5960	SNOTEL	1984-2022

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	CRYSTAL LAKE	86-0427	HL Y	46.7894	-109.5120	6050	SNOTEL	1978-2022
MT	CRYSTAL LAKE	86-0427	DLY	46.7894	-109.5120	6050	SNOTEL	1978-2023
MT	DALY CREEK	86-0433	HL Y	46.1837	-113.8533	5780	SNOTEL	1980-2022
MT	DALY CREEK	86-0433	DLY	46.1837	-113.8533	5780	SNOTEL	1980-2023
MT	DARKHORSE LAKE	86-0436	HL Y	45.1737	-113.5845	8945	SNOTEL	1980-2022
MT	DARKHORSE LAKE	86-0436	DLY	45.1737	-113.5845	8945	SNOTEL	1980-2023
MT	DEADMAN CREEK	86-0437	DLY	46.7928	-110.6755	6450	SNOTEL	1978-2023
MT	DEADMAN CREEK	86-0437	HL Y	46.7928	-110.6755	6450	SNOTEL	1978-2022
ID	DEADWOOD SUMMIT	86-0439	DLY	44.5451	-115.5638	6860	SNOTEL	1979-2023
ID	DEADWOOD SUMMIT	86-0439	HL Y	44.5451	-115.5638	6860	SNOTEL	1980-2022
MT	DIVIDE	86-0448	HL Y	44.7932	-112.0564	7800	SNOTEL	1978-2022
MT	DIVIDE	86-0448	DLY	44.7932	-112.0564	7800	SNOTEL	1978-2023
WY	DIVIDE PEAK	86-0449	HL Y	41.3040	-107.1524	8880	SNOTEL	1980-2022
WY	DIVIDE PEAK	86-0449	DLY	41.3040	-107.1524	8880	SNOTEL	1980-2023
ID	DOLLARHIDE SUMMIT	86-0450	DLY	43.6025	-114.6742	8420	SNOTEL	1981-2023
ID	DOLLARHIDE SUMMIT	86-0450	HL Y	43.6025	-114.6742	8420	SNOTEL	1981-2022
WY	DOME LAKE	86-0451	DLY	44.5746	-107.2954	8880	SNOTEL	1978-2023
WY	DOME LAKE	86-0451	HL Y	44.5746	-107.2954	8880	SNOTEL	1978-2022
MT	DUPUYER CREEK	86-0458	DLY	48.0634	-112.7573	5750	SNOTEL	1983-2023
MT	DUPUYER CREEK	86-0458	HL Y	48.0634	-112.7573	5750	SNOTEL	1983-2022
WY	EAST RIM DIVIDE	86-0460	DLY	43.1310	-110.2023	7930	SNOTEL	1985-2023
WY	EAST RIM DIVIDE	86-0460	HL Y	43.1310	-110.2023	7930	SNOTEL	1985-2022
ID	ELK BUTTE	86-0466	DLY	46.8400	-116.1223	5690	SNOTEL	1983-2023
ID	ELK BUTTE	86-0466	HL Y	46.8400	-116.1223	5690	SNOTEL	1983-2022
WY	ELKHART PARK G.S.	86-0468	HL Y	43.0066	-109.7589	9400	SNOTEL	1980-2022
WY	ELKHART PARK G.S.	86-0468	DLY	43.0066	-109.7589	9400	SNOTEL	1980-2023
MT	EMERY CREEK	86-0469	DLY	48.4341	-113.9372	4350	SNOTEL	1980-2023
MT	EMERY CREEK	86-0469	HL Y	48.4341	-113.9372	4350	SNOTEL	1980-2022

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	EMIGRANT SUMMIT	86-0471	HL Y	42.3605	-111.5609	7390	SNOTEL	1980-2022
ID	EMIGRANT SUMMIT	86-0471	DLY	42.3605	-111.5609	7390	SNOTEL	1980-2023
WY	EVENING STAR	86-0472	HL Y	44.6526	-109.7842	9200	SNOTEL	1980-2022
WY	EVENING STAR	86-0472	DLY	44.6526	-109.7842	9200	SNOTEL	1980-2023
MT	FISHER CREEK	86-0480	DLY	45.0624	-109.9449	9100	SNOTEL	1978-2023
MT	FISHER CREEK	86-0480	HL Y	45.0624	-109.9449	9100	SNOTEL	1978-2022
MT	FLATTOP MTN.	86-0482	DLY	48.8022	-113.8571	6300	SNOTEL	1978-2023
MT	FLATTOP MTN.	86-0482	HL Y	48.8022	-113.8571	6300	SNOTEL	1978-2022
ID	FRANKLIN BASIN	86-0484	DLY	42.0505	-111.6012	8140	SNOTEL	1979-2023
ID	FRANKLIN BASIN	86-0484	HL Y	42.0505	-111.6012	8140	SNOTEL	1979-2022
MT	FROHNER MEADOW	86-0487	DLY	46.4355	-112.1928	6480	SNOTEL	1978-2023
MT	FROHNER MEADOW	86-0487	HL Y	46.4355	-112.1928	6480	SNOTEL	1978-2022
ID	GALENA	86-0489	DLY	43.8772	-114.6725	7470	SNOTEL	1981-2023
ID	GALENA	86-0489	HL Y	43.8772	-114.6725	7470	SNOTEL	1981-2022
ID	GALENA SUMMIT	86-0490	DLY	43.8750	-114.7136	8780	SNOTEL	1979-2023
ID	GALENA SUMMIT	86-0490	HL Y	43.8750	-114.7136	8780	SNOTEL	1978-2022
ID	GARFIELD R.S.	86-0492	HL Y	43.6104	-113.9308	6560	SNOTEL	1980-2022
ID	GARFIELD R.S.	86-0492	DLY	43.6104	-113.9308	6560	SNOTEL	1980-2023
ID	GIVEOUT	86-0493	HL Y	42.4132	-111.1663	6930	SNOTEL	1980-2022
ID	GIVEOUT	86-0493	DLY	42.4132	-111.1663	6930	SNOTEL	1981-2023
ID	GRAHAM GUARD STA.	86-0496	DLY	43.9538	-115.2739	5690	SNOTEL	1979-2023
ID	GRAHAM GUARD STA.	86-0496	HL Y	43.9538	-115.2739	5690	SNOTEL	1978-2022
WY	GRANITE CREEK	86-0497	DLY	43.3430	-110.4350	6770	SNOTEL	1987-2023
WY	GRANITE CREEK	86-0497	HL Y	43.3430	-110.4350	6770	SNOTEL	1987-2022
WY	GRASSY LAKE	86-0499	DLY	44.1261	-110.8344	7265	SNOTEL	1979-2023
WY	GRASSY LAKE	86-0499	HL Y	44.1261	-110.8344	7265	SNOTEL	1979-2022
MT	GRAVE CREEK	86-0500	HL Y	48.9145	-114.7666	4300	SNOTEL	1979-2022
MT	GRAVE CREEK	86-0500	DLY	48.9145	-114.7666	4300	SNOTEL	1979-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	GRAVE SPRINGS	86-0501	HL Y	43.4664	-107.2398	8550	SNOTEL	1992-2022
WY	GRAVE SPRINGS	86-0501	DLY	43.4664	-107.2398	8550	SNOTEL	1992-2023
WY	GROS VENTRE SUMMIT	86-0506	HL Y	43.3894	-110.1294	8750	SNOTEL	1978-2022
WY	GROS VENTRE SUMMIT	86-0506	DLY	43.3894	-110.1294	8750	SNOTEL	1979-2023
WY	HAMS FORK	86-0509	HL Y	42.1460	-110.6783	7840	SNOTEL	1985-2022
WY	HAMS FORK	86-0509	DLY	42.1460	-110.6783	7840	SNOTEL	1985-2023
MT	HAND CREEK	86-0510	DLY	48.3075	-114.8408	5035	SNOTEL	1978-2023
MT	HAND CREEK	86-0510	HL Y	48.3075	-114.8408	5035	SNOTEL	1978-2022
WY	HANSEN SAWMILL	86-0512	HL Y	44.2560	-106.9798	8360	SNOTEL	1980-2022
WY	HANSEN SAWMILL	86-0512	DLY	44.2560	-106.9798	8360	SNOTEL	1980-2023
MT	HAWKINS LAKE	86-0516	DLY	48.9723	-115.9534	6450	SNOTEL	1987-2023
MT	HAWKINS LAKE	86-0516	HL Y	48.9723	-115.9534	6450	SNOTEL	1987-2022
ID	HEMLOCK BUTTE	86-0520	DLY	46.4811	-115.6336	5810	SNOTEL	1983-2023
ID	HEMLOCK BUTTE	86-0520	HL Y	46.4811	-115.6336	5810	SNOTEL	1983-2022
ID	HILTS CREEK	86-0524	DLY	44.0190	-113.4723	8000	SNOTEL	1981-2023
ID	HILTS CREEK	86-0524	HL Y	44.0190	-113.4723	8000	SNOTEL	1981-2022
WY	HOBBS PARK	86-0525	DLY	42.8698	-109.0946	10100	SNOTEL	1978-2023
WY	HOBBS PARK	86-0525	HL Y	42.8698	-109.0946	10100	SNOTEL	1978-2022
MT	HOODOO BASIN	86-0530	DLY	46.9751	-115.0349	6050	SNOTEL	1980-2023
MT	HOODOO BASIN	86-0530	HL Y	46.9751	-115.0349	6050	SNOTEL	1980-2022
ID	HOWELL CANYON	86-0534	DLY	42.3203	-113.6159	7980	SNOTEL	1980-2023
ID	HOWELL CANYON	86-0534	HL Y	42.3203	-113.6159	7980	SNOTEL	1980-2022
ID	HUMBOLDT GULCH	86-0535	DLY	47.5318	-115.7764	4250	SNOTEL	1979-2023
ID	HUMBOLDT GULCH	86-0535	HL Y	47.5318	-115.7764	4250	SNOTEL	1980-2022
ID	HYNDMAN	86-0537	HL Y	43.7108	-114.1589	7620	SNOTEL	1981-2022
ID	HYNDMAN	86-0537	DLY	43.7108	-114.1589	7620	SNOTEL	1981-2023
WY	INDIAN CREEK	86-0544	HL Y	42.3002	-110.6775	9425	SNOTEL	1980-2022
WY	INDIAN CREEK	86-0544	DLY	42.3002	-110.6775	9425	SNOTEL	1980-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	ISLAND PARK	86-0546	HL Y	44.4203	-111.3851	6290	SNOTEL	1981-2022
ID	ISLAND PARK	86-0546	DLY	44.4203	-111.3851	6290	SNOTEL	1981-2023
ID	JACKSON PEAK	86-0550	DLY	44.0509	-115.4432	7070	SNOTEL	1981-2023
ID	JACKSON PEAK	86-0550	HL Y	44.0509	-115.4432	7070	SNOTEL	1980-2022
WY	KELLEY R.S.	86-0554	HL Y	42.2655	-110.8018	8180	SNOTEL	1980-2022
WY	KELLEY R.S.	86-0554	DLY	42.2655	-110.8018	8180	SNOTEL	1980-2023
WY	KENDALL R.S.	86-0555	DLY	43.2493	-110.0166	7740	SNOTEL	1985-2023
WY	KENDALL R.S.	86-0555	HL Y	43.2493	-110.0166	7740	SNOTEL	1985-2022
WY	KIRWIN	86-0560	DLY	43.8607	-109.3216	9550	SNOTEL	1980-2023
WY	KIRWIN	86-0560	HL Y	43.8607	-109.3216	9550	SNOTEL	1980-2022
MT	KRAFT CREEK	86-0562	HL Y	47.4275	-113.7751	4750	SNOTEL	1980-2022
MT	KRAFT CREEK	86-0562	DLY	47.4275	-113.7751	4750	SNOTEL	1980-2023
MT	LAKEVIEW RIDGE	86-0568	HL Y	44.5891	-111.8250	7400	SNOTEL	1978-2022
MT	LAKEVIEW RIDGE	86-0568	DLY	44.5891	-111.8250	7400	SNOTEL	1978-2023
WY	LAPRELE CREEK	86-0571	HL Y	42.4358	-105.8608	8375	SNOTEL	1982-2022
WY	LAPRELE CREEK	86-0571	DLY	42.4358	-105.8608	8375	SNOTEL	1979-2023
MT	LEMHI RIDGE	86-0576	HL Y	44.9938	-113.4440	8100	SNOTEL	1979-2022
MT	LEMHI RIDGE	86-0576	DLY	44.9938	-113.4440	8100	SNOTEL	1979-2023
WY	LEWIS LAKE DIVIDE	86-0577	DLY	44.2086	-110.6663	7850	SNOTEL	1979-2023
WY	LEWIS LAKE DIVIDE	86-0577	HL Y	44.2086	-110.6663	7850	SNOTEL	1979-2022
MT	LICK CREEK	86-0578	HL Y	45.5041	-110.9662	6860	SNOTEL	1978-2022
MT	LICK CREEK	86-0578	DLY	45.5041	-110.9662	6860	SNOTEL	1978-2023
WY	LITTLE WARM	86-0585	DLY	43.5028	-109.7520	9370	SNOTEL	1978-2023
WY	LITTLE WARM	86-0585	HL Y	43.5028	-109.7520	9370	SNOTEL	1978-2022
ID	LOLO PASS	86-0588	DLY	46.6345	-114.5807	5240	SNOTEL	1983-2023
ID	LOLO PASS	86-0588	HL Y	46.6345	-114.5807	5240	SNOTEL	1983-2022
MT	LONE MOUNTAIN	86-0590	DLY	45.2741	-111.4269	8880	SNOTEL	1991-2023
MT	LONE MOUNTAIN	86-0590	HL Y	45.2741	-111.4269	8880	SNOTEL	1991-2022

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	LOOKOUT	86-0594	HL Y	47.4575	-115.7046	5190	SNOTEL	1979-2022
ID	LOOKOUT	86-0594	DLY	47.4575	-115.7046	5190	SNOTEL	1979-2023
WY	LOOMIS PARK	86-0597	DLY	43.1739	-110.1401	8240	SNOTEL	1980-2023
WY	LOOMIS PARK	86-0597	HL Y	43.1739	-110.1401	8240	SNOTEL	1980-2022
ID	LOST LAKE	86-0600	DLY	47.0809	-115.9604	6110	SNOTEL	1981-2023
ID	LOST LAKE	86-0600	HL Y	47.0809	-115.9604	6110	SNOTEL	1981-2022
ID	LOST-WOOD DIVIDE	86-0601	HL Y	43.8243	-114.2640	7900	SNOTEL	1981-2022
ID	LOST-WOOD DIVIDE	86-0601	DLY	43.8243	-114.2640	7900	SNOTEL	1981-2023
MT	LOWER TWIN	86-0603	DLY	45.5087	-111.9229	7900	SNOTEL	1980-2023
MT	LOWER TWIN	86-0603	HL Y	45.5087	-111.9229	7900	SNOTEL	1980-2022
MT	LUBRECHT FLUME	86-0604	DLY	46.8829	-113.3223	4680	SNOTEL	1978-2023
MT	LUBRECHT FLUME	86-0604	HL Y	46.8829	-113.3223	4680	SNOTEL	1978-2022
MT	MADISON PLATEAU	86-0609	DLY	44.5862	-111.1163	7750	SNOTEL	1988-2023
MT	MADISON PLATEAU	86-0609	HL Y	44.5862	-111.1163	7750	SNOTEL	1988-2022
ID	MAGIC MOUNTAIN	86-0610	DLY	42.1807	-114.2866	6880	SNOTEL	1980-2023
ID	MAGIC MOUNTAIN	86-0610	HL Y	42.1807	-114.2866	6880	SNOTEL	1980-2022
MT	MANY GLACIER	86-0613	DLY	48.7970	-113.6705	4900	SNOTEL	1978-2023
MT	MANY GLACIER	86-0613	HL Y	48.7970	-113.6705	4900	SNOTEL	1978-2022
WY	MARQUETTE	86-0616	DLY	44.3016	-109.2402	8760	SNOTEL	1980-2023
WY	MARQUETTE	86-0616	HL Y	44.3016	-109.2402	8760	SNOTEL	1980-2022
ID	MEADOW LAKE	86-0620	HL Y	44.4366	-113.3182	9150	SNOTEL	1980-2022
ID	MEADOW LAKE	86-0620	DLY	44.4366	-113.3182	9150	SNOTEL	1981-2023
ID	MICA CREEK	86-0623	DLY	47.1505	-116.2664	4510	SNOTEL	1990-2023
ID	MICA CREEK	86-0623	HL Y	47.1505	-116.2664	4510	SNOTEL	1990-2022
WY	MIDDLE POWDER	86-0625	HL Y	43.6273	-107.1814	7760	SNOTEL	1978-2022
WY	MIDDLE POWDER	86-0625	DLY	43.6273	-107.1814	7760	SNOTEL	1978-2023
ID	MILL CREEK SUMMIT	86-0627	HL Y	44.4721	-114.4899	8800	SNOTEL	1979-2022
ID	MILL CREEK SUMMIT	86-0627	DLY	44.4721	-114.4899	8800	SNOTEL	1979-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	MONUMENT PEAK	86-0635	HL Y	45.2176	-110.2370	8850	SNOTEL	1980-2022
MT	MONUMENT PEAK	86-0635	DLY	45.2176	-110.2370	8850	SNOTEL	1980-2023
ID	MOONSHINE	86-0636	HL Y	44.4147	-113.3981	7440	SNOTEL	1981-2022
ID	MOONSHINE	86-0636	DLY	44.4147	-113.3981	7440	SNOTEL	1981-2023
ID	MORES CREEK SUMMIT	86-0637	DLY	43.9320	-115.6659	6100	SNOTEL	1979-2023
ID	MORES CREEK SUMMIT	86-0637	HL Y	43.9320	-115.6659	6100	SNOTEL	1979-2022
ID	MOOSE CREEK	86-0638	DLY	45.6701	-113.9531	6200	SNOTEL	1981-2023
ID	MOOSE CREEK	86-0638	HL Y	45.6701	-113.9531	6200	SNOTEL	1980-2022
ID	MORGAN CREEK	86-0639	DLY	44.8424	-114.2687	7600	SNOTEL	1981-2023
ID	MORGAN CREEK	86-0639	HL Y	44.8424	-114.2687	7600	SNOTEL	1981-2022
ID	MOSQUITO RIDGE	86-0645	HL Y	48.0573	-116.2306	5260	SNOTEL	1980-2022
ID	MOSQUITO RIDGE	86-0645	DLY	48.0573	-116.2306	5260	SNOTEL	1979-2023
MT	MOSS PEAK	86-0646	HL Y	47.6849	-113.9623	6780	SNOTEL	1985-2022
MT	MOSS PEAK	86-0646	DLY	47.6849	-113.9623	6780	SNOTEL	1985-2023
MT	MOUNT LOCKHART	86-0649	DLY	47.9173	-112.8238	6400	SNOTEL	1978-2023
MT	MOUNT LOCKHART	86-0649	HL Y	47.9173	-112.8238	6400	SNOTEL	1978-2022
ID	MOUNTAIN MEADOWS	86-0650	HL Y	45.6969	-115.2297	6320	SNOTEL	1980-2022
ID	MOUNTAIN MEADOWS	86-0650	DLY	45.6969	-115.2297	6320	SNOTEL	1980-2023
ID	MUD FLAT	86-0654	DLY	42.6004	-116.5592	5730	SNOTEL	1980-2023
ID	MUD FLAT	86-0654	HL Y	42.6004	-116.5592	5730	SNOTEL	1980-2022
MT	MULE CREEK	86-0656	HL Y	45.4096	-112.9593	8300	SNOTEL	1980-2022
MT	MULE CREEK	86-0656	DLY	45.4096	-112.9593	8300	SNOTEL	1980-2023
MT	N FK ELK CREEK	86-0657	HL Y	46.8716	-113.2773	6250	SNOTEL	1978-2022
MT	N FK ELK CREEK	86-0657	DLY	46.8716	-113.2773	6250	SNOTEL	1978-2023
MT	NEZ PERCE CAMP	86-0662	DLY	45.7311	-114.4808	5650	SNOTEL	1980-2023
MT	NEZ PERCE CAMP	86-0662	HL Y	45.7311	-114.4808	5650	SNOTEL	1980-2022
MT	NOISY BASIN	86-0664	DLY	48.1568	-113.9464	6040	SNOTEL	1978-2023
MT	NOISY BASIN	86-0664	HL Y	48.1568	-113.9464	6040	SNOTEL	1978-2022

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	NORTH FORK JOCKO	86-0667	DLY	47.2726	-113.7562	6330	SNOTEL	1989-2023
MT	NORTH FORK JOCKO	86-0667	HLY	47.2726	-113.7562	6330	SNOTEL	1989-2022
WY	NORTH FRENCH CREEK	86-0668	HLY	41.3308	-106.3755	10130	SNOTEL	1978-2022
WY	NORTH FRENCH CREEK	86-0668	DLY	41.3308	-106.3755	10130	SNOTEL	1978-2023
WY	OLD BATTLE	86-0673	HLY	41.1540	-106.9694	10000	SNOTEL	1978-2022
WY	OLD BATTLE	86-0673	DLY	41.1540	-106.9694	10000	SNOTEL	1979-2023
WY	OWL CREEK	86-0676	HLY	43.6587	-109.0099	8975	SNOTEL	1980-2022
WY	OWL CREEK	86-0676	DLY	43.6587	-109.0099	8975	SNOTEL	1980-2023
ID	OXFORD SPRING	86-0677	HLY	42.2602	-112.1252	6740	SNOTEL	1980-2022
ID	OXFORD SPRING	86-0677	DLY	42.2602	-112.1252	6740	SNOTEL	1980-2023
WY	PARKER PEAK	86-0683	HLY	44.7340	-109.9148	9400	SNOTEL	1980-2022
WY	PARKER PEAK	86-0683	DLY	44.7340	-109.9148	9400	SNOTEL	1980-2023
WY	PHILLIPS BENCH	86-0689	HLY	43.5169	-110.9126	8200	SNOTEL	1979-2022
WY	PHILLIPS BENCH	86-0689	DLY	43.5169	-110.9126	8200	SNOTEL	1979-2023
MT	PICKFOOT CREEK	86-0690	DLY	46.5798	-111.2683	6650	SNOTEL	1978-2023
MT	PICKFOOT CREEK	86-0690	HLY	46.5798	-111.2683	6650	SNOTEL	1978-2022
MT	PIKE CREEK	86-0693	HLY	48.3031	-113.3287	5930	SNOTEL	1980-2022
MT	PIKE CREEK	86-0693	DLY	48.3031	-113.3287	5930	SNOTEL	1980-2023
ID	PINE CREEK PASS	86-0695	DLY	43.5700	-111.2116	6720	SNOTEL	1988-2023
ID	PINE CREEK PASS	86-0695	HLY	43.5700	-111.2116	6720	SNOTEL	1988-2022
MT	PLACER BASIN	86-0696	HLY	45.4190	-110.0884	8830	SNOTEL	1980-2022
MT	PLACER BASIN	86-0696	DLY	45.4190	-110.0884	8830	SNOTEL	1980-2023
MT	PORCUPINE	86-0700	DLY	46.1119	-110.4696	6500	SNOTEL	1978-2023
MT	PORCUPINE	86-0700	HLY	46.1119	-110.4696	6500	SNOTEL	1978-2022
WY	POWDER RIVER PASS	86-0703	HLY	44.1619	-107.1262	9480	SNOTEL	1978-2022
WY	POWDER RIVER PASS	86-0703	DLY	44.1619	-107.1262	9480	SNOTEL	1978-2023
ID	PRAIRIE	86-0704	HLY	43.5051	-115.5730	4800	SNOTEL	1981-2022
ID	PRAIRIE	86-0704	DLY	43.5051	-115.5730	4800	SNOTEL	1981-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	RENO HILL	86-0716	HL Y	42.5711	-106.0889	8400	SNOTEL	1982-2022
WY	RENO HILL	86-0716	DLY	42.5711	-106.0889	8400	SNOTEL	1982-2023
MT	ROCKER PEAK	86-0722	DLY	46.3561	-112.2618	8000	SNOTEL	1978-2023
MT	ROCKER PEAK	86-0722	HL Y	46.3561	-112.2618	8000	SNOTEL	1978-2022
MT	S FORK SHIELDS	86-0725	HL Y	46.0896	-110.4336	8100	SNOTEL	1983-2022
MT	S FORK SHIELDS	86-0725	DLY	46.0896	-110.4336	8100	SNOTEL	1983-2023
MT	SADDLE MTN.	86-0727	HL Y	45.6926	-113.9683	7940	SNOTEL	1978-2022
MT	SADDLE MTN.	86-0727	DLY	45.6926	-113.9683	7940	SNOTEL	1978-2023
WY	SALT RIVER SUMMIT	86-0730	HL Y	42.5075	-110.9099	7640	SNOTEL	1978-2022
WY	SALT RIVER SUMMIT	86-0730	DLY	42.5075	-110.9099	7640	SNOTEL	1979-2023
WY	SAND LAKE	86-0731	DLY	41.4626	-106.2811	10050	SNOTEL	1982-2023
WY	SAND LAKE	86-0731	HL Y	41.4626	-106.2811	10050	SNOTEL	1981-2022
WY	SANDSTONE RS	86-0732	HL Y	41.1117	-107.1706	8150	SNOTEL	1985-2022
WY	SANDSTONE RS	86-0732	DLY	41.1117	-107.1706	8150	SNOTEL	1985-2023
ID	SAVAGE PASS	86-0735	HL Y	46.4663	-114.6333	6190	SNOTEL	1983-2022
ID	SAVAGE PASS	86-0735	DLY	46.4663	-114.6333	6190	SNOTEL	1983-2023
ID	SCHWEITZER BASIN	86-0738	DLY	48.3743	-116.6392	6090	SNOTEL	1981-2023
ID	SCHWEITZER BASIN	86-0738	HL Y	48.3743	-116.6392	6090	SNOTEL	1981-2022
ID	SECESH SUMMIT	86-0740	DLY	45.1885	-115.9715	6540	SNOTEL	1981-2023
ID	SECESH SUMMIT	86-0740	HL Y	45.1885	-115.9715	6540	SNOTEL	1981-2022
ID	SEDGWICK PEAK	86-0741	HL Y	42.5250	-111.9564	7850	SNOTEL	1988-2022
ID	SEDGWICK PEAK	86-0741	DLY	42.5250	-111.9564	7850	SNOTEL	1988-2023
ID	SHANGHI SUMMIT	86-0747	DLY	46.5660	-115.7422	4600	SNOTEL	1983-2023
ID	SHANGHI SUMMIT	86-0747	HL Y	46.5660	-115.7422	4600	SNOTEL	1983-2022
ID	SHEEP MTN.	86-0749	HL Y	43.2103	-111.6879	6650	SNOTEL	1978-2022
ID	SHEEP MTN.	86-0749	DLY	43.2103	-111.6879	6650	SNOTEL	1979-2023
WY	SHELL CREEK	86-0751	HL Y	44.5001	-107.4295	9580	SNOTEL	1978-2022
WY	SHELL CREEK	86-0751	DLY	44.5001	-107.4295	9580	SNOTEL	1978-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	SHERWIN	86-0752	HL Y	46.9503	-116.3397	3200	SNOTEL	1982-2022
ID	SHERWIN	86-0752	DLY	46.9503	-116.3397	3200	SNOTEL	1982-2023
MT	SHORT CREEK	86-0753	DLY	44.9757	-111.9521	7000	SNOTEL	1988-2023
MT	SHORT CREEK	86-0753	HL Y	44.9757	-111.9521	7000	SNOTEL	1988-2022
MT	SHOWER FALLS	86-0754	DLY	45.4012	-110.9576	8100	SNOTEL	1978-2023
MT	SHOWER FALLS	86-0754	HL Y	45.4012	-110.9576	8100	SNOTEL	1978-2022
MT	SKALKAHO SUMMIT	86-0760	HL Y	46.2421	-113.7725	7250	SNOTEL	1980-2022
MT	SKALKAHO SUMMIT	86-0760	DLY	46.2421	-113.7725	7250	SNOTEL	1980-2023
ID	SLUG CREEK DIVIDE	86-0761	DLY	42.5625	-111.2980	7225	SNOTEL	1979-2023
ID	SLUG CREEK DIVIDE	86-0761	HL Y	42.5625	-111.2980	7225	SNOTEL	1978-2022
WY	SNAKE RIVER STATION	86-0764	DLY	44.1336	-110.6692	6920	SNOTEL	1989-2023
WY	SNAKE RIVER STATION	86-0764	HL Y	44.1336	-110.6692	6920	SNOTEL	1989-2022
WY	SNIDER BASIN	86-0765	HL Y	42.4949	-110.5320	8060	SNOTEL	1980-2022
WY	SNIDER BASIN	86-0765	DLY	42.4949	-110.5320	8060	SNOTEL	1980-2023
ID	SOLDIER R.S.	86-0769	DLY	43.4841	-114.8269	5740	SNOTEL	1986-2023
ID	SOLDIER R.S.	86-0769	HL Y	43.4841	-114.8269	5740	SNOTEL	1986-2022
ID	SOMSEN RANCH	86-0770	DLY	42.9528	-111.3593	6800	SNOTEL	1979-2023
ID	SOMSEN RANCH	86-0770	HL Y	42.9528	-111.3593	6800	SNOTEL	1978-2022
WY	SOUTH BRUSH CREEK	86-0772	HL Y	41.3294	-106.5025	8440	SNOTEL	1978-2022
WY	SOUTH BRUSH CREEK	86-0772	DLY	41.3294	-106.5025	8440	SNOTEL	1979-2023
ID	SOUTH MTN.	86-0774	DLY	42.7648	-116.9004	6500	SNOTEL	1979-2023
ID	SOUTH MTN.	86-0774	HL Y	42.7648	-116.9004	6500	SNOTEL	1978-2022
WY	SOUTH PASS	86-0775	DLY	42.5732	-108.8432	9040	SNOTEL	1985-2023
WY	SOUTH PASS	86-0775	HL Y	42.5732	-108.8432	9040	SNOTEL	1985-2022
WY	SPRING CREEK DIVIDE	86-0779	HL Y	42.5252	-110.6615	9000	SNOTEL	1979-2022
WY	SPRING CREEK DIVIDE	86-0779	DLY	42.5252	-110.6615	9000	SNOTEL	1979-2023
MT	SPUR PARK	86-0781	HL Y	46.7796	-110.6217	8100	SNOTEL	1978-2022
MT	SPUR PARK	86-0781	DLY	46.7796	-110.6217	8100	SNOTEL	1978-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	SQUAW FLAT	86-0782	HL Y	44.7709	-116.2480	6240	SNOTEL	1980-2022
ID	SQUAW FLAT	86-0782	DLY	44.7709	-116.2480	6240	SNOTEL	1981-2023
MT	SLEEPING WOMAN	86-0783	HL Y	47.1790	-114.3337	6150	SNOTEL	1992-2022
MT	SLEEPING WOMAN	86-0783	DLY	47.1790	-114.3337	6150	SNOTEL	1992-2023
WY	ST. LAWRENCE ALT	86-0786	HL Y	43.0331	-109.1702	8620	SNOTEL	1983-2022
WY	ST. LAWRENCE ALT	86-0786	DLY	43.0331	-109.1702	8620	SNOTEL	1983-2023
MT	STAHL PEAK	86-0787	HL Y	48.9090	-114.8630	6030	SNOTEL	1978-2022
MT	STAHL PEAK	86-0787	DLY	48.9090	-114.8630	6030	SNOTEL	1978-2023
ID	STICKNEY MILL	86-0792	HL Y	43.8612	-114.2090	7430	SNOTEL	1981-2022
ID	STICKNEY MILL	86-0792	DLY	43.8612	-114.2090	7430	SNOTEL	1981-2023
WY	SUCKER CREEK	86-0798	HL Y	44.7225	-107.4003	8880	SNOTEL	1978-2022
WY	SUCKER CREEK	86-0798	DLY	44.7225	-107.4003	8880	SNOTEL	1978-2023
ID	SUNSET	86-0803	DLY	47.5555	-115.8242	5540	SNOTEL	1979-2023
ID	SUNSET	86-0803	HL Y	47.5555	-115.8242	5540	SNOTEL	1979-2022
ID	SWEDE PEAK	86-0805	DLY	43.6260	-113.9689	7640	SNOTEL	1979-2023
ID	SWEDE PEAK	86-0805	HL Y	43.6260	-113.9689	7640	SNOTEL	1978-2022
WY	SYLVAN LAKE	86-0806	DLY	44.4776	-110.1565	8420	SNOTEL	1980-2023
WY	SYLVAN LAKE	86-0806	HL Y	44.4776	-110.1565	8420	SNOTEL	1980-2022
WY	SYLVAN ROAD	86-0807	HL Y	44.4782	-110.0381	7120	SNOTEL	1987-2022
WY	SYLVAN ROAD	86-0807	DLY	44.4782	-110.0381	7120	SNOTEL	1987-2023
MT	TEPEE CREEK	86-0813	DLY	44.7856	-111.7100	8000	SNOTEL	1978-2023
MT	TEPEE CREEK	86-0813	HL Y	44.7856	-111.7100	8000	SNOTEL	1978-2022
WY	THUMB DIVIDE	86-0816	HL Y	44.3692	-110.5772	7980	SNOTEL	1987-2022
WY	THUMB DIVIDE	86-0816	DLY	44.3692	-110.5772	7980	SNOTEL	1987-2023
WY	TIMBER CREEK	86-0819	HL Y	44.0274	-109.1788	7950	SNOTEL	1987-2022
WY	TIMBER CREEK	86-0819	DLY	44.0274	-109.1788	7950	SNOTEL	1987-2023
WY	TOGWOTEE PASS	86-0822	HL Y	43.7490	-110.0578	9580	SNOTEL	1980-2022
WY	TOGWOTEE PASS	86-0822	DLY	43.7490	-110.0578	9580	SNOTEL	1980-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	TOWNSEND CREEK	86-0826	DLY	42.6953	-108.8957	8700	SNOTEL	1980-2023
WY	TOWNSEND CREEK	86-0826	HLY	42.6953	-108.8957	8700	SNOTEL	1980-2022
ID	TRINITY MTN.	86-0830	DLY	43.6290	-115.4382	7770	SNOTEL	1979-2023
ID	TRINITY MTN.	86-0830	HLY	43.6290	-115.4382	7770	SNOTEL	1980-2022
WY	TRIPLE PEAK	86-0831	HLY	42.7639	-110.5914	8500	SNOTEL	1985-2022
WY	TRIPLE PEAK	86-0831	DLY	42.7639	-110.5914	8500	SNOTEL	1985-2023
MT	TWELVEMILE CREEK	86-0835	HLY	46.1429	-114.4475	5600	SNOTEL	1979-2022
MT	TWELVEMILE CREEK	86-0835	DLY	46.1429	-114.4475	5600	SNOTEL	1979-2023
MT	TWIN LAKES	86-0836	DLY	46.1438	-114.5056	6400	SNOTEL	1978-2023
MT	TWIN LAKES	86-0836	HLY	46.1438	-114.5056	6400	SNOTEL	1978-2022
WY	TWO OCEAN PLATEAU	86-0837	DLY	44.1518	-110.2212	9240	SNOTEL	1980-2023
WY	TWO OCEAN PLATEAU	86-0837	HLY	44.1518	-110.2212	9240	SNOTEL	1980-2022
ID	VIENNA MINE	86-0845	HLY	43.7994	-114.8527	8960	SNOTEL	1979-2022
ID	VIENNA MINE	86-0845	DLY	43.7994	-114.8527	8960	SNOTEL	1979-2023
MT	WALDRON	86-0847	HLY	47.9200	-112.7909	5600	SNOTEL	1978-2022
MT	WALDRON	86-0847	DLY	47.9200	-112.7909	5600	SNOTEL	1978-2023
MT	WARM SPRINGS	86-0850	DLY	46.2737	-113.1640	7800	SNOTEL	1980-2023
MT	WARM SPRINGS	86-0850	HLY	46.2737	-113.1640	7800	SNOTEL	1980-2022
WY	WEBBER SPRINGS	86-0852	HLY	41.1595	-106.9271	9250	SNOTEL	1978-2022
WY	WEBBER SPRINGS	86-0852	DLY	41.1595	-106.9271	9250	SNOTEL	1979-2023
ID	WEST BRANCH	86-0855	DLY	45.0722	-116.4541	5560	SNOTEL	1980-2023
ID	WEST BRANCH	86-0855	HLY	45.0722	-116.4541	5560	SNOTEL	1980-2022
MT	WHISKEY CREEK	86-0858	DLY	44.6109	-111.1500	6800	SNOTEL	1979-2023
MT	WHISKEY CREEK	86-0858	HLY	44.6109	-111.1500	6800	SNOTEL	1979-2022
WY	WHISKEY PARK	86-0859	DLY	41.0029	-106.9085	8950	SNOTEL	1986-2023
WY	WHISKEY PARK	86-0859	HLY	41.0029	-106.9085	8950	SNOTEL	1986-2022
ID	WHITE ELEPHANT	86-0860	HLY	44.5327	-111.4109	7710	SNOTEL	1981-2022
ID	WHITE ELEPHANT	86-0860	DLY	44.5327	-111.4109	7710	SNOTEL	1981-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	WHITE MILL	86-0862	DLY	45.0457	-109.9099	8700	SNOTEL	1978-2023
MT	WHITE MILL	86-0862	HLY	45.0457	-109.9099	8700	SNOTEL	1978-2022
ID	WILDHORSE DIVIDE	86-0867	DLY	42.7574	-112.4778	6490	SNOTEL	1982-2023
ID	WILDHORSE DIVIDE	86-0867	HLY	42.7574	-112.4778	6490	SNOTEL	1983-2022
WY	WILLOW CREEK	86-0868	HLY	42.8151	-110.8352	8080	SNOTEL	1980-2022
WY	WILLOW CREEK	86-0868	DLY	42.8151	-110.8352	8080	SNOTEL	1980-2023
ID	WILSON CREEK	86-0871	DLY	42.0126	-115.0028	7120	SNOTEL	1990-2023
ID	WILSON CREEK	86-0871	HLY	42.0126	-115.0028	7120	SNOTEL	1990-2022
WY	WINDY PEAK	86-0872	HLY	42.2802	-105.5782	7900	SNOTEL	1980-2022
WY	WINDY PEAK	86-0872	DLY	42.2802	-105.5782	7900	SNOTEL	1982-2023
WY	WOLVERINE	86-0875	HLY	44.8042	-109.6570	7650	SNOTEL	1980-2022
WY	WOLVERINE	86-0875	DLY	44.8042	-109.6570	7650	SNOTEL	1980-2023
MT	WOOD CREEK	86-0876	HLY	47.4485	-112.8143	5960	SNOTEL	1978-2022
MT	WOOD CREEK	86-0876	DLY	47.4485	-112.8143	5960	SNOTEL	1978-2023
WY	YOUNTS PEAK	86-0878	DLY	43.9323	-109.8177	8350	SNOTEL	1980-2023
WY	YOUNTS PEAK	86-0878	HLY	43.9323	-109.8177	8350	SNOTEL	1980-2022
MT	TIZER BASIN	86-0893	DLY	46.3494	-111.8531	6880	SNOTEL	1988-2023
MT	TIZER BASIN	86-0893	HLY	46.3494	-111.8531	6880	SNOTEL	1988-2022
ID	CHOCOLATE GULCH	86-0895	DLY	43.7685	-114.4181	6310	SNOTEL	1993-2023
ID	CHOCOLATE GULCH	86-0895	HLY	43.7685	-114.4181	6310	SNOTEL	1993-2022
MT	STUART MOUNTAIN	86-0901	HLY	46.9952	-113.9266	7400	SNOTEL	1994-2022
MT	STUART MOUNTAIN	86-0901	DLY	46.9952	-113.9266	7400	SNOTEL	1994-2023
ID	SCHWARTZ LAKE	86-0915	DLY	44.8462	-113.8373	8630	SNOTEL	1995-2023
ID	SCHWARTZ LAKE	86-0915	HLY	44.8462	-113.8373	8630	SNOTEL	1995-2022
MT	ALBRO LAKE	86-0916	HLY	45.5972	-111.9590	8300	SNOTEL	1996-2022
MT	ALBRO LAKE	86-0916	DLY	45.5972	-111.9590	8300	SNOTEL	1996-2023
MT	ROCKY BOY	86-0917	DLY	48.1748	-109.6473	4700	SNOTEL	1996-2024
MT	ROCKY BOY	86-0917	HLY	48.1748	-109.6473	4700	SNOTEL	1996-2022

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	GARVER CREEK	86-0918	HL Y	48.9752	-115.8192	4250	SNOTEL	1996-2022
MT	GARVER CREEK	86-0918	DLY	48.9752	-115.8192	4250	SNOTEL	1996-2023
MT	DAISY PEAK	86-0919	DLY	46.6686	-110.3302	7600	SNOTEL	1996-2023
MT	DAISY PEAK	86-0919	HL Y	46.6686	-110.3302	7600	SNOTEL	1996-2022
ID	SMILEY MOUNTAIN	86-0926	DLY	43.7272	-113.8340	9520	SNOTEL	2001-2023
ID	SMILEY MOUNTAIN	86-0926	HL Y	43.7272	-113.8340	9520	SNOTEL	2001-2022
MT	SACAJAWEA	86-0929	HL Y	45.8740	-110.9278	6550	SNOTEL	1999-2022
MT	SACAJAWEA	86-0929	DLY	45.8740	-110.9278	6550	SNOTEL	1999-2023
MT	POORMAN CREEK	86-0932	DLY	48.1267	-115.6233	5100	SNOTEL	1998-2023
MT	POORMAN CREEK	86-0932	HL Y	48.1267	-115.6233	5100	SNOTEL	1998-2022
WY	GUNSIGHT PASS	86-0944	DLY	43.3833	-109.8782	9820	SNOTEL	1998-2023
WY	GUNSIGHT PASS	86-0944	HL Y	43.3833	-109.8782	9820	SNOTEL	1998-2022
ID	BOGUS BASIN	86-0978	HL Y	43.7638	-116.0968	6340	SNOTEL	1999-2022
ID	BOGUS BASIN	86-0978	DLY	43.7638	-116.0968	6340	SNOTEL	1999-2023
ID	VAN WYCK	86-0979	HL Y	44.3767	-116.3366	4920	SNOTEL	2001-2022
ID	VAN WYCK	86-0979	DLY	44.3767	-116.3366	4920	SNOTEL	2001-2023
ID	HIDDEN LAKE	86-0988	HL Y	48.8937	-116.7575	5040	SNOTEL	2000-2022
ID	HIDDEN LAKE	86-0988	DLY	48.8937	-116.7575	5040	SNOTEL	2000-2023
ID	MOSCOW MOUNTAIN	86-0989	DLY	46.8050	-116.8535	4700	SNOTEL	2000-2023
ID	MOSCOW MOUNTAIN	86-0989	HL Y	46.8050	-116.8535	4700	SNOTEL	2000-2022
WY	CROW CREEK	86-1045	DLY	41.2287	-105.3828	8330	SNOTEL	2003-2023
WY	CROW CREEK	86-1045	HL Y	41.2287	-105.3828	8330	SNOTEL	2003-2022
ID	MYRTLE CREEK	86-1053	HL Y	48.7226	-116.4631	3520	SNOTEL	2003-2022
ID	MYRTLE CREEK	86-1053	DLY	48.7226	-116.4631	3520	SNOTEL	2003-2023
ID	RAGGED MOUNTAIN	86-1081	HL Y	47.8558	-117.0367	4210	SNOTEL	2006-2022
ID	RAGGED MOUNTAIN	86-1081	DLY	47.8558	-117.0367	4210	SNOTEL	2006-2023
ID	PIERCE R.S.	86-1142	HL Y	46.4960	-115.7957	3080	SNOTEL	2009-2022
ID	PIERCE R.S.	86-1142	DLY	46.4960	-115.7957	3080	SNOTEL	2009-2023

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	BLACKFEET AGRIMET STATION NR S	87-0103	HL Y	48.6753	-112.5889	3905	USBR	1999-2022
MT	BIG FLAT NEAR TURNER WEATHER S	87-0133	HL Y	48.8356	-108.5636	3103	USBR	2000-2022
MT	BIG FLAT NEAR TURNER WEATHER S	87-0133	15M	48.8356	-108.5636	3103	USBR	2017-2017
MT	BOZEMAN MONTANA WEATHER STATIO	87-0343	HL Y	45.6731	-111.1547	4775	USBR	1992-2022
MT	BUFFALO RAPIDS WEATHER STATION	87-0373	HL Y	46.9883	-104.8031	2140	USBR	1999-2022
MT	BUFFALO RAPIDS WEATHER STATION	87-0403	HL Y	46.7783	-105.2975	2270	USBR	1999-2022
MT	DILLON MONTANA WEATHER STATION	87-0743	HL Y	45.3336	-112.5094	5000	USBR	1997-2022
MT	GLASGOW MONTANA WEATHER STATIO	87-0963	HL Y	48.1467	-106.6006	2084	USBR	1998-2022
WY	WEATHER STATION, GUERNSEY DAM,	87-1014	15M	42.2886	-104.7625	4480	USBR	1989-2022
WY	WEATHER STATION, GUERNSEY DAM,	87-1014	HL Y	42.2886	-104.7625	4480	USBR	1989-2022
MT	HARLEM MONTANA WEATHER STATION	87-1083	HL Y	48.5250	-108.8319	2360	USBR	1998-2022
MT	HELENA VALLEY MONTANA WEATHER	87-1103	HL Y	46.6756	-111.9892	3673	USBR	1995-2022
MT	JEFFERSON RVR VALLEY WEATHER S	87-1123	HL Y	45.7978	-112.1653	4415	USBR	2001-2022
MT	LOWER MUSSELSHELL WEATHER STAT	87-1233	HL Y	46.5628	-108.0058	2950	USBR	2000-2022
MT	MALTA MONTANA WEATHER STATION	87-1333	HL Y	48.3739	-107.7764	2270	USBR	1998-2022
MT	YELLOWSTONE RIVER AT MILES CIT	87-1404	15M	46.4217	-105.8606	2355	USBR	1984-2022
MT	YELLOWSTONE RIVER AT MILES CIT	87-1404	HL Y	46.4217	-105.8606	2355	USBR	1984-2022
MT	MOCCASIN WEATHER STATION, MT	87-1493	HL Y	47.0586	-109.9508	4243	USBR	2001-2022
MT	MOCCASIN WEATHER STATION, MT	87-1493	15M	47.0586	-109.9508	4243	USBR	2017-2017
WY	NORTH FORK SHOSHONE RIVER NEAR	87-1554	15M	44.4697	-109.4297	5399	USBR	1984-2022
WY	NORTH FORK SHOSHONE RIVER NEAR	87-1554	HL Y	44.4697	-109.4297	5399	USBR	1984-2022
MT	RUBY RIVER VALLEY WEATHER STAT	87-1763	HL Y	45.3450	-112.1503	5250	USBR	1996-2022
MT	SHIELDS VALLEY WEATHER STATION	87-2033	HL Y	46.0467	-110.6533	5310	USBR	2001-2022
WY	SWEETWATER RIVER NR INDEPENDEN	87-2044	15M	42.4925	-107.1381	5850	USBR	1988-2022
WY	SWEETWATER RIVER NR INDEPENDEN	87-2044	HL Y	42.4925	-107.1381	5850	USBR	1988-2022
MT	TOSTON MONTANA WEATHER STATION	87-2153	HL Y	46.1231	-111.4944	4058	USBR	1992-2022
MT	TETON RIVER WEATHER STATION NE	87-2183	HL Y	47.9006	-112.1597	3854	USBR	2001-2022
WY	WEATHER STATION, GLENDON DAM, W	87-2304	15M	42.4689	-104.9656	4780	USBR	1989-2022

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	WEATHER STATION, GLENDON DAM, W	87-2304	HL Y	42.4689	-104.9656	4780	USBR	1989-2022
WY	WEATHER STATION, PATHFINDER DA	87-2404	HL Y	42.4717	-106.8522	5920	USBR	1989-2022
WY	WEATHER STATION, PATHFINDER DA	87-2404	15M	42.4717	-106.8522	5920	USBR	1989-2022
WY	WEATHER STATION, SEMINOLE DAM,	87-2465	HL Y	42.1556	-106.9142	6946	USBR	1989-2022
WY	WEATHER STATION, SEMINOLE DAM,	87-2465	15M	42.1556	-106.9142	6175	USBR	1989-2022
WY	WEATHER STATION, WHALEN DAM, W	87-2474	15M	42.2481	-104.6278	4300	USBR	1989-2022
WY	WEATHER STATION, WHALEN DAM, W	87-2474	HL Y	42.2481	-104.6278	4300	USBR	1989-2022
MT	CORVALLIS, MONTANA AGRIMET WEA	87-3021	HL Y	46.3333	-114.0833	3597	USBR	1986-2022
MT	CORVALLIS, MONTANA AGRIMET WEA	87-3021	15M	46.3333	-114.0833	1096	USBR	1986-2022
MT	CRESTON, MONTANA AGRIMET WEATH	87-3091	HL Y	48.1875	-114.1278	2950	USBR	1988-2022
MT	CRESTON, MONTANA AGRIMET WEATH	87-3091	15M	48.1875	-114.1278	899	USBR	2012-2022
ID	CASCADE DAM AND CASCADE RESERV	87-3101	15M	44.5246	-116.0496	4828	USBR	1982-2022
ID	CASCADE DAM AND CASCADE RESERV	87-3101	HL Y	44.5246	-116.0496	4828	USBR	1982-2022
ID	CASCADE DAM AND CASCADE RESERV	87-3105	DLY	44.5246	-116.0496	4828	USBR	1980-2022
ID	DWORSHAK - DENT ACRES, IDAHO A	87-3151	HL Y	46.6233	-116.2206	1640	USBR	2002-2022
ID	DWORSHAK - DENT ACRES, IDAHO A	87-3151	15M	46.6233	-116.2206	500	USBR	2012-2022
MT	DEER LODGE, MONTANA AGRIMET WE	87-3211	HL Y	46.3355	-112.7667	4680	USBR	1998-2022
MT	DEER LODGE, MONTANA AGRIMET WE	87-3211	15M	46.3355	-112.7667	1426	USBR	2012-2022
ID	FAIRFIELD, IDAHO AGRIMET WEATH	87-3331	15M	43.3130	-114.8222	1536	USBR	1987-2022
ID	FAIRFIELD, IDAHO AGRIMET WEATH	87-3331	HL Y	43.3130	-114.8222	5038	USBR	1987-2022
ID	FORT HALL, IDAHO AGRIMET WEATH	87-3351	15M	43.0714	-112.4311	1355	USBR	2012-2022
ID	FORT HALL, IDAHO AGRIMET WEATH	87-3351	HL Y	43.0714	-112.4311	4445	USBR	1993-2022
MT	GIBSON DAM WEATHER STATION	87-3411	15M	47.6017	-112.7617	4590	USBR	1990-2022
MT	GIBSON DAM WEATHER STATION	87-3411	HL Y	47.6017	-112.7617	4590	USBR	1990-2022
ID	GLENNS FERRY, IDAHO AGRIMET WE	87-3431	HL Y	42.8667	-115.3569	3025	USBR	1993-2022
ID	GLENNS FERRY, IDAHO AGRIMET WE	87-3431	15M	42.8667	-115.3569	922	USBR	2012-2022
ID	GRACE, IDAHO AGRIMET WEATHER S	87-3501	HL Y	42.5150	-111.7361	5449	USBR	2014-2022
ID	GRACE, IDAHO AGRIMET WEATHER S	87-3501	15M	42.5150	-111.7361	1661	USBR	2014-2022

