

Ground Snow Loads for the State of Idaho

A Thesis

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Authorization to Submit Thesis

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Abstract

The objective of this study is to update the ground snow loads for the state of Idaho. The previous study (Taheri 1985) used the snow data up to 1983. The stations of the National Resources Conservation Service (NRCS), formerly the Soil Conservation Service (SCS), as well as the National Weather Services (NWS) Coop stations, were analyzed for the entire State of Idaho. Additional data from neighboring states were also analyzed to ensure that the snow load mapping considers stations near the borders of Idaho. The NRCS provides two types of stations: the Snow Courses and the SNOwpack TELelemetry (SNOTEL) stations. Both types of stations provide continuous monitoring of the snow-water equivalent in inches of water for each location. The NWS Coop stations measure snow depth in inches. The Log Pearson Type III (LP3) is an extreme-value distribution that is used to obtain the 50-year mean recurrence interval (MRI) values; it is the same approach that was used in the Idaho 1985 study. The 50-year MRI values were selected for the ground snow loads. For the NRCS stations, the 50-year snow-water equivalent is the snow load. For the NWS Coop stations, the 50-year snow depth is converted to the ground snow load using the Rocky Mountain Conversion Density (RMCD) (Sack 1986). Subsequently, the ground snow load of each station is divided by its elevation in feet to provide the normalized ground snow load (NGSL). The NGSLs were mapped using ArcGIS to provide a statewide contour map. The NGSL was used because it was previously found to be the best method of mapping the information (Rusten 1976). This approach is also used for the States of Washington and Montana. The Inverse Distance Weighted (IDW) method within ArcGIS was found to give the most accurate results.

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Thanks to all of you for your help, guidance and feedback.

Dedication

I would like to dedicate this thesis to my parents, wife and friends. I would like to thank them for all the support, help and patience.

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List of Symbols and Notations

ANSI	American National Standard Institute
Coop	National Weather Service Cooperative Observation Program
DRI	Desert Research Institute
γ_w	Unit weight of Water
h_g	Depth of Snow
h_w	Snow-water Equivalent
IDW	Inverse Distance Weighting
K	exceedance probability coefficients
LP3	Log Pearson Type III
MRI	Mean Recurrence Interval
NGSL	Normalized Ground Snow Load
NOB	Number of Observation
NRCS	National Resources Conservation Service
NWS	National Weather Service
p_g	Ground Snow Load
RMCD	Rocky Mountain Conversion Density
SCS	Soil Conservation Service
SD	Snow Depth
S_g	Specific Gravity of Snow
SNOTEL	SNOWpack TELelemetry
SWE	Snow-water Equivalent

CHAPTER 1: Introduction

1.1 Background

The ground snow load is very important for the design of buildings in an area that experiences significant snow. The American National Standards Institute (ANSI 1982) published a nationwide snow map, which was not applicable for most of the western states. In 1976 a study was conducted at the University of Idaho to produce a snow map to be used by design professionals (Rusten 1976). The report was subsequently updated (Taheri 1985) to incorporate additional years of data since 1976.

Since previous studies have only included the records of data up to 1983 and excluded any station with 10 or fewer years of data, there was a need for a new study to include more years of data. Also, it was necessary to include stations along the border of the neighboring states of Utah, Nevada and Wyoming, which were not included in the previous study. These additional stations help to extend the contour map to improve continuity with neighboring states. Another reason for an updated report was to study the inconsistencies between the snow load of locations that are adjacent to the states of Montana, Utah and Washington such as Coeur d'Alene, Idaho, Moscow, Idaho and others. For example, the snow load in Moscow, Idaho from the 1985 reports is almost 100 percent higher than the value for Pullman, Washington from their map.

This study includes sources of data from the National Weather Services (NWS) and the National Resources Conservation Service (NRCS). The NWS Cooperative Observation Network (Coop) stations are located in airports, major cities and towns, and take daily records of the snow depth. The NRCS maintains the SNOwpack TELemetry (SNOTEL)

and the Snow Course stations. The SNOTEL and Snow Courses are located primarily in mountainous areas. The NRCS stations take monthly measurements of the snow-water equivalent in inches of water. The NWS Coop stations measure daily snow depth. The maximum yearly snow-water equivalent for NRCS stations and the maximum yearly snow depth for NWS stations were compiled. Subsequently the maximum yearly snow record for each station is analyzed using the Log Pearson Type III (LP3) extreme-value statistical distribution to determine the ground snow load having 50-year mean recurrence interval (MRI) value. The ground snow load having a 50-year MRI for each station is divided by the station elevation in feet to give the Normalized Ground Snow Load (NGSL). The NGSL for each station is exported to ArcGIS software and mapped using the Inverse Distance Weighting (IDW). The IDW is an interpolation method that is available in ArcGIS to interpolate the values of the NGSL at an unknown point based on the average distance between the point of interest and the grid.

1.2 Research Objectives

This study includes the additional 31 years of data since the last study and incorporates the new stations that have been developed since the 1985 report. The current study includes a limited number of stations from neighboring states. The primary objective of this research is to develop an up-to-date contour map that can be used by state building officials, designers and others to ensure public safety.

1.3 Organization of Thesis

This thesis includes a literature review of the studies that were done by some of the eleven Western states. The thesis also includes a description of the procedures used,

including data collection, the extreme value statistical analysis, density conversion relationship, and mapping methodology.

CHAPTER 2: Literature Review

2.1 Idaho Report (1985)

The most recent snow study for the State of Idaho (Taheri 1985) used data from 138 NWS and 234 Soil Conservation Service (i.e., NRCS) stations in the State of Idaho plus 142 SCS stations from Washington, Oregon, and Montana. The annual maximum snow-water equivalent for the SCS stations was used, along with the maximum annual snow depth for NWS Coop stations. The snow depths were converted to snow loads using the Rocky Mountain Conversion Density (RMCD). The study analyzed the snow data using the extreme-value Log Pearson Type III distribution to give the ground snow loads having a 50-year MRI. The normalized ground snow load was used to create the contour map in conjunction with the inverse weighted distance interpolation method.

2.2 Washington Report (1995)

The snow load committee of the Structural Engineers Association of Washington updated the existing snow load analysis report using both NWS and NRCS snow data (SEAW 1995). The Washington snow load analysis used the Log Pearson Type III extreme-value distribution to yield the 50-year MRI snow depth or snow-water equivalent values. They used the Rocky Mountain Conversion Density (RMCD) to convert the snow depth to a ground snow load (Sack 1986) and the ground snow load for each station was normalized with respect to the elevation of that station. The 50-year MRI normalized ground snow loads were then mapped.

2.3 Oregon Report (2007)

The Oregon snow map was updated in 2007 by the snow load committee of the Structural Engineers Association of Oregon (SEAO). The Oregon study used the measurement of snow depth and snow-water equivalent of the NWS Coop and NRCS SNOTEL stations, respectively. The Oregon report used the following relationship:

$$\gamma_s = 0.279h_g^{1.36}$$

Where, γ_s is the unit weight of snow and h_g is the depth of the ground snow (ASCE7-10) to convert the snow depth to ground snow load. SEAO used the lognormal distribution to give the 50-year MRI ground snow loads. The Oregon snow map was created with the Parameter-elevation Regressions on Independent Slopes Model program (PRISM). PRISM is a climate mapping technology that calculates the regression curve and the load value for each grid, which are spaced at approximately 4 km and accounts for many topographical and meteorological relationships.

2.4 Montana Report (2004)

The report “Snow Load for Structural Design in Montana” was developed using the NWS Coop and NRCS SNOTEL stations for the entire state of Montana (Theisen et al 2004). The Montana report used the Log Normal and Log Pearson Type III statistical analyses to determine the 50-year MRI ground snow load values. The Log Pearson Type III was found to be the most appropriate for the State of Montana. For the density of the snow, the Montana report divided the state into six regions and each region was divided into four elevations. Subsequently the authors used various snow depth/snow-water equivalent

relationships for each region and elevation to calculate the ground snow load. The snow load map of the State of Montana was developed for each region using the NGS.

CHAPTER 3: Methods and Procedures

The methods, procedures and objectives of this updated report are similar to those used in the previous study (Taheri 1985). The data were updated to include the ensuing 31 years of data, as well as the information from new SNOTEL stations and the additional stations from Nevada, Utah, and Wyoming. This update collected the NWS Coop snow depth values and the NRCS SNOTEL and Snow Course data. The maximum annual snow depths for the Coop stations and the maximum snow-water equivalents for the NRCS stations were statistically analyzed using the Log Pearson Type III distribution to yield the 50-year MRI values. The snow depths from the NWS Coop stations were converted to snow loads using the RMCD (Sack 1986). The snow loads were divided by the station elevations in feet to give the NGSL values. Subsequently the NGSL were compiled for all stations, and a single contour map was created for Idaho using the inverse distance weighting method of the ArcGIS program. The procedure is explained in detail in the next sections.

3.1 Data Collection

The data were collected from two sources: (1) the National Resources Conservation Service (NRCS); and (2) the National Weather Service (NWS). The National Resources Conservation Service maintains two types of stations: the Snow Course and SNOW TELEmetry (SNOTEL) stations. Both stations provide measurements of snow-water equivalent. A Snow Course station is a site that is at a known longitude, latitude and elevation. In the snowpack season a person will go to the site at the beginning of each snowpack month and manually take the measurement of snow depth and snow-water equivalent (*usda.gov* 2015). The SNOTEL stations are located primarily in the mountains

of the western regions of the United States. The SNOTEL program uses a pressure-sensing snow pillow, precipitation gage, and air temperature sensor. Every 15 minutes the SNOTEL station takes the records of snow-water equivalent, which can be accessed through the internet (*usda.gov* 2015).

The NWS Cooperative Observation Program Network (Coop) stations are located primarily in major cities and airports. The Coop stations take daily measurements of snow depth. The NWS also maintains the so-called first-order stations, which take measurements of the snow-water equivalent. There are only four first order stations included in study. They are located in Boise, Lewiston, and Pocatello, Idaho plus the first-order station in Spokane, Washington, which is a few miles from the Washington-Idaho line. A total of 668 NRCS and NWS stations were included in this study, which are composed of 408 stations in the State of Idaho plus 260 NRCS and NWS stations located within 200 miles from Idaho border into the States of Washington, Oregon, Montana, Nevada, Utah, and Wyoming. Those stations are shown in Figures 6 and 7.

3.1.1 NRCS Data for the State of Idaho

The collection of NRCS data was done through the United States Department of Agriculture website (<http://www.wcc.nrcs.usda.gov/reportGenerator/>). The website has a user-friendly report generator in which the entire NRCS stations for the State of Idaho and other states can be displayed. For this study, the maximum accumulated daily snow-water equivalent for the entire period of record of each station was selected, as well as the metadata consisting of the Station Name, Number, Location, and Elevation. The maximum daily snow-water equivalent gives the maximum annual snow-water equivalent for each year. Stations with less than or equal to 10 years of data, were ignored for this study. The

snow-water equivalent is provided in inches of water, which is converted to ground snow load as follows:

$$P_g = (h_w) \left(\frac{\gamma_w}{12 \frac{in}{ft}} \right) \quad \text{where,}$$

P_g is the snow load in $\frac{lb}{ft^2}$

h_w is the snow water equivalent in inches

γ_w is the unit weight of water $62.4 \frac{lb}{ft^3}$

Snow data from 270 NRCS stations for the State of Idaho were analyzed. The metadata for the stations are shown in Appendix A.

3.1.2 NWS Data for the State of Idaho

The data for the NWS stations are available through the Desert Research Institute (DRI) website (<http://www.wrcc.dri.edu/coop-inventory/>). The website includes the Coop stations through the Western Regional Climate Center. The daily snow depth was accessed through the daily “data lister,” which provides the entire record of each station for selected measurements. The snow depth of each station must be converted to snow loads by considering the density of the snow. The previous Idaho report (Taheri 1985) concluded that the RMCD (Sack 1986) is the best fit for snow density vs. depth for the State of Idaho. The RMCD uses two different relationships, one for a snow depth less than 22 in and the other for depths greater than or equal to 22 in. The two equations will be discussed in Section 3.3.

The 138 NWS stations that were analyzed for the State of Idaho are shown in Appendix B.

3.1.3 NRCS and NWS Data for Neighboring States

This study includes data from NRCS stations that were incorporated in the previous study (Taheri 1985). Those NRCS stations were from the States of Washington, Montana, and Oregon. NWS stations from those states were also included. Additional NRCS and NWS stations from the States of Nevada, Utah, and Wyoming to ensure the continuity of the mapping interpolation. A total of 245 NRCS stations and 15 NWS stations from bordering States were included in this analysis. Those stations are shown in Appendices C-L.

3.2 Statistical Analysis

The data for this report were analyzed using the Log Pearson Type III (LP3) frequency analysis. The LP3 distribution incorporates the three parameters of the Gamma distribution applied to the logarithm of the random variables – in this case the snow-water equivalent or the snow depth (Bedient 2013). The Gamma distribution parameters are the mean, variance and the skewness. The LP3 frequency analysis has been recommended for flood analysis by the United States Interagency Advisory Committee on Water Data (U.S. IACWD 1982). The previous study for the ground snow loads for the State of Idaho (Taheri 1985), as well as the studies for Montana, Utah, and Washington used the LP3 distribution. To ensure the consistency of this study with the previous report it was decided to use the same statistical method as the previous study. In this study, we used the LP3 distribution to determine the snow-water equivalent for the NRCS stations, as well as the snow depth for the NWS stations.

Both the snow-water equivalent and snow depth values were determined for the Mean Recurrence Intervals (MRI) of 20, 25, 30, 50, and 100-years. The annual probability of the snow-water equivalent or snow depth to exceed the 20, 25, 30, 50, and 100-year MRI values are 5%, 4%, 3.33%, 2%, and 1% respectively.

The snow-water equivalent or the snow depth MRI values were calculated using Microsoft Excel as follows:

1. Import the data of each station for the year and the maximum annual accumulated snow-water equivalent (SWE) for the NRCS stations or snow depth (SD) for the NWS Coop stations.
2. Calculate the log of the SWE/SD using the function =LOG(xx) in Excel.
3. Calculate the sample mean of the LOG(SWE/SD) using the Excel function = Average(xx).
4. Calculate the sample standard deviation of the LOG(SWE/SD) using Excel function = STDEV(xx).
5. Calculate the sample skew coefficient of the LOG(SWE/SD) using Excel function = SKEW(xx).
6. Calculate the probability of exceedance by taking the inverse of the return period; for example, the probability of exceedance of 20 years is 1/20.
7. Interpolate the exceedance probability coefficients (K) from Appendix 5-1 pages 319-324 (McCuen 2005) using the probability of exceedance and the skew coefficient.
8. Calculate the design value for each MRI using the following formulas

$$SWE = 10^{\{Mean [Log (SWE)]+K*STDEV[Log(SWE)]\}}$$

$$SD = 10^{\{Mean [Log (SD)]+K*STDEV[Log(SD)]\}}$$

3.3 SPECIFIC GRAVITY OF SNOW

The NWS Coop stations do not provide the snow-water equivalent but only measure the snow depth in inches. The snow depth must be converted to ground snow load, which requires a specific gravity of the snow. There have been many studies on the specific gravity of snow. The ASCE used 204 NWS first-order stations to provide a nonlinear relationship between the snow depth and the density of snow. The relationship developed by ASCE is $\gamma = 0.279h_g^{1.36}$

Where, γ is the unit weight of snow and h_g is the depth of the ground snow in inches (ASCE7-10).

The RMCD is another relationship that was obtained by fitting a bilinear distribution to data from 3000 NRCS stations with over five years of record, which gives a relationship between the snow load and the snow depth (Sack 1986). The relationship is shown in the equation below:

For snow depths less than or equal to 22 in,

$$P_g = 0.9h_g$$

For snow depths greater than 22 in,

$$P_g = 0.9h_g - 31.9$$

Where, P_g is the ground snow load in lb/ft² and h_g is the snow depth in inches. Figure 1 represents the RMCD relationship between ground snow load and snow depth.

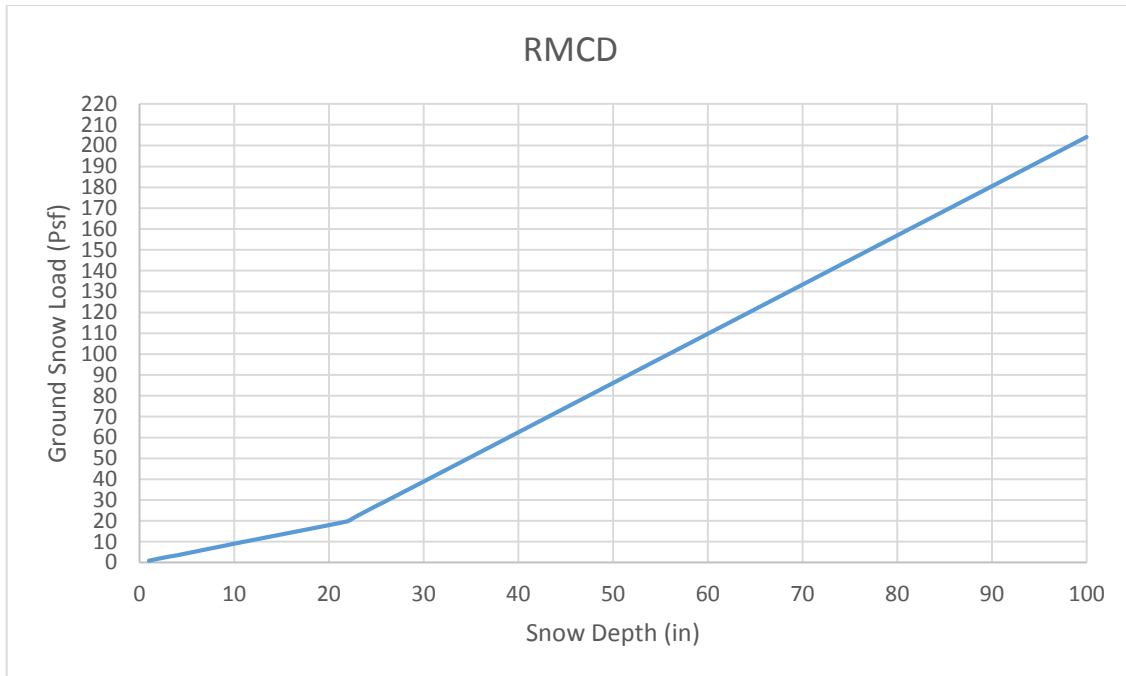


Figure 1: RMCD Relationship

The method used for this study is the RMCD in order to be consistent with the 1985 report (Taheri 1985). Also, some of the neighboring states such as Utah and Washington used the RMCD for their studies.

3.4 Normalized Ground Snow Load

The first ground snow load study for the State of Idaho found that the Normalized Ground Snow Load (NGSL) is the best method of representing the data (Rusten 1976). The States of Washington and Montana also used the NGSL for their maps. The NGSL is the ground snow load for a station divided by the elevation of that station. The NGSL is used to create the snow load map for this study.

3.5 Mapping

The mapping of Idaho ground snow load is done using ArcGIS for Desktop (ESRI product 2003). ArcGIS for Desktop is a geographic information system (GIS) for mapping, analyzing, and visualizing geographic information. ArcMap is an application within ArcGIS for Desktop that is used to perform various analyses on data such as spatial analysis, mathematical analysis and geo-statistical analysis. ArcGIS Spatial Analyst, an extension for ArcGIS for Desktop, provides various tools that can be used to interpolate unknown values including Natural Neighbor; Kriging; Inverse Distance Weighting (IDW); and spline.

3.5.1 ArcGIS

The development of the Idaho Normalized Ground Snow Loads Map within ArcGIS for Desktop began by using the 50-year MRI NGSL data from the NRCS and the NWS. ArcGIS requires the spatial location of each station, as well as the information needed to conduct the analysis. A summary table was created that includes the station name, longitude and latitude, and the NGSL in Microsoft Excel, which is imported to ArcGIS to make an x-y event layer (i.e. marking the stations on the map).

The map was developed using ModelBuilder, a tool for creating, editing, and managing models in ArcGIS for Desktop. The model diagram produced in this research is shown in Figure 2.

Along with the weather station data, digital elevation data from the National Elevation Dataset, U.S Geological Survey (USGS 2014), were used as input to the model. The data, with a 10 m² grid size, were used to delineate regions by elevation so that different weighting parameters could be applied to each region. The procedure for developing the

digital elevation map was to; 1) create the mosaic dataset; 2) import the elevation dataset rasters from the USGS; 3) add the imported elevation dataset raster to the mosaic dataset; 4) Project the raster to Idaho Transverse Mercator; 5) convert each cell from a floating-point number to an integer. The map was divided into two regions; a region for elevations less than or equal to 4000 ft as shown in Figure 3 and another region for elevations greater than 4000 ft as shown in Figure 4. Region I has a total of 105 NRCS and NWS stations and Region II, has a total of 563 NRCS and NWS stations. Using the Interpolation Toolset within ArcGIS, an appropriate IDW algorithm was selected for the interpolation process. For stations that are located at elevations less than or equal to 4000 ft, we used the power of 2 (i.e. $1/D^2$), and for stations at elevations that are greater than 4000 ft, the power of 6 was selected (i.e. $1/D^6$). The two regions were combined using the Mosaic Tool to produce the NGSL contour map. Finally, the map was clipped with a boundary of the State of Idaho to produce the final NGSL map for the State of Idaho as shown in Figure 5.

3.5.2 Interpolation Method

The contours on the Idaho NGSL map were interpolated using the Inverse Distance Weighting Method (IDW). The IDW interpolation method estimates the value of the NGSL at each grid location in the map using the average distance between the point of interest (the grid location) and the NGSL values of the nearest known stations. This is the same method used for the previous Idaho report (Taheri 1985).

For this report, several interpolation methods were also examined. These methods were: Natural Neighbor; Kriging; and IDW. The IDW method was selected since it gives the best representation of the NGSL for Idaho.

The IDW is associated with a specific weight and that is the inverse of the average distance ($1/D$) where D is the average distance between the point and the grid value. The previous study (Taheri 1985) used two different weighting values, one was for mountainous area and the other one was for flat areas. For mountainous areas $1/D^6$ was used and $1/D^2$ was used for flat areas and valleys. In this study, we assigned two different weighting values, one was for region I (flatter areas) and the other one for region II (steeper terrain). The weighting value of region I was $1/D^2$ and for region II used $1/D^6$, where region I is any area with elevations of 4000 ft or less and region II for any area greater than 4000 ft of elevation. Region I and Region II are shown in Figure 3 and 4, respectively. The $1/D^6$ weighting factor reduces the effect of more distant stations on the interpolated NGSL value at a given grid location, which is appropriate for rapidly varying terrain in mountainous areas at higher elevations.

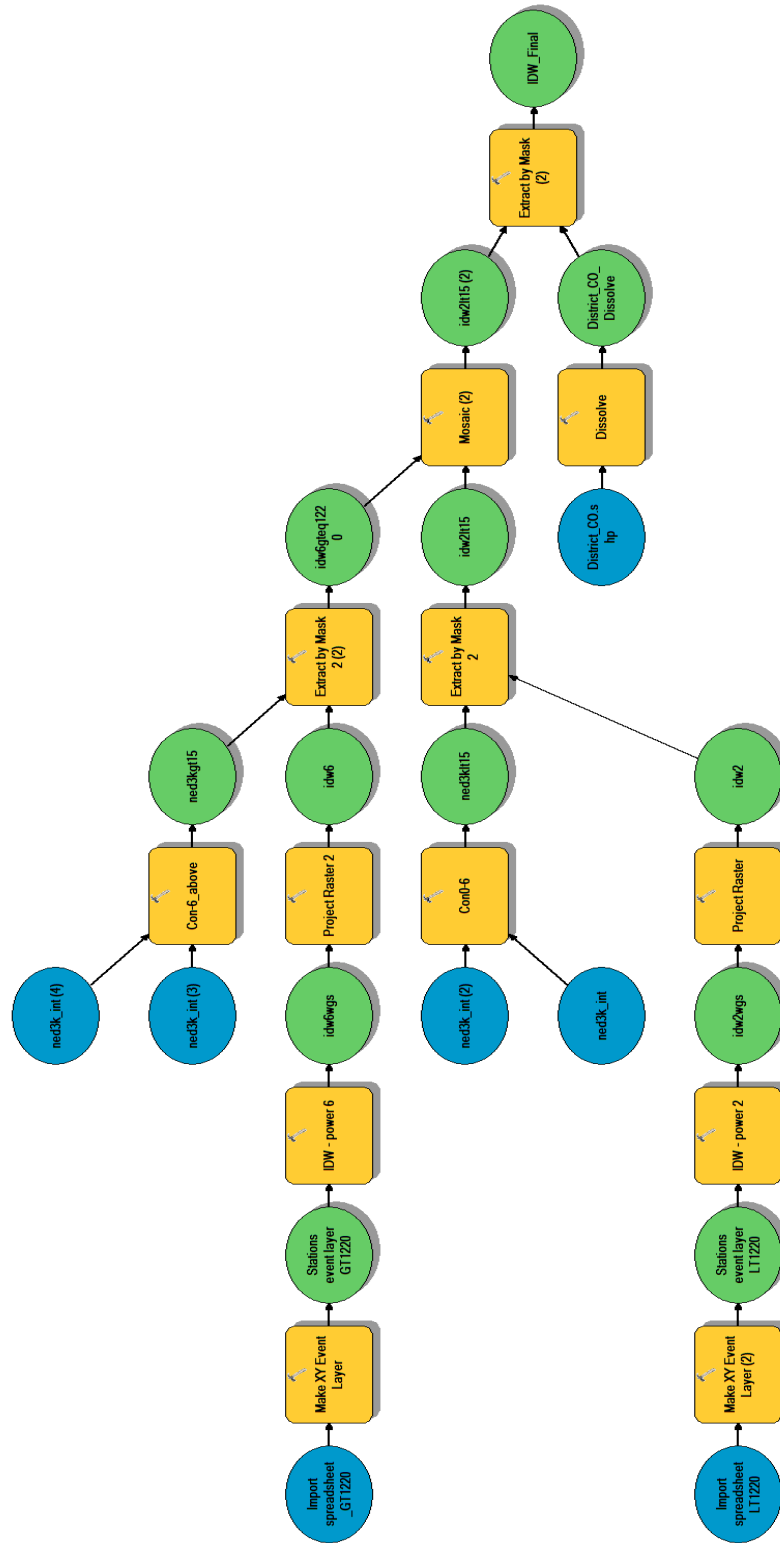


Figure 2: ArcGIS Model

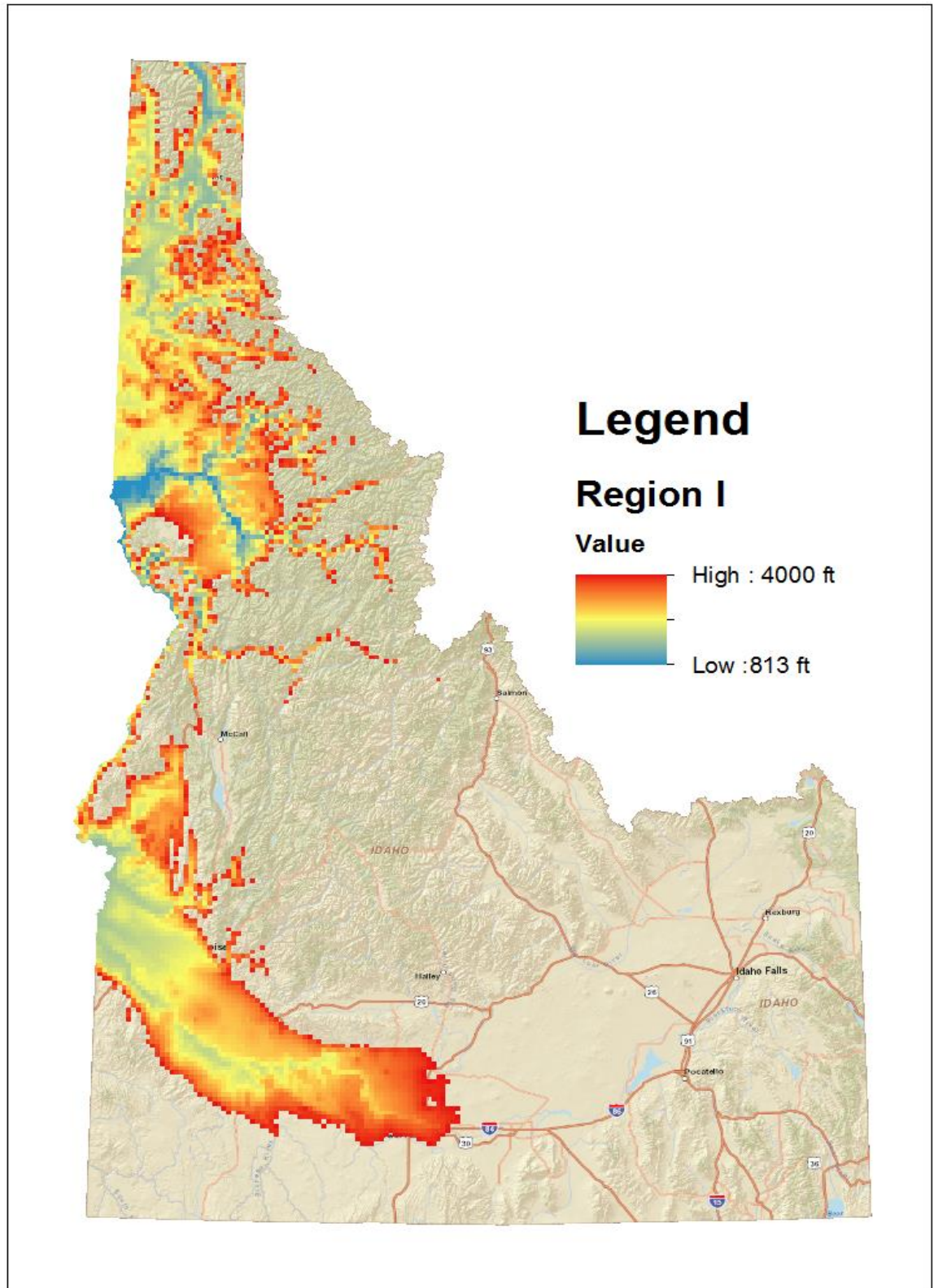


Figure 3: Region I (Elevation Less than or Equal 4000 ft)

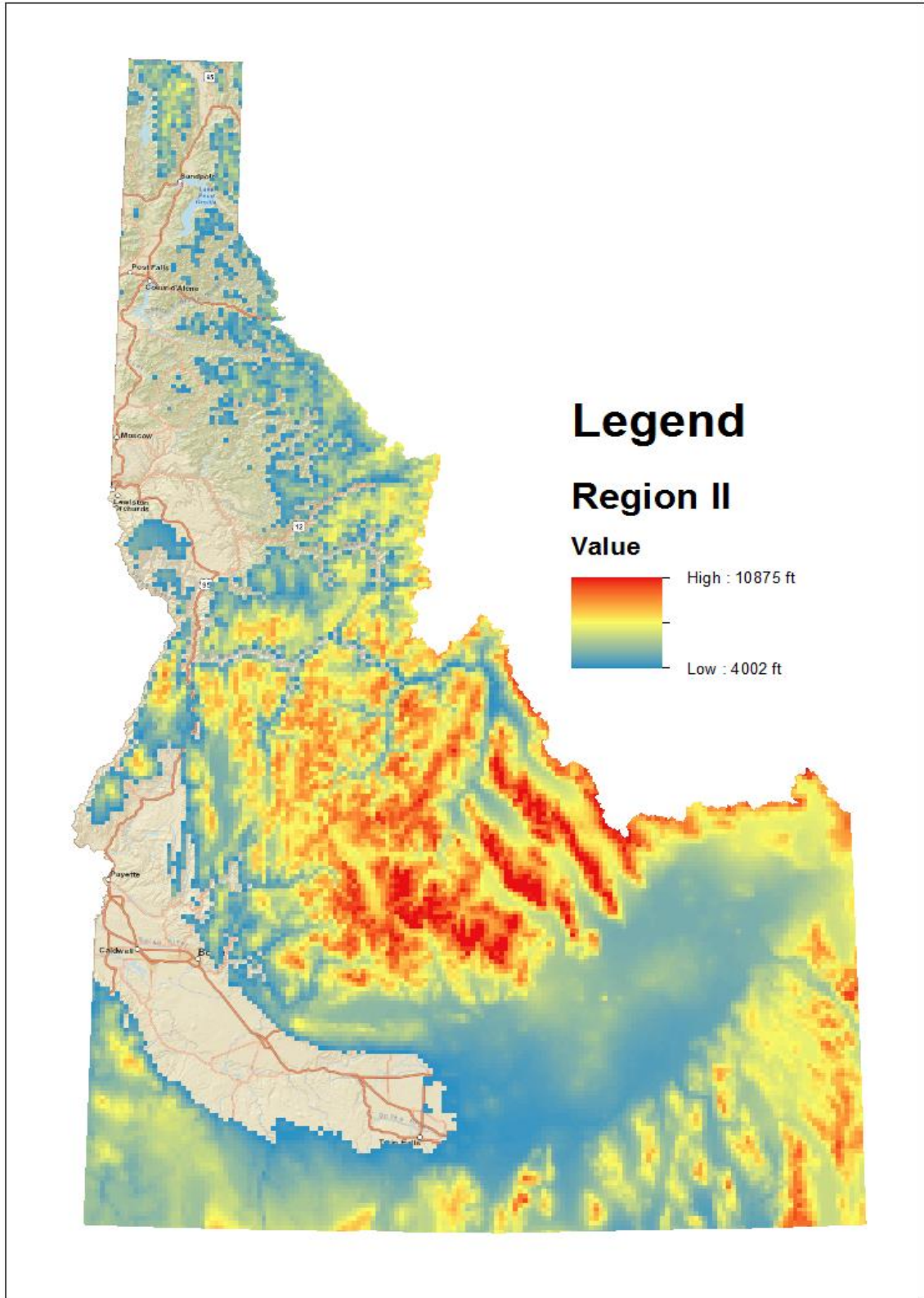


Figure 4: Region II (Elevation Greater than 4000 ft)