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	HUNGRY HORSE DAM WEATHER STATI	87-3621	HL Y	48.3422	-114.0189	3180	USBR	1990-2022
MT	HUNGRY HORSE DAM WEATHER STATI	87-3621	15M	48.3422	-114.0189	3180	USBR	1990-2022
ID	IDAHO CITY	87-3741	HL Y	43.8361	-115.8347	3965	USBR	1982-2022
ID	IDAHO CITY	87-3741	15M	43.8361	-115.8347	3965	USBR	1982-2022
WY	JACKSON WY WEATHER STATION	87-3831	HL Y	43.4856	-110.7613	6230	USBR	1982-2022
WY	JACKSON WY WEATHER STATION	87-3831	15M	43.4856	-110.7613	6230	USBR	1982-2022
ID	NAMPA, IDAHO AGRIMET WEATHER S	87-4321	HL Y	43.4372	-116.6453	2702	USBR	1996-2022
ID	NAMPA, IDAHO AGRIMET WEATHER S	87-4321	15M	43.4372	-116.6453	824	USBR	2012-2022
MT	SAINT IGNATIUS, MONTANA AGRIME	87-4811	HL Y	47.3253	-114.0842	2980	USBR	1991-2022
MT	SAINT IGNATIUS, MONTANA AGRIME	87-4811	15M	47.3253	-114.0842	908	USBR	1991-2022
ID	TWIN FALLS (KIMBERLY) IDAHO AG	87-5221	HL Y	42.5461	-114.3453	3920	USBR	1990-2022
ID	TWIN FALLS (KIMBERLY) IDAHO AG	87-5221	15M	42.5461	-114.3453	1195	USBR	2012-2022
ID	TWIN FALLS (KIMBERLY) IDAHO AG	87-5224	DLY	42.5461	-114.3453	3920	USBR	1990-2022
ID	ORCHARD RANGE SITE	88-0674	HL Y	43.3227	-115.9964	3200	SCAN	1989-2022
ID	ORCHARD RANGE SITE	88-0674	DLY	43.3227	-115.9964	3200	SCAN	1989-2022
MT	TABLE MOUNTAIN	88-0808	HL Y	45.8027	-111.5865	4474	SCAN	1986-2022
MT	TABLE MOUNTAIN	88-0808	DLY	45.8027	-111.5865	4474	SCAN	1986-2022
WY	TORRINGTON #1	88-2018	HL Y	42.0667	-104.1333	4280	SCAN	1994-2022
WY	TORRINGTON #1	88-2018	DLY	42.0667	-104.1333	4280	SCAN	1994-2022
MT	FORT ASSINIBOINE #1	88-2019	DLY	48.4833	-109.8000	2710	SCAN	1994-2022
MT	FORT ASSINIBOINE #1	88-2019	HL Y	48.4833	-109.8000	2710	SCAN	1994-2022
ID	DUBOIS	89-0001	15M	44.2424	-112.2018	5465	INL	1994-2021
ID	SUGAR CITY	89-0005	15M	43.8966	-111.7376	4895	INL	1994-2021
ID	TERRETON	89-0007	15M	43.8417	-112.4183	4792	INL	1994-2021
ID	ROBERTS	89-0010	15M	43.7435	-112.1211	4760	INL	1994-2021
ID	ARCO	89-0015	15M	43.6245	-113.2971	5290	INL	1994-2021
ID	CENTRAL FACILITIES AREA BUILDI	89-0016	DLY	43.5326	-112.9477	4950	INL	1950-2021
ID	CENTRAL FACILITIES AREA BUILDI	89-0016	15M	43.5326	-112.9477	4950	INL	1994-2021

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	MATERIALS AND FUELS COMPLEX	89-0017	15M	43.5941	-112.6517	5143	INL	1994-2021
ID	GRID 3/INTEC	89-0018	15M	43.5897	-112.9399	4897	INL	1994-2021
ID	RADIOACTIVE WASTE MANAGEMENT C	89-0023	15M	43.5034	-113.0460	5025	INL	1994-2021
ID	IDAHO FALLS	89-0024	15M	43.5041	-112.0501	4709	INL	1994-2021
ID	ATOMIC CITY	89-0025	15M	43.4437	-112.8157	5058	INL	1994-2021
ID	TABER	89-0028	15M	43.3187	-112.6918	4730	INL	1994-2021
ID	RICHFIELD	89-0031	15M	43.0606	-114.1346	4315	INL	1994-2021
ID	FORT HALL	89-0032	15M	43.0220	-112.4120	4452	INL	1994-2021
ID	ABERDEEN	89-0033	15M	42.9549	-112.8245	4392	INL	1994-2021
WY	LABARGE 2S	90-0024	DLY	42.2410	-110.1880	6575	WACNET	2016-2022
WY	LABARGE 2S	90-0024	HLY	42.2410	-110.1880	6575	WACNET	2016-2022
WY	LINGLE 2W	90-0025	DLY	42.1290	-104.3900	4163	WACNET	2008-2022
WY	LINGLE 2W	90-0025	HLY	42.1290	-104.3900	4163	WACNET	2008-2022
WY	LYMAN 1SW	90-0027	HLY	41.3170	-110.3107	6723	WACNET	2010-2022
WY	LYMAN 1SW	90-0027	DLY	41.3170	-110.3107	6723	WACNET	2010-2022
MT	MISSOULA 2 WNW	97-0001	DLY	46.8878	-114.0367	3172	NCEI	1893-1966
MT	KALISPELL WB	97-0002	DLY	48.2000	-114.3167	2956	NCEI	1896-1948
ID	BOISE WB CITY	98-0001	DLY	43.6167	-116.2000	2713	NCEI	1878-1939
WY	CHEYENNE WBO	98-0002	DLY	41.1371	-104.8192	6128	NCEI	1871-1914
WY	LANDER WB CITY	98-0003	DLY	42.8346	-108.7328	5372	NCEI	1891-1946
WY	SHERIDAN WB CITY	98-0004	DLY	44.7935	-106.9556	3790	NCEI	1907-1940
WY	LANDER HUNT FLD AP	98-0020	DLY	42.8153	-108.7261	5592	NCEI	1946-1947
WY	SHERIDAN CO AP	98-0024	DLY	44.7694	-106.9689	3945	NCEI	1940-1947
MT	BILLINGS INTL AP	98-0026	DLY	45.8069	-108.5422	3581	NCEI	1934-1948
MT	HAVRE WB CITY	98-0027	DLY	48.5667	-109.6667	2493	NCEI	1880-1892
MT	HELENA WB CITY	98-0105	DLY	46.5833	-112.0333	4144	NCEI	1880-1892
MT	HERON 2 NW	98-4084	DLY	48.0800	-116.0014	2240	NCEI	2009-2022
ID	LEWISTON	98-5230	DLY	46.4167	-117.0333	708	NCEI	1881-1905

State	Station Name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ID	POCATELLO CITY	98-7210	DLY	42.8750	-112.4469	4460	NCEI	2001-2004
ID	POCATELLO WB CITY	99-0001	DLY	42.8611	-112.4507	4477	NCEI	1899-1949
WY	BIG HORN	99-0680	DLY	44.6828	-107.0089	4208	NCEI	1984-2005
MT	BOULDER	99-1008	DLY	46.2311	-112.1139	4904	NCEI	1891-1948
MT	BUSBY	99-1297	DLY	45.5397	-106.9597	3430	NCEI	1944-1948
WY	CASPER	99-1565	DLY	42.8500	-106.2667	5203	NCEI	1937-1943
WY	CASPER	99-1566	DLY	42.8500	-106.2667	5203	NCEI	1913-1948
ID	FORT SHERMAN	99-1956	DLY	47.6822	-116.7967	2133	NCEI	1894-1898
WY	ELK MOUNTAIN	99-2995	DLY	41.6878	-106.4136	7265	NCEI	1905-1948
WY	FORT LARAMIE	99-3490	DLY	42.3833	-104.5333	4764	NCEI	1931-1951
ID	SHEEP HILL	99-4450	DLY	43.7167	-116.0000	5003	NCEI	1909-1948
WY	KIRTLEY	99-5170	DLY	42.8333	-104.1167	5072	NCEI	1904-1948
WY	KNOWLES	99-5226	DLY	44.7500	-104.3667	4505	NCEI	1909-1943
WY	LYMAN	99-5836	DLY	41.3333	-110.3000	6706	NCEI	1922-1943
WY	MIDDLE FORK	99-6185	DLY	42.7526	-108.8054	6283	NCEI	1916-1948
WY	PINE BLUFFS	99-7235	DLY	41.1833	-104.0667	5074	NCEI	1900-1918
MT	SCOBIE	99-7424	DLY	48.7833	-105.4167	2458	NCEI	1938-1948
WY	RAWLINS AP	99-7533	DLY	41.8064	-107.1952	6769	NCEI	1898-1940
WY	REDBIRD	99-7555	DLY	43.2450	-104.2881	3890	NCEI	1941-1948
WY	SARATOGA	99-7990	DLY	41.4528	-106.8053	6790	NCEI	1900-1948
WY	WHALEN DAM USBR	99-9604	DLY	42.2494	-104.6281	4294	NCEI	1991-2011
WY	YELLOWSTONE PARK MAMMOTH	99-9905	DLY	44.9767	-110.6964	6195	NCEI	1887-1941

Table A.1.4. Same as Table A.1.3, but for stations in Colorado (CO), Nebraska (NE), Nevada (NV), North Dakota (ND), Oregon (OR), South Dakota (SD), Utah (UT), Washington (WA), and the Canadian provinces of Alberta (AB), British Columbia (BC), and Saskatchewan (SK).

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
CO	ALLENSPARK 2SE	05-0183	DLY	40.1881	-105.5019	8215	NCEI	09/1944 - 12/1993
CO	ALLENSPARK 2SE	05-0183	HLY	40.1881	-105.5019	8243	NCEI	08/1948 - 12/2013
CO	ALLENSPARK 2SE	05-0183	15M	40.1881	-105.5019	8243	NCEI	05/1973 - 12/2013
CO	BOULDER 2	05-0843	HLY	40.0339	-105.2814	5427	NCEI	08/1948 - 12/2013
CO	BOULDER 2	05-0843	15M	40.0339	-105.2814	5427	NCEI	05/1971 - 12/2013
CO	BOULDER 2	05-0843	DLY	40.0339	-105.2811	5415	NCEI	06/1948 - 09/1951
CO	BRIGGSDALE	05-0945	HLY	40.6344	-104.3286	4862	NCEI	08/1948 - 10/1966
CO	BRIGGSDALE	05-0945	DLY	40.6344	-104.3286	4862	NCEI	06/1948 - 10/2023
CO	BROWNS PARK REFUGE	05-1017	DLY	40.8008	-108.9172	5354	NCEI	02/1966 - 07/1997
CO	BUCKHORN MTN 1 E	05-1060	DLY	40.6158	-105.2969	7400	NCEI	06/1988 - 10/2023
CO	CRAIG	05-1928	HLY	40.5333	-107.5500	6280	NCEI	08/1948 - 09/1976
CO	CRAIG	05-1928	DLY	40.5333	-107.5500	6280	NCEI	01/1894 - 10/1976
CO	CRAIG ASOS	05-1931	HLY	40.4928	-107.5242	6190	NCEI	03/2012 - 12/2013
CO	CRAIG 4SW	05-1932	DLY	40.4517	-107.5906	6496	NCEI	03/1977 - 10/2023
CO	DINOSAUR NM	05-2286	HLY	40.2442	-108.9725	5960	NCEI	06/1965 - 12/2013
CO	DINOSAUR NM	05-2286	15M	40.2442	-108.9725	5960	NCEI	01/1984 - 12/2013
CO	DINOSAUR NM	05-2286	DLY	40.2442	-108.9725	5960	NCEI	04/1965 - 08/2015
CO	DRAKE	05-2354	HLY	40.4333	-105.3394	6170	NCEI	02/1975 - 12/2013
CO	DRAKE	05-2354	15M	40.4333	-105.3394	6170	NCEI	02/1975 - 12/2013
CO	ESTES PARK	05-2759	DLY	40.3767	-105.4858	7480	NCEI	12/1895 - 10/2023
CO	ESTES PARK	05-2759	HLY	40.3767	-105.4858	7480	NCEI	06/1978 - 05/1994
CO	ESTES PARK	05-2759	15M	40.3767	-105.4858	7480	NCEI	06/1978 - 05/1994
CO	FT COLLINS	05-3005	DLY	40.5764	-105.0858	5004	NCEI	11/1892 - 10/2023

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
CO	FT COLLINS	05-3005	HL Y	40.5764	-105.0858	5004	NCEI	08/1948 - 12/2013
CO	FT COLLINS	05-3005	15M	40.5764	-105.0858	5004	NCEI	01/1984 - 12/2013
CO	FT COLLINS 4 E	05-3006	DLY	40.5756	-105.0236	4920	NCEI	08/1990 - 07/2021
CO	FT COLLINS 9 NW	05-3007	15M	40.6647	-105.2233	5220	NCEI	02/1975 - 12/2013
CO	FT COLLINS 9 NW	05-3007	HL Y	40.6647	-105.2233	5220	NCEI	02/1975 - 12/2013
CO	FT LUPTON 2 SE	05-3027	DLY	40.0667	-104.7833	5023	NCEI	07/1910 - 03/1976
CO	FT MORGAN	05-3038	DLY	40.2569	-103.8700	4376	NCEI	10/1896 - 09/2023
CO	GRAND LAKE 1 NW	05-3496	15M	40.2669	-105.8322	8720	NCEI	01/2002 - 12/2013
CO	GRAND LAKE 1 NW	05-3496	HL Y	40.2669	-105.8322	8720	NCEI	01/2002 - 12/2013
CO	GRAND LAKE 1 NW	05-3496	DLY	40.2669	-105.8322	8720	NCEI	08/1907 - 10/2023
CO	GRAND LAKE 6 SSW	05-3500	15M	40.1850	-105.8667	8288	NCEI	01/1984 - 12/2013
CO	GRAND LAKE 6 SSW	05-3500	HL Y	40.1850	-105.8667	8288	NCEI	08/1948 - 12/2013
CO	GRAND LAKE 6 SSW	05-3500	DLY	40.1850	-105.8667	8288	NCEI	06/1948 - 10/2023
CO	GREELEY	05-3546	DLY	40.4167	-104.6833	4652	NCEI	11/1892 - 02/1967
CO	GREELEY	05-3546	15M	40.4167	-104.6833	4652	NCEI	10/1979 - 12/1988
CO	GREELEY	05-3546	HL Y	40.4167	-104.6833	4652	NCEI	08/1948 - 12/1988
CO	GREELEY UNC	05-3553	DLY	40.4022	-104.6992	4715	NCEI	12/1966 - 10/2023
CO	GREELEY UNC	05-3553	15M	40.4022	-104.6992	4715	NCEI	07/1985 - 12/2013
CO	GREELEY UNC	05-3553	HL Y	40.4022	-104.6992	4715	NCEI	07/1985 - 12/2013
CO	GROVER 10 W	05-3643	DLY	40.8500	-104.4000	5090	NCEI	12/1892 - 07/1970
CO	HAMILTON	05-3738	DLY	40.3722	-107.6117	6230	NCEI	05/1947 - 04/2007
CO	HAMILTON 1SSE	05-3742	DLY	40.3581	-107.6081	6380	NCEI	06/2007 - 12/2012
CO	HAYDEN	05-3867	DLY	40.4925	-107.2547	6467	NCEI	11/1908 - 10/2023
CO	HOHNHOLZ RCH	05-4054	DLY	40.9683	-105.9986	7797	NCEI	10/1985 - 07/2020
CO	HOT SULPHUR SPGS 2 SW	05-4129	HL Y	40.0500	-106.1500	7605	NCEI	06/1953 - 02/1984

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
CO	HOT SULPHUR SPGS 2 SW	05-4129	DLY	40.0500	-106.1500	7605	NCEI	10/1941 - 06/1981
CO	HOT SULPHUR SPGS 2 SW	05-4129	15M	40.0500	-106.1500	7605	NCEI	06/1979 - 02/1984
CO	HOURLASS RSVR	05-4135	DLY	40.5831	-105.6319	9520	NCEI	07/1988 - 09/2021
CO	KAUFFMAN 4 SSE	05-4460	DLY	40.8500	-103.9000	5250	NCEI	07/1936 - 02/1987
CO	KREMMLING	05-4664	DLY	40.0575	-106.3681	7460	NCEI	11/1907 - 09/2023
CO	KREMMLING	05-4664	HLY	40.0575	-106.3681	7460	NCEI	08/1948 - 04/1953
CO	LONGMONT 2 ESE	05-5116	DLY	40.1694	-105.0775	4950	NCEI	11/1892 - 10/2023
CO	LONGMONT 6 NW	05-5121	DLY	40.2467	-105.1464	5150	NCEI	06/1948 - 09/1951
CO	LONGMONT 6 NW	05-5121	HLY	40.2467	-105.1464	5150	NCEI	08/1948 - 12/2013
CO	LONGMONT 6 NW	05-5121	15M	40.2467	-105.1464	5150	NCEI	05/1971 - 12/2013
CO	LOVELAND 2N	05-5236	DLY	40.4350	-105.0850	5080	NCEI	07/1989 - 10/2023
CO	MAYBELL	05-5446	DLY	40.5158	-108.0947	5944	NCEI	04/1958 - 08/2023
CO	MEEKER	05-5484	15M	40.0358	-107.9058	6229	NCEI	01/1993 - 12/2013
CO	MEEKER	05-5484	DLY	40.0358	-107.9058	6229	NCEI	11/1892 - 08/2023
CO	MEEKER	05-5484	HLY	40.0358	-107.9058	6229	NCEI	08/1948 - 12/2013
CO	MEEKER ASOS	05-5485	HLY	40.0442	-107.8886	6366	NCEI	03/2012 - 12/2013
CO	MEEKER #2	05-5487	15M	40.0333	-107.9167	6347	NCEI	01/1984 - 09/1992
CO	MEEKER #2	05-5487	HLY	40.0333	-107.9167	6347	NCEI	10/1970 - 09/1992
CO	MEEKER #2	05-5487	DLY	40.0333	-107.9167	6347	NCEI	08/1970 - 08/1992
CO	NEDERLAND 5 NNW	05-5881	HLY	40.0361	-105.5461	10010	NCEI	10/1996 - 12/2013
CO	NEDERLAND 5 NNW	05-5881	15M	40.0361	-105.5461	10010	NCEI	10/1996 - 12/2013
CO	NEW RAYMER	05-5922	DLY	40.6089	-103.8461	4783	NCEI	06/1948 - 11/2004
CO	NEW RAYMER	05-5922	HLY	40.6089	-103.8461	4783	NCEI	08/1948 - 12/2005
CO	NEW RAYMER	05-5922	15M	40.6089	-103.8461	4783	NCEI	05/1971 - 12/2005
CO	NEW RAYMER 21 N	05-5934	DLY	40.9319	-103.8678	5180	NCEI	04/1987 - 10/2023

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
CO	NEW RAYMER 21 N	05-5934	HLY	40.9319	-103.8678	5180	NCEI	02/2005 - 12/2013
CO	NEW RAYMER 21 N	05-5934	15M	40.9319	-103.8678	5180	NCEI	02/2005 - 12/2013
CO	NORTHGATE	05-5982	15M	40.9367	-106.3392	7830	NCEI	03/1979 - 12/2013
CO	NORTHGATE	05-5982	HLY	40.9367	-106.3392	7830	NCEI	03/1979 - 12/2013
CO	NUNN	05-6023	15M	40.7064	-104.7833	5196	NCEI	04/1973 - 12/2013
CO	NUNN	05-6023	DLY	40.7064	-104.7833	5196	NCEI	06/1948 - 01/1997
CO	NUNN	05-6023	HLY	40.7064	-104.7833	5196	NCEI	08/1948 - 12/2013
CO	OAK CREEK 7WSW	05-6040	DLY	40.2406	-107.0969	8205	NCEI	10/2005 - 07/2011
CO	PYRAMID	05-6797	DLY	40.2411	-107.0864	8009	NCEI	09/1910 - 06/2005
CO	RANGELY 1E	05-6832	DLY	40.0889	-108.7728	5277	NCEI	05/1894 - 10/2023
CO	RED FEATHER LAKES	05-6921	DLY	40.7978	-105.5856	8300	NCEI	06/1991 - 04/1997
CO	RED FEATHER LAKES 2 SE	05-6925	DLY	40.7833	-105.5500	8165	NCEI	07/1941 - 06/1990
CO	RUSTIC 9WSW	05-7296	15M	40.7008	-105.7119	7697	NCEI	10/1991 - 12/2013
CO	RUSTIC 9WSW	05-7296	DLY	40.7022	-105.7106	7700	NCEI	01/1993 - 10/2023
CO	RUSTIC 9WSW	05-7296	HLY	40.7008	-105.7119	7697	NCEI	10/1991 - 12/2013
CO	SILVER LAKE	05-7648	HLY	40.0328	-105.5758	10360	NCEI	01/1977 - 08/1996
CO	SILVER LAKE	05-7648	15M	40.0328	-105.5758	10360	NCEI	01/1977 - 08/1996
CO	SILVER LAKE	05-7648	DLY	40.0328	-105.5758	10360	NCEI	04/1910 - 11/1955
CO	SPICER	05-7848	DLY	40.4725	-106.4475	8385	NCEI	09/1909 - 01/2003
CO	STEAMBOAT SPRINGS	05-7936	DLY	40.4883	-106.8233	6866	NCEI	12/1892 - 10/2023
CO	STERLING	05-7950	DLY	40.6278	-103.2083	3974	NCEI	01/1895 - 07/2010
CO	WALDEN	05-8756	DLY	40.7442	-106.2792	8056	NCEI	11/1896 - 10/2023
CO	WATERDALE	05-8839	DLY	40.4256	-105.2103	5230	NCEI	11/1901 - 10/2023
CO	WILLIAMS FORK DAM	05-9096	DLY	40.0375	-106.2039	7618	NCEI	04/1982 - 10/2023
CO	WILLIAMS FORK DAM	05-9096	15M	40.0375	-106.2039	7618	NCEI	06/1982 - 12/2013

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
CO	WILLIAMS FORK DAM	05-9096	HLY	40.0375	-106.2039	7618	NCEI	06/1982 - 12/2013
CO	WINDSOR	05-9147	DLY	40.4667	-104.9000	4781	NCEI	05/1941 - 03/1990
CO	YAMPA	05-9265	DLY	40.1564	-106.9108	7857	NCEI	12/1908 - 06/2023
NE	AGATE 3 E	25-0030	DLY	42.4244	-103.7347	4670	NCEI	02/1900 - 10/2023
NE	BRIDGEPORT	25-1145	HLY	41.6681	-103.1039	3666	NCEI	08/1948 - 12/2013
NE	BRIDGEPORT	25-1145	DLY	41.6681	-103.1039	3666	NCEI	03/1897 - 07/2022
NE	BRIDGEPORT	25-1145	15M	41.6681	-103.1039	3666	NCEI	05/1971 - 12/2013
NE	CHADRON 3SW	25-1575	DLY	42.8083	-103.0533	3383	NCEI	06/1894 - 10/2023
NE	CHADRON 3SW	25-1575	HLY	42.8083	-103.0533	3383	NCEI	08/1948 - 12/2013
NE	CHADRON 3SW	25-1575	15M	42.8083	-103.0533	3383	NCEI	01/1984 - 12/2013
NE	CRAWFORD	25-1973	DLY	42.7000	-103.4167	3670	NCEI	09/1984 - 05/2000
NE	FT ROBINSON	25-3015	DLY	42.6656	-103.4617	3812	NCEI	11/1901 - 07/2018
NE	HARRISBURG 12WNW	25-3605	DLY	41.6331	-103.9542	4550	NCEI	05/1911 - 10/2023
NE	HARRISON	25-3615	DLY	42.6858	-103.8842	4850	NCEI	12/1892 - 09/2023
NE	HARRISON	25-3615	HLY	42.6858	-103.8842	4850	NCEI	08/1948 - 03/1951
NE	HARRISON 9W	25-3620	DLY	42.6544	-104.0467	4710	NCEI	09/1948 - 09/1951
NE	HARRISON 9W	25-3620	15M	42.6544	-104.0467	4710	NCEI	11/1982 - 05/2010
NE	HARRISON 9W	25-3620	HLY	42.6544	-104.0467	4710	NCEI	11/1948 - 05/2010
NE	HEMINGFORD	25-3755	DLY	42.3208	-103.0733	4270	NCEI	11/1963 - 08/2023
NE	KIMBALL 2NE	25-4440	DLY	41.2453	-103.6344	4708	NCEI	11/1892 - 09/2017
NE	LYMAN	25-5020	DLY	41.9169	-104.0358	4050	NCEI	10/1924 - 09/2006
NE	MINATARE DAM (USBR)	25-5555	DLY	41.9178	-103.4842	4144	NCEI	11/1924 - 10/2023
NE	MITCHELL 5E	25-5590	DLY	41.9481	-103.7008	4080	NCEI	04/1909 - 10/2017
NE	POTTER	25-6880	DLY	41.2183	-103.3206	4430	NCEI	05/1895 - 05/2004
NE	SCOTTSBLUFF AP	25-7665	HLY	41.8706	-103.5931	3945	NCEI	09/1948 - 12/2013

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
NV	CONTACT	26-1905	15M	41.7706	-114.7528	5350	NCEI	04/1972 - 04/2001
NV	CONTACT	26-1905	DLY	41.7706	-114.7528	5350	NCEI	05/1948 - 10/1999
NV	CONTACT	26-1905	HLY	41.7706	-114.7528	5350	NCEI	07/1948 - 04/2001
NV	DEETH	26-2189	DLY	41.0661	-115.2711	5340	NCEI	10/1951 - 05/2006
NV	GIBBS RCH - JARBIDGE 24SE	26-3114	DLY	41.5697	-115.2111	5960	NCEI	09/1952 - 10/2023
NV	JACKPOT	26-4016	DLY	41.9828	-114.6586	5233	NCEI	01/1986 - 10/2023
NV	MCDERMITT	26-4935	15M	41.9953	-117.7200	4430	NCEI	02/1972 - 09/2011
NV	MCDERMITT	26-4935	HLY	41.9953	-117.7200	4430	NCEI	03/1950 - 08/2011
NV	MCDERMITT	26-4935	DLY	41.9953	-117.7200	4430	NCEI	11/1891 - 10/2023
NV	METROPOLIS	26-5092	15M	41.2833	-115.0167	5800	NCEI	07/1971 - 01/1996
NV	METROPOLIS	26-5092	HLY	41.2833	-115.0167	5800	NCEI	03/1968 - 01/1996
NV	METROPOLIS	26-5092	DLY	41.2833	-115.0167	5800	NCEI	06/1965 - 09/1995
NV	MONTELLO 2NE	26-5352	DLY	41.2781	-114.1706	4830	NCEI	02/1895 - 05/2017
NV	MTN CITY RS	26-5392	DLY	41.8375	-115.9653	5650	NCEI	12/1954 - 11/1999
NV	NORTH FORK MNTC STN	26-5691	HLY	41.4833	-115.8167	6204	NCEI	07/1948 - 10/1955
NV	NORTH FORK MNTC STN	26-5691	DLY	41.4833	-115.8167	6204	NCEI	09/1909 - 10/1970
NV	OROVADA 3 W	26-5818	DLY	41.5683	-117.8389	4200	NCEI	06/1911 - 10/2023
NV	OWYHEE	26-5869	15M	41.9500	-116.1000	5397	NCEI	12/1979 - 06/1985
NV	OWYHEE	26-5869	HLY	41.9500	-116.1000	5397	NCEI	07/1948 - 06/1985
NV	OWYHEE	26-5869	DLY	41.9500	-116.1000	5397	NCEI	05/1948 - 07/2017
NV	PARADISE VALLEY 1 NW	26-6005	HLY	41.5022	-117.5478	4560	NCEI	07/1951 - 01/1964
NV	PARADISE VALLEY 1 NW	26-6005	DLY	41.5022	-117.5478	4560	NCEI	12/1893 - 04/2010
NV	PEQUOP	26-6148	HLY	41.0667	-114.5333	6033	NCEI	07/1948 - 03/1989
NV	PEQUOP	26-6148	15M	41.0667	-114.5333	6033	NCEI	05/1971 - 03/1989
NV	PEQUOP	26-6148	DLY	41.0667	-114.5333	6033	NCEI	05/1948 - 07/1985

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
NV	SAN JACINTO	26-7284	DLY	41.8833	-114.6833	5203	NCEI	07/1904 - 12/1947
NV	TUSCARORA	26-8346	DLY	41.3144	-116.2225	6170	NCEI	03/1957 - 05/2017
NV	WELLS	26-8988	DLY	41.1006	-114.9736	5700	NCEI	02/1895 - 10/2023
NV	WELLS	26-8988	15M	41.1006	-114.9736	5700	NCEI	05/1971 - 03/2005
NV	WELLS	26-8988	HLY	41.1006	-114.9736	5700	NCEI	07/1948 - 03/2005
NV	WILD HORSE RSVR	26-9072	DLY	41.6358	-115.8008	6239	NCEI	09/1982 - 09/2023
NV	WILD HORSE RSVR	26-9072	HLY	41.6358	-115.8008	6239	NCEI	12/1985 - 07/2012
NV	WILD HORSE RSVR	26-9072	15M	41.6358	-115.8008	6239	NCEI	12/1985 - 07/2012
ND	ALEXANDER 4 NNW	32-0096	DLY	47.9022	-103.6608	2140	NCEI	04/1916 - 11/2013
ND	AMBROSE 3 N	32-0189	DLY	48.9975	-103.4878	2027	NCEI	03/1950 - 10/2023
ND	AMBROSE 3 N	32-0189	HLY	48.9975	-103.4878	2027	NCEI	11/1977 - 12/2013
ND	AMBROSE 3 N	32-0189	15M	48.9975	-103.4878	2027	NCEI	11/1977 - 12/2013
ND	AMIDON	32-0209	DLY	46.4819	-103.3222	2910	NCEI	10/1920 - 03/2012
ND	AMIDON	32-0209	HLY	46.4819	-103.3222	2910	NCEI	08/1949 - 06/1958
ND	BEACH	32-0590	DLY	46.9283	-104.0158	2800	NCEI	06/1906 - 06/2011
ND	BEACH	32-0590	HLY	46.9283	-104.0158	2800	NCEI	12/1949 - 11/1957
ND	BOWMAN	32-0995	15M	46.1936	-103.3714	2983	NCEI	05/1971 - 12/2013
ND	BOWMAN	32-0995	HLY	46.1936	-103.3714	2983	NCEI	08/1948 - 12/2013
ND	BOWMAN	32-0995	DLY	46.1936	-103.3714	2983	NCEI	11/1914 - 10/2023
ND	CROSBY	32-1871	HLY	48.9144	-103.2978	1959	NCEI	06/1950 - 06/1958
ND	CROSBY	32-1871	DLY	48.9144	-103.2978	1959	NCEI	02/1907 - 07/2023
ND	EPPING	32-2735	DLY	48.2833	-103.3667	2220	NCEI	02/1908 - 11/1996
ND	FAIRFIELD	32-2809	DLY	47.1906	-103.2247	2750	NCEI	06/1928 - 02/2014
ND	FORTUNA 1 W	32-3196	DLY	48.9081	-103.8056	2350	NCEI	08/1963 - 08/2023
ND	FRYBURG 1 SSE	32-3277	HLY	46.8667	-103.3000	2733	NCEI	08/1950 - 06/1958

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ND	FRYBURG 1 SSE	32-3277	DLY	46.8667	-103.3000	2733	NCEI	01/1918 - 12/1952
ND	GRASSY BUTTE	32-3696	DLY	47.4000	-103.2333	2661	NCEI	04/1950 - 12/1952
ND	GRASSY BUTTE	32-3696	HLY	47.4000	-103.2333	2661	NCEI	06/1950 - 11/1961
ND	GRASSY BUTTE 2ENE	32-3705	DLY	47.4011	-103.2072	2670	NCEI	06/1987 - 08/2023
ND	GRENORA	32-3736	DLY	48.6167	-103.9333	2129	NCEI	08/1906 - 06/1990
ND	MARMARTH	32-5573	DLY	46.3000	-103.9167	2713	NCEI	11/1908 - 03/1957
ND	MARMARTH	32-5575	HLY	46.2958	-103.9200	2709	NCEI	07/1950 - 06/1981
ND	MARMARTH	32-5575	DLY	46.2958	-103.9200	2709	NCEI	05/1950 - 07/2016
ND	MARMARTH	32-5575	15M	46.2958	-103.9200	2709	NCEI	04/1971 - 06/1981
ND	MEDORA	32-5803	DLY	46.9169	-103.5250	2270	NCEI	11/1892 - 12/1952
ND	MEDORA	32-5803	HLY	46.9167	-103.5167	2270	NCEI	07/1951 - 09/1955
ND	MEDORA	32-5813	DLY	46.9161	-103.5264	2268	NCEI	05/1948 - 10/2023
ND	MEDORA	32-5813	HLY	46.9161	-103.5264	2268	NCEI	10/1955 - 11/1957
ND	TROTTERS 6 SE	32-8807	DLY	47.3000	-103.8667	2431	NCEI	11/1925 - 10/1958
ND	TROTTERS 3 SSE	32-8812	15M	47.2842	-103.9006	2420	NCEI	10/1976 - 09/2011
ND	TROTTERS 3 SSE	32-8812	HLY	47.2842	-103.9006	2420	NCEI	01/1950 - 08/2011
ND	TROTTERS 3 SSE	32-8812	DLY	47.2842	-103.9006	2420	NCEI	10/1949 - 08/2011
ND	WATFORD CITY	32-9233	DLY	47.8039	-103.2892	2170	NCEI	11/1911 - 12/2022
ND	WATFORD CITY 14S	32-9246	DLY	47.6000	-103.2597	2027	NCEI	04/1951 - 09/2021
ND	WILDROSE 3NW	32-9400	DLY	48.6631	-103.2131	2227	NCEI	06/1928 - 06/2012
ND	WILLISTON 5SW	32-9420	DLY	48.1081	-103.7142	1830	NCEI	09/1908 - 07/1948
ND	WILLISTON	32-9421	DLY	48.1500	-103.6300	1872	NCEI	01/2014 - 10/2023
ND	WILLISTON SLOULIN FLD	32-9425	HLY	48.1739	-103.6367	1902	NCEI	08/1948 - 12/2013
ND	WILLISTON EXP FARM	32-9430	DLY	48.1375	-103.7372	2105	NCEI	05/1956 - 10/2023
OR	ADRIAN	35-0041	DLY	43.7333	-117.0667	2231	NCEI	05/1909 - 10/1972

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
OR	BAKER #2	35-0409	15M	44.7703	-117.8250	3467	NCEI	09/1979 - 10/2011
OR	BAKER #2	35-0409	HLY	44.7703	-117.8250	3467	NCEI	10/1955 - 09/2011
OR	BAKER CITY AP	35-0412	HLY	44.8428	-117.8086	3361	NCEI	05/1949 - 12/2013
OR	BAKER KBKR	35-0417	HLY	44.7667	-117.8333	3445	NCEI	07/1948 - 10/1955
OR	CORNUCOPIA	35-1852	DLY	45.0000	-117.2000	4705	NCEI	05/1909 - 10/1972
OR	COVE	35-1924	DLY	45.3000	-117.8000	2920	NCEI	08/1973 - 07/1988
OR	COVE 1 E	35-1926	DLY	45.3064	-117.7967	3062	NCEI	12/1916 - 05/2023
OR	DANNER	35-2135	DLY	42.9447	-117.3389	4225	NCEI	04/1929 - 01/2011
OR	ENTERPRISE RS	35-2672	DLY	45.4256	-117.2972	3815	NCEI	10/1931 - 10/1981
OR	ENTERPRISE RS	35-2672	HLY	45.4256	-117.2972	3815	NCEI	12/1990 - 12/2013
OR	ENTERPRISE RS	35-2672	15M	45.4256	-117.2972	3815	NCEI	12/1990 - 12/2013
OR	ENTERPRISE 2 S	35-2675	DLY	45.4000	-117.2667	3880	NCEI	12/1981 - 09/1995
OR	ENTERPRISE 20 NNE	35-2678	DLY	45.7083	-117.1528	3280	NCEI	12/1968 - 04/2010
OR	HALFWAY	35-3604	DLY	44.8772	-117.1094	2653	NCEI	03/1936 - 10/2023
OR	HALFWAY	35-3604	HLY	44.8772	-117.1094	2653	NCEI	10/1974 - 12/2013
OR	HALFWAY	35-3604	15M	44.8772	-117.1094	2653	NCEI	10/1974 - 12/2013
OR	HARPER	35-3666	DLY	43.8667	-117.6167	2513	NCEI	08/1919 - 07/1975
OR	HUNTINGTON	35-4098	DLY	44.3564	-117.2550	2110	NCEI	12/1900 - 07/2016
OR	IMNAHA	35-4147	DLY	45.5622	-116.8331	1968	NCEI	12/1949 - 09/1951
OR	IMNAHA	35-4147	HLY	45.5622	-116.8331	1968	NCEI	07/1948 - 12/2013
OR	IMNAHA	35-4147	15M	45.5622	-116.8331	1968	NCEI	11/1974 - 12/2013
OR	IRONSIDE 2 W	35-4175	DLY	44.3247	-117.9964	3915	NCEI	09/1955 - 07/2004
OR	JORDAN VALLEY	35-4321	HLY	42.9792	-117.0533	4390	NCEI	10/1948 - 12/2013
OR	JORDAN VALLEY	35-4321	DLY	42.9792	-117.0533	4390	NCEI	04/1913 - 09/1951
OR	JORDAN VALLEY	35-4321	15M	42.9792	-117.0533	4390	NCEI	01/1984 - 12/2013

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
OR	JOSEPH	35-4329	DLY	45.3497	-117.2242	4184	NCEI	11/1892 - 10/2023
OR	JOSEPH	35-4329	HLY	45.3497	-117.2242	4184	NCEI	10/1974 - 11/1990
OR	JOSEPH	35-4329	15M	45.3497	-117.2242	4184	NCEI	10/1974 - 11/1990
OR	MALHEUR BRANCH EXP STN	35-5160	DLY	43.9794	-117.0247	2260	NCEI	05/1942 - 12/2022
OR	MASON DAM	35-5258	DLY	44.6719	-117.9942	3900	NCEI	12/1968 - 12/2000
OR	MC DERMITT 26 N	35-5335	DLY	42.4106	-117.8656	4464	NCEI	09/1955 - 06/2019
OR	NYSSA	35-6179	DLY	43.8764	-116.9903	2175	NCEI	09/1937 - 12/2020
OR	ONTARIO KSRV	35-6294	15M	44.0439	-116.9717	2145	NCEI	01/1984 - 02/2012
OR	ONTARIO KSRV	35-6294	HLY	44.0439	-116.9717	2145	NCEI	10/1948 - 02/2012
OR	ONTARIO KSRV	35-6294	DLY	44.0439	-116.9717	2145	NCEI	10/1903 - 02/2011
OR	OWYHEE DAM	35-6405	DLY	43.6500	-117.2467	2400	NCEI	12/1934 - 10/2023
OR	OWYHEE DAM	35-6405	HLY	43.6500	-117.2467	2400	NCEI	02/1961 - 09/1986
OR	OWYHEE DAM	35-6405	15M	43.6500	-117.2467	2400	NCEI	01/1984 - 09/1986
OR	PINE	35-6652	DLY	44.8583	-117.0926	2600	NCEI	09/1901 - 08/1905
OR	RICHLAND	35-7160	HLY	44.7656	-117.1597	2215	NCEI	10/1948 - 05/1982
OR	RICHLAND	35-7160	DLY	44.7656	-117.1597	2215	NCEI	12/1892 - 05/2015
OR	ROCK CREEK	35-7250	DLY	44.9094	-118.0625	4012	NCEI	02/1920 - 05/2010
OR	ROCKVILLE 5 N	35-7277	DLY	43.3636	-117.1142	3670	NCEI	09/1963 - 12/2012
OR	ROME 2 NW	35-7310	DLY	42.8592	-117.6569	3405	NCEI	10/1950 - 09/2023
OR	SHEAVILLE 1 SE	35-7736	DLY	43.1211	-117.0392	4620	NCEI	07/1931 - 02/2021
OR	UNION	35-8746	15M	45.1986	-117.8647	2777	NCEI	05/1971 - 09/1998
OR	UNION	35-8746	DLY	45.1986	-117.8647	2777	NCEI	08/1911 - 10/2023
OR	UNION	35-8746	HLY	45.1986	-117.8647	2777	NCEI	07/1948 - 07/2010
OR	UNITY	35-8780	DLY	44.4367	-118.1886	4031	NCEI	03/1908 - 11/2007
OR	VALE	35-8797	DLY	43.9814	-117.2439	2240	NCEI	11/1892 - 07/2013

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
OR	WALLOWA	35-8997	DLY	45.5722	-117.5314	2923	NCEI	12/1902 - 08/2023
OR	WESTFALL	35-9176	DLY	43.9903	-117.7183	3040	NCEI	08/1962 - 10/2010
OR	WESTFALL	35-9176	HLY	43.9903	-117.7183	3040	NCEI	02/1961 - 09/1986
OR	WESTFALL	35-9176	15M	43.9903	-117.7183	3040	NCEI	01/1984 - 09/1986
SD	ANGOSTURA DAM	39-0217	DLY	43.3500	-103.4333	3143	NCEI	01/1948 - 05/1971
SD	ANGOSTURA DAM	39-0217	HLY	43.3500	-103.4333	3143	NCEI	07/1949 - 05/1971
SD	ANTELOPE RS	39-0223	DLY	45.5317	-103.3292	2820	NCEI	12/1950 - 01/2008
SD	ARDMORE 1 NW	39-0236	HLY	43.0300	-103.6600	3540	NCEI	07/1949 - 06/1958
SD	ARDMORE 1 NW	39-0236	DLY	43.0300	-103.6600	3540	NCEI	09/1908 - 09/2013
SD	BELLE FOURCHE	39-0559	HLY	44.6714	-103.8511	3020	NCEI	08/1949 - 06/1958
SD	BELLE FOURCHE	39-0559	DLY	44.6714	-103.8511	3020	NCEI	04/1908 - 05/2022
SD	BELLE FOURCHE 22 NNW	39-0565	DLY	44.9906	-103.9339	3200	NCEI	03/1980 - 09/2023
SD	BUFFALO	39-1114	HLY	45.5958	-103.5453	2925	NCEI	08/1948 - 12/2006
SD	BUFFALO	39-1114	DLY	45.5958	-103.5453	2925	NCEI	06/1948 - 09/1951
SD	BUFFALO	39-1114	15M	45.5958	-103.5453	2925	NCEI	12/1977 - 12/2006
SD	BUFFALO GAP	39-1124	DLY	43.4917	-103.3131	3188	NCEI	07/1951 - 02/2006
SD	BUSKALA RCH	39-1246	DLY	44.2167	-103.8167	6110	NCEI	06/1909 - 11/1997
SD	CAMP CROOK	39-1294	15M	45.5489	-103.9744	3120	NCEI	01/1984 - 12/2013
SD	CAMP CROOK	39-1294	HLY	45.5489	-103.9744	3120	NCEI	06/1975 - 12/2013
SD	CAMP CROOK	39-1294	DLY	45.5489	-103.9744	3120	NCEI	11/1892 - 10/2023
SD	CASTLE ROCK 4 NW	39-1504	HLY	45.0100	-103.4828	3150	NCEI	08/1949 - 06/1975
SD	CASTLE ROCK 4 NW	39-1504	DLY	45.0100	-103.4828	3150	NCEI	06/1949 - 12/1952
SD	CUSTER	39-2087	DLY	43.7744	-103.6119	5480	NCEI	04/1911 - 09/2023
SD	DEADWOOD	39-2207	DLY	44.3736	-103.7314	4670	NCEI	12/1908 - 04/2006
SD	DEADWOOD 2NE	39-2209	DLY	44.3900	-103.7006	4612	NCEI	01/2000 - 06/2014

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
SD	DEERFIELD 3 SE	39-2231	DLY	43.9944	-103.7858	6060	NCEI	05/1981 - 12/2002
SD	DEERFIELD DAM	39-2234	DLY	44.0167	-103.7833	5873	NCEI	06/1909 - 11/1955
SD	DUMONT 2 ENE	39-2409	DLY	44.2500	-103.7667	6145	NCEI	03/1909 - 09/1969
SD	EDGEMONT	39-2557	DLY	43.3136	-103.8214	3432	NCEI	06/1948 - 10/2023
SD	EDGEMONT	39-2557	15M	43.3136	-103.8214	3432	NCEI	09/1973 - 12/2013
SD	EDGEMONT	39-2557	HLY	43.3136	-103.8214	3432	NCEI	08/1948 - 12/2013
SD	EDGEMONT 23 NNW	39-2565	15M	43.6242	-103.9172	4402	NCEI	11/1977 - 12/2013
SD	EDGEMONT 23 NNW	39-2565	DLY	43.6242	-103.9172	4402	NCEI	08/1989 - 09/2023
SD	EDGEMONT 23 NNW	39-2565	HLY	43.6242	-103.9172	4402	NCEI	11/1967 - 12/2013
SD	FT MEADE	39-3069	DLY	44.4106	-103.4769	3308	NCEI	11/1901 - 10/2023
SD	HARDING 3 SE	39-3560	DLY	45.3600	-103.8117	3400	NCEI	10/1951 - 10/2023
SD	HARDY RS	39-3572	DLY	44.1500	-103.9500	6473	NCEI	04/1909 - 09/1951
SD	HERMOSA 3 SSW	39-3775	DLY	43.8069	-103.2131	3425	NCEI	11/1905 - 12/2012
SD	HILL CITY	39-3868	DLY	43.9342	-103.5572	4946	NCEI	01/1909 - 10/2023
SD	HOT SPRINGS	39-4007	DLY	43.4378	-103.4739	3560	NCEI	12/1893 - 10/2023
SD	LADNER 9SW	39-4671	DLY	45.7733	-103.8789	3000	NCEI	09/1949 - 09/2023
SD	LADNER 9SW	39-4671	HLY	45.7733	-103.8789	3000	NCEI	12/1949 - 06/1975
SD	LEAD	39-4834	DLY	44.3544	-103.7430	5112	NCEI	12/1908 - 10/2023
SD	LUDLOW 3 SSE	39-5048	DLY	45.7850	-103.3719	2990	NCEI	01/1924 - 05/2015
SD	MT RUSHMORE NMEM	39-5870	DLY	43.8769	-103.4578	5311	NCEI	12/1961 - 10/2023
SD	NEWELL	39-6054	DLY	44.7136	-103.4258	2860	NCEI	07/1920 - 10/2023
SD	OELRICHS	39-6212	DLY	43.1878	-103.2372	3348	NCEI	11/1892 - 09/2023
SD	ORAL	39-6304	15M	43.4033	-103.2683	2960	NCEI	01/1984 - 12/2013
SD	ORAL	39-6304	DLY	43.4033	-103.2683	2960	NCEI	03/1971 - 10/2023
SD	ORAL	39-6304	HLY	43.4033	-103.2683	2960	NCEI	05/1971 - 12/2013

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
SD	ORMAN DAM	39-6357	DLY	44.7333	-103.6667	2933	NCEI	03/1906 - 06/1974
SD	PACTOLA DAM	39-6427	15M	44.0622	-103.4819	4720	NCEI	06/1978 - 12/2013
SD	PACTOLA DAM	39-6427	DLY	44.0622	-103.4819	4720	NCEI	06/1951 - 10/2023
SD	PACTOLA DAM	39-6427	HLY	44.0622	-103.4819	4720	NCEI	08/1951 - 12/2013
SD	RALPH 1 N	39-6907	DLY	45.7842	-103.0656	2790	NCEI	05/1941 - 07/2003
SD	RAPID CITY 4NW	39-6947	DLY	44.1206	-103.2842	3479	NCEI	04/1949 - 10/2023
SD	REDIG 11 NE	39-7062	DLY	45.3767	-103.3675	3070	NCEI	08/1914 - 12/2011
SD	ROCHFORD	39-7222	DLY	44.1242	-103.7196	5299	NCEI	04/1948 - 01/1951
SD	ROCHFORD 2 WNW	39-7227	HLY	44.1317	-103.7506	5450	NCEI	08/1948 - 02/1976
SD	ROCHFORD 2 WNW	39-7227	DLY	44.1317	-103.7506	5450	NCEI	08/1897 - 04/2005
SD	SPEARFISH 9 WNW	39-7877	DLY	44.5500	-104.0167	3432	NCEI	05/1909 - 07/1964
SD	SPEARFISH	39-7882	DLY	44.4975	-103.8717	3633	NCEI	11/1892 - 10/2023
SD	SPEARFISH	39-7882	HLY	44.4975	-103.8717	3633	NCEI	08/1948 - 12/2013
SD	SPEARFISH	39-7882	15M	44.4975	-103.8717	3633	NCEI	12/1975 - 12/2013
SD	VALE	39-8552	DLY	44.6167	-103.4000	2772	NCEI	12/1907 - 07/1978
SD	WIND CAVE	39-9347	15M	43.5561	-103.4794	4155	NCEI	09/1973 - 12/2013
SD	WIND CAVE	39-9347	DLY	43.5561	-103.4794	4155	NCEI	06/1948 - 10/2023
SD	WIND CAVE	39-9347	HLY	43.5561	-103.4794	4155	NCEI	08/1948 - 12/2013
UT	ALLEN'S RCH	42-0050	DLY	40.8997	-109.1528	5490	NCEI	06/1962 - 10/2001
UT	ALPINE	42-0061	DLY	40.4644	-111.7708	5100	NCEI	03/1899 - 10/2023
UT	ALTA	42-0072	HLY	40.5906	-111.6369	8710	NCEI	11/1950 - 11/1954
UT	ALTA	42-0072	DLY	40.5906	-111.6369	8710	NCEI	01/1905 - 10/2023
UT	ALTAMONT	42-0074	DLY	40.3669	-110.2986	6456	NCEI	04/1953 - 10/2023
UT	ARGENTA	42-0342	HLY	40.6419	-111.6797	6980	NCEI	03/1977 - 08/2011
UT	ARGENTA	42-0342	15M	40.6419	-111.6797	6980	NCEI	09/1977 - 09/2011