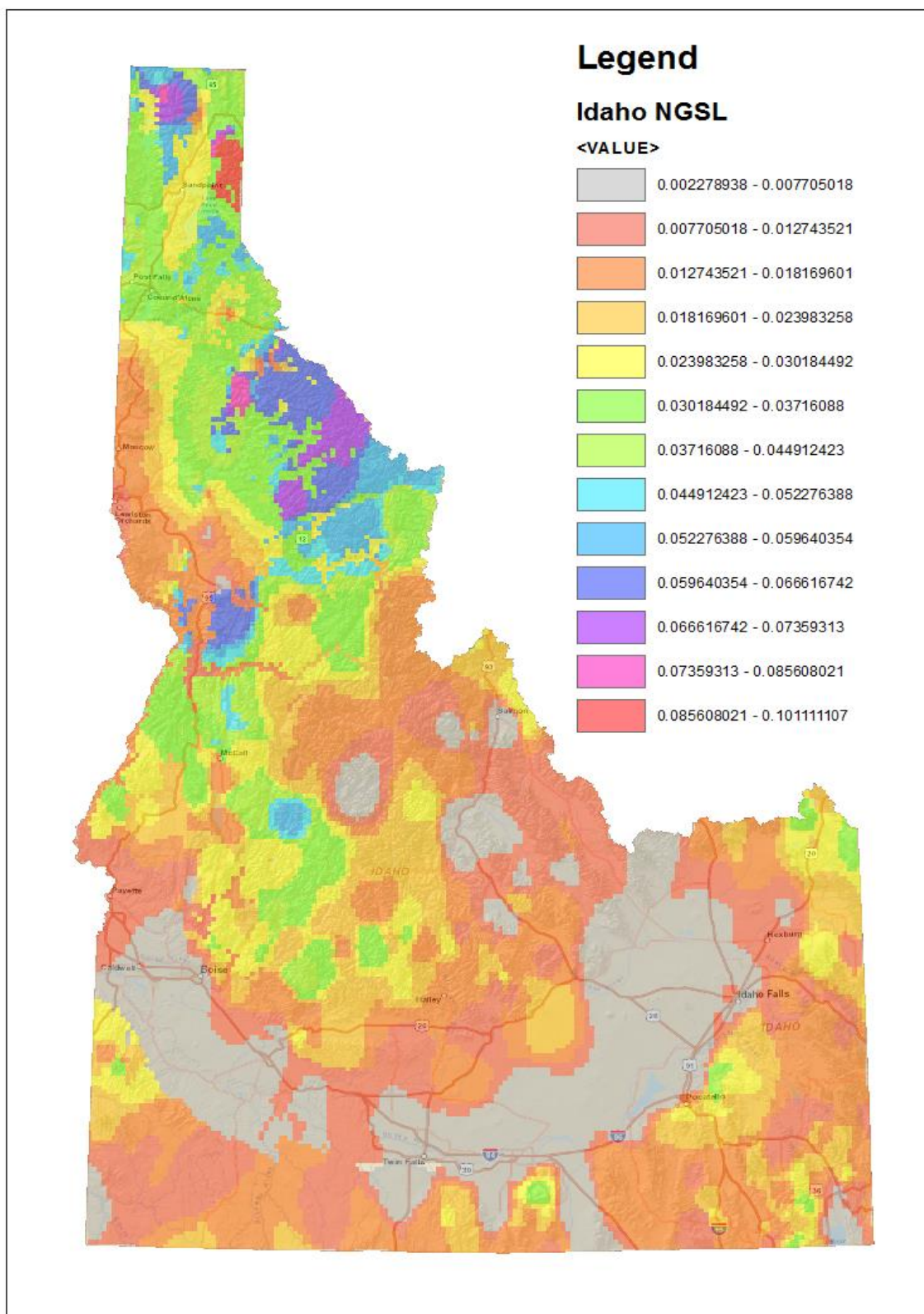


Figure 5: Idaho Normalized Ground Snow Load

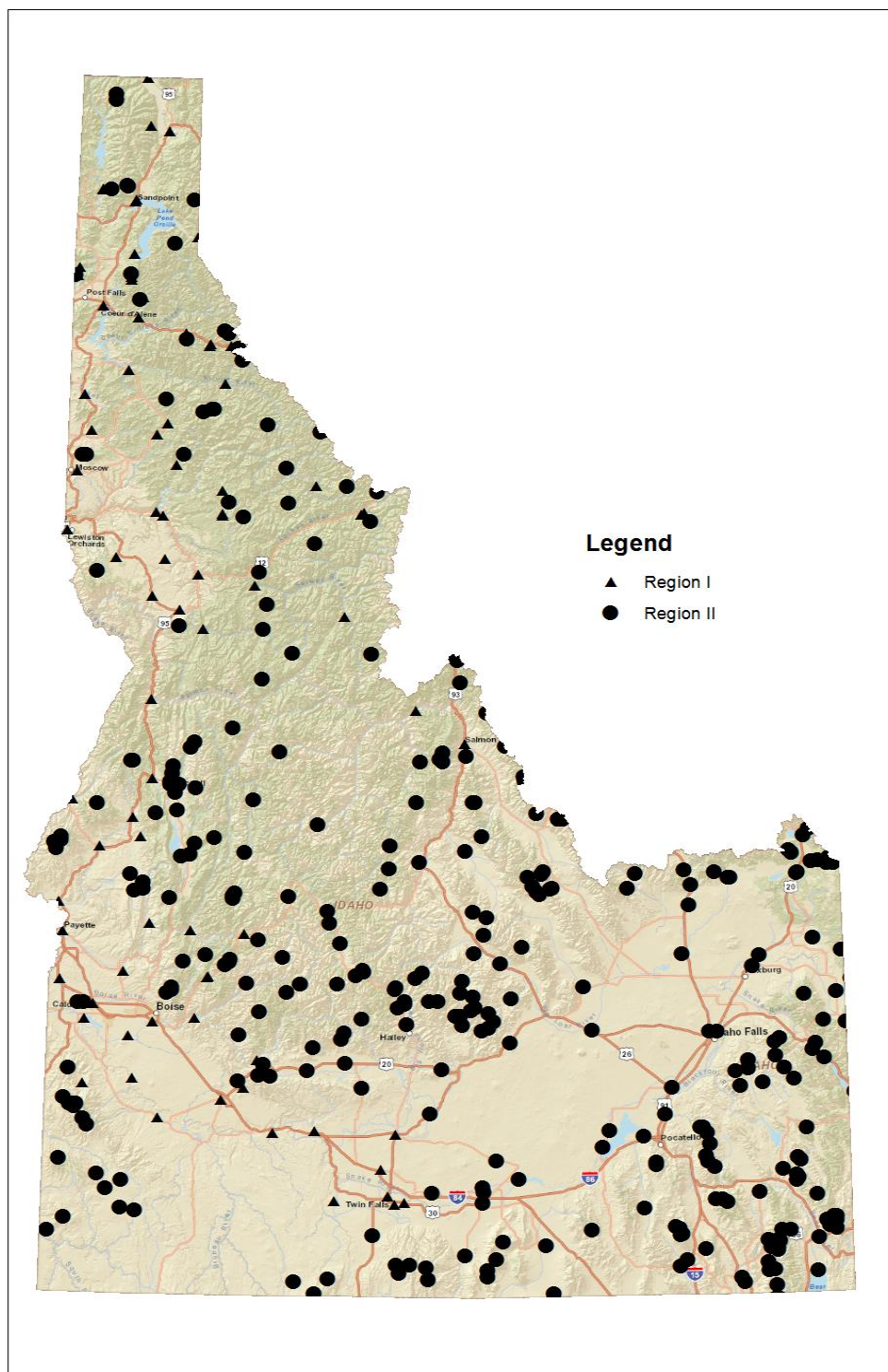


Figure 6: Idaho NRCS & NWS Stations

Legend

- ◆ Snow Stations

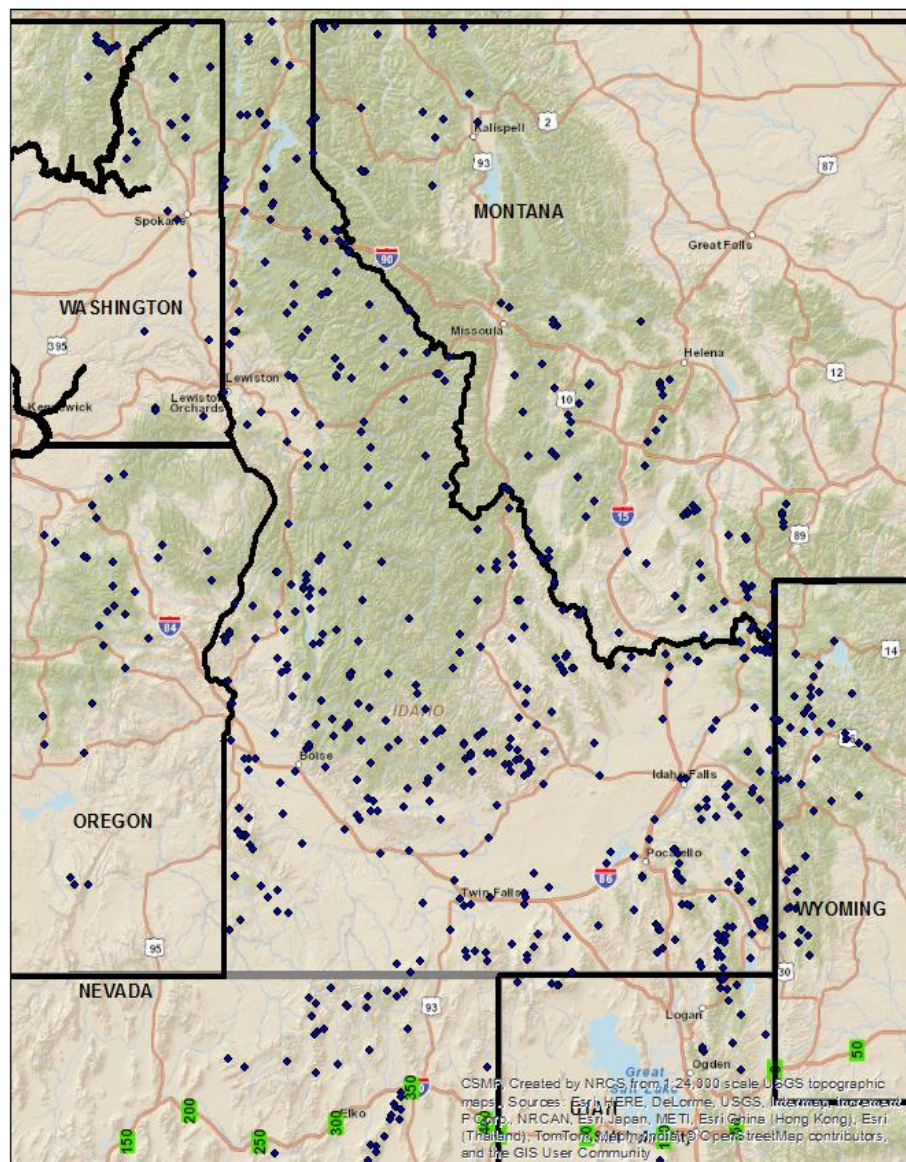


Figure 7: Idaho and Adjacent State NRCS & NWS Stations

3.6 Effect of Methodology Changes

The 31 additional years of data, as well as the new stations from the neighboring states influenced the new results of some of the locations in the State of Idaho and along its borders. Compared to the 1985 study, the counties of Ada, Bannock, Benewah, Bingham, Butte, Clark, Clearwater, Jefferson, Jerome, Minidoka, and Payette did not experience great changes in their ground snow loads. Adams County experienced about a 30% drop in its snow loads. Communities in Bear Lake County experienced a 25% drop in the ground snow load with the exception of Georgetown and Saint Charles. Georgetown's ground snow load increased from 102 to 114 psf. Saint Charles's decreased from 90 psf to 35 psf. Saint Charles has a station that is located less than three miles to the east of the city which has a ground snow load of 35 psf. The Saint Charles station was not available for the 1985 report.

Blaine County has snow loads ranging from 80 to 84 psf. In Boise County, Idaho City and Placerville did not experience any big changes in their snow load values; whereas Crouch and Horseshoe bend experienced about a 40% drop in their snow loads. In general, the counties of Adams, Bear Lake, Blaine, Boise, Bonner, Bonneville, Boundary, Camas, Elmore, Gem, Latah, Shoshone, Valley, and Washington experienced reduction in their ground snow loads. The other counties did not experience great changes in their snow load values, with the exception of some towns and cities that are shown in the note section in Appendix N.

An assessment of differences in ground snow loads at the Idaho borders is done using values from this study and contrasted to snow loads obtained from the State reports for Washington, Montana and Oregon.

The Washington-Idaho border has some agreement on the snow load between several of the cities and towns located adjacent to the border. For instance, Tensed, Idaho & Tekoa, Washington have snow loads of 32 and 39 psf, respectively. Palouse, Washington and Potlatch, Idaho have snow loads of 36 and 39 psf respectively. One of the major differences from the 1985 Idaho report is associated with the two adjacent towns of Moscow, Idaho and Pullman, Washington. Moscow, Idaho from this report has a snow load of 39 psf. and Pullman, Washington has a snow load of 30 psf, which is much smaller than the difference between the snow loads for these two cities in the 1985 report. The difference of snow loads between Spokane, Washington and Coeur d'Alene has improved, where the snow loads are 39 and 43 psf, respectively. A previous study case by the Structural Engineers Association of Washington (SEAO) indicated that the city of Spokane receives an average of 48 inches of snowfall yearly; whereas the City of Coeur d'Alene receives an average yearly snowfall of 67 inches, which explains the differences in snow load for these two adjacent cities.

For the Oregon-Idaho border, there is some agreement of snow load values along the border. Weiser, Idaho has a snow load of 17 psf, and the Oregon study gives a snow load of 15 psf. From the present report, Payette, Idaho is predicted to have a ground snow load of 17 psf; whereas the Oregon map yields 15 psf. Ontario, Oregon and Fruitland, Idaho have snow loads of 15 and 18 psf, respectively.

At the Montana-Idaho border, Moyie Springs, Idaho has a snow load of 72 psf and the adjacent border of Montana predicts a snow load of 88 psf. Bonners Ferry, Idaho and the adjacent border of Montana have snow loads of 64 and 71 psf, respectively.

CHAPTER 4: Summary and Conclusions

This report used both NWS and NRCS data for the State of Idaho. The records for each station were collected for the study. A total of 270 NRCS stations and 138 NWS stations were analyzed for the State of Idaho. An additional 260 NRCS and NWS stations from Montana, Nevada, Oregon, Utah, Washington, and Wyoming were also analyzed and incorporated for the mapping. A summary of the station metadata is shown in Appendix M.

The statistical analysis of this report was done using the Log Pearson Type III extreme value distribution. The NRCS and NWS stations were analyzed to obtain the 20, 25, 30, 50, and 100-year MRI values for the snow-water equivalent and snow depth respectively. The 50-year MRI value was selected for the snow loads. The statistical analysis of the data for Idaho, Washington, Montana, Wyoming, Utah, Nevada, and Oregon are shown in Appendix A through L.

The 50-year MRI snow-water equivalent and snow depth values were converted to ground snow loads. For the NRCS stations the snow-water equivalent was multiplied by the unit weight of water to provide the ground snow loads. For the NWS stations the snow depth was converted to ground snow load using the RMCD. All snow loads were converted to the NGSLs by dividing the station ground snow load values by the elevation in feet of the station. The NGSLs for all analyzed stations are shown in Table O-1, Appendix O.

The mapping of the Idaho NGSL was done using ArcGIS. The Inverse Distance Weighing Method was used to interpolate the NGSL values. Two different weighting functions were assigned: one for the mountainous areas (i.e. elevation > 4000 ft); and

another for flat areas (i.e. elevation ≤ 4000 ft). The functions selected were $1/D^2$ for flat areas and $1/D^6$ was for mountainous area.

The ground snow loads for major cities and towns in the State of Idaho, are shown in Appendix N.

The findings of this study reveal that some counties such as Ada, Bannock, Benewah, Bingham, Butte, Clark, Clearwater, Jefferson, Jerome, Minidoka, and Payette did not experience any great changes in their ground snow loads as compared to the current map. Many counties such as Adams, Bear Lake, Blaine, Boise, Bonner, Bonneville, Boundary, Camas, Elmore, Gem, Latah, Shoshone, Valley, and Washington experienced a reduction in their 50-year MRI ground snow loads. The other counties experienced an increase in their ground snow loads. Some of the cities and towns located near the borders of Idaho showed an agreement in their ground snow load when compared with the other States maps. Example of which are Moscow, Idaho and Pullman, Washington, Fruitland, Idaho and Ontario, Oregon.

In conclusion, the proposed map shows improved agreement at the borders of the State of Idaho when comparing values with adjacent States' maps. The NGSL is the best method of representing the ground snow load for the State. Figure 5 represents the best estimate of the NGSLs for Idaho and the associated cities and towns.

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APPENDIX A: Idaho NRCS Data

Station Name Above Burke
 Elevation 4100 ft
 Location Latitude Longitude
 47.53333 -115.78333
 NOB 40

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	66	345
25	69	360
30	71	371
50	77	403
100	85	444

Station Name Above Gilmore
 Elevation 8240 ft
 Location Latitude Longitude
 44.45 -113.3
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	15	79
25	16	81
30	16	83
50	17	88
100	18	94

Station Name Above Ronald
 Elevation 4350 ft
 Location Latitude Longitude
 47.38333 -115.66667
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	50	261
25	52	269
30	53	276
50	56	294
100	61	316

Station Name Allen Ranch
 Elevation 6470 ft
 Location Latitude Longitude
 42.76667 -111.41667
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	14	75
25	14	75
30	15	76
50	15	76
100	15	77

Station Name antelope Ridge
 Elevation 6180 ft
 Location Latitude Longitude
 42.65 -116.43333
 NOB 32

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	82
25	17	86
30	17	89
50	19	97
100	21	108

Station Name Aspen Grove
 Elevation 6500 ft
 Location Latitude Longitude
 43.45 -111.58333
 NOB 30

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	95
25	19	96
30	19	98
50	19	101
100	20	104

Station Name Aspen Hall Pass
 Elevation 8200 ft
 Location Latitude Longitude
 44.75 -113.15
 NOB 39

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	15	79
25	15	81
30	16	82
50	16	85
100	17	89

Station Name Atlanta Summit (Disc)
 Elevation 7580 ft
 Location Latitude Longitude
 43.75 -115.23333
 NOB 81

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	50	261
25	51	265
30	52	269
50	53	278
100	55	288

Station Name Atlanta Townsite (Disc)
 Elevation 5370 ft
 Location Latitude Longitude
 43.8 -115.13333
 NOB 12

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	84
25	17	87
30	17	89
50	18	95
100	20	102

Station Name Austin Bros. Ranch (Disc)
 Elevation 6400 ft
 Location Latitude Longitude
 42.78333 -111.43333
 NOB 59

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	13	70
25	14	70
30	14	71
50	14	72
100	14	73

Station Name Bad Bear
 Elevation 4940 ft
 Location Latitude Longitude
 43.9 -115.7
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	22	116
25	23	119
30	23	121
50	24	127
100	26	134

Station Name Badger Gulch
 Elevation 6660 ft
 Location Latitude Longitude
 42.1 -114.16667
 NOB 68

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	21	109
25	22	112
30	22	114
50	23	121
100	25	128

Station Name Banner Summit (Disc)
 Elevation 7040 ft
 Location Latitude Longitude
 44.3 -115.23333
 NOB 36

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	39	204
25	40	209
30	41	213
50	43	223
100	45	236

Station Name Battle Creek AM
 Elevation 5710 ft
 Location Latitude Longitude
 42.47742 -116.32585
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	9	45
25	9	46
30	9	46
50	9	48
100	9	49

Station Name Bear Basin (Disc)
 Elevation 5350 ft
 Location Latitude Longitude
 44.95 -116.15
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	28	143
25	28	146
30	29	149
50	30	155
100	31	162

Station Name Bear Canyon (Disc)
 Elevation 7900 ft
 Location Latitude Longitude
 43.75 -113.93333
 NOB 63

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	29	153
25	31	159
30	31	164
50	34	177
100	38	196

Station Name Bear Mountain (Disc)
 Elevation 5400 ft
 Location Latitude Longitude
 48.3 -116.08333
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	93	485
25	96	500
30	98	512
50	105	546
100	114	591

Station Name Bear Saddle (Disc)
 Elevation 6180 ft
 Location Latitude Longitude
 44.6 -116.96667
 NOB 34

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	38	197
25	39	204
30	40	210
50	44	227
100	48	250

Station Name Beaverdam Creek (Disc)
 Elevation 6120 ft
 Location Latitude Longitude
 42.55 -112
 NOB 32

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	15	77
25	15	79
30	15	80
50	16	83
100	17	87

Station Name Below Roland (Disc)
 Elevation 3920 ft
 Location Latitude Longitude
 47.38333 -115.66667
 NOB 33

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	138
25	27	143
30	28	146
50	30	155
100	32	166

Station Name Bennett Mountain (Disc)
 Elevation 6560 ft
 Location Latitude Longitude
 43.26667 -115.43333
 NOB 29

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	29	149
25	29	153
30	30	155
50	31	163
100	33	171

Station Name Benton Meadow
 Elevation 2370 ft
 Location Latitude Longitude
 48.35 -116.83333
 NOB 78

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	11	59
25	12	60
30	12	61
50	12	65
100	13	68

Station Name Benton Spring
 Elevation 4920 ft
 Location Latitude Longitude
 48.35 -116.76667
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	31	162
25	32	166
30	33	170
50	34	179
100	37	190

Station Name Big Creek Summit (Disc)
 Elevation 6580 ft
 Location Latitude Longitude
 44.63333 -115.8
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	51	265
25	52	269
30	52	272
50	54	280
100	55	288

Station Name Big Springs
 Elevation 6400 ft
 Location Latitude Longitude
 44.48333 -111.26667
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	30	154
25	30	157
30	31	159
50	32	166
100	33	174

Station Name Birch Creek (Disc)
 Elevation 6800 ft
 Location Latitude Longitude
 43.45 -111.58333
 NOB 34

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	20	103
25	21	108
30	21	111
50	23	120
100	26	133

Station Name Black Canyon (Disc)
 Elevation 7960 ft
 Location Latitude Longitude
 44.46667 -111.1
 NOB NOB

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	49	49
25	49	49
30	50	50
50	51	51
100	52	52

Station Name Black Moose (Disc)
 Elevation 8160 ft
 Location Latitude Longitude
 44.5 -111.13333
 NOB 32

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	57	295
25	58	299
30	58	302
50	59	309
100	61	316

Station Name Blue Ledge Mine (Disc)
 Elevation 6900 ft
 Location Latitude Longitude
 44.43333 -112
 NOB 55

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	142
25	28	147
30	29	151
50	31	162
100	34	177

Station Name Blue Ridge
 Elevation 6780 ft
 Location Latitude Longitude
 43.2 -111.85
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	143
25	28	146
30	28	148
50	30	154
100	31	161

Station Name Bogus Basin
 Elevation 6340 ft
 Location Latitude Longitude
 43.76667 -116.1
 NOB 73

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	38	197
25	39	202
30	39	205
50	41	213
100	43	224

Station Name Bogus Basin Road
 Elevation 5540 ft
 Location Latitude Longitude
 43.73333 -116.13333
 NOB 58

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	12	64
25	12	65
30	13	66
50	13	67
100	13	68

Station Name Bone
 Elevation 6200 ft
 Location Latitude Longitude
 43.3 -111.78333
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	11	59
25	11	60
30	12	61
50	12	63
100	13	65

Station Name Borah (Disc)
 Elevation 8250 ft
 Location Latitude Longitude
 44.18333 -113.73333
 NOB 30

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	10	54
25	10	55
30	11	55
50	11	57
100	11	59

Station Name Bostetter R.S. (Disc)
 Elevation 7500 ft
 Location Latitude Longitude
 42.16667 -114.18333
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	30	156
25	31	161
30	32	164
50	33	174
100	36	187

Station Name Boulder Creek (Disc)
 Elevation 5440 ft
 Location Latitude Longitude
 45.06667 -116.45
 NOB 55

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	35	183
25	36	188
30	37	191
50	39	200
100	41	211

Station Name Boy Scout Camp
 Elevation 7740 ft
 Location Latitude Longitude
 42.21667 -113.66667
 NOB 67

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	24	126
25	25	129
30	25	131
50	27	138
100	28	147

Station Name Breezy Saddle (Disc)
 Elevation 5010 ft
 Location Latitude Longitude
 47.1 -115.9
 NOB 30

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	50	258
25	51	266
30	52	272
50	55	289
100	60	310

Station Name Brockman Station (Disc)
 Elevation 6430 ft
 Location Latitude Longitude
 43.23333 -111.45
 NOB 31

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	15	80
25	16	82
30	16	83
50	16	86
100	17	89

Station Name Brundage Mountain (Disc)
 Elevation 7560 ft
 Location Latitude Longitude
 45 -116.13333
 NOB 31

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	68	354
25	69	358
30	69	360
50	71	367
100	72	373

Station Name Brundage Reservoir
 Elevation 6250 ft
 Location Latitude Longitude
 45.04315 -116.13253
 NOB 29

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	40	207
25	40	209
30	40	211
50	41	214
100	42	216

Station Name Bruno Creek
 Elevation 7920 ft
 Location Latitude Longitude
 44.35 -114.53333
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	28	147
25	29	151
30	30	154
50	31	163
100	33	173

Station Name Buck Meadows (Disc)
 Elevation 5650 ft
 Location Latitude Longitude
 45.98333 -115.43333
 NOB 37

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	47	244
25	48	252
30	50	259
50	53	277
100	58	303

Station Name Bull Basin AM
 Elevation 5460 ft
 Location Latitude Longitude
 42.35 -116.96667
 NOB 53

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	6	32
25	6	33
30	7	34
50	7	36
100	7	38

Station Name Camas Creek Divide
 Elevation 5710 ft
 Location Latitude Longitude
 43.26667 -115.35
 NOB 55

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	19	97
25	19	98
30	19	99
50	20	102
100	20	105

Station Name Camp Creek
 Elevation 6580 ft
 Location Latitude Longitude
 44.45 -112.23333
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	88
25	18	91
30	18	93
50	19	100
100	21	108

Station Name Cayuse Airstrip (Disc)
 Elevation 3500 ft
 Location Latitude Longitude
 46.66667 -115.06667
 NOB 47

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	19	96
25	19	99
30	19	100
50	20	105
100	21	109

Station Name Cedar Creek (Disc)
 Elevation 6800 ft
 Location Latitude Longitude
 42.1 -114.9
 NOB 38

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	90
25	18	92
30	18	93
50	19	96
100	19	100

Station Name Chilco Ridge (Disc)
 Elevation 3650 ft
 Location Latitude Longitude
 47.85 -116.58333
 NOB 27

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	82
25	17	86
30	17	90
50	19	98
100	21	110

Station Name Chimney Creek
 Elevation 6400 ft
 Location Latitude Longitude
 43.43333 -115.03333
 NOB 36

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	22	113
25	22	117
30	23	120
50	25	128
100	26	138

Station Name Chocolate Gulch
 Elevation 6440 ft
 Location Latitude Longitude
 43.7685 -114.41812
 NOB 22

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	84
25	16	84
30	16	84
50	16	84
100	16	84

Station Name Christensen Ranch (Disc)
 Elevation 5560 ft
 Location Latitude Longitude
 42.26667 -111.65
 NOB 37

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	13	68
25	13	69
30	13	70
50	14	72
100	14	73

Station Name Cliff Canyon (Disc)
 Elevation 7200 ft
 Location Latitude Longitude
 42.38333 -112.31667
 NOB 32

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	19	97
25	19	100
30	20	103
50	21	111
100	23	121

Station Name Cold Springs (Disc)
 Elevation 7000 ft
 Location Latitude Longitude
 42.8 -112.11667
 NOB 13

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	33	170
25	33	174
30	34	177
50	36	186
100	38	197

Station Name Conie Ridge (Disc)
 Elevation 3900 ft
 Location Latitude Longitude
 47.83333 -116.58333
 NOB 27

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	90
25	18	94
30	19	96
50	20	104
100	22	114

Station Name Cool Creek (Disc)
 Elevation 6280 ft
 Location Latitude Longitude
 46.76667 -115.3
 NOB 30

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	76	395
25	78	408
30	81	419
50	86	449
100	94	491

Station Name Coolwater Mountain (Disc)
 Elevation 6040 ft
 Location Latitude Longitude
 46.16667 -115.5
 NOB 30

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	55	287
25	57	295
30	58	301
50	61	318
100	66	341

Station Name Copes Camp
 Elevation 7520 ft
 Location Latitude Longitude
 44.85 -113.81667
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	12	60
25	12	61
30	12	62
50	12	65
100	13	68

Station Name Copper Basin
 Elevation 7640 ft
 Location Latitude Longitude
 43.81667 -113.91667
 NOB 77

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	87
25	17	90
30	18	91
50	19	97
100	20	102

Station Name Copper Ridge (Disc)
 Elevation 4820 ft
 Location Latitude Longitude
 47.71667 -116.5
 NOB 57

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	45	235
25	46	240
30	47	243
50	48	251
100	50	261

Station Name Corner Creek
 Elevation 3150 ft
 Location Latitude Longitude
 47.83333 -116.58333
 NOB 46

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	15	77
25	15	79
30	15	81
50	16	84
100	17	88

Station Name Couch Summit #2
 Elevation 6840 ft
 Location Latitude Longitude
 43.51667 -114.8
 NOB 68

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	28	146
25	28	148
30	29	150
50	30	155
100	31	160

Station Name Cougar Point
 Elevation 6780 ft
 Location Latitude Longitude
 45.08333 -114.06667
 NOB 28

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	7	37
25	7	37
30	7	37
50	7	37
100	7	37

Station Name Cozy Cove (Disc)
 Elevation 5380 ft
 Location Latitude Longitude
 44.28333 -115.65
 NOB 66

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	24	125
25	24	127
30	25	129
50	26	134
100	27	139

Station Name Crab Creek (Disc)
 Elevation 6860 ft
 Location Latitude Longitude
 44.43333 -112
 NOB 55

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	25	131
25	26	136
30	27	141
50	29	152
100	32	167

Station Name Crater Meadows (Disc)
 Elevation 5960 ft
 Location Latitude Longitude
 46.56667 -115.28333
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	68	351
25	69	359
30	70	366
50	74	383
100	78	405

Station Name Crawford R.S. (Disc)
 Elevation 4860 ft
 Location Latitude Longitude
 44.53333 -115.98333
 NOB 55

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	13	68
25	13	69
30	13	70
50	14	72
100	14	74

Station Name Crooked Fork
 Elevation 3610 ft
 Location Latitude Longitude
 46.51667 -114.68333
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	20	102
25	20	106
30	21	109
50	22	117
100	24	127

Station Name Cub River R.S. (Disc)
 Elevation 5450 ft
 Location Latitude Longitude
 42.13333 -111.66667
 NOB 39

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	14	72
25	14	74
30	14	75
50	15	79
100	16	83

Station Name Daniels Creek
 Elevation 6270 ft
 Location Latitude Longitude
 42.395 -112.346
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	10	52
25	10	53
30	10	54
50	11	55
100	11	57

Station Name Deadline (Disc)
 Elevation 6900 ft
 Location Latitude Longitude
 42.18333 -114.3
 NOB 39

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	37	192
25	38	197
30	39	201
50	41	212
100	43	225

Station Name Deadline South (Disc)
 Elevation 7450 ft
 Location Latitude Longitude
 42.18333 -114.3
 NOB 30

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	42	219
25	43	225
30	44	230
50	47	243
100	50	259

Station Name Deadman Gulch
 Elevation 5600 ft
 Location Latitude Longitude
 43.91667 -116.01667
 NOB 66

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	26	135
25	27	138
30	27	141
50	28	146
100	29	153

Station Name Deadwood Airstrip (Disc)
 Elevation 5360 ft
 Location Latitude Longitude
 44.3 -115.65
 NOB 34

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	23	118
25	23	119
30	23	120
50	24	123
100	24	126

Station Name Deadwood Summit (Disc)
 Elevation 6860 ft
 Location Latitude Longitude
 44.55 -115.56667
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	66	345
25	67	351
30	68	355
50	70	366
100	73	379

Station Name Democrat Creek
 Elevation 5686 ft
 Location Latitude Longitude
 43.08333 -116.78333
 NOB 45

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	81
25	16	82
30	16	83
50	16	85
100	17	87

Station Name Dempsey Creek (Disc)
 Elevation 6100 ft
 Location Latitude Longitude
 42.55 -112.05
 NOB 32

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	95
25	19	96
30	19	97
50	19	100
100	20	104

Station Name Dobson Creek
 Elevation 7084 ft
 Location Latitude Longitude
 43.08333 -116.83333
 NOB 45

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	42	220
25	43	224
30	44	228
50	46	238
100	48	249

Station Name Dodson Pass
 Elevation 4260 ft
 Location Latitude Longitude
 44.33333 -116.33333
 NOB 19

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	8	44
25	9	44
30	9	44
50	9	45
100	9	45

Station Name Dollarhide Summit (Disc)
 Elevation 8420 ft
 Location Latitude Longitude
 43.6 -114.66667
 NOB 65

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	39	202
25	39	205
30	40	208
50	41	213
100	42	219

Station Name Double Springs Pass (Disc)
 Elevation 8400 ft
 Location Latitude Longitude
 44.21667 -113.83333
 NOB 24

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	14	73
25	14	73
30	14	73
50	14	73
100	14	73

Station Name Dry Basin
 Elevation 7820 ft
 Location Latitude Longitude
 42.265 -111.6005
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	44	229
25	45	235
30	46	240
50	49	253
100	52	268

Station Name Dry Creek Flat (Disc)
 Elevation 6360 ft
 Location Latitude Longitude
 42.26667 -112.13333
 NOB 38

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	15	78
25	15	79
30	15	81
50	16	83
100	16	86

Station Name Dry Fork
 Elevation 7220 ft
 Location Latitude Longitude
 43.58333 -113.68333
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	24	127
25	25	131
30	26	135
50	28	144
100	30	157

Station Name East Creek
 Elevation 7100 ft
 Location Latitude Longitude
 42.53333 -111.96667
 NOB 35

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	19	98
25	19	101
30	20	104
50	21	110
100	23	119

Station Name East Ragged Saddle
 Elevation 3740 ft
 Location Latitude Longitude
 47.85 -117.01667
 NOB 23

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	33	171
25	34	177
30	35	182
50	37	195
100	41	212

Station Name East Twin (Disc)
 Elevation 4130 ft
 Location Latitude Longitude
 46.81667 -116.9
 NOB 34

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	23	122
25	24	126
30	25	130
50	27	138
100	28	147

Station Name Elk Butte New (Disc)
 Elevation 5690 ft
 Location Latitude Longitude
 45.85 -116.11667
 NOB 51

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	62	325
25	65	336
30	67	346
50	72	373
100	79	410

Station Name Elk Butte Old (Disc)
 Elevation 5380 ft
 Location Latitude Longitude
 46.83333 -116.11667
 NOB 37

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	59	306
25	61	318
30	63	328
50	68	354
100	75	391

Station Name Emigrant Summit (Disc)
 Elevation 7390 ft
 Location Latitude Longitude
 42.36667 -111.56667
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	38	197
25	39	202
30	40	207
50	42	219
100	45	234

Station Name Emigration Canyon
 Elevation 6500 ft
 Location Latitude Longitude
 42.364 -111.506
 NOB 62

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	89
25	18	91
30	18	93
50	19	97
100	20	102

Station Name Fairview G.S. (Disc)
 Elevation 6750 ft
 Location Latitude Longitude
 44.33333 -113.35
 NOB 30

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	7	37
25	7	37
30	7	37
50	7	38
100	7	39

Station Name Fall Creek
 Elevation 6820 ft
 Location Latitude Longitude
 43.46667 -111.55
 NOB 31

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	13	67
25	13	69
30	14	71
50	15	76
100	16	83

Station Name Fish Lake Airstrip
 Elevation 5650 ft
 Location Latitude 46.33333 Longitude -115.06667
 NOB 63

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	57	294
25	58	300
30	59	305
50	61	316
100	64	331

Station Name Fishpole Lake
 Elevation 9300 ft
 Location Latitude 43.65 Longitude -113.85
 NOB 49

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	41	212
25	42	219
30	43	225
50	46	241
100	50	261

Station Name Forty-Nine Meadows (Disc)
 Elevation 4830 ft
 Location Latitude 47.1 Longitude -115.88333
 NOB 57

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	51	264
25	52	271
30	53	277
50	56	293
100	60	314

Station Name Fourth Of July Summit
 Elevation 3200 ft
 Location Latitude Longitude
 47.61667 -116.51667
 NOB 71

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	88
25	17	89
30	17	90
50	18	93
100	18	96

Station Name Franklin Basin (Disc)
 Elevation 8040 ft
 Location Latitude Longitude
 42.05 -111.61667
 NOB 91

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	42	220
25	44	227
30	45	232
50	47	246
100	51	264

Station Name Galena (Disc)
 Elevation 7440 ft
 Location Latitude Longitude
 43.88333 -114.66667
 NOB 77

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	32	166
25	33	172
30	34	176
50	36	188
100	39	204

Station Name Galena Summit (Disc)
 Elevation 8780 ft
 Location Latitude Longitude
 43.85 -114.71667
 NOB 66

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	37	191
25	37	194
30	38	197
50	39	204
100	41	212

Station Name Garfield R.S. (Disc)
 Elevation 6560 ft
 Location Latitude Longitude
 43.61667 -113.93333
 NOB 62

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	15	80
25	16	81
30	16	82
50	16	84
100	17	86

Station Name Giveout (Disc)
 Elevation 6930 ft
 Location Latitude Longitude
 42.41667 -111.16667
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	89
25	18	92
30	18	94
50	19	101
100	21	109

Station Name Giveout Old (Disc)
 Elevation 6840 ft
 Location Latitude Longitude
 42.41667 -111.16667
 NOB 31

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	21	107
25	21	110
30	22	112
50	23	118
100	24	124

Station Name Goat Lake (Disc)
 Elevation 6500 ft
 Location Latitude Longitude
 46.66667 -114.81667
 NOB 30

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	67	348
25	68	353
30	69	357
50	71	367
100	73	378

Station Name Graham Guard Station (Disc)
 Elevation 5690 ft
 Location Latitude Longitude
 43.95 -115.26667
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	24	123
25	24	126
30	25	128
50	26	134
100	27	141

Station Name Graham Ranch (Disc)
 Elevation 6270 ft
 Location Latitude Longitude
 43.78333 -114.41667
 NOB 65

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	21	109
25	21	111
30	21	112
50	22	114
100	22	116

Station Name Granite Peak (Disc)
 Elevation 6000 ft
 Location Latitude Longitude
 47.01667 -115.45
 NOB 38

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	67	346
25	69	356
30	70	364
50	74	386
100	80	414

Station Name Hahn Homestead
 Elevation 7500 ft
 Location Latitude Longitude
 44.35 -113.23333
 NOB 11

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	10	50
25	10	51
30	10	52
50	11	56
100	12	60

Station Name Hall Creek (Disc)
 Elevation 7560 ft
 Location Latitude Longitude
 44.75 -113.18333
 NOB 25

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	10	52
25	10	53
30	11	55
50	11	58
100	12	62

Station Name Hemlock Butte (Disc)
 Elevation 5810 ft
 Location Latitude Longitude
 46.48333 -115.63333
 NOB 55

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	72	373
25	74	383
30	75	391
50	79	412
100	85	440

Station Name Hidden Lake
 Elevation 5040 ft
 Location Latitude Longitude
 48.8937 -116.757548
 NOB 15

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	48	247
25	48	247
30	48	248
50	48	248
100	48	248

Station Name Hilts Creek (Disc)
 Elevation 8000 ft
 Location Latitude Longitude
 44.01667 -113.46667
 NOB 36

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	20	104
25	21	107
30	21	111
50	23	119
100	25	132

Station Name Horseshoe Basin (Disc)
 Elevation 8000 ft
 Location Latitude Longitude
 42.25 -111.6
 NOB 27

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	42	217
25	42	220
30	43	221
50	43	226
100	44	230

Station Name Howell Canyon (Disc)
 Elevation 7980 ft
 Location Latitude Longitude
 42.31667 -113.61667
 NOB 66

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	43	225
25	45	232
30	45	236
50	48	249
100	51	265

Station Name Humboldt Gulch (Disc)
 Elevation 4250 ft
 Location Latitude Longitude
 47.53333 -115.78333
 NOB 49

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	24	124
25	24	127
30	25	129
50	26	136
100	27	143

Station Name Hyde Pasture Am (Disc)
 Elevation 5760 ft
 Location Latitude Longitude
 42.68333 -116.61667
 NOB 30

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	13	70
25	14	73
30	14	75
50	16	82
100	17	91

Station Name Hyndman (Disc)
 Elevation 7440 ft
 Location Latitude Longitude
 43.7 -114.16667
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	21	111
25	22	114
30	22	116
50	23	122
100	25	129

Station Name Idaho City Townsite (Disc)
 Elevation 4000 ft
 Location Latitude Longitude
 43.83333 -115.83333
 NOB 10

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	10	50
25	10	52
30	10	54
50	11	58
100	12	63

Station Name Indian Grove (Disc)
 Elevation 7560 ft
 Location Latitude Longitude
 42.11667 -113.73333
 NOB 13

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	22	113
25	22	117
30	23	120
50	25	128
100	27	139

Station Name Iron Bog (Disc)
 Elevation 7650 ft
 Location Latitude Longitude
 43.66667 -113.81667
 NOB 32

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	23	121
25	24	125
30	24	127
50	26	135
100	28	143

Station Name Iron Mine Creek
 Elevation 6300 ft
 Location Latitude Longitude
 43.55 -113.71667
 NOB 57

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	89
25	18	92
30	18	94
50	19	100
100	21	107

Station Name Irving Creek
 Elevation 7280 ft
 Location Latitude Longitude
 44.43333 -112.6
 NOB 55

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	9	45
25	9	46
30	9	47
50	9	49
100	10	52

Station Name Island Park (Disc)
 Elevation 6290 ft
 Location Latitude Longitude
 44.41667 -111.38333
 NOB 77

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	24	126
25	25	129
30	25	132
50	27	138
100	28	146

Station Name Jackson Peak (Disc)
 Elevation 7070 ft
 Location Latitude Longitude
 44.05 -115.45
 NOB 65

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	47	245
25	48	249
30	49	253
50	50	262
100	52	273

Station Name Jakes Canyon
 Elevation 9040 ft
 Location Latitude Longitude
 44.78333 -113.35
 NOB 29

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	89
25	18	91
30	18	93
50	19	99
100	20	106

Station Name Johnson Creek
 Elevation 6730 ft
 Location Latitude Longitude
 42.66667 -111.43333
 NOB 35

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	95
25	19	97
30	19	99
50	20	104
100	21	111

Station Name Kellogg Peak
 Elevation 5560 ft
 Location Latitude Longitude
 47.5 -116.11667
 NOB 76

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	37	191
25	37	191
30	37	191
50	37	191
100	37	191

Station Name Ketchum R S
 Elevation 5890 ft
 Location Latitude Longitude
 43.68333 -114.35
 NOB 12

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	12	64
25	13	66
30	13	68
50	14	74
100	16	82

Station Name Kilgore
 Elevation 6320 ft
 Location Latitude Longitude
 44.4 -111.9
 NOB 78

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	86
25	17	87
30	17	89
50	18	93
100	19	97

Station Name Kit Carson Pasture
 Elevation 4950 ft
 Location Latitude Longitude
 45.7 -114.61667
 NOB 76

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	13	68
25	13	70
30	14	71
50	14	74
100	15	78

Station Name Lake Fork
 Elevation 5290 ft
 Location Latitude Longitude
 44.91667 -115.95
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	24	124
25	24	127
30	25	129
50	26	135
100	27	142

Station Name Langford Flat Creek
 Elevation 5980 ft
 Location Latitude Longitude
 42.13333 -114.38333
 NOB 56

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	13	67
25	13	70
30	14	72
50	15	77
100	16	84

Station Name Latham Springs
 Elevation 7630 ft
 Location Latitude Longitude
 44.46667 -111.15
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	47	242
25	48	248
30	49	253
50	51	265
100	54	281

Station Name Lava Creek
 Elevation 7350 ft
 Location Latitude Longitude
 43.3 -111.51667
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	23	117
25	23	119
30	23	121
50	24	125
100	25	129

Station Name Leadbelt (Disc)
 Elevation 6700 ft
 Location Latitude Longitude
 43.63333 -113.71667
 NOB 34

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	85
25	17	88
30	17	91
50	19	97
100	20	105

Station Name Leatherman Pass (Disc)
 Elevation 9860 ft
 Location Latitude Longitude
 44.08333 -113.75
 NOB 33

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	36	190
25	37	194
30	38	197
50	40	206
100	42	217

Station Name Liberty Spring (Disc)
 Elevation 8600 ft
 Location Latitude Longitude
 42.3 -111.58333
 NOB 32

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	65	339
25	67	346
30	68	351
50	70	365
100	73	381

Station Name Little Beaver (Disc)
 Elevation 6970 ft
 Location Latitude Longitude
 42.43333 -111.18333
 NOB 31

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	25	128
25	25	131
30	26	133
50	27	139
100	28	146

Station Name Little Camas Flat
 Elevation 4940 ft
 Location Latitude Longitude
 43.33333 -115.4
 NOB 52

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	12	64
25	13	65
30	13	66
50	13	70
100	14	73

Station Name Logger Springs
 Elevation 8120 ft
 Location Latitude Longitude
 42.15 -113.73333
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	143
25	28	147
30	29	150
50	30	158
100	32	168

Station Name Lolo Pass (Disc)
 Elevation 5240 ft
 Location Latitude Longitude
 46.63333 -114.58333
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	48	252
25	51	263
30	52	272
50	57	295
100	62	325

Station Name Long Valley
 Elevation 4890 ft
 Location Latitude Longitude
 44.78835 -116.08878
 NOB 14

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	13	66
25	13	69
30	14	71
50	15	77
100	16	84

Station Name Lookout (Disc)
 Elevation 5140 ft
 Location Latitude Longitude
 47.45 -115.7
 NOB 73

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	51	265
25	52	271
30	53	276
50	56	289
100	59	306

Station Name Lost Garfield (Disc)
 Elevation 6600 ft
 Location Latitude Longitude
 44.31667 -113.33333
 NOB 30

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	6	31
25	6	31
30	6	32
50	6	32
100	6	32

Station Name Lost Lake (Disc)
 Elevation 6110 ft
 Location Latitude Longitude
 47.08333 -115.96667
 NOB 53

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	85	441
25	87	453
30	89	462
50	94	487
100	100	519

Station Name Lost-Wood Divide (Disc)
 Elevation 7900 ft
 Location Latitude Longitude
 43.83333 -114.26667
 NOB 66

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	38	196
25	39	202
30	40	206
50	42	218
100	45	233

Station Name Lower Elkhorn (Disc)
 Elevation 6960 ft
 Location Latitude Longitude
 42.35 -112.3
 NOB 32

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	23	119
25	24	123
30	24	126
50	26	133
100	27	142

Station Name Lower Home Canyon (Disc)
 Elevation 7640 ft
 Location Latitude 42.38333 Longitude -111.21667
 NOB 31

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	22	114
25	22	117
30	23	119
50	24	124
100	25	131

Station Name Lower Pebble
 Elevation 5780 ft
 Location Latitude 42.73333 Longitude -112.05
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	20	104
25	20	106
30	21	108
50	22	113
100	23	120

Station Name Lower Sands Creek #2
 Elevation 3120 ft
 Location Latitude 47.73333 Longitude -116.48333
 NOB 77

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	32	166
25	33	170
30	33	173
50	35	180
100	36	187

Station Name Lucky Dog
 Elevation 6860 ft
 Location Latitude Longitude
 44.48333 -111.21667
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	35	181
25	35	184
30	36	186
50	37	191
100	38	198

Station Name Magic Mountain (Disc)
 Elevation 6880 ft
 Location Latitude Longitude
 42.18333 -114.3
 NOB 72

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	30	156
25	31	160
30	31	162
50	33	170
100	35	180

Station Name Mann Creek (Disc)
 Elevation 6080 ft
 Location Latitude Longitude
 44.61667 -116.96667
 NOB 30

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	39	202
25	40	206
30	40	209
50	42	217
100	44	227

Station Name Mascot Mine (Disc)
 Elevation 7780 ft
 Location Latitude Longitude
 43.7 -114.1
 NOB 57

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	22	116
25	23	117
30	23	118
50	23	119
100	23	120

Station Name Mc Renolds Reservoir
 Elevation 6720 ft
 Location Latitude Longitude
 43.96667 -111.06667
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	140
25	28	144
30	28	148
50	30	156
100	32	168

Station Name Mccall U Of I Campus
 Elevation 5020 ft
 Location Latitude Longitude
 44.93333 -116.08333
 NOB 7

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	26	134
25	27	142
30	28	148
50	32	167
100	37	195

Station Name Meadow Lake (Disc)
 Elevation 9150 ft
 Location Latitude Longitude
 44.43333 -113.31667
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	29	149
25	29	151
30	29	153
50	30	158
100	31	163

Station Name Mesa Ditch
 Elevation 3450 ft
 Location Latitude Longitude
 44.63333 -116.36666
 NOB 10

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	11	58
25	12	62
30	13	66
50	15	77
100	18	93

Station Name Mica Creek
 Elevation 4510 ft
 Location Latitude Longitude
 47.15083 -116.26694
 NOB 25

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	36	188
25	37	190
30	37	191
50	37	195
100	38	197

Station Name Mill Creek Summit (Disc)
 Elevation 8800 ft
 Location Latitude Longitude
 44.46667 -114.46667
 NOB 78

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	35	181
25	36	185
30	36	189
50	38	198
100	40	209

Station Name Mink Creek (Disc)
 Elevation 6410 ft
 Location Latitude Longitude
 42.76667 -112.48333
 NOB 48

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	28	146
25	29	150
30	29	153
50	31	161
100	33	170

Station Name Montpelier Creek (Disc)
 Elevation 6540 ft
 Location Latitude Longitude
 42.36667 -111.16667
 NOB 31

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	13	70
25	14	71
30	14	72
50	14	74
100	15	76

Station Name Moonshine (Disc)
 Elevation 7440 ft
 Location Latitude Longitude
 44.41667 -113.41667
 NOB 58

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	81
25	16	82
30	16	83
50	17	86
100	17	89

Station Name Moores Creek Summit
 Elevation 6100 ft
 Location Latitude Longitude
 43.91667 -115.66667
 NOB 82

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	50	258
25	51	263
30	51	268
50	54	279
100	56	291

Station Name Moose Creek (Disc)
 Elevation 6200 ft
 Location Latitude Longitude
 45.66667 -113.95
 NOB 78

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	25	130
25	26	133
30	26	135
50	27	142
100	29	149

Station Name Mores Creek Summit
 Elevation 6100 ft
 Location Latitude Longitude
 43.932 -115.66588
 NOB 34

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	48	249
25	49	253
30	49	256
50	51	264
100	52	272

Station Name Morgan Creek (Disc)
 Elevation 7600 ft
 Location Latitude Longitude
 44.85 -114.26667
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	22	113
25	22	117
30	23	120
50	25	130
100	28	143

Station Name Morse Creek Sawmill
 Elevation 7120 ft
 Location Latitude Longitude
 44.65 -113.76667
 NOB 44

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	12	63
25	12	64
30	12	65
50	13	67
100	13	70

Station Name Moscow Mountain
 Elevation 4410 ft
 Location Latitude Longitude
 46.81667 -116.88333
 NOB 57

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	26	136
25	26	137
30	26	137
50	27	138
100	27	139

Station Name Mosquito Ridge (Disc)
 Elevation 5200 ft
 Location Latitude Longitude
 48.05 -116.23333
 NOB 78

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	54	280
25	55	286
30	56	290
50	58	301
100	60	314

Station Name Mount Baldy
 Elevation 8920 ft
 Location Latitude Longitude
 43.66667 -114.4
 NOB 66

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	34	178
25	35	182
30	36	186
50	37	195
100	39	205

Station Name Mountain Meadows (Disc)
 Elevation 6360 ft
 Location Latitude Longitude
 45.7 -115.23333
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	38	195
25	39	202
30	40	207
50	43	222
100	46	242

Station Name Mud Creek
 Elevation 7100 ft
 Location Latitude Longitude
 43.28333 -111.88333
 NOB 41

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	31	159
25	31	160
30	31	161
50	31	163
100	32	165

Station Name Mud Flat (Disc)
 Elevation 5730 ft
 Location Latitude Longitude
 42.6 -116.55
 NOB 56

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	11	57
25	11	58
30	11	58
50	12	60
100	12	61

Station Name Mud Spring
 Elevation 5600 ft
 Location Latitude Longitude
 43.2 -114.66666
 NOB 11

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	9	46
25	9	47
30	9	48
50	10	50
100	10	52

Station Name Muldoon
 Elevation 6320 ft
 Location Latitude Longitude
 43.56667 -113.91667
 NOB 62

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	11	59
25	12	61
30	12	62
50	13	65
100	13	69

Station Name Myrtle Creek
 Elevation 3520 ft
 Location Latitude Longitude
 48.72263 -116.46312
 NOB 12

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	8	44
25	9	45
30	9	45
50	9	47
100	9	49

Station Name North Crane Creek
 Elevation 4419 ft
 Location Latitude Longitude
 44.31667 -116.4
 NOB 15

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	5	27
25	6	29
30	6	30
50	6	33
100	7	38

Station Name North Putnam (Disc)
 Elevation 7240 ft
 Location Latitude Longitude
 42.96667 -112.15
 NOB 11

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	48	251
25	51	263
30	52	272
50	58	299
100	64	335

Station Name Oxford Mountain (Disc)
 Elevation 6800 ft
 Location Latitude Longitude
 42.26667 -112.13333
 NOB 37

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	82
25	16	84
30	16	86
50	17	89
100	18	93

Station Name Oxford Spring (Disc)
 Elevation 6740 ft
 Location Latitude Longitude
 42.26667 -112.13333
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	94
25	18	96
30	19	98
50	20	103
100	21	109

Station Name Packsaddle Spring
 Elevation 8200 ft
 Location Latitude Longitude
 43.71667 -111.35
 NOB 34

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	42	217
25	43	223
30	44	228
50	46	241
100	50	259

Station Name Pebble Creek
 Elevation 6400 ft
 Location Latitude Longitude
 42.76667 -112.1
 NOB 70

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	23	121
25	24	123
30	24	125
50	25	129
100	26	135

Station Name Perreau Meadows
 Elevation 8500 ft
 Location Latitude Longitude
 45.13333 -114.06667
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	25	128
25	25	132
30	26	134
50	27	142
100	29	153

Station Name Pierce Ranger Station
 Elevation 3080 ft
 Location Latitude Longitude
 46.5 -115.8
 NOB 64

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	84
25	16	85
30	17	86
50	17	88
100	17	90

Station Name Pine Creek Pass (Disc)
 Elevation 6720 ft
 Location Latitude Longitude
 43.56667 -111.21667
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	25	129
25	25	132
30	26	134
50	27	140
100	28	147

Station Name Placer Creek
 Elevation 5860 ft
 Location Latitude Longitude
 44.81667 -116.7
 NOB 77

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	138
25	27	141
30	28	143
50	29	148
100	30	154

Station Name Prairie (Disc)
 Elevation 4800 ft
 Location Latitude Longitude
 43.5 -115.58333
 NOB 63

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	11	58
25	12	60
30	12	62
50	13	65
100	13	70

Station Name Putnam (Disc)
 Elevation 7220 ft
 Location Latitude Longitude
 42.93333 -112.1
 NOB 13

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	32	166
25	33	171
30	34	176
50	36	188
100	39	203

Station Name Ragged Mountain
 Elevation 4200 ft
 Location Latitude Longitude
 47.85 -117.03333
 NOB 29

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	36	187
25	37	193
30	38	198
50	40	210
100	43	226

Station Name Rattlesnake Spring
 Elevation 3950 ft
 Location Latitude Longitude
 43.2 -115.55
 NOB 6

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	3	17
25	4	19
30	4	20
50	5	26
100	7	35

Station Name Red Canyon AM
 Elevation 6600 ft
 Location Latitude Longitude
 42.42817 -116.84653
 NOB 52

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	13	69
25	14	71
30	14	71
50	14	73
100	14	75

Station Name Redfish Lake Flat (Disc)
 Elevation 6560 ft
 Location Latitude Longitude
 44.15 -114.91667
 NOB 30

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	20	103
25	20	105
30	21	107
50	22	113
100	23	120

Station Name Reynolds Creek
 Elevation 5600 ft
 Location Latitude Longitude
 43.28868 -116.84923
 NOB 14

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	19	97
25	21	110
30	23	121
50	31	159
100	43	225

Station Name Reynolds Mountain
 Elevation 6752 ft
 Location Latitude Longitude
 43.6666 -116.75
 NOB 45

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	36	186
25	37	191
30	38	196
50	40	208
100	43	223

Station Name Reynolds West Fork #1
 Elevation 6952 ft
 Location Latitude Longitude
 43.6666 -116.8
 NOB 45

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	41	214
25	42	220
30	43	225
50	45	237
100	48	251

Station Name Reynolds West Fork #2
 Elevation 6798 ft
 Location Latitude Longitude
 43.06667 -116.8
 NOB 45

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	40	206
25	41	212
30	42	216
50	44	228
100	47	243

Station Name Reynolds-Dobson Divide
 Elevation 7064 ft
 Location Latitude Longitude
 43.08333 -116.81667
 NOB 45

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	40	208
25	41	214
30	42	218
50	44	229
100	47	242

Station Name Road Creek (Disc)
 Elevation 5380 ft
 Location Latitude Longitude
 43.8 -115.53333
 NOB 50

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	19	97
25	19	99
30	19	101
50	20	107
100	22	113

Station Name Robinson Cr. Ridge (Disc)
 Elevation 6220 ft
 Location Latitude Longitude
 44.58333 -117.01667
 NOB 30

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	32	167
25	33	170
30	33	173
50	34	179
100	36	185

Station Name Rock Flat Summit (Disc)
 Elevation 5310 ft
 Location Latitude Longitude
 44.93333 -116.15
 NOB 46

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	143
25	28	145
30	28	146
50	29	150
100	30	154

Station Name Roland Summit
 Elevation 5120 ft
 Location Latitude Longitude
 47.4 -115.65
 NOB 56

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	57	298
25	59	305
30	60	310
50	62	323
100	65	339

Station Name Sage Creek Saddle
 Elevation 4080 ft
 Location Latitude Longitude
 47.86667 -116.58333
 NOB 50

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	28	143
25	28	144
30	28	145
50	28	147
100	28	148

Station Name Sandpoint Exp Stn
 Elevation 2100 ft
 Location Latitude Longitude
 48.28333 -116.56667
 NOB 13

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	7	38
25	8	40
30	8	43
50	9	49
100	11	59

Station Name Savage Pass (Disc)
 Elevation 6170 ft
 Location Latitude Longitude
 46.46667 -114.63333
 NOB 78

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	39	204
25	40	208
30	41	211
50	42	220
100	44	230

Station Name Sawmill Canyon (Disc)
 Elevation 7000 ft
 Location Latitude Longitude
 44.36667 -113.38333
 NOB 40

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	12	60
25	12	61
30	12	62
50	12	64
100	13	67

Station Name Sawtell Mountain (Disc)
 Elevation 8720 ft
 Location Latitude Longitude
 44.55 -111.43333
 NOB 32

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	54	278
25	54	281
30	55	284
50	56	290
100	57	296

Station Name Schwartz Lake
 Elevation 8540 ft
 Location Latitude Longitude
 44.85 -113.83333
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	19	99
25	20	102
30	20	104
50	21	109
100	22	116

Station Name Schweitzer Basin (Disc)
 Elevation 6090 ft
 Location Latitude Longitude
 48.36667 -116.63333
 NOB 35

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	75	389
25	77	400
30	79	409
50	83	433
100	89	464

Station Name Schweitzer Bowl (Disc)
 Elevation 4800 ft
 Location Latitude Longitude
 48.36667 -116.63333
 NOB 30

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	45	233
25	46	239
30	47	244
50	50	258
100	53	275

Station Name Schweitzer Ridge (Disc)
 Elevation 6200 ft
 Location Latitude Longitude
 48.36667 -116.63333
 NOB 31

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	67	346
25	67	351
30	68	355
50	70	364
100	72	375

Station Name Schweitzer Saddle
 Elevation 6110 ft
 Location Latitude Longitude
 48.37442 -116.63845
 NOB 7

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	62	322
25	62	324
30	63	325
50	63	328
100	64	331

Station Name Secesh Summit (Disc)
 Elevation 6520 ft
 Location Latitude Longitude
 45.18333 -115.96667
 NOB 63

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	52	270
25	53	275
30	54	279
50	56	289
100	58	300

Station Name Sedgwick Peak (Disc)
 Elevation 7850 ft
 Location Latitude Longitude
 42.53333 -111.96667
 NOB 35

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	30	153
25	30	158
30	31	162
50	33	172
100	36	185

Station Name Shanghi Summit (Disc)
 Elevation 4570 ft
 Location Latitude Longitude
 46.56667 -115.75
 NOB 77

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	41	213
25	42	218
30	42	221
50	44	229
100	46	237

Station Name Sheep Mountain (Disc)
 Elevation 6570 ft
 Location Latitude Longitude
 43.21667 -111.68333
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	19	100
25	20	102
30	20	104
50	21	107
100	21	111

Station Name Sherwin (Disc)
 Elevation 3200 ft
 Location Latitude Longitude
 46.95 -116.33333
 NOB 60

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	21	111
25	22	115
30	23	118
50	24	125
100	26	135

Station Name Shirts Creek
 Elevation 4425 ft
 Location Latitude Longitude
 44.41667 -116.43333
 NOB 17

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	6	29
25	6	30
30	6	31
50	7	34
100	7	38

Station Name Shoshone Basin (Disc)
 Elevation 5810 ft
 Location Latitude Longitude
 42.18333 -114.4
 NOB 34

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	13	69
25	14	72
30	14	74
50	15	80
100	17	86

Station Name Silver City
 Elevation 6400 ft
 Location Latitude Longitude
 43 -116.73333
 NOB 70

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	26	133
25	26	136
30	26	138
50	27	142
100	28	147

Station Name Skitwish Ridge
 Elevation 4850 ft
 Location Latitude Longitude
 47.71667 -116.5
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	52	268
25	53	275
30	54	280
50	56	293
100	60	310

Station Name Slug Creek Divide (Disc)
 Elevation 7225 ft
 Location Latitude Longitude
 42.56667 -111.3
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	25	131
25	26	135
30	26	138
50	28	145
100	30	156

Station Name Smiley Mountain
 Elevation 9520 ft
 Location Latitude Longitude
 43.72718 -113.83402
 NOB 14

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	25	128
25	25	128
30	25	128
50	25	128
100	25	128

Station Name Smith Creek
 Elevation 4800 ft
 Location Latitude Longitude
 48.86667 -116.75
 NOB 74

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	66	344
25	68	352
30	69	358
50	72	374
100	76	395

Station Name Soldier R.S. (Disc)
 Elevation 5740 ft
 Location Latitude Longitude
 43.48333 -114.81667
 NOB 76

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	19	97
25	19	99
30	19	100
50	20	103
100	21	107

Station Name Somsen Ranch (Disc)
 Elevation 6800 ft
 Location Latitude Longitude
 42.95 -111.36667
 NOB 75

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	20	103
25	20	106
30	21	108
50	22	114
100	23	121

Station Name South Mountain (Disc)
 Elevation 6500 ft
 Location Latitude Longitude
 42.76667 -116.9
 NOB 75

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	23	119
25	23	120
30	23	121
50	24	124
100	24	126

Station Name Spring Mountain Canyon
 Elevation 8800 ft
 Location Latitude Longitude
 44.35 -113.25
 NOB 11

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	19	101
25	20	104
30	20	106
50	21	112
100	23	119

Station Name Squaw Flat (Disc)
 Elevation 6240 ft
 Location Latitude Longitude
 44.76667 -116.25
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	37	193
25	38	197
30	39	200
50	40	208
100	42	218

Station Name Squaw Meadow
 Elevation 5900 ft
 Location Latitude Longitude
 45.15 -116
 NOB 77

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	51	265
25	52	269
30	52	272
50	54	281
100	56	290

Station Name State Line
 Elevation 6660 ft
 Location Latitude Longitude
 43.55 -111.05
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	23	117
25	23	120
30	24	123
50	25	130
100	27	138

Station Name Stickney Mill (Disc)
 Elevation 7430 ft
 Location Latitude Longitude
 43.86667 -114.21667
 NOB 77

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	15	78
25	15	80
30	16	82
50	17	86
100	18	92

Station Name Strawberry Creek
 Elevation 5820 ft
 Location Latitude Longitude
 42.31 -111.669
 NOB 60

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	83
25	16	84
30	16	85
50	17	87
100	17	90

Station Name Strawberry Mink Div.
 (Disc)
 Elevation 6720 ft
 Location Latitude Longitude
 42.3 -111.61667
 NOB 37

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	32	166
25	32	168
30	33	170
50	34	175
100	35	180

Station Name Sturgill Ridge (Disc)
 Elevation 6680 ft
 Location Latitude Longitude
 44.6 -115.95
 NOB 24

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	48	250
25	49	256
30	50	261
50	52	273
100	55	287

Station Name Sublett
 Elevation 5950 ft
 Location Latitude Longitude
 42.38333 -112.96667
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	91
25	18	94
30	18	95
50	19	100
100	20	105

Station Name Succor Creek AM
 Elevation 6310 ft
 Location Latitude Longitude
 43.11658 -116.87715
 NOB 52

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	86
25	17	89
30	18	91
50	19	96
100	20	103

Station Name Sulphur Peak (Disc)
 Elevation 7070 ft
 Location Latitude Longitude
 42.65 -111.45
 NOB 12

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	22	117
25	23	120
30	24	122
50	25	129
100	27	138