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
UT	BARTHOLOMEW POWERHOUSE	42-0449	DLY	40.1667	-111.5000	5139	NCEI	07/1956 - 09/1994
UT	BEAR RIVER REFUGE	42-0506	DLY	41.4667	-112.2667	4213	NCEI	06/1937 - 02/1984
UT	BONANZA	42-0802	DLY	40.0167	-109.1833	5450	NCEI	01/1938 - 02/1993
UT	BONANZA PUMPING STN	42-0810	DLY	40.0333	-109.1167	5705	NCEI	03/1960 - 05/1966
UT	BOUNTIFUL BENCH	42-0819	DLY	40.8911	-111.8503	4950	NCEI	08/1974 - 10/2023
UT	BOUNTIFUL-VAL VERDA	42-0820	HLY	40.8547	-111.8903	4540	NCEI	06/1981 - 12/2013
UT	BOUNTIFUL-VAL VERDA	42-0820	DLY	40.8547	-111.8903	4540	NCEI	04/1913 - 06/2014
UT	BOUNTIFUL-VAL VERDA	42-0820	15M	40.8547	-111.8903	4540	NCEI	01/1984 - 12/2013
UT	BRIGHAM CITY	42-0924	DLY	41.4833	-112.0333	4344	NCEI	12/1898 - 05/1974
UT	BRIGHAM CITY WASTE PLT	42-0928	DLY	41.5242	-112.0436	4240	NCEI	04/1974 - 10/2023
UT	CITY CREEK WTP	42-1446	DLY	40.8150	-111.8322	5340	NCEI	02/1955 - 10/2023
UT	COALVILLE 13 E	42-1590	DLY	40.9383	-111.1472	6510	NCEI	08/1974 - 10/2017
UT	COALVILLE 13 E	42-1590	HLY	40.9383	-111.1472	6510	NCEI	11/1974 - 12/2013
UT	COALVILLE 13 E	42-1590	15M	40.9383	-111.1472	6510	NCEI	11/1974 - 12/2013
UT	CLG WARD UTAH ST UNIV	42-1601	DLY	41.6667	-111.9000	4491	NCEI	11/1967 - 04/1969
UT	CORINNE	42-1731	DLY	41.5481	-112.1106	4230	NCEI	01/1896 - 06/2006
UT	COTTONWOOD WEIR	42-1759	HLY	40.6189	-111.7836	4986	NCEI	07/1948 - 12/2013
UT	COTTONWOOD WEIR	42-1759	15M	40.6189	-111.7836	4986	NCEI	05/1971 - 12/2013
UT	COTTONWOOD WEIR	42-1759	DLY	40.6189	-111.7836	4986	NCEI	03/1917 - 09/2023
UT	CURRANT CREEK JUNCTION	42-1907	DLY	40.2000	-110.9000	6680	NCEI	05/1985 - 06/1996
UT	CUTLER DAM	42-1918	DLY	41.8331	-112.0578	4290	NCEI	02/1980 - 10/2023
UT	DEER CREEK DAM	42-2057	DLY	40.4044	-111.5289	5270	NCEI	01/1939 - 10/2023
UT	DINOSAUR NM	42-2172	DLY	40.4333	-109.3000	5082	NCEI	11/1940 - 03/1958
UT	DINOSAUR NM-QUARRY AREA	42-2173	DLY	40.4383	-109.3069	4802	NCEI	10/1915 - 10/2023
UT	DUCHESNE AP	42-2252	DLY	40.2000	-110.3833	5823	NCEI	01/1974 - 10/1980

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
UT	DUCHESNE	42-2253	DLY	40.1703	-110.3978	5551	NCEI	01/1906 - 10/2023
UT	ECHO DAM	42-2385	DLY	40.9656	-111.4336	5470	NCEI	12/1939 - 09/2023
UT	ECHO DAM	42-2385	HLY	40.9656	-111.4336	5470	NCEI	11/1949 - 12/2013
UT	ECHO DAM	42-2385	15M	40.9656	-111.4336	5470	NCEI	05/1971 - 12/2013
UT	ELKHORN ASHLEY RNGR ST	42-2429	DLY	40.5500	-109.9500	6810	NCEI	11/1909 - 04/1956
UT	FARMINGTON	42-2721	DLY	40.9833	-111.9000	4272	NCEI	11/1892 - 05/1965
UT	FARMINGTON 3 NW	42-2726	DLY	41.0203	-111.9328	4380	NCEI	05/1948 - 09/2016
UT	FARMINGTON 3 NW	42-2726	HLY	41.0203	-111.9328	4380	NCEI	08/1948 - 12/2013
UT	FARMINGTON 3 NW	42-2726	15M	41.0203	-111.9328	4380	NCEI	11/2001 - 12/2013
UT	FLAMING GORGE	42-2864	15M	40.9317	-109.4117	6244	NCEI	01/1984 - 06/2000
UT	FLAMING GORGE	42-2864	HLY	40.9317	-109.4117	6244	NCEI	02/1958 - 08/2001
UT	FLAMING GORGE	42-2864	DLY	40.9317	-109.4117	6244	NCEI	10/1957 - 10/2023
UT	FT DUCHESNE	42-2996	DLY	40.2842	-109.8611	5052	NCEI	10/1887 - 10/2023
UT	FRUITLAND	42-3056	HLY	40.2167	-110.8500	6624	NCEI	08/1948 - 07/1965
UT	FRUITLAND	42-3056	DLY	40.2167	-110.8500	6624	NCEI	04/1910 - 02/1966
UT	GARLAND 1 NE	42-3122	DLY	41.7561	-112.1517	4340	NCEI	01/1909 - 10/1979
UT	GARLAND 1 NE	42-3122	15M	41.7561	-112.1517	4340	NCEI	10/1987 - 02/2000
UT	GARLAND 1 NE	42-3122	HLY	41.7561	-112.1517	4340	NCEI	10/1987 - 02/2000
UT	GENEVA STEEL	42-3182	DLY	40.2833	-111.7333	4554	NCEI	11/1952 - 01/1960
UT	GENEVA STEEL 2	42-3183	DLY	40.3000	-111.7333	4554	NCEI	12/1959 - 07/1982
UT	GROUSE CREEK	42-3485	DLY	41.7167	-113.8667	5324	NCEI	11/1892 - 07/1939
UT	GROUSE CREEK	42-3486	DLY	41.7139	-113.8694	5320	NCEI	01/1959 - 09/2011
UT	HANNA	42-3624	DLY	40.4006	-110.7586	6738	NCEI	04/1952 - 05/1994
UT	HANNA	42-3624	15M	40.4006	-110.7586	6738	NCEI	05/1971 - 11/1995
UT	HANNA	42-3624	HLY	40.4006	-110.7586	6738	NCEI	07/1965 - 11/1995

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
UT	HARDWARE RCH	42-3671	DLY	41.6000	-111.5667	5560	NCEI	11/1955 - 02/1991
UT	HEBER	42-3809	DLY	40.4917	-111.4261	5590	NCEI	11/1892 - 05/2013
UT	HIGH LINE CITY CREEK	42-3929	DLY	40.8167	-111.8333	5282	NCEI	06/1915 - 01/1956
UT	HOBBLE CREEK	42-4000	DLY	40.1573	-111.5308	4942	NCEI	11/1946 - 04/1948
UT	HUNTSVILLE MONASTERY	42-4135	DLY	41.2403	-111.7131	5140	NCEI	09/1976 - 10/2013
UT	JARVIE RCH	42-4321	DLY	40.8992	-109.1789	5454	NCEI	11/2001 - 02/2020
UT	JARVIE RCH 1S	42-4322	DLY	40.8836	-109.1803	5674	NCEI	05/2015 - 12/2017
UT	JENSEN	42-4342	DLY	40.3611	-109.3464	4736	NCEI	01/1925 - 10/2023
UT	KAMAS	42-4467	DLY	40.6439	-111.2822	6481	NCEI	08/1948 - 08/2023
UT	KAYSVILLE 1 SE	42-4538	15M	41.0200	-111.9331	4380	NCEI	04/1988 - 02/2002
UT	KAYSVILLE 1 SE	42-4538	HLY	41.0200	-111.9331	4380	NCEI	04/1988 - 02/2002
UT	LAKETOWN	42-4856	DLY	41.8253	-111.3206	5980	NCEI	11/1899 - 10/2023
UT	LEWISTON	42-5082	DLY	41.9667	-111.8333	4482	NCEI	07/1924 - 06/1976
UT	LOGAN RADIO KVNU	42-5182	DLY	41.7350	-111.8564	4475	NCEI	09/1956 - 10/2023
UT	LOGAN SUGAR FACTORY	42-5183	DLY	41.7000	-111.8667	4482	NCEI	06/1924 - 04/1941
UT	LOGAN UTAH ST UNIV	42-5186	DLY	41.7456	-111.8033	4790	NCEI	11/1892 - 10/2023
UT	LOGAN UTAH ST UNIV	42-5186	HLY	41.7456	-111.8033	4790	NCEI	07/1948 - 12/2013
UT	LOGAN UTAH ST UNIV	42-5186	15M	41.7456	-111.8033	4790	NCEI	05/1971 - 12/2013
UT	LOGAN 5 SW EXP FARM	42-5194	DLY	41.6661	-111.8914	4488	NCEI	03/1969 - 10/2023
UT	LOGAN 5 SW EXP FARM	42-5194	HLY	41.6661	-111.8914	4488	NCEI	10/1976 - 12/2013
UT	LOGAN 5 SW EXP FARM	42-5194	15M	41.6661	-111.8914	4488	NCEI	01/1984 - 12/2013
UT	LOWER AMERI FORK PWHS	42-5219	DLY	40.4333	-111.7500	5043	NCEI	11/1913 - 05/1957
UT	MANILA	42-5377	DLY	40.9900	-109.7258	6393	NCEI	01/1910 - 09/2023
UT	MIDVALE	42-5610	DLY	40.6000	-111.9167	4344	NCEI	08/1911 - 11/1971
UT	MILLVILLE	42-5705	DLY	41.6833	-111.8500	4600	NCEI	01/1899 - 11/1924

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
UT	MOON LAKE	42-5815	DLY	40.5617	-110.4925	8125	NCEI	05/1935 - 07/1969
UT	MOON LAKE	42-5815	HLY	40.5617	-110.4925	8125	NCEI	10/1978 - 12/2013
UT	MOON LAKE	42-5815	15M	40.5617	-110.4925	8125	NCEI	10/1978 - 05/2013
UT	MORGAN	42-5826	DLY	41.0575	-111.6894	5100	NCEI	11/1902 - 10/2023
UT	MTN DELL DAM	42-5892	15M	40.7486	-111.7233	5420	NCEI	05/1971 - 12/2013
UT	MTN DELL DAM	42-5892	HLY	40.7486	-111.7233	5420	NCEI	10/1967 - 12/2013
UT	MTN DELL DAM	42-5892	DLY	40.7486	-111.7233	5420	NCEI	11/1919 - 10/2023
UT	MYTON	42-5969	DLY	40.1942	-110.0608	5085	NCEI	06/1915 - 10/2023
UT	NEOLA	42-6123	DLY	40.4178	-110.0511	5950	NCEI	02/1956 - 10/2023
UT	NEOLA 8 N	42-6127	15M	40.5358	-110.0642	6924	NCEI	12/1971 - 12/2013
UT	NEOLA 8 N	42-6127	HLY	40.5358	-110.0642	6924	NCEI	12/1971 - 12/2013
UT	OAKLEY 3 NE	42-6374	15M	40.7392	-111.2414	6610	NCEI	05/1971 - 12/2013
UT	OAKLEY 3 NE	42-6374	HLY	40.7392	-111.2414	6610	NCEI	02/1971 - 12/2013
UT	OGDEN 2	42-6400	DLY	41.2000	-111.9500	4462	NCEI	11/1892 - 11/1940
UT	OGDEN PIONEER PH	42-6404	15M	41.2439	-111.9467	4350	NCEI	10/1971 - 06/2013
UT	OGDEN PIONEER PH	42-6404	HLY	41.2439	-111.9467	4350	NCEI	10/1971 - 12/2013
UT	OGDEN PIONEER PH	42-6404	DLY	41.2439	-111.9467	4350	NCEI	11/1901 - 09/2010
UT	OGDEN NE BENCH	42-6405	DLY	41.2458	-111.9372	4572	NCEI	11/2010 - 10/2023
UT	OGDEN SUGAR FACTORY	42-6414	15M	41.2319	-112.0283	4280	NCEI	05/1971 - 12/2013
UT	OGDEN SUGAR FACTORY	42-6414	HLY	41.2319	-112.0283	4280	NCEI	06/1953 - 12/2013
UT	OGDEN SUGAR FACTORY	42-6414	DLY	41.2319	-112.0283	4280	NCEI	07/1924 - 03/2009
UT	OGDEN CAA AP	42-6424	HLY	41.1833	-112.0167	4442	NCEI	07/1948 - 05/1952
UT	OLMSTEAD PH	42-6455	HLY	40.3158	-111.6542	4830	NCEI	02/1977 - 12/2013
UT	OLMSTEAD PH	42-6455	15M	40.3158	-111.6542	4830	NCEI	02/1977 - 12/2013
UT	OLMSTEAD PH	42-6455	DLY	40.3161	-111.6539	4820	NCEI	12/1976 - 07/2003

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
UT	OREM TRTMT PLT	42-6538	DLY	40.2767	-111.7369	4510	NCEI	06/1982 - 05/2010
UT	OURAY 4NE	42-6568	DLY	40.1344	-109.6436	4674	NCEI	04/1941 - 08/2023
UT	PARK CITY	42-6644	DLY	40.6558	-111.5053	6900	NCEI	07/1992 - 10/2023
UT	PARK CITY GC	42-6648	HLY	40.6600	-111.5156	6890	NCEI	12/1987 - 12/2013
UT	PARK CITY G.C.	42-6648	DLY	40.6600	-111.5156	6890	NCEI	01/1896 - 06/1991
UT	PARK CITY GC	42-6648	15M	40.6600	-111.5156	6890	NCEI	12/1987 - 09/2013
UT	PARK CITY MEADOWS	42-6650	DLY	40.6833	-111.5000	6745	NCEI	08/1978 - 04/1980
UT	PARK CITY SUMMIT HOUSE	42-6652	DLY	40.6333	-111.5333	9275	NCEI	11/1968 - 08/1977
UT	PARK VALLEY	42-6658	DLY	41.8000	-113.3500	5440	NCEI	02/1911 - 02/1990
UT	PERRY	42-6757	HLY	41.4489	-112.0369	4360	NCEI	12/1987 - 12/2013
UT	PERRY	42-6757	15M	41.4489	-112.0369	4360	NCEI	12/1987 - 12/2013
UT	PINEVIEW DAM	42-6869	DLY	41.2578	-111.8378	4940	NCEI	11/1934 - 10/2023
UT	PLEASANT GROVE	42-6919	DLY	40.3678	-111.7333	4692	NCEI	07/1946 - 09/2023
UT	PLYMOUTH	42-6938	15M	41.8739	-112.1486	4470	NCEI	01/1971 - 12/2013
UT	PLYMOUTH	42-6938	DLY	41.8739	-112.1486	4470	NCEI	11/1939 - 09/2023
UT	PLYMOUTH	42-6938	HLY	41.8739	-112.1486	4470	NCEI	07/1948 - 12/2013
UT	PROVO BYU	42-7064	HLY	40.2458	-111.6508	4570	NCEI	09/1980 - 12/2013
UT	PROVO BYU	42-7064	15M	40.2458	-111.6508	4570	NCEI	01/1984 - 12/2013
UT	PROVO BYU	42-7064	DLY	40.2458	-111.6508	4570	NCEI	02/1916 - 10/2023
UT	RANDOLPH	42-7165	DLY	41.6608	-111.1869	6290	NCEI	03/1893 - 10/2023
UT	RICHMOND	42-7271	DLY	41.9064	-111.8100	4680	NCEI	08/1911 - 10/2023
UT	RIVERDALE	42-7318	DLY	41.1500	-112.0000	4400	NCEI	11/1913 - 02/1991
UT	ROOSEVELT RADIO	42-7395	15M	40.2878	-109.9586	5014	NCEI	11/1980 - 12/2013
UT	ROOSEVELT RADIO	42-7395	DLY	40.2878	-109.9586	5014	NCEI	05/1948 - 10/2023
UT	ROOSEVELT RADIO	42-7395	HLY	40.2878	-109.9586	5014	NCEI	07/1948 - 12/2013

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
UT	ROSETTE	42-7408	DLY	41.8186	-113.4133	5685	NCEI	05/1990 - 10/2023
UT	SALT LAKE CITY	42-7603	HLY	40.7667	-111.8833	4304	NCEI	07/1948 - 11/1973
UT	SALT LAKE TRIAD CTR	42-7606	DLY	40.7708	-111.8964	4280	NCEI	03/1985 - 06/2020
UT	SALT LAKE TRIAD CTR	42-7606	15M	40.7708	-111.8964	4280	NCEI	03/1973 - 04/1984
UT	SALT LAKE TRIAD CTR	42-7606	HLY	40.7708	-111.8964	4280	NCEI	03/1973 - 04/1984
UT	SALT LAKE CITY E BENCH	42-7655	DLY	40.7364	-111.8172	4850	NCEI	04/1990 - 01/2005
UT	SILVER LAKE BRIGHTON	42-7846	15M	40.6008	-111.5842	8740	NCEI	05/1971 - 10/2013
UT	SILVER LAKE BRIGHTON	42-7846	HLY	40.6008	-111.5842	8740	NCEI	07/1948 - 12/2013
UT	SILVER LAKE BRIGHTON	42-7846	DLY	40.6008	-111.5842	8740	NCEI	05/1915 - 10/2023
UT	SNAKE CREEK POWERHOUSE	42-7909	DLY	40.5453	-111.5042	6010	NCEI	10/1913 - 08/2008
UT	SNOWVILLE	42-7931	DLY	41.9667	-112.7167	4560	NCEI	01/1893 - 10/1991
UT	STRAWBERRY DANIELS SUM	42-8369	DLY	40.3000	-111.2500	8005	NCEI	09/1935 - 12/1948
UT	TERMINAL	42-8631	DLY	40.7500	-112.0000	4232	NCEI	04/1940 - 04/1972
UT	THIOKOL PROPULSION F S	42-8668	DLY	41.7197	-112.4264	4600	NCEI	04/1962 - 12/2009
UT	TIMPANOGOS CAVE	42-8733	DLY	40.4447	-111.7075	5740	NCEI	10/1946 - 05/2020
UT	TIMPANOGOS CAVE	42-8733	HLY	40.4422	-111.7133	5510	NCEI	04/2007 - 12/2013
UT	TIMPANOGOS CAVE	42-8733	15M	40.4422	-111.7133	5510	NCEI	04/2007 - 12/2013
UT	TREMONTON	42-8817	DLY	41.7108	-112.1636	4310	NCEI	02/1913 - 04/2010
UT	TRENTON	42-8828	DLY	41.9153	-111.9128	4455	NCEI	02/1944 - 10/2023
UT	UNIV OF UTAH	42-8922	DLY	40.7667	-111.8333	4800	NCEI	10/1913 - 02/1990
UT	UPPER AMERICAN FORK PH	42-8939	HLY	40.4378	-111.7236	5330	NCEI	06/1986 - 03/2007
UT	UPPER AMERICAN FORK PH	42-8939	DLY	40.4378	-111.7236	5330	NCEI	07/1957 - 05/1986
UT	UPPER AMERICAN FORK PH	42-8939	15M	40.4378	-111.7236	5330	NCEI	06/1986 - 03/2007
UT	VERNAL	42-9111	DLY	40.4403	-109.5356	5345	NCEI	10/1894 - 10/2023
UT	WANSHIP DAM	42-9165	DLY	40.7908	-111.4078	5940	NCEI	06/1955 - 10/2023

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
UT	WEBER BASIN PUMP PLT 3	42-9346	DLY	41.1092	-111.9125	4900	NCEI	03/1962 - 09/2023
UT	WOODRUFF	42-9595	DLY	41.5250	-111.1494	6315	NCEI	11/1896 - 10/2023
WA	ANATONE	45-0184	DLY	46.1333	-117.1333	3573	NCEI	07/1912 - 11/1981
WA	ASOTIN 14 SW	45-0294	DLY	46.2039	-117.2472	3403	NCEI	05/1976 - 10/2023
WA	BOUNDARY DAM	45-0844	DLY	48.9947	-117.3544	1837	NCEI	05/1965 - 10/2023
WA	BOUNDARY DAM 1 W	45-0845	DLY	48.9904	-117.3716	2602	NCEI	10/1970 - 12/1973
WA	BOUNDARY SWITCHYARD	45-0849	15M	48.9806	-117.3586	2572	NCEI	05/1971 - 12/2013
WA	BOUNDARY SWITCHYARD	45-0849	HLY	48.9806	-117.3586	2572	NCEI	01/1971 - 12/2013
WA	CHEWELAH	45-1395	HLY	48.2733	-117.7411	1644	NCEI	11/1968 - 12/2013
WA	CHEWELAH	45-1395	DLY	48.2733	-117.7408	1670	NCEI	07/1925 - 10/2023
WA	CHEWELAH	45-1395	15M	48.2733	-117.7411	1644	NCEI	05/1971 - 12/2013
WA	COLFAX	45-1586	DLY	46.8833	-117.3647	1980	NCEI	12/1891 - 07/2013
WA	COLVILLE	45-1630	DLY	48.5678	-117.9356	1554	NCEI	07/1899 - 10/2023
WA	COLVILLE	45-1630	HLY	48.5678	-117.9356	1554	NCEI	06/1993 - 12/2013
WA	COLVILLE	45-1630	15M	48.5678	-117.9356	1554	NCEI	06/1993 - 12/2013
WA	COLVILLE AP	45-1650	DLY	48.5500	-117.8833	1885	NCEI	01/1937 - 10/1987
WA	COLVILLE AP	45-1650	HLY	48.5500	-117.8833	1885	NCEI	07/1948 - 02/1988
WA	COLVILLE AP	45-1650	15M	48.5500	-117.8833	1885	NCEI	04/1978 - 02/1988
WA	COLVILLE 5 NE	45-1654	15M	48.5833	-117.8000	1657	NCEI	04/1988 - 02/1993
WA	COLVILLE 5 NE	45-1654	HLY	48.5833	-117.8000	1657	NCEI	04/1988 - 02/1993
WA	COLVILLE 5 NE	45-1654	DLY	48.5500	-117.9000	1657	NCEI	07/1988 - 02/1993
WA	DAYTON 1 WSW	45-2030	DLY	46.3153	-118.0022	1557	NCEI	01/1893 - 10/2023
WA	DAYTON 1 WSW	45-2030	15M	46.3153	-118.0022	1557	NCEI	05/1971 - 12/2013
WA	DAYTON 1 WSW	45-2030	HLY	46.3153	-118.0022	1557	NCEI	04/1962 - 12/2013
WA	DAYTON 9 SE	45-2037	HLY	46.2167	-117.8500	2343	NCEI	07/1948 - 08/1977

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WA	DAYTON 9 SE	45-2037	DLY	46.2167	-117.8500	2343	NCEI	01/1950 - 09/1951
WA	DEER PARK	45-2064	HLY	47.9742	-117.4292	2191	NCEI	02/2007 - 12/2013
WA	DEER PARK AP	45-2066	DLY	47.9667	-117.4333	2201	NCEI	03/1911 - 03/1977
WA	EWAN	45-2706	DLY	47.1167	-117.7333	1722	NCEI	10/1939 - 12/1973
WA	LACROSSE	45-4338	DLY	46.8167	-117.8831	1476	NCEI	01/1908 - 07/2021
WA	LOWER GRANITE DAM	45-4835	DLY	46.6580	-117.4327	660	NCEI	10/1965 - 10/1975
WA	METALINE FALLS	45-5317	DLY	48.8667	-117.3667	2113	NCEI	10/1909 - 05/1965
WA	NEWPORT	45-5844	DLY	48.1842	-117.0475	2162	NCEI	08/1909 - 08/2023
WA	NORTHPORT	45-5946	DLY	48.8994	-117.8289	1497	NCEI	01/1899 - 10/2023
WA	NORTHPORT	45-5946	15M	48.8994	-117.8289	1497	NCEI	09/1980 - 12/2013
WA	NORTHPORT	45-5946	HLY	48.8994	-117.8289	1497	NCEI	04/1961 - 12/2013
WA	POMEROY	45-6610	DLY	46.4672	-117.5883	1934	NCEI	08/1891 - 04/2020
WA	PULLMAN EXP STN	45-6784	HLY	46.7333	-117.1667	2582	NCEI	11/1949 - 11/1949
WA	PULLMAN EXP STN	45-6784	DLY	46.7333	-117.1667	2582	NCEI	11/1892 - 02/1954
WA	PULLMAN 2 NW	45-6789	DLY	46.7603	-117.1861	2515	NCEI	08/1940 - 10/2023
WA	PULLMAN 2 NW	45-6789	15M	46.7603	-117.1861	2515	NCEI	01/1984 - 12/2013
WA	PULLMAN 2 NW	45-6789	HLY	46.7603	-117.1861	2515	NCEI	07/1948 - 12/2013
WA	ROSALIA	45-7180	DLY	47.2347	-117.3636	2420	NCEI	11/1892 - 10/2023
WA	ST JOHN	45-7267	DLY	47.0933	-117.5878	1952	NCEI	06/1963 - 10/2020
WA	SPOKANE	45-7933	DLY	47.6667	-117.4167	1880	NCEI	09/1953 - 10/1983
WA	SPOKANE INTL AP	45-7938	HLY	47.6217	-117.5281	2353	NCEI	08/1948 - 12/2013
WA	SPOKANE WFO	45-7941	HLY	47.6811	-117.6267	2391	NCEI	08/1996 - 11/2005
WA	SPOKANE WFO	45-7941	DLY	47.6811	-117.6267	2392	NCEI	06/1996 - 10/2023
WA	SPOKANE WFO	45-7941	15M	47.6811	-117.6267	2391	NCEI	08/1996 - 11/2005
WA	SPRAGUE	45-7956	HLY	47.3000	-117.9833	1970	NCEI	07/1948 - 10/1982

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WA	SPRAGUE	45-7956	DLY	47.3000	-117.9833	1970	NCEI	01/1899 - 08/1982
WA	TEKOA	45-8348	DLY	47.2275	-117.0836	2495	NCEI	04/1905 - 09/1980
WA	TEKOA	45-8348	HLY	47.2275	-117.0836	2495	NCEI	09/1971 - 12/2013
WA	TEKOA	45-8348	15M	47.2275	-117.0836	2495	NCEI	05/1971 - 12/2013
WA	WAWAWAI 2 NW	45-9024	DLY	46.6500	-117.4000	702	NCEI	11/1927 - 10/1965
WA	WELLPINIT	45-9058	DLY	47.8964	-117.9933	2490	NCEI	06/1923 - 12/2007
SD	DEADWOOD	52-2207	DLY	44.3772	-103.7306	4549	FORTS	12/1877 - 12/1887
UT	FORT DUCHESNE	52-2996	DLY	40.2894	-109.8561	4996	FORTS	12/1887 - 11/1893
CO	BOULDER 2	54-0001	15M	40.0340	-105.2813	5427	NCEI	05/1971 - 11/2020
CO	DINOSAUR NATL MONUMENT	54-0003	15M	40.2441	-108.9726	5960	NCEI	01/1984 - 10/2020
CO	FORT COLLINS	54-0004	15M	40.5763	-105.0857	5004	NCEI	01/1984 - 11/2020
CO	GRAND LAKE 6 SSW	54-0005	15M	40.1849	-105.8666	8288	NCEI	01/1984 - 11/2020
CO	GREELEY UNC	54-0006	15M	40.4022	-104.6991	4715	NCEI	07/1985 - 11/2020
CO	LONGMONT 6 NW	54-0007	15M	40.2466	-105.1463	5150	NCEI	05/1971 - 11/2020
CO	MEEKER	54-0008	15M	40.0358	-107.9058	6229	NCEI	01/1993 - 11/2020
CO	NEDERLAND 5 NNW	54-0009	15M	40.0361	-105.5461	10010	NCEI	10/1996 - 11/2020
CO	NORTHGATE	54-0011	15M	40.9366	-106.3391	7830	NCEI	03/1979 - 11/2019
CO	NUNN	54-0012	15M	40.7063	-104.7833	5196	NCEI	04/1973 - 11/2020
CO	WILLIAMS FORK DAM	54-0013	15M	40.0375	-106.2038	7618	NCEI	06/1982 - 11/2020
NE	BRIDGEPORT	54-0117	15M	41.6680	-103.1038	3666	NCEI	05/1971 - 10/2020
NE	CHADRON 3SW	54-0118	15M	42.8083	-103.0533	3383	NCEI	01/1984 - 02/2020
ND	AMBROSE 3 N	54-0119	15M	48.9975	-103.4877	2027	NCEI	11/1977 - 10/2020
ND	BOWMAN	54-0120	15M	46.1936	-103.3714	2983	NCEI	05/1971 - 10/2020
OR	HALFWAY	54-0121	15M	44.8773	-117.1095	2653	NCEI	10/1974 - 02/2020
SD	CAMP CROOK	54-0123	15M	45.5488	-103.9744	3120	NCEI	01/1984 - 10/2020

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
SD	EDGEMONT	54-0124	15M	43.3136	-103.8215	3432	NCEI	09/1973 - 10/2020
SD	EDGEMONT 23 NNW	54-0125	15M	43.6242	-103.9172	4402	NCEI	11/1977 - 10/2020
SD	ORAL	54-0126	15M	43.4033	-103.2683	2960	NCEI	01/1984 - 10/2020
SD	PACTOLA DAM	54-0127	15M	44.0622	-103.4819	4720	NCEI	06/1978 - 10/2020
UT	COALVILLE 13 E	54-0131	15M	40.9383	-111.1472	6510	NCEI	11/1974 - 10/2017
UT	ECHO DAM	54-0133	15M	40.9655	-111.4336	5470	NCEI	05/1971 - 11/2020
UT	FARMINGTON 3 NW	54-0134	15M	41.0203	-111.9328	4380	NCEI	11/2001 - 10/2020
UT	LOGAN UTAH ST U	54-0135	15M	41.7456	-111.8033	4790	NCEI	05/1971 - 11/2020
UT	LOGAN 5 SW EXP FARM	54-0136	15M	41.6661	-111.8913	4488	NCEI	01/1984 - 11/2020
UT	MOUNTAIN DELL DAM	54-0137	15M	40.7485	-111.7232	5420	NCEI	06/1971 - 12/2020
UT	OAKLEY 3 NE	54-0139	15M	40.7393	-111.2415	6610	NCEI	05/1971 - 11/2020
UT	OGDEN SUGAR FACTORY	54-0140	15M	41.2319	-112.0283	4280	NCEI	05/1971 - 11/2020
UT	OLMSTEAD PH	54-0141	15M	40.3158	-111.6542	4830	NCEI	02/1977 - 11/2020
UT	PERRY	54-0142	15M	41.4489	-112.0369	4360	NCEI	12/1987 - 11/2020
UT	PLYMOUTH	54-0143	15M	41.8740	-112.1487	4470	NCEI	02/1971 - 12/2020
UT	PROVO BYU	54-0144	15M	40.2458	-111.6508	4570	NCEI	01/1984 - 12/2020
UT	ROOSEVELT RADIO	54-0145	15M	40.2878	-109.9586	5014	NCEI	11/1980 - 11/2020
WA	DAYTON 1 WSW	54-0149	15M	46.3152	-118.0022	1557	NCEI	05/1971 - 06/2020
WA	NORTHPORT	54-0150	15M	48.8994	-117.8290	1497	NCEI	09/1980 - 06/2018
WA	PULLMAN 2 NW	54-0151	15M	46.7602	-117.1861	2515	NCEI	01/1984 - 12/2019
AB	ONEFOUR CDA ALTA	55-0007	HLY	49.1170	-110.4670	3068	NCEI	05/2013 - 11/2023
SK	ROCKGLEN (AUT) SASK	55-0009	HLY	49.1670	-105.9830	3009	NCEI	05/2013 - 12/2023
AB	WATERTON PARK GATE	55-0013	HLY	49.1330	-113.8170	4229	NCEI	05/2013 - 12/2023
BC	SPARWOOD CS BC	55-0044	HLY	49.7500	-114.8830	3734	NCEI	05/2013 - 12/2023
CO	NOVEMBER (GROVER)	55-0106	HLY	40.6330	-103.8330	4787	NCEI	12/2014 - 12/2023

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
UT	LOGAN-CACHE AIRPORT	55-0134	HL Y	41.7870	-111.8530	4454	NCEI	01/1999 - 12/2023
NE	CHADRON MUNICIPAL AIRPORT	55-0137	HL Y	42.8370	-103.0980	3294	NCEI	12/1972 - 12/2023
NE	WESTERN NE REGIONAL/HEILIG F	55-0146	HL Y	41.8710	-103.5930	3945	NCEI	12/1972 - 12/2023
SD	BUFFALO	55-0200	HL Y	45.6040	-103.5460	3004	NCEI	01/1999 - 12/2023
OR	ONTARIO MUNICIPAL AIRPORT	55-0236	HL Y	44.0210	-117.0130	2193	NCEI	05/1997 - 12/2023
OR	BAKER CITY MUNICIPAL ARPT	55-0243	HL Y	44.8430	-117.8090	3361	NCEI	10/2001 - 12/2023
ND	SLOULIN FIELD INTERNATIONAL	55-0244	HL Y	48.1740	-103.6370	1902	NCEI	01/1973 - 10/2019
WA	FAIRCHILD AIR FORCE BASE	55-0273	HL Y	47.6330	-117.6500	2461	NCEI	01/2007 - 12/2023
WA	DEER PARK AIRPORT	55-0277	HL Y	47.9740	-117.4290	2191	NCEI	07/2010 - 12/2023
NE	CHADRON MUNICIPAL AP	55-0299	HL Y	42.8370	-103.0980	3296	NCEI	08/1948 - 12/1954
CO	BOULDER 14 W	57-0002	DLY	40.0354	-105.5407	9828	NCEI	09/2003 - 12/2021
CO	BOULDER 14 W	57-0002	15M	40.0354	-105.5407	9828	NCEI	12/2005 - 12/2021
CO	BOULDER 14 W	57-0002	HL Y	40.0354	-105.5407	9828	NCEI	09/2003 - 12/2021
SD	BUFFALO 13 ESE	57-0004	15M	45.5160	-103.3017	2883	NCEI	12/2005 - 12/2021
SD	BUFFALO 13 ESE	57-0004	HL Y	45.5160	-103.3017	2883	NCEI	09/2004 - 12/2021
SD	BUFFALO 13 ESE	57-0004	DLY	45.5160	-103.3017	2883	NCEI	09/2004 - 12/2021
CO	DINOSAUR 2 E	57-0007	HL Y	40.2446	-108.9678	6062	NCEI	07/2004 - 12/2021
CO	DINOSAUR 2 E	57-0007	DLY	40.2446	-108.9678	6062	NCEI	07/2004 - 12/2021
CO	DINOSAUR 2 E	57-0007	15M	40.2446	-108.9678	6062	NCEI	07/2006 - 12/2021
UT	MANILA 18 ESE	57-0011	HL Y	40.9226	-109.3899	6536	NCEI	09/2011 - 06/2014
UT	MANILA 18 ESE	57-0011	DLY	40.9226	-109.3899	6536	NCEI	09/2011 - 05/2014
UT	MANILA 18 ESE	57-0011	15M	40.9226	-109.3899	6536	NCEI	09/2011 - 06/2014
CO	NUNN 7 NNE	57-0017	HL Y	40.8066	-104.7552	5390	NCEI	07/2003 - 12/2021
CO	NUNN 7 NNE	57-0017	DLY	40.8066	-104.7552	5390	NCEI	07/2003 - 12/2021
CO	NUNN 7 NNE	57-0017	15M	40.8066	-104.7552	5390	NCEI	12/2005 - 12/2021

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
UT	VERNAL 23 SSE	57-0022	DLY	40.1346	-109.6429	4674	NCEI	09/2011 - 05/2014
UT	VERNAL 23 SSE	57-0022	HLY	40.1346	-109.6429	4674	NCEI	09/2011 - 06/2014
UT	VERNAL 23 SSE	57-0022	15M	40.1346	-109.6429	4674	NCEI	09/2011 - 06/2014
BC	CASTLEGAR A	60-1123	HLY	49.3000	-117.6300	1624	EC	12/1972 - 03/1996
BC	CASTLEGAR BCHPA DAM	60-1124	HLY	49.3400	-117.7700	1427	EC	06/1969 - 07/2000
BC	CRANBROOK A	60-1134	HLY	49.6100	-115.7800	3084	EC	04/1969 - 11/2002
BC	CRANBROOK AIRPORT AUTO	60-1135	HLY	49.6200	-115.7900	3038	EC	11/2013 - 08/2021
BC	KIMBERLEY PCC	60-1137	HLY	49.6300	-115.9600	2917	EC	06/1975 - 12/2005
BC	SPARWOOD	60-1138	HLY	49.7500	-114.8800	3730	EC	04/1980 - 08/2012
AB	LETHBRIDGE A	60-1165	HLY	49.6300	-112.8000	3045	EC	04/1960 - 11/1995
AB	PINCHER CREEK	60-1171	HLY	49.5000	-113.9500	3789	EC	06/1965 - 05/1979
AB	PINCHER CREEK A	60-1172	HLY	49.5200	-114.0000	3901	EC	07/1979 - 10/1993
AB	PINCHER CREEK CLIMATE	60-1173	HLY	49.5200	-114.0000	3904	EC	11/2012 - 08/2021
AB	MANYBERRIES CDA	60-1178	HLY	49.1200	-110.4700	3064	EC	06/1964 - 10/1990
SK	ORMISTON	60-1201	HLY	49.7200	-105.3700	2247	EC	06/1969 - 09/1998
SK	WEYBURN	60-1202	HLY	49.6500	-103.8300	1867	EC	10/1960 - 06/2007
SK	YELLOW GRASS NORTH	60-1203	HLY	49.8200	-104.1800	1896	EC	11/2016 - 08/2021
SK	ROCKGLEN (AUT)	60-1213	HLY	49.1700	-105.9800	3009	EC	05/1971 - 08/2021
UT	LOGAN	61-0014	DLY	41.6661	-111.8914	4495	NADP	12/1983 - 12/2017
CO	BUFFALO PASS - DRY LAKE	61-0035	DLY	40.5347	-106.7811	8327	NADP	10/1986 - 12/2017
CO	PAWNEE	61-0037	DLY	40.8060	-104.7560	5384	NADP	05/1979 - 12/2017
CO	ROCKY MOUNTAIN NATIONAL PARK-B	61-0038	DLY	40.3639	-105.5810	8127	NADP	05/1980 - 11/2017
CO	FT COLLINS AERC	62-0003	HLY	40.5833	-105.1500	5062	AWDN	02/1992 - 07/2021
CO	FT COLLINS AERC	62-0003	DLY	40.5833	-105.1500	5062	AWDN	02/1992 - 06/2021
CO	PECKHAM	62-0010	DLY	40.3000	-104.7333	4648	AWDN	03/1992 - 06/2021

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
CO	PECKHAM	62-0010	HL Y	40.3000	-104.7333	4648	AWDN	03/1992 - 07/2021
CO	AULT	62-0012	DLY	40.5667	-104.7333	4885	AWDN	03/1992 - 06/2021
CO	AULT	62-0012	HL Y	40.5667	-104.7333	4885	AWDN	03/1992 - 07/2021
CO	KERSEY	62-0017	DLY	40.3667	-104.5333	4573	AWDN	04/1992 - 06/2021
CO	KERSEY	62-0017	HL Y	40.3667	-104.5333	4573	AWDN	04/1992 - 07/2021
NE	SCOTTSDLUFF 6NW	62-0031	DLY	41.9500	-103.7000	4114	AWDN	07/1996 - 06/2021
NE	SCOTTSDLUFF 6NW	62-0031	HL Y	41.9500	-103.7000	4114	AWDN	07/1996 - 07/2021
ND	WILLISTON	62-0049	DLY	48.1167	-103.7500	2099	AWDN	03/1989 - 06/2021
ND	WILLISTON	62-0049	HL Y	48.1167	-103.7500	2099	AWDN	03/1989 - 07/2021
SK	MANKOTA	64-0017	DLY	49.1000	-107.0170	2723	NCEI	11/2012 - 11/2023
AB	FOREMOST AGDM ALTA	64-0019	DLY	49.4830	-111.4830	2890	NCEI	08/2004 - 11/2023
AB	BEAVER MINES	64-0025	DLY	49.4670	-114.1830	4124	NCEI	08/2004 - 11/2023
AB	MASINASIN AGDM	64-0028	DLY	49.1330	-111.6500	3110	NCEI	08/2004 - 11/2023
SK	WEYBURN SASK	64-0032	DLY	49.7000	-103.8000	1932	NCEI	12/1991 - 11/2023
AB	LETHBRIDGE DEMO FARM AGDM A	64-0035	DLY	49.6830	-112.7500	2963	NCEI	09/2004 - 11/2023
AB	BOW ISLAND IRRIGATION AGDM	64-0038	DLY	49.8670	-111.3830	2621	NCEI	09/2004 - 03/2022
AB	RAYMOND AGDM ALTA	64-0042	DLY	49.4830	-112.6830	3074	NCEI	08/2004 - 11/2023
AB	PINCHER CREEK CLIMATE	64-0044	DLY	49.5170	-114.0000	3904	NCEI	12/1992 - 11/2023
BC	NELSON BC	64-0046	DLY	49.4830	-117.3000	1755	NCEI	04/1995 - 11/2023
CO	MEEKER AIRPORT	64-0143	HL Y	40.0440	-107.8880	6367	NCEI	12/2005 - 11/2023
CO	MEEKER AIRPORT	64-0143	DLY	40.0440	-107.8880	6367	NCEI	12/2005 - 11/2023
CO	FORT COLLINS DOWNTOWN	64-0147	DLY	40.5880	-105.0420	4939	NCEI	01/1973 - 08/1994
CO	CRAIG-MOFFAT	64-0176	DLY	40.5000	-107.5330	6283	NCEI	08/1977 - 12/2005
UT	SALT LAKE CITY INTERNATIONAL	64-0184	HL Y	40.7710	-111.9650	4227	NCEI	12/1949 - 11/2023
UT	SALT LAKE CITY INTERNATIONAL	64-0184	DLY	40.7710	-111.9650	4227	NCEI	12/1972 - 11/2023

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
UT	HILL AFB AIRPORT	64-0193	HLY	41.1170	-111.9670	4789	NCEI	11/2006 - 11/2023
UT	HILL AFB AIRPORT	64-0193	DLY	41.1170	-111.9670	4789	NCEI	12/1972 - 11/2023
SD	ELLSWORTH AIR FORCE BASE	64-0235	DLY	44.1500	-103.1000	3278	NCEI	12/1970 - 11/2023
SD	ELLSWORTH AIR FORCE BASE	64-0235	HLY	44.1500	-103.1000	3278	NCEI	08/2006 - 11/2023
WA	SPOKANE INTERNATIONAL AIRPOR	64-0342	DLY	47.6220	-117.5280	2355	NCEI	12/1972 - 11/2023
WA	SPOKANE INTERNATIONAL AIRPOR	64-0342	HLY	47.6220	-117.5280	2355	NCEI	08/1948 - 11/2023
WA	FAIRCHILD AIR FORCE BASE	64-0345	HLY	47.6330	-117.6500	2461	NCEI	01/2007 - 11/2023
WA	FAIRCHILD AIR FORCE BASE	64-0345	DLY	47.6330	-117.6500	2461	NCEI	10/1947 - 11/2023
WA	COLVILLE MUNICIPAL ARPT	64-0355	DLY	48.5440	-117.8840	1886	NCEI	12/1989 - 04/2004
NE	POTTER 1.1 ESE	69-0014	DLY	41.2098	-103.2978	4370	NCEI	04/2004 - 12/2009
CO	BOULDER 1.4 NNW	69-0098	DLY	40.0311	-105.2883	5456	NCEI	04/2001 - 10/2023
CO	ALLENS PARK 1.5 ESE	69-0103	DLY	40.1869	-105.5002	8455	NCEI	04/2001 - 10/2023
CO	BOULDER 1.3 NW	69-0123	DLY	40.0242	-105.2689	5377	NCEI	07/2002 - 10/2023
CO	LONGMONT 2.8 E	69-0186	DLY	40.1724	-105.0592	4984	NCEI	04/2001 - 05/2014
CO	LONGMONT 1.8 ENE	69-0229	DLY	40.1848	-105.0820	5060	NCEI	02/2013 - 10/2023
CO	LONGMONT 1.8 E	69-0230	DLY	40.1697	-105.0779	5014	NCEI	08/2013 - 10/2023
CO	STERLING 1.8 NW	69-0328	DLY	40.6421	-103.2376	3999	NCEI	03/2001 - 09/2017
CO	STERLING 1.5 S	69-0337	DLY	40.6290	-103.2090	3938	NCEI	12/2011 - 10/2023
CO	STERLING 1.5 SSE	69-0339	DLY	40.6309	-103.2047	3937	NCEI	07/2013 - 01/2022
CO	DRAKE 3.0 NNE	69-0438	DLY	40.4700	-105.3092	6752	NCEI	05/2000 - 09/2020
CO	ESTES PARK 2.2 NE	69-0448	DLY	40.4018	-105.4878	7772	NCEI	03/2002 - 03/2018
CO	FCL 2.5 W	69-0461	DLY	40.5857	-105.1317	5118	NCEI	04/1998 - 10/2023
CO	FCL 3.0 W	69-0472	DLY	40.5876	-105.1473	5220	NCEI	04/1998 - 10/2023
CO	BLV 4.0 NW	69-0634	DLY	40.6754	-105.2150	5354	NCEI	05/1998 - 10/2023
CO	HUDSON 4.8 WSW	69-1120	DLY	40.0440	-104.7254	5036	NCEI	11/2002 - 10/2023

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
CO	NUNN 1.2 ENE	69-1183	DLY	40.7106	-104.7595	5202	NCEI	09/2010 - 10/2023
CO	KERSEY 1.3 WSW	69-1227	DLY	40.3802	-104.5842	4643	NCEI	03/2014 - 10/2023
ND	BEACH 0.3 SSE	69-1787	DLY	46.9095	-104.0050	2803	NCEI	01/2012 - 10/2023
OR	UNION 0.8 S	69-1811	DLY	45.1969	-117.8656	2772	NCEI	10/2009 - 12/2013
SD	HERMOSA 0.3 ENE	69-1834	DLY	43.8410	-103.1854	3294	NCEI	09/2009 - 10/2023
SD	SPEARFISH 0.1 WSW	69-1878	DLY	44.4882	-103.8493	3754	NCEI	03/2011 - 10/2023
UT	GARLAND 1.0 SE	69-1940	DLY	41.7267	-112.1482	4328	NCEI	12/2009 - 10/2023
UT	FARMINGTON 1.8 W	69-1977	DLY	40.9874	-111.9286	4239	NCEI	04/2008 - 10/2023
UT	SALT LAKE CITY 3.3 E	69-2008	DLY	40.7751	-111.8664	4568	NCEI	06/2008 - 10/2023
UT	SALT LAKE CITY 3.6 SE	69-2015	DLY	40.7336	-111.8332	4590	NCEI	09/2009 - 12/2015
UT	VERNAL 0.8 S	69-2051	DLY	40.4402	-109.5355	5351	NCEI	04/2016 - 06/2021
UT	HEBER CITY 2.4 SSE	69-2076	DLY	40.4733	-111.4020	5768	NCEI	09/2009 - 10/2023
WA	NEWPORT 0.4 W	69-2090	DLY	48.1803	-117.0593	2182	NCEI	09/2008 - 06/2014
BC	NELSON 0.6 SW	70-0007	DLY	49.4935	-117.2876	1955	NCEI	04/2015 - 10/2023
SK	WEYBURN 1 E	70-0014	DLY	49.6668	-103.8454	1856	NCEI	12/2014 - 10/2023
BC	BONNINGTON FALLS	71-0002	DLY	49.4613	-117.5031	1499	NCEI	11/1923 - 11/1939
BC	CASTLEGAR A	71-0005	DLY	49.3000	-117.6333	1627	NCEI	10/1965 - 10/2023
BC	CASTLEGAR BCHPA DAM	71-0006	DLY	49.3424	-117.7641	1427	NCEI	04/1969 - 10/2023
BC	CASTLEGAR ROBSON PUMPHOUSE	71-0007	DLY	49.3372	-117.7314	1427	NCEI	08/1998 - 06/2003
BC	COLUMBIA GARDENS	71-0008	DLY	49.0500	-117.6000	1421	NCEI	06/1937 - 05/1970
BC	COLUMBIA GARDENS NORTH	71-0009	DLY	49.0667	-117.6000	1601	NCEI	04/1970 - 05/1976
BC	CRESTON	71-0012	DLY	49.1000	-116.5167	2001	NCEI	04/1912 - 06/2015
BC	KASLO	71-0017	DLY	49.9167	-116.9167	1969	NCEI	05/1894 - 09/2018
BC	KINGSGATE	71-0018	DLY	49.0000	-116.1833	2690	NCEI	11/1923 - 04/1962
BC	NELSON	71-0022	DLY	49.4875	-117.3025	1772	NCEI	11/1903 - 10/1955