Station Name Sunset (Disc)
 Elevation 5540 ft
 Location Latitude Longitude
 47.55 -115.81667
 NOB 86

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	45	232
25	45	236
30	46	240
50	48	249
100	50	259

Station Name Swede Peak (Disc)
 Elevation 7640 ft
 Location Latitude Longitude
 43.61667 -113.96667
 NOB 57

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	143
25	29	148
30	29	153
50	32	165
100	35	181

Station Name Targhee Pass (Disc)
 Elevation 6980 ft
 Location Latitude Longitude
 44.66667 -111.28333
 NOB 29

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	25	129
25	26	133
30	26	135
50	27	142
100	29	150

Station Name Telfer Ranch
 Elevation 5840 ft
 Location Latitude Longitude
 43.53333 -113.76667
 NOB 62

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	13	66
25	13	67
30	13	68
50	14	70
100	14	73

Station Name Tex Creek (Disc)
 Elevation 6650 ft
 Location Latitude Longitude
 43.36667 -111.58333
 NOB 34

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	14	75
25	15	76
30	15	77
50	15	80
100	16	83

Station Name Thorson Cabin
 Elevation 5320 ft
 Location Latitude Longitude
 44.56667 -117
 NOB 50

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	24	122
25	24	126
30	25	128
50	26	135
100	28	144

Station Name Thorson Cabin #2
 Elevation 5100 ft
 Location Latitude Longitude
 44.55 -117
 NOB 7

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	19	101
25	21	107
30	22	112
50	24	127
100	29	148

Station Name Tollgate
 Elevation 4590 ft
 Location Latitude Longitude
 43.23333 -115.58333
 NOB 14

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	5	27
25	5	28
30	6	29
50	6	32
100	7	36

Station Name Toponce (Disc)
 Elevation 6160 ft
 Location Latitude Longitude
 42.86667 -112.08333
 NOB 14

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	22	116
25	23	120
30	24	122
50	25	129
100	27	138

Station Name Trinity Mountain (Disc)
 Elevation 7770 ft
 Location Latitude Longitude
 43.63333 -115.43333
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	58	302
25	58	304
30	59	305
50	59	308
100	60	310

Station Name Tripod Summit
 Elevation 5260 ft
 Location Latitude Longitude
 44.28333 -116.13333
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	143
25	28	146
30	28	148
50	30	154
100	31	161

Station Name Twin Peaks (Disc)
 Elevation 9190 ft
 Location Latitude Longitude
 44.6 -114.46667
 NOB 31

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	41	213
25	42	218
30	43	221
50	44	231
100	46	242

Station Name Twin Spirit Divide
 Elevation 3480 ft
 Location Latitude Longitude
 47.9 -117
 NOB 30

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	24	126
25	25	132
30	26	137
50	29	150
100	33	170

Station Name Twitchell Canyon (Disc)
 Elevation 6300 ft
 Location Latitude Longitude
 42.96667 -112.13333
 NOB 11

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	26	134
25	27	139
30	28	144
50	30	156
100	33	173

Station Name Upper Elkhorn
 Elevation 7140 ft
 Location Latitude Longitude
 42.34615 -112.31017
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	142
25	28	146
30	29	149
50	30	157
100	32	168

Station Name Upper Home Canyon
 Elevation 8560 ft
 Location Latitude Longitude
 42.41667 -111.23333
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	38	195
25	39	200
30	39	204
50	41	215
100	44	229

Station Name Valley View
 Elevation 6680 ft
 Location Latitude Longitude
 44.63333 -111.31667
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	25	131
25	26	135
30	26	138
50	28	146
100	30	156

Station Name Van Wyck
 Elevation 4920 ft
 Location Latitude Longitude
 44.36667 -116.33333
 NOB 19

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	92
25	19	96
30	19	100
50	21	108
100	23	120

Station Name Vaught Ranch AM
 Elevation 5850 ft
 Location Latitude Longitude
 42.49475 -116.43665
 NOB 49

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	13	67
25	13	70
30	14	72
50	15	80
100	17	89

Station Name Vienna Mine (Disc)
 Elevation 8960 ft
 Location Latitude Longitude
 43.8 -114.85
 NOB 63

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	58	299
25	59	306
30	60	312
50	63	326
100	66	344

Station Name War Eagle (Disc)
 Elevation 7720 ft
 Location Latitude Longitude
 42.96667 -116.7
 NOB 30

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	39	202
25	40	206
30	40	210
50	42	219
100	44	229

Station Name Webb Creek
 Elevation 4720 ft
 Location Latitude Longitude
 46.15 -116.76667
 NOB 34

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	14	72
25	14	75
30	15	77
50	16	84
100	18	93

Station Name Webber Creek
 Elevation 6700 ft
 Location Latitude Longitude
 44.35 -112.66667
 NOB 55

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	9	47
25	9	47
30	9	48
50	9	49
100	10	51

Station Name West Branch (Disc)
 Elevation 5560 ft
 Location Latitude Longitude
 45.06667 -116.43333
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	36	189
25	37	193
30	38	197
50	40	207
100	42	220

Station Name West Twin (Disc)
 Elevation 4220 ft
 Location Latitude Longitude
 46.81667 -116.91667
 NOB 33

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	21	107
25	21	110
30	22	113
50	23	120
100	25	128

Station Name Wet Creek Summit (Disc)
 Elevation 7680 ft
 Location Latitude Longitude
 44.01667 -113.46667
 NOB 40

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	21	108
25	21	111
30	22	113
50	23	118
100	24	124

Station Name Whiskey Flat (Disc)
 Elevation 6960 ft
 Location Latitude Longitude
 42.43333 -111.16667
 NOB 26

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	81
25	16	82
30	16	83
50	16	85
100	17	87

Station Name White Elephant (Disc)
 Elevation 7710 ft
 Location Latitude Longitude
 44.53333 -111.41667
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	42	219
25	43	225
30	44	229
50	46	241
100	49	256

Station Name Wildhorse Divide (Disc)
 Elevation 6490 ft
 Location Latitude Longitude
 42.75 -112.48333
 NOB 53

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	26	133
25	26	137
30	27	139
50	28	146
100	30	155

Station Name Williams Creek Smt. (Disc)
 Elevation 7990 ft
 Location Latitude Longitude
 45.1 -114.08333
 NOB 30

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	26	136
25	27	139
30	27	142
50	29	148
100	30	156

Station Name Willow Flat
 Elevation 6070 ft
 Location Latitude Longitude
 42.14033 -111.62667
 NOB 60

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	23	119
25	23	121
30	24	122
50	24	126
100	25	131

Station Name Wilson Creek
 Elevation 7120 ft
 Location Latitude Longitude
 42.01667 -115
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	22	116
25	23	119
30	23	121
50	24	127
100	26	134

Station Name Wood Canyon Divide
 (Disc)
 Elevation 7450 ft
 Location Latitude Longitude
 42.68333 -111.45
 NOB 12

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	28	148
25	29	153
30	30	158
50	33	170
100	36	186

Station Name Worm Creek
 Elevation 6620 ft
 Location Latitude Longitude
 42.1825 -111.67698
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	28	145
25	29	149
30	29	152
50	31	159
100	32	169

APPENDIX B: Idaho NWS Data

Station Name ABERDEEN EXP STN
 Elevation 4405 ft
 Location Latitude Longitude
 42.95361 -112.82528
 NOB 63

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	18	16
25	19	17
30	20	18
50	23	22
100	26	30

Station Name AMERICAN FALLS 3 NW
 Elevation 4415 ft
 Location Latitude Longitude
 42.85722 -112.88
 NOB 60

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	19	17
25	20	18
30	21	19
50	24	24
100	27	32

Station Name ANDERSON DAM
 Elevation 3882 ft
 Location Latitude Longitude
 43.35722 -115.45222
 NOB 58

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	42	67
25	44	71
30	45	74
50	48	81
100	52	91

Station Name ARBON
 Elevation 5210 ft
 Location Latitude Longitude
 42.50306 -112.57583
 NOB 30

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	39	61
25	42	66
30	43	70
50	48	81
100	54	95

Station Name ARROWROCK DAM
 Elevation 3235 ft
 Location Latitude Longitude
 43.59361 -115.92361
 NOB 60

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	33	46
25	34	50
30	36	53
50	39	61
100	44	72

Station Name ASHTON
 Elevation 5212 ft
 Location Latitude Longitude
 44.0425 -111.27389
 NOB 67

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	52	90
25	53	94
30	55	97
50	58	106
100	63	117

Station Name ATLANTA
 Elevation 5505 ft
 Location Latitude Longitude
 43.8 -115.13333
 NOB 15

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	72	139
25	73	141
30	74	143
50	76	147
100	78	152

Station Name AVERY RS
 Elevation 2490 ft
 Location Latitude Longitude
 47.25 -115.8
 NOB 52

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	13	12
25	13	12
30	14	12
50	14	13
100	15	14

Station Name BAYVIEW MODEL
 BASIN
 Elevation 2087 ft
 Location Latitude Longitude
 47.98028 -116.55944
 NOB 64

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	30	39
25	31	42
30	33	45
50	35	52
100	39	60

Station Name BIG CREEK
 Elevation 5682 ft
 Location Latitude Longitude
 45.13333 -115.31667
 NOB 22

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	53	93
25	53	93
30	53	93
50	53	93
100	53	93

Station Name BLACKFOOT
 Elevation 4536 ft
 Location Latitude Longitude
 43.19694 -112.35306
 NOB 42

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	20	18
25	21	19
30	22	21
50	26	29
100	30	39

Station Name BLISS
 Elevation 3275 ft
 Location Latitude Longitude
 42.95444 -115.01306
 NOB 66

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	19	18
25	21	19
30	22	21
50	26	30
100	32	42

Station Name BURLEY MUNI AP
 Elevation 4142 ft
 Location Latitude Longitude
 42.54167 -113.76611
 NOB 53

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	16	14
25	17	15
30	18	16
50	21	19
100	25	28

Station Name CABINET GORGE
 Elevation 2173 ft
 Location Latitude Longitude
 48.08639 -116.05722
 NOB 48

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	42	66
25	43	69
30	44	71
50	46	77
100	49	84

Station Name CALDWELL
 Elevation 2370 ft
 Location Latitude Longitude
 43.66667 -116.68333
 NOB 80

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	14	13
25	16	14
30	17	15
50	21	19
100	26	31

Station Name CAMBRIDGE
 Elevation 2650 ft
 Location Latitude Longitude
 44.57333 -116.67528
 NOB 61

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	40	62
25	41	66
30	42	68
50	45	74
100	48	81

Station Name CASCADE 1 NW
 Elevation 4896 ft
 Location Latitude Longitude
 44.52278 -116.04806
 NOB 67

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	43	70
25	44	73
30	45	74
50	47	79
100	49	84

Station Name CASTLEFORD 2 N
 Elevation 3825 ft
 Location Latitude Longitude
 42.55028 -114.86611
 NOB 43

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	18	17
25	21	18
30	22	21
50	28	35
100	38	58

Station Name CENTERVILLE
 ARBAUGH RC
 Elevation 4440 ft
 Location Latitude Longitude
 43.95917 -115.84528
 NOB 65

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	54	96
25	55	97
30	55	99
50	56	101
100	58	104

Station Name CHALLIS
 Elevation 5175 ft
 Location Latitude Longitude
 44.50361 -114.23972
 NOB 46

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	12	11
25	13	11
30	13	12
50	14	13
100	16	14

Station Name CHILLY BARTON FLAT
 Elevation 6260 ft
 Location Latitude Longitude
 43.97722 -113.82889
 NOB 56

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	14	12
25	14	13
30	15	13
50	17	15
100	19	17

Station Name CLARKIA
 Elevation 2822 ft
 Location Latitude Longitude
 47.01111 -116.25583
 NOB 15

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	55	99
25	58	105
30	60	109
50	65	121
100	72	138

Station Name COBALT
 Elevation 5008 ft
 Location Latitude Longitude
 45.08333 -114.23333
 NOB 23

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	29	36
25	29	36
30	29	36
50	29	36
100	29	36

Station Name COEUR D'ALENE
 Elevation 2133 ft
 Location Latitude Longitude
 47.68222 -116.79667
 NOB 88

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	33	47
25	36	52
30	37	56
50	42	68
100	50	85

Station Name CONDA
 Elevation 6204 ft
 Location Latitude Longitude
 42.71667 -111.55
 NOB 18

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	43	69
25	43	70
30	43	70
50	44	71
100	44	72

Station Name COTTONWOOD
 Elevation 3412 ft
 Location Latitude Longitude
 46.01667 -116.33333
 NOB 21

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	30	40
25	32	44
30	34	47
50	38	57
100	44	71

Station Name COUNCIL
 Elevation 2943 ft
 Location Latitude Longitude
 44.74417 -116.4325
 NOB 51

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	35	50
25	35	51
30	36	52
50	37	55
100	38	57

Station Name CRATERS OF THE MOON
 Elevation 5897 ft
 Location Latitude Longitude
 43.465 -113.55806
 NOB 57

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	63	116
25	64	120
30	66	123
50	69	130
100	72	139

Station Name DEADWOOD DAM
 Elevation 5384 ft
 Location Latitude Longitude
 44.31667 -115.63333
 NOB 46

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	73	140
25	73	140
30	73	140
50	73	140
100	73	140

Station Name DEER FLAT DAM
 Elevation 2510 ft
 Location Latitude Longitude
 43.57639 -116.7475
 NOB 34

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	10	9
25	10	9
30	11	10
50	12	11
100	14	13

Station Name DEER POINT
 Elevation 7044 ft
 Location Latitude Longitude
 43.75 -116.1
 NOB 17

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	81	159
25	81	160
30	81	160
50	82	161
100	82	162

Station Name DIXIE
 Elevation 5620 ft
 Location Latitude Longitude
 45.5525 -115.46056
 NOB 58

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	75	145
25	76	147
30	76	148
50	78	152
100	79	155

Station Name DRIGGS
 Elevation 6120 ft
 Location Latitude Longitude
 43.73056 -111.1125
 NOB 63

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	33	45
25	33	47
30	34	48
50	35	50
100	36	53

Station Name DUBOIS EXP ST
 Elevation 5450 ft
 Location Latitude Longitude
 44.24361 -112.20056
 NOB 84

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	30	40
25	31	42
30	32	43
50	33	47
100	35	52

Station Name DWORSHAK FISH
 HATCHERY
 Elevation 995 ft
 Location Latitude Longitude
 46.50222 -116.32167
 NOB 36

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	20	18
25	21	19
30	22	20
50	25	28
100	30	38

Station Name ELK CITY 1NE
 Elevation 4058 ft
 Location Latitude Longitude
 45.83556 -115.46111
 NOB 63

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	41	66
25	42	67
30	42	67
50	42	68
100	43	69

Station Name ELK RIVER 1 S
 Elevation 2918 ft
 Location Latitude Longitude
 46.77444 -116.17611
 NOB 63

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	66	124
25	68	129
30	70	133
50	74	143
100	80	156

Station Name EMMETT 2 E
 Elevation 2390 ft
 Location Latitude Longitude
 43.85444 -116.46639
 NOB 46

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	13	12
25	14	12
30	15	13
50	17	15
100	19	17

Station Name FAIRFIELD RS
 Elevation 5065 ft
 Location Latitude Longitude
 43.34278 -114.79
 NOB 54

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	43	70
25	43	70
30	43	70
50	44	71
100	44	71

Station Name FENN RS
 Elevation 1560 ft
 Location Latitude Longitude
 46.09306 -115.53556
 NOB 67

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	31	41
25	32	44
30	33	46
50	36	52
100	39	60

Station Name FT HALL 1 NNE
 Elevation 4465 ft
 Location Latitude Longitude
 43.04278 -112.41333
 NOB 67

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	19	17
25	20	18
30	21	18
50	22	21
100	25	26

Station Name GALENA
 Elevation 7300 ft
 Location Latitude Longitude
 43.87222 -114.65417
 NOB 19

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	103	210
25	106	219
30	109	226
50	118	246
100	130	274

Station Name GARDEN VALLEY
 Elevation 3100 ft
 Location Latitude Longitude
 44.10111 -115.96944
 NOB 65

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	33	45
25	33	46
30	33	46
50	33	46
100	33	47

Station Name GIBBONSVILLE
 Elevation 4480 ft
 Location Latitude Longitude
 45.53944 -113.9275
 NOB 43

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	53	92
25	53	94
30	54	95
50	55	98
100	56	100

Station Name GLENN'S FERRY
 Elevation 2466 ft
 Location Latitude Longitude
 42.94028 -115.32306
 NOB 39

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	15	13
25	16	14
30	16	15
50	19	17
100	22	20

Station Name GRACE
 Elevation 5550 ft
 Location Latitude Longitude
 42.58722 -111.7275
 NOB 62

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	35	50
25	36	53
30	37	56
50	40	62
100	43	70

Station Name GRAND VIEW 4 NW
 Elevation 2400 ft
 Location Latitude Longitude
 43.0175 -116.17722
 NOB 29

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	8	7
25	8	7
30	8	8
50	10	9
100	11	10

Station Name GRANGEVILLE
 Elevation 3300 ft
 Location Latitude Longitude
 45.94139 -116.1175
 NOB 67

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	17	16
25	17	16
30	18	16
50	18	16
100	18	16

Station Name GRANGEVILLE 11 SE
 Elevation 2250 ft
 Location Latitude Longitude
 45.83333 -115.93333
 NOB 25

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	21	19
25	22	20
30	23	22
50	25	27
100	28	35

Station Name GROUSE
 Elevation 6001 ft
 Location Latitude Longitude
 43.71861 -113.54722
 NOB 41

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	39	60
25	40	64
30	42	66
50	45	73
100	48	82

Station Name HAILEY 3 NNW
 Elevation 5424 ft
 Location Latitude Longitude
 43.56667 -114.33333
 NOB 43

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	46	77
25	47	79
30	47	80
50	49	84
100	51	88

Station Name HAMER 4 NW
 Elevation 4790 ft
 Location Latitude Longitude
 43.96639 -112.26417
 NOB 67

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	23	22
25	24	25
30	25	27
50	27	33
100	30	40

Station Name HAZELTON
 Elevation 4060 ft
 Location Latitude Longitude
 42.59722 -114.13778
 NOB 61

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	15	14
25	16	15
30	17	15
50	19	17
100	22	21

Station Name HEADQUARTERS
 Elevation 3200 ft
 Location Latitude Longitude
 46.63111 -115.80861
 NOB 51

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	56	101
25	57	103
30	58	105
50	60	110
100	62	115

Station Name HILL CITY
 Elevation 5100 ft
 Location Latitude Longitude
 43.29944 -115.07333
 NOB 76

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	52	90
25	53	94
30	54	96
50	57	103
100	60	111

Station Name HOLLISTER
 Elevation 4525 ft
 Location Latitude Longitude
 42.35278 -114.57389
 NOB 35

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	11	10
25	12	11
30	12	11
50	13	12
100	15	13

Station Name HOWE
 Elevation 4820 ft
 Location Latitude Longitude
 43.78278 -113.00333
 NOB 47

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	18	16
25	19	17
30	20	18
50	23	21
100	26	30

Station Name IDAHO CITY
 Elevation 3965 ft
 Location Latitude Longitude
 43.83833 -115.83194
 NOB 78

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	45	74
25	45	75
30	46	76
50	46	77
100	46	78

Station Name IDAHO FALLS 16 SE
 Elevation 5828 ft
 Location Latitude Longitude
 43.34556 -111.78472
 NOB 60

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	31	41
25	32	44
30	34	47
50	37	55
100	42	66

Station Name IDAHO FALLS 2 ESE
 Elevation 4742 ft
 Location Latitude Longitude
 43.51389 -112.0125
 NOB 48

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	20	18
25	20	18
30	21	19
50	23	22
100	25	26

Station Name IDAHO FALLS 46 W
 Elevation 4938 ft
 Location Latitude Longitude
 43.53167 -112.94222
 NOB 61

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	20	18
25	21	18
30	21	19
50	23	21
100	24	26

Station Name IDAHO FALLS FANNING
 FLD
 Elevation 4729 ft
 Location Latitude Longitude
 43.51639 -112.06722
 NOB 47

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	24	25
25	25	28
30	26	31
50	29	37
100	33	46

Station Name IRWIN 2 SE
 Elevation 5305 ft
 Location Latitude Longitude
 43.4 -111.3
 NOB 13

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	41	64
25	42	67
30	43	70
50	46	77
100	50	85

Station Name ISLAND PARK
 Elevation 6290 ft
 Location Latitude Longitude
 44.41889 -111.37139
 NOB 78

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	81	160
25	83	164
30	84	167
50	88	175
100	92	186

Station Name JEROME
 Elevation 3740 ft
 Location Latitude Longitude
 42.7325 -114.51917
 NOB 31

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	10	9
25	10	9
30	11	10
50	12	11
100	14	12

Station Name KELLOGG
 Elevation 2377 ft
 Location Latitude Longitude
 47.53389 -116.12222
 NOB 100

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	27	31
25	27	33
30	28	34
50	29	36
100	30	39

Station Name KILGORE
 Elevation 6155 ft
 Location Latitude Longitude
 44.4 -111.88333
 NOB 18

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	57	103
25	58	106
30	59	107
50	61	111
100	62	115

Station Name KOOSKIA
 Elevation 1280 ft
 Location Latitude Longitude
 46.15 -115.98333
 NOB 71

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	20	18
25	21	19
30	22	20
50	24	24
100	26	30

Station Name KUNA
 Elevation 2690 ft
 Location Latitude Longitude
 43.48333 -116.41667
 NOB 40

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	12	11
25	13	12
30	14	12
50	16	14
100	19	17

Station Name LEWISTON WSO AP First-Order Station
 Elevation 1440 ft
 Location Latitude Longitude
 46.3833 -117.0167
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Snow Depth (in)	Ground Snow Load (PSF)
20	1	12	7
25	2	13	8
30	2	14	8
50	2	16	9
100	2	19	11

Station Name LIFTON PUMPING STN
 Elevation 5935 ft
 Location Latitude Longitude
 42.12306 -111.31333
 NOB 75

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	25	26
25	26	28
30	26	30
50	28	35
100	31	41

Station Name LOWMAN 3E #2
 Elevation 3983 ft
 Location Latitude Longitude
 44.08333 -115.56667
 NOB 11

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	56	100
25	58	105
30	60	109
50	64	120
100	70	134

Station Name MACKAY LOST RIVER
 RS
 Elevation 5897 ft
 Location Latitude Longitude
 43.91806 -113.63167
 NOB 56

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	38	57
25	41	65
30	44	71
50	51	89
100	62	116

Station Name MALAD
 Elevation 4581 ft
 Location Latitude Longitude
 42.2 -112.26667
 NOB 32

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	44	72
25	48	81
30	51	89
50	60	111
100	74	143

Station Name MALAD CITY AP
 Elevation 4482 ft
 Location Latitude Longitude
 42.16667 -112.31667
 NOB 59

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	25	27
25	26	29
30	27	31
50	28	35
100	30	40

Station Name MALTA 4 ESE
 Elevation 4590 ft
 Location Latitude Longitude
 42.29167 -113.30417
 NOB 38

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	14	13
25	15	13
30	15	14
50	16	15
100	17	16

Station Name MAY 2SSE
 Elevation 5050 ft
 Location Latitude Longitude
 44.56639 -113.89528
 NOB 56

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	15	13
25	16	14
30	17	15
50	19	17
100	23	23

Station Name MCCALL
 Elevation 5025 ft
 Location Latitude Longitude
 44.88722 -116.10472
 NOB 85

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	48	80
25	48	80
30	48	80
50	48	80
100	48	80

Station Name MIDDLE FORK LODGE
 Elevation 4480 ft
 Location Latitude Longitude
 44.71889 -115.015
 NOB 42

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	23	23
25	24	25
30	25	27
50	27	32
100	30	38

Station Name MINIDOKA 10WNW
 Elevation 4290 ft
 Location Latitude Longitude
 42.78333 -113.66667
 NOB 19

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	14	12
25	15	13
30	15	14
50	18	16
100	22	20

Station Name MINIDOKA DAM
 Elevation 4164 ft
 Location Latitude Longitude
 42.67667 -113.50028
 NOB 56

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	17	15
25	18	16
30	18	17
50	21	19
100	24	25

Station Name MONTPELIER RS
 Elevation 5960 ft
 Location Latitude Longitude
 42.31667 -111.3
 NOB 61

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	30	38
25	30	40
30	31	41
50	32	45
100	34	49

Station Name MOSCOW U OF I
 Elevation 2660 ft
 Location Latitude Longitude
 46.72806 -116.95583
 NOB 88

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	27	32
25	28	35
30	29	37
50	31	42
100	34	48

Station Name MTN HOME
 Elevation 3140 ft
 Location Latitude Longitude
 43.12611 -115.71194
 NOB 41

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	12	11
25	13	11
30	13	12
50	15	13
100	17	16

Station Name MULLAN PASS
 Elevation 3586 ft
 Location Latitude Longitude
 47.46667 -115.76667
 NOB 14

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	65	121
25	67	126
30	68	130
50	73	140
100	79	154

Station Name NEW MEADOWS
 RANGER S
 Elevation 3862 ft
 Location Latitude Longitude
 44.97139 -116.29333
 NOB 67

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	47	78
25	48	81
30	49	83
50	51	89
100	54	97

Station Name NEZPERCE
 Elevation 3248 ft
 Location Latitude Longitude
 46.2325 -116.24306
 NOB 61

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	19	17
25	19	17
30	20	18
50	20	18
100	21	19

Station Name North Star Ranch
 Elevation 2800 ft
 Location Latitude Longitude
 45.91666667 -114.8333333
 NOB 23

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	30	38
25	31	41
30	32	43
50	34	48
100	37	55

Station Name OAKLEY
 Elevation 4559 ft
 Location Latitude Longitude
 42.23417 -113.89806
 NOB 77

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	13	12
25	14	13
30	15	14
50	18	16
100	22	20

Station Name OBSIDIAN 3 SSE
 Elevation 6873 ft
 Location Latitude Longitude
 44.03333 -114.83333
 NOB 15

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	51	89
25	52	92
30	53	94
50	55	99
100	58	105

Station Name OLA 4 S
 Elevation 2990 ft
 Location Latitude Longitude
 44.13333 -116.28333
 NOB 28

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	20	18
25	20	18
30	20	18
50	21	19
100	22	20

Station Name OROFINO
 Elevation 1320 ft
 Location Latitude Longitude
 46.48333 -116.26667
 NOB 29

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	19	17
25	19	17
30	20	18
50	21	19
100	22	21

Station Name PALISADES
 Elevation 5385 ft
 Location Latitude Longitude
 43.35 -111.21667
 NOB 46

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	35	51
25	36	52
30	36	54
50	38	57
100	39	60

Station Name PARMA EXP STN
 Elevation 2290 ft
 Location Latitude Longitude
 43.80222 -116.94417
 NOB 82

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	18	16
25	19	17
30	21	18
50	24	25
100	29	37

Station Name PAUL
 Elevation 4150 ft
 Location Latitude Longitude
 42.62833 -113.76222
 NOB 58

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	15	13
25	16	14
30	17	15
50	19	17
100	23	23

Station Name PAYETTE
 Elevation 2150 ft
 Location Latitude Longitude
 44.07639 -116.93111
 NOB 52

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	15	13
25	16	14
30	16	15
50	19	17
100	22	19

Station Name PICABO
 Elevation 4839 ft
 Location Latitude Longitude
 43.30861 -114.06667
 NOB 56

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	30	40
25	31	42
30	32	44
50	34	48
100	36	54

Station Name PIERCE
 Elevation 3080 ft
 Location Latitude Longitude
 46.49222 -115.80056
 NOB 52

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	64	120
25	67	125
30	68	130
50	74	142
100	81	158

Station Name PIERCE RS
 Elevation 3173 ft
 Location Latitude Longitude
 46.5 -115.8
 NOB 49

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	70	132
25	71	135
30	72	138
50	74	144
100	77	151

Station Name POCATELLO RGNL AP First-Order Station
 Elevation 4478 ft
 Location Latitude Longitude
 42.92028 -112.57111
 NOB 73

Return Period (Years)	Snow Water Equivalent (in)	Snow Depth (in)	Ground Snow Load (PSF)
20	2	16	18
25	4	17	21
30	4	17	23
50	6	19	30
100	8	22	43

Station Name PORTHILL
 Elevation 1799 ft
 Location Latitude Longitude
 48.99944 -116.49917
 NOB 67

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	36	54
25	38	59
30	40	63
50	45	75
100	52	92

Station Name POTLATCH 3 NNE
 Elevation 2760 ft
 Location Latitude Longitude
 46.96028 -116.855
 NOB 87

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	25	27
25	26	30
30	27	32
50	30	39
100	33	47

Station Name POWELL
 Elevation 3530 ft
 Location Latitude Longitude
 46.51 -114.71111
 NOB 47

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	67	126
25	68	129
30	69	132
50	72	137
100	74	144

Station Name PRESTON
 Elevation 4800 ft
 Location Latitude Longitude
 42.09333 -111.86833
 NOB 32

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	38	58
25	41	65
30	44	71
50	51	89
100	62	115

Station Name PRESTON SUGAR
 FACTOR
 Elevation 4724 ft
 Location Latitude Longitude
 42.06667 -111.85
 NOB 24

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	27	32
25	29	37
30	31	40
50	35	51
100	42	67

Station Name **PRIEST RIVER EXP STN**
 Elevation 2371 ft
 Location Latitude Longitude
 48.35111 -116.83528
 NOB 104

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	48	81
25	49	84
30	50	87
50	54	95
100	58	105

Station Name **REYNOLDS**
 Elevation 3930 ft
 Location Latitude Longitude
 43.20639 -116.74944
 NOB 34

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	8	8
25	9	8
30	9	8
50	10	9
100	11	10

Station Name **RICHFIELD**
 Elevation 4282 ft
 Location Latitude Longitude
 43.05278 -114.15806
 NOB 62

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	33	47
25	35	50
30	36	53
50	39	61
100	43	71

Station Name RIGGINS
 Elevation 1800 ft
 Location Latitude Longitude
 45.42389 -116.315
 NOB 50

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	12	11
25	14	13
30	15	14
50	20	18
100	28	34

Station Name RUPERT 3 WSW
 Elevation 4200 ft
 Location Latitude Longitude
 42.60417 -113.7575
 NOB 35

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	16	14
25	17	15
30	18	16
50	20	18
100	23	23

Station Name SAINT ANTHONY
 Elevation 4910 ft
 Location Latitude Longitude
 43.95167 -111.67889
 NOB 53

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	28	35
25	29	35
30	29	36
50	29	37
100	30	38

Station Name SAINT MARIES
 Elevation 2151 ft
 Location Latitude Longitude
 47.31639 -116.57889
 NOB 65

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	34	48
25	35	51
30	36	53
50	38	58
100	40	63

Station Name SALMON KSRA
 Elevation 3931 ft
 Location Latitude Longitude
 45.1875 -113.90083
 NOB 46

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	15	14
25	16	14
30	16	14
50	17	15
100	18	16

Station Name SALMON LEMHI CO AP
 Elevation 4044 ft
 Location Latitude Longitude
 45.11667 -113.88333
 NOB 38

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	14	13
25	15	13
30	15	14
50	17	15
100	19	17

Station Name SANDPOINT EXP STN
 Elevation 2126 ft
 Location Latitude Longitude
 48.29417 -116.56278
 NOB 104

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	37	55
25	38	57
30	38	58
50	40	61
100	41	65

Station Name SHOSHONE 1 WNW
 Elevation 3950 ft
 Location Latitude Longitude
 42.93833 -114.41694
 NOB 51

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	26	30
25	28	35
30	30	39
50	34	49
100	41	65

Station Name SHOUP
 Elevation 3400 ft
 Location Latitude Longitude
 45.37667 -114.2775
 NOB 38

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	25	28
25	26	29
30	26	29
50	26	30
100	27	31

Station Name SPENCER
 Elevation 5892 ft
 Location Latitude Longitude
 44.36056 -112.18639
 NOB 20

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	45	74
25	47	78
30	48	81
50	52	90
100	57	101

Station Name STANLEY
 Elevation 6260 ft
 Location Latitude Longitude
 44.22056 -114.93417
 NOB 46

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	58	105
25	61	111
30	63	116
50	68	128
100	73	141

Station Name STREVELL
 Elevation 5280 ft
 Location Latitude Longitude
 42.01667 -113.25
 NOB 36

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	19	17
25	20	18
30	20	18
50	22	19
100	23	23

Station Name SUGAR
 Elevation 4925 ft
 Location Latitude Longitude
 43.88667 -111.73667
 NOB 31

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	29	36
25	30	39
30	31	42
50	35	50
100	40	62

Station Name SUN VALLEY
 Elevation 5820 ft
 Location Latitude Longitude
 43.7 -114.35
 NOB 25

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	63	117
25	65	123
30	67	127
50	73	140
100	80	157

Station Name SWAN FALLS P H
 Elevation 2325 ft
 Location Latitude Longitude
 43.24361 -116.37833
 NOB 37

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	8	7
25	9	8
30	9	8
50	11	9
100	12	11

Station Name SWAN VALLEY
 Elevation 5397 ft
 Location Latitude Longitude
 43.43722 -111.27917
 NOB 31

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	31	41
25	32	44
30	33	45
50	34	49
100	37	54

Station Name Tensed (BENEWAH)
 Elevation 2560 ft
 Location Latitude Longitude
 47.167 -116.9167
 NOB 14

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	25	27
25	26	29
30	27	31
50	28	35
100	30	40

Station Name THREE CREEK
 Elevation 5460 ft
 Location Latitude Longitude
 42.08333 -115.15
 NOB 48

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	26	28
25	27	32
30	28	35
50	32	45
100	38	58

Station Name TWIN FALLS
 Elevation 3960 ft
 Location Latitude Longitude
 42.54583 -114.34611
 NOB 48

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	13	12
25	14	12
30	14	13
50	16	14
100	18	16

Station Name TWIN FALLS 2 NNE
 Elevation 3691 ft
 Location Latitude Longitude
 42.58333 -114.46667
 NOB 68

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	14	12
25	15	13
30	15	14
50	18	16
100	22	19

Station Name TWIN FALLS 3 SE
 Elevation 3773 ft
 Location Latitude Longitude
 42.53333 -114.41667
 NOB 30

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	9	8
25	10	9
30	10	9
50	11	10
100	12	10

Station Name WALLACE
 Elevation 2772 ft
 Location Latitude Longitude
 47.46667 -115.93333
 NOB 49

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	54	96
25	57	104
30	60	110
50	68	129
100	80	156

Station Name WALLACE WOODLAND
 PARK
 Elevation 2710 ft
 Location Latitude Longitude
 47.47528 -115.93139
 NOB 56

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	42	67
25	42	68
30	43	69
50	43	70
100	44	72

Station Name WARREN
 Elevation 5907 ft
 Location Latitude Longitude
 45.26583 -115.67889
 NOB 53

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	66	125
25	68	129
30	69	132
50	73	140
100	77	151

Station Name WEISER
 Elevation 2120 ft
 Location Latitude Longitude
 44.24556 -116.96972
 NOB 53

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	16	15
25	17	15
30	18	16
50	19	17
100	20	18

Station Name WINCHESTER
 Elevation 3972 ft
 Location Latitude Longitude
 46.23806 -116.62333
 NOB 50

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	33	45
25	34	48
30	35	51
50	38	58
100	42	67

Station Name YELLOW PINE 7 S
 Elevation 5100 ft
 Location Latitude Longitude
 44.85417 -115.51139
 NOB 37

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	49	85
25	50	87
30	51	88
50	53	93
100	55	97

APPENDIX C: Washington NRCS Data

Station Name Baird
 Elevation 3215
 Location Latitude Longitude
 48.61667 -117.56667
 NOB 32

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	10	52
25	10	52
30	10	52
50	10	52
100	10	52

Station Name Baird #2
 Elevation 3159
 Location Latitude Longitude
 48.6067 -117.55251
 NOB 21

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	13	66
25	13	68
30	14	70
50	15	76
100	16	84

Station Name Boulder Road (Disc)
 Elevation 1450
 Location Latitude Longitude
 48.83333 -118.18333
 NOB 21

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	9	48
25	10	50
30	10	52
50	11	56
100	12	61

Station Name Boyer Mountain
 Elevation 5250
 Location Latitude Longitude
 48.19273 -117.43277
 NOB 69

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	39	202
25	40	206
30	40	210
50	42	218
100	44	229

Station Name Bunchgrass Meadow
 Elevation 5000
 Location Latitude Longitude
 48.68333 -117.16667
 NOB 78

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	42	216
25	42	220
30	43	222
50	44	229
100	46	237

Station Name Butte Ck #2
 Elevation 4070
 Location Latitude Longitude
 48.85 -118.36667
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	13	70
25	14	72
30	14	73
50	15	77
100	16	81

Station Name Cabin Creek (Disc)
 Elevation 3170
 Location Latitude Longitude
 48.81667 -118.28333
 NOB 22

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	12	63
25	12	63
30	12	63
50	12	64
100	12	64

Station Name Carlson (Disc)
 Elevation 2885
 Location Latitude Longitude
 48.23333 -118.01667
 NOB 18

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	10	50
25	10	52
30	10	53
50	11	58
100	12	64

Station Name Chewelah
 Elevation 4925
 Location Latitude Longitude
 48.28333 -117.58333
 NOB 43

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	20	102
25	20	102
30	20	102
50	20	102
100	20	102

Station Name Chewelah 2
 Elevation 4925
 Location Latitude Longitude
 48.29644 -117.59376
 NOB 19

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	29	152
25	30	158
30	31	162
50	33	174
100	36	190

Station Name Goat Creek
 Elevation 3600
 Location Latitude Longitude
 48.847 -118.33128
 NOB 53

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	9	48
25	9	49
30	9	49
50	10	50
100	10	51

Station Name Homestead (Disc)
 Elevation 4030
 Location Latitude Longitude
 46.26667 -117.76667
 NOB 27

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	19	100
25	20	103
30	20	106
50	22	114
100	24	123

Station Name Martin Springs (Disc)
 Elevation 4400
 Location Latitude Longitude
 46.25 -117.76667
 NOB 18

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	26	137
25	27	139
30	27	140
50	27	142
100	28	144

Station Name Sherman Creek Pass (Disc)
 Elevation 5350
 Location Latitude Longitude
 48.61667 -118.48333
 NOB 45

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	23	118
25	23	122
30	24	124
50	25	131
100	27	139

Station Name Snow Caps Creek (Disc)
 Elevation 2150
 Location Latitude Longitude
 48.81667 -118.23333
 NOB 21

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	9	44
25	9	45
30	9	46
50	9	48
100	10	50

Station Name Snow Caps Trail (Disc)
 Elevation 2720
 Location Latitude Longitude
 48.8 -118.26667
 NOB 21

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	10	52
25	10	53
30	10	54
50	11	56
100	11	58

Station Name Stranger Mountain
 Elevation 4230
 Location Latitude Longitude
 48.16385 -117.97074
 NOB 39

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	20	105
25	21	107
30	21	108
50	22	113
100	23	117

Station Name Summit G.S.
 Elevation 4600
 Location Latitude Longitude
 48.9 -118.4
 NOB 43

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	12	63
25	12	65
30	13	66
50	13	68
100	14	72

Station Name Summit G.S. #2
 Elevation 4600
 Location Latitude Longitude
 48.86069 -118.39525
 NOB 28

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	13	66
25	13	67
30	13	68
50	14	71
100	14	75

Station Name Togo
 Elevation 3370
 Location Latitude Longitude
 48.04376 -118.07636
 NOB 50

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	92
25	18	94
30	18	95
50	19	98
100	19	100

Station Name Winchester Creek (Disc)
 Elevation 2970
 Location Latitude Longitude
 48.33333 -117.43333
 NOB 25

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	87
25	17	87
30	17	88
50	17	88
100	17	88

APPENDIX D: Washington NWS Data

Station Name ASOTIN 14 SW
 Elevation 3403 ft
 Location Latitude Longitude
 46.2039 -117.2472
 NOB 23

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	16	15
25	17	15
30	18	16
50	19	17
100	21	19

Station Name BOUNDARY DAM
 Elevation 1837 ft
 Location Latitude Longitude
 48.9947 -117.3544
 NOB 47

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	37	55
25	38	59
30	39	61
50	42	68
100	46	77

Station Name LACROSSE
 Elevation 1476 ft
 Location Latitude Longitude
 46.8167 -117.8831
 NOB 106

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	17	15
25	18	16
30	19	17
50	22	20
100	27	31

Station Name NORTHPORT
 Elevation 1477 ft
 Location Latitude Longitude
 48.8742 -117.8667
 NOB 104

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	31	41
25	32	44
30	33	45
50	35	50
100	38	57

Station Name PULLMAN 2
 NW
 Elevation 2515 ft
 Location Latitude Longitude
 46.7603 -117.1861
 NOB 61

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	18	16
25	19	17
30	20	18
50	22	20
100	24	26

Station Name ROSALIA
 Elevation 2405 ft
 Location Latitude Longitude
 47.2325 -117.3625
 NOB 112

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	23	22
25	25	26
30	26	29
50	30	40
100	37	55

Station Name SPOKANE
 INTL AP First-Order Station
 Elevation 2353 ft
 Location Latitude Longitude
 47.6217 -117.5281
 NOB 115

Return Period (Years)	Snow Water Equivalent (in)	Snow Depth (in)	Ground Snow Load (PSF)
20	6	24	25
25	6	26	29
30	6	27	32
50	8	30	40
100	9	35	52

Station Name SPOKANE
 WFO
 Elevation 2392 ft
 Location Latitude Longitude
 47.6811 -117.6267
 NOB 19

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	26	31
25	28	34
30	29	38
50	33	47
100	39	60

APPENDIX E: Montana NRCS Data

Station Name Abundance Lake
 Elevation 8800 ft
 Location Latitude Longitude
 45.58557 -113.00555
 NOB 52

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	36	186
25	37	192
30	38	197
50	40	210
100	44	228

Station Name Ambrose
 Elevation 6480 ft
 Location Latitude Longitude
 46.50792 -113.87424
 NOB 55

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	21	109
25	22	112
30	22	115
50	23	122
100	25	131

Station Name Arch Falls
 Elevation 7350 ft
 Location Latitude Longitude
 45.42775 -110.96027
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	21	109
25	22	112
30	22	115
50	24	123
100	26	133

Station Name Baree Creek
 Elevation 5500 ft
 Location Latitude Longitude
 47.96252 -115.53938
 NOB 78

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	65	338
25	67	346
30	68	353
50	71	370
100	75	392

Station Name Baree Midway
 Elevation 4600 ft
 Location Latitude Longitude
 47.96132 -115.51945
 NOB 49

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	51	266
25	53	274
30	54	280
50	57	296
100	61	317

Station Name Baree Trail
 Elevation 3800 ft
 Location Latitude Longitude
 47.95203 -115.49348
 NOB 48

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	96
25	19	99
30	19	100
50	20	105
100	21	111

Station Name Bassoo Peak
 Elevation 5150 ft
 Location Latitude Longitude
 47.85562 -114.75841
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	93
25	19	97
30	19	99
50	20	106
100	22	115

Station Name Bear Basin
 Elevation 8150 ft
 Location Latitude Longitude
 45.32334 -111.37141
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	32	168
25	33	172
30	34	175
50	36	185
100	38	197

Station Name Berry Meadow
 Elevation 7000 ft
 Location Latitude Longitude
 46.18333 -112.26667
 NOB 52

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	12	64
25	13	66
30	13	68
50	14	74
100	16	81

Station Name Black Pine
 Elevation 7210 ft
 Location Latitude Longitude
 46.414 -113.43095
 NOB 56

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	21	111
25	22	115
30	23	118
50	24	127
100	27	139

Station Name Bloody Dick
 Elevation 7600 ft
 Location Latitude Longitude
 45.16507 -113.50099
 NOB 67

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	21	108
25	21	111
30	22	113
50	23	118
100	24	124

Station Name Branham Lakes
 Elevation 8850 ft
 Location Latitude Longitude
 45.51745 -111.99442
 NOB 52

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	46	241
25	47	247
30	48	251
50	51	263
100	54	278

Station Name Brush Creek Timber
 Elevation 5000 ft
 Location Latitude Longitude
 48.37007 -114.86688
 NOB 66

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	89
25	18	91
30	18	93
50	19	98
100	20	105

Station Name Call Road
 Elevation 8000 ft
 Location Latitude Longitude
 45.1286 -111.86217
 NOB 51

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	19	100
25	20	102
30	20	104
50	21	110
100	23	117

Station Name Carrot Basin
 Elevation 9000 ft
 Location Latitude Longitude
 44.96192 -111.29403
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	55	288
25	57	296
30	58	303
50	62	321
100	66	344

Station Name Carter Creek
 Elevation 7400 ft
 Location Latitude 45.132 Longitude -112.44957
 NOB 49

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	11	55
25	11	57
30	11	58
50	12	62
100	13	68

Station Name Chessman Reservoir
 Elevation 6200 ft
 Location Latitude 46.47535 Longitude -112.18742
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	8	42
25	9	44
30	9	46
50	10	50
100	11	56

Station Name Clover Meadow
 Elevation 8600 ft
 Location Latitude 45.01788 Longitude -111.8456
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	139
25	28	143
30	28	146
50	30	154
100	32	165

Station Name Copper Mountain
 Elevation 7700 ft
 Location Latitude Longitude
 46.01715 -112.42412
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	91
25	18	94
30	19	96
50	20	103
100	21	112

Station Name Dad Creek Lake
 Elevation 8800 ft
 Location Latitude Longitude
 44.77665 -113.12217
 NOB 52

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	24	126
25	25	129
30	25	131
50	26	137
100	28	145

Station Name Darkhorse Lake
 Elevation 8600 ft
 Location Latitude Longitude
 45.17367 -113.5846
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	44	228
25	45	235
30	46	240
50	49	254
100	52	272

Station Name Davis Creek
 Elevation 5400 ft
 Location Latitude Longitude
 48.94965 -115.93848
 NOB 44

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	38	198
25	39	203
30	40	208
50	43	221
100	46	239

Station Name Devils Slide
 Elevation 8100 ft
 Location Latitude Longitude
 45.4 -110.95
 NOB 62

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	36	185
25	37	191
30	37	195
50	40	206
100	43	221

Station Name Divide
 Elevation 7800 ft
 Location Latitude Longitude
 44.79317 -112.05645
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	88
25	17	90
30	18	91
50	18	95
100	19	99

Station Name East Fork R.S.
 Elevation 5400 ft
 Location Latitude Longitude
 45.92242 -113.72588
 NOB 73

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	10	53
25	10	54
30	11	56
50	11	59
100	12	64

Station Name El Dorado Mine
 Elevation 7800 ft
 Location Latitude Longitude
 46.4338 -113.06208
 NOB 63

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	30	157
25	31	161
30	32	164
50	33	173
100	35	183

Station Name Elk Horn Springs
 Elevation 7800 ft
 Location Latitude Longitude
 45.47072 -113.09773
 NOB 80

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	15	76
25	15	78
30	15	79
50	16	83
100	17	88

Station Name Foolhen
 Elevation 8280 ft
 Location Latitude Longitude
 45.75995 -113.17962
 NOB 52

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	143
25	28	147
30	29	151
50	31	161
100	33	174

Station Name Four Mile
 Elevation 6900 ft
 Location Latitude Longitude
 45.52408 -111.8857
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	13	70
25	14	72
30	14	73
50	15	77
100	16	83

Station Name Fred Burr Pass
 Elevation 8000 ft
 Location Latitude Longitude
 46.3 -113.16667
 NOB 52

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	38	200
25	39	205
30	40	209
50	42	219
100	45	233

Station Name Garver Creek
 Elevation 4250 ft
 Location Latitude Longitude
 48.97523 -115.81915
 NOB 47

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	82
25	16	83
30	16	84
50	17	86
100	17	89

Station Name Gold Creek Lake
 Elevation 7200 ft
 Location Latitude Longitude
 46.44593 -113.05823
 NOB 61

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	24	125
25	25	128
30	25	131
50	27	139
100	29	149

Station Name Gold Stone
 Elevation 8100 ft
 Location Latitude Longitude
 45.15785 -113.52535
 NOB 64

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	139
25	27	142
30	28	145
50	29	151
100	31	159

Station Name Grave Creek
 Elevation 4300 ft
 Location Latitude Longitude
 48.91453 -114.76663
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	26	134
25	26	137
30	27	140
50	29	148
100	31	159

Station Name Griffin Creek Divide
 Elevation 5150 ft
 Location Latitude Longitude
 48.1982 -114.72658
 NOB 55

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	88
25	17	90
30	18	92
50	19	97
100	20	103

Station Name Hawkins Lake
 Elevation 6450 ft
 Location Latitude Longitude
 48.9723 -115.95337
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	46	241
25	47	246
30	48	250
50	50	259
100	52	271

Station Name Hebgen Dam
 Elevation 6550 ft
 Location Latitude Longitude
 44.87189 -111.34391
 NOB 78

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	92
25	18	95
30	19	97
50	20	102
100	21	109

Station Name Hell Roaring Divide
 Elevation 5770 ft
 Location Latitude Longitude
 48.49633 -114.35613
 NOB 73

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	44	227
25	45	232
30	45	236
50	47	246
100	50	260

Station Name Hood Meadow
 Elevation 6600 ft
 Location Latitude Longitude
 45.48333 -110.96667
 NOB 58

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	91
25	18	94
30	18	96
50	20	103
100	21	112

Station Name Hoodoo Basin
 Elevation 6050 ft
 Location Latitude Longitude
 46.9751 -115.0349
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	73	379
25	75	388
30	76	395
50	79	413
100	84	436

Station Name Hoodoo Creek
 Elevation 5900 ft
 Location Latitude Longitude
 46.98333 -115.01667
 NOB 61

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	72	374
25	74	382
30	75	389
50	78	407
100	83	429

Station Name Intergaard
 Elevation 6450 ft
 Location Latitude Longitude
 46.2138 -113.2833
 NOB 77

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	12	65
25	13	67
30	13	68
50	14	72
100	15	77

Station Name Jack Creek
 Elevation 6650 ft
 Location Latitude Longitude
 45.33333 -111.55
 NOB 23

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	9	49
25	10	50
30	10	50
50	10	51
100	10	52

Station Name Jahnke Lake Trail
 Elevation 7200 ft
 Location Latitude Longitude
 45.21665 -113.50143
 NOB 64

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	88
25	17	91
30	18	93
50	19	98
100	20	105

Station Name Keeler Creek
 Elevation 3300 ft
 Location Latitude Longitude
 48.33333 -116.01667
 NOB 38

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	25	130
25	26	133
30	26	136
50	27	142
100	29	149

Station Name Kishenehn
 Elevation 3890 ft
 Location Latitude Longitude
 48.95832 -114.42037
 NOB 69

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	14	73
25	14	74
30	15	76
50	15	79
100	16	82

Station Name Lake Creek
 Elevation 6100 ft
 Location Latitude Longitude
 44.8437 -111.58897
 NOB 51

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	13	65
25	13	67
30	13	68
50	14	72
100	15	76

Station Name Lakeview Canyon
 Elevation 6930 ft
 Location Latitude Longitude
 44.5932 -111.8168
 NOB 67

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	19	99
25	20	102
30	20	105
50	21	112
100	23	120

Station Name Lakeview Ridge
 Elevation 7400 ft
 Location Latitude 44.58907 Longitude -111.82498
 NOB 67

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	91
25	18	94
30	19	97
50	20	103
100	21	111

Station Name Lemhi Pass
 Elevation 7480 ft
 Location Latitude 44.98333 Longitude -113.43333
 NOB 44

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	14	75
25	15	77
30	15	79
50	16	83
100	17	89

Station Name Lemhi Ridge
 Elevation 8100 ft
 Location Latitude 44.9938 Longitude -113.44399
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	89
25	18	91
30	18	94
50	19	100
100	21	108

Station Name Lick Creek
 Elevation 6860 ft
 Location Latitude Longitude
 45.5041 -110.96625
 NOB 51

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	20	105
25	21	110
30	22	113
50	24	124
100	27	140

Station Name Little Park
 Elevation 7400 ft
 Location Latitude Longitude
 45.3092 -111.3537
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	25	131
25	26	135
30	27	138
50	28	146
100	30	157

Station Name Logan Creek
 Elevation 4300 ft
 Location Latitude Longitude
 48.326 -114.64365
 NOB 78

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	13	66
25	13	67
30	13	69
50	14	73
100	15	78

Station Name Lower Twin
 Elevation 7900 ft
 Location Latitude Longitude
 45.50871 -111.92288
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	33	172
25	34	176
30	34	179
50	36	187
100	38	197

Station Name Lubrecht Forest No 3
 Elevation 5450 ft
 Location Latitude Longitude
 46.86552 -113.41537
 NOB 63

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	11	59
25	12	61
30	12	63
50	13	67
100	14	74

Station Name Lubrecht Forest No 4
 Elevation 4650 ft
 Location Latitude Longitude
 46.86945 -113.45938
 NOB 62

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	6	32
25	6	34
30	7	35
50	7	39
100	8	44

Station Name Lubrecht Forest No 6
 Elevation 4040 ft
 Location Latitude Longitude
 46.89898 -113.45325
 NOB 64

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	7	38
25	8	39
30	8	40
50	8	43
100	9	46

Station Name Madison Plateau
 Elevation 7750 ft
 Location Latitude Longitude
 44.58623 -111.11627
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	35	183
25	36	185
30	36	187
50	37	192
100	38	198

Station Name Middle Mill Creek
 Elevation 7850 ft
 Location Latitude Longitude
 45.49402 -111.99318
 NOB 52

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	25	130
25	26	134
30	26	136
50	28	144
100	30	154

Station Name Mudd Lake
 Elevation 7650 ft
 Location Latitude Longitude
 45.91517 -113.41648
 NOB 51

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	30	155
25	31	159
30	31	162
50	33	169
100	34	179

Station Name New World
 Elevation 6900 ft
 Location Latitude Longitude
 45.56311 -110.92929
 NOB 76

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	21	109
25	22	112
30	22	115
50	23	122
100	25	131

Station Name Nez Perce Creek
 Elevation 6600 ft
 Location Latitude Longitude
 46.09907 -112.3443
 NOB 51

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	11	57
25	11	59
30	12	60
50	12	64
100	13	68

Station Name North Meadow
 Elevation 7500 ft
 Location Latitude Longitude
 45.55 -111.93333
 NOB 31

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	85
25	17	87
30	17	89
50	18	94
100	19	100

Station Name Notch
 Elevation 8500 ft
 Location Latitude Longitude
 44.88162 -112.13507
 NOB 52

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	30	154
25	31	159
30	31	162
50	33	173
100	36	187

Station Name Palisade Creek
 Elevation 8250 ft
 Location Latitude Longitude
 45.95 -113.46667
 NOB 47

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	45	233
25	46	238
30	46	242
50	48	251
100	51	263

Station Name Pipestone Pass
 Elevation 7200 ft
 Location Latitude Longitude
 45.84997 -112.45567
 NOB 77

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	11	56
25	11	58
30	12	60
50	13	65
100	14	73

Station Name Potomageton Park
 Elevation 7150 ft
 Location Latitude Longitude
 44.92462 -111.36107
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	21	110
25	22	113
30	22	116
50	23	122
100	25	130

Station Name Red Mountain
 Elevation 6000 ft
 Location Latitude Longitude
 48.90922 -115.35612
 NOB 78

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	29	150
25	29	153
30	30	155
50	31	162
100	33	170

Station Name Rocker Peak
 Elevation 8000 ft
 Location Latitude Longitude
 46.35613 -112.26176
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	24	125
25	25	128
30	25	131
50	27	139
100	29	149

Station Name Saddle Mountain
 Elevation 7940 ft
 Location Latitude Longitude
 45.69259 -113.96828
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	40	207
25	41	212
30	42	216
50	44	228
100	47	242

Station Name Sentinel Creek
 Elevation 8300 ft
 Location Latitude Longitude
 44.96667 -111.38333
 NOB 32

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	36	189
25	37	193
30	38	196
50	39	204
100	41	214

Station Name Shower Falls
 Elevation 8100 ft
 Location Latitude Longitude
 45.40125 -110.95758
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	40	209
25	41	215
30	42	220
50	45	232
100	48	248

Station Name Skalkaho Summit
 Elevation 7250 ft
 Location Latitude Longitude
 46.24212 -113.7725
 NOB 78

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	37	193
25	38	197
30	38	200
50	40	209
100	42	220

Station Name Slag-A-Melt Lake
 Elevation 8750 ft
 Location Latitude Longitude
 45.36235 -113.72468
 NOB 53

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	42	216
25	43	223
30	44	228
50	46	241
100	50	259

Station Name Slide Rock Mountain
 Elevation 7100 ft
 Location Latitude Longitude
 46.58515 -113.57242
 NOB 78

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	25	132
25	26	136
30	27	139
50	28	148
100	31	160

Station Name Smuggler Mine
 Elevation 6960 ft
 Location Latitude Longitude
 45.48023 -112.03747
 NOB 52

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	15	79
25	16	81
30	16	82
50	17	87
100	18	92

Station Name Stemple Pass
 Elevation 6600 ft
 Location Latitude Longitude
 46.89093 -112.49857
 NOB 81

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	86
25	17	88
30	17	89
50	18	94
100	19	100

Station Name Storm Lake
 Elevation 7780 ft
 Location Latitude Longitude
 46.08835 -113.2681
 NOB 76

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	22	114
25	22	117
30	23	119
50	24	124
100	25	130

Station Name Stuart Mill
 Elevation 6500 ft
 Location Latitude Longitude
 46.16667 -113.26667
 NOB 56

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	10	54
25	11	56
30	11	56
50	11	58
100	12	61

Station Name Stuart Mountain
 Elevation 7400 ft
 Location Latitude Longitude
 46.99523 -113.92664
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	49	254
25	50	261
30	51	267
50	54	283
100	58	304

Station Name Ten Mile Lower
 Elevation 6600 ft
 Location Latitude Longitude
 46.45542 -112.28783
 NOB 80

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	12	60
25	12	62
30	12	63
50	13	67
100	14	71

Station Name Ten Mile Middle
 Elevation 6800 ft
 Location Latitude Longitude
 46.43643 -112.29167
 NOB 81

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	92
25	18	95
30	19	97
50	20	102
100	21	108

Station Name Ten Mile Upper
 Elevation 8000 ft
 Location Latitude Longitude
 46.41667 -112.28333
 NOB 58

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	23	118
25	23	120
30	23	122
50	24	127
100	25	132

Station Name Tepee Creek
 Elevation 8000 ft
 Location Latitude Longitude
 44.78562 -111.71
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	24	127
25	25	131
30	26	134
50	27	141
100	29	151

Station Name Trail Creek
 Elevation 7090 ft
 Location Latitude Longitude
 44.96987 -113.43472
 NOB 64

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	14	71
25	14	73
30	14	75
50	15	79
100	16	84

Station Name Tv Mountain
 Elevation 6800 ft
 Location Latitude Longitude
 47.01957 -114.01377
 NOB 57

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	29	149
25	29	153
30	30	156
50	32	164
100	34	174

Station Name Twenty-One Mile
 Elevation 7150 ft
 Location Latitude Longitude
 44.92004 -111.05468
 NOB 78

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	140
25	28	144
30	28	148
50	30	157
100	32	168

Station Name Weasel Divide
 Elevation 5450 ft
 Location Latitude Longitude
 48.95642 -114.75603
 NOB 78

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	48	248
25	49	253
30	49	257
50	51	267
100	54	280

Station Name West Yellowstone
 Elevation 6700 ft
 Location Latitude Longitude
 44.65866 -111.09199
 NOB 81

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	94
25	19	97
30	19	99
50	20	105
100	22	112

Station Name Whiskey Creek
 Elevation 6800 ft
 Location Latitude Longitude
 44.61088 -111.14998
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	31	162
25	32	165
30	32	168
50	34	175
100	35	184

Station Name White Pine Ridge
 Elevation 8850 ft
 Location Latitude Longitude
 44.6154 -112.73892
 NOB 65

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	11	59
25	12	61
30	12	63
50	13	68
100	15	76

APPENDIX F: Montana NWS Data

Station Name DILLON WMCE
 Elevation 5228 ft
 Location Latitude Longitude
 45.2128 -112.6447
 NOB 68

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	14	13
25	15	13
30	15	14
50	16	14
100	17	16

Station Name KALISPELL
 GLACIER AP
 Elevation 2957 ft
 Location Latitude Longitude
 48.3042 -114.2636
 NOB 112

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	32	44
25	34	48
30	36	52
50	41	64
100	48	81

Station Name LIBBY 1 NE RS
 Elevation 2096 ft
 Location Latitude Longitude
 48.4036 -115.5392
 NOB 101

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	33	46
25	35	50
30	36	53
50	39	60
100	43	71

APPENDIX G: Wyoming NRCS Data

Station Name Afton R.S.
 Elevation 6240
 Location Latitude Longitude
 42.73333 -110.93333
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	7	38
25	7	39
30	8	40
50	8	42
100	8	44

Station Name Arizona
 Elevation 6820
 Location Latitude Longitude
 43.98333 -110.65
 NOB 60

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	142
25	28	144
30	28	146
50	29	151
100	30	156

Station Name Aster Creek
 Elevation 7750
 Location Latitude Longitude
 44.28333 -110.63333
 NOB 85

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	46	241
25	47	247
30	48	251
50	51	264
100	54	279

Station Name Base Camp
 Elevation 7030
 Location Latitude Longitude
 43.93333 -110.43333
 NOB 85

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	29	149
25	29	152
30	30	155
50	31	162
100	33	171

Station Name Big Park
 Elevation 8620
 Location Latitude Longitude
 42.35 -110.767
 NOB 64

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	31	160
25	32	164
30	32	167
50	34	176
100	36	186

Station Name Blackrock
 Elevation 8900
 Location Latitude Longitude
 43.78333 -110.13333
 NOB 58

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	31	162
25	32	166
30	33	169
50	34	177
100	36	187

Station Name Bryan Flat
 Elevation 6420
 Location Latitude Longitude
 43.26667 -110.63333
 NOB 68

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	15	79
25	15	80
30	16	82
50	16	85
100	17	88

Station Name Ccc Camp
 Elevation 7500
 Location Latitude Longitude
 42.524 -110.883
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	95
25	19	98
30	19	100
50	20	106
100	22	113

Station Name Cottonwood Creek
 Elevation 7670
 Location Latitude Longitude
 42.6459 -110.81482
 NOB 31

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	34	175
25	35	181
30	36	186
50	38	199
100	42	218

Station Name Cottonwood Lake AM
 Elevation 7670
 Location Latitude Longitude
 42.51667 -110.81667
 NOB 53

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	26	137
25	27	141
30	28	144
50	29	152
100	31	163

Station Name Coulter Creek
 Elevation 7020
 Location Latitude Longitude
 44.16667 -110.56667
 NOB 68

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	33	174
25	34	178
30	35	182
50	37	191
100	39	202

Station Name Darby Canyon
 Elevation 8250
 Location Latitude Longitude
 43.8 -111
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	36	187
25	37	192
30	38	195
50	39	204
100	42	216

Station Name Elbo Ranch
 Elevation 7100
 Location Latitude Longitude
 43.66667 -110.6
 NOB 52

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	90
25	18	92
30	18	94
50	19	98
100	20	104

Station Name Four Mile Meadow
 Elevation 7860
 Location Latitude Longitude
 43.81667 -110.26667
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	94
25	18	96
30	19	98
50	20	102
100	21	107

Station Name Freds Mountain
 Elevation 8000
 Location Latitude Longitude
 43.78333 -110.96667
 NOB 20

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	41	214
25	42	218
30	42	220
50	43	225
100	44	231

Station Name Greys Boundary
 Elevation 5720
 Location Latitude Longitude
 43.15 -111
 NOB 74

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	88
25	17	89
30	17	91
50	18	94
100	19	97

Station Name Gros Ventre Summit
 Elevation 8750
 Location Latitude Longitude
 43.38333 -110.13333
 NOB 67

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	20	102
25	20	105
30	21	107
50	22	113
100	23	121

Station Name Grover Park Divide
 Elevation 7000
 Location Latitude Longitude
 42.8 -110.9
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	91
25	18	93
30	18	95
50	19	101
100	21	108

Station Name Hams Fork
 Elevation 7840
 Location Latitude Longitude
 42.146 -110.67833
 NOB 29

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	86
25	17	87
30	17	88
50	17	90
100	18	93

Station Name Huckleberry Divide
 Elevation 7300
 Location Latitude Longitude
 44.05 -110.68333
 NOB 85

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	30	157
25	31	160
30	31	162
50	32	169
100	34	176

Station Name Indian Creek
 Elevation 9425
 Location Latitude Longitude
 42.3 -110.68333
 NOB 34

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	42	219
25	43	226
30	45	232
50	48	247
100	52	268

Station Name Indian Meadows
 Elevation 8240
 Location Latitude Longitude
 43.9 -110.88333
 NOB 32

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	56	293
25	57	299
30	58	303
50	60	313
100	62	325

Station Name Jackpine Creek
 Elevation 7350
 Location Latitude Longitude
 43.95 -111
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	32	166
25	33	170
30	33	172
50	34	178
100	36	186

Station Name Kelley R.S.
 Elevation 8180
 Location Latitude Longitude
 42.25 -110.8
 NOB 64

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	141
25	28	145
30	28	148
50	30	156
100	32	166

Station Name Lake Camp
 Elevation 7780
 Location Latitude Longitude
 44.55 -110.4
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	88
25	17	91
30	18	93
50	19	100
100	21	109

Station Name Lewis Lake Divide
 Elevation 7850
 Location Latitude Longitude
 44.2 -110.66667
 NOB 85

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	62	324
25	64	331
30	65	336
50	67	350
100	70	366

Station Name Moran
 Elevation 6750
 Location Latitude Longitude
 43.86667 -110.56667
 NOB 85

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	93
25	18	95
30	19	97
50	19	101
100	21	107

Station Name Moran Bay
 Elevation 6810
 Location Latitude Longitude
 43.86667 -110.73333
 NOB 53

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	32	169
25	33	172
30	34	175
50	35	181
100	36	189

Station Name Old Faithful
 Elevation 7400
 Location Latitude Longitude
 44.45 -110.81667
 NOB 40

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	22	112
25	22	114
30	22	116
50	23	121
100	24	126

Station Name Phillips Bench
 Elevation 8200
 Location Latitude Longitude
 43.51667 -110.91667
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	45	233
25	46	239
30	47	244
50	49	257
100	53	274

Station Name South Thomas Fork
 Elevation 7840
 Location Latitude Longitude
 42.3 -110.96667
 NOB 16

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	25	131
25	25	132
30	26	133
50	26	135
100	26	138

Station Name Teton Pass W.s.
 Elevation 7740
 Location Latitude Longitude
 43.5 -110.98333
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	40	210
25	41	215
30	42	219
50	44	230
100	47	243