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
BC	NELSON NE	71-0023	DLY	49.5861	-117.2064	1870	NCEI	12/1982 - 08/2023
BC	NELSON 2	71-0026	DLY	49.5000	-117.2833	1982	NCEI	09/1955 - 12/1982
BC	NELSON VOCATIONAL SCHOOL	71-0027	DLY	49.4833	-117.3000	2228	NCEI	06/1972 - 01/1978
BC	NELSON CS	71-0029	DLY	49.4914	-117.3053	1755	NCEI	09/1992 - 10/2023
BC	ROBSON	71-0032	DLY	49.3333	-117.7000	1450	NCEI	12/1945 - 03/1980
BC	ROSSLAND CITY YARD	71-0033	DLY	49.0833	-117.8000	3409	NCEI	11/1899 - 10/2000
BC	ROSSLAND MACLEAN	71-0034	DLY	49.0833	-117.8000	3560	NCEI	07/1963 - 03/1990
BC	SOUTH SLOCAN	71-0037	DLY	49.4548	-117.5212	1499	NCEI	08/1940 - 12/2008
BC	TRAIL SUNNINGDALE	71-0040	DLY	49.1181	-117.7211	1421	NCEI	08/1959 - 12/1970
BC	WANETA	71-0041	DLY	49.0072	-117.5927	1831	NCEI	12/1912 - 08/1977
BC	WARFIELD	71-0042	DLY	49.0974	-117.7450	1988	NCEI	04/1928 - 12/2002
BC	WARFIELD RCS	71-0043	DLY	49.1122	-117.7385	1860	NCEI	05/2002 - 10/2023
BC	NELSON RIXEN CREEK	71-0048	DLY	49.5123	-117.3988	2577	NCEI	05/1990 - 10/2023
BC	CRANBROOK	71-0055	DLY	49.5000	-115.7833	3015	NCEI	07/1901 - 03/1939
BC	CRANBROOK A	71-0056	DLY	49.5333	-115.7667	3012	NCEI	12/1937 - 02/1968
BC	CRANBROOK A	71-0057	DLY	49.6167	-115.7833	3084	NCEI	01/1968 - 11/2012
BC	CRANBROOK MT BAKER	71-0059	DLY	49.5000	-115.7333	3301	NCEI	06/1972 - 08/1977
BC	CRANBROOK A	71-0060	DLY	49.6167	-115.7833	3084	NCEI	09/2012 - 10/2023
BC	ELKO	71-0062	DLY	49.3000	-115.1167	3054	NCEI	08/1923 - 05/1995
BC	FERNIE	71-0063	DLY	49.4833	-115.0667	3284	NCEI	10/1913 - 10/2023
BC	CRANBROOK CITY	71-0065	DLY	49.5167	-115.7667	3038	NCEI	05/1979 - 03/2003
BC	FT STEELE DANDY CRK	71-0067	DLY	49.5167	-115.4667	2808	NCEI	01/1968 - 10/2023
BC	KIMBERLEY PCC	71-0074	DLY	49.6333	-115.9667	2917	NCEI	04/1975 - 10/2023
BC	MARYSVILLE	71-0075	DLY	49.6333	-115.9500	3150	NCEI	06/1972 - 09/2009
BC	NATAL KAISER RESOURCES	71-0079	DLY	49.7500	-114.8833	3701	NCEI	03/1969 - 03/1980

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
BC	NEWGATE	71-0080	DLY	49.0219	-115.1861	2513	NCEI	01/1914 - 07/1960
BC	SPARWOOD	71-0081	DLY	49.7500	-114.8833	3734	NCEI	01/1980 - 02/2020
BC	WARDNER KTNV HATCHERY	71-0084	DLY	49.4667	-115.4667	2493	NCEI	08/1971 - 02/2021
BC	WASA	71-0085	DLY	49.8167	-115.6333	3182	NCEI	11/1923 - 12/2017
AB	BOW ISLAND	71-0093	DLY	49.8667	-111.3833	2621	NCEI	03/2003 - 07/2004
AB	BOW ISLAND EXP ST	71-0094	DLY	49.8667	-111.3667	2621	NCEI	11/1954 - 12/1959
AB	BOW ISLAND RIVERS DEV	71-0096	DLY	49.8667	-111.3667	2621	NCEI	07/1958 - 04/1976
AB	CALDWELL	71-0099	DLY	49.1667	-113.6333	4219	NCEI	09/1910 - 12/1990
AB	CARDSTON	71-0100	DLY	49.1333	-113.2500	3914	NCEI	06/1918 - 03/2005
AB	CARWAY	71-0103	DLY	49.0000	-113.3833	4442	NCEI	06/1914 - 11/2011
AB	CARWAY	71-0104	DLY	49.0000	-113.3833	4442	NCEI	11/2011 - 10/2023
AB	CONNELLY CREEK	71-0107	DLY	49.6167	-114.2167	4098	NCEI	08/1978 - 12/2011
AB	COWLEY OLIN CREEK	71-0111	DLY	49.7000	-114.0667	4049	NCEI	05/1961 - 06/2001
AB	CLARESHOLM MEADOW CREEK	71-0113	DLY	49.9333	-113.7333	3396	NCEI	08/1912 - 03/2005
AB	FOREMOST	71-0117	DLY	49.4833	-111.4500	2927	NCEI	06/1915 - 03/2005
AB	FOREMOST AGDM	71-0118	DLY	49.4833	-111.4833	2890	NCEI	10/2002 - 10/2023
AB	FOREMOST EXP ST	71-0120	DLY	49.4833	-111.4500	2920	NCEI	11/1953 - 07/1960
AB	FORT MACLEOD	71-0121	DLY	49.7167	-113.4000	3117	NCEI	07/1877 - 03/1988
AB	LETHBRIDGE	71-0138	DLY	49.6333	-112.8000	3048	NCEI	11/2010 - 10/2023
AB	LETHBRIDGE A	71-0140	DLY	49.6333	-112.8000	3048	NCEI	11/1937 - 07/2008
AB	LETHBRIDGE A CR10	71-0141	DLY	49.6333	-112.8000	3048	NCEI	02/1996 - 11/2007
AB	LETHBRIDGE AWOS A	71-0142	DLY	49.6333	-112.8000	3048	NCEI	11/2005 - 01/2011
AB	LETHBRIDGE CDA	71-0144	DLY	49.7000	-112.7667	2986	NCEI	12/1907 - 10/2020
AB	LETHBRIDGE DEMO FARM AGDM	71-0147	DLY	49.6833	-112.7500	2963	NCEI	05/2004 - 10/2023
AB	MONARCH	71-0152	DLY	49.8167	-113.1667	3107	NCEI	08/1980 - 11/2012

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
AB	MOUNTAIN VIEW	71-0153	DLY	49.1333	-113.6333	4393	NCEI	08/1912 - 03/2006
AB	PINCHER CREEK	71-0158	DLY	49.5167	-114.0000	3904	NCEI	05/2011 - 10/2023
AB	PINCHER CREEK	71-0159	DLY	49.5000	-113.9500	3789	NCEI	06/1960 - 05/1979
AB	PINCHER CREEK A	71-0160	DLY	49.5167	-114.0000	3904	NCEI	04/1979 - 03/1994
AB	PINCHER CREEK (AUT)	71-0161	DLY	49.5167	-114.0000	3904	NCEI	10/1992 - 06/2011
AB	PINCHER CREEK CLIMATE	71-0162	DLY	49.5167	-114.0000	3904	NCEI	02/1996 - 10/2023
AB	PINCHER CREEK TOWN	71-0166	DLY	49.5167	-113.9667	3757	NCEI	06/1893 - 03/1963
AB	RAYMOND	71-0168	DLY	49.4500	-112.7000	3140	NCEI	03/1910 - 12/1976
AB	SEVEN PERSONS	71-0170	DLY	49.8333	-110.9000	2480	NCEI	11/1910 - 11/2007
AB	TABER	71-0174	DLY	49.8000	-112.1167	2661	NCEI	12/1906 - 09/2023
AB	WINNIFRED	71-0177	DLY	49.9000	-111.2000	2726	NCEI	10/1928 - 01/1967
AB	ALTAWAN	71-0182	DLY	49.2500	-110.0167	3100	NCEI	09/1965 - 09/2007
AB	MANYBERRIES CDA	71-0196	DLY	49.1167	-110.4667	3064	NCEI	03/1928 - 12/1993
AB	MASINASIN	71-0199	DLY	49.1333	-111.6500	3127	NCEI	10/1980 - 09/2008
AB	ONEFOUR CDA	71-0207	DLY	49.1167	-110.4667	3068	NCEI	11/1994 - 10/2023
AB	BEAVER MINES	71-0219	DLY	49.4667	-114.1833	4124	NCEI	09/1912 - 03/2012
AB	CAMERON FALLS	71-0225	DLY	49.0500	-113.9167	4301	NCEI	12/1974 - 12/1995
AB	COLEMAN	71-0230	DLY	49.6333	-114.5833	4400	NCEI	08/1912 - 09/1997
AB	LUNDBRECK	71-0239	DLY	49.9167	-114.1333	4452	NCEI	01/1911 - 09/1958
AB	MOUNTAIN VIEW BIRDSEYE	71-0241	DLY	49.1167	-113.7333	4619	NCEI	07/1916 - 04/1981
AB	WATERTON PARK GATE	71-0249	DLY	49.1333	-113.8167	4229	NCEI	07/1994 - 10/2023
AB	WATERTON PARK HQ	71-0259	DLY	49.0500	-113.9167	4199	NCEI	11/1943 - 03/1973
AB	WATERTON RIVER CABIN	71-0261	DLY	49.1167	-113.8333	4203	NCEI	07/1949 - 12/1995
SK	AMULET	71-0269	DLY	49.6167	-104.7333	2388	NCEI	10/1970 - 05/2002
SK	CEYLON	71-0271	DLY	49.4667	-104.6000	2339	NCEI	01/1922 - 06/1978

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
SK	DAHINDA	71-0273	DLY	49.7333	-105.0333	2349	NCEI	03/1973 - 03/2012
SK	LAKE ALMA	71-0277	DLY	49.0667	-104.2500	2375	NCEI	03/1973 - 12/2006
SK	MACOUN	71-0278	DLY	49.2333	-103.2333	1873	NCEI	06/1971 - 03/2017
SK	MIDALE	71-0281	DLY	49.4000	-103.4000	1909	NCEI	04/1922 - 10/1991
SK	ORMISTON	71-0282	DLY	49.7167	-105.3667	2251	NCEI	05/1951 - 12/1998
SK	RADVILLE	71-0285	DLY	49.5000	-104.2833	2077	NCEI	07/1951 - 05/1996
SK	WEYBURN	71-0290	DLY	49.6500	-103.8333	1870	NCEI	05/1900 - 12/2012
SK	WEYBURN 2	71-0291	DLY	49.6667	-103.8500	1870	NCEI	06/1975 - 12/1993
SK	YELLOW GRASS	71-0292	DLY	49.8167	-104.1833	1903	NCEI	06/1911 - 07/2017
SK	WEYBURN	71-0293	DLY	49.7000	-103.8000	1932	NCEI	10/1992 - 10/2023
SK	ANEROID	71-0294	DLY	49.7167	-107.3000	2474	NCEI	03/1916 - 04/2005
SK	ASSINIBOIA	71-0295	DLY	49.7333	-105.9667	2375	NCEI	04/1915 - 07/1997
SK	ASSINIBOIA AIRPORT	71-0296	DLY	49.7333	-105.9500	2382	NCEI	10/1992 - 10/2023
SK	CYPRESS HILLS	71-0299	DLY	49.6667	-109.4667	3924	NCEI	03/1981 - 10/2014
SK	GARDEN HEAD	71-0301	DLY	49.8167	-108.5667	2969	NCEI	01/1911 - 11/1972
SK	GRAVELBOURG	71-0303	DLY	49.8833	-106.5500	2297	NCEI	06/1911 - 10/1994
SK	GULL LAKE CDA EPF	71-0305	DLY	49.9500	-108.4667	2976	NCEI	11/1955 - 10/1991
SK	ILLERBRUN	71-0308	DLY	49.8833	-108.3667	2927	NCEI	09/1910 - 09/1949
SK	KINCAID	71-0310	DLY	49.6667	-107.0000	2425	NCEI	04/1951 - 09/2000
SK	KLINTONEL	71-0311	DLY	49.6833	-108.9167	3524	NCEI	06/1910 - 01/1994
SK	LIMERICK	71-0313	DLY	49.5000	-106.2500	2490	NCEI	04/1951 - 08/1993
SK	MAPLE CREEK	71-0314	DLY	49.9000	-109.4667	2516	NCEI	10/1992 - 10/2023
SK	MAPLE CREEK	71-0315	DLY	49.9000	-109.4833	2507	NCEI	03/1884 - 07/1982
SK	MAPLE CREEK NORTH	71-0316	DLY	50.0000	-109.4667	2507	NCEI	06/1951 - 03/2008
SK	MAPLE CREEK CDA EPF	71-0317	DLY	49.9073	-109.4793	2500	NCEI	11/1953 - 08/1961

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
SK	MAPLE CREEK H S	71-0318	DLY	49.9000	-109.4833	2516	NCEI	04/1984 - 06/1985
SK	SHAUNAVON	71-0322	DLY	49.6500	-108.4000	3009	NCEI	04/1915 - 01/1979
SK	SHAUNAVON 2	71-0324	DLY	49.6500	-108.4167	2999	NCEI	07/1971 - 10/2003
SK	SHAUNAVON 3	71-0325	DLY	49.9000	-108.4167	2927	NCEI	07/1971 - 03/2008
SK	WOODROW	71-0327	DLY	49.5667	-106.7833	2395	NCEI	02/1962 - 01/2008
SK	CLAYDON	71-0333	DLY	49.1333	-109.1000	3199	NCEI	05/1971 - 08/2017
SK	CONSUL	71-0335	DLY	49.3000	-109.5167	3054	NCEI	10/1921 - 09/1970
SK	CONSUL	71-0336	DLY	49.3000	-109.4833	3091	NCEI	11/1950 - 11/1989
SK	CORONACH	71-0337	DLY	49.1167	-105.5167	2536	NCEI	04/1971 - 04/2018
SK	CORONACH SPC	71-0339	DLY	49.0500	-105.4833	2480	NCEI	10/1980 - 10/2023
SK	CYPRESS HILLS PARK	71-0340	DLY	49.6333	-109.5167	4170	NCEI	10/1992 - 10/2023
SK	CYPRESS HILLS PARK	71-0341	DLY	49.6689	-109.4992	3950	NCEI	05/1918 - 06/1972
SK	MANKOTA	71-0353	DLY	49.1000	-107.0167	2723	NCEI	06/1962 - 10/2023
SK	NASHLYN	71-0357	DLY	49.2000	-109.5167	3100	NCEI	11/1910 - 01/1979
SK	ROCKGLEN (AUT)	71-0360	DLY	49.1667	-105.9833	3009	NCEI	10/1970 - 10/2023
SK	VAL-MARIE	71-0363	DLY	49.3667	-107.8500	2651	NCEI	01/1937 - 05/2010
SK	WEST POPLAR RIVER	71-0369	DLY	49.0000	-106.3833	2874	NCEI	10/1956 - 06/2002
SK	WILLOW CREEK	71-0370	DLY	49.0167	-109.9167	2733	NCEI	10/1910 - 08/1974
CO	CRAIG-MOFFAT ARP	72-0001	HLY	40.4930	-107.5239	6181	SYNOPTIC	01/2000 - 12/2023
CO	MEEKER ARP	72-0002	HLY	40.0444	-107.8883	6365	SYNOPTIC	12/1998 - 12/2023
OR	ONTARIO MUNC ARP	72-2837	HLY	44.0142	-117.0081	2185	SYNOPTIC	12/1998 - 12/2023
OR	ROME	72-2839	HLY	42.5902	-117.8646	4055	SYNOPTIC	12/1998 - 12/2023
SD	BELLE FOURCHE RIV @ WY/SD STAT	72-2970	HLY	44.7497	-104.0469	3096	SYNOPTIC	03/2007 - 12/2023
UT	VERNAL ARP	72-3113	HLY	40.4430	-109.5127	5262	SYNOPTIC	12/1999 - 12/2023
WA	DEER PK, DEER PK ARP	72-3741	HLY	47.9742	-117.4283	2205	SYNOPTIC	12/1999 - 12/2023

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WA	SPOKANE, FELTS FLD	72-3744	HL Y	47.6856	-117.3203	1952	SYNOPTIC	12/1999 - 12/2023
WA	CHEWELAH	72-3829	HL Y	48.2732	-117.7410	1644	SYNOPTIC	06/2016 - 10/2021
CO	DINOSAUR N.M.	76-0006	HL Y	40.5086	-108.9106	5960	RAWS	07/1998 - 10/2021
CO	ERNIE GULCH	76-0008	HL Y	40.0458	-108.2000	7000	RAWS	07/1984 - 09/2013
CO	ESTES PARK	76-0009	HL Y	40.3667	-105.5500	7820	RAWS	03/2001 - 10/2021
CO	LODORE	76-0014	HL Y	40.7386	-108.8367	5940	RAWS	06/1987 - 10/2021
CO	NOVEMBER 01	76-0015	HL Y	40.6314	-103.8367	4794	RAWS	10/1999 - 03/2013
CO	PINTO	76-0017	HL Y	40.0097	-108.4597	6940	RAWS	01/1989 - 10/2021
ND	SAND CREEK	76-0333	HL Y	46.5456	-103.5183	2700	RAWS	08/1997 - 11/2021
NE	SCOTTS BLUFF	76-0334	HL Y	41.8167	-103.7000	4224	RAWS	08/2001 - 11/2021
ND	WATFORD CITY	76-0336	HL Y	47.7803	-103.2867	2165	RAWS	07/1997 - 11/2021
ND	BAKER PARK	76-0337	HL Y	43.9792	-103.4250	4674	RAWS	10/2001 - 11/2021
ND	CAMP CROOK	76-0338	HL Y	45.5625	-103.9917	3120	RAWS	05/1990 - 07/2007
ND	CUSTER	76-0340	HL Y	43.7500	-103.6333	5200	RAWS	05/2000 - 11/2021
ND	WICA-ELK MOUNTAIN	76-0341	HL Y	43.5576	-103.4835	4110	RAWS	06/1996 - 11/2021
ND	NEMO	76-0345	HL Y	44.1917	-103.5097	4644	RAWS	05/1993 - 11/2021
ND	RED CANYON	76-0347	HL Y	43.4258	-103.7589	4644	RAWS	05/1993 - 11/2021
NV	LONG HOLLOW	76-0357	HL Y	41.5386	-116.2175	5820	RAWS	09/1986 - 10/2021
OR	BLUE CANYON	76-0366	HL Y	44.6700	-117.9336	4200	RAWS	09/1986 - 10/2021
OR	EDEN	76-0370	HL Y	45.9267	-117.5883	4200	RAWS	05/1990 - 10/2021
OR	FLAGSTAFF HILL	76-0371	HL Y	44.8142	-117.7289	3945	RAWS	03/1999 - 10/2021
OR	GRASSY MOUNTAIN	76-0373	HL Y	42.6261	-117.3950	4560	RAWS	01/1985 - 10/2021
OR	KELSAY BUTTE	76-0375	HL Y	43.9014	-117.9858	5187	RAWS	01/1985 - 10/2021
OR	OWYHEE RIDGE	76-0381	HL Y	43.5833	-117.2333	4400	RAWS	01/1985 - 10/2021
OR	ROBERTS BUTTE	76-0386	HL Y	45.6817	-117.2064	4263	RAWS	10/1998 - 10/2021

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
UT	CART CREEK	76-0393	HL Y	40.8847	-109.4122	6900	RAWS	07/1985 - 10/2021
UT	DIAMOND RIM	76-0395	HL Y	40.6172	-109.2428	7730	RAWS	11/1983 - 10/2021
UT	HEWINTA	76-0398	HL Y	40.9503	-110.4842	9515	RAWS	07/1984 - 10/2021
UT	KINGS POINT - DUTCH JOHN 16ESE	76-0399	HL Y	40.8606	-109.1022	5670	RAWS	09/1985 - 10/2021
UT	PLEASANT GROVE	76-0406	HL Y	40.4311	-111.7500	5200	RAWS	06/1997 - 10/2021
UT	YAMPA PLATEAU - JENSEN 7SSE	76-0418	HL Y	40.2780	-109.2888	5240	RAWS	02/1984 - 10/2021
UT	YELLOWSTONE - ALTAMONT 13NNW	76-0419	HL Y	40.5436	-110.3294	7800	RAWS	06/1983 - 10/2021
SD	BUFFALO ASOS	78-0001	15M	45.6044	-103.5464	3004	NCEI	03/2005 - 10/2021
NE	CHADRON MUNI AP	78-0013	15M	42.8374	-103.0981	3294	NCEI	03/2005 - 10/2021
CO	MEEKER AIRPORT	78-0021	15M	40.0442	-107.8886	6366	NCEI	03/2005 - 10/2021
OR	ONTARIO	78-0046	15M	44.0206	-117.0128	2193	NCEI	03/2005 - 10/2021
UT	SALT LAKE CITY INTL AP	78-0058	15M	40.7781	-111.9694	4225	NCEI	01/2000 - 10/2021
SD	ELLSWORTH AFB	79-0016	DLY	44.1500	-103.1000	3215	NCEI	11/1948 - 12/1970
NE	CHADRON MUNI AP	79-0017	DLY	42.8375	-103.0953	3318	NCEI	06/2000 - 10/2023
NE	SCOTTSBLUFF HEILIG AP	79-0023	DLY	41.8706	-103.5931	3945	NCEI	11/1892 - 10/2023
CO	CRAIG MOFFAT CO AP	79-0031	DLY	40.4953	-107.5211	6186	NCEI	01/1998 - 10/2023
UT	OGDEN HILL AFB	79-0038	DLY	41.1167	-111.9667	4787	NCEI	04/1946 - 12/1970
WA	FAIRCHILD AFB	79-0041	DLY	47.6333	-117.6500	2438	NCEI	11/1948 - 12/1970
UT	COALVILLE	79-0043	DLY	40.9139	-111.3983	5550	NCEI	11/1893 - 05/2012
UT	SALT LAKE CITY INTL AP	79-0046	DLY	40.7781	-111.9694	4225	NCEI	11/1947 - 10/2023
OR	BAKER CITY MUNI AP	79-0047	DLY	44.8428	-117.8086	3361	NCEI	03/1943 - 10/2023
WA	SPOKANE INTL AP	79-0068	DLY	47.6217	-117.5281	2353	NCEI	06/1889 - 10/2023
OR	ONTARIO MUNI AP	79-0072	DLY	44.0206	-117.0128	2190	NCEI	01/1998 - 10/2023
UT	SALT LAKE CITY	79-0074	DLY	40.7667	-111.8833	4304	NCEI	11/1927 - 07/1954
OR	BAKER KBKR	79-0075	DLY	44.7667	-117.8333	3445	NCEI	11/1927 - 12/1981

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
ND	WILLISTON SLOULIN INTL AP	79-0080	DLY	48.1739	-103.6367	1902	NCEI	11/1893 - 10/2019
UT	VERNAL MUNICIPAL AP	79-0083	DLY	40.4422	-109.5144	5260	NCEI	01/1998 - 10/2023
SD	BUFFALO ASOS	79-0085	DLY	45.6044	-103.5464	3004	NCEI	02/1998 - 10/2023
CO	MEEKER AP	79-0086	DLY	40.0489	-107.8853	6390	NCEI	07/1998 - 10/2023
OR	ROME ST AP	79-0106	DLY	42.5906	-117.8644	4050	NCEI	08/1949 - 10/2023
WA	DEER PARK AP	79-0107	DLY	47.9742	-117.4283	2191	NCEI	09/1998 - 10/2023
UT	LOGAN CACHE AP	79-0108	DLY	41.7872	-111.8533	4454	NCEI	08/1998 - 10/2023
WA	SPOKANE FELTS FLD	79-0114	DLY	47.6831	-117.3214	1953	NCEI	08/1998 - 10/2023
CO	UNIVERSITY CAMP	80-0010	DLY	40.0300	-105.5800	10300	NCEI	08/1978 - 10/2023
UT	DANIELS-STRAWBERRY	80-0222	DLY	40.3000	-111.2600	8037	NCEI	08/1978 - 10/2023
OR	ANEROID LAKE #2	86-0302	DLY	45.2133	-117.1926	7400	SNOTEL	10/1980 - 11/2023
OR	ANEROID LAKE #2	86-0302	HLY	45.2133	-117.1926	7400	SNOTEL	10/1980 - 02/2022
NV	BEAR CREEK	86-0321	DLY	41.8338	-115.4528	8040	SNOTEL	10/1978 - 11/2023
NV	BEAR CREEK	86-0321	HLY	41.8338	-115.4528	8040	SNOTEL	10/1978 - 02/2022
CO	BEAR LAKE	86-0322	HLY	40.3118	-105.6467	9500	SNOTEL	10/1980 - 02/2022
CO	BEAR LAKE	86-0322	DLY	40.3118	-105.6467	9500	SNOTEL	10/1980 - 11/2023
UT	BEAVER DIVIDE	86-0330	DLY	40.6123	-111.0978	8280	SNOTEL	10/1978 - 11/2023
UT	BEAVER DIVIDE	86-0330	HLY	40.6123	-111.0978	8280	SNOTEL	10/1978 - 02/2022
UT	BEN LOMOND PEAK	86-0332	DLY	41.3760	-111.9441	7689	SNOTEL	10/1978 - 11/2023
UT	BEN LOMOND PEAK	86-0332	HLY	41.3760	-111.9441	7689	SNOTEL	10/1978 - 02/2022
UT	BEN LOMOND TRAIL	86-0333	DLY	41.3829	-111.9210	5972	SNOTEL	09/1980 - 11/2023
UT	BEN LOMOND TRAIL	86-0333	HLY	41.3829	-111.9210	5972	SNOTEL	10/1980 - 02/2022
NV	BIG BEND	86-0336	DLY	41.7617	-115.6931	6898	SNOTEL	10/1978 - 11/2023
NV	BIG BEND	86-0336	HLY	41.7617	-115.6931	6898	SNOTEL	10/1978 - 02/2022
SD	BLIND PARK	86-0354	DLY	44.1077	-103.9769	6890	SNOTEL	06/1990 - 11/2023

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
SD	BLIND PARK	86-0354	HL Y	44.1077	-103.9769	6890	SNOTEL	06/1990 - 02/2022
UT	BRIGHTON	86-0366	DLY	40.5994	-111.5817	8766	SNOTEL	09/1986 - 11/2023
UT	BRIGHTON	86-0366	HL Y	40.5994	-111.5817	8766	SNOTEL	09/1986 - 02/2022
UT	BROWN DUCK	86-0368	DLY	40.5810	-110.5859	10574	SNOTEL	10/1978 - 11/2023
UT	BROWN DUCK	86-0368	HL Y	40.5810	-110.5859	10574	SNOTEL	10/1978 - 02/2022
NV	BUCKSKIN LOWER	86-0373	HL Y	41.7507	-117.5318	6930	SNOTEL	10/1980 - 02/2022
NV	BUCKSKIN LOWER	86-0373	DLY	41.7507	-117.5318	6930	SNOTEL	10/1980 - 11/2023
UT	BUG LAKE	86-0374	HL Y	41.6854	-111.4199	7987	SNOTEL	10/1978 - 02/2022
UT	BUG LAKE	86-0374	DLY	41.6854	-111.4199	7987	SNOTEL	10/1978 - 11/2023
WA	BUNCHGRASS MDW	86-0376	DLY	48.6869	-117.1763	5000	SNOTEL	10/1981 - 11/2023
WA	BUNCHGRASS MDW	86-0376	HL Y	48.6869	-117.1763	5000	SNOTEL	10/1981 - 02/2022
UT	CHALK CREEK #1	86-0392	DLY	40.8546	-111.0477	9171	SNOTEL	10/1978 - 11/2023
UT	CHALK CREEK #1	86-0392	HL Y	40.8546	-111.0477	9171	SNOTEL	10/1978 - 02/2022
UT	CHALK CREEK #2	86-0393	DLY	40.8853	-111.0695	8208	SNOTEL	10/1978 - 11/2023
UT	CHALK CREEK #2	86-0393	HL Y	40.8853	-111.0695	8208	SNOTEL	10/1978 - 02/2022
UT	CHEPETA	86-0396	DLY	40.7746	-110.0105	10499	SNOTEL	09/1980 - 11/2023
UT	CHEPETA	86-0396	HL Y	40.7746	-110.0105	10499	SNOTEL	10/1980 - 02/2022
CO	COLUMBINE	86-0408	HL Y	40.3948	-106.6041	9160	SNOTEL	02/1979 - 02/2022
CO	COLUMBINE	86-0408	DLY	40.3948	-106.6041	9160	SNOTEL	03/1979 - 11/2023
CO	COPELAND LAKE	86-0412	HL Y	40.2078	-105.5686	8600	SNOTEL	10/1980 - 02/2022
CO	COPELAND LAKE	86-0412	DLY	40.2078	-105.5686	8600	SNOTEL	10/1980 - 11/2023
CO	CROSHO	86-0426	DLY	40.1674	-107.0575	9100	SNOTEL	10/1986 - 11/2023
CO	CROSHO	86-0426	HL Y	40.1674	-107.0575	9100	SNOTEL	10/1986 - 02/2022
UT	CURRANT CREEK	86-0432	DLY	40.3575	-111.0899	7915	SNOTEL	10/1978 - 11/2023
UT	CURRANT CREEK	86-0432	HL Y	40.3575	-111.0899	7915	SNOTEL	10/1978 - 02/2022

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
UT	DANIELS-STRAWBERRY	86-0435	HL Y	40.2953	-111.2568	8008	SNOTEL	10/1978 - 02/2022
UT	DANIELS-STRAWBERRY	86-0435	DLY	40.2953	-111.2568	8008	SNOTEL	10/1978 - 11/2023
CO	DEADMAN HILL	86-0438	HL Y	40.8057	-105.7699	10220	SNOTEL	10/1978 - 02/2022
CO	DEADMAN HILL	86-0438	DLY	40.8057	-105.7699	10220	SNOTEL	10/1978 - 11/2023
NV	DRAW CREEK	86-0454	HL Y	41.6610	-115.3234	7332	SNOTEL	10/1983 - 02/2022
NV	DRAW CREEK	86-0454	DLY	41.6610	-115.3234	7332	SNOTEL	10/1983 - 11/2023
UT	DRY BREAD POND	86-0455	HL Y	41.4129	-111.5377	8302	SNOTEL	10/1978 - 02/2022
UT	DRY BREAD POND	86-0455	DLY	41.4129	-111.5377	8302	SNOTEL	10/1978 - 11/2023
CO	DRY LAKE	86-0457	HL Y	40.5340	-106.7813	8400	SNOTEL	10/1980 - 02/2022
CO	DRY LAKE	86-0457	DLY	40.5340	-106.7813	8400	SNOTEL	10/1980 - 11/2023
OR	EILERTSON MEADOWS	86-0464	HL Y	44.8689	-118.1139	5510	SNOTEL	10/1980 - 02/2022
OR	EILERTSON MEADOWS	86-0464	DLY	44.8689	-118.1139	5510	SNOTEL	10/1980 - 11/2023
CO	ELK RIVER	86-0467	HL Y	40.8478	-106.9687	8700	SNOTEL	10/1978 - 02/2022
CO	ELK RIVER	86-0467	DLY	40.8478	-106.9687	8700	SNOTEL	10/1978 - 11/2023
UT	FARMINGTON	86-0474	DLY	40.9746	-111.8098	7902	SNOTEL	10/1978 - 11/2023
UT	FARMINGTON	86-0474	HL Y	40.9746	-111.8098	7902	SNOTEL	10/1978 - 02/2022
NV	FAWN CREEK	86-0476	HL Y	41.8210	-116.1015	7031	SNOTEL	10/1980 - 02/2022
NV	FAWN CREEK	86-0476	DLY	41.8210	-116.1015	7031	SNOTEL	10/1980 - 11/2023
UT	FIVE POINTS LAKE	86-0481	DLY	40.7178	-110.4672	10943	SNOTEL	08/1980 - 11/2023
UT	FIVE POINTS LAKE	86-0481	HL Y	40.7178	-110.4672	10943	SNOTEL	08/1980 - 02/2022
NV	GRANITE PEAK	86-0498	DLY	41.6703	-117.5667	8503	SNOTEL	10/1980 - 11/2023
NV	GRANITE PEAK	86-0498	HL Y	41.6703	-117.5667	8503	SNOTEL	10/1980 - 02/2022
UT	LAKEFORK BASIN	86-0513	DLY	40.7379	-110.6212	10885	SNOTEL	01/1982 - 11/2023
UT	LAKEFORK BASIN	86-0513	HL Y	40.7379	-110.6212	10885	SNOTEL	03/1982 - 02/2022
UT	HAYDEN FORK	86-0517	HL Y	40.7967	-110.8847	9130	SNOTEL	10/1978 - 02/2022

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
UT	HAYDEN FORK	86-0517	DLY	40.7967	-110.8847	9130	SNOTEL	10/1978 - 11/2023
UT	HEWINTA	86-0521	DLY	40.9501	-110.4842	9500	SNOTEL	09/1985 - 11/2023
UT	HEWINTA	86-0521	HLY	40.9501	-110.4842	9500	SNOTEL	10/1985 - 02/2022
UT	HICKERSON PARK	86-0522	DLY	40.9066	-109.9629	9122	SNOTEL	09/1985 - 11/2023
UT	HICKERSON PARK	86-0522	HLY	40.9066	-109.9629	9122	SNOTEL	10/1985 - 02/2022
UT	HOLE-IN-ROCK	86-0528	HLY	40.9217	-110.1862	9168	SNOTEL	09/1985 - 02/2022
UT	HOLE-IN-ROCK	86-0528	DLY	40.9217	-110.1862	9168	SNOTEL	09/1985 - 11/2023
UT	HORSE RIDGE	86-0533	HLY	41.3137	-111.4462	8199	SNOTEL	10/1978 - 02/2022
UT	HORSE RIDGE	86-0533	DLY	41.3137	-111.4462	8199	SNOTEL	10/1978 - 11/2023
NV	JACK CREEK UPPER	86-0548	DLY	41.5467	-116.0052	7377	SNOTEL	10/1978 - 11/2023
NV	JACK CREEK UPPER	86-0548	HLY	41.5467	-116.0052	7377	SNOTEL	10/1978 - 02/2022
NV	JACKS PEAK	86-0549	HLY	41.5136	-116.0117	8424	SNOTEL	10/1981 - 02/2022
NV	JACKS PEAK	86-0549	DLY	41.5136	-116.0117	8424	SNOTEL	10/1981 - 11/2023
CO	JOE WRIGHT	86-0551	HLY	40.5322	-105.8870	10120	SNOTEL	10/1978 - 02/2022
CO	JOE WRIGHT	86-0551	DLY	40.5322	-105.8870	10120	SNOTEL	10/1978 - 11/2023
UT	KINGS CABIN	86-0559	HLY	40.7163	-109.5440	8728	SNOTEL	10/1978 - 02/2022
UT	KINGS CABIN	86-0559	DLY	40.7163	-109.5440	8728	SNOTEL	10/1978 - 11/2023
CO	LAKE IRENE	86-0565	HLY	40.4143	-105.8198	10700	SNOTEL	10/1978 - 02/2022
CO	LAKE IRENE	86-0565	DLY	40.4143	-105.8198	10700	SNOTEL	10/1978 - 11/2023
UT	LAKEFORK #1	86-0566	HLY	40.5971	-110.4332	10128	SNOTEL	10/1978 - 02/2022
UT	LAKEFORK #1	86-0566	DLY	40.5971	-110.4332	10128	SNOTEL	10/1978 - 11/2023
NV	LAMANCE CREEK	86-0569	HLY	41.5154	-117.6320	6395	SNOTEL	10/1980 - 02/2022
NV	LAMANCE CREEK	86-0569	DLY	41.5154	-117.6320	6395	SNOTEL	10/1980 - 11/2023
NV	LAUREL DRAW	86-0573	HLY	41.7764	-116.0296	6682	SNOTEL	10/1979 - 02/2022
NV	LAUREL DRAW	86-0573	DLY	41.7764	-116.0296	6682	SNOTEL	10/1979 - 11/2023

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
UT	LILY LAKE	86-0579	DLY	40.8649	-110.7981	9133	SNOTEL	10/1980 - 11/2023
UT	LILY LAKE	86-0579	HLY	40.8649	-110.7981	9133	SNOTEL	10/1980 - 02/2022
UT	LITTLE BEAR	86-0582	DLY	41.4056	-111.8261	6548	SNOTEL	10/1978 - 11/2023
UT	LITTLE BEAR	86-0582	HLY	41.4056	-111.8261	6548	SNOTEL	10/1978 - 02/2022
UT	LOOKOUT PEAK	86-0596	DLY	40.8373	-111.7096	8161	SNOTEL	06/1988 - 11/2023
UT	LOOKOUT PEAK	86-0596	HLY	40.8373	-111.7096	8161	SNOTEL	06/1988 - 02/2022
CO	LYNX PASS	86-0607	DLY	40.0781	-106.6703	8880	SNOTEL	10/1980 - 11/2023
CO	LYNX PASS	86-0607	HLY	40.0781	-106.6703	8880	SNOTEL	10/1980 - 02/2022
UT	MILL-D NORTH	86-0628	HLY	40.6588	-111.6368	8963	SNOTEL	10/1988 - 02/2022
UT	MILL-D NORTH	86-0628	DLY	40.6588	-111.6368	8963	SNOTEL	10/1988 - 11/2023
UT	MONTE CRISTO	86-0634	HLY	41.4655	-111.4969	8932	SNOTEL	10/1978 - 02/2022
UT	MONTE CRISTO	86-0634	DLY	41.4655	-111.4969	8932	SNOTEL	10/1978 - 11/2023
UT	MOSBY MTN.	86-0643	HLY	40.6080	-109.8881	9553	SNOTEL	10/1978 - 02/2022
UT	MOSBY MTN.	86-0643	DLY	40.6080	-109.8881	9553	SNOTEL	10/1978 - 11/2023
OR	MOSS SPRINGS	86-0647	DLY	45.2717	-117.6875	5760	SNOTEL	10/1980 - 11/2023
OR	MOSS SPRINGS	86-0647	HLY	45.2717	-117.6875	5760	SNOTEL	10/1980 - 02/2022
OR	MT. HOWARD	86-0653	DLY	45.2652	-117.1737	7910	SNOTEL	10/1980 - 11/2023
OR	MT. HOWARD	86-0653	HLY	45.2652	-117.1737	7910	SNOTEL	10/1980 - 02/2022
CO	NIWOT	86-0663	HLY	40.0352	-105.5443	9910	SNOTEL	10/1980 - 02/2022
CO	NIWOT	86-0663	DLY	40.0352	-105.5443	9910	SNOTEL	10/1980 - 11/2023
UT	PARLEYS SUMMIT	86-0684	DLY	40.7618	-111.6292	7585	SNOTEL	10/1978 - 11/2023
UT	PARLEYS SUMMIT	86-0684	HLY	40.7618	-111.6292	7585	SNOTEL	10/1978 - 02/2022
CO	PHANTOM VALLEY	86-0688	HLY	40.3994	-105.8476	9030	SNOTEL	10/1980 - 02/2022
CO	PHANTOM VALLEY	86-0688	DLY	40.3994	-105.8476	9030	SNOTEL	10/1980 - 11/2023
WA	QUARTZ PEAK	86-0707	HLY	47.8793	-117.0894	4700	SNOTEL	10/1986 - 02/2022

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WA	QUARTZ PEAK	86-0707	DLY	47.8793	-117.0894	4700	SNOTEL	10/1986 - 11/2023
CO	RABBIT EARS	86-0709	DLY	40.3678	-106.7404	9400	SNOTEL	10/1986 - 11/2023
CO	RABBIT EARS	86-0709	HLY	40.3678	-106.7404	9400	SNOTEL	10/1986 - 02/2022
CO	RIPPLE CREEK	86-0717	HLY	40.1081	-107.2941	10340	SNOTEL	10/1986 - 02/2022
CO	RIPPLE CREEK	86-0717	DLY	40.1081	-107.2941	10340	SNOTEL	10/1986 - 11/2023
CO	ROACH	86-0718	HLY	40.8750	-106.0460	9700	SNOTEL	10/1980 - 02/2022
CO	ROACH	86-0718	DLY	40.8750	-106.0460	9700	SNOTEL	10/1980 - 11/2023
UT	ROCK CREEK	86-0720	HLY	40.5488	-110.6929	7886	SNOTEL	10/1980 - 02/2022
UT	ROCK CREEK	86-0720	DLY	40.5488	-110.6929	7886	SNOTEL	09/1980 - 11/2023
OR	SCHNEIDER MEADOWS	86-0736	DLY	45.0011	-117.1652	5400	SNOTEL	10/1980 - 11/2023
OR	SCHNEIDER MEADOWS	86-0736	HLY	45.0011	-117.1652	5400	SNOTEL	10/1980 - 02/2022
NV	SEVENTYSIX CREEK	86-0746	HLY	41.7373	-115.4722	7350	SNOTEL	10/1978 - 02/2022
NV	SEVENTYSIX CREEK	86-0746	DLY	41.7373	-115.4722	7350	SNOTEL	10/1978 - 11/2023
UT	SMITH MOREHOUSE	86-0763	HLY	40.7893	-111.0919	7631	SNOTEL	10/1978 - 02/2022
UT	SMITH MOREHOUSE	86-0763	DLY	40.7893	-111.0919	7631	SNOTEL	10/1978 - 11/2023
UT	SNOWBIRD	86-0766	HLY	40.5691	-111.6585	9177	SNOTEL	08/1989 - 02/2022
UT	SNOWBIRD	86-0766	DLY	40.5691	-111.6585	9177	SNOTEL	08/1989 - 11/2023
UT	STEEL CREEK PARK	86-0790	HLY	40.9086	-110.5046	10158	SNOTEL	10/1978 - 02/2022
UT	STEEL CREEK PARK	86-0790	DLY	40.9086	-110.5046	10158	SNOTEL	10/1978 - 11/2023
UT	STRAWBERRY DIVIDE	86-0795	DLY	40.1648	-111.2066	8123	SNOTEL	10/1978 - 11/2023
UT	STRAWBERRY DIVIDE	86-0795	HLY	40.1648	-111.2066	8123	SNOTEL	10/1978 - 02/2022
NV	TAYLOR CANYON	86-0811	DLY	41.2287	-116.0293	6325	SNOTEL	10/1980 - 11/2023
NV	TAYLOR CANYON	86-0811	HLY	41.2287	-116.0293	6325	SNOTEL	10/1980 - 02/2022
OR	TAYLOR GREEN	86-0812	HLY	45.0771	-117.5507	5740	SNOTEL	10/1979 - 02/2022
OR	TAYLOR GREEN	86-0812	DLY	45.0771	-117.5507	5740	SNOTEL	10/1979 - 11/2023

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
UT	THAYNES CANYON	86-0814	HL Y	40.6235	-111.5332	9230	SNOTEL	06/1988 - 02/2022
UT	THAYNES CANYON	86-0814	DLY	40.6235	-111.5332	9230	SNOTEL	06/1988 - 11/2023
UT	TIMPANOGOS DIVIDE	86-0820	DLY	40.4282	-111.6163	8140	SNOTEL	10/1978 - 11/2023
UT	TIMPANOGOS DIVIDE	86-0820	HL Y	40.4282	-111.6163	8140	SNOTEL	10/1978 - 02/2022
WA	TOUCHET	86-0824	HL Y	46.1187	-117.8505	5530	SNOTEL	10/1980 - 02/2022
WA	TOUCHET	86-0824	DLY	46.1187	-117.8505	5530	SNOTEL	10/1980 - 11/2023
CO	TOWER	86-0825	DLY	40.5374	-106.6768	10500	SNOTEL	08/1979 - 11/2023
CO	TOWER	86-0825	HL Y	40.5374	-106.6768	10500	SNOTEL	09/1979 - 02/2022
UT	TRIAL LAKE	86-0828	HL Y	40.6780	-110.9487	9992	SNOTEL	10/1978 - 02/2022
UT	TRIAL LAKE	86-0828	DLY	40.6780	-110.9487	9992	SNOTEL	10/1978 - 11/2023
UT	TROUT CREEK	86-0833	DLY	40.7390	-109.6728	9518	SNOTEL	10/1978 - 11/2023
UT	TROUT CREEK	86-0833	HL Y	40.7390	-109.6728	9518	SNOTEL	10/1978 - 02/2022
CO	UNIVERSITY CAMP	86-0838	DLY	40.0328	-105.5761	10300	SNOTEL	10/1978 - 11/2023
CO	UNIVERSITY CAMP	86-0838	HL Y	40.0328	-105.5761	10300	SNOTEL	10/1978 - 02/2022
CO	WILLOW CREEK PASS	86-0869	HL Y	40.3470	-106.0943	9540	SNOTEL	10/1978 - 02/2022
CO	WILLOW CREEK PASS	86-0869	DLY	40.3470	-106.0943	9540	SNOTEL	10/1978 - 11/2023
CO	WILLOW PARK	86-0870	DLY	40.4325	-105.7334	10700	SNOTEL	07/1980 - 11/2023
CO	WILLOW PARK	86-0870	HL Y	40.4325	-105.7334	10700	SNOTEL	07/1980 - 02/2022
UT	HARDSCRABBLE	86-0896	DLY	40.8683	-111.7187	7250	SNOTEL	10/1993 - 11/2023
UT	HARDSCRABBLE	86-0896	HL Y	40.8683	-111.7187	7250	SNOTEL	10/1993 - 02/2022
SD	NORTH RAPID CREEK	86-0920	DLY	44.2062	-103.7876	6130	SNOTEL	10/1996 - 11/2023
SD	NORTH RAPID CREEK	86-0920	HL Y	44.2062	-103.7876	6130	SNOTEL	09/1996 - 02/2022
UT	PARRISH CREEK	86-0971	DLY	40.9342	-111.8137	7740	SNOTEL	10/1999 - 11/2023
UT	PARRISH CREEK	86-0971	HL Y	40.9342	-111.8137	7740	SNOTEL	08/1999 - 02/2022
WA	SPRUCE SPRINGS	86-0984	HL Y	46.1829	-117.5415	5700	SNOTEL	07/2000 - 02/2022

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WA	SPRUCE SPRINGS	86-0984	DLY	46.1829	-117.5415	5700	SNOTEL	10/2000 - 11/2023
UT	TEMPLE FORK	86-1013	DLY	41.7930	-111.5461	7406	SNOTEL	11/2001 - 11/2023
UT	TEMPLE FORK	86-1013	HL Y	41.7930	-111.5461	7406	SNOTEL	11/2001 - 02/2022
UT	LIGHTNING RIDGE	86-1056	DLY	41.3589	-111.4875	8215	SNOTEL	10/2004 - 11/2023
UT	LIGHTNING RIDGE	86-1056	HL Y	41.3589	-111.4875	8215	SNOTEL	07/2004 - 02/2022
SD	ANGOSTURA RESERVOIR (CHEYENNE	87-0003	15M	43.3433	-103.4383	3200	USBR	03/2004 - 02/2022
SD	ANGOSTURA RESERVOIR (CHEYENNE	87-0003	HL Y	43.3433	-103.4383	3200	USBR	03/2004 - 03/2022
SD	BELLE FOURCHE RVR @ WYOMING-SO	87-0143	15M	44.7497	-104.0469	3100	USBR	06/2000 - 11/2018
SD	BELLE FOURCHE RVR @ WYOMING-SO	87-0143	HL Y	44.7497	-104.0469	3100	USBR	06/2000 - 11/2018
SD	CHEYENNE RIVER AT EDMONT, SO	87-0644	HL Y	43.3056	-103.8206	3415	USBR	01/1985 - 03/2022
SD	CHEYENNE RIVER AT EDMONT, SO	87-0644	15M	43.3056	-103.8206	3415	USBR	01/1985 - 02/2022
WY	NORTH PLATTE RIVER AT WYOMING-	87-1044	15M	41.9903	-104.0492	4021	USBR	05/1989 - 02/2022
WY	NORTH PLATTE RIVER AT WYOMING-	87-1044	HL Y	41.9903	-104.0492	4021	USBR	05/1987 - 03/2022
NE	MITCHELL GERIN CANAL NEAR STA	87-1394	HL Y	41.9828	-104.0578	4028	USBR	04/1989 - 10/2021
NE	MITCHELL GERIN CANAL NEAR STA	87-1394	15M	41.9828	-104.0578	4028	USBR	04/1989 - 10/2021
NE	WEATHER STATION AT MINATARE DA	87-2374	15M	41.9178	-103.4842	4144	USBR	10/1989 - 02/2022
NE	WEATHER STATION AT MINATARE DA	87-2374	HL Y	41.9178	-103.4842	4144	USBR	10/1989 - 03/2022
OR	BALTZOR RANCH NEAR SHEAVILLE,	87-2631	HL Y	43.1070	-117.0604	4620	USBR	09/1982 - 03/2022
OR	BALTZOR RANCH NEAR SHEAVILLE,	87-2631	15M	43.1070	-117.0604	4620	USBR	09/1982 - 02/2022
OR	BAKER VALLEY, OREGON AGRIMET W	87-2761	HL Y	44.8828	-117.9628	3420	USBR	05/2001 - 03/2022
OR	BAKER VALLEY, OREGON AGRIMET W	87-2761	15M	44.8828	-117.9628	1042	USBR	04/2012 - 02/2022
OR	DANNER, OR	87-3121	15M	42.9403	-117.3404	4225	USBR	11/1982 - 02/2022
OR	DANNER, OR	87-3121	HL Y	42.9403	-117.3404	4225	USBR	10/1982 - 03/2022
OR	HEREFORD, OREGON AGRIMET WEATH	87-3671	HL Y	44.4881	-118.0200	3600	USBR	04/1998 - 03/2022
OR	HEREFORD, OREGON AGRIMET WEATH	87-3671	15M	44.4881	-118.0200	1097	USBR	04/2012 - 02/2022

State	Station name	SID	Formatting Interval	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
OR	MCDERMITT, OR 26N	87-4061	15M	42.4106	-117.8628	4464	USBR	10/1982 - 02/2022
OR	MCDERMITT, OR 26N	87-4061	HL Y	42.4106	-117.8628	4464	USBR	10/1982 - 03/2022
OR	ONTARIO, OREGON AGRIMET WEATHE	87-4351	HL Y	43.9778	-117.0153	2260	USBR	05/1992 - 03/2022
OR	ONTARIO, OREGON AGRIMET WEATHE	87-4351	15M	43.9778	-117.0153	689	USBR	03/2012 - 02/2022
CO	NUNN #1	88-2017	HL Y	40.8667	-104.7333	5900	SCAN	10/1994 - 05/2022
CO	NUNN #1	88-2017	DLY	40.8667	-104.7333	5900	SCAN	10/1994 - 06/2022

Table A.1.5. Metadata for *n*-minute stations used in derivation of 5- and 10-minute scaling factors (see Section 4.6.3) showing each station's state, name, SID, latitude, longitude, elevation, dataset identifier (see Table 4.2.1), and the period of record.