Station Name Thumb Divide
 Elevation 7980
 Location Latitude Longitude
 44.36667 -110.56667
 NOB 77

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	32	169
25	33	174
30	34	178
50	36	188
100	39	202

Station Name Togwotee Pass
 Elevation 9580
 Location Latitude Longitude
 43.75 -110.05
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	46	237
25	47	243
30	48	247
50	50	260
100	53	276

Station Name Turpin Meadows
 Elevation 6900
 Location Latitude Longitude
 43.85 -110.28333
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	15	80
25	16	82
30	16	84
50	17	88
100	18	93

Station Name Two Ocean Plateau
 Elevation 9240
 Location Latitude Longitude
 44.15 -110.21667
 NOB 34

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	50	260
25	51	267
30	53	273
50	56	290
100	60	312

Station Name Willow Creek
 Elevation 8380
 Location Latitude Longitude
 42.81513 -110.83515
 NOB 33

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	45	233
25	46	238
30	47	243
50	49	253
100	51	266

Station Name Youngs Ranch
 Elevation 6650
 Location Latitude Longitude
 42.91667 -110.71667
 NOB 32

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	28	146
25	29	151
30	30	155
50	32	165
100	34	177

APPENDIX H: Utah NRCS Data

Station Name Bug Lake
 Elevation 7950 ft
 Location Latitude Longitude
 41.68333 -111.41667
 NOB 38

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	32	166
25	33	172
30	34	176
50	36	188
100	39	203

Station Name Clear Creek Meadows
 Elevation 9050 ft
 Location Latitude Longitude
 41.91667 -113.4
 NOB 33

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	35	183
25	36	188
30	37	192
50	39	201
100	41	214

Station Name Garden City Summit
 Elevation 7600 ft
 Location Latitude Longitude
 41.922 -111.46817
 NOB 84

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	138
25	27	140
30	27	141
50	28	145
100	29	149

Station Name George Creek
 Elevation 8994 ft
 Location Latitude Longitude
 41.91582 -113.41158
 NOB 34

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	33	173
25	34	178
30	35	183
50	38	195
100	41	212

Station Name Kilfoil Creek
 Elevation 7300 ft
 Location Latitude Longitude
 41.24735 -111.4127
 NOB 48

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	21	108
25	21	110
30	21	111
50	22	115
100	23	119

Station Name Klondike Narrows
 Elevation 7400 ft
 Location Latitude Longitude
 41.96833 -111.59683
 NOB 61

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	29	150
25	29	153
30	30	155
50	31	162
100	33	169

Station Name Little Bear
 Elevation 6544 ft
 Location Latitude Longitude
 41.4055 -111.82612
 NOB 37

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	24	125
25	25	129
30	26	133
50	28	144
100	31	159

Station Name Little Bear-Lower
 Elevation 6000 ft
 Location Latitude Longitude
 41.42505 -111.83745
 NOB 53

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	15	76
25	15	77
30	15	77
50	15	77
100	15	77

Station Name Little Bear-Upper
 Elevation 6550 ft
 Location Latitude Longitude
 41.4 -111.81667
 NOB 34

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	19	101
25	20	102
30	20	104
50	21	107
100	21	111

Station Name Monte Cristo R.S.
 Elevation 8960 ft
 Location Latitude Longitude
 41.46667 -111.5
 NOB 61

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	40	206
25	41	211
30	41	214
50	43	223
100	45	233

Station Name One Mile Summit
 Elevation 7330 ft
 Location Latitude Longitude
 41.93333 -113.46667
 NOB 31

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	11	58
25	11	59
30	12	60
50	12	63
100	13	67

Station Name Steep Hollow #1
 Elevation 8500 ft
 Location Latitude Longitude
 41.96667 -111.63333
 NOB 27

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	57	296
25	58	300
30	58	302
50	59	309
100	61	317

Station Name Steep Hollow #2
 Elevation 7700 ft
 Location Latitude Longitude
 41.96667 -111.61667
 NOB 27

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	40	207
25	40	210
30	41	213
50	42	220
100	44	228

Station Name Temple Fork
 Elevation 7406 ft
 Location Latitude Longitude
 41.793 -111.54605
 NOB 14

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	142
25	28	147
30	29	152
50	32	164
100	35	180

Station Name Tony Grove Lake
 Elevation 8400 ft
 Location Latitude Longitude
 41.9 -111.63333
 NOB 40

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	60	311
25	62	320
30	63	327
50	66	345
100	71	368

Station Name Tony Grove Ranger Station
 Elevation 6250 ft
 Location Latitude 41.88467 Longitude -111.56882
 NOB 86

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	19	99
25	19	101
30	20	103
50	21	108
100	22	114

Station Name Vipont
 Elevation 7680 ft
 Location Latitude 41.94102 Longitude -113.83283
 NOB 49

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	24	124
25	25	127
30	25	130
50	26	137
100	28	146

APPENDIX I: Utah NWS Data

Station Name TOOELE
 Elevation 5074 ft
 Location Latitude Longitude
 40.52778 -112.2975
 NOB 69

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	25	26
25	25	27
30	26	28
50	27	31
100	28	34

Station Name WOODRUFF
 Elevation 6315 ft
 Location Latitude Longitude
 41.525 -111.14944
 NOB 67

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	22	20
25	23	23
30	24	25
50	27	32
100	31	41

APPENDIX J: Nevada NRCS Data

Station Name American Beauty - Aerial Marker
 Elevation 7800 ft
 Location Latitude 40.53373 Longitude -115.45677
 NOB 51

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	90
25	18	92
30	18	93
50	18	96
100	19	99

Station Name Bear Creek
 Elevation 8040 ft
 Location Latitude 41.83417 Longitude -115.45222
 NOB 36

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	34	178
25	36	185
30	37	190
50	40	206
100	44	228

Station Name Big Bend
 Elevation 6700 ft
 Location Latitude 41.76168 Longitude -115.6931
 NOB 36

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	87
25	17	90
30	18	92
50	19	99
100	21	107

Station Name Columbia Basin - Aerial Marker
 Elevation 6650 ft
 Location Latitude 41.67167 Longitude -116.07033
 NOB 50

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	17	88
25	17	91
30	18	93
50	19	98
100	20	105

Station Name Corral Canyon
 Elevation 8500 ft
 Location Latitude 40.27783 Longitude -115.53467
 NOB 36

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	142
25	28	146
30	29	149
50	30	157
100	32	168

Station Name Dorsey Basin
 Elevation 8100 ft
 Location Latitude 40.89333 Longitude -115.20483
 NOB 36

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	140
25	28	147
30	29	153
50	33	169
100	37	193

Station Name Dry Creek
 Elevation 6500 ft
 Location Latitude Longitude
 40.86208 -115.22078
 NOB 74

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	12	62
25	13	65
30	13	68
50	14	75
100	16	84

Station Name Fawn Creek
 Elevation 7000 ft
 Location Latitude Longitude
 41.82098 -116.10153
 NOB 34

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	29	148
25	30	154
30	30	158
50	33	171
100	36	188

Station Name Fry Canyon
 Elevation 6700 ft
 Location Latitude Longitude
 41.57872 -115.93182
 NOB 80

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	14	73
25	14	75
30	15	77
50	16	82
100	17	87

Station Name Goat Creek
 Elevation 8800 ft
 Location Latitude Longitude
 41.83333 -115.15
 NOB 10

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	37	194
25	39	203
30	40	211
50	45	232
100	51	263

Station Name Gold Creek
 Elevation 6707 ft
 Location Latitude Longitude
 41.75093 -115.67798
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	11	56
25	11	58
30	11	59
50	12	62
100	13	66

Station Name Green Mountain
 Elevation 8000 ft
 Location Latitude Longitude
 40.38433 -115.52517
 NOB 35

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	143
25	29	150
30	30	156
50	33	172
100	38	197

Station Name Harrison Pass #1
 Elevation 6600 ft
 Location Latitude Longitude
 40.32443 -115.56217
 NOB 83

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	10	53
25	11	55
30	11	56
50	11	59
100	12	63

Station Name Hole-in-Mountain
 Elevation 7900 ft
 Location Latitude Longitude
 40.9427 -115.09572
 NOB 33

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	43	222
25	46	237
30	48	249
50	55	285
100	65	338

Station Name Jack Creek Upper
 Elevation 7250 ft
 Location Latitude Longitude
 41.54675 -116.00517
 NOB 36

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	32	166
25	33	173
30	34	178
50	37	195
100	42	217

Station Name Jack Creek, Lower
 Elevation 6800 ft
 Location Latitude Longitude
 41.53333 -116.03333
 NOB 72

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	10	52
25	10	54
30	11	56
50	12	61
100	13	67

Station Name Jakes Creek - Aerial Marker
 Elevation 7000 ft
 Location Latitude Longitude
 41.5687 -115.03243
 NOB 32

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	15	79
25	16	83
30	17	86
50	18	96
100	21	108

Station Name Lamoille #1
 Elevation 7364 ft
 Location Latitude Longitude
 40.65802 -115.43415
 NOB 93

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	82
25	16	85
30	17	86
50	17	91
100	18	96

Station Name Lamoille #3
 Elevation 7700 ft
 Location Latitude Longitude
 40.64517 -115.376
 NOB 34

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	22	117
25	23	121
30	24	124
50	26	134
100	28	147

Station Name Lamoille #5
 Elevation 8814 ft
 Location Latitude Longitude
 40.60175 -115.37683
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	45	233
25	46	239
30	47	243
50	49	255
100	52	270

Station Name Laurel Draw
 Elevation 6697 ft
 Location Latitude Longitude
 41.77637 -116.02957
 NOB 35

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	85
25	17	87
30	17	89
50	18	94
100	19	99

Station Name Merritt Mountain - Aerial Marker

Elevation 7000 ft
 Location Latitude 41.89283 Longitude -115.85815
 NOB 46

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	15	79
25	16	82
30	16	85
50	18	92
100	19	101

Station Name Midas

Elevation 7200 ft
 Location Latitude 41.26873 Longitude -116.80332
 NOB 55

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	14	71
25	14	75
30	15	78
50	17	88
100	19	100

Station Name O'Neil Creek

Elevation 6480 ft
 Location Latitude 41.86667 Longitude -115.06667
 NOB 29

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	14	71
25	14	75
30	15	77
50	16	85
100	18	95

Station Name Pole Canyon #2
 Elevation 7700 ft
 Location Latitude 40.86235 Longitude -115.12092
 NOB 38

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	27	143
25	29	148
30	29	153
50	32	165
100	35	181

Station Name Pole Creek R.S.
 Elevation 8330 ft
 Location Latitude 41.87306 Longitude -115.24694
 NOB 34

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	31	163
25	32	167
30	33	171
50	35	181
100	37	194

Station Name Robinson Lake - Aerial Marker
 Elevation 9200 ft
 Location Latitude 40.7237 Longitude -115.27888
 NOB 48

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	50	260
25	51	265
30	52	269
50	54	280
100	56	291

Station Name Seventysix Creek
 Elevation 7100 ft
 Location Latitude Longitude
 41.73732 -115.47215
 NOB 36

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	20	106
25	21	110
30	22	113
50	24	123
100	26	135

Station Name Smith Creek
 Elevation 7600 ft
 Location Latitude Longitude
 40.44675 -115.51147
 NOB 38

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	20	103
25	20	105
30	21	107
50	21	111
100	22	115

Station Name Snow Storm Mountain-Am
 Elevation 7420 ft
 Location Latitude Longitude
 41.33977 -116.98055
 NOB 32

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	22	114
25	23	118
30	23	122
50	25	130
100	27	142

Station Name Stag Mountain AM
 Elevation 7800 ft
 Location Latitude Longitude
 41.40817 -115.44657
 NOB 49

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	15	78
25	16	82
30	17	86
50	19	97
100	21	112

Station Name Taylor Canyon
 Elevation 6200 ft
 Location Latitude Longitude
 41.22933 -116.02883
 NOB 33

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	14	75
25	15	79
30	16	82
50	18	92
100	20	105

Station Name Tent Mtn., Lower - Aerial Marker
 Elevation 7000 ft
 Location Latitude Longitude
 40.97852 -115.17215
 NOB 40

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	20	103
25	21	108
30	22	113
50	24	126
100	28	143

Station Name Tent Mtn., Upper- Aerial Marker
 Elevation 8350 ft
 Location Latitude Longitude
 40.96535 -115.16458
 NOB 43

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	32	166
25	32	168
30	33	169
50	33	173
100	34	177

Station Name Toe Jam - Aerial Marker
 Elevation 7700 ft
 Location Latitude Longitude
 41.32192 -116.33815
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	94
25	19	97
30	19	99
50	20	103
100	21	109

Station Name Tremewan Ranch
 Elevation 5700 ft
 Location Latitude Longitude
 41.29428 -115.78742
 NOB 54

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	6	34
25	7	35
30	7	37
50	8	40
100	9	45

Station Name Trout Creek, Lower
 Elevation 6900 ft
 Location Latitude 41.06662 Longitude -115.09613
 NOB 70

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	9	49
25	10	51
30	10	52
50	11	56
100	12	60

Station Name Trout Creek, Upper - AM
 Elevation 8500 ft
 Location Latitude 41.04393 Longitude -115.09555
 NOB 77

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	34	178
25	35	184
30	36	190
50	39	204
100	43	222

APPENDIX K: Nevada NWS Data

Station Name BEOVAWE
 Elevation 4700 ft
 Location Latitude Longitude
 40.5903 -116.4750
 NOB 52

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	11	10
25	12	11
30	12	11
50	14	12
100	15	14

Station Name MONTELLO 2 SE
 Elevation 4830 ft
 Location Latitude Longitude
 41.2783 -114.1708
 NOB 42

Return Period (Years)	Snow Depth (in)	Ground Snow Load (PSF)
20	12	11
25	13	12
30	14	12
50	15	14
100	18	16

APPENDIX L: Oregon NRCS Data

Station Name Aneroid Lake #1 (Disc)
 Elevation 7480 ft
 Location Latitude Longitude
 45.21667 -117.2
 NOB 50

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	55	288
25	57	294
30	58	299
50	60	312
100	63	329

Station Name Aneroid Lake #2
 Elevation 7300 ft
 Location Latitude Longitude
 45.21667 -117.2
 NOB 73

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	52	269
25	53	276
30	54	281
50	57	297
100	61	317

Station Name Anthony Lake
 Elevation 7160 ft
 Location Latitude Longitude
 44.9591 -118.22668
 NOB 72

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	43	222
25	44	227
30	44	231
50	46	240
100	49	252

Station Name Battle Mountain Sum (Disc)
 Elevation 4340 ft
 Location Latitude Longitude
 45.33333 -118.96667
 NOB 15

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	7	36
25	7	38
30	8	39
50	8	42
100	9	47

Station Name Beaver Reservoir (Disc)
 Elevation 5150 ft
 Location Latitude Longitude
 45.13333 -118.21667
 NOB 35

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	94
25	18	96
30	19	98
50	20	102
100	21	107

Station Name Beaver Reservoir (Rev.)
 Elevation 5150 ft
 Location Latitude Longitude
 45.13333 -118.21667
 NOB 76

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	20	103
25	20	105
30	21	107
50	21	111
100	22	117

Station Name Blue Mountain Camp (Disc)
 Elevation 4300 ft
 Location Latitude Longitude
 45.75 -118.26667
 NOB 20

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	34	176
25	35	182
30	36	187
50	38	198
100	41	212

Station Name Blue Mountain Summit
 (Disc)
 Elevation 5100 ft
 Location Latitude Longitude
 44.51667 -118.33333
 NOB 49

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	14	70
25	14	72
30	14	73
50	14	75
100	15	78

Station Name Bourne
 Elevation 5800 ft
 Location Latitude Longitude
 44.81667 -118.2
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	23	120
25	23	122
30	24	124
50	25	129
100	26	134

Station Name County Line (Disc)
 Elevation 4800 ft
 Location Latitude Longitude
 45.18333 -118.53333
 NOB 30

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	10	55
25	11	56
30	11	57
50	11	59
100	12	62

Station Name County Line (Rev.)
 Elevation 4800 ft
 Location Latitude Longitude
 45.18333 -118.53333
 NOB 45

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	12	61
25	12	64
30	13	66
50	14	73
100	16	82

Station Name Crane Prairie (Disc)
 Elevation 5380 ft
 Location Latitude Longitude
 44.08333 -118.45
 NOB 37

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	83
25	16	85
30	17	87
50	18	92
100	19	98

Station Name Dooley Mountain
 Elevation 5440 ft
 Location Latitude Longitude
 44.56953 -117.8425
 NOB 72

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	82
25	16	84
30	17	86
50	17	90
100	18	95

Station Name Eldorado Pass
 Elevation 4630 ft
 Location Latitude Longitude
 44.34313 -118.08485
 NOB 56

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	8	44
25	9	45
30	9	47
50	10	50
100	11	55

Station Name Emigrant Springs (Rev)
 Elevation 3930 ft
 Location Latitude Longitude
 45.55 -118.45
 NOB 83

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	15	77
25	16	82
30	16	85
50	18	94
100	20	106

Station Name Fish Creek (Disc)
 Elevation 7900 ft
 Location Latitude Longitude
 42.7 -118.48333
 NOB 39

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	38	198
25	39	202
30	40	206
50	41	214
100	43	225

Station Name Fish Creek (Rev.)
 Elevation 7900 ft
 Location Latitude Longitude
 42.7 -118.63333
 NOB 74

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	40	210
25	41	215
30	42	219
50	44	228
100	46	240

Station Name Fish Creek Am (Disc)
 Elevation 7900 ft
 Location Latitude Longitude
 42.7 -118.48333
 NOB 20

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	38	195
25	38	200
30	39	204
50	41	214
100	43	225

Station Name Gold Center (Rev)
 Elevation 5340 ft
 Location Latitude Longitude
 44.76667 -118.28333
 NOB 76

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	92
25	18	94
30	18	95
50	19	98
100	20	102

Station Name Goodrich Lake
 Elevation 6780 ft
 Location Latitude Longitude
 44.75 -118.08333
 NOB 53

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	58	299
25	58	303
30	59	306
50	60	313
100	61	320

Station Name Idlewild Camp (Disc)
 Elevation 5200 ft
 Location Latitude Longitude
 43.76667 -118.96667
 NOB 43

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	11	55
25	11	56
30	11	57
50	11	59
100	12	62

Station Name Intake House (Disc)
 Elevation 4930 ft
 Location Latitude Longitude
 44.91667 -117.98333
 NOB 11

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	85
25	16	86
30	17	86
50	17	87
100	17	89

Station Name Lucky Strike
 Elevation 5050 ft
 Location Latitude Longitude
 45.28333 -118.85
 NOB 76

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	96
25	19	98
30	19	100
50	20	104
100	21	108

Station Name Meacham
 Elevation 4320 ft
 Location Latitude Longitude
 45.45817 -118.39352
 NOB 84

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	18	95
25	19	98
30	19	100
50	20	106
100	22	112

Station Name Moss Springs
 Elevation 5850 ft
 Location Latitude Longitude
 45.26667 -117.68333
 NOB 77

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	37	191
25	37	195
30	38	198
50	40	206
100	41	216

Station Name Rock Springs
 Elevation 5100 ft
 Location Latitude Longitude
 43.98333 -118.98333
 NOB 78

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	10	54
25	10	54
30	11	55
50	11	57
100	11	58

Station Name Schneider Meadows
 Elevation 5400 ft
 Location Latitude Longitude
 45 -117.15
 NOB 77

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	45	234
25	46	238
30	46	241
50	48	249
100	50	259

Station Name Schoolmarm (Disc)
 Elevation 4780 ft
 Location Latitude Longitude
 45.16667 -118.5
 NOB 33

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	9	49
25	10	51
30	10	52
50	11	55
100	11	58

Station Name Silvies
 Elevation 6900 ft
 Location Latitude Longitude
 42.75 -118.68333
 NOB 78

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	22	114
25	22	116
30	23	117
50	23	121
100	24	124

Station Name Stinking Water
 Elevation 4800 ft
 Location Latitude Longitude
 43.7 -118.53333
 NOB 55

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	8	44
25	9	45
30	9	47
50	10	50
100	11	55

Station Name Taylor Green (Disc)
 Elevation 5740 ft
 Location Latitude Longitude
 45.16667 -117.73333
 NOB 77

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	28	145
25	29	149
30	29	152
50	31	160
100	33	171

Station Name Tipton
 Elevation 5100 ft
 Location Latitude Longitude
 44.66667 -118.36667
 NOB 82

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	16	85
25	17	87
30	17	89
50	18	93
100	19	98

Station Name Tollgate
 Elevation 5070 ft
 Location Latitude Longitude
 45.78658 -118.10815
 NOB 79

Return Period (Years)	Snow Water Equivalent (in)	Ground Snow Load (PSF)
20	44	227
25	44	231
30	45	234
50	47	242
100	48	251

APPENDIX M: Metadata of Stations

Table M-1: Metadata of Idaho NRCS Stations

Station Name	Station Number	Elevation (Ft)	Latitude	Longitude	State	County Name
BOULDER CREEK (DISC)	16D01	5440	45.06667	-116.45000	ID	ADAMS
BRUNDAGE MOUNTAIN (DISC)	16D06	7560	45.00000	-116.13333	ID	ADAMS
WEST BRANCH (DISC)	16D08	5560	45.06667	-116.43333	ID	ADAMS
ROCK FLAT SUMMIT (DISC)	16E01	5310	44.93333	-116.15000	ID	ADAMS
SQUAW FLAT (DISC)	16E05	6240	44.76667	-116.25000	ID	ADAMS
MESA DITCH	16E19	3450	44.63333	-116.36666	ID	ADAMS
BRUNDAGE RESERVOIR	370	6250	45.04315	-116.13253	ID	ADAMS
SEDGWICK PEAK (DISC)	11G30	7850	42.53333	-111.96667	ID	BANNOCK
DEMPEY CREEK (DISC)	12G05	6100	42.55000	-112.05000	ID	BANNOCK
LOWER ELKHORN (DISC)	12G11	6960	42.35000	-112.30000	ID	BANNOCK
TWITCHELL CANYON (DISC)	12G19	6300	42.96667	-112.13333	ID	BANNOCK
NORTH PUTNAM (DISC)	12G20	7240	42.96667	-112.15000	ID	BANNOCK
BEAVERDAM CREEK (DISC)	12G21	6120	42.55000	-112.00000	ID	BANNOCK
SLUG CREEK DIVIDE (DISC)	11G05	7225	42.56667	-111.30000	ID	BEAR LAKE
MONTPELIER CREEK (DISC)	11G18	6540	42.36667	-111.16667	ID	BEAR LAKE
LITTLE BEAVER (DISC)	11G20	6970	42.43333	-111.18333	ID	BEAR LAKE
WHISKEY FLAT (DISC)	11G21	6960	42.43333	-111.16667	ID	BEAR LAKE
UPPER HOME CANYON	11G26	8560	42.41667	-111.23333	ID	BEAR LAKE
LOWER HOME CANYON	11G27	7640	42.38333	-111.21667	ID	BEAR LAKE
GIVEOUT (DISC)	11G33	6930	42.41667	-111.16667	ID	BEAR LAKE
SHEEP MOUNTAIN (DISC)	11F11	6570	43.21667	-111.68333	ID	BINGHAM
MUD CREEK	11F14	7100	43.28333	-111.88333	ID	BINGHAM
BLUE RIDGE	11F17	6780	43.20000	-111.85000	ID	BINGHAM
GARFIELD R.S. (DISC)	13F04	6560	43.61667	-113.93333	ID	BLAINE
MULDOON	13F05	6320	43.56667	-113.91667	ID	BLAINE
TELFER RANCH	13F06	5840	43.53333	-113.76667	ID	BLAINE
SWEDE PEAK (DISC)	13F09	7640	43.61667	-113.96667	ID	BLAINE
IRON MINE CREEK	13F10	6300	43.55000	-113.71667	ID	BLAINE
DRY FORK	13F20	7220	43.58333	-113.68333	ID	BLAINE
LOST-WOOD DIVIDE (DISC)	14F03	7900	43.83333	-114.26667	ID	BLAINE
GRAHAM RANCH (DISC)	14F05	6270	43.78333	-114.41667	ID	BLAINE
MASCOT MINE (DISC)	14F07	7780	43.70000	-114.10000	ID	BLAINE
MOUNT BALDY	14F09	8920	43.66667	-114.40000	ID	BLAINE
GALENA SUMMIT (DISC)	14F12	8780	43.85000	-114.71667	ID	BLAINE

HYNDMAN (DISC)	14F16	7440	43.70000	-114.16667	ID	BLAINE
GALENA NEW (DISC)	14F17	7470	43.88333	-114.66667	ID	BLAINE
KETCHUM R S	14F21	5890	43.68333	-114.35000	ID	BLAINE
CHOCOLATE GULCH	895	6440	43.76850	-114.41812	ID	BLAINE
JACKSON PEAK (DISC)	15E09	7070	44.05000	-115.45000	ID	BOISE
DEADWOOD AIRSTRIP (DISC)	15E10	5360	44.30000	-115.65000	ID	BOISE
BANNER SUMMIT (DISC)	15E11	7040	44.30000	-115.23333	ID	BOISE
MOORES CREEK SUMMIT	15F01	6100	43.91667	-115.66667	ID	BOISE
BAD BEAR	15F02	4940	43.90000	-115.70000	ID	BOISE
IDAHO CITY TOWNSITE	15F16	4000	43.83333	-115.83333	ID	BOISE
DEADMAN GULCH	16F01	5600	43.91667	-116.01667	ID	BOISE
BOGUS BASIN	16F02	6340	43.76667	-116.10000	ID	BOISE
BOGUS BASIN ROAD	16F04	5540	43.73333	-116.13333	ID	BOISE
MORES CREEK SUMMIT	637	6100	43.93200	-115.66588	ID	BOISE
BENTON MEADOW	16A02	2370	48.35000	-116.83333	ID	BONNER
BENTON SPRING	16A03	4920	48.35000	-116.76667	ID	BONNER
SCHWEITZER RIDGE (DISC)	16A05	6200	48.36667	-116.63333	ID	BONNER
BEAR MOUNTAIN (DISC)	16A08	5400	48.30000	-116.08333	ID	BONNER
SANDPOINT EXP STN	16A11	2100	48.28333	-116.56667	ID	BONNER
SCHWEITZER SADDLE	1038	6110	48.37442	-116.63845	ID	BONNER
BIRCH CREEK (DISC)	11F03	6800	43.45000	-111.58333	ID	BONNEVILLE
TEX CREEK (DISC)	11F05	6650	43.36667	-111.58333	ID	BONNEVILLE
BONE	11F08	6200	43.30000	-111.78333	ID	BONNEVILLE
LAVA CREEK	11F15	7350	43.30000	-111.51667	ID	BONNEVILLE
BROCKMAN STATION (DISC)	11F16	6430	43.23333	-111.45000	ID	BONNEVILLE
FALL CREEK	11F19	6820	43.46667	-111.55000	ID	BONNEVILLE
SMITH CREEK	16A01	4800	48.86667	-116.75000	ID	BOUNDARY
HIDDEN LAKE	988	5040	48.89370	-116.75755	ID	BOUNDARY
MYRTLE CREEK	1053	3520	48.72263	-116.46312	ID	BOUNDARY
LEADBELT (DISC)	13F12	6700	43.63333	-113.71667	ID	BUTTE
COUCH SUMMIT (DISC)	14F10	6840	43.51667	-114.80000	ID	CAMAS
SOLDIER R.S. (DISC)	14F11	5740	43.48333	-114.81667	ID	CAMAS
MUD SPRING	14F20	5600	43.20000	-114.66666	ID	CAMAS
CHIMNEY CREEK	15F15	6400	43.43333	-115.03333	ID	CAMAS
SOMSSEN RANCH (DISC)	11G01	6800	42.95000	-111.36667	ID	CARIBOU
AUSTIN BROS. RANCH (DISC)	11G03	6400	42.78333	-111.43333	ID	CARIBOU
SULPHUR PEAK (DISC)	11G31	7070	42.65000	-111.45000	ID	CARIBOU
ALLEN RANCH	11G35	6470	42.76667	-111.41667	ID	CARIBOU
JOHNSON CREEK	11G36	6730	42.66667	-111.43333	ID	CARIBOU

WOOD CANYON DIVIDE	11G37	7450	42.68333	-111.45000	ID	CARIBOU
PEBBLE CREEK	12G02	6400	42.76667	-112.10000	ID	CARIBOU
LOWER PEBBLE	12G06	5780	42.73333	-112.05000	ID	CARIBOU
PUTNAM (DISC)	12G14	7220	42.93333	-112.10000	ID	CARIBOU
TOPONCE (DISC)	12G15	6160	42.86667	-112.08333	ID	CARIBOU
COLD SPRINGS (DISC)	12G16	7000	42.80000	-112.11667	ID	CARIBOU
SOUTH MOUNTAIN (DISC)	16G01	6500	42.76667	-116.90000	ID	CARIBOU
HOWELL CANYON (DISC)	13G01	7980	42.31667	-113.61667	ID	CASSIA
BOY SCOUT CAMP	13G02	7740	42.21667	-113.66667	ID	CASSIA
LOGGER SPRINGS	13G03	8120	42.15000	-113.73333	ID	CASSIA
INDIAN GROVE (DISC)	13G04	7560	42.11667	-113.73333	ID	CASSIA
BOSTETTER R.S. (DISC)	14G01	7500	42.16667	-114.18333	ID	CASSIA
BADGER GULCH	14G03	6660	42.10000	-114.16667	ID	CASSIA
BLUE LEDGE MINE (DISC)	11E11	6900	44.43333	-112.00000	ID	CLARK
KILGORE	11E12	6320	44.40000	-111.90000	ID	CLARK
CAMP CREEK	12E03	6580	44.45000	-112.23333	ID	CLARK
IRVING CREEK	12E04	7280	44.43333	-112.60000	ID	CLARK
WEBBER CREEK	12E05	6700	44.35000	-112.66667	ID	CLARK
GOAT LAKE (DISC)	14C09	6500	46.66667	-114.81667	ID	CLEARWATER
CAYUSE AIRSTRIP (DISC)	15C03	3500	46.66667	-115.06667	ID	CLEARWATER
SHANGHI SUMMIT (DISC)	15C04	4570	46.56667	-115.75000	ID	CLEARWATER
PIERCE RANGER STATION	15C05	3080	46.50000	-115.80000	ID	CLEARWATER
HEMLOCK BUTTE (DISC)	15C06	5810	46.48333	-115.63333	ID	CLEARWATER
CRATER MEADOWS (DISC)	15C09	5960	46.56667	-115.28333	ID	CLEARWATER
COOL CREEK (DISC)	15C16	6280	46.76667	-115.30000	ID	CLEARWATER
ELK BUTTE OLD (DISC)	16C15	5380	46.83333	-116.11667	ID	CLEARWATER
ELK BUTTE NEW (DISC)	16C20	5690	45.85000	-116.11667	ID	CLEARWATER
WET CREEK SUMMIT (DISC)	13E07	7680	44.01667	-113.46667	ID	CUSTER
BORAH (DISC)	13E08	8250	44.18333	-113.73333	ID	CUSTER
LEATHERMAN PASS (DISC)	13E24	9860	44.08333	-113.75000	ID	CUSTER
DOUBLE SPRINGS PASS	13E25	8400	44.21667	-113.83333	ID	CUSTER
COPPER BASIN	13F02	7640	43.81667	-113.91667	ID	CUSTER
BEAR CANYON (DISC)	13F03	7900	43.75000	-113.93333	ID	CUSTER
FISHPOLE LAKE	13F08	9300	43.65000	-113.85000	ID	CUSTER
IRON BOG (DISC)	13F11	7650	43.66667	-113.81667	ID	CUSTER
MILL CREEK SUMMIT (DISC)	14E01	8800	44.46667	-114.46667	ID	CUSTER
REDFISH LAKE FLAT (DISC)	14E07	6560	44.15000	-114.91667	ID	CUSTER