State	Station Name	SID	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
SD	BUFFALO ASOS	78-0001	45.6044	-103.5464	3004	NCEI	03/2005-10/2021
NE	SCOTTSBLUFF HEILIG AP	78-0002	41.8705	-103.5930	3945	NCEI	01/2000-10/2021
MT	BAKER MUNI AP	78-0003	46.3583	-104.2500	2971	NCEI	03/2005-10/2021
MT	BILLINGS INTL AP	78-0004	45.8069	-108.5422	3581	NCEI	01/2000-10/2021
OR	BAKER CITY AP	78-0005	44.8428	-117.8086	3361	NCEI	03/2005-10/2021
ID	BOISE AIR TERMINAL	78-0006	43.5666	-116.2405	2872	NCEI	01/2000-10/2021
WY	BIG PINEY MARBLETON AP	78-0007	42.5844	-110.1075	6970	NCEI	03/2005-10/2021
MT	BUTTE BERT MOONEY AP	78-0008	45.9647	-112.5006	5506	NCEI	03/2005-10/2021
WY	BUFFALO JOHNSON CO AP	78-0009	44.3814	-106.7211	4967	NCEI	03/2005-10/2021
ID	BURLEY MUNI AP	78-0010	42.5416	-113.7661	4154	NCEI	03/2005-10/2021
MT	BOZEMAN GALLATIN FLD AP	78-0011	45.7880	-111.1608	4427	NCEI	03/2005-10/2021
CO	CRAIG MOFFAT COUNTY AP	78-0012	40.4928	-107.5242	6190	NCEI	03/2005-10/2021
NE	CHADRON MUNI AP	78-0013	42.8374	-103.0981	3294	NCEI	03/2005-10/2021
WY	CASPER-NATRONA CO AP	78-0014	42.8978	-106.4737	5318	NCEI	01/2000-10/2021
MT	CUT BANK AP	78-0015	48.6033	-112.3752	3838	NCEI	03/2005-10/2021
SD	CUSTER CO AP	78-0016	43.7331	-103.6114	5545	NCEI	03/2005-10/2021
WY	CHEYENNE WSFO AP	78-0017	41.1578	-104.8069	6113	NCEI	01/2000-10/2021
WA	DEER PARK AP	78-0018	47.9742	-117.4292	2191	NCEI	03/2005-10/2021
WY	CONVERSE CO AP ASOS	78-0019	42.7961	-105.3803	4936	NCEI	03/2005-10/2021
MT	DILLON AP	78-0020	45.2575	-112.5544	5200	NCEI	03/2005-10/2021
CO	MEEKER AIRPORT	78-0021	40.0442	-107.8886	6366	NCEI	03/2005-10/2021

State	Station Name	SID	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
WY	EVANSTON BURNS FLD	78-0022	41.2731	-111.0306	7163	NCEI	03/2005-10/2021
WY	GILLETTE CAMPBELL AP	78-0023	44.3394	-105.5419	4354	NCEI	03/2005-10/2021
WA	SPOKANE INTL AP	78-0024	47.6216	-117.5280	2353	NCEI	01/2000-10/2021
WY	GREYBULL S BIG HORN AP	78-0025	44.5169	-108.0822	3933	NCEI	03/2005-10/2021
MT	GLASGOW INTL AP	78-0026	48.2138	-106.6214	2285	NCEI	01/2000-10/2021
MT	KALISPELL GLACIER AP	78-0027	48.3042	-114.2636	2957	NCEI	11/2005-10/2021
MT	GREAT FALLS AP	78-0028	47.4733	-111.3822	3664	NCEI	01/2000-10/2021
MT	HELENA AP ASOS	78-0029	46.6056	-111.9636	3828	NCEI	01/2000-10/2021
MT	HAVRE AP ASOS	78-0030	48.5428	-109.7633	2585	NCEI	01/2000-10/2021
ID	IDAHO FALLS FAA AP	78-0031	43.5190	-112.0639	4733	NCEI	03/2005-10/2021
MT	JORDAN AP	78-0032	47.3258	-106.9475	2662	NCEI	03/2005-10/2021
ID	JEROME CO AP	78-0033	42.7267	-114.4564	4048	NCEI	03/2005-10/2021
WY	LARAMIE AP	78-0034	41.3167	-105.6833	7266	NCEI	03/2005-10/2021
UT	LOGAN CACHE AP	78-0035	41.7872	-111.8533	4454	NCEI	03/2005-10/2021
ID	CHALLIS AP	78-0036	44.5228	-114.2150	5072	NCEI	03/2005-10/2021
WY	LANDER AP	78-0037	42.8154	-108.7261	5592	NCEI	01/2000-10/2021
MT	LIVINGSTON AP	78-0038	45.6983	-110.4408	4643	NCEI	03/2005-10/2021
ID	LEWISTON AP	78-0039	46.3747	-117.0156	1442	NCEI	01/2000-10/2021
MT	LEWISTOWN AP	78-0040	47.0492	-109.4578	4145	NCEI	03/2005-10/2021
ID	MULLAN PASS VOR/DME	78-0041	47.4569	-115.6450	6028	NCEI	03/2005-10/2021
MT	MILES CITY AP	78-0042	46.4266	-105.8825	2624	NCEI	03/2005-10/2021
MT	MISSOULA INTL AP	78-0043	46.9208	-114.0925	3192	NCEI	01/2000-10/2021
ID	MCCALL AP	78-0044	44.8889	-116.1017	5013	NCEI	03/2005-10/2021

State	Station Name	SID	Latitude	Longitude	Elevation (ft)	Dataset	Period of Record
MT	WOLF POINT INTL AP	78-0045	48.0944	-105.5744	1986	NCEI	03/2005-10/2021
OR	ONTARIO	78-0046	44.0206	-117.0128	2193	NCEI	03/2005-10/2021
WY	YELLOWSTONE LAKE	78-0047	44.5444	-110.4211	7835	NCEI	03/2005-10/2021
ID	LOWELL THREE RIVERS	78-0048	46.1442	-115.5964	1480	NCEI	03/2005-10/2021
ID	POCATELLO RGNL AP	78-0049	42.9202	-112.5711	4452	NCEI	01/2000-10/2021
WA	PULLMAN MOSCOW RGNL AP	78-0050	46.7439	-117.1086	2551	NCEI	03/2005-10/2021
OR	ROME STATE AP	78-0051	42.5906	-117.8644	4050	NCEI	03/2005-10/2021
WY	RIVERTON RGNL AP	78-0052	43.0642	-108.4589	5445	NCEI	03/2005-10/2021
WY	ROCK SPRINGS AP	78-0053	41.5947	-109.0530	6742	NCEI	03/2005-10/2021
WY	RAWLINS AP	78-0054	41.8000	-107.2000	6736	NCEI	03/2005-10/2021
ID	REXBURG MADISON CO AP	78-0055	43.8321	-111.8075	4862	NCEI	03/2005-10/2021
WA	SPOKANE FELTS FLD	78-0056	47.6831	-117.3214	1953	NCEI	03/2005-10/2021
WY	SHERIDAN AP	78-0057	44.7694	-106.9688	3945	NCEI	01/2000-10/2021
UT	SALT LAKE CITY INTL AP	78-0058	40.7781	-111.9694	4225	NCEI	01/2000-10/2021
ID	STANLEY RS	78-0059	44.1708	-114.9269	6495	NCEI	12/2004-10/2021
WY	TORRINGTON MUNI AP	78-0060	42.0613	-104.1584	4199	NCEI	03/2005-10/2021
ID	TWIN FALLS SUN VLY RGNL AP	78-0061	42.4819	-114.4869	4151	NCEI	03/2005-10/2021
UT	VERNAL MUNI AP	78-0062	40.4428	-109.5128	5270	NCEI	03/2005-10/2021
WY	WORLAND	78-0063	43.9658	-107.9508	4172	NCEI	03/2005-10/2021

Table A.1.6. List of stations for which additional data were digitized (Section 4.2) showing each station's state, name, SID, formatting interval, dataset identifier (Table 4.2.1), and the period(s) of record for which data were digitized.

State	Station Name	SID	Formatting Interval	Dataset	Period of Record
ID	POCATELLO WB CITY	99-0001	DLY	NCEI	07/1899-01/1949
WY	BIG HORN	99-0680	DLY	NCEI	06/1984-05/2005
MT	BOULDER	99-1008	DLY	NCEI	11/1891-06/1948
MT	BUSBY	99-1297	DLY	NCEI	07/1944-06/1948
WY	CASPER	99-1565	DLY	NCEI	03/1937-12/1943
WY	CASPER	99-1566	DLY	NCEI	09/1913-07/1948
ID	FORT SHERMAN	99-1956	DLY	NCEI	10/1894-04/1898
WY	ELK MOUNTAIN	99-2995	DLY	NCEI	05/1905-07/1948
WY	FORT LARAMIE	99-3490	DLY	NCEI	07/1931-12/1951
ID	SHEEP HILL	99-4450	DLY	NCEI	02/1909-07/1948
WY	KIRTLEY	99-5170	DLY	NCEI	06/1904-07/1948
WY	KNOWLES	99-5226	DLY	NCEI	06/1909-05/1943
WY	LYMAN	99-5836	DLY	NCEI	02/1922-02/1943
WY	MIDDLE FORK	99-6185	DLY	NCEI	12/1916-07/1948
WY	PINE BLUFFS	99-7235	DLY	NCEI	04/1900-12/1918
MT	SCOBAY	99-7424	DLY	NCEI	01/1938-06/1948
WY	RAWLINS AP	99-7533	DLY	NCEI	11/1898-12/1940
WY	REDBIRD	99-7555	DLY	NCEI	10/1941-07/1948
WY	SARATOGA	99-7990	DLY	NCEI	03/1900-07/1948
WY	WHALEN DAM USBR	99-9604	DLY	NCEI	10/1991-12/2011
WY	YELLOWSTONE PARK MAMMOTH	99-9905	DLY	NCEI	01/1887-05/1941

Appendix A.2. Annual maximum series trend analysis

1. Selection of statistical tests for detection of trends in AMS

The precipitation frequency analysis methods used in NOAA Atlas 14 assume that annual maximum series (AMS) data used in the analysis are stationary. Several parametric and non-parametric statistical tests were used for the detection of trends in AMS mean and variance. The selection of statistical tests was made in consideration of the data tested and the limitations of each of the tests.

First, AMS were graphed to observe types of trends in the data for all stations in the project area at 1-hour and 1-day durations. Visual inspection of time series plots did not detect any abrupt changes or apparent cycles in the AMS but suggested the possibility of slight trends at some locations. Changes appeared to be gradual and approximately linear.

The null hypotheses that there are no trends in AMS mean and/or variance were tested on 1-day and 1-hour AMS data at each station in the project area. The hypotheses were tested at the level of significance $\alpha = 5\%$. The hypothesis that there are no trends in the relative magnitude of AMS values for each climate region (see Figure 4.1.3) as a whole was also tested.

Levene's test (Levene, 1960) was used to test for homogeneity of variance in the AMS data. The test has been proven to be less sensitive to non-normality in data than some other commonly used tests (such as the Barlett test). The test statistic, W , is defined as follows:

$$W = \frac{(N - k) \sum_{i=1}^k N_i (Z_{i.} - Z_{..})^2}{(k - 1) \sum_{i=1}^k \sum_{j=1}^{N_i} N_i (Z_{ij} - Z_{i.})^2}$$

where k is the number of sub-groups, N is the sample size, N_i is the sample size of the i^{th} subgroup, Y_{ij} is the value of the j^{th} sample from the i^{th} subgroup, and Z_{ij} is the absolute deviation of Y_{ij} from the mean of the i^{th} subgroup. Levene's test rejects the hypothesis that the variances are equal if

$W > F_{\alpha, k-1, N-k}$, where $F_{\alpha, k-1, N-k}$ is the upper critical value of the F distribution with $k-1$ and $N-k$ degrees of freedom at a significance level of α .

At-station trends in AMS were inspected using the parametric t -test and non-parametric Mann-Kendall test (e.g., Maidment, 1993). Both tests are extensively used for trend analysis in environmental sciences and are appropriate for records that have undergone a gradual change. The tests are fairly robust, readily available, and easy to use and interpret. Since each test is based on different assumptions and different test statistics, the rationale was that if both tests have similar outcomes there can be more confidence about the results; if the outcomes are different, it would provide an opportunity to investigate reasons for discrepancies.

Parametric tests in general have been shown to be more powerful than nonparametric tests when the data are approximately normally distributed and when the assumption of homoscedasticity (homogeneous variance) holds (e.g., Hirsch et al., 1991), but are less reliable when those assumptions do not hold. The parametric t -test for trend detection is based on linear regression, and therefore checks only for a linear trend in data. A linear trend assumption seemed adequate here, since time series plots indicated, if any, monotonic, linear changes in AMS. The Pearson correlation coefficient (r) was used as a measure of linear association between annual maximum series data and time for the t -test. The hypothesis that the data are not dependent on time (and also that they are independent and normally distributed values) was tested using the t -statistic that follows Student's distribution defined as:

$$t = \frac{r\sqrt{n-2}}{\sqrt{1-r^2}}$$

where n is the record length of the AMS. The hypothesis is rejected when the absolute value of the computed t -statistic is greater than the critical value obtained from Student's distribution with $(n - 2)$ degrees of freedom and exceedance probability of $\alpha/2$ %, where α is the significance level. The sign of the t -statistic indicates the direction of the trend, positive or negative.

Non-parametric tests have advantages over parametric tests since they make no assumption of probability distribution and are performed without specifying whether trend is linear or nonlinear. They are also more resilient to outliers in data because they do not operate on data directly. One of the disadvantages of non-parametric tests is that they do not account for the magnitude of the data. The Mann-Kendall test (M-K test) was selected among various non-parametric tests because it can accommodate missing values in a time series, which was a frequent occurrence in the AMS data. The Mann-Kendall test compares the relative magnitudes of annual maximum data. If annual maximum values are indexed based on time, and x_i is the annual maximum value that corresponds to year t_i , then the Mann-Kendall statistic is given by:

$$S = \sum_{k=1}^{n-1} \sum_{i=k+1}^n \text{sign}(x_i - x_k)$$

The test statistic Z is then computed using a normal approximation and standardization of the statistic S . The null hypothesis that there is no trend in the data is rejected at significance level α if the computed Z value is greater, in absolute terms, than the critical value obtained from a standard normal distribution that has probability of exceedance of $\alpha/2$ %. The sign of the statistic indicates the direction of the trend, positive or negative.

In addition to an at-station trend analysis, any trend in the relative magnitude of AMS for each climate region (see Figure 4.1.3) as a whole was assessed by linear regression techniques. For each region, all 1-hour or 1-day station-specific AMS for stations with at least 40 years of data for the 1-hour duration and with at least 70 years of data for the 1-day duration were rescaled by corresponding mean annual maximum values and then regressed against time. The regression results were tested against a null hypothesis of the slope coefficient being equal to zero (zero correlation between rescaled AMS and time).

2. Trend analysis results and conclusion

The stationarity assumption was tested by applying a parametric t -test and non-parametric Mann-Kendall test for trends in means and Levene's test for trends in variance in the 1-day and 1-hour AMS data at 5% significance level. For the 1-day duration, testing was done on stations with at least 70 years of data; for the 1-hour duration, the minimum number of data years was lowered to 40 to increase the sample size. 153 and 313 stations satisfied the record length criterion for the 1-hour duration and 1-day duration, respectively. For 1-hour, the t -test and Mann-Kendall test indicated no statistically significant trends at about 90% and 92% of stations, respectively. In the 1-day dataset, the t -test and Mann-Kendall test results, no trends were detected at about 88% and 90% of stations, respectively. Levene's test indicated non-homogeneous variance in less than 4% of stations for the 1-hour duration and less than 10% for the 1-day duration. More details are provided in Table A.2.1. The spatial distribution of the results for all three tests for 1-hour and 1-day AMS are shown in Figures A.2.1 and A.2.2, respectively. Small clusters of stations where tests indicated positive trends are often due to AMS data sampled from the same storm events at several nearby locations.

Results from the regional trend analysis also indicated that the null hypothesis, that there are no trends in the relative AMS values, could not be rejected at the 5% significance level for either climate region for the 1-day duration and the Northern U.S. Rockies region for the 1-hour duration. For the Northern Great Plains region at 1-hour, the regression slope coefficient was found to be significant but very small. Both the slope coefficient and the R^2 for the regression model were on the order of 0.001. Any trend of this magnitude would have only a small impact on estimates, and likely be within confidence limits.

Because tests at both the 1-hour and 1-day durations indicated no significant trends in the data, the assumption of stationary AMS was accepted for this project area and no adjustment to AMS data was recommended.

Table A.2.1. Trend analysis results for 1-hour and 1-day AMS data.

Number of Stations	1-hour			1-day		
	t-test	M-K	Levene's	t-test	M-K	Levene's
no trend	137	141	147	274	281	284
positive trend	9	8	6	20	21	29
Negative	7	4		19	11	

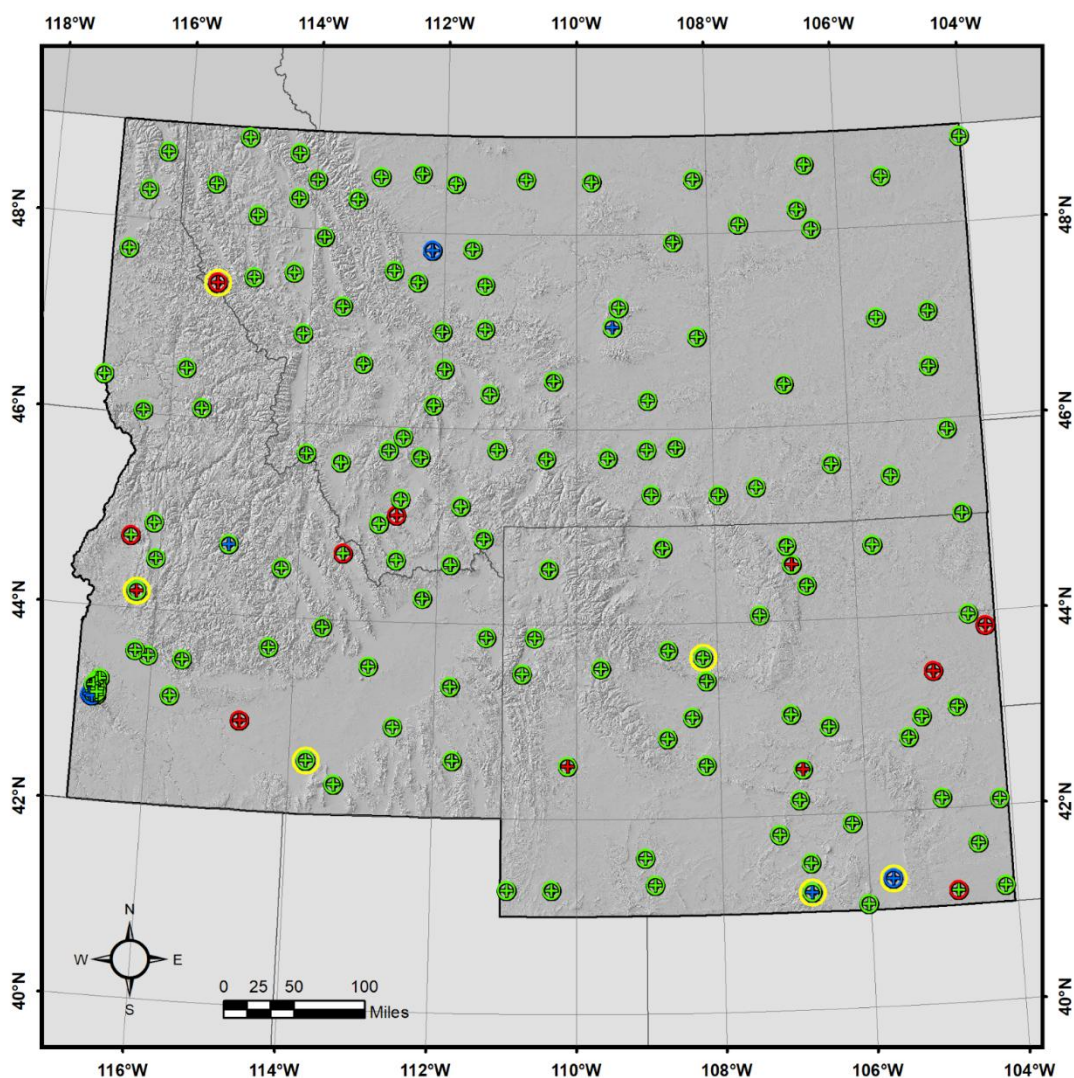


Figure A.2.1. Spatial distribution of results of t-, Mann-Kendall, and Levene's tests for 1-hour AMS. Circles (except yellow) were used to present t-test results and plus signs were used to present Mann-Kendall test results. Red color indicates positive trends, green no trend, and blue negative trends. Yellow circles show locations where Levene's test detected changes in variance.

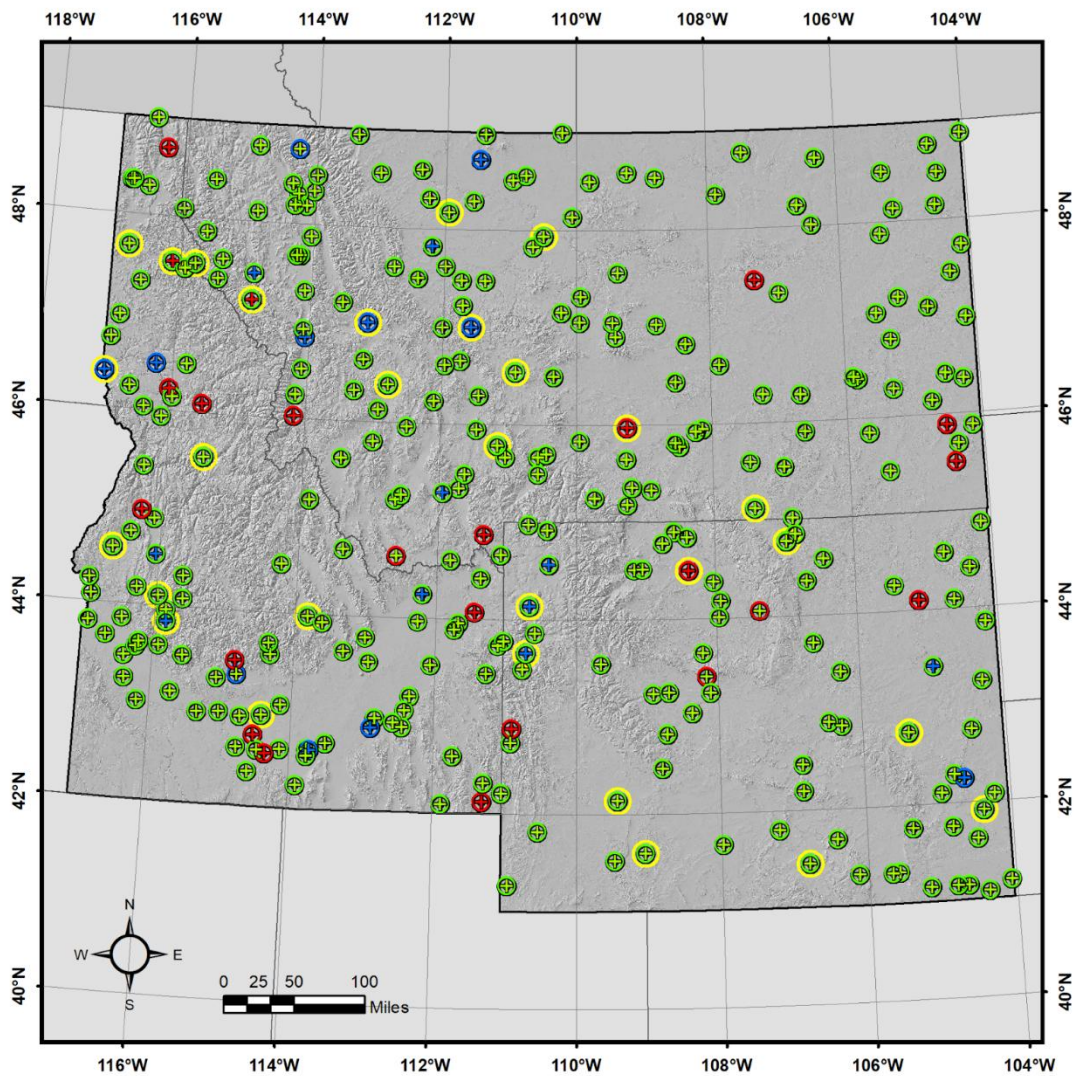


Figure A.2.2. Same as in Figure A.2.1, but for 1-day duration.

Appendix A.3. PRISM report

Final Report Production of Rainfall Frequency Grids for Idaho, Montana, and Wyoming Using a Specifically Optimized PRISM System

Prepared for
National Weather Service, Hydrologic Design Service Center
Silver Spring, Maryland

Prepared by
Dr. Christopher Daly
PRISM Climate Group
Northwest Alliance for Computational Science and Engineering
College of Engineering
Oregon State University

June 2024

1. Project Goal

The Hydrometeorological Design Studies Center (HDSC) within the OWP/NWS has been updating precipitation frequency estimates for various parts of the United States and affiliated territories that are published in NOAA Atlas 14. NOAA Atlas 14 is divided into volumes based on geographic sections of the country and affiliated territories. Since May 2021, HDSC has been working on updating precipitation frequency estimates for the states of Montana and Idaho as Volume 12. This volume also includes areas within the state of Wyoming. In order to complete the spatial interpolation of point precipitation frequency estimates across a range of durations, HDSC required spatially interpolated grids of mean annual maximum (MAM) precipitation at various durations. The contractor, the PRISM Climate Group at Oregon State University (OSU), was tasked with producing a series of grids for rainfall frequency estimation using an optimized system based on the Parameter-elevation Regressions on Independent Slopes Model (PRISM) and HDSC-calculated point estimates for Idaho, Montana, and Wyoming (IDMTWY).

2. Background

HDSC used an L-moment based regional frequency analysis approach to estimate precipitation frequencies. In this approach, the mean of the underlying precipitation frequency distribution is estimated at point locations with a sufficient history of observations. The form of the distribution and its parameters are estimated regionally. Once the form of the distribution has been selected and its parameters have been estimated, precipitation frequency estimates can be computed from grids of the MAM. The grids that are the subject of this report are spatially interpolated grids of the point estimates of the MAM for various precipitation durations. The point estimates of the MAM were provided by HDSC. HDSC selected an appropriate precipitation frequency distribution along with regionally estimated parameters and used this information with the grids of the MAM to derive grids of precipitation frequency estimates.

The PRISM Climate Group has performed similar work previously to produce spatially interpolated MAM grids for updates of precipitation frequency estimates in the Semiarid Southwest United States, the Ohio River Basin and Surrounding States, Puerto Rico/US Virgin Islands, Hawaiian Islands, California, Midwest/Southeast states, Texas, and Alaska study areas.

3. Report

This report describes tasks performed to produce mean annual maximum (MAM) grids for 17 precipitation durations: 15 and 30 minutes; 1, 2, 3, 6, and 12 hours; and 1, 2, 3, 4, 7, 10, 20, 30, 45, and 60 days for IDMTWY. The tasks described were not necessarily performed in the order described, nor were they performed just once. The process was dynamic and had numerous feedbacks.

3.1. Adapting to the PRISM system

The PRISM modeling system was adapted for use in this project after a small investigation was performed for the Semiarid Southwest United States, and subsequently used in the Ohio River Basin and Surrounding States, Puerto Rico/Virgin Islands, Hawaiian Islands, California, Alaska, Midwest/Southeast states, Texas, and Northeast study areas. This investigation and adaptation procedure is summarized below.

PRISM is a knowledge-based system that uses point data, a digital elevation model (DEM), and many other geographic data sets to generate gridded estimates of climatic parameters (Daly et al. 1994, 2002, 2003, 2006, 2008) at monthly to daily time scales. Originally developed for precipitation estimation, PRISM has been generalized and applied successfully to map precipitation, dew point, minimum and maximum temperature, and vapor pressure deficit over the United States, Canada, China, and other countries. Details on PRISM formulation can be found in Daly et al. (2002, 2003, 2008, 2015, 2021), which are available from <http://prism.oregonstate.edu/docs/>.

Adapting the PRISM system for mapping precipitation frequencies required an approach slightly different than the standard modeling procedure. The amount of station data available to HDSC for precipitation frequency was much less than that available for high-quality precipitation maps, such as the peer-reviewed PRISM 1971-2000 mean precipitation maps (Daly et al. 2008). Data sources suitable for long-term mean precipitation but not for precipitation frequency included snow courses, short-term COOP stations, remote storage gauges, and others. In addition, data for precipitation durations of less than 24 hours were available from hourly precipitation stations only. This meant that mapping precipitation frequency using HDSC stations only would sacrifice a significant amount of the spatial detail present in the long-term mean precipitation maps.

A pilot project to identify ways of capturing more spatial detail in the precipitation frequency maps was undertaken. Early tests showed that mean annual precipitation (MAP) was an excellent predictor of precipitation frequency in a local area, much better than elevation, which is typically used as the underlying, gridded predictor variable in PRISM applications. In these initial tests, the DEM, the predictor grid in PRISM, was replaced by the official USDA digital map of MAP for the lower 48 states (USDA-NRCS 1998, Daly et al. 2000). Detailed information on the creation of the USDA PRISM precipitation grids is available from Daly and Johnson (1999). MAP was found to have superior predictive capability over the DEM for locations in the southwestern US. The relationships between MAP and precipitation frequency were strong because many of the effects of various physiographic features on mean precipitation patterns had already been incorporated into the MAP grid from PRISM. Preliminary PRISM maps of 2-year and 100-year, 24-hour precipitation were made for the Semiarid Southwest and compared to hand-drawn HDSC maps of the same statistics. Differences were minimal, and mostly related to differences in station data used.

Further investigation found that the square-root transformation of MAP produced more linear, tighter and cleaner regression functions, and hence, more stable predictions, than the untransformed values; this transformation was incorporated into subsequent model applications. Square-root MAP was a good local predictor of not only longer-duration precipitation frequency statistics, but for short-duration statistics, as

well. Therefore, it was determined that a modified PRISM system that used square-root MAP as the predictive grid was suitable for producing high-quality precipitation frequency maps for this project.

For this study, the latest official USDA grid of MAP for the study region (1991-2020 average) was used (Figure 1). This grid was developed under funding from the USDA Risk Management Agency and is an update to the 1981-2010 grids. The 1991-2020 normals are available online from <https://prism.oregonstate.edu/normal/>.

3.2 PRISM configuration and operation for IDMTWY

In general, PRISM interpolation consists of a local moving-window regression function between a predictor grid and station values of the element to be interpolated. The regression function is guided by an encoded knowledge base and inference engine (Daly et al., 2002, 2008). This knowledge base/inference engine is a series of rules, decisions and calculations that set weights for the station data points entering the regression function. In general, a weighting function contains knowledge about an important relationship between the climate field and a geographic or meteorological factor. The inference engine sets values for input parameters by using default values, or it may use the regression function to infer grid cell-specific parameter settings for the situation at hand. PRISM acquires knowledge through assimilation of station data, spatial data sets such as MAP and others, and a control file containing parameter settings.

The other center of knowledge and inference is that of the user. The user accesses literature, previously published maps, spatial data sets, and a graphical user interface to guide the model application. One of the most important roles of the user is to form expectations for the modeled climatic patterns, i.e., what is deemed “reasonable.” Based on knowledgeable expectations, the user selects the station weighting algorithms to be used and determines whether any parameters should be changed from their default values. Through the graphical user interface, the user can click on any grid cell, run the model with a given set of algorithms and parameter settings, view the results graphically, and access a traceback of the decisions and calculations leading to the model prediction.

For each grid cell, the moving-window regression function for MAM vs. MAP took the form

$$\text{MAM value} = \beta_1 * \text{sqrt}(\text{MAP}) + \beta_0 \quad (1)$$

where β_1 is the slope and β_0 is the intercept of the regression equation, and MAP is the grid cell value of mean annual precipitation.

Upon entering the regression function, each station was assigned a weight that is based on several factors. For PRISM MAP mapping (used as the predictor grid in this study), the combined weight of a station was a function of distance, elevation, cluster, vertical layer, topographic facet, coastal proximity, and effective terrain weights, respectively. A full discussion of the general PRISM station weighting functions is available from Daly et al. (2008).

Given that the MAP grid incorporated detailed information about the complex spatial patterns of precipitation, only a subset of these weighting functions was needed for this study. For IDMTWY, the combined weight of a station was a function of distance and clustering, respectively. A station is down-weighted when it is relatively distant from the target grid cell, or when it is clustered with other stations (which can lead to over-representation).

The moving-window regression function was populated by station data provided by the HDSC. A PRISM GUI snapshot of the moving-window relationship between sqrt(MAP) and 24-hour MAM in northwestern Montana is shown in Figure 2.

There were relatively few stations with data for durations of 12 hours or less from which to perform the interpolation. In addition, it was clear that the spatial patterns of durations of 12 hours or less could be

very different than those of durations of 24 hours or more. This issue was encountered in a previous study for Puerto Rico. During that study the following procedure was developed, and adopted here:

- (1) Convert available ≤ 12 -hour station values to an MAM/24-hr MAM ratio (termed R24) by dividing by the 24-hour values;
- (2) using the station R24 data in (1), interpolate R24 values for each ≤ 12 -hour duration (15, 30, and 60 minutes; and 2, 3, 6, and 12 hours) using PRISM;
- (3) using bi-linear interpolation from the cells in the R24 grids from (2), estimate R24 at the location of each station having data for ≥ 24 -hour durations only;
- (4) multiply the estimated R24 values from (3) by the 24-hour value at each ≥ 24 -hour station to obtain estimated ≤ 12 -hour values;
- (5) append the estimated stations from (4) to the ≤ 12 -hour station list to generate a station list that matches the density of that for ≥ 24 hours; and
- (6) interpolate MAM values for ≤ 12 -hour durations with PRISM, using MAP as the predictor grid.

Investigation of the little available data failed to provide convincing evidence that the spatial patterns of R24 values in IDMTWY were strongly affected by topographic facets, or other physiographic factors. Therefore, the slope of the moving-window regression function for R24 vs. MAP of the form

$$R24 = \beta_1 * \text{sqrt}(\text{MAP}) + \beta_0 \quad (2)$$

was forced to zero everywhere. This meant that the interpolated value of R24 was a function of distance and cluster weighting only (essentially inverse-distance weighting).

Relevant PRISM parameters for applications to 60-minute R24 and 24-hour MAM statistics are listed in Tables 1 and 2, respectively. Further explanations of these parameters and associated equations are available in Daly et al. (2002, 2008).

The values of radius of influence (R), the minimum number of total (s_t) stations required in the regression were based on information from user assessment via the PRISM graphical user interface, and on a jackknife cross-validation exercise, in which each station was deleted from the data set one at a time, a prediction made in its absence, and mean absolute error statistics compiled (see Results section).

The input parameter that changed readily among the various durations was the default slope (β_{1d}) of the regression function. Slopes are expressed in units that are normalized by the average observed value of the precipitation in the regression data set for the target cell. Evidence gathered during PRISM model development indicates that this method of expression is relatively stable in both space and time (Daly et al. 1994).

Bounds were put on the slopes to minimize unreasonable slopes that might occasionally be generated due to local station data patterns; if the slope is out of bounds and cannot be brought within bounds by the PRISM outlier deletion algorithm, the default slope is invoked (Daly et al., 2002). The maximum slope bound was set to a uniformly high value of 30.0, to accommodate a large range of valid slopes; lower values were not needed to handle extreme values, because all values were within reasonable ranges. Slope default values were based on PRISM diagnostics that provided information on the distribution of slopes across the modeling region. The default value was set to approximate the average regression slope calculated by PRISM. For these applications, default slopes typically increased with increasing duration (Table 3). In general, the longer the duration, the larger the slope. This is primarily a result of higher precipitation amounts at the longer durations, and the tendency for longer-duration MAM statistics to bear a stronger and steeper relationship with MAP than shorter-duration statistics.

3.3 Preparation and review of draft grids

Draft grids for the 1-hour, 6-hour, 24-hour, 4-day, 10-day, and 60-day durations were produced and made available to HDSC for evaluation. All of the necessary station data were provided by HDSC. The process began with a careful scrutiny of the station data and PRISM behavior. A version of PRISM which predicts for stations locations in the absence of each station (termed jackknifing) was run, and stations predicted poorly by PRISM were identified, and sent to HDSC for review. HDSC removed the stations, modified their values, or determined that the stations were accurate as-is. This process was performed iteratively, until an acceptable station data set was produced. The draft PRISM grids were subsequently completed and submitted to HDSC for review. HDSC submitted the draft PRISM grids for external review and revised the station data accordingly.

3.4 Final grids

Having found the revised draft grids acceptable, HDSC requested that grids for all durations be completed. Before delivering the final grids to HDSC, the PRISM Climate Group checked them for internal consistency. In other words, the value of the MAM at each grid point for each duration must have been greater than the value for shorter durations at the same grid point. If an inconsistency of this nature occurred, the 60-day duration was used as a baseline, and shorter durations were set to slightly lower values.

The final delivered grids inherited the spatial resolution of the latest 1991-2020 PRISM mean annual precipitation grids for IDMTWY, which is 30 arc-seconds (~800 meters). The grid cell units are in mm. Final MAM grids delivered to HDSC are as follows:

15-minute
30-minute
60-minute
2-hour
3-hour
6-hour
12-hour
24-hour
48-hour
3-day
4-day
7-day
10-day
20-day
30-day
45-day
60-day

Total: 17

3.5 Performance evaluation

PRISM cross-validation statistics for 60-minute/24-hour MAM ratio and the 60-minute and 24-hour MAM intensities were compiled and summarized in Table 4. These errors were estimated using an omit-one jackknife method, where each station is omitted from the data set, estimated in its absence, then replaced. Since the 60-minute/24-hour MAM ratio was expressed as a percent, the percent bias and mean absolute error are the given as the bias and MAE in the original percent units (not as a percentage of the percent).

For the 60-minute/24-hour MAM ratio, the overall percent bias was -1.18% and the mean absolute error (MAE) 3.67 percent. For the 60-minute, 24-hour, and 10-day MAM intensities, biases were less than one percent except for the 60-minute duration, with a bias of -4.11 percent. Overall, MAEs ranged from 4-6 percent at the 1-hour to 60-day durations. The very small values at the 15- and 30-minute durations pushed the MAEs to about 7 and 13 percent, respectively.

Table 1. Values of relevant PRISM parameters for interpolation of 60-minute/24-hour mean annual maximum ratio (60-minute R24) for IDMTWY. See Daly et al. (2002) for details on PRISM parameters.

Name	Description	Value
<u>Regression Function</u>		
R	Radius of influence	10 km*
s_t	Minimum number of total stations desired in regression	45 stations
β_{1m}	Minimum valid regression slope	0.0 ⁺
β_{1x}	Maximum valid regression slope	0.0 ⁺
β_{1d}	Default valid regression slope	0.0 ⁺
<u>Distance Weighting</u>		
A	Distance weighting exponent	2.0
F_d	Importance factor for distance weighting	1.0
D_m	Minimum allowable distance	0.0 km
<u>Elevation Weighting</u>		
B	MAP weighting exponent	NA/NA
F_z	Importance factor for MAP weighting	NA/NA
Δz_m	Minimum station-grid cell MAP difference below which MAP weighting is maximum	NA/NA
Δz_x	Maximum station-grid cell MAP difference above which MAP weight is zero	NA/NA

* Expands to encompass minimum number of total stations desired in regression (s_t).

⁺ Slopes are expressed in units that are normalized by the average observed value of the precipitation in the regression data set for the target cell. Units here are $1/[\text{sqrt}(\text{MAP}(\text{mm}))*1000]$.

Table 2. Values of relevant PRISM parameters for modeling of 24-hour mean annual maximum statistics for IDMTWY. See Daly et al. (2002) for details on PRISM parameters.

Name	Description	Value
<u>Regression Function</u>		
R	Radius of influence	3 km*
s_t	Minimum number of total stations desired in regression	25 stations
β_{1m}	Minimum valid regression slope	0.0 ⁺
β_{1x}	Maximum valid regression slope	30.0 ⁺
β_{1d}	Default valid regression slope	2.8 ⁺
<u>Distance Weighting</u>		
A	Distance weighting exponent	2.0
F_d	Importance factor for distance weighting	1.0
D_m	Minimum allowable distance	0.0 km
<u>Elevation Weighting</u>		
B	Elevation weighting exponent	0.0
F_z	Importance factor for elev weighting	0.0
Δz_m	Minimum station-grid cell elev difference below which MAP weighting is maximum	NA
Δz_x	Maximum station-grid cell elevation difference above which station is eliminated from data set	NA

* Expands to encompass minimum number of total stations desired in regression (s_t).

⁺ Slopes are expressed in units that are normalized by the average observed value of the precipitation in the regression data set for the target cell. Units here are $1/[\text{sqrt}(\text{MAP}(\text{mm}))*1000]$.

Table 3. Values of PRISM slope parameters for modeling of MAM statistics for IDMTWY for all durations. For durations of 12 hours and below, station data were expressed as the ratio of the given duration's MAM value to the 24-hour MAM value and interpolated; this was followed by an interpolation of the actual MAM values. See text for details. See Table 1 for definitions of parameters.

Duration	Slope Parameters		
	β_{1m}	β_{1x}	β_{1d}
15m/24h ratio	0.0	0.0	0.0
30m/24h ratio	0.0	0.0	0.0
1h/24h ratio	0.0	0.0	0.0
2h/24h ratio	0.0	0.0	0.0
3h/24h ratio	0.0	0.0	0.0
6h/24h ratio	0.0	0.0	0.0
12h/24h ratio	0.0	0.0	0.0
15 minute MAM	0.0	30.0	2.3
30 minute MAM	0.0	30.0	2.3
1 hour MAM	0.0	30.0	2.3
2 hour MAM	0.0	30.0	2.3
3 hour MAM	0.0	30.0	2.4
6 hour MAM	0.0	30.0	2.5
12 hour MAM	0.0	30.0	2.7
24 hour MAM	0.0	30.0	2.8
48 hour MAM	0.0	30.0	3.0
3 day MAM	0.0	30.0	3.1
4 day MAM	0.0	30.0	3.2
7 day MAM	0.0	30.0	3.6
10 day MAM	0.0	30.0	3.8
20 day MAM	0.0	30.0	4.2
30 day MAM	0.0	30.0	4.5
45 day MAM	0.0	30.0	4.6
60 day MAM	0.0	30.0	4.8

Table 4. PRISM cross-validation errors for 60-minute/24-hour MAM ratio, and 60-minute, 24-hour, and 10-day MAM applications to IDMTWY. Since the 60-minute/24-hour MAM ratio was expressed as a percent, the percent bias and mean absolute error are given as the bias and MAE in the original percent units (not as a percentage of the percent).

Statistic	N	% Bias	% MAE
60-min/24-hr MAM ratio	737	-1.18	3.67
60-minute MAM	1320	-4.11	5.95
24-hour MAM	1320	0.19	6.12
10-day MAM	1320	0.71	5.88

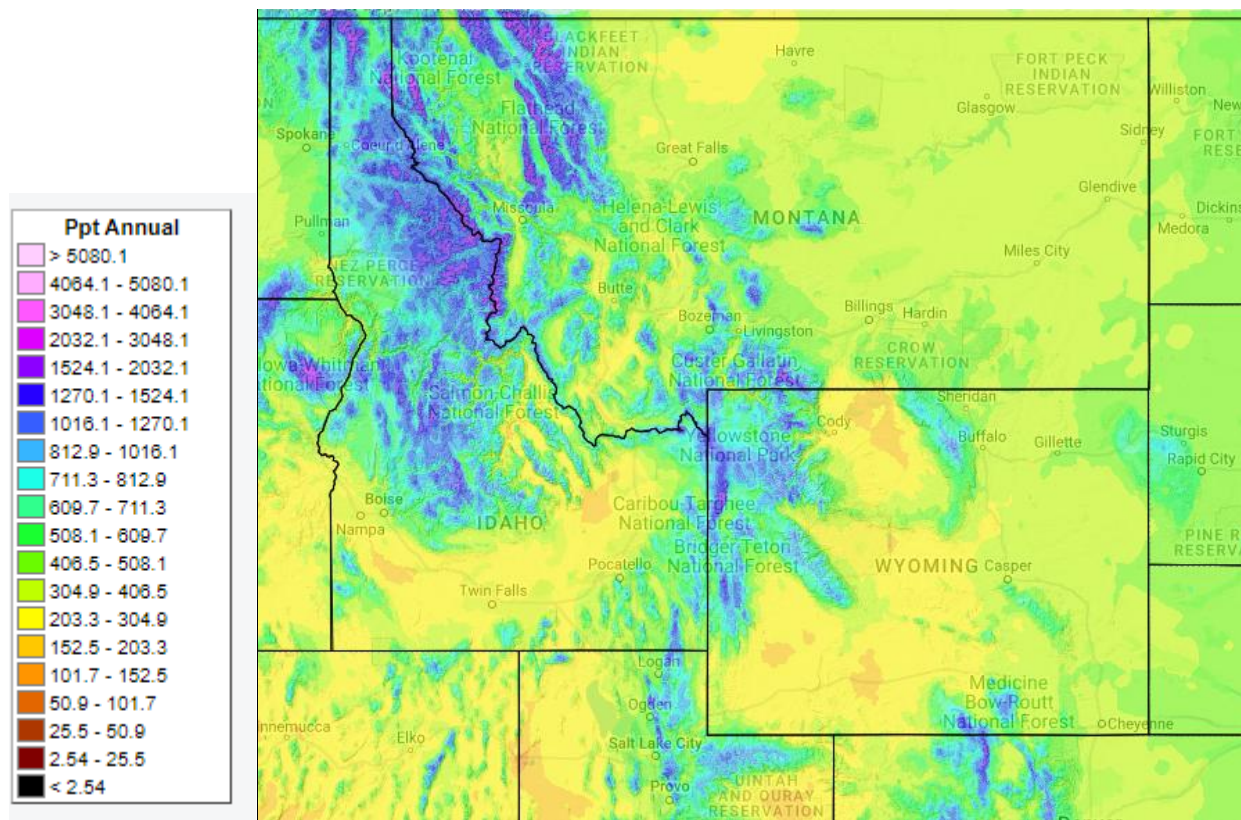


Figure 1. PRISM 1991-2020 mean annual precipitation (MAP) grid for the IDMTWY study region. Units are millimeters/year.

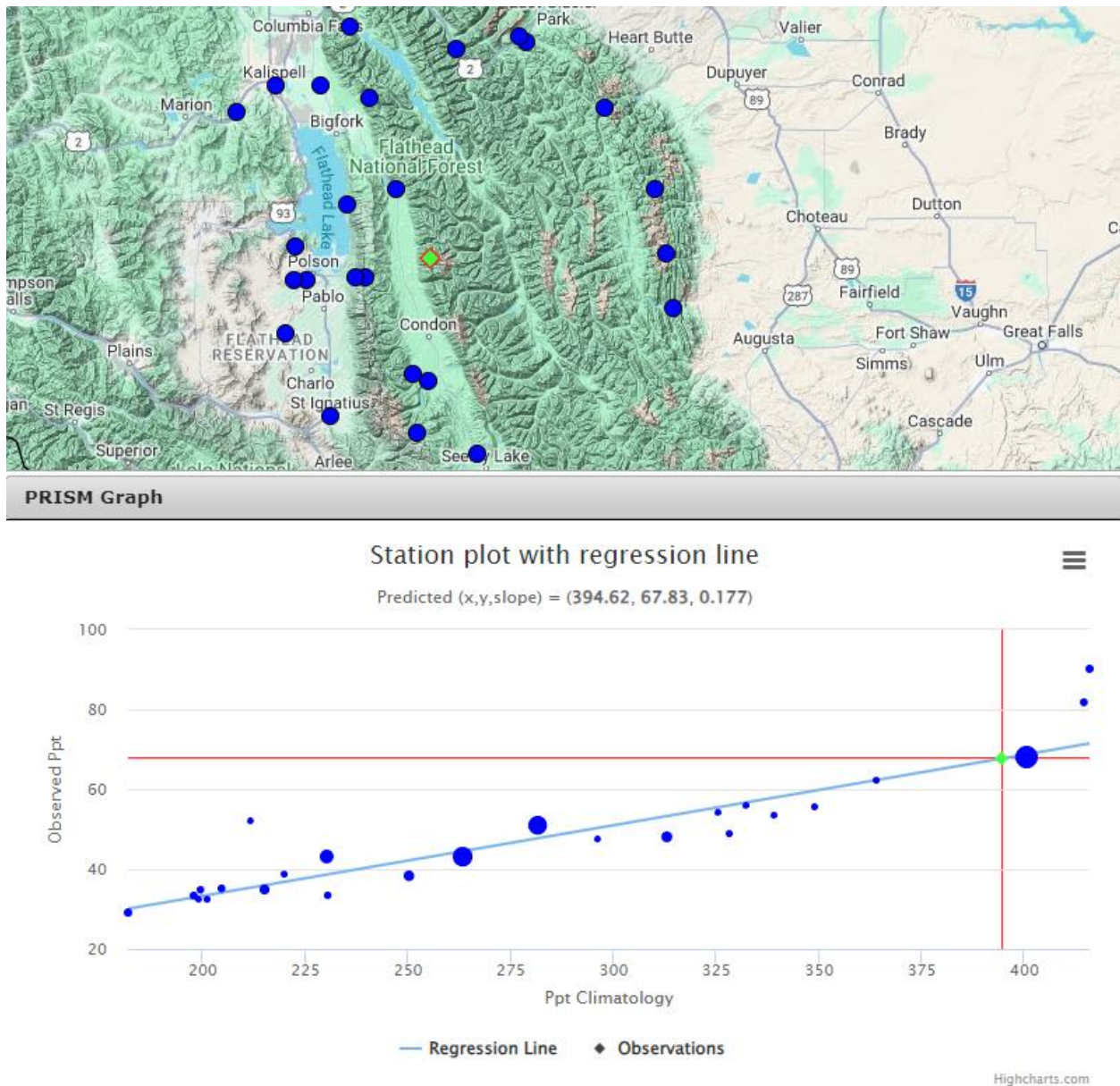


Figure 2. PRISM GUI snapshot of the moving-window weighted regression between the square root of mean annual precipitation ($\times 100$) and 24-hour mean annual maximum precipitation (MAM, mm) in northwestern Montana. Model is being run for the green diamond location on the map; stations are shown as blue circles.

References

- Barnes, S. L. 1964. A technique for maximizing details in numerical weather map analysis. *Journal of Applied Meteorology*, 3:396-409.
- Daly, C. 2006. Guidelines for assessing the suitability of spatial climate data sets. *International Journal of Climatology*, Vol 26: 707-721. <http://prism.oregonstate.edu/pub/prism/docs/intjclim06-guidelines-daly.pdf>
- Daly, C., Doggett, M.K., Smith, J.I., Olson, K.V., Halbleib, M.D., Dimcovic, Z., Keon, D., Loiselle, R.A., Steinberg, B., Ryan, A.D., Pancake, C.M., and Kaspar, E.M. 2021 Challenges in Observation-Based Mapping of Daily Precipitation across the Conterminous United States. *Journal of Atmospheric and Oceanic Technology*, 38, 1979-1992, <https://doi.org/10.1175/JTECH-D-21-0054.1>
- Daly, C., W. P. Gibson, G. H. Taylor, G. L. Johnson, and P. Pasteris. 2002. A knowledge-based approach to the statistical mapping of climate. *Climate Research*, 22: 99-113. http://prism.oregonstate.edu/pub/prism/docs/climres02-kb_approach_statistical_mapping-daly.pdf
- Daly, C., Halbleib, M., Smith J.I., Gibson, W.P., Doggett, M.K., Taylor, G.H., Curtis, J., and Pasteris, P.A. 2008. Physiographically-sensitive mapping of temperature and precipitation across the conterminous United States. *International Journal of Climatology*, 28: 2031-2064. http://prism.oregonstate.edu/pub/prism/docs/intjclim08-physiographic_mapping-daly.pdf
- Daly, C., E. H. Helmer, and M. Quinones. 2003. Mapping the climate of Puerto Rico, Vieques, and Culebra. *International Journal of Climatology*, 23: 1359-1381. http://prism.oregonstate.edu/pub/prism/docs/jclim03-map_climate_PR.pdf
- Daly, C., R. P. Neilson, and D. L. Phillips. 1994. A statistical-topographic model for mapping climatological precipitation over mountainous terrain. *Journal of Applied Meteorology*, 33: 140-158. http://prism.oregonstate.edu/pub/prism/docs/jappclim94-modeling_mountain_precip-daly.pdf
- Daly, C., J.I. Smith, M. D. Halbleib, W.P. Gibson, and P. Sousanes. 2009. 1971-2000 mean monthly and annual precipitation spatial climate data set for the State of Alaska. USDOI National Park Service. Accessible at <http://irma.nps.gov/>, search term: "mean precipitation".
- Daly, C., J.I. Smith, and K.V. Olson. 2015. [Mapping atmospheric moisture climatologies](#) across the conterminous United States. PloS ONE 10(10): e0141140. doi: 10.1371/journal.pone.0141140.
- Daly, C., G. H. Taylor, W. P. Gibson, T. W. Parzybok, G. L. Johnson, P. Pasteris. 2000. High-quality spatial climate data sets for the United States and beyond. *Transactions of the American Society of Agricultural Engineers* 43: 1957-1962. http://prism.oregonstate.edu/pub/prism/docs/asae00-spatial_climate_datasets-daly.pdf
- USDA-NRCS, 1998. *PRISM Climate Mapping Project--Precipitation. Mean monthly and annual precipitation digital files for the continental U.S.* USDA-NRCS National Cartography and Geospatial Center, Ft. Worth TX. December, CD-ROM.

Appendix A.4. Peer review comments and responses

A peer review of preliminary results for the NOAA Atlas 14 (NA14) Volume 12 precipitation frequency project was carried out in the period between 10 October 2023 and 22 December 2023. An invitation for the review was sent to individuals who expressed interest in updates to the Volume 12 project area and/or subscribed to the HDSC mailing list server. In January 2024, all comments were consolidated and reviewed, and began to be addressed accordingly.

The review package included the following items:

a. Station metadata. Reviewers were asked to examine the accuracy of stations' metadata and provide comments on suggested stations' deletions and merges. A total of 15,305 stations from 34 datasets were grouped into three categories: a) stations within the Interior Northwest (INW) used in the analysis, b) stations outside the INW used in the analysis, and c) stations that were examined but not retained for the analysis. The metadata tables included information on each station's name, state, abbreviation used to identify the agency that provided data for the station, agency-assigned ID, latitude, longitude, elevation, and period of record. The tables also included basic information on other stations that contributed data to that station for sub-hourly, hourly, and daily durations, if applicable. If station data was collected but not used in the analysis, a brief comment was also provided on why the data was not used. Generally, stations were not used either because there was another nearby station with a longer period of record, station data were assessed unreliable for this specific purpose, or the station's period of record was not long enough and the station was not a candidate for merging with any nearby station.

b. Spatially-interpolated estimates. Reviewers were invited to comment on the overall and local spatial patterns in spatially-interpolated precipitation frequency estimates for 2-year and 100-year ARIs and for 60-minute, 6-hour, 24-hour, and 10-day durations. To illustrate how much estimates changed in the project area, cartographic maps showing differences between preliminary NOAA Atlas 14 and superseded NOAA estimates (see Section 3.5 of this Appendix) for 100-year ARI and 6-hour and 24-hour durations were also shared. Figure 7 in Section 3.5 of this Appendix shows, as an example, a difference map between NA14 and NA2 100-year 24-hour precipitation frequency estimates.

c. At-station depth-duration-frequency (DDF) curves. Reviewers were asked to examine the DDF curves only for stations within the project states retained in the analysis for 60-minute to 10-day durations and for 2-year through 100-year average recurrence intervals and to comment on their reasonableness. Comments were received from ten individuals representing various federal and state agencies, as well as the private sector. Their reviews provided critical feedback that improved the estimates. Reviewers' comments and HDSC's responses (in italic font) are shown below. The comments and their respective HDSC responses have been grouped have been grouped into four categories:

1. Period of record
2. Patterns of spatially interpolated precipitation frequency estimates
3. Comparison other studies
4. Miscellaneous.

1. PERIOD OF RECORD

- 1.1 The data used in the analysis ends in 3/2022. There was a significant flood event in NW WY in June 2022 (Yellowstone NP flooding). It was a mix of snowmelt and heavy rain, but the rainfall totals were impressive in that area and in a fairly short time frame. If possible, I would strongly urge you to incorporate that data into the analysis. I know it's late in the process, but as with the 2017 Texas analysis, I think it will be a pretty important event to include as it was a significant event in an area that normally does not get heavy rainfall.

After a peer review process, completed in October 2023, we updated most readily available datasets through the water year 2023. Most agency datasets were available for data download, while some agencies sent us their data directly. Stations from the datasets sent to us directly typically have data through water year 2021, while datasets available online, such as NCEI's Global Historical Climatology Network daily (GHCNd) and USDA's automated Snow Telemetry (SNOTEL) networks, were updated through water year 2023.

As a result, the Yellowstone NP, Wyoming flooding event of June 2022 is included in the final estimates, and includes stations that captured heaviest precipitation totals, such as 3.60 inches measured in 1-day at station Fisher Creek (Snotel 480). The same storm system also produced the heaviest 24-hour precipitation amount ever measured west of the Continental Divide in Montana at the Noisy Basin SNOTEL station, with 7.1 inches on June 13-14.

- 1.2 It was not mentioned specifically in the peer review but are the precipitation-frequency values based on the total period of record or for a certain fixed period for all stations? For example, if a station has a record from 1940 to 2000 and another station has a record from 2000 to 2022 will these stations be treated equally in the analysis? There could be possible trends in these data due to climate change.

The preliminary estimates are based on the total period of record, though stations with longer records are more highly weighted in the development of mean annual maximum grids and in calculation of the regional statistics. This allows us to develop more robust estimates and better assess any trends at a location over the historical period. We also want to identify any trends in annual maximum series (AMS) because the method used in NOAA Atlas 14 assumes a stationary climate. Using the parametric t-test and non-parametric Mann-Kendall test for trends in means and Levene's test for trends in variance, we found that approximately 90% of stations with sufficient record lengths did not show statistically significant trends in AMS data. Please see Appendix A.2 for more information.

Furthermore, we are currently developing a revised version of the Precipitation Frequency Standard, referred to as NOAA Atlas 15, with funding support from the Bipartisan Instructure Law. This revised standard will account for temporal trends in historical data, when that trend exists, and future climate variability using climate model outputs. For more information on this project, please see

https://www.weather.gov/media/owp/hdsc_documents/NOAA_Atlas_15_Flyer.pdf.

- 1.3 Some stations have a period of record ending prior 1990, it is worth re-evaluating these stations for suitability due to the potential impacts of climate change and land-use land-cover change.

Of the stations selected for analysis, a majority of the stations contain periods of record after the year 2000. However, there are many stations with the period of record ending before 1990 (10-0282, 10-0491, 10-2071, 24-1460, 24-1765, 24-1919, 48-8845, 48-8748, as a few examples).

Given the potential impact of climate change (i.e. change in mean precipitation) as well as land-use land-cover changes, it may be worth to re-evaluate these early ending stations for suitability and extend the period of record with co-located stations where possible.

In NOAA Atlas 14 Volume 12, we merge stations in order to increase record lengths whenever possible. This is to ensure we use all reliable data, without impacting the statistical analysis, which requires at least 20 years of record for sub-daily data and 30 years of record for daily data.

It is common for a station to be decommissioned at one location and for another station to be established at a nearby location, resulting in a break of observing period. In such cases, we merge stations (often within a 5-mile radius) if they belong to the same or similar climatological regions. In the instances of 10-0282, 10-0491, 10-2071, 24-1460, 24-1765, 24-1919, 48-8845, and 48-8748, where records end before 2000, only two of these stations had records merged.

Table A.1.1 in Appendix A.1 gives detailed information on all stations whose data were used in the frequency analysis, including if a station was merged and has additional data from other contributing stations. For example, 48-8748 was merged with and has contributing data from 48-7420, while 10-0491 was merged with two contributing stations, 10-0494 and 10-0493. Stations without data after 1990 just didn't have any suitable merges to add more recent data.

2. PATTERNS OF SPATIALLY INTERPOLATED PRECIPITATION FREQUENCY ESTIMATES

- 2.1** The map in Figure 6 shows 5 relatively high areas of locally high 100-year 24-hour precipitation. These look suspicious. There are obviously many more mountain ranges in central Montana. Why do these other mountain ranges not show similarly high values? Is it because there are no precipitation stations in these other mountain ranges?

We aren't certain of the five specific areas being referenced, but there are four distinct isolated mountain island ranges in Central MT, where 100-year 24-hour estimates exceed 7 inches within each of these areas. In this response, we address these four areas and the gauges that are driving estimates in these locations. These four areas are the Highwood Mtns, Bear Paw Mtns, Big Snowy Mtns, and Little Rocky Mtns; all of these areas have isolated gauges within these mountain ranges or in their vicinity and locally high 100-year 24-hour estimates are supported by the station data. Five gauges at these locations have observed some of the largest 1-day (daily stations) or 24-hour (hourly stations) precipitation events ever measured within the State of Montana. These stations have measured the following: (1) 24-8693 (daily), 8.72 inches in 1-day on June 7, 1906, 5.72 inches in 1-day on June 27, 1998; (2) 24-7148 (hourly), 6.73 inches in 24-hour on June 26-27, 1998, 6.04 inches in 24-hour on May 6-7, 2024 (24-hr); (3) 24-9900 (hourly), 6.49 inches in 24-hour on June 21-22, 2019 (24-hr); (4) 24-7540 (daily), 6.52 inches in 1-day on June 3, 1953, 5.80 inches in 1-day on September 12, 1978; (5) 86-0427 (hourly), 6.10 inches in 24-hour on April 29-30, 2010, 5.70 inches in 24-hour on May 30-31, 2013.

As a result, 100-year 24-hour estimates are going higher in these areas that are driven by these gauges that have measured extreme events in their data record. Aside from receiving some of the largest daily precipitation values measured within the state, some of these locations have the highest 24-hour mean annual maxima (MAM) amounts, within central Montana. Post-peer review, we evaluated many of these mountain peaks and refined spatial patterns, according to the feedback received. As a result, the 100-year 24-hour estimates went down slightly in the Big

Snowy Mtns, but decreased more dramatically in the Highwood Mtns. The largest decrease occurred at 24-7540 (Shonkin 7 S) which was 8.12 in the peer review and has a final estimate of 7.37 inches. There were no significant changes to 100-year 24-hour estimates in the Bear Paw Mtns and Little Rocky Mtns.

- 2.2** Along the border of MT and WY Figure 6 shows a dramatic reduction in the 100-year 24-hour precipitation. On the MT side it shows a significant area of higher precipitation (blue and green colors) and south of the border in WY it shows lower precipitation (brown shades). This looks suspicious. Why does the change happen right at the border or the two states?

Figure 6 is showing the preliminary 100-year 24-hour precipitation estimates for the entire project area. In the vicinity of the Pryor Mountains in southern Montana just north of the border, there is a tight gradient in estimates south of these mountains into northern Wyoming. This gradient is supported by the data at stations within this area. For example, the Montana RAWS station 76-0275 (Pryor Mountain) has a final 24-hour estimate of 5.80 inches, while the closest station south of the border in Wyoming 31 miles away, 48-2415 (Deaver) has an estimate of only 2.37 inches. The resulting patterns between these two stations are primarily following the terrain in this area. Upon closer inspection, it was determined that the gradient was a bit too tight, as estimates actually increased above 6 inches in a small area 10-12 miles south of 76-0275, so we placed an anchor (pseudo) station nearby to improve the PRISM interpolation in this area. The transition between these two stations now looks more reasonable compared to the pattern shown in preliminary estimates. This overall pattern is consistent with estimates developed in Atlas 2, which go from above 5 inches in the vicinity 76-0275 and decrease to as low as below 2 inches in northern WY. This is reflected in Figure 7 which shows the difference between NA14 preliminary estimates and Atlas 2 estimates for 100-yr 24-hour.

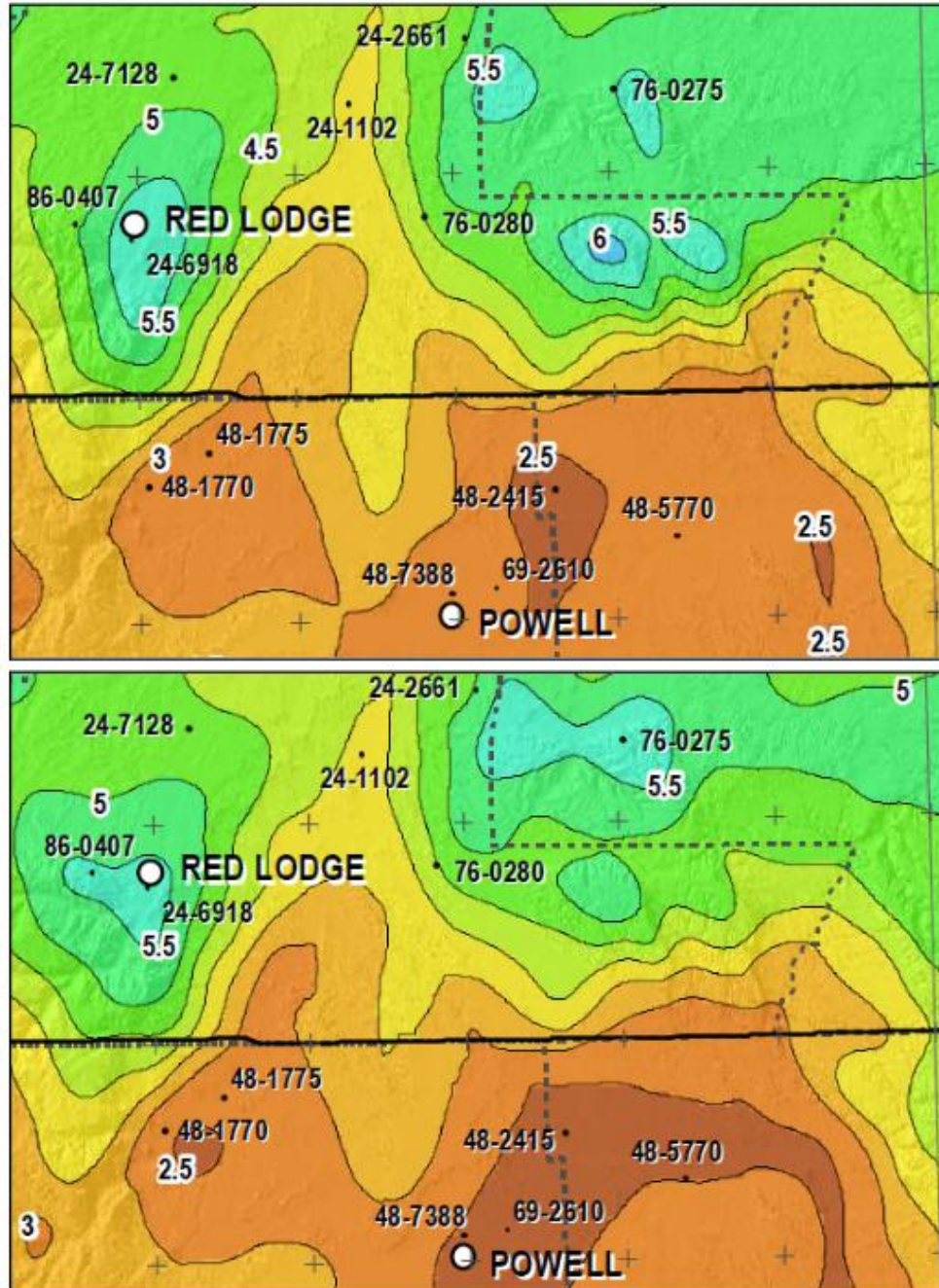
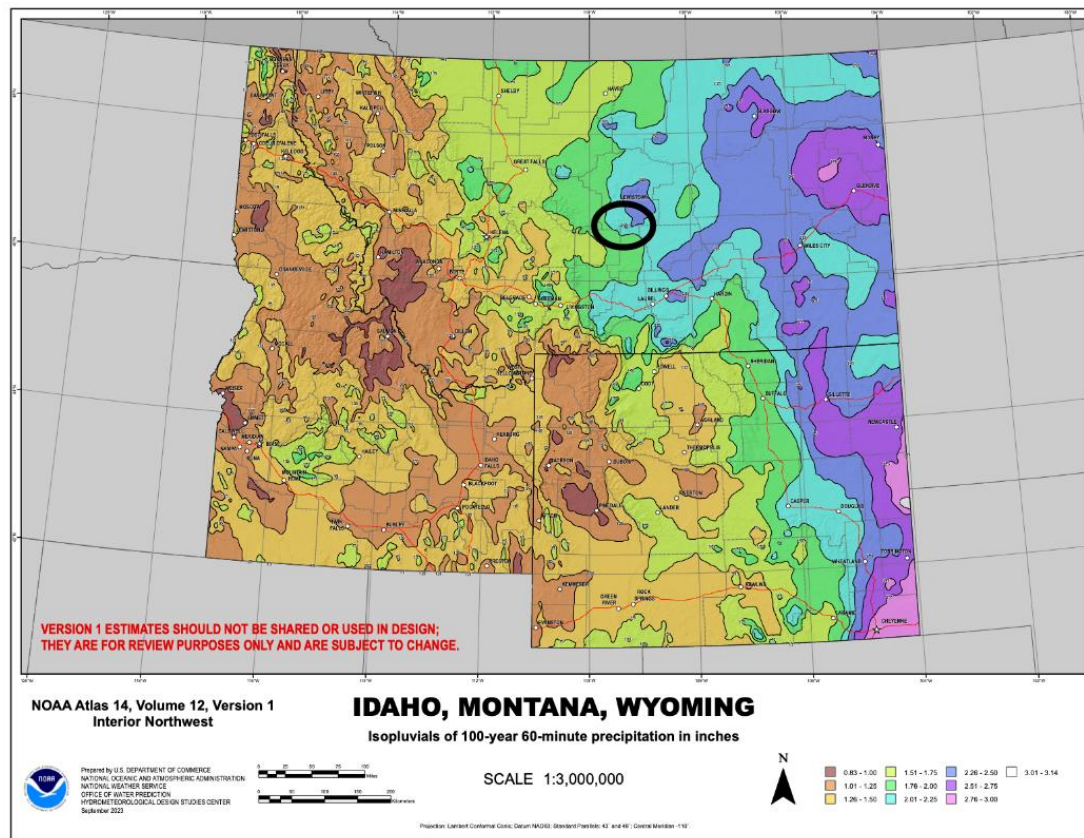
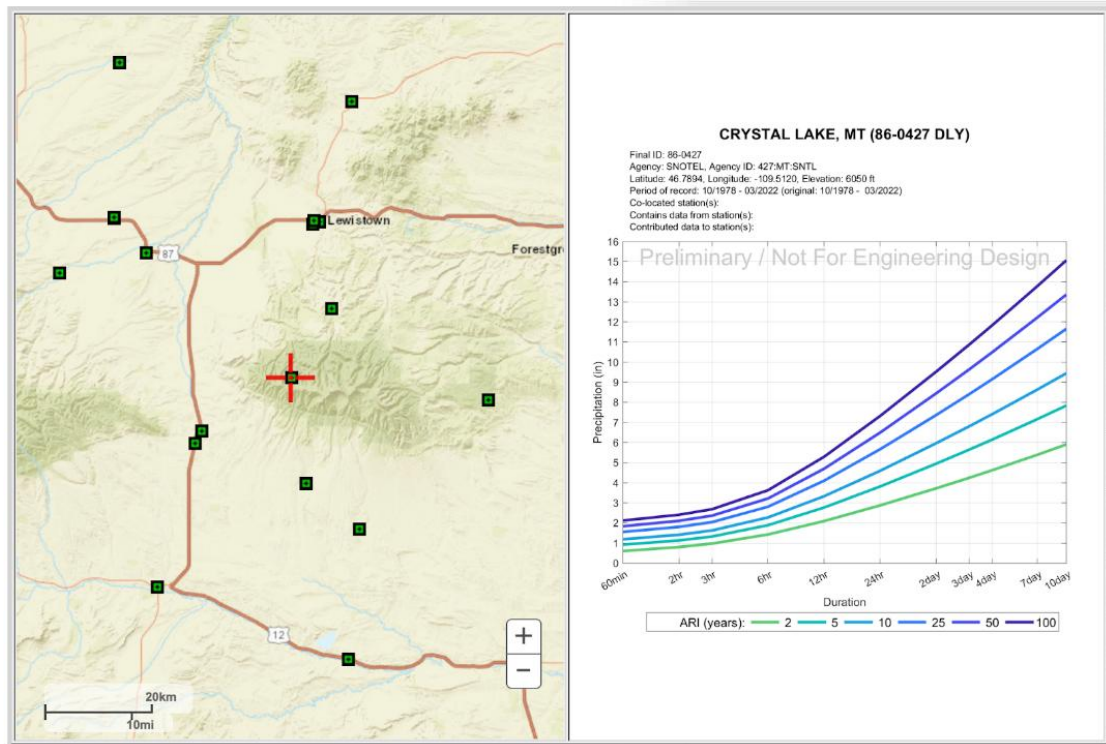
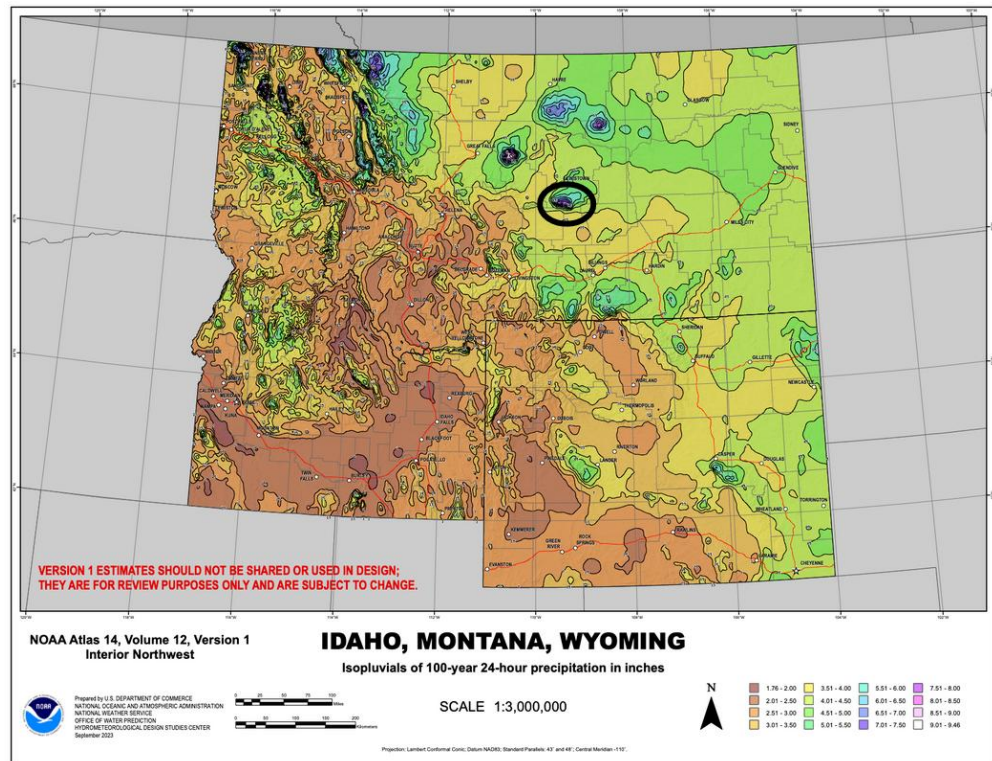
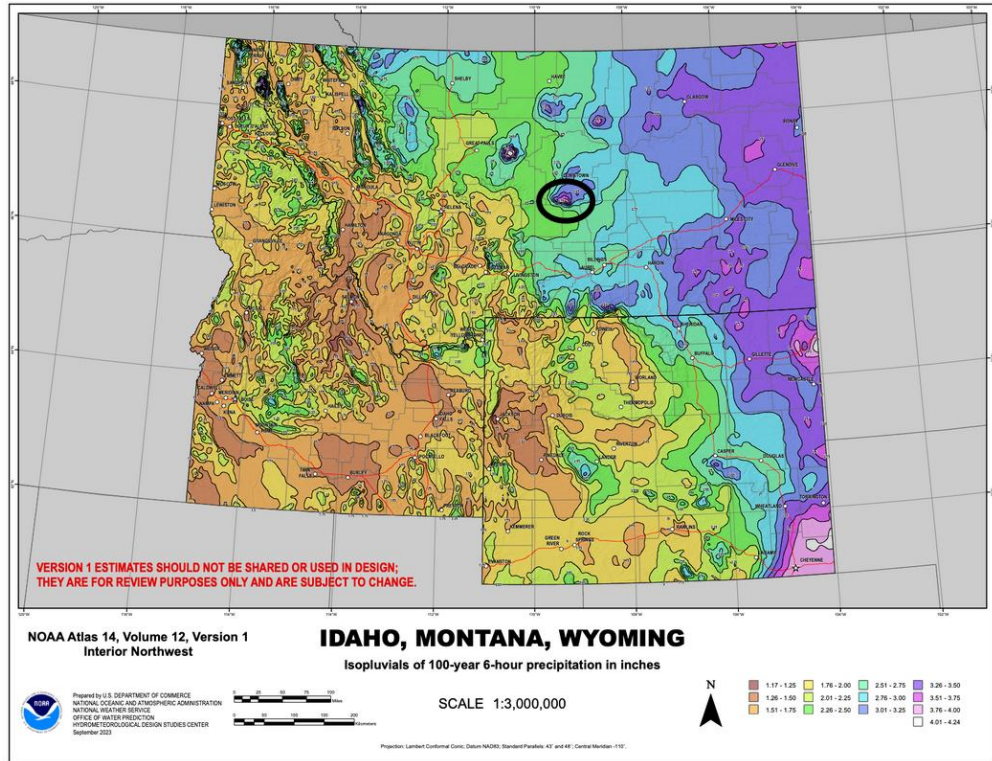
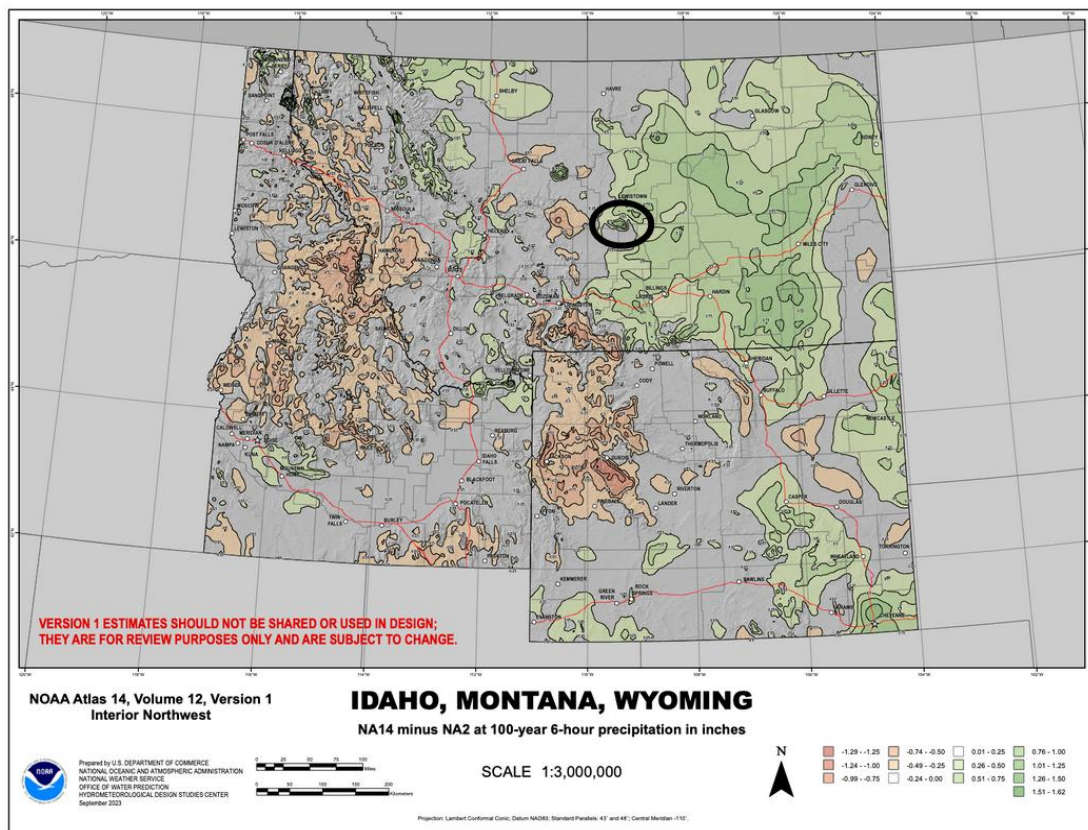
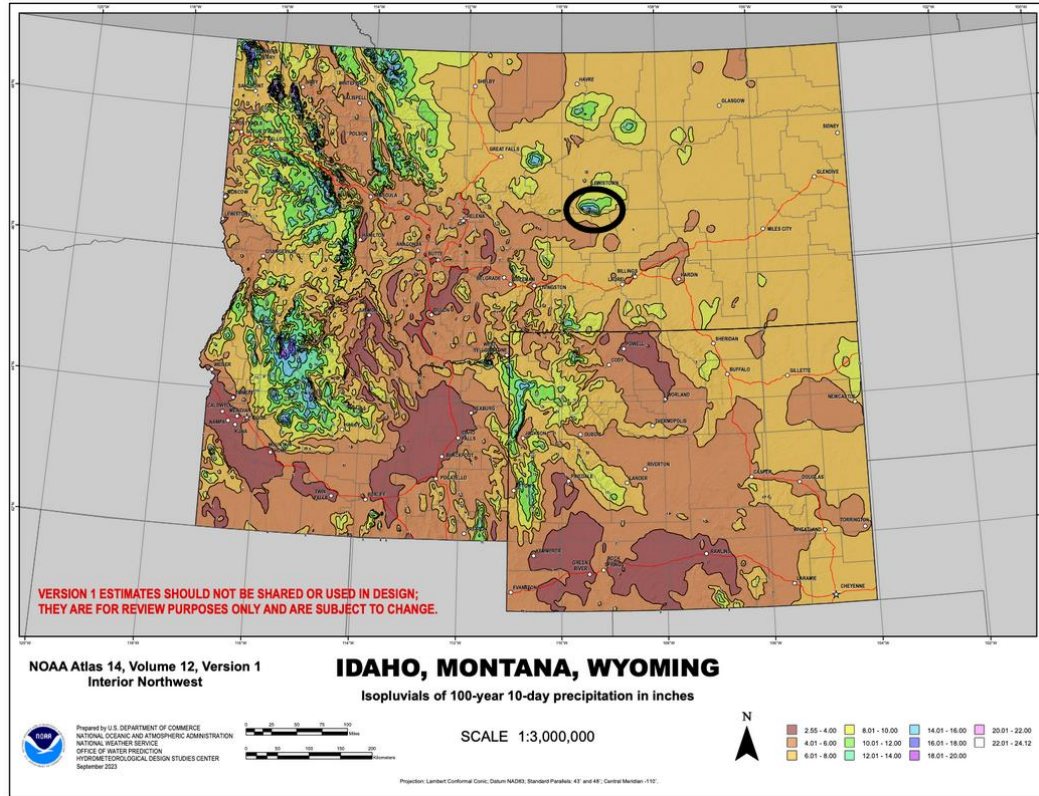


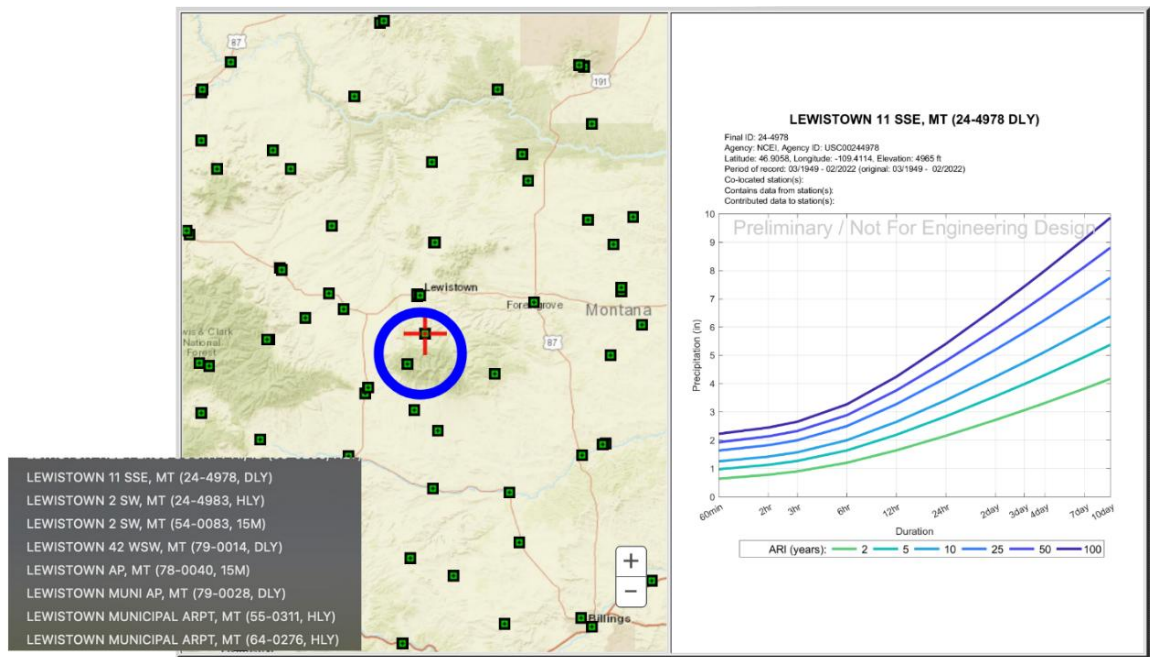
Figure A.4.1. Comparison of preliminary (top) and final 100-yr 24-hour estimates along MT/WY border.

- 2.3 In the area of the black circle in the attached google presentation file [excerpted below], durations 6-hours and greater show a local maxima while the 60-minute duration does not. (No maxima in slide 1). Stations in the blue circle in the higher, presumably upslope terrain SSW of Lewistown, MT are daily only (not hourly or sub-hourly) and therefore capture presumably higher rainfall at longer durations and have no observed data for shorter durations. There are hourly and sub hourly stations near or in Lewistown. I suspect that the mechanism that causes the higher values (estimates) at longer durations also exists at shorter durations but is not captured due to the lack of data.









One of the challenges with developing estimates for shorter durations is indeed the lack of data which impacts the uncertainty of hourly estimates at remote gauge locations. We agree with your comment that estimates should be spatially consistent across durations.

At Crystal Lake, MT, there are co-located daily and hourly SNOTEL stations (86-0427). However, due to the short record of the hourly station and reliability of the data, 1-hour mean annual maximum amounts (MAM) at this location seem to be lower in comparison to MAM values at 6-hour and 1-day. As a result of this feedback, we refined 1-hour MAM grids and the final 1-hour MAM increased from 2.11 to 2.24 at 100-year average recurrence intervals (ARI). This higher value is now more spatially consistent with surrounding stations, and while still not quite as high as other locations south of Lewistown, it's still higher than stations south of Crystal Lake, where estimates quickly drop below 2 inches due to decrease in elevation from the mountains to the prairies.

- 2.4** This is not my area of expertise, so I didn't initially have any comment to offer. However, we do notice a large increase in precipitation amounts compared to NOAA Atlas 2 for all ARI levels over the Highwood Mountains, and the Snowy Mountain Ranges in Central Montana. These appear to be influenced strongly by the Shonkin 7S (247540), and Crystal Lake (860427) records, respectively.

I have no reason to discount the quality of either the Shonkin or Crystal Lake observational record. However, based on my personal experience exploring these island ranges, they do not appear to be ecologically different from other island ranges (for example, consider tree biomass density), nor do they appear to suffer from extreme rainfall or debris flow producing events compared to other areas of Central Montana.

So, the only comment I have in terms of peer review is to ask that the relative influence of these two locations be examined more closely.

The Shonkin 7S (24-7540) data consistently receives heavy daily precipitation events, including 19.9 inches in a 12-day period of June of 1953, which was one of the most extreme longer duration events ever measured in Central MT. As a result of consistent heavy daily precipitation events, this location has the highest 2-year 24-hr precipitation estimate in Montana east of the Continental Divide at 2.95 inches. In comparison, the Crystal Lake SNOTEL site (86-0427) appears to be the 2nd largest at 2.85 inches.

The large differences between preliminary NA14 Volume 12 and NOAA Atlas 2 estimates in these island mountain areas is likely due to differences in record length and station density. According to the documentation for NA2, the 24-7540 only had 10-14 years of data when it was first analyzed in the early 1970s, at the time of this study publication, while in our study, this station now has 61 years of data.

Post-peer review, we have improved these areas by appending underlying data to include two additional data years (2022 and 2023) and improving mean annual maximum precipitation (MAM) grids. After closely reviewing this station's statistics and making improvements to its region, the new 24-hour 100-year estimate decreased from 8.12 inches to 7.37 inches. The Crystal Lake SNOTEL site also reduced slightly from the peer review estimate of 7.36 to the final estimate of 7.12 inches.

2.5 The spatial coverage of stations inside the INW domain and surrounding buffer is relatively good.

Based on the Köppen climate classification, Figure 1 depicts the climate zones of the Interior Northwest (INW), as well as the stations used to develop Atlas 14 Volume 12. Out of over 15000 available stations, 1892 (in INW) and 892 (outside INW) stations are used for precipitation frequency analysis and development of gridded precipitation frequency estimates. Each climate zone in the INW has appropriate spatial coverage to be used for analysis. Additionally, the stations selected outside the INW provide a reasonable buffer for complete coverage and development of gridded precipitation frequency estimates.

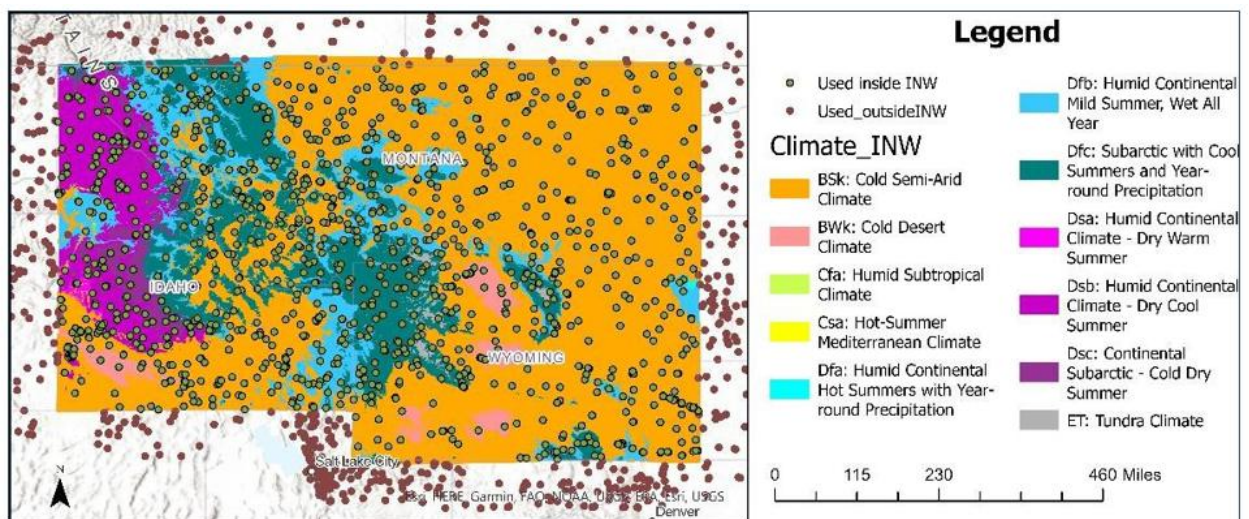


Figure 1. Atlas 14 Stations, Climate Regions in Interior North West (INW).

Thank you, we agree with your comment about the spatial coverage.

- 2.6 The method of interpolation of precipitation grids is appropriate, consistent with other volumes.

The same interpolation method applied to other Atlas 14 volumes is also applied to INW region. The stations provide full spatial coverage of the project area. Thus, given the frequency analysis properly estimated precipitation depth, the precipitation grids are deemed to be properly interpolated and consistent with other Atlas 14 volumes.

We agree with your conclusion. For NOAA Atlas 14 Volume 12, the interpolation method, based on corresponding mean annual maximum grids at 30 arc-seconds resolution using a hybrid statistical-geographic approach for mapping climate data named Parameter-elevation Regressions on Independent Slopes Model, has been applied to the INW region. This is the same interpolation method applied to other NOAA Atlas Volumes.

- 2.7 In previous NOAA Atlas 14 Volumes, I believe we added "synthetic" or "anchor" stations to aid the prism interpolation in select areas where data for certain durations existed but not other durations, for example, most frequently when daily data existed but hourly or sub hourly did not or the daily data was a much longer (period of record) than hourly data.

This [referring to question 2.3] is just one example that I found but I suspect there may be more. Maybe you could come up with some routine to automatically check every daily-only station? Or come up with some automated routine to pick out return periods that have local maxima or minima for 24-hour and greater durations that do not have maxima for hourly durations? However, if you suspect there is a different mechanism or regime that could explain the difference in maxima vs. no maxima in different durations then some of this would not be needed. However, I suspect similar regimes at all durations from such things and enhanced upslope flow conditions etc. I also suspect the same could be true for local minima.

In NOAA Atlas 14 Volume 12, as in the previous NOAA Atlas 14 volumes, we added hourly anchor (pseudo) stations at 1-hour and 6-hour to aid PRISM interpolation during the development of MAM grids. In this project area due to complex terrain, for the first time, we used the SNOTEL hourly stations to help us estimate hourly values at daily SNOTEL stations. This network has a very short record and data quality issues, so we primarily used these stations where data matched the quality controlled daily SNOTEL data.

We reviewed spatial maps for reasonable patterns across durations both during the development of gridded MAM and final estimates. We also reviewed all station DDF curves where inconsistencies between hourly and daily durations were noticeable. We generally expect less variability at shorter durations like 1-hour, which may contribute to fewer maxima/minima compared to longer durations. High elevation areas that record heavy long-duration precipitation (e.g. orographic/upslope precipitation) compared to nearby areas at lower elevations may not have conditions suitable for heavy short-duration precipitation (e.g. driven by localized convection) of a similar magnitude.

3. COMPARISON WITH OTHER STUDIES

- 3.1 Looking at the differences between Atlas 14 and 2, the only area I flagged was southeast Idaho southeast of Burley, ID where there were inconsistencies between the 6 and 24 hour 100-year event. Some areas on the 24-hr showed positive differences for example while the 6 hours had a negative change. I would just double check that area to see if there might be a gage impact there.

In the mountains southeast of Burley, estimates are primarily being driven by a single SNOTEL station, 86-0534. After reviewing this area, we agree that the 24-hour estimate at this location is increasing more than 1 inch relative to Atlas 2, while 6-hour is relatively unchanged and has a slight decrease away from the mountain peak.

Through redefining the regionalization and MAM grids, it was determined that 6-hour 100-yr estimates were low in this area and were increased accordingly. The SNOTEL station (86-0534) increased from the peer review amount of 2.28 to the final estimate of 2.48 inches, resulting in this location being the highest 100-yr estimate for 6-hour in this part of the state. The 24-hour estimate at 86-0534 station at 100-yr was decreased from 4.86 to 4.54 after reviewing spatial patterns in this area and inspecting the at-station DDF curve. It is now more in line with the 24-hour estimates at another SNOTEL station, 86-0484 to the east, which is at 4.40 inches.

- 3.2 Randomly selecting several stations within different climate zones, station locations are deemed to be reasonable. Two examples from the “Cold Semi-Arid Climate”:
- (1) Atlas 14 yields higher precipitation depth compared to Atlas 2 at station King Coulee, MT (Figure 2).
 - (2) Atlas 14 again yields higher precipitation depth compared to Atlas2 at station Oregon Trail Crossing (Figure 3). This is an example of co-located stations (Hourly and 15-min) with contributing station (15- min). These stations are well presented.

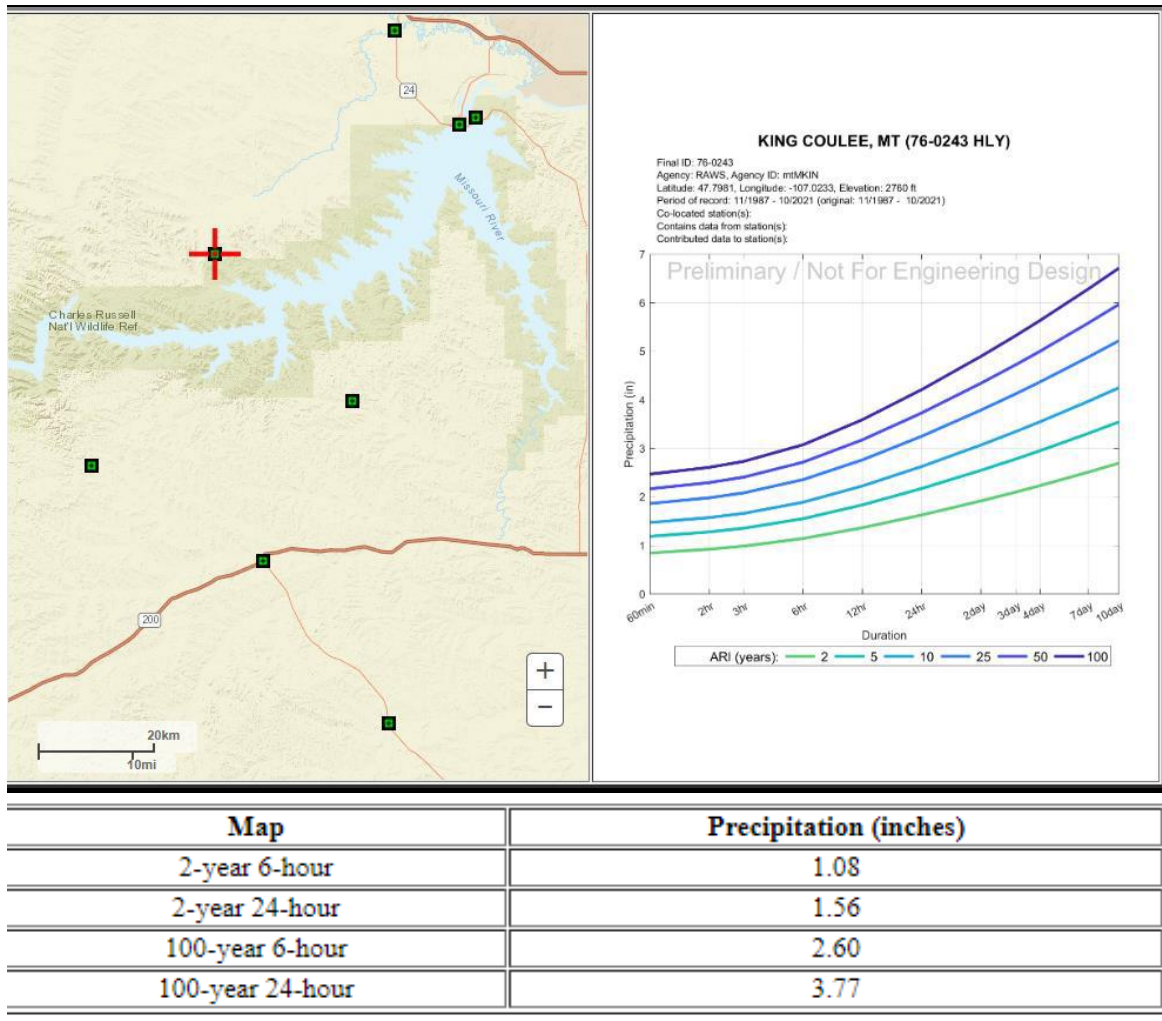


Figure 2. Estimates for King Coulee MT (76-0243, HLY) in Cold Semi-Arid Climate region from Atlas 14 (top) and from Atlas 2 (bottom) using the same latitude-longitude.