BRUNO CREEK	14E08	7920	44.35000	-114.53333	ID	CUSTER
STICKNEY MILL (DISC)	14F02	7430	43.86667	-114.21667	ID	CUSTER
VIENNA MINE (DISC)	14F04	8960	43.80000	-114.85000	ID	CUSTER
DOLLARHIDE SUMMIT (DISC)	14F08	8420	43.60000	-114.66667	ID	CUSTER
SMILEY MOUNTAIN	926	9520	43.72718	-113.83402	ID	CUSTER
ROAD CREEK (DISC)	15F03	5380	43.80000	-115.53333	ID	ELMORE
ATLANTA SUMMIT (DISC)	15F04	7580	43.75000	-115.23333	ID	ELMORE
TRINITY MOUNTAIN (DISC)	15F05	7770	43.63333	-115.43333	ID	ELMORE
PRAIRIE (DISC)	15F06	4800	43.50000	-115.58333	ID	ELMORE
BENNETT MOUNTAIN (DISC)	15F07	6560	43.26667	-115.43333	ID	ELMORE
CAMAS CREEK DIVIDE	15F09	5710	43.26667	-115.35000	ID	ELMORE
LITTLE CAMAS FLAT	15F12	4940	43.33333	-115.40000	ID	ELMORE
GRAHAM GUARD STATION	15F14	5690	43.95000	-115.26667	ID	ELMORE
ATLANTA TOWNSITE (DISC)	15F17	5370	43.80000	-115.13333	ID	ELMORE
RATTLESNAKE SPRING	15F19	3950	43.20000	-115.55000	ID	ELMORE
TOLLGATE	15F20	4590	43.23333	-115.58333	ID	ELMORE
WILLOW FLAT	11G04	6070	42.14033	-111.62667	ID	FRANKLIN
EMIGRANT SUMMIT (DISC)	11G06	7390	42.36667	-111.56667	ID	FRANKLIN
EMIGRATION CANYON	11G07	6500	42.36400	-111.50600	ID	FRANKLIN
FRANKLIN BASIN (DISC)	11G08	8040	42.05000	-111.61667	ID	FRANKLIN
STRAWBERRY CREEK	11G09	5820	42.31000	-111.66900	ID	FRANKLIN
STRAWBERRY MINK DIV.	11G10	6720	42.30000	-111.61667	ID	FRANKLIN
CHRISTENSEN RANCH (DISC)	11G11	5560	42.26667	-111.65000	ID	FRANKLIN
CUB RIVER R.S. (DISC)	11G12	5450	42.13333	-111.66667	ID	FRANKLIN
LIBERTY SPRING (DISC)	11G13	8600	42.30000	-111.58333	ID	FRANKLIN
DRY BASIN	11G14	7820	42.26500	-111.60050	ID	FRANKLIN
HORSESHOE BASIN (DISC)	11G15	8000	42.25000	-111.60000	ID	FRANKLIN
WORM CREEK	11G28	6620	42.18250	-111.67698	ID	FRANKLIN
VALLEY VIEW	11E08	6680	44.63333	-111.31667	ID	FREMONT
BIG SPRINGS	11E09	6400	44.48333	-111.26667	ID	FREMONT
ISLAND PARK (DISC)	11E10	6290	44.41667	-111.38333	ID	FREMONT
LUCKY DOG	11E14	6860	44.48333	-111.21667	ID	FREMONT
LATHAM SPRINGS	11E16	7630	44.46667	-111.15000	ID	FREMONT
BLACK CANYON (DISC)	11E18	7960	44.46667	-111.10000	ID	FREMONT
BLACK MOOSE (DISC)	11E19	8160	44.50000	-111.13333	ID	FREMONT
SAWTELL MOUNTAIN (DISC)	11E32	8720	44.55000	-111.43333	ID	FREMONT
TARGHEE PASS (DISC)	11E34	6980	44.66667	-111.28333	ID	FREMONT

WHITE ELEPHANT (DISC)	11E36	7710	44.53333	-111.41667	ID	FREMONT
DODSON PASS	16E15	4260	44.33333	-116.33333	ID	GEM
SAVAGE PASS (DISC)	14C04	6170	46.46667	-114.63333	ID	IDAHO
LOLO PASS (DISC)	14C05	5240	46.63333	-114.58333	ID	IDAHO
CROOKED FORK	14C11	3610	46.51667	-114.68333	ID	IDAHO
KIT CARSON PASTURE	14D03	4950	45.70000	-114.61667	ID	IDAHO
FISH LAKE AIRSTRIP	15C02	5650	46.33333	-115.06667	ID	IDAHO
COOLWATER MOUNTAIN	15C07	6040	46.16667	-115.50000	ID	IDAHO
BUCK MEADOWS (DISC)	15D05	5650	45.98333	-115.43333	ID	IDAHO
MOUNTAIN MEADOWS (DISC)	15D06	6360	45.70000	-115.23333	ID	IDAHO
LOWER SANDS CREEK (DISC)	16B01	3120	47.73333	-116.48333	ID	KOOTENAI
COPPER RIDGE (DISC)	16B02	4820	47.71667	-116.50000	ID	KOOTENAI
FOURTH OF JULY SUMMIT	16B03	3200	47.61667	-116.51667	ID	KOOTENAI
SAGE CREEK SADDLE	16B06	4080	47.86667	-116.58333	ID	KOOTENAI
CHILCO RIDGE (DISC)	16B08	3650	47.85000	-116.58333	ID	KOOTENAI
CORNER CREEK	16B09	3150	47.83333	-116.58333	ID	KOOTENAI
TWIN SPIRIT DIVIDE	16B12	3480	47.90000	-117.00000	ID	KOOTENAI
EAST RAGGED SADDLE	17B03	3740	47.85000	-117.01667	ID	KOOTENAI
RAGGED MOUNTAIN	17B06	4200	47.85000	-117.03333	ID	KOOTENAI
SHERWIN (DISC)	16C01	3200	46.95000	-116.33333	ID	LATAH
MOSCOW MOUNTAIN	16C02	4410	46.81667	-116.88333	ID	LATAH
EAST TWIN (DISC)	16C03	4130	46.81667	-116.90000	ID	LATAH
WEST TWIN (DISC)	16C04	4220	46.81667	-116.91667	ID	LATAH
MOOSE CREEK (DISC)	13D16	6200	45.66667	-113.95000	ID	LEMHI
LOST GARFIELD (DISC)	13E03	6600	44.31667	-113.33333	ID	LEMHI
SAWMILL CANYON (DISC)	13E04	7000	44.36667	-113.38333	ID	LEMHI
FAIRVIEW G.S. (DISC)	13E05	6750	44.33333	-113.35000	ID	LEMHI
MOONSHINE (DISC)	13E06	7440	44.41667	-113.41667	ID	LEMHI
SCHWARTZ LAKE	13E16	8540	44.85000	-113.83333	ID	LEMHI
COPE'S CAMP	13E17	7520	44.85000	-113.81667	ID	LEMHI
MEADOW LAKE (DISC)	13E18	9150	44.43333	-113.31667	ID	LEMHI
ABOVE GILMORE	13E19	8240	44.45000	-113.30000	ID	LEMHI
HALL CREEK (DISC)	13E20	7560	44.75000	-113.18333	ID	LEMHI
ASPEN HALL PASS AM	13E21	8200	44.75000	-113.15000	ID	LEMHI
MORSE CREEK SAWMILL	13E26	7120	44.65000	-113.76667	ID	LEMHI
JAKES CANYON	13E28	9040	44.78333	-113.35000	ID	LEMHI
HAHN HOMESTEAD	13E29	7500	44.35000	-113.23333	ID	LEMHI
SPRING MOUNTAIN CANYON	13E30	8800	44.35000	-113.25000	ID	LEMHI

WILLIAMS CREEK SMT.	14D04	7990	45.10000	-114.08333	ID	LEMHI
PERREAU MEADOWS	14D05	8500	45.13333	-114.06667	ID	LEMHI
COUGAR POINT	14D06	6780	45.08333	-114.06667	ID	LEMHI
TWIN PEAKS (DISC)	14E03	9190	44.60000	-114.46667	ID	LEMHI
MORGAN CREEK (DISC)	14E04	7600	44.85000	-114.26667	ID	LEMHI
WEBB CREEK #2	16C21	4720	46.15000	-116.76666	ID	NEZ PERCE
UPPER ELKHORN	12G10	7140	42.34615	-112.31017	ID	ONEIDA
DANIELS CREEK	12G12	6270	42.39500	-112.34600	ID	ONEIDA
CLIFF CANYON (DISC)	12G13	7200	42.38333	-112.31667	ID	ONEIDA
OXFORD SPRING (DISC)	12G18	6740	42.26667	-112.13333	ID	ONEIDA
SILVER CITY	16F03	6400	43.00000	-116.73333	ID	OWYHEE
SUCCOR CREEK AM	16F06	6310	43.11658	-116.87715	ID	OWYHEE
REYNOLDS MOUNTAIN	16F08	6752	43.66660	-116.75000	ID	OWYHEE
REYNOLDS WEST FORK #2	16F09	6798	43.06667	-116.80000	ID	OWYHEE
REYNOLDS WEST FORK #1	16F10	6952	43.66660	-116.80000	ID	OWYHEE
REYNOLDS-DOBSON DIVIDE	16F11	7064	43.08333	-116.81667	ID	OWYHEE
DOBSON CREEK	16F12	7084	43.08333	-116.83333	ID	OWYHEE
DEMOCRAT CREEK	16F13	5686	43.08333	-116.78333	ID	OWYHEE
HYDE PASTURE AM (DISC)	16G05	5760	42.68333	-116.61667	ID	OWYHEE
ANTELOPE RIDGE (DISC)	16G06	6180	42.65000	-116.43333	ID	OWYHEE
MUD FLAT (DISC)	16G07	5730	42.60000	-116.55000	ID	OWYHEE
BATTLE CREEK AM	16G09	5710	42.47742	-116.32585	ID	OWYHEE
BULL BASIN AM	16G10	5460	42.35000	-116.96667	ID	OWYHEE
RED CANYON AM	16G11	6600	42.42817	-116.84653	ID	OWYHEE
VAUGHT RANCH AM	16G12	5850	42.49475	-116.43665	ID	OWYHEE
WAR EAGLE (DISC)	16G13	7720	42.96667	-116.70000	ID	OWYHEE
REYNOLDS CREEK	2029	5600	43.28868	-116.84923	ID	OWYHEE
MINK CREEK (DISC)	12G01	6410	42.76667	-112.48333	ID	POWER
SUBLETT	12G08	5950	42.38333	-112.96667	ID	POWER
WILDHORSE DIVIDE (DISC)	12G17	6490	42.75000	-112.48333	ID	POWER
LOOKOUT (DISC)	15B02	5140	47.45000	-115.70000	ID	SHOSHONE
FORTY-NINE MEADOWS	15B03	4830	47.10000	-115.88333	ID	SHOSHONE
ROLAND SUMMIT	15B05	5120	47.40000	-115.65000	ID	SHOSHONE
ABOVE RONALD	15B07	4350	47.38333	-115.66667	ID	SHOSHONE
SUNSET (DISC)	15B09	5540	47.55000	-115.81667	ID	SHOSHONE
GRANITE PEAK (DISC)	15B13	6000	47.01667	-115.45000	ID	SHOSHONE
LOST LAKE (DISC)	15B14	6110	47.08333	-115.96667	ID	SHOSHONE
BREEZY SADDLE (DISC)	15B20	5010	47.10000	-115.90000	ID	SHOSHONE

HUMBOLDT GULCH (DISC)	15B21	4250	47.53333	-115.78333	ID	SHOSHONE
MOSQUITO RIDGE (DISC)	16A04	5200	48.05000	-116.23333	ID	SHOSHONE
KELLOGG PEAK	16B05	5560	47.50000	-116.11667	ID	SHOSHONE
MICA CREEK	623	4510	47.15083	-116.26694	ID	SHOSHONE
STATE LINE	11F01	6660	43.55000	-111.05000	ID	TETON
PINE CREEK PASS (DISC)	11F02	6720	43.56667	-111.21667	ID	TETON
MC RENOLDS RESERVOIR	11F12	6720	43.96667	-111.06667	ID	TETON
PACKSADDLE SPRING	11F18	8200	43.71667	-111.35000	ID	TETON
MAGIC MOUNTAIN (DISC)	14G02	6880	42.18333	-114.30000	ID	TWIN FALLS
CEDAR CREEK (DISC)	14G05	6800	42.10000	-114.90000	ID	TWIN FALLS
SHOSHONE BASIN (DISC)	14G06	5810	42.18333	-114.40000	ID	TWIN FALLS
LANGFORD FLAT CREEK	14G08	5980	42.13333	-114.38333	ID	TWIN FALLS
WILSON CREEK	15G02	7120	42.01667	-115.00000	ID	TWIN FALLS
LONG VALLEY	1016	4890	44.78835	-116.08878	ID	VALLEY
SECESH SUMMIT (DISC)	15D01	6520	45.18333	-115.96667	ID	VALLEY
SQUAW MEADOW	15D02	5900	45.15000	-116.00000	ID	VALLEY
LAKE FORK	15E01	5290	44.91667	-115.95000	ID	VALLEY
CRAWFORD R.S. (DISC)	15E03	4860	44.53333	-115.98333	ID	VALLEY
DEADWOOD SUMMIT (DISC)	15E04	6860	44.55000	-115.56667	ID	VALLEY
COZY COVE (DISC)	15E08	5380	44.28333	-115.65000	ID	VALLEY
TRIPOD SUMMIT	16E03	5260	44.28333	-116.13333	ID	VALLEY
BEAR BASIN (DISC)	16E11	5350	44.95000	-116.15000	ID	VALLEY
MCCALL U OF I CAMPUS	16E20	5020	44.93333	-116.08333	ID	VALLEY
BIG CREEK SUMMIT (DISC)	1500	6580	44.63333	-115.80000	ID	VALLEY
PLACER CREEK	16E02	5860	44.81667	-116.70000	ID	WASHINGTON
STURGILL RIDGE (DISC)	16E08	6680	44.60000	-115.95000	ID	WASHINGTON
MANN CREEK (DISC)	16E09	6080	44.61667	-116.96667	ID	WASHINGTON
BEAR SADDLE (DISC)	16E10	6180	44.60000	-116.96667	ID	WASHINGTON
VAN WYCK	16E14	4920	44.36667	-116.33333	ID	WASHINGTON
SHIRTS CREEK	16E16	4425	44.41667	-116.43333	ID	WASHINGTON
NORTH CRANE CREEK	16E17	4419	44.31667	-116.40000	ID	WASHINGTON
ROBINSON CR. RIDGE (DISC)	17E01	6220	44.58333	-117.01667	ID	WASHINGTON
THORSON CABIN	17E02	5320	44.56667	-117.00000	ID	WASHINGTON
THORSON CABIN #2	17E06	5100	44.55000	-117.00000	ID	WASHINGTON

Table M-2: Metadata of Idaho NWS Stations

Station Name	Station Number	Elevation (Ft)	Latitude	Longitude	State	County Name
BOISE AIR TERMINAL	101022	2814	43.56667	-116.24056	ID	ADA
KUNA	105038	2690	43.48333	-116.41667	ID	ADA
SWAN FALLS P H	108928	2325	43.24361	-116.37833	ID	ADA
COUNCIL	102187	2943	44.74417	-116.4325	ID	ADAMS
NEW MEADOWS RANGER S	106388	3862	44.97139	-116.29333	ID	ADAMS
LIFTON PUMPING STN	105275	5935	42.12306	-111.31333	ID	BEAR LAKE
MONTPELIER RS	106053	5960	42.31667	-111.3	ID	BEAR LAKE
SAINT MARIES	108062	2151	47.31639	-116.57889	ID	BENEWAH
Tensed (BENEWAH)	109029	2560	47.167	-116.9167	ID	BENEWAH
ABERDEEN EXP STN	100010	4405	42.95361	-112.82528	ID	BINGHAM
BLACKFOOT	100915	4536	43.19694	-112.35306	ID	BINGHAM
FT HALL 1 NNE	103297	4465	43.04278	-112.41333	ID	BINGHAM
GALENA	103417	7300	43.87222	-114.65417	ID	BLAINE
HAILEY 3 NNW	103942	5424	43.56667	-114.33333	ID	BLAINE
PICABO	107040	4839	43.30861	-114.06667	ID	BLAINE
SUN VALLEY	108906	5820	43.7	-114.35	ID	BLANE
CENTERVILLE ARBAUGH RC	101636	4440	43.95917	-115.84528	ID	BOISE
DEER POINT	102451	7044	43.75	-116.1	ID	BOISE
GARDEN VALLEY	103448	3100	44.10111	-115.96944	ID	BOISE
IDAHO CITY	104442	3965	43.83833	-115.83194	ID	BOISE
LOWMAN 3E #2	105426	3983	44.08333	-115.56667	ID	BOISE
CABINET GORGE	101363	2173	48.08639	-116.05722	ID	BONNER
PRIEST RIVER EXP STN	107386	2371	48.35111	-116.83528	ID	BONNER
SANDPOINT EXP STN	108137	2126	48.29417	-116.56278	ID	BONNERS
IDAHO FALLS 2 ESE	104455	4742	43.51389	-112.0125	ID	BONNEVILLE
IDAHO FALLS 16 SE	104456	5828	43.34556	-111.78472	ID	BONNEVILLE
IDAHO FALLS FANNING FLD	104457	4729	43.51639	-112.06722	ID	BONNEVILLE
IRWIN 2 SE	104588	5305	43.4	-111.3	ID	BONNEVILLE
PALISADES	106764	5385	43.35	-111.21667	ID	BONNEVILLE
SWAN VALLEY	108937	5397	43.43722	-111.27917	ID	BONNEVILLE
BONNERS FERRY	101079	2075	48.69278	-116.31028	ID	BOUNDARY
PORTHILL	107264	1799	48.99944	-116.49917	ID	BOUNDARY
CRATERS OF THE MOON	102260	5897	43.465	-113.55806	ID	BUTTE
HOWE	104384	4820	43.78278	-113.00333	ID	BUTTE

IDAHO FALLS 46 W	104460	4938	43.53167	-112.94222	ID	BUTTE
FAIRFIELD RS	103108	5065	43.34278	-114.79	ID	CAMAS
HILL CITY	104268	5100	43.29944	-115.07333	ID	CAMAS
CALDWELL	101380	2370	43.66667	-116.68333	ID	CANYON
DEER FLAT DAM	102444	2510	43.57639	-116.7475	ID	CANYON
PARMA EXP STN	106844	2290	43.80222	-116.94417	ID	CANYON
CONDA	102071	6204	42.71667	-111.55	ID	CARIBOU
GRACE	103732	5550	42.58722	-111.7275	ID	CARIBOU
BURLEY MUNI AP	101303	4142	42.54167	-113.76611	ID	CASSIA
MALTA 4 ESE	105563	4590	42.29167	-113.30417	ID	CASSIA
MINIDOKA 10WNW	105972	4290	42.78333	-113.66667	ID	CASSIA
MINIDOKA DAM	105980	4164	42.67667	-113.50028	ID	CASSIA
OAKLEY	106542	4559	42.23417	-113.89806	ID	CASSIA
STREVELL	108786	5280	42.01667	-113.25	ID	CASSIA
DUBOIS EXP ST	102707	5450	44.24361	-112.20056	ID	CLARK
KILGORE	104908	6155	44.4	-111.88333	ID	CLARK
SPENCER	108604	5892	44.36056	-112.18639	ID	CLARK
DWORSHAK FISH HATCHERY	102845	995	46.50222	-116.32167	ID	CLEARWATER
ELK RIVER 1 S	102892	2918	46.77444	-116.17611	ID	CLEARWATER
HEADQUARTERS	104150	3200	46.63111	-115.80861	ID	CLEARWATER
OROFINO	106681	1320	46.48333	-116.26667	ID	CLEARWATER
PIERCE	107046	3080	46.49222	-115.80056	ID	CLEARWATER
CHALLIS	101663	5175	44.50361	-114.23972	ID	CUSTER
CHILLY BARTON FLAT	101671	6260	43.97722	-113.82889	ID	CUSTER
GROUSE	103882	6001	43.71861	-113.54722	ID	CUSTER
MACKAY LOST RIVER RS	105462	5897	43.91806	-113.63167	ID	CUSTER
MIDDLE FORK LODGE	105897	4480	44.71889	-115.015	ID	CUSTER
OBSIDIAN 3 SSE	106553	6873	44.03333	-114.83333	ID	CUSTER
STANLEY	108676	6260	44.22056	-114.93417	ID	CUSTER
ANDERSON DAM	100282	3882	43.35722	-115.45222	ID	ELMORE
ARROWROCK DAM	100448	3235	43.59361	-115.92361	ID	ELMORE
ATLANTA	100491	5505	43.8	-115.13333	ID	ELMORE
GLENNS FERRY	103631	2466	42.94028	-115.32306	ID	ELMORE
MTN HOME	106174	3140	43.12611	-115.71194	ID	ELMORE
PRESTON	107346	4800	42.09333	-111.86833	ID	FRANKLIN
PRESTON SUGAR FACTOR	107353	4724	42.06667	-111.85	ID	FRANKLIN
ASHTON	100470	5212	44.0425	-111.27389	ID	FREMONT
ISLAND PARK	104598	6290	44.41889	-111.37139	ID	FREMONT
SAINT ANTHONY	108022	4910	43.95167	-111.67889	ID	FREMONT

EMMETT 2 E	102942	2390	43.85444	-116.46639	ID	GEM
OLA 4 S	106590	2990	44.13333	-116.28333	ID	GEM
BLISS	101002	3275	42.95444	-115.01306	ID	GOODING
COTTONWOOD	102154	3412	46.01667	-116.33333	ID	IDAHO
DIXIE	102575	5620	45.5525	-115.46056	ID	IDAHO
ELK CITY 1NE	102875	4058	45.83556	-115.46111	ID	IDAHO
FENN RS	103143	1560	46.09306	-115.53556	ID	IDAHO
GRANGEVILLE	103771	3300	45.94139	-116.1175	ID	IDAHO
GRANGEVILLE 11 SE	103780	2250	45.83333	-115.93333	ID	IDAHO
KOOSKIA	105011	1280	46.15	-115.98333	ID	IDAHO
North Star Ranch	106493	2800	45.91667	-114.833333	ID	IDAHO
POWELL	107320	3530	46.51	-114.71111	ID	IDAHO
RIGGINS	107706	1800	45.42389	-116.315	ID	IDAHO
WARREN	109560	5907	45.26583	-115.67889	ID	IDAHO
HAMER 4 NW	103964	4790	43.96639	-112.26417	ID	JEFFERSON
HAZELTON	104140	4060	42.59722	-114.13778	ID	JEROME
JEROME	104670	3740	42.7325	-114.51917	ID	JEROME
BAYVIEW MODEL BASIN	100667	2087	47.98028	-116.55944	ID	KOOTENAI
COEUR D'ALENE	101956	2133	47.68222	-116.79667	ID	KOOTENAI
MOSCOW U OF I	106152	2660	46.72806	-116.95583	ID	LATAH
POTLATCH 3 NNE	107301	2760	46.96028	-116.855	ID	LATAH
COBALT	101932	5008	45.08333	-114.23333	ID	LEMHI
GIBBONSVILLE	103554	4480	45.53944	-113.9275	ID	LEMHI
MAY 2SSE	105685	5050	44.56639	-113.89528	ID	LEMHI
SALMON LEMHI CO AP	108076	4044	45.11667	-113.88333	ID	LEMHI
SALMON KSRA	108080	3931	45.1875	-113.90083	ID	LEMHI
SHOUP	108395	3400	45.37667	-114.2775	ID	LEMHI
NEZPERCE	106424	3248	46.2325	-116.24306	ID	LEWIS
WINCHESTER	109846	3972	46.23806	-116.62333	ID	LEWIS
RICHFIELD	107673	4282	43.05278	-114.15806	ID	LINCOLN
SHOSHONE 1 WNW	108380	3950	42.93833	-114.41694	ID	LINCOLN
SUGAR	108818	4925	43.88667	-111.73667	ID	MADISON
PAUL	106877	4150	42.62833	-113.76222	ID	MINIDOKA
RUPERT 3 WSW	107968	4200	42.60417	-113.7575	ID	MINIDOKA
LEWISTON WSO AP	105241	1440	46.3833	-117.0167	ID	NEW PERCE
MALAD	105544	4581	42.2	-112.26667	ID	ONEIDA
MALAD CITY AP	105559	4482	42.16667	-112.31667	ID	ONEIDA
GRAND VIEW 4 NW	103760	2400	43.0175	-116.17722	ID	OWYHEE
REYNOLDS	107648	3930	43.20639	-116.74944	ID	OWYHEE
THREE CREEK	109119	5460	42.08333	-115.15	ID	OWYHEE

PAYETTE	106891	2150	44.07639	-116.93111	ID	PAYETTE
AMERICAN FALLS 3 NW	100227	4415	42.85722	-112.88	ID	POWER
ARBON	100347	5210	42.50306	-112.57583	ID	POWER
POCATELLO RGNL AP	107211	4478	42.92028	-112.57111	ID	POWER
AVERY RS	100525	2490	47.25	-115.8	ID	SHOSHONE
CLARKIA	101831	2822	47.01111	-116.25583	ID	SHOSHONE
KELLOGG	104831	2377	47.53389	-116.12222	ID	SHOSHONE
MULLAN PASS	106235	3586	47.46667	-115.76667	ID	SHOSHONE
WALLACE	109493	2772	47.46667	-115.93333	ID	SHOSHONE
WALLACE WOODLAND PARK	109498	2710	47.47528	-115.93139	ID	SHOSHONE
DRIGGS	102676	6120	43.73056	-111.1125	ID	TETON
CASTLEFORD 2 N	101551	3825	42.55028	-114.86611	ID	TWIN FALLS
HOLLISTER	104295	4525	42.35278	-114.57389	ID	TWIN FALLS
TWIN FALLS 2 NNE	109294	3691	42.58333	-114.46667	ID	TWIN FALLS
TWIN FALLS 3 SE	109299	3773	42.53333	-114.41667	ID	TWIN FALLS
TWIN FALLS	109303	3960	42.54583	-114.34611	ID	TWIN FALLS
BIG CREEK	100835	5682	45.13333	-115.31667	ID	VALLEY
CASCADE 1 NW	101514	4896	44.52278	-116.04806	ID	VALLEY
DEADWOOD DAM	102385	5384	44.31667	-115.63333	ID	VALLEY
MCCALL	105708	5025	44.88722	-116.10472	ID	VALLEY
YELLOW PINE 7 S	109951	5100	44.85417	-115.51139	ID	VALLEY
BROWNLEE DAM	101180	1844	44.83639	-116.89806	ID	WASHINGTON
CAMBRIDGE	101408	2650	44.57333	-116.67528	ID	WASHINGTON
WEISER	109638	2120	44.24556	-116.96972	ID	WASHINGTON

Table M-3: Metadata of Montana NRCS Stations

Station Name	Station Number	Elevation (Ft)	Latitude	Longitude	State	County Name
LAKEVIEW RIDGE	11E03	7400	44.58907	-111.825	MT	BEAVERHEAD
LAKEVIEW CANYON	11E04	6930	44.5932	-111.817	MT	BEAVERHEAD
WHITE PINE RIDGE	12E01	8850	44.6154	-112.739	MT	BEAVERHEAD
GOLD STONE	13D09	8100	45.15785	-113.525	MT	BEAVERHEAD
BLOODY DICK	13D10	7600	45.16507	-113.501	MT	BEAVERHEAD
ELK HORN SPRINGS	13D15	7800	45.47072	-113.098	MT	BEAVERHEAD
DARKHORSE LAKE	13D19	8600	45.17367	-113.585	MT	BEAVERHEAD
ABUNDANCE LAKE	13D20	8800	45.58557	-113.006	MT	BEAVERHEAD
FOOLHEN	13D21	8280	45.75995	-113.18	MT	BEAVERHEAD
SLAG-A-MELT LAKE	13D24	8750	45.36235	-113.725	MT	BEAVERHEAD
JAHNKE LAKE TRAIL	13D27	7200	45.21665	-113.501	MT	BEAVERHEAD
LEMHI PASS	13E01	7480	44.98333	-113.433	MT	BEAVERHEAD
TRAIL CREEK	13E02	7090	44.96987	-113.435	MT	BEAVERHEAD
DAD CREEK LAKE	13E22	8800	44.77665	-113.122	MT	BEAVERHEAD
LEMHI RIDGE	13E23	8100	44.9938	-113.444	MT	BEAVERHEAD
INTERGAARD	13C04	6450	46.2138	-113.283	MT	DEER LODGE
STUART MILL	13C06	6500	46.16667	-113.267	MT	DEER LODGE
STORM LAKE	13C07	7780	46.08835	-113.268	MT	DEER LODGE
PALISADE CREEK	13D23	8250	45.95	-113.467	MT	DEER LODGE
MUDD LAKE	13D25	7650	45.91517	-113.416	MT	DEER LODGE
HELL ROARING DIVIDE	14A03	5770	48.49633	-114.356	MT	FLATHEAD
LOGAN CREEK	14A05	4300	48.326	-114.644	MT	FLATHEAD
KISHENEHN	14A06	3890	48.95832	-114.42	MT	FLATHEAD
GRIFFIN CREEK DIVIDE	14A09	5150	48.1982	-114.727	MT	FLATHEAD
NEW WORLD	10D01	6900	45.56311	-110.929	MT	GALLATIN
HOOD MEADOW	10D03	6600	45.48333	-110.967	MT	GALLATIN
DEVILS SLIDE	10D04	8100	45.4	-110.95	MT	GALLATIN
LICK CREEK	10D13	6860	45.5041	-110.966	MT	GALLATIN
ARCH FALLS	10D14	7350	45.42775	-110.96	MT	GALLATIN
SHOWER FALLS	10D16	8100	45.40125	-110.958	MT	GALLATIN
BEAR BASIN	11D09	8150	45.32334	-111.371	MT	GALLATIN
LITTLE PARK	11D10	7400	45.3092	-111.354	MT	GALLATIN
POTOMAGETON PARK	11E21	7150	44.92462	-111.361	MT	GALLATIN

CARROT BASIN	11E29	9000	44.96192	-111.294	MT	GALLATIN
WHISKEY CREEK	11E30	6800	44.61088	-111.15	MT	GALLATIN
SLIDE ROCK MOUNTAIN	13C02	7100	46.58515	-113.572	MT	GRANITE
SKALKAHO SUMMIT	13C03	7250	46.24212	-113.773	MT	GRANITE
EL DORADO MINE	13C09	7800	46.4338	-113.062	MT	GRANITE
GOLD CREEK LAKE	13C10	7200	46.44593	-113.058	MT	GRANITE
FRED BURR PASS	13C11	8000	46.3	-113.167	MT	GRANITE
BLACK PINE	13C13	7210	46.414	-113.431	MT	GRANITE
AMBROSE	13C16	6480	46.50792	-113.874	MT	GRANITE
COPPER MOUNTAIN	12C09	7700	46.01715	-112.424	MT	JEFFERSON
NEZ PERCE CREEK	12C10	6600	46.09907	-112.344	MT	JEFFERSON
ROCKER PEAK	12C11	8000	46.35613	-112.262	MT	JEFFERSON
STEMPLE PASS	12C01	6600	46.89093	-112.499	MT	LEWIS AND CLARK
TEN MILE LOWER	12C02	6600	46.45542	-112.288	MT	LEWIS AND CLARK
TEN MILE MIDDLE	12C03	6800	46.43643	-112.292	MT	LEWIS AND CLARK
TEN MILE UPPER	12C04	8000	46.41667	-112.283	MT	LEWIS AND CLARK
WEASEL DIVIDE	14A07	5450	48.95642	-114.756	MT	LINCOLN
GRAVE CREEK	14A11	4300	48.91453	-114.767	MT	LINCOLN
BRUSH CREEK TIMBER	14A13	5000	48.37007	-114.867	MT	LINCOLN
RED MOUNTAIN	15A01	6000	48.90922	-115.356	MT	LINCOLN
HAWKINS LAKE	15A03	6450	48.9723	-115.953	MT	LINCOLN
DAVIS CREEK	15A04	5400	48.94965	-115.938	MT	LINCOLN
GARVER CREEK	15A05	4250	48.97523	-115.819	MT	LINCOLN
BAREE CREEK	15B11	5500	47.96252	-115.539	MT	LINCOLN
BAREE TRAIL	15B15	3800	47.95203	-115.493	MT	LINCOLN
BAREE MIDWAY	15B16	4600	47.96132	-115.519	MT	LINCOLN
KEELER CREEK	16A09	3300	48.33333	-116.017	MT	LINCOLN
NORTH MEADOW	11D03	7500	45.55	-111.933	MT	MADISON
JACK CREEK	11D05	6650	45.33333	-111.55	MT	MADISON
CALL ROAD	11D07	8000	45.1286	-111.862	MT	MADISON
CLOVER MEADOW	11D08	8600	45.01788	-111.846	MT	MADISON
LOWER TWIN	11D11	7900	45.50871	-111.923	MT	MADISON
FOUR MILE	11D12	6900	45.52408	-111.886	MT	MADISON
BRANHAM LAKES	11D14	8850	45.51745	-111.994	MT	MADISON
MIDDLE MILL CREEK	11D15	7850	45.49402	-111.993	MT	MADISON
HEBGEN DAM	11E05	6550	44.87189	-111.344	MT	MADISON

SENTINEL CREEK	11E20	8300	44.96667	-111.383	MT	MADISON
LAKE CREEK	11E22	6100	44.8437	-111.589	MT	MADISON
TEPEE CREEK	11E24	8000	44.78562	-111.71	MT	MADISON
BERRY MEADOW	12C07	7000	46.18333	-112.267	MT	MADISON
CARTER CREEK	12D04	7400	45.132	-112.45	MT	MADISON
SMUGGLER MINE	12D05	6960	45.48023	-112.037	MT	MADISON
NOTCH	12E06	8500	44.88162	-112.135	MT	MADISON
DIVIDE	12E07	7800	44.79317	-112.056	MT	MADISON
HOODOO CREEK	15C01	5900	46.98333	-115.017	MT	MINERAL
HOODOO BASIN	15C10	6050	46.9751	-115.035	MT	MINERAL
STUART MOUNTAIN	13C01	7400	46.99523	-113.927	MT	MISSOULA
LUBRECHT FOREST NO 6	13C08	4040	46.89898	-113.453	MT	MISSOULA
LUBRECHT FOREST NO 3	13C21	5450	46.86552	-113.415	MT	MISSOULA
LUBRECHT FOREST NO 4	13C22	4650	46.86945	-113.459	MT	MISSOULA
TV MOUNTAIN	14B01	6800	47.01957	-114.014	MT	MISSOULA
CHESSMAN RESERVOIR	12C05	6200	46.47535	-112.187	MT	POWELL
EAST FORK R.S.	13D01	5400	45.92242	-113.726	MT	RAVALLI
SADDLE MOUNTAIN	13D22	7940	45.69259	-113.968	MT	RAVALLI
BASSOO PEAK	14B03	5150	47.85562	-114.758	MT	SANDERS
PIPESTONE PASS	12D01	7200	45.84997	-112.456	MT	SILVER BOW
TWENTY-ONE MILE	11E06	7150	44.92004	-111.055	MT	YELLOWSTONE NATIONAL PK.
WEST YELLOWSTONE	11E07	6700	44.65866	-111.092	MT	YELLOWSTONE NATIONAL PK.
MADISON PLATEAU	11E31	7750	44.58623	-111.116	MT	YELLOWSTONE NATIONAL PK.