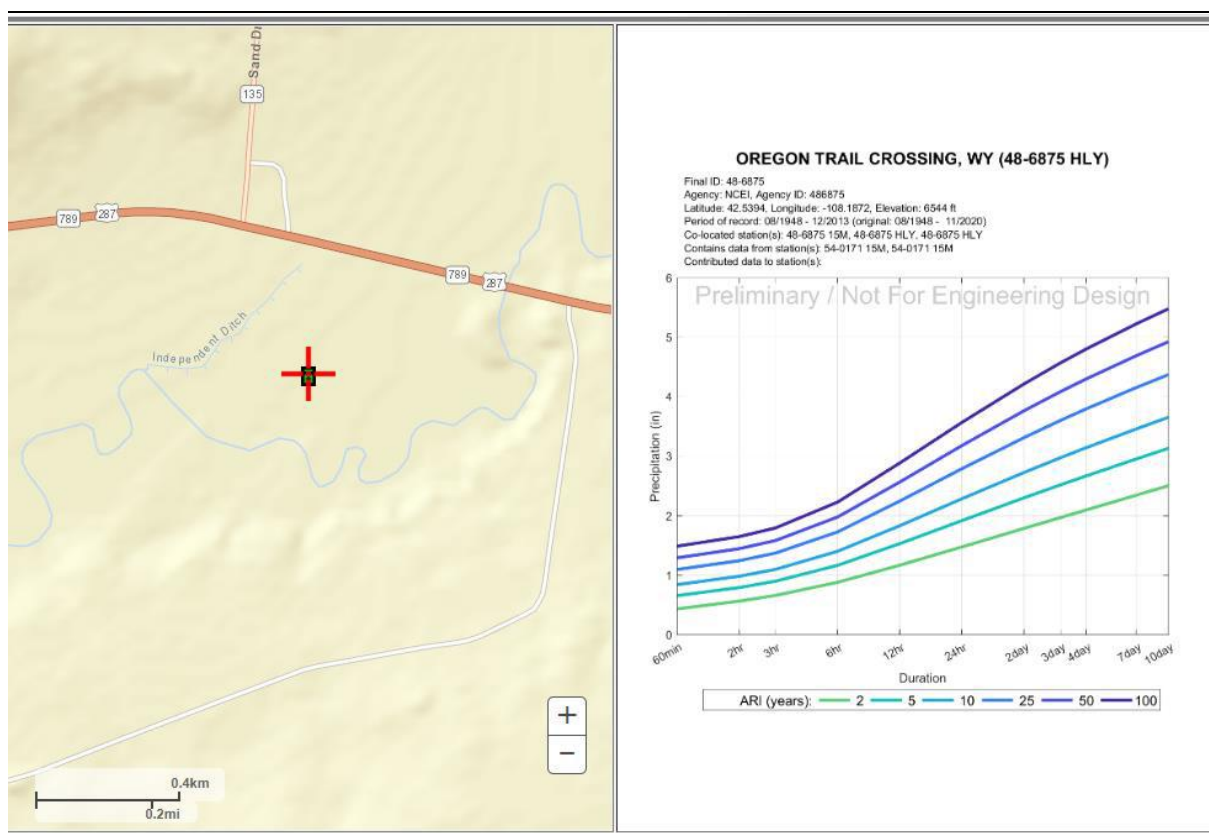


Figure 3. Estimates for Oregon Trail Crossing (co-located HYL/15-MIN-48-6875), contributing (54-0171 15-min) in Cold Semi-Arid Climate region from Atlas 14 (top) and from Atlas 2 (bottom) using the same latitude-longitude.

Upon review of spatial patterns and DDF curves, it was determined that the PRISM-interpolated 24-hour MAM amount at the location of 48-6875 was going high relative to the at-station AMS data for this station, resulting in unrealistic patterns on the 100-year 24-hour map. We addressed this discrepancy between the AMS data and the 24-hour MAM by manually decreasing both the 2-year and 100-year estimates. This resulted in estimates being more comparable with the closest station 48-4925, while still slightly higher, and resulted in improved spatial patterns in the vicinity of 48-6875. A summary table of the difference between final NA14 and NA2 estimates for King Coulee, MT (76-0243) and Oregon Trail Crossing, WY (48-6875) locations are provided below. For a full comparison between final NA14 estimates and past NOAA publications, please see Section 7.

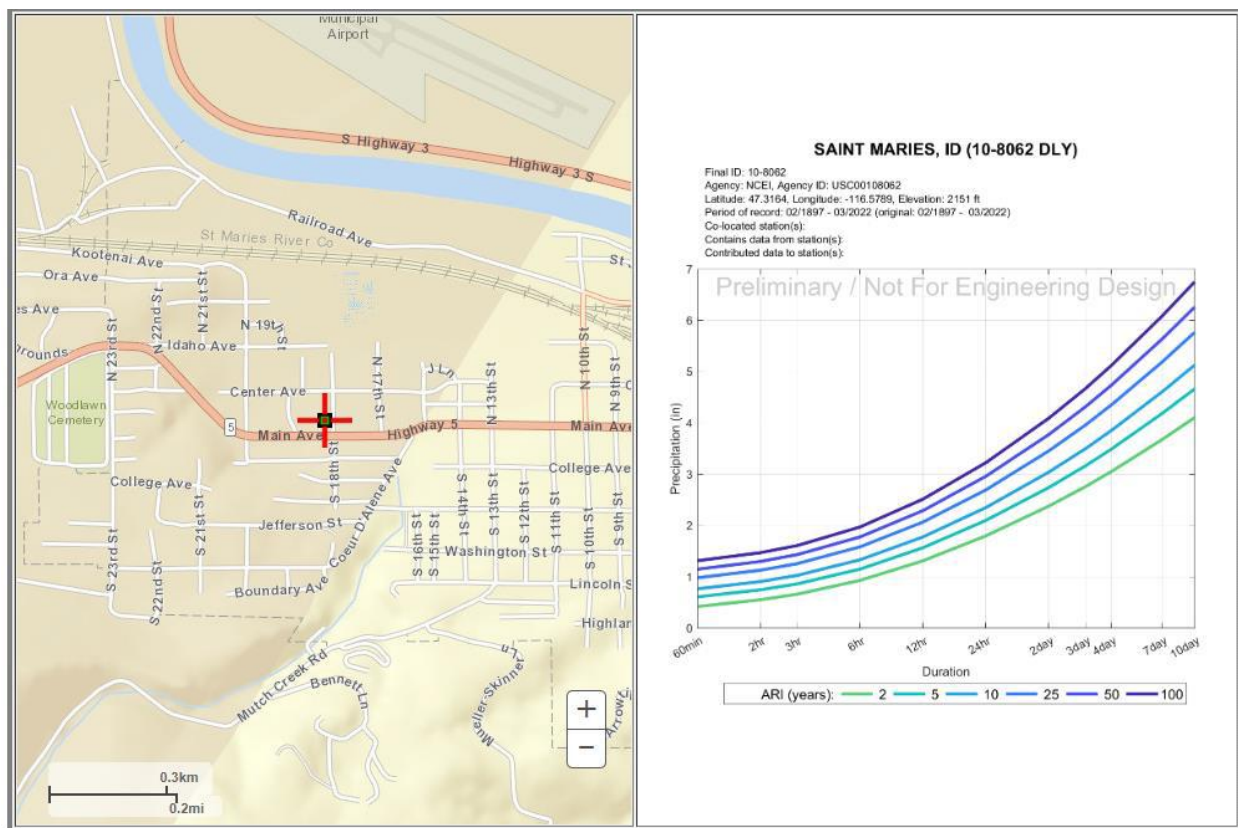
Table A.4.1. Comparison between preliminary and final NA14 estimates and past NOAA publication for selected durations (6-hour, and 24-hour) and AEP (2-year, and 100-year) for King Coulee, MT (76-0243) location.

Map	NA2 Precipitation (inches)	Preliminary NA14 Precipitation (inches)	Final NA14 Precipitation (inches)
2-year 6-hour	1.08	1.13	1.16
2-year 24-hour	1.56	1.62	1.64
100-year 6-hour	2.60	3.04	3.07
100-year 24-hour	3.77	4.21	4.26

Table A.4.2. Comparison between preliminary and final NA14 estimates and past NOAA publication for selected durations (6-hour, and 24-hour) and AEP (2-year, and 100-year) for Oregon Trail Crossing, WY (48-6875) location.

Map	NA2 Precipitation (inches)	Preliminary NA14 Precipitation (inches)	Final NA14 Precipitation (inches)
2-year 6-hour	0.75	0.86	0.86
2-year 24-hour	1.15	1.48	1.41
100-year 6-hour	2.01	2.16	2.26
100-year 24-hour	2.95	3.60	3.32

- 3.3** Randomly selected examples within “Humid Continental Climate-Dry Cool Summer” (dbf):
- 1) Atlas 14 yields similar precipitation to Atlas 2 at station Saint Maries, ID (Figure 4)
 - 2) Atlas 14 yields similar precipitation to Atlas 2 at station Hemlock Butte, ID. This is an example from a SNOTEL station (Figure 5)



Map	Precipitation (inches)
2-year 6-hour	0.89
2-year 24-hour	1.66
100-year 6-hour	1.79
100-year 24-hour	3.25

Figure 4. Estimates for Saint Maries, ID (10-8062, DLY) in Humid Continental Climate – Dry Cool Summer from Atlas 14 (top) and from Atlas 2 (bottom) using the same latitude-longitude.

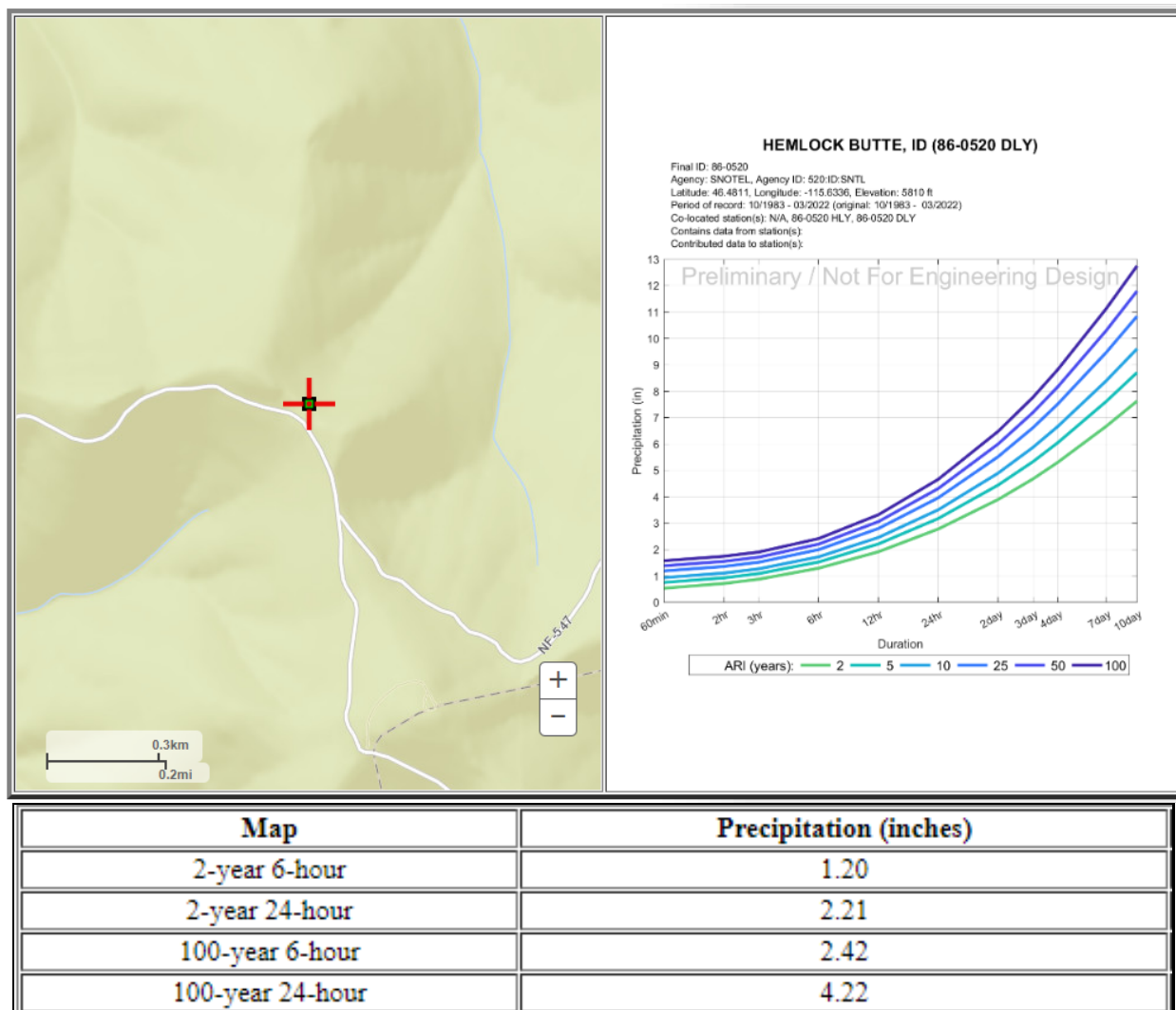


Figure 5. Estimates for Hemlock Butte, ID (86-0520 DLY) in Humid Continental Climate – Dry Cool Summer from Atlas 14 (top) and from Atlas 2 (bottom) using the same latitude-longitude.

Estimates at Saint Maries and Hemlock Butte didn't change significantly between preliminary and final estimates. Any differences between preliminary and final estimates can be attributed to the AMS data update of 2022 and 2023, improvement of MAM grids, refinement in regionalization and spatial patterns, and smoothing of DDF curves. For a full comparison between final NA14 estimates and past NOAA publications, please see Section 7, and below please find a summary of the final estimates for these two stations in comparison to Atlas 2.

Table A.4.3. Comparison between preliminary and final NA14 estimates and past NOAA publication for selected durations (6-hour, and 24-hour) and AEP (2-year, and 100-year) for Saint Maries, ID (10-8062) location.

Map	NA2 Precipitation (inches)	Preliminary NA14 Precipitation (inches)	Final NA14 Precipitation (inches)
2-year 6-hour	0.89	0.91	0.96
2-year 24-hour	1.66	1.78	1.76
100-year 6-hour	1.79	1.94	1.93
100-year 24-hour	3.25	3.20	3.15

Table A.4.4. Comparison between preliminary and final NA14 estimates and past NOAA publication for selected durations (6-hour, and 24-hour) and AEP (2-year, and 100-year) for Hemlock Butte, ID (86-0520) location.

Map	NA2 Precipitation (inches)	Preliminary NA14 Precipitation (inches)	Final NA14 Precipitation (inches)
2-year 6-hour	1.20	1.26	1.31
2-year 24-hour	2.21	2.73	2.70
100-year 6-hour	2.42	2.33	2.46
100-year 24-hour	4.22	4.59	4.59

- 3.4** Finally, station Nez Perce Camp, MT is located in the “Subarctic with Cool Summer and Year-Round Precipitation Climate”. Compared to Atlas 2, a reduction of precipitation is projected according to Atlas 14 estimates (Figure 6).

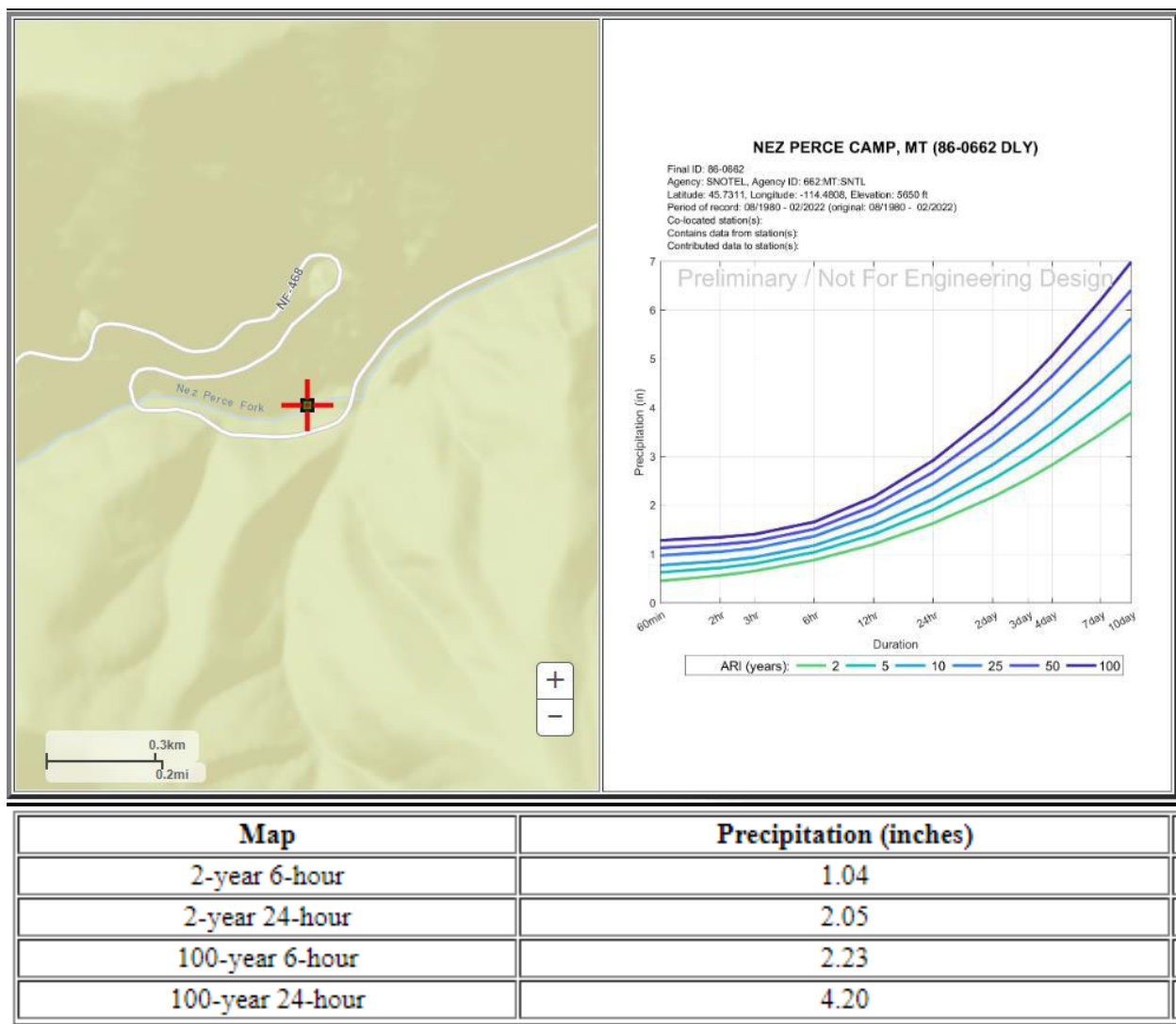


Figure 6. Estimates for Nez Perce Camp, MT (86-0662 DLY) in Subarctic with Cool Summer and Year-Round Precipitation Climate from Atlas 14 (top) and from Atlas 2 (bottom) using the same latitude-longitude.

The 100-year 24-hr estimate is notably lower than NA2 at Nez Perce Camp (86-0662), but this reduction is consistent with a large area along the ID/MT border where estimates have decreased by as much as 47%. There are a few reasons we can attribute to differences between the two studies, including the statistical estimation procedure (L-moments) and spatial interpolation schemes that are much improved over what was available in the 1970s and can considerably impact estimates at ungauged locations. Also, the increase in the amount of available data from NA2 to NA14, both in the number of stations (spatial coverage) and their record lengths, has a considerable effect on estimates. NA2 only used data through 1970, so potentially more than 50 additional years of data are available at existing stations for the NA14 analyses. Many stations that weren't suitable for frequency analysis in NA2 due to short records most likely are included in NA14. In NA2, the location of 86-0662 and surrounding mountainous areas was extremely lacking of data, which would've made it difficult to develop reliable estimates here. For a full comparison between final NA14 estimates and past NOAA publications, please see Section 7, and below please find a summary of the final estimates of this station in comparison to Atlas 2.

Table A.4.5. Comparison between preliminary and final NA14 estimates and past NOAA publication for selected durations (6-hour, and 24-hour) and AEP (2-year, and 100-year) for Nez Perce Camp, MT (86-0662) location.

Map	NA2 Precipitation (inches)	Preliminary NA14 Precipitation (inches)	Final NA14 Precipitation (inches)
2-year 6-hour	1.04	0.86	0.89
2-year 24-hour	2.05	1.61	1.61
100-year 6-hour	2.23	1.58	1.66
100-year 24-hour	4.20	2.90	2.90

- 3.5** Compared to Atlas 2, there are multiple hotspots identified with abnormal differences in magnitude and spatial extent. It is necessary to evaluate and document the reasoning for abrupt (abnormal) changes.

We focus on the difference in 100-year 24-hour frequency grids as the example. Compared to Atlas 2, the 100-year 24-hour precipitation may decrease as much as 2.4 inches or increase as much as 5.15 inches at some locations (Figure 7). Spatially, decreases in Atlas 14 tend to be seen in Idaho, Western Montana, and Western Wyoming, in areas of complex topography. Conversely, the increases in Atlas 14 precipitation tends to be more widespread and seen in Eastern Montana and Wyoming, as well as the leeward side of the Northern Rockies in Montana. Our goal is to evaluate whether the hot spots (abnormal increases/decreases) are reasonable based on the current draft version.

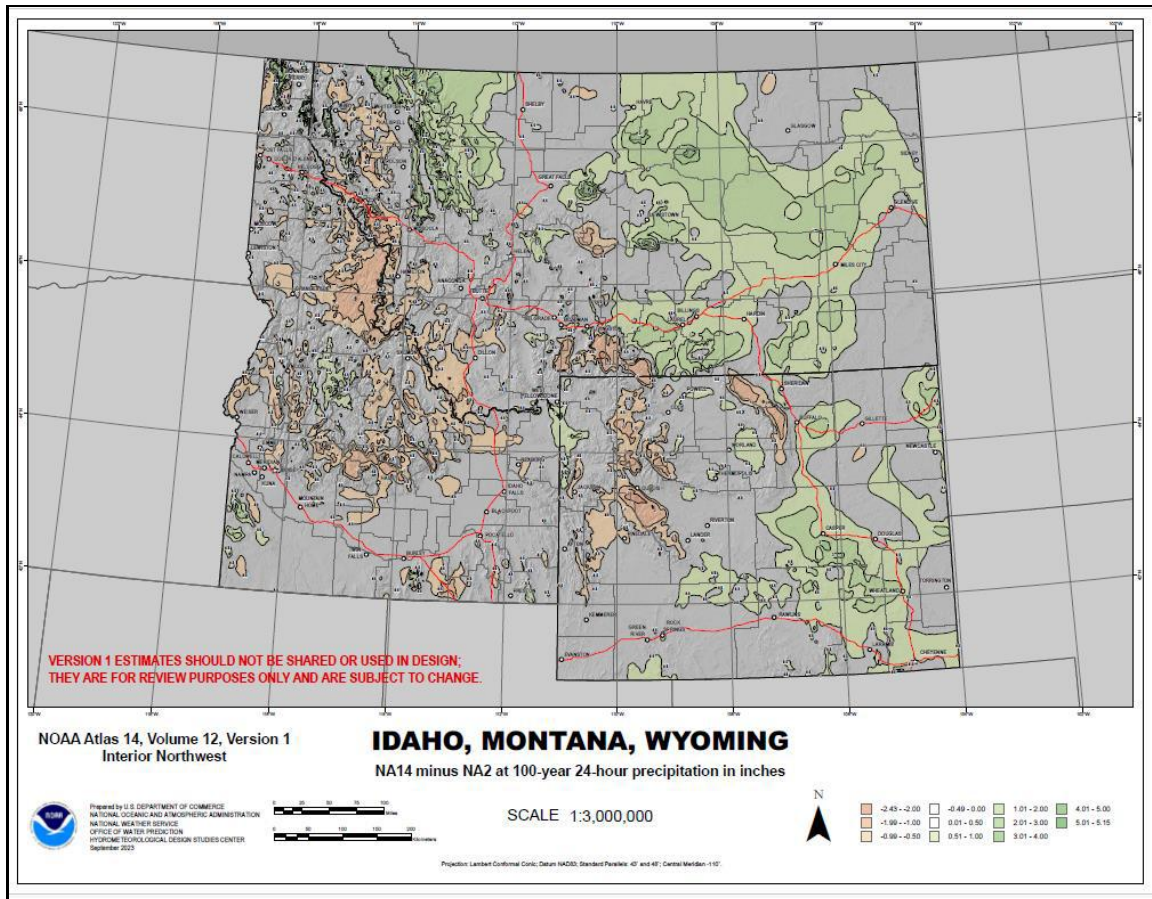


Figure 7. Difference between Atlas 14 and Atlas 2 100-year 24-hour precipitation in inches

An example of a large hotspot can be seen around Great Falls, MT (Figure 8). An increase in precipitation as high as 4 inches is estimated, which seems abnormally high. After reviewing the stations in the surrounding area (Figure 9), Table 1 lists the 100-year 24-hour precipitation depths extracted from Atlas 14 and Atlas 2. Of the stations evaluated, over 50% increase (about 3 inches) is identified at Station Shonkin 7S (NA2-5.1 in; NA14-8 in), which is not comparable amongst three stations with similar elevation and in same dfb climate zone. As a result, it may be necessary to re-evaluate the hotspots with abrupt/abnormal changes.

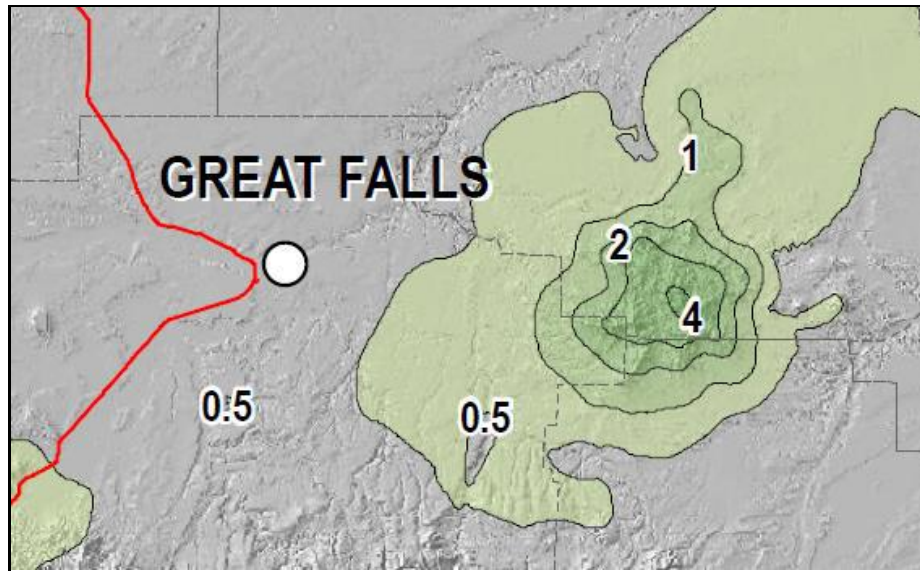


Figure 8. Hot spot example around Great Falls, MT.

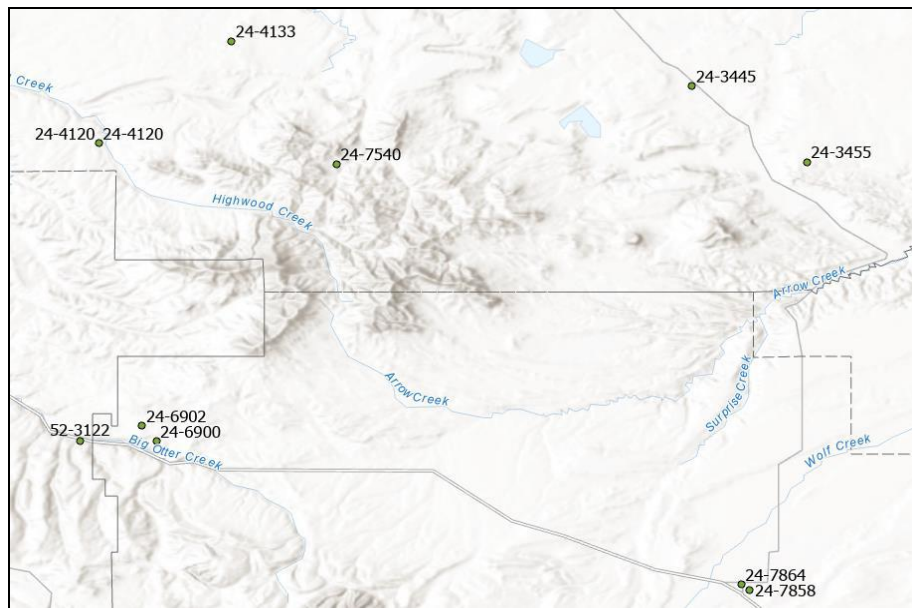


Figure 9. Stations around hot spot in Great Falls, MT.

Table 1. Stations near Great Falls, MT hotspot location

Station	ID	LAT	LONG	Climate [#]	NA14*	NA2	difference
Highwoods	24-4120	47.55	-110.7833	dfb	5	4.53	0.47
Raynesord 2NNW	24-6902	47.2972	-110.7456	dfb	4.8	4.15	0.65
Shonkin 7S	24-7540	47.5317	-110.5764	dfb	8	5.1	2.9
Geraldine	24-3445	47.6014	-110.2669	bsk	4.6	4.12	0.48
Stanford	24-7864	47.155	-110.2239	bsk	4	3.76	0.24

*: approximated by reading from the DDF curve.
[#]: dfb-humid continental mild summer, wet all year; bsk-cold semi-arid

The final 24-hour 100-yr estimate for station 24-7540 decreased from 8.12 inches to 7.37 inches, while the final 6-hour 100-yr estimate at this location increased from 3.77 to 3.94 inches. These changes are the result of appending underlying data to include two additional data years (2022 and 2023), improving mean annual precipitation (MAM) grids, and refining regionalization. This revision produced a more reasonable DDF curve that is comparable to estimates at the other mountain ranges.

Any large scale differences between NA2 and NA14 are supported by the data. In the final estimates, for example, in the vicinity of Station Shonkin 7S, NA2 100-year 24-hour is somewhere in the range 5.0 - 5.39 inches, while NA14 has a range of 7 - 8.12 inches. While the final estimates have decreased in comparison to the peer review in this area, NA14 estimates are still more than 2 inches higher relative to NA2, considerably less than the difference of 3-4+ inches between NA2 and preliminary estimates.

- 3.6 Applied Weather Associates, LLC completed a study for WY state dated 2014, which includes a 100-year 24 hr precipitation map. The final report of this study can be found at: Wyoming Water Development Commission (state.wy.us). There appears to be differences between NOAA's map in Figure 6 and the map created by Applied Weather Associates. Some of this is no doubt due to the difference in scales between the maps. In a broad general comparison, the isopluvial lines show similar values of precipitation between the maps. But when you study them closer, the NOAA map in Figure 6 does not appear to capture the significance of the orographic effects. Especially in the western mountain ranges of Wyoming. Also, the isopluvial lines on NOAA's map do not show the same level of detail as the map by Applied Weather Associates in the high deserts and plains areas of Wyoming. If all anomalies are only due to the scale of the maps, then maybe there are no concerns. If not, then consideration of the differences may be warranted.

We reviewed both AWA study images of grids and grids itself, available by request from the Wyoming Water Development Commission. Some of the differences between the preliminary NA14 and AWA study may be attributed to differences in the scale of the contours; AWA study shows 0.25 inches contours while NA14 peer review maps every 0.50 inches.

For our comparison, we used the grids available by request from the Wyoming Water Development Commission, given that those represent the final version of the datasets. The differences between the 2-year and 100-year gridded estimates are mostly due to the difference in the data networks and record lengths used in these two studies. The AWA study used data only though 2010, while we used data through 2023, adding 13 more years of observations and leading to the inclusion of additional stations from networks with shorter record lengths such as SNOTEL. Many SNOTEL were likely omitted from the AWA analysis because at the time they had

not yet met the 30-year record length threshold, and we expect that the resulting grids rely on the interpolation method, rather than observations, in the vicinity of those stations, resulting in overestimation in those areas.

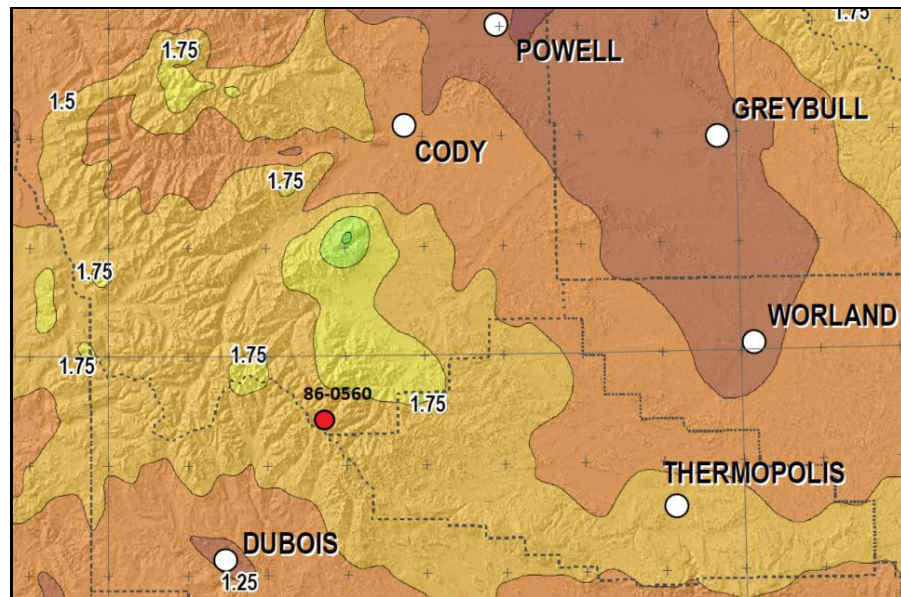


Figure A.4.2. NA14 2-year 24-hour precipitation estimates in the vicinity of station Kirwin, WY (86-0560) location.

In NOAA Atlas 14, Figure 6 of the peer review maps show locations supported by data coming from SNOTEL stations. For example, SNOTEL station Kirwin, WY (86-0560) in NA14 has a 2-year 24-hour estimate of 1.59 inches, while the gridded amount from AWA is 2.08 inches for this location, a large difference of 0.49 inches. This station however has only ever measured one instance of 2.00 inches or more in a day (constrained midnight to midnight measurement) over the past 44 years. This large difference at 2-year likely propagated to 100-year grids, and this is likely the main reason why the 100-year 24-hr gridded value from AWA is about 1 inch higher than the final estimate from NA14. The table below shows the largest ten 1-day precipitation events measured in the record for 86-0560 over the period from 1980 - 2023. In the case of this station, we don't know for certain, but we suspect the station wasn't directly used to develop 2-year 24-hour estimates because of the large discrepancy between the at-station data and the gridded estimates from AWA.

Table A.4.6. Largest ten 1-day precipitation events for Kirwin, ID (86-0560) location in the record from 1980 - 2023.

Rank	Precipitation (inches)	Date
1	2.40	5/5/2007
2	1.80	5/5/1993
3	1.80	6/15/1992
4	1.70	5/28/2019
5	1.70	5/27/2019
6	1.70	5/7/2016
7	1.70	9/19/1990
8	1.60	10/12/2023
9	1.60	5/30/2022
10	1.60	9/13/1982

4. MISCELLANEOUS

- 4.1 I've reviewed through the proposed updates for the precipitation frequency estimates for ID/MT/WY. I don't have any comment about the new data itself, but am wondering if there will be any notable discontinuities across state boundaries (e.g. North Dakota/Montana). It would seem that your use of the buffer stations outside the domain would mitigate this, but have you created any plan view plots of, for instance, the 100-year ARI for 24-hour precipitation that include the bordering states? If there are discontinuities, how would you plan to address them?

In the NOAA Atlas 14 Volumes, the discontinuities between the volume boundaries exist due to the reimbursable funding model that provides the funding at different times, and sometimes, the updates between the volumes span more than 20 years. The boundary issue between Volume 12 and Volumes 8 and 1 will be evident and will not be addressed in this update.

We are currently developing the revised version of the Precipitation Frequency Standard, referred to as the Atlas 15 estimates with the funding support of the Bipartisan Instructure Law. This revised standard is currently being developed as a seamless national analysis. The final publication of the Atlas 15 estimates over the contiguous United States is planned for publication in 2026. For more information on this project, please see https://www.weather.gov/media/owp/hdsc_documents/NOAA_Atlas_15_Flyer.pdf.

- 4.2 The interactive website is very neat.

The preliminary peer review pages are designed for the peer review process. The final estimates are published on the Precipitation Frequency Data Server (PFDS), available here: <https://hdsc.nws.noaa.gov/pfds/>

- 4.3 I have no issue with the data. I spot checked some with the IDF curves we currently use and they seem relatively similar, as I would expect they ought. I appreciate Fig 7 showing the differences.

Thank you for taking time and effort to review the Volume 12 preliminary estimates.

- 4.4 The current web data under Cartographic Maps of Precipitation Frequency Estimates jumps from 2-year to 100-year as precip options. Will this subsection be expanded to include the usual 5, 10, 25, and 50 estimates?

For the purpose of peer review, we have only provided the preliminary 2-year and 100-year cartographic maps. The final publication includes an expanded set of cartographic maps, as seen in the table below. We provide cartographic maps for select frequencies, and durations as these are intended to be used as visual aids since estimates can be obtained directly from high resolution grids available through the PFDS interface. These grids are available for 1-year through 1000-year estimates, durations 5-minute through 60-day.

ARI (years)	Duration						
	60-min	6-hr	24-hr	2-day	10-day	30-day	60-day
2	✓	✓	✓	✓	✓	✓	✓
5	✓	✓	✓				
10	✓	✓	✓				
25	✓	✓	✓				
50	✓	✓	✓				
100	✓	✓	✓	✓	✓	✓	✓

Figure A.4.3. A list of provided NOAA Atlas 14 cartographic maps of precipitation frequency estimates in the PDF format for selected average recurrence intervals (ARIs) and durations.

- 4.5 For the data used, the only question I have is did you weight the gages based on the quality of the network. All networks are not equal. For example, due to the location in the country, heated gages should always be weighted more. When not heated 8 inch should take precedence over 4 inch CoCoRHaS type gages. It was not clear in the metadata if all were treated equally when creating the objective analysis. I assume they were.

We collect individual networks that have reliable and long records of precipitation. Less reliable networks that have much shorter record lengths, such as real-time transportation networks were not used for this analysis. Once all data is collected, we then quality control extreme time series extracted at each station and we consider only stations that have more than 20 years at sub-daily and more than 30 years for daily gauges. This criteria alone eliminates many stations where quality is an issue.

We agree that location of this project plays a part in the quality of networks. The majority of our data comes from the NCEI networks, mainly the Hourly Precipitation Data (HPD), Local Climatological Data (LCD), and Global Historical Climatology Network daily (GHCNd), which are weighted equally. For this analysis we are mostly interested in extreme precipitation events which often come in the form of liquid precipitation, even in high elevation areas. This is particularly true for events at sub-daily durations. For this reason, having heated or unheated gauge networks becomes less important for this analysis for shorter durations but can impact the results for longer durations events if a station doesn't reliably measure frozen precipitation. We agree that location of this project plays a part in the quality of networks.

In developing statistics for each gauge location, we are weighing stations based on the number of data years, which means we are assigning more weights to the most reliable stations. Stations

with longer recording periods usually come from NCEI networks, such as COOP stations (GHCN-Daily) and long record hourly stations at airports (Local Climatological Data). Since most CoCoRaHS gauges don't have 30 years of data, they could not be used on their own unless merged with a nearby station. In the merging procedure, we typically prioritize COOP data over CoCoRaHS and in that sense we implicitly weight COOP 8-inch standard gauges more than other networks. It is important to note that many CoCoRaHS gauges are transitioning to COOP IDs in recent years, though they retain the 4-inch plastic rain gauge. For example, COOP ID 48-2399 with a period of record from 1951 to present used a Standard Rain Gauge (SRG) from 1951 to the end of 2015, and a 4-inch plastic rain gauge until the present (<https://www.ncei.noaa.gov/access/homr/#ncdcstnid=20023063&tab=PHR>). This is the equivalent of merging a COOP gauge with a CoCoRaHS gauge in recent years, due to data availability / observer changes.

- 4.6** Page 2, Data. There are no stations listed with n-minute precipitation data. On page 10, Part C, first paragraph, precipitation estimates will be published at durations as short as 5-minutes. Other volumes of NOAA Atlas 14 have had some stations with n-minute precipitation data and precipitation-frequency values for short durations such as 5-minute and 10-minutes have been based on analyses of these data. Is there a list or map showing where these stations are?

N-minute data availability was limited to 63 Automated Surface Observing System (ASOS) stations for this project. For the peer review analysis, we provide a subset of durations (1-hour, 6-hours, 24-hours, and 10-days) only, and as a result, N-minute stations were not explicitly identified. In the development of the final estimates, the N-minute station data were used to calculate scaling factors applied to 15-minute estimates to derive 5- and 10-minute precipitation frequency estimates. All N-minute stations used for the final publication are listed in the Appendix A.5 (Table A.1.5).

- 4.7** Are the maps of 2-year and 100-year ARI based on AMS (annual maximum series) or PDS (partial duration series)?

The maps shown are based on the frequency analyses carried out on annual maximum series (AMS). In the final published estimates, both PDS and AMS estimates are available.

PDS-based precipitation frequency estimates were calculated indirectly from the Langbein's formula that transforms a PDS-based average recurrence interval (ARI) to an annual exceedance probability (AEP). PDS-based 2-year estimates are approximately equal to the 2.54-year AMS-based estimates. Please see Section 4.1 for more details.

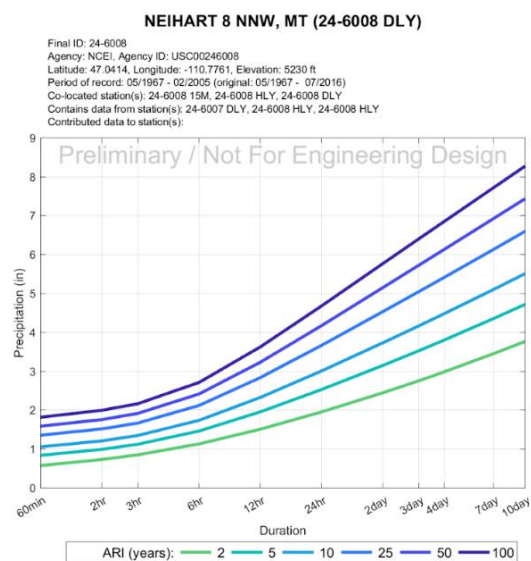
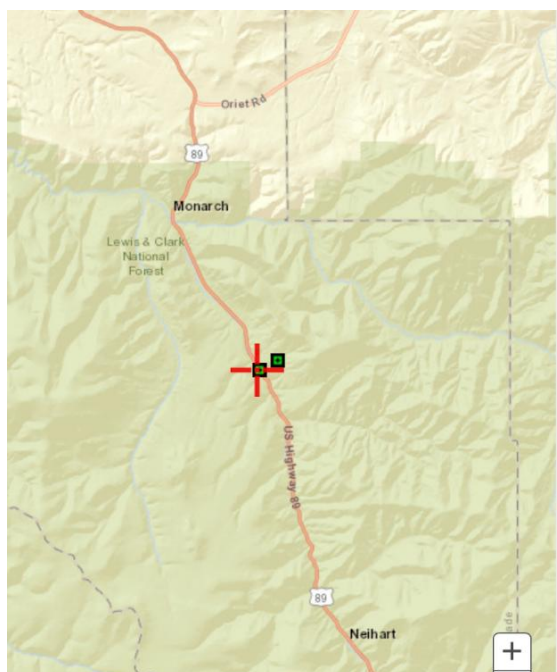
- 4.8** Thanks for sending the review form. I wonder if there is any particular standard for the gage type used in the study. I am guessing given the nature of data available, both tipping bucket and weighing gages could have been included? Wind shields? Given all the studies you have done, I am sure you have given some thought to this, although any type of long term gage is certainly valuable. Still If there is some information on gage type I would take a look at it if it is available.

As with all NOAA Atlas 14 Volumes, the primary source of data is the NOAA's National Centers for Environmental Information (NCEI). The NCEI is the most reliable data source network in the United States. The NCEI's precipitation data alone may not be sufficient to support the objectives of NOAA Atlas 14. Since the NOAA Atlas 14 estimates are based on the statistical analysis of the historical record of the observed precipitation data, denser spatial coverage may be needed to compute the robust and reliable precipitation frequency estimates.

The NCEI maintains several daily, hourly and sub-hourly networks and these networks contain gauges, including standard 8-inch non-recording gauges and various types of automated recording gauges. Recording gauges are typically unshielded Fischer and Porter (FP), but tipping-bucket gauges (TB) and universal weighing gauges (WG) are also used. The bulk of our analysis is made up of COOP unshielded gauges as they have the longest record of daily precipitation with record lengths over 120 years in some cases. Some of the automated gauge sub-hourly networks, such as the Automated Surface Observing System (ASOS) gauges are unshielded except for at some airports where there can be shielding. Additional automated gauge networks from NCEI used in Volume 12 that contain shielded gauges are SNOTEL, and U.S. Climate Reference Network (USCRN). Gauge type information for NCEI gauges can be found per-station in the “Element-Level (PHR) Data” tab in the [Historical Observing Metadata Repository \(HOMR\)](#), or in bulk by downloading the Publication History Report (PHR) [here](#). Reference: https://journals.ametsoc.org/view/journals/atot/16/5/1520-0426_1999_016_0602_iorasn_2_0_co_2.xml

- 4.9** As far as the peer review process it would be nice to have a better, easier way to compare things, such as observed data and estimates. Tools such as the ability to point and click the interpolated maps such that IDF curves would be displayed, even for PRISM interpolated areas. It would also be advantageous to be able to overlay two or more grids and turn one on and off or have a slider to compare spatial patterns more effectively at different durations and/or frequencies.

As an example, with this interface I got confused between these two stations (below) that are apparently merged. It would be nice to be able to tell easier which stations were merged on the map. Maybe use connecting lines or color coding to show merges? I know there is a spreadsheet list of station data and merges but it is challenging to match those to stations on a map.



Thanks for your ideas and suggestions. We will consider this for future projects.

4.10. We look forward to having a modernized, digital precipitation Atlas in effect for our region!

Thank you.

Appendix A.5. Temporal distributions of heavy precipitation

1. Introduction

Temporal distributions of precipitation amounts exceeding precipitation frequency estimates for the 2-year recurrence interval are provided for 6-, 12-, 24-, and 96-hour durations. The temporal distributions are expressed in probability terms as cumulative percentages of precipitation totals at various time steps. To provide detailed information on the varying temporal distributions, separate temporal distributions were also derived for four precipitation cases defined by the duration quartile in which the greatest percentage of the total precipitation occurred.

Stations were grouped into two climate regions, shown in Figure 4.1.3, and separate temporal distributions were derived for each climate region. Regions were delineated based on the climatology of extreme precipitation and the seasonality analysis of annual maxima from stations through the project area.

2. Methodology

The methodology used to produce the temporal distributions is like the one developed by Huff (1967) except in the definition of precipitation cases. In accordance with the way a precipitation case (“event”) was defined for the precipitation frequency analysis, a precipitation case for the temporal distribution analysis was computed as the total accumulation over a specific duration (6-, 12-, 24-, or 96-hours) and may contain parts of one or more storms. Because of that, temporal distribution curves presented here may be different from corresponding temporal distribution curves obtained from the analysis of single storms. Also, precipitation cases for this project always start with precipitation but do not necessarily end with precipitation, resulting in potentially more front-loaded cases when compared with distributions derived from the single storm approach. Cases were selected from all events of a given duration that exceeded the 2-year average recurrence interval at each station.

For each precipitation case, cumulative precipitation amounts were converted into percentages of the total precipitation amount at one-hour time increments. All cases for a specific duration were then combined and probabilities of occurrence of precipitation totals were computed at each hour. The temporal distribution curves for nine deciles (10% to 90%) were smoothed using a linear programming method (Bonta and Rao, 1988) and plotted in the same graph.

The cases were further divided into four categories by the quartile in which the greatest percentage of the total precipitation occurred. Table A.5.1 shows the total number of precipitation cases and number of cases in each quartile for each region and duration. Unlike the cases of 12-, 24-, and 96-hour durations in which the number of data points can be equally divided by four, the cases of 6-hour duration contain only six data points and they cannot be evenly distributed into four quartiles. Therefore, in this analysis, for the 6-hour duration, the first quartile contains precipitation cases where the most precipitation occurred in the first hour, the second quartile contains precipitation cases where the most precipitation occurred in the second and third hours, the third quartile contains precipitation cases where the most precipitation occurred in the fourth hour, and the fourth quartile contains precipitation cases where the most precipitation occurred in the fifth and sixth hours. This uneven distribution affects the number of cases contained in each quartile for the 6-hour duration.

From the [PFDS page](#), regional temporal distribution data are available in a tabular form for a selected location under the “Supplementary information” tab or through the [Temporals](#) page. For 6-, 12- and 24-hour durations, temporal distribution data are provided in 0.5-hour increments and for 96-hour duration in hourly increments.

Table A.5.1. Total number of precipitation cases and number (and percent) of cases in each quartile for selected durations for Northern U.S. Rockies (1) and Northern Great Plains (2) regions.

Duration	Region	All	First quartile	Second quartile	Third quartile	Fourth quartile
6-hour	1	7,517	1,796 (24%)	1,966 (26%)	2,299 (31%)	1,456 (19%)
	2	10,568	2,226 (21%)	2,700 (26%)	3,132 (29%)	2,510 (24%)
12-hour	1	9,226	2,053 (22%)	2,531 (28%)	2,551 (27%)	2,091 (23%)
	2	9,568	2,122 (22%)	2,238 (24%)	2,500 (26%)	2,708 (28%)
24-hour	1	9,507	1,867 (20%)	2,477 (26%)	2,562 (27%)	2,601 (27%)
	2	8,274	1,839 (22%)	1,830 (22%)	2,059 (25%)	2,546 (31%)
96-hour	1	11,446	2,371 (21%)	2,352 (20%)	2,503 (22%)	4,220 (37%)
	2	7,253	1,215 (17%)	1,293 (18%)	1,650 (22%)	3,095 (43%)

3. Interpretation

Figures A.5.1 through A.5.4 show, as an example, temporal distribution curves for the first-, second-, third-, and fourth-quartile cases in the Northern U.S. Rockies region for 6-hour, 12-hour, 24-hour and 96-hour durations, respectively. First-quartile plots show temporal distribution curves for cases where the greatest percentage of the total precipitation fell during the first quarter of the duration (e.g., the first 3 hours of a 12-hour duration). The second, third, and fourth quartile plots are similarly for cases where the most precipitation fell in the second, third, or fourth quarter of the duration. Figure A.5.5 shows the temporal distribution curves of all precipitation cases in the Northern U.S. Rockies region for the 6-, 12-, 24-, and 96-hour durations. For these plots, time steps were converted into percentages of total durations for easier comparison.

The temporal distribution curves represent averages of many cases and illustrate the temporal distribution patterns with 10% to 90% occurrence probabilities in 10% increments. For example, the 10% curve in any figure indicates that 10% of the corresponding precipitation cases had distributions that fell above and to the left of the curve. Similarly, 10% of the cases had temporal distribution falling to the right and below the 90% curve. The 50% curve represents the median temporal distribution.

Temporal distribution curves are provided in order to show the range of possibilities. Care should be taken in the interpretation and use of temporal distribution curves. For example, the use of different temporal distribution data in hydrologic models may result in very different peak flow estimates. Therefore, they should be selected and used in a way to reflect users' objectives.

The following is an example of how to interpret the results using the figure in the upper left panel of Figure A.5.1 for 6-hour first-quartile cases in the Northern U.S. Rockies region (region 1):

- In 10% of the first-quartile cases, 50% of the total precipitation fell in about 1.25 hours and 90% of the total precipitation fell in 4.25 hours.
- A median case of this type will drop half of the precipitation (50% on the y-axis) in approximately 2.5 hours.
- In 90% of the cases, 50% of the total precipitation fell by three hours and 90% of precipitation fell in approximately 5.6 hours.

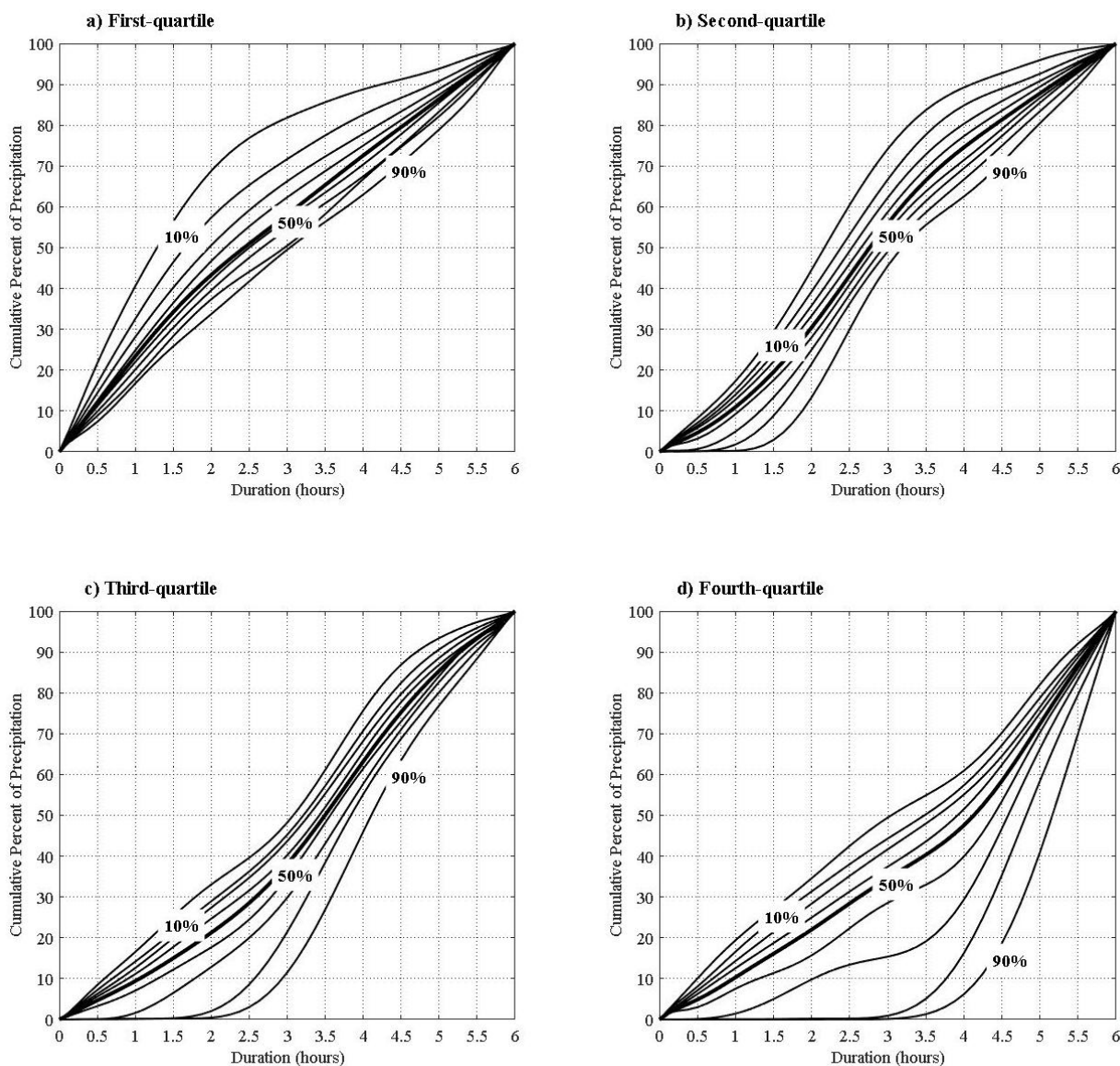


Figure A.5.1. 6-hour temporal distribution curves for the Northern U.S. Rockies region (region 1):
a) first-quartile, b) second-quartile, c) third-quartile, and d) fourth-quartile cases.

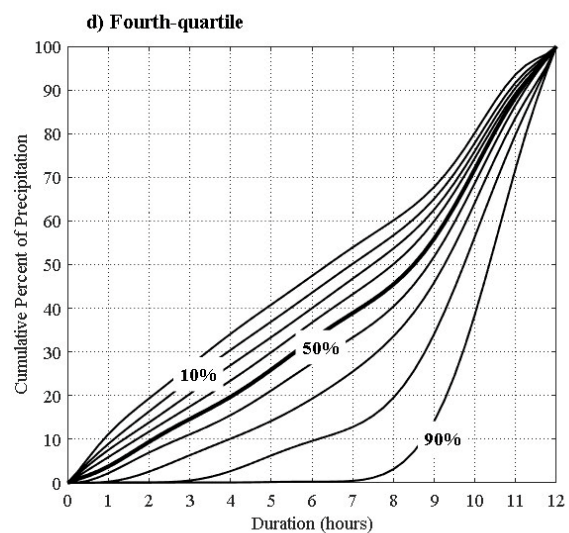
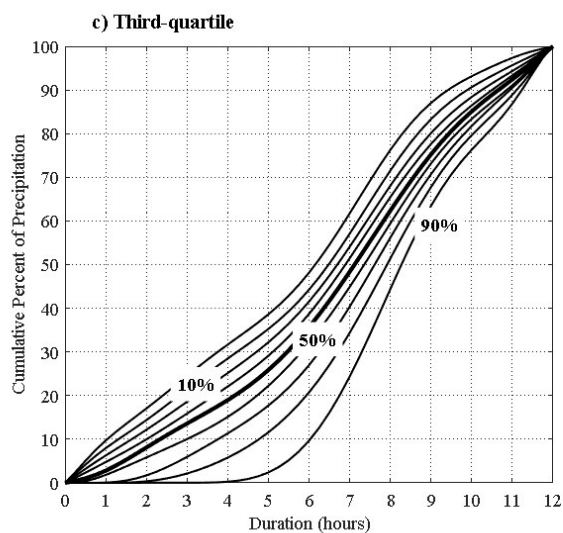
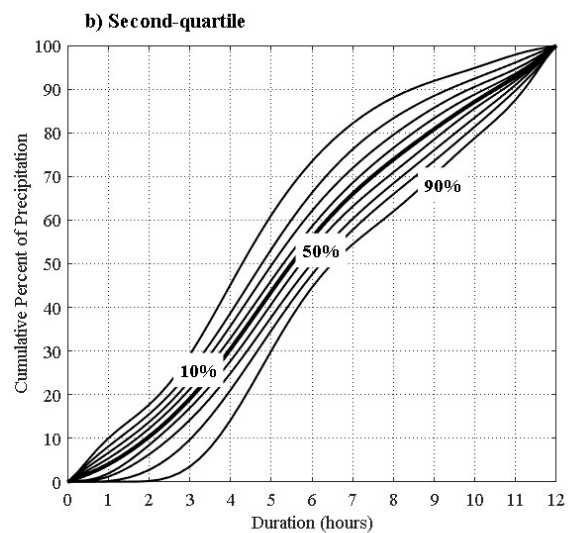
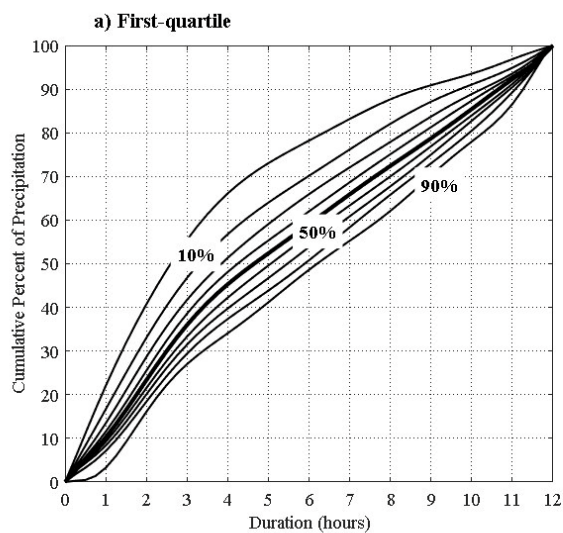


Figure A.5.2. 12-hour temporal distribution curves for the Northern U.S. Rockies region (region 1): a) first-quartile, b) second-quartile, c) third-quartile, and d) fourth-quartile cases.

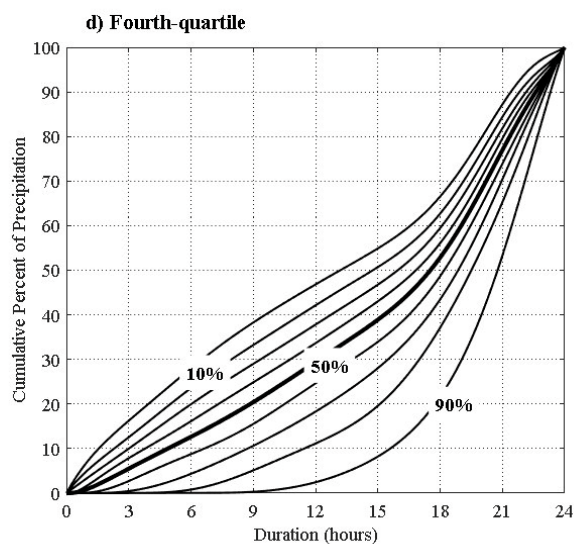
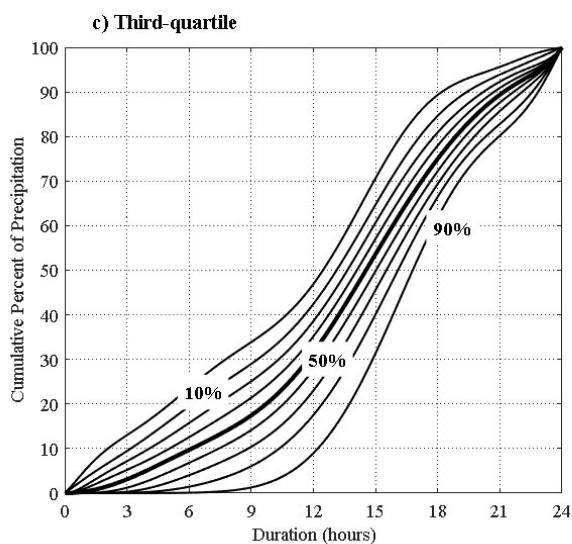
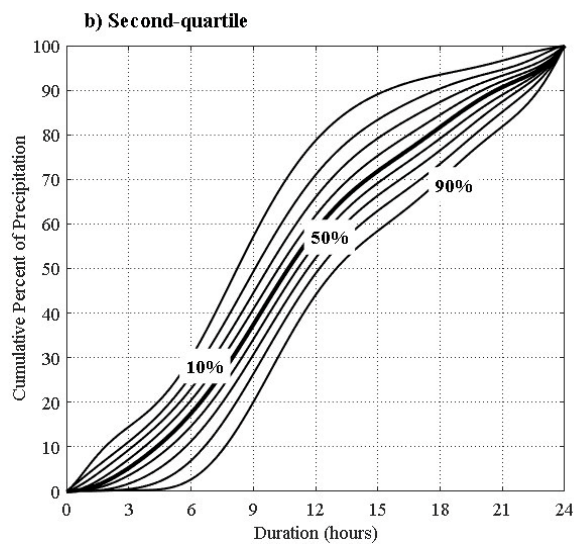
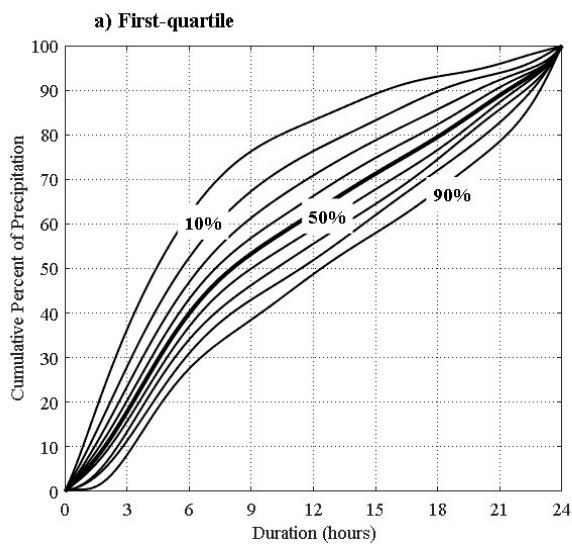


Figure A.5.3. 24-hour temporal distribution curves for the Northern U.S. Rockies region (region 1):
a) first-quartile, b) second-quartile, c) third-quartile, and d) fourth-quartile cases

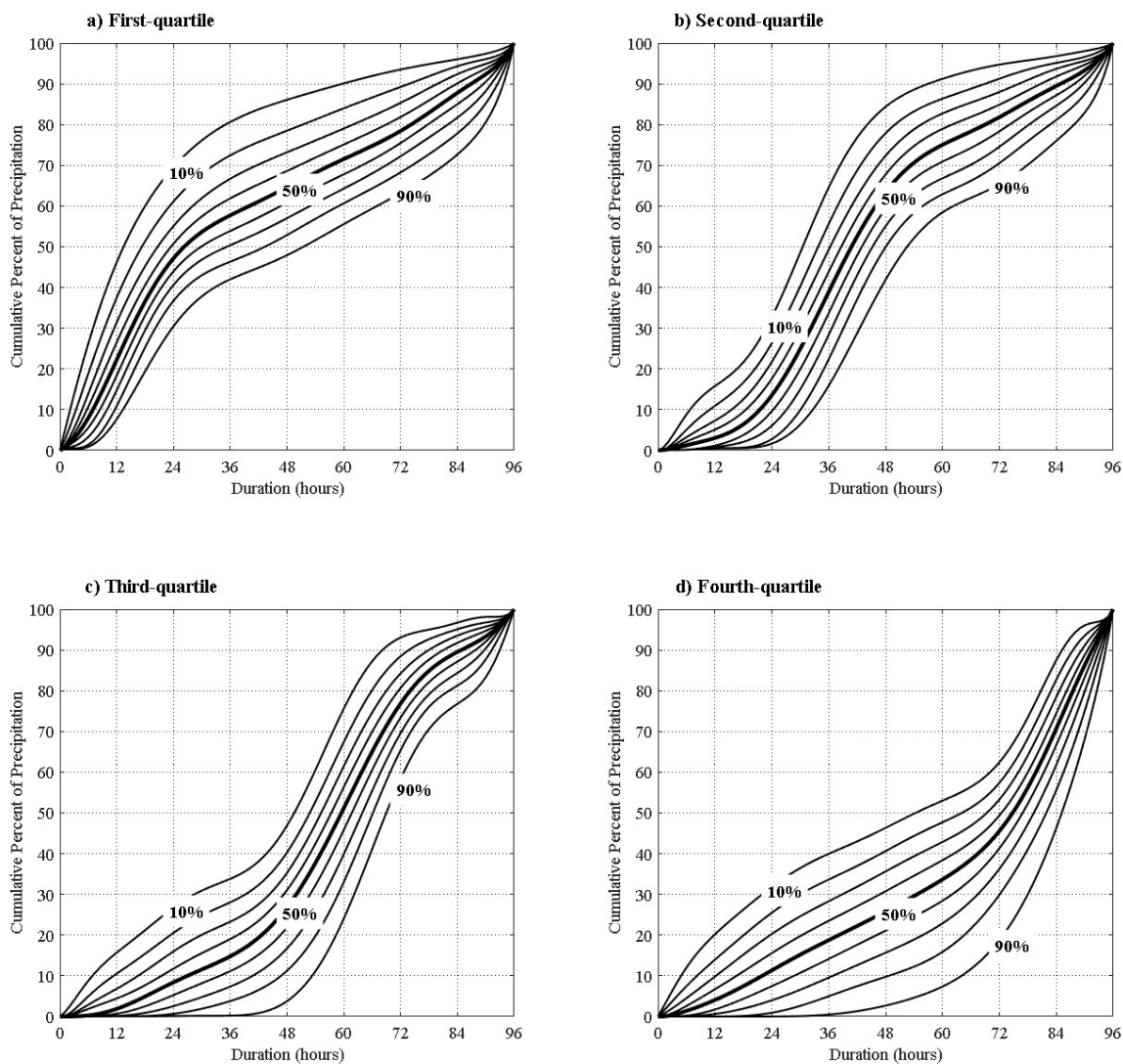


Figure A.5.4. 96-hour temporal distribution curves for the Northern U.S. Rockies region (region 1):
a) first-quartile b) second-quartile, c) third-quartile, and d) fourth-quartile cases.

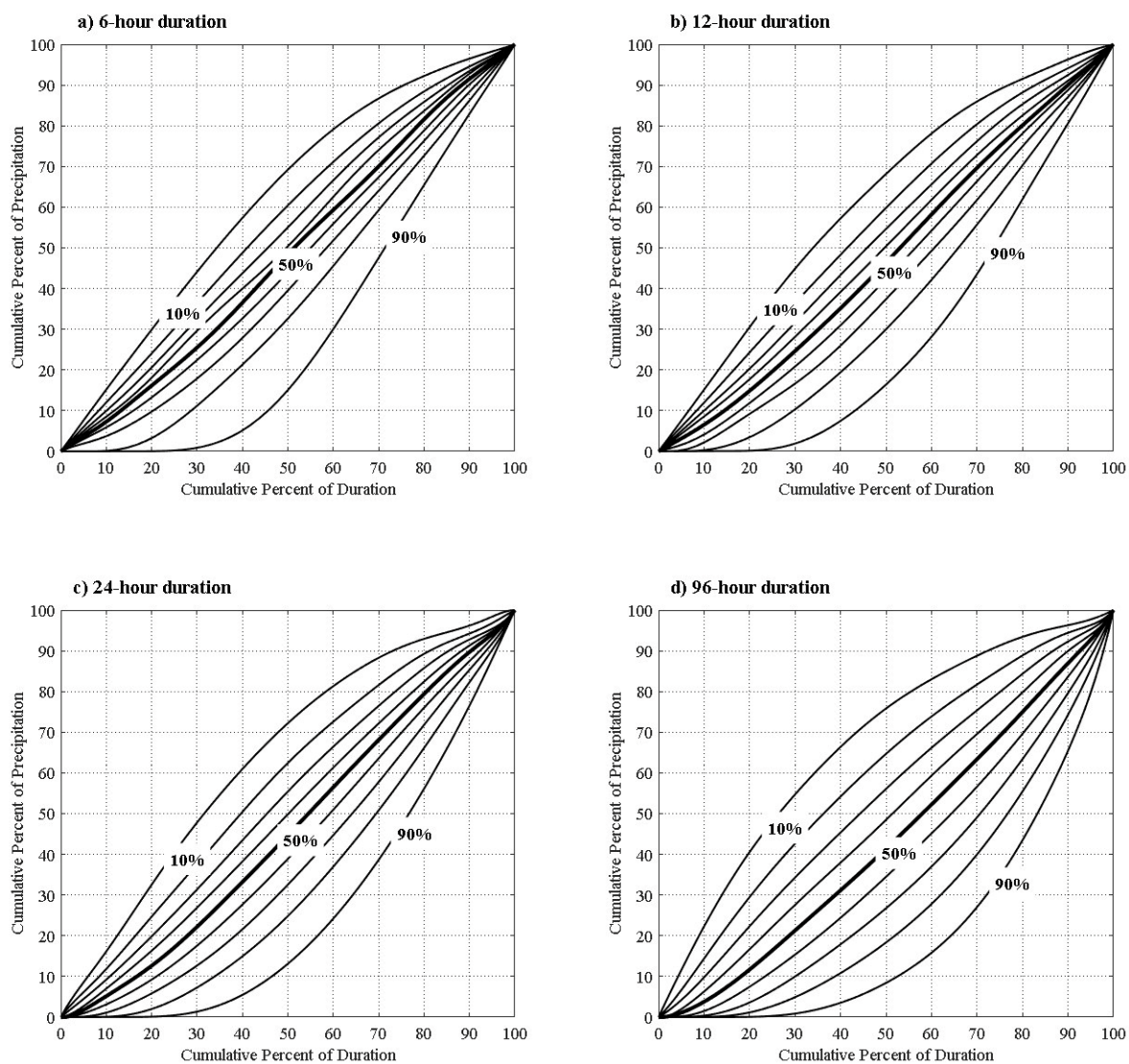


Figure A.5.5. Temporal distribution curves of all precipitation cases for the Northern U.S. Rockies region (region 1) for: a) 6-hour, b) 12-hour, c) 24-hour, and d) 96-hour durations.

Appendix A.6. Seasonality

1. Introduction

To portray the seasonality of extreme precipitation throughout the project area, annual maxima that exceeded precipitation frequency estimates (quantiles) with selected annual exceedance probabilities (AEPs) for chosen durations were examined for the two climate regions described in Section 4.1. Graphs showing the monthly variation of the exceedances for a region are provided for each location in the project area via the [Precipitation Frequency Data Server \(PFDS\)](#). For a selected location, seasonal exceedance graphs can be viewed by selecting “V. Seasonality analysis” from the “Supplementary information” tab on the output page.

2. Method

Separate seasonal exceedance graphs were created for each delineated region shown in Figure 4.1.3. They show the percentage of annual maxima for a given duration from all stations in a region that exceeded corresponding precipitation frequency estimates at selected AEP levels in each month. Results are provided for 60-minute, 24-hour, 2-day, and 10-day durations and for AEPs of 1/2, 1/5, 1/10, 1/25, 1/50, and 1/100.

To prepare the graphs, first the number of annual maxima exceeding the precipitation frequency estimate at a station for a given AEP was tabulated for each duration. Those numbers were then combined for all stations in the region, sorted by month, normalized by the total number of data years in the region, and finally plotted via the PFDS.

3. Results

The exceedance graphs for a selected location (Figures A.6.1 and A.6.2) indicate percent of annual maxima exceeding the quantiles with selected AEPs for various durations. The percentages are based on regional statistics. On average, 1% of annual maxima for a given duration in a year (i.e., the sum of percentages of all twelve months) are expected to exceed the 1/100 AEP quantile, 4% is expected to exceed the 1/25 AEP quantile, etc.

Note that seasonality graphs are not intended to be used to derive seasonal precipitation frequency estimates.

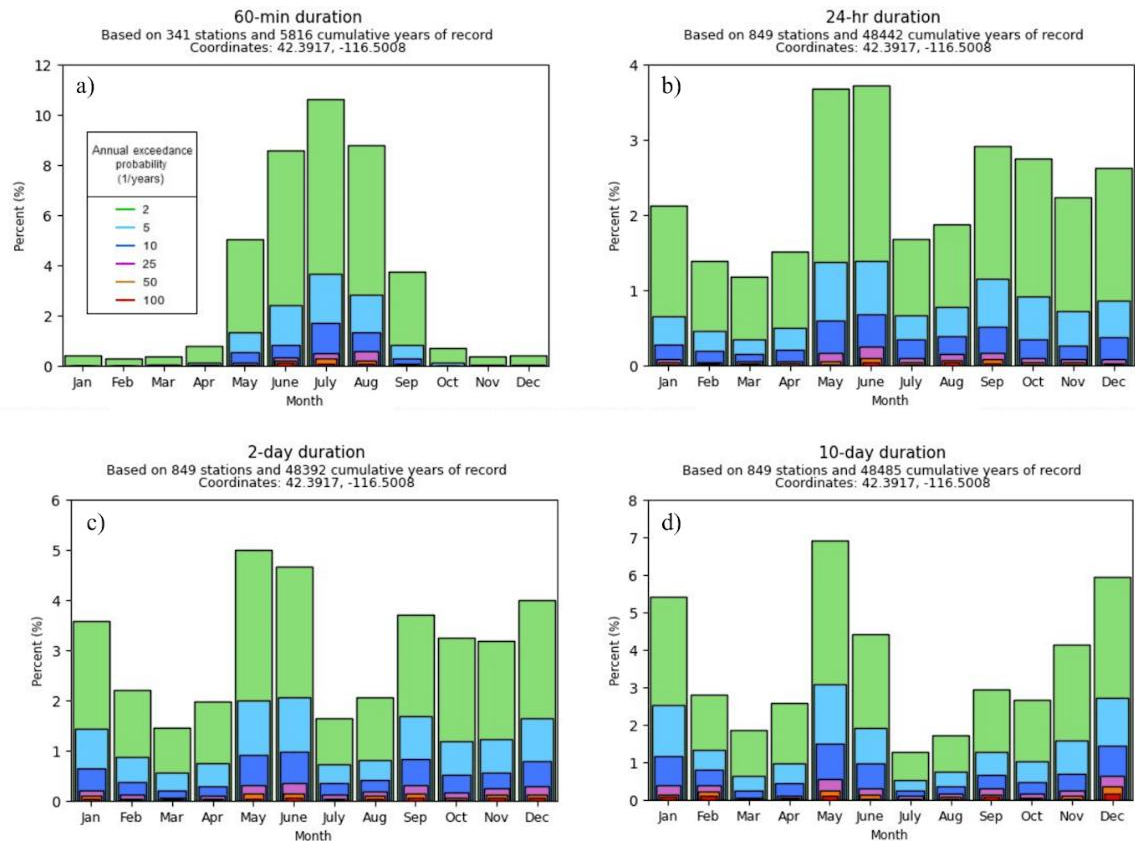


Figure A.6.1. Seasonal exceedance graphs for a location in the Northern U.S. Rockies region (region 1) for the: a) 60-minute, b) 24-hour, c) 2-day, and d) 10-day durations.

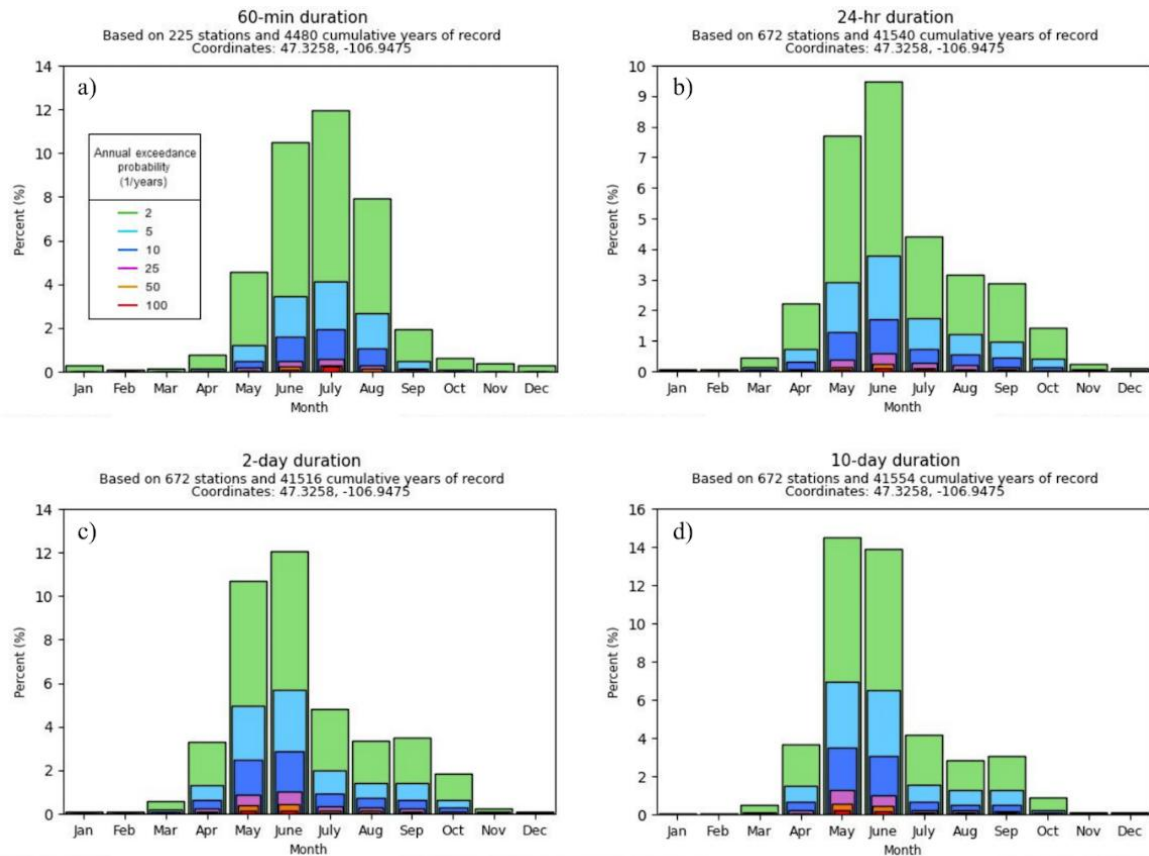


Figure A.6.2. Seasonal exceedance graphs for a location in the Northern Great Plains region (region 2) for the: a) 60-minute, b) 24-hour, c) 2-day, and d) 10-day durations.

Acknowledgments

Funding for this project was provided by the Idaho Department of Transportation, the Montana Department of Transportation, and the Federal Highway Administration. We specifically want to thank Megan Frye and Kornel Kerenyi for coordinating the activities of the Federal Highway Administration's Transportation Pooled Fund Program.

We acknowledge many colleagues who provided data for this Volume beyond what was available from NOAA NCEI's archive, including (agencies by alphabetical order): Tammy Lightle, Ada County Highway District; Matt Carlson, Idaho Department of Transportation; Crystal Stiles and Gannon Rush, High Plains Regional Climate Center; Jesse Nunn, Meteorological Service of Canada; Dr. Kevin Hyde, Montana Climate Office; Annette Compton and David Hedstrom, Montana Department of Transportation; Jonathan Weaver, Midwestern Regional Climate Center and the Indiana State Climate Office; Jason Rich, Air Resources Laboratory, NOAA; Elizabeth Wilson, Synoptic Data; Mark Seyfried and Steven Van Vactor, Agricultural Research Service, U.S Department of Agriculture; David Wright and Erinkate Springer, Forest Service, U.S Department of Agriculture; Nick Kimutis and Greg McCurdy, Western Regional Climate Center.

The following colleagues provided feedback during the peer review (in alphabetical order): Alyssa H. Dietrich, Dewberry; Royce L. Fontenot, NWS National Water Center; Patrick C. Garner, Patrick C. Garner Co., Inc.; David Goldman; Mark Klein, NWS Weather Prediction Center; Herbert McDowell, Idaho Department of Transportation; James Noel, NWS Ohio River Forecast Center; Paul Nutter, NWS Great Falls Weather Forecast Office; David Riley, NWS National Water Center; Mathini Sreetharan, Dewberry; David Sutley, Dewberry; Hong Wang, Natural Resources Conservation Service, USDA; Lan Zhang, Dewberry.

Geoff Bonnin and Dr. Sanja Perica were instrumental in developing and updating the methodology for NOAA Atlas 14 Volumes. Mark Glaudemans from NOAA for his contributions in supporting development of the most recent NOAA Atlas 14 volumes. Philip Kemp, Matthew Schmidt, and Ryan Isler from Orion Network Solutions Inc./Systems Integration & Development, Inc. developed the web pages for the peer review and final PFDS web pages for publication. Maureen O'Leary and Michael Musher, NOAA/NWS Communications Office were instrumental in coordinating communications with various media outlets, and Ken Pavelle, Natasha Pickett and Sam Contorno from the OWP provided wide-ranging support.

We would like to thank them all for their help and apologize in advance to those who were unintentionally omitted.

Acronyms, abbreviations

(For a list of abbreviations used to identify data sources, please see Table 4.2.1.)

AEP	Annual Exceedance Probability
AM	Annual Maximum
AMS	Annual Maximum Series
ARI	Average Recurrence Interval
ASCII	American Standard Code for Information Interchange
ASOS	Automated Surface Observing System
CDMP	Climate Database Modernization Program
COOP	NWS Cooperative Observer Program
CV	Coefficient of Variation
DEM	Digital Elevation Model
GEV	Generalized Extreme Value
GHCN	Global Historical Climatology Network
HDSC	Hydrometeorological Design Studies Center
INW	Interior Northwest
MAM	Mean Annual Maximum
MAP	Mean Annual Precipitation
NA14	NOAA Atlas 14
NA2	NOAA Atlas 2
NCEI	National Centers for Environmental Information
NOAA	National Oceanic and Atmospheric Administration
NWS	National Weather Service
OWP	Office of Water Prediction
PCHIP	Piecewise Cubic Hermite Interpolating Polynomial
PDS	Partial Duration Series
PFDS	Precipitation Frequency Data Server
PMP	Probable Maximum Precipitation
POR	Period of Record
PRISM	Parameter-Elevation Regressions on Independent Slopes Model
SID	Station Identification Number
TP	Technical Publication
USDA	U.S. Department of Agriculture
USGS	U.S. Geological Survey

Glossary

(All definitions are given relative to precipitation frequency analyses in NOAA Atlas 14 Volume 12.)

ANNUAL EXCEEDANCE PROBABILITY (AEP) – The probability associated with exceeding a given amount in any given year at least once; the inverse of AEP provides a measure of the average time between years (and not events) in which a particular value is exceeded at least once. The term is associated with analysis of annual maximum series (see also AVERAGE RECURRENCE INTERVAL).

ANNUAL MAXIMUM (AM) – Largest precipitation amount in a continuous 12-month period (calendar or water year) for a specified duration at a given station.

ANNUAL MAXIMUM SERIES (AMS) – Time series of the largest precipitation amounts in a continuous 12-month period (calendar or water year) for a specified duration at a given station.

ASCII GRID – Grid format with a 6-line header, which provides location and size of the grid and precedes the actual grid data. The grid is written as a series of rows, which contain one ASCII integer or floating point value per column in the grid. The first element of the grid corresponds to the upper-left corner of the grid.

AVERAGE RECURRENCE INTERVAL (ARI; a.k.a. RETURN PERIOD, AVERAGE RETURN PERIOD) – Average time between *cases of a particular precipitation magnitude* for a specified duration and at a given location; the term is associated with the analysis of partial duration series. However, ARI is frequently calculated as the inverse of AEP for the annual maximum series; in this case it represents the average period between years in which a given precipitation magnitude is exceeded at least once.

CONSTRAINED OBSERVATION – A precipitation measurement or observation bound by clock hours and occurring in regular intervals. This observation requires conversion to an unconstrained value (see UNCONSTRAINED OBSERVATION) because maximum 60-minute or 24-hour amounts seldom fall within a single hourly or daily observation period.

DATA YEARS – See RECORD LENGTH.

DEPTH-DURATION-FREQUENCY (DDF) CURVE – Graphical depiction of precipitation frequency estimates in terms of depth, duration, and frequency (ARI or AEP).

DISTRIBUTION FUNCTION (CUMULATIVE DISTRIBUTION FUNCTION) – Mathematical description that completely describes frequency distribution of a random variable, here precipitation. Distribution functions commonly used to describe precipitation data include 3-parameter distributions such as Generalized Extreme Value (GEV), Generalized Normal, Generalized Pareto, Generalized Logistic, and Pearson type III, the 4-parameter Kappa distribution, and the 5-parameter Wakeby distribution.

FREQUENCY – General term for specifying the average recurrence interval or annual exceedance probability associated with specific precipitation magnitude for a given duration.

FREQUENCY ANALYSIS – Process of derivation of a mathematical model that represents the relationship between precipitation magnitudes and their frequencies.

FREQUENCY ESTIMATE – Precipitation magnitude associated with specific average recurrence interval or annual exceedance probability for a given duration.

INTENSITY-DURATION-FREQUENCY (IDF) CURVE – Graphical depiction of precipitation frequency estimates in terms of intensity, duration and frequency.

INTERNAL CONSISTENCY – Term used to describe the required behavior of the precipitation frequency estimates from one duration to the next or from one frequency to the next. For instance, it is required that the 100-year 3-hour precipitation frequency estimates be greater than (or at least equal to) corresponding 100-year 2-hour estimates.

L-MOMENTS – L-moments are summary statistics for probability distributions and data samples. They are analogous to ordinary moments, providing measures of location, dispersion, skewness, kurtosis, and other aspects of the shape of probability distributions or data samples, but are computed from linear combinations of the ordered data values (hence the prefix L).

MEAN ANNUAL PRECIPITATION (MAP) – The average precipitation for a year (usually calendar) based on the whole period of record or for a selected period (usually 30 year period such as 1971-2000).

PARTIAL DURATION SERIES (PDS) – Time series that includes all precipitation amounts for a specified duration at a given station above a predefined threshold regardless of year; it can include more than one event in any particular year.

PRECIPITATION FREQUENCY DATA SERVER (PFDS) – The on-line portal for all NOAA Atlas 14 deliverables, documentation, and information (<https://hdsc.nws.noaa.gov/hdsc/pfds/>).

PARAMETER-ELEVATION REGRESSIONS ON INDEPENDENT SLOPES MODEL (PRISM) – Hybrid statistical-geographic approach to mapping climate data developed by Oregon State University's PRISM Climate Group.

QUANTILE – Generic term to indicate the precipitation frequency estimate associated with either ARI or AEP.

RECORD LENGTH – Number of years in which enough precipitation data existed to extract meaningful annual maxima in a station's period of record (or data years).

UNCONSTRAINED OBSERVATION – A precipitation measurement or observation for a defined duration. However, the observation is not made at a specific repeating time, rather the duration is a moveable window through time.

WATER YEAR – Any 12-month period, usually selected to begin and end during a relatively dry season. In Volume 12, it is defined as October 1 to September 30.

References

- Arkell, E. R., F Richards, 1986. Short Duration Rainfall Relations for the Western United States, Preprint Volume of the Conference on Climate and Water Management, American Meteorological Society. https://www.weather.gov/media/owp/oh/hdsc/docs/Arkell_Richards.pdf
- Baxter, M. A., C. E. Graves, and J. T. Moore, 2005: A Climatology of Snow-to-Liquid Ratio for the Contiguous United States. *Wea. Forecasting*, 20, 729–744, <https://doi.org/10.1175/WAF856.1>.
- Burn, D. H. (1990). “Evaluation of Regional Flood Frequency Analysis with a Region of Influence Approach.” *Water Resources Research* 26(10).
- Daly, C., W. P. Gibson, G. H. Taylor, G. L. Johnson, and P. Pasteris (2002). “A Knowledge Based Approach to the Statistical Mapping of Climate.” *Climate Research* 23.
- Dightman, R. A., 1950. Montana Marias basin rainstorm, June 16-17, 1948. *Monthly Weather Review* 78:6-12.
- England, J. F., T. A. Cohn, B. A. Faber, J. R. Stedinger, W. O. Thomas, A. G. Veilleux, J. E. Kiang, and R. R. Mason (2018). *Guidelines for Determining Flood Flow Frequency - Bulletin 17C*. U.S. Geological Survey, Washington D.C. Retrieved from <https://pubs.usgs.gov/tm/04/b05/tm4b5.pdf>
- Fritsch, F. N. and R. E. Carlson (1980). “Monotone Piecewise Cubic Interpolation.” *SIAM Journal on Numerical Analysis* 17.
- Hirsch, R. M., R. B. Alexander, and R. A. Smith (1991). “Selection of Methods for the Detection and Estimation of Trends in Water Quality.” *Water Resources Research* 27.
- Hosking, J. R., and J. R. Wallis (1997). *Regional Frequency Analysis: An Approach Based on L-Moments*. Cambridge: Cambridge University Press.
- Huff, F. A. (1967). “Time Distribution of Rainfall in Heavy Storms.” *Water Resources Research* 3(4).
- Interagency Advisory Committee on Water Data (1982). *Guidelines for Determining Flood Flow Frequency Bulletin - 17B*. U.S. Geological Survey, Reston, VA. Retrieved from https://water.usgs.gov/osw/bulletin17b/dl_flow.pdf
- Jennings, A. H. (1963). *Technical Paper No. 2. Maximum Recorded United States Point Rainfall For 5 Minutes to 24 Hours at 296 First Order Stations*. U.S. Weather Bureau, Washington D.C. Retrieved from http://www.nws.noaa.gov/oh/hdsc/Technical_papers/TP2.pdf
- Langbein, W. B., and others (1947). *USGS Water Supply Paper 915. Major Winter and Nonwinter Floods in Selected Basins in New York and Pennsylvania*. U.S. Geological Survey, Washington D.C. Retrieved from <https://pubs.usgs.gov/wsp/0915/report.pdf>
- Langbein, W. B. (1949). “Annual Floods and the Partial-Duration Flood Series.” *Transactions American Geophysical Union* 30.
- Laurenson, E. M. (1987). “Back to Basics on Flood Frequency Analysis.” *Civil Engineers Transactions*, CE29.

Levene, H. (1960). In I. Olkin et al. eds., *Contributions to Probability and Statistics: Essays in Honor of Harold Hotelling*. Stanford University Press.

Maidment, D. R. (1993). *Handbook of Hydrology*. McGraw-Hill Publishing.

Miller, J. F. (1964). *Technical Paper No. 49, Two- to Ten-Day Precipitation for Return Periods of 2 to 100 Years in the Contiguous United States*. U.S. Weather Bureau, Washington D.C. Retrieved from https://www.weather.gov/media/owp/hdsc_documents/TechnicalPaper_No49.pdf

Miller, J. F., Frederick, R. H., and Tracey, R. J. (1973) *Precipitation-Frequency Atlas of the Western United States*. NOAA Atlas 2, Volume 1, Volume 2, and 5 (Montana, Wyoming, and Idaho) National Weather Service, Silver Spring, Maryland.

https://hdsc.nws.noaa.gov/pub/hdsc/data/papers/Atlas2_Volume1.pdf

https://hdsc.nws.noaa.gov/pub/hdsc/data/papers/Atlas2_Volume2.pdf

https://hdsc.nws.noaa.gov/pub/hdsc/data/papers/Atlas2_Volume5.pdf

Myers, V. A., and Zehr, R. M. (1980) *A Methodology for Point-to-Area Rainfall Frequency Ratios*. NOAA Technical Report NWS 24, National Weather Service, Silver Spring, Maryland. Retrieved from <https://www.weather.gov/media/owp/oh/hdsc/docs/TR24.pdf>

PRISM Climate Group, Oregon State University, <https://prism.oregonstate.edu>, data created 1 June 2024, accessed 1 June 2024.

Wells, J. V. B. (1962). *Water Supply Paper 1455-B, Summary of Floods in the United States During 1955*. U.S. Geological Survey, Washington D.C. Retrieved from <https://pubs.usgs.gov/wsp/1455b/report.pdf>

NOAA Atlas 14 documents (https://www.weather.gov/owp/hdsc_currentpf)

Trypaluk C., D. Unruh, M. St. Laurent, A. Jordan, R. S. S. Mantripragada, S. Pavlovic, G. Fall, F. Salas (2024). *NOAA Atlas 14 Volume 12, Precipitation-Frequency Atlas of the United States, Interior Northwest*. NOAA, National Weather Service, Silver Spring, MD.

Perica, S., S. Pavlovic, M. St. Laurent, C. Trypaluk, D. Unruh, O. Wilhite (2018). *NOAA Atlas 14 Volume 11, Precipitation-Frequency Atlas of the United States, Texas*. NOAA, National Weather Service, Silver Spring, MD.

Perica, S., S. Pavlovic, M. St. Laurent, C. Trypaluk, D. Unruh, D. Martin, O. Wilhite (2015, revised 2019). *NOAA Atlas 14 Volume 10, Precipitation-Frequency Atlas of the United States, Northeastern States*. NOAA, National Weather Service, Silver Spring, MD.

Perica, S., D. Martin, S. Pavlovic, I. Roy, M. St. Laurent, C. Trypaluk, D. Unruh, M. Yekta, G. Bonnin (2013). *NOAA Atlas 14 Volume 9, Precipitation-Frequency Atlas of the United States, Southeastern States*. NOAA, National Weather Service, Silver Spring, MD, 2013.

Perica, S., D. Martin, S. Pavlovic, I. Roy, M. St. Laurent, C. Trypaluk, D. Unruh, M. Yekta, G. Bonnin (2013). *NOAA Atlas 14 Volume 8, Precipitation-Frequency Atlas of the United States, Midwestern States*. NOAA, National Weather Service, Silver Spring, MD.

Perica, S., D. Kane, S. Dietz, K. Maitaria, D. Martin, S. Pavlovic, I. Roy, S. Stuefer, A. Tidwell, C. Trypaluk, D. Unruh, M. Yekta, E. Betts, G. Bonnini, S. Heim, L. Hiner, E. Lilly, J. Narayanan, F. Yan, T. Zhao (2012). *NOAA Atlas 14 Volume 7, Precipitation-Frequency Atlas of the United States, Alaska*. NOAA, National Weather Service, Silver Spring, MD.

Perica, S., S. Dietz, S. Heim, L. Hiner, K. Maitaria, D. Martin, S. Pavlovic, I. Roy, C. Trypaluk, D. Unruh, F. Yan, M. Yekta, T. Zhao, G. Bonnini, D. Brewer, L.-C. Chen, T. Parzybok, J. Yarchoan (2011, revised 2014). *NOAA Atlas 14 Volume 6, Precipitation-Frequency Atlas of the United States, California*. NOAA, National Weather Service, Silver Spring, MD.

Perica, S., B. Lin, D. Martin, F. Yan, D. Brewer, C. Trypaluk, M. Yekta, L. Hiner, S. Heim, S. Dietz, T. Parzybok, L.-C. Chen, K. Maitaria, R. Chen, I. Roy, D. Unruh, T. Zhao, J. Yarchoan, G. Bonnini (2009, revised 2011). *NOAA Atlas 14 Volume 5, Precipitation-Frequency Atlas of the United States, Selected Pacific Islands*. NOAA, National Weather Service, Silver Spring, MD.

Perica, S., D. Martin, B. Lin, T. Parzybok, D. Riley, M. Yekta, L. Hiner, L.-C. Chen, D. Brewer, F. Yan, K. Maitaria, C. Trypaluk, G. Bonnini (2009, revised 2011). *NOAA Atlas 14 Volume 4, Precipitation-Frequency Atlas of the United States, Hawaiian Islands*. NOAA, National Weather Service, Silver Spring, MD.

Bonnini, G., D. Martin, B. Lin, T. Parzybok, M. Yekta, and D. Riley (2006, revised 2008). *NOAA Atlas 14 Volume 3, Precipitation-Frequency Atlas of the United States, Puerto Rico and the U.S. Virgin Islands*. NOAA, National Weather Service, Silver Spring, MD.

Bonnini, G., D. Martin, B. Lin, T. Parzybok, M. Yekta, and D. Riley (2004, revised 2006). *NOAA Atlas 14 Volume 2, Precipitation-Frequency Atlas of the United States, Delaware, District of Columbia, Illinois, Indiana, Kentucky, Maryland, New Jersey, North Carolina, Ohio, Pennsylvania, South Carolina, Tennessee, Virginia, West Virginia*. NOAA, National Weather Service, Silver Spring, MD.

Bonnini, G., D. Martin, B. Lin, T. Parzybok, M. Yekta, and D. Riley (2004, revised 2011). *NOAA Atlas 14 Volume 1, Precipitation-Frequency Atlas of the United States, Semiarid Southwest*. NOAA, National Weather Service, Silver Spring, MD.