Table M-4: Metadata of Montana NWS Stations

Station Name	Station Number	Elevation (ft)	Latitude	Longitude	State	County Name
DILLON WMCE	242409	5228	45.21278	-112.64472	MT	BEAVERHEAD
KALISPELL GLACIER AP	244558	2957	48.30417	-114.26361	MT	FLATHEAD
LIBBY 1 NE RS	245015	2096	48.40361	-115.53917	MT	LINCOLN

Table M-5: Metadata of Nevada NRCS Stations

Station Name	Station Number	Elevation (Ft)	Latitude	Longitude	State	County Name
AMERICAN BEAUTY - AERIAL MARKER	15J17	7800	40.53373	-115.45677	NV	ELKO
BEAR CREEK	321	8040	41.83417	-115.45222	NV	ELKO
BIG BEND	336	6700	41.76168	-115.6931	NV	ELKO
COLUMBIA BASIN - AERIAL MARKER	16H06	6650	41.67167	-116.07033	NV	ELKO
CORRAL CANYON	417	8500	40.27783	-115.53467	NV	ELKO
DORSEY BASIN	453	8100	40.89333	-115.20483	NV	ELKO
DRY CREEK	15J03	6500	40.86208	-115.22078	NV	ELKO
FAWN CREEK	476	7000	41.82098	-116.10153	NV	ELKO
FRY CANYON	15H07	6700	41.57872	-115.93182	NV	ELKO
GOAT CREEK	257	8800	41.83333	-115.15	NV	ELKO
GOLD CREEK	15H05	6707	41.75093	-115.67798	NV	ELKO
GREEN MOUNTAIN	503	8000	40.38433	-115.52517	NV	ELKO
HARRISON PASS #1	15J10	6600	40.32443	-115.56217	NV	ELKO
HOLE-IN-MOUNTAIN	527	7900	40.9427	-115.09572	NV	ELKO
JACK CREEK UPPER	548	7250	41.54675	-116.00517	NV	ELKO
JACK CREEK, LOWER	16H01	6800	41.53333	-116.03333	NV	ELKO
JAKES CREEK - AERIAL MARKER	14H04	7000	41.5687	-115.03243	NV	ELKO
LAMOILLE #1	15J04	7364	40.65802	-115.43415	NV	ELKO
LAMOILLE #3	570	7700	40.64517	-115.376	NV	ELKO
LAMOILLE #5	15J08	8814	40.60175	-115.37683	NV	ELKO
LAUREL DRAW	573	6697	41.77637	-116.02957	NV	ELKO
MERRITT MOUNTAIN - AERIAL MARKER	15H20	7000	41.89283	-115.85815	NV	ELKO
MIDAS	16H03	7200	41.26873	-116.80332	NV	ELKO
O'NEIL CREEK	15H25	6480	41.86667	-115.06667	NV	ELKO
POLE CANYON #2	15J20	7700	40.86235	-115.12092	NV	ELKO
POLE CREEK R.S.	698	8330	41.87306	-115.24694	NV	ELKO
ROBINSON LAKE - AERIAL MARKER	15J16	9200	40.7237	-115.27888	NV	ELKO
SEVENTYSIX CREEK	746	7100	41.73732	-115.47215	NV	ELKO
SMITH CREEK	15J19	7600	40.44675	-115.51147	NV	ELKO
SNOW STORM MOUNTAIN-AM	16H11	7420	41.33977	-116.98055	NV	ELKO
STAG MOUNTAIN AM	15H19	7800	41.40817	-115.44657	NV	ELKO
TAYLOR CANYON	811	6200	41.22933	-116.02883	NV	ELKO
TENT MTN., LOWER - AERIAL MARKER	15J22	7000	40.97852	-115.17215	NV	ELKO
TENT MTN., UPPER- AERIAL MARKER	15J23	8350	40.96535	-115.16458	NV	ELKO

TOE JAM - AERIAL MARKER	16H07	7700	41.32192	-116.33815	NV	ELKO
TREMEWAN RANCH	15H08	5700	41.29428	-115.78742	NV	ELKO
TROUT CREEK, LOWER	15H10	6900	41.06662	-115.09613	NV	ELKO
TROUT CREEK, UPPER - AM	15H11	8500	41.04393	-115.09555	NV	ELKO

Table M-6: Metadata of Nevada NWS Stations

Station Name	Station Number	Elevation (ft)	Latitude	Longitude	State	County Name
BEOVAWE	260795	4700	40.59028	-116.475	NV	ELKO
MONTELLO 2 SE	265352	4830	41.27833	-114.17083	NV	ELKO

Table M-7: Metadata of Oregon NRCS Stations

Station Name	Station Number	Elevation (ft)	Latitude	Longitude	State	County Name
BLUE MOUNTAIN SUMMIT (DISC)	18E13	5100	44.51667	-118.33333	OR	BAKER
DOOLEY MOUNTAIN	17E04	5440	44.56953	-117.8425	OR	BAKER
TIPTON	18E09	5100	44.66667	-118.36667	OR	BAKER
GOODRICH LAKE	18E06	6780	44.75	-118.08333	OR	BAKER
GOLD CENTER (REV)	18E08	5340	44.76667	-118.28333	OR	BAKER
BOURNE	18E05	5800	44.81667	-118.2	OR	BAKER
INTAKE HOUSE (DISC)	18E29	4930	44.91667	-117.98333	OR	BAKER
ANTHONY LAKE	18E01	7160	44.9591	-118.22668	OR	BAKER
SCHNEIDER MEADOWS	17D08	5400	45	-117.15	OR	BAKER
TAYLOR GREEN (DISC)	17D07	5740	45.16667	-117.73333	OR	BAKER
ROCK SPRINGS	18F01	5100	43.98333	-118.98333	OR	GRANT
CRANE PRAIRIE (DISC)	18E19	5380	44.08333	-118.45	OR	GRANT
FISH CREEK (DISC)	18G02	7900	42.7	-118.48333	OR	HARNEY
FISH CREEK (REV.)	18G10	7900	42.7	-118.63333	OR	HARNEY
FISH CREEK AM (DISC)	18G02A	7900	42.7	-118.48333	OR	HARNEY
STINKING WATER	18F04	4800	43.7	-118.53333	OR	HARNEY
IDLEWILD CAMP (DISC)	18F03	5200	43.76667	-118.96667	OR	HARNEY
SILVIES	18G01	6900	42.75	-118.68333	OR	JACKSON
ELDORADO PASS	18E20	4630	44.34313	-118.08485	OR	MALHEUR
SCHOOLMARM (DISC)	18D07	4780	45.16667	-118.5	OR	UMATILLA
LUCKY STRIKE	18D06	5050	45.28333	-118.85	OR	UMATILLA
BATTLE MOUNTAIN SUM (DISC)	18D12	4340	45.33333	-118.96667	OR	UMATILLA

MEACHAM	18D05	4320	45.45817	-118.39352	OR	UMATILLA
EMIGRANT SPRINGS (REV)	18D04	3930	45.55	-118.45	OR	UMATILLA
BLUE MOUNTAIN CAMP (DISC)	18D16	4300	45.75	-118.26667	OR	UMATILLA
TOLLGATE	18D03	5070	45.78658	-118.10815	OR	UMATILLA
BEAVER RESERVOIR (REV)	18D22	5150	45.13333	-118.21667	OR	UNION
COUNTY LINE (REV.)	18D23	4800	45.18333	-118.53333	OR	UNION
MOSS SPRINGS	17D06	5850	45.26667	-117.68333	OR	UNION
ANEROID LAKE #2	17D02	7300	45.21667	-117.2	OR	WALLOWA

Table M-8: Metadata of Utah NRCS Stations

Station Name	Station Number	Elevation (ft)	Latitude	Longitude	State	County Name
GEORGE CREEK	13H05	8994	41.91582	-113.412	UT	BOX ELDER
CLEAR CREEK MEADOWS	13H02	9050	41.91667	-113.4	UT	BOX ELDER
ONE MILE SUMMIT	13H01	7330	41.93333	-113.467	UT	BOX ELDER
VIPONT	13H03	7680	41.94102	-113.833	UT	BOX ELDER
LITTLE BEAR-UPPER	11H25	6550	41.4	-111.817	UT	CACHE
LITTLE BEAR	582	6544	41.4055	-111.826	UT	CACHE
LITTLE BEAR-LOWER	11H26	6000	41.42505	-111.837	UT	CACHE
TEMPLE FORK	1013	7406	41.793	-111.546	UT	CACHE
TONY GROVE RANGER STATION	11H03	6250	41.88467	-111.569	UT	CACHE
TONY GROVE LAKE	11H36	8400	41.9	-111.633	UT	CACHE
STEEP HOLLOW #1	11H27	8500	41.96667	-111.633	UT	CACHE
STEEP HOLLOW #2	11H28	7700	41.96667	-111.617	UT	CACHE
KLONDIKE NARROWS	11H01	7400	41.96833	-111.597	UT	CACHE
KILFOIL CREEK	11H31	7300	41.24735	-111.413	UT	RICH
MONTE CRISTO R.S.	11H12	8960	41.46667	-111.5	UT	RICH
BUG LAKE	11H37	7950	41.68333	-111.417	UT	RICH
GARDEN CITY SUMMIT	11H07	7600	41.922	-111.468	UT	RICH

Table M-9: Metadata of Utah NWS Stations

Station Name	Station Number	Elevation (ft)	Latitude	Longitude	State	County Name
TOOELE	428771	5074	40.52778	-112.298	UT	TOOELE
WOODRUFF	429595	6315	41.525	-111.149	UT	RICH

Table M-10: Metadata of Washington NRCS Stations

Station Name	Station Number	Elevation (ft)	Latitude	Longitude	State	County Name
MARTIN SPRINGS (DISC)	17C02	4400	46.25	-117.767	WA	COLUMBIA
HOMESTEAD (DISC)	17C01	4030	46.26667	-117.767	WA	COLUMBIA
SHERMAN CREEK PASS (DISC)	18A01	5350	48.61667	-118.483	WA	FERRY
SNOW CAPS TRAIL (DISC)	18A06	2720	48.8	-118.267	WA	FERRY
CABIN CREEK (DISC)	18A08	3170	48.81667	-118.283	WA	FERRY
SNOW CAPS CREEK (DISC)	18A05	2150	48.81667	-118.233	WA	FERRY
BOULDER ROAD (DISC)	18A02	1450	48.83333	-118.183	WA	FERRY
GOAT CREEK	18A04	3600	48.847	-118.331	WA	FERRY
BUTTE CK #2	18A16	4070	48.85	-118.367	WA	FERRY
SUMMIT G.S. #2	18A15	4600	48.86069	-118.395	WA	FERRY
SUMMIT G.S.	18A07	4600	48.9	-118.4	WA	FERRY
BOYER MOUNTAIN	17A02	5250	48.19273	-117.433	WA	PEND OREILLE
WINCHESTER CREEK (DISC)	17A03	2970	48.33333	-117.433	WA	PEND OREILLE
BUNCHGRASS MEADOW	17A01	5000	48.68333	-117.167	WA	PEND OREILLE
SPOKANE INTL AP	457938	2353	47.62167	-117.528	WA	SPOKANE
SPOKANE WFO	457941	2392	47.68111	-117.627	WA	SPOKANE
TOGO	18A10	3370	48.04376	-118.076	WA	STEVENS
STRANGER MOUNTAIN	17A05	4230	48.16385	-117.971	WA	STEVENS
CARLSON (DISC)	18A09	2885	48.23333	-118.017	WA	STEVENS
CHEWELAH	17A04	4925	48.28333	-117.583	WA	STEVENS
CHEWELAH 2	17A08	4925	48.29644	-117.594	WA	STEVENS
BAIRD #2	17A07	3159	48.6067	-117.553	WA	STEVENS
BAIRD	17A06	3215	48.61667	-117.567	WA	STEVENS

Table M-11: Metadata of Washington NWS Stations

Station Name	Station Number	Elevation (ft)	Latitude	Longitude	State	County Name
PULLMAN 2 NW	456789	2515	46.76028	-117.186	WA	WHITMAN
ASOTIN 14 SW	450294	3403	46.20389	-117.247	WA	ASOTIN
LACROSSE	454338	1476	46.81667	-117.883	WA	WHITMAN
ROSALIA	457180	2405	47.2325	-117.363	WA	WHITMAN
NORTHPORT	455946	1477	48.87417	-117.867	WA	STEVENS
BOUNDARY DAM	450844	1837	48.99472	-117.354	WA	STEVENS

Table M-12: Metadata of Wyoming NRCS Stations

Station Name	Station Number	Elevation (ft)	Latitude	Longitude	State	County Name
HAMS FORK	509	7840	42.146	-110.678	WY	LINCOLN
KELLEY R.S.	10G12	8180	42.25	-110.8	WY	LINCOLN
INDIAN CREEK	10G22	9425	42.3	-110.683	WY	LINCOLN
SOUTH THOMAS FORK	10G19	7840	42.3	-110.967	WY	LINCOLN
BIG PARK	10G11	8620	42.35	-110.767	WY	LINCOLN
COTTONWOOD LAKE AM	10G05	7670	42.51667	-110.817	WY	LINCOLN
SALT RIVER SUMMIT	10G08	7600	42.51667	-110.917	WY	LINCOLN
CCC CAMP	10G07	7500	42.524	-110.883	WY	LINCOLN
COTTONWOOD CREEK	419	7670	42.6459	-110.815	WY	LINCOLN
AFTON R.S.	10G04	6240	42.73333	-110.933	WY	LINCOLN
GROVER PARK DIVIDE	10G03	7000	42.8	-110.9	WY	LINCOLN
WILLOW CREEK	868	8380	42.81513	-110.835	WY	LINCOLN
YOUNGS RANCH	10G01	6650	42.91667	-110.717	WY	LINCOLN
GREYS BOUNDARY	10F18	5720	43.15	-111	WY	LINCOLN
BRYAN FLAT	10F14	6420	43.26667	-110.633	WY	TETON
GRANITE CREEK	497	6770	43.34298	-110.435	WY	TETON
GROS VENTRE SUMMIT	10F19	8750	43.38333	-110.133	WY	TETON
SNOW KING MOUNTAIN	10F20	7660	43.46667	-110.767	WY	TETON
TETON PASS W.S.	10F24	7740	43.5	-110.983	WY	TETON
PHILLIPS BENCH	10F23	8200	43.51667	-110.917	WY	TETON
ELBO RANCH	10F28	7100	43.66667	-110.6	WY	TETON
TOGWOTEE PASS	10F09	9580	43.75	-110.05	WY	TETON
BLACKROCK	10F07	8900	43.78333	-110.133	WY	TETON
FREDS MOUNTAIN	10F22	8000	43.78333	-110.967	WY	TETON
DARBY CANYON	10F21	8250	43.8	-111	WY	TETON
FOUR MILE MEADOW	10F06	7860	43.81667	-110.267	WY	TETON
TURPIN MEADOWS	10F05	6900	43.85	-110.283	WY	TETON
MORAN	10F04	6750	43.86667	-110.567	WY	TETON
MORAN BAY	10F03	6810	43.86667	-110.733	WY	TETON
INDIAN MEADOWS	10F25	8240	43.9	-110.883	WY	TETON
BASE CAMP	10F02	7030	43.93333	-110.433	WY	TETON
JACKPINE CREEK	10F26	7350	43.95	-111	WY	TETON
ARIZONA	10F01	6820	43.98333	-110.65	WY	TETON
GLADE CREEK	10E13	7040	44	-110.733	WY	TETON
HUCKLEBERRY DIVIDE	10E15	7300	44.05	-110.683	WY	TETON
GRASSY LAKE	11E15	7265	44.13333	-110.833	WY	TETON
SNAKE RIVER STATION	10E12	6920	44.13333	-110.667	WY	TETON
TWO OCEAN PLATEAU	10E17	9240	44.15	-110.217	WY	TETON

COULTER CREEK	10E10	7020	44.16667	-110.567	WY	TETON
LEWIS LAKE DIVIDE	10E09	7850	44.2	-110.667	WY	TETON
ASTER CREEK	10E08	7750	44.28333	-110.633	WY	TETON
THUMB DIVIDE	10E07	7980	44.36667	-110.567	WY	TETON
OLD FAITHFUL	10E18	7400	44.45	-110.817	WY	TETON
LAKE CAMP	10E04	7780	44.55	-110.4	WY	TETON

APPENDIX N: Ground Snow Load for Idaho Cities and Towns

Table N-13: Ground Snow Loads for Idaho Cities & Towns

County	City	Elevation (ft)	NGSL (psf/ft)	GSL (psf)	Mapping Exceptions (psf)	Note
ADA						
	Boise	2740	0.004838	13		
	Eagle	2555	0.006984	18		
	Gardencity	2660	0.005338	14		
	Kuna	2960	0.005299	16		
	Meridian	2605	0.006186	16		

ADAMS						
	Council	2913	0.01886	55		
	New Meadows	3868	0.022986	89		

BANNOCK						
	Arimo	4736	0.016417	78		
	Chubbuck	4470	0.010133	31*		
	Downey	4855	0.01629	79		
	Inkom	4525	0.024447	111		
	Lava Hot Spring	5000	0.020157	101		
	Mccammon	4750	0.020299	96		
	Pocatello	4460	0.010133	31*		

* Mapping Exceptions: values from NWS First-Order station at Pocatello Regional Airport

BEAR LAKE						
	Bloomington	5969	0.011268	67		
	Georgetown	6006	0.019295	116		
	Montpelier	5945	0.007489	45		
	Paris	5966	0.011268	67		
	St. Charles	5985	0.005907	35		1

BENEWAH						
	Chatcolet	2136	0.028099	60		
	Plummer	2557	0.023176	59		
	St. Maries	2216	0.026933	60		
	Tensed	2250	0.014192	32		

BINGHAM						
	Aberdeen	4404	0.004884	22		
	Basalt	4585	0.010161	47		
	Blackfoot	4504	0.006333	29		
	Firth	4555	0.010161	46		
	Shelley	4625	0.007688	36		

BLAINE						
	Bellevue	5190	0.015397	80		
	Hailey	5330	0.015461	82		
	Ketchum	5890	0.014165	83		
	Sun Valley	5920	0.014165	84		

BOISE						
	Crouch	3021	0.014938	45		
	Horseshoe Bend	2604	0.010536	27		2
	Idaho City	3906	0.025427	99		
	Placerville	4320	0.02376	103		

BONNER						
	Clark Fork	2085	0.034517	72		
	Hope	2063	0.03193	66		3
	Kootenai	2120	0.026976	57		4
	Old Town	2160	0.035707	77		
	Ponderay	2120	0.026569	56		5
	Priest River	2080	0.034058	71		
	Sandpoint	2085	0.028898	60		6

BONNEVILLE						
	Ammon	4714	0.004639	22		7
	Idaho Falls	4710	0.00763	36		
	Iona	4875	0.004656	23		8
	Irwin	5326	0.014408	77		
	Swan Valley	5277	0.012613	67		
	Ucon	4808	0.004979	24		9

BOUNDARY						
	Bonnors Ferry	1787	0.035927	64		
	Moyie Springs	2204	0.032667	72		

BUTTE						
	Arco	5328	0.013355	71		

CAMAS						
	Fairfield	5056	0.014031	71		

CANYON						
	Caldwell	2365	0.007691	18		10
	Melba	2659	0.005166	14		
	Middleton	2400	0.007327	18		11
	Nampa	2480	0.005796	14		
	Notus	2315	0.007483	17		12
	Parma	2225	0.01054	23		13
	Wilder	2424	0.00805	20		14

CARIBOU						
	Bancroft	5423	0.018407	100		
	Grace	5533	0.011176	62		
	Soda Springs	5773	0.012126	70		

CASSIA						
	Albion	4750	0.030904	147		15
	Burley	4165	0.004556	19		
	Declo	4201	0.00523	22		
	Malta	4540	0.003269	15		16
	Oakley	4585	0.003511	16		

CLARK						
	Dubois	5150	0.008664	45		
	Spencer	5883	0.015229	90		

CLEARWATER						
	Elk River	2918	0.04902	143		
	Orofino	1027	0.016617	17		
	Pierce	3087	0.036573	113		
	Weipe	3029	0.029563	90		

CUSTER						
	Clayton	5471	0.020403	112		
	Challis	5283	0.002473	13		17
	Lost River	6167	0.016426	101		
	Mackay	5900	0.015136	89		
	Stanley	6260	0.020382	128		

ELMORE						
	Mountain Home	3140	0.004586	14		18
	Glenns Ferry	2555	0.006866	18		

FRANKLIN						
	Clifton	4849	0.015647	76		19
	Dayton	4818	0.01663	80		20
	Franklin	4504	0.011357	51		
	Oxford	4798	0.015378	74		
	Preston	4720	0.018509	87		21
	Weston	4605	0.015253	70		

FREMONT						
	Ashton	5260	0.019841	104		
	Drummond	5607	0.020262	114		
	Island Park	6280	0.027862	175		
	Newdale	5069	0.007818	40		
	Parker	4924	0.01007	50		
	St. Anthony	4970	0.007519	37		
	Teton	4949	0.00859	43		
	Warm River	5302	0.020267	107		

GEM						
	Emmett	2397	0.006265	15		

GOODING						
	Bliss	3262	0.008738	29		
	Gooding	3570	0.007396	26		
	Hagerman	2959	0.008005	24		
	Wendell	3467	0.006253	22		

IDAHO						
	Cottonwood	3410	0.016493	56		
	Ferdinand	3728	0.015846	59		
	Grangeville	3390	0.005638	19		22
	Kooskia	1260	0.019022	24		
	Riggins	1800	0.009973	18		23
	Stites	1245	0.018375	23		
	Whitebird	1560	0.013868	22		

JEFFERSON						
	Hamer	4814	0.006806	33		
	Lewisville	4795	0.006286	30		
	Menan	4795	0.006722	32		
	Mud Lake	4785	0.006854	33		
	Rigby	4855	0.007209	35		
	Ririe	4960	0.010723	53		
	Roberts	4755	0.006878	33		

JEROME						
	Eden	3950	0.004296	17		
	Hazelton	4063	0.004292	17		
	Jerome	3781	0.003093	12		

KOOTENAI						
	Athol	2391	0.029891	71**	69***	
	Coeur D'Alene	2187	0.019791	43**	43***	
	Dalton Gardens	2440	0.021394	52**	51***	
	Harrison	2125	0.027225	58**	55***	
	Hauser	2130	0.043348	92**	70***	
	Hayden	2283	0.027157	62**	58***	
	Post Falls	2172	0.033196	72**	59***	
	Rathdrum	2196	0.039079	86**	72***	
	Spirit Lake	2567	0.03757	96**	87***	
	State Line	2120	0.037824	80**	62***	
	Worley	2654	0.024196	64**	59***	
** Mapping Exception: values from Map including NRCS East Ragged Saddle Station.						
*** Mapping Exception: values obtained using the 50-yr MRI specific gravity for Spokane First Order Station and ignoring East Ragged Saddle NRCS station.						

LATAH						
	Boville	2874	0.038131	110		
	Deary	2960	0.030424	90		
	Genesee	2675	0.01453	39		
	Julietta	1085	0.020766	23		
	Kendrick	1220	0.023749	29		
	Moscow	2575	0.015103	39		
	Potlatch	2519	0.014746	37		
	Troy	2460	0.019213	47		

LEMHI						
	Leadore	5989	0.010865	65		
	Patterson	6000	0.008364	50		
	Salmon	4004	0.003874	16		24

LEWIS						
	Craigmont	3727	0.017466	65		
	Kamiah	1195	0.01869	22		
	Nezperce	3150	0.006126	19		25
	Reubens	3498	0.017477	61		
	Winchester	4000	0.017834	71		

LINCOLN						
	Dietrich	4065	0.013966	57		26
	Richfield	4306	0.01421	61		27
	Shoshone	3970	0.012299	49		28

MADISON						
	Rexburg	4856	0.01021	50		
	Sugar	4894	0.010236	50		

MINIDOKA						
	Acequia	4165	0.004436	18		
	Heyburn	4150	0.00441	18		
	Minidoka	4280	0.004507	19		
	Paul	4145	0.00441	18		
	Rupert	4158	0.004278	18		

NEZ PERCE						
	Culdesac	1689	0.017612	30		
	Lapwai	964	0.01582	15		
	Lewiston	739	0.009877	7		
	Peck	1080	0.036921	40		29

ONEIDA						
	Malad City	4700	0.022924	108		30

OWYHEE						
	Homedale	2237	0.006871	15		
	Marsing	2249	0.005011	11		
	Grand View	2365	0.004507	11		31

PAYETTE						
	Fruitland	2226	0.00819	18		
	New Plymouth	2255	0.008656	20		
	Payette	2150	0.007791	17		

POWER						
	American Falls	4404	0.005442	24		
	Rockland	4660	0.015258	71		32

SHOSHONE						
	Kellogg	2308	0.015759	36		33
	Mullan	3277	0.036912	121		
	Osburn	2530	0.032485	82		
	Pinehurst	2240	0.025651	57		
	Smelterville	2219	0.018763	42		34
	Wallace	2744	0.043116	118		
	Wardner	2637	0.016087	42		35

TETON						
	Driggs	6116	0.008199	50		36
	Tetonia	6050	0.008616	52		37
	Victor	6207	0.017717	110		

TWIN FALLS						
	Buhl	3793	0.00741	28		38
	Castleford	3866	0.009066	35		39
	Filer	3965	0.004729	19		
	Hansen	4012	0.003602	14		
	Hollister	4515	0.002645	12		40
	Kimberly	3930	0.003566	14		
	Murtaugh	4082	0.004513	18		
	Twin Falls	3745	0.004287	16		

VALLEY						
	Cascade	4790	0.016104	77		
	Donnelly	4875	0.015879	77		41
	Mccall	5030	0.030322	153		

WASHINGTON						
	Cambridge	2651	0.0277	73		
	Midvale	2552	0.022477	57		
	Weiser	2115	0.008078	17		42

SKI AREAS						
	Bogus Basin Lodge	6200	0.024464	152		43
	Brundage Mt. Lodge	6040	0.03424	207		
	Schweitzer Basin Lodge	4700	0.058098	273		
	Silverhorn Lodge	5040	0.034353	173		
	Sun Valley Mt. Baldy	9000	0.02185	197		

Notes on Table N-1

1- Lifton Pumping station (NWS) is located 3 miles to the east has a 50 years ground snow load of 35 psf.

2- Emmett 2E station (NWS) is located 13 miles to the southwest of Horseshoe Bend and it has a ground snow load of 15 psf and elevation of 2390 ft.

3- Sandpoint exp station (NRCS) is located 12 miles to the west of Hope and it has a ground snow load of 61 psf and elevation of 2126 ft.

4- Sandpoint exp station (NRCS) is located 3 miles from Kootenai and it has a ground snow load of 61 psf.

5- Sandpoint exp station (NRCS) is located 2 miles from Kootenai and it has ground snow load of 61 psf.

6- Sandpoint exp station (NRCS) has a ground snow load of 61 psf.

7- Idaho Falls Fanning FLD station (NWS) is located 4 miles to the northeast of Ammon and has a ground snow load of 22 psf.

8- Idaho Falls Fanning FLD station (NWS) is located 4 miles to the southwest of Ammon and has a ground snow load of 22 psf.

9- Idaho Falls Fanning FLD station (NWS) is located 6 miles to the southwest of Ammon and has a ground snow load of 22 psf.

10- Caldwell has a station (NWS) with a ground snow load of 18.6 psf.

- 11- Caldwell station (NWS) is located 4 miles to the southwest of Middleton and has a ground snow load of 18.6 psf.
- 12- Notus is located between two stations, Parma exp station (NWS) and Caldwell station (NWS). They have ground snow loads of 18 and 25 psf, respectively
- 13- Parma has a station (NWS) with ground snow load of 25 psf and elevation 2290 ft.
- 14- Parma exp station (NWS) is located 8 miles north of Wilder and has a ground snow load of 25 psf.
- 15- Howell Canyon station (NRCS) is located 11 miles south of Albion. The station has an elevation of 7980 ft and ground snow load of 249 psf.
- 16- Malta 4ESE station (NWS) is located 3 miles to the southeast of Malta and has a ground snow load of 15 psf.
- 17- Challis has a station (NWS) in the town that has a ground snow load of 13 psf.
- 18- Mountain Home has a station (NWS) with a ground snow load of 13 psf.
- 19- Oxford Springs station (NRCS) is located 8 miles to the northwest of Clifton and Preston station (NWS) is located 9 miles to the southeast of Clifton the stations have ground snow loads and elevations of 103 and 89 psf and 6740 and 4800 ft respectively.
- 20- Preston station (NWS) is located 6 miles to the east of Dayton and has ground snow load of 89 psf.
- 21- Preston station (NWS) has a ground snow load of 89 psf.
- 22- Grangeville has a station (NWS) with ground snow load of 16 psf.
- 23- Riggins has a station (NWS) with ground snow load of 18 psf.
- 24- Salmon Lemhi Co Ap station (NWS) has a snow load of 15 psf at an elevation of 4044 ft.
- 25- Nez Perce has a station (NWS) with a snow load of 18 psf.
- 26- Richfield station (NWS) is 11 miles to the north of Dietrich and has a snow load of 61 psf and an elevation of 4282 ft.
- 27- Richfield station (NWS) has a snow load of 61 psf.
- 28- Richfield station (NWS) is 14 miles to the northeast of Shoshone and has a snow load of 61 psf.
- 29- Dworshak fish hatchery station (NWS) is 6 mi. to the northeast of Peck and has a snow load of 51 psf.
- 30- Malad station (NWS) has a snow load of 111 psf at an elevation of 4581 ft and Malad City Airport station (NWS) has a snow load of 35 psf and elevation of 4482 ft.
- 31- Grandview 4 NW (NWS) has a snow load of 9 psf.
- 32- Arbon station (NWS) is located 15 miles to the southeast of Rockland and has a snow load of 81 psf and elevation of 5210 ft.

- 33- Kellogg has a station (NWS) with snow load of 36 psf.
- 34- Smeltonville is 2 miles to the west of Kellogg.
- 35- Wardner is 1 mile from Kellogg.
- 36- Driggs has a station (NWS) with a snow load of 50 psf.
- 37- Driggs station (NWS) is located 6 miles to the south of Teton and it has a snow load of 50 psf and elevation of 6120 ft.
- 38- Buhl is located in the center of 3 stations: Twin Falls (NWS), Jerome (NWS), and Castleford (NWS). The snow loads are 16, 10 and 35 psf, respectively.
- 39- Castleford has a station (NWS) with snow load of 35 psf.
- 40- Hollister has a station (NWS) with a snow load of 12 psf.
- 41- Long Valley Station (NRCS) is located 4 miles north of Donnelly and has a snow load of 77 psf and elevation of 4890 ft.
- 42- Weiser has a station (NWS) with a snow load of 17 psf.
- 43- Bogus Basin has 3 stations: Bogus Basin NRCS), Bogus Basin Road (NRCS), and Deer Point (NWS). They have snow loads of 213, 67 and 161 psf, respectively. The elevations are 6340, 5540 and 7044 ft, respectively.

APPENDIX O: Stations' Normalized Ground Snow Loads

Table O-14: Stations' Normalized Ground Snow Loads

Station Name	Station Number	State	50 Years Load (psf)	Years of Record	Normalized Ground Snow Load(lb/ft ² /ft of elevation)
Wilson Creek	15G02	ID	127	54	0.018
STREVELL	108786	ID	19	36	0.004
Franklin Basin (Disc)	11G08	ID	246	91	0.031
PRESTON SUGAR FACTOR	107353	ID	51	24	0.011
THREE CREEK	109119	ID	45	48	0.008
PRESTON	107346	ID	89	32	0.019
Badger Gulch	14G03	ID	121	68	0.018
Cedar Creek (Disc)	14G05	ID	96	38	0.014
Indian Grove (Disc)	13G04	ID	128	13	0.017
LIFTON PUMPING STN	105275	ID	35	75	0.006
Cub River R.S. (Disc)	11G12	ID	79	38	0.014
Langford Flat Creek	14G08	ID	77	56	0.013
Willow Flat	11G04	ID	126	60	0.021
Logger Springs	13G03	ID	158	54	0.019
Bostetter R.S. (Disc)	14G01	ID	174	79	0.023
MALAD CITY AP	105559	ID	35	59	0.008
Worm Creek	11G28	ID	159	54	0.024
Magic Mountain (Disc)	14G02	ID	170	72	0.025
Shoshone Basin (Disc)	14G06	ID	80	34	0.014
MALAD	105544	ID	111	32	0.024
Boy Scout Camp	13G02	ID	138	67	0.018
OAKLEY	106542	ID	16	77	0.004
Horseshoe Basin (Disc)	11G15	ID	226	27	0.028
Dry Basin	11G14	ID	253	54	0.032
Christensen Ranch (Disc)	11G11	ID	72	37	0.013
Oxford Spring (Disc)	12G18	ID	103	54	0.015
MALTA 4 ESE	105563	ID	15	38	0.003
Liberty Spring (Disc)	11G13	ID	365	32	0.042
Strawberry Mink Div. (Disc)	11G10	ID	175	37	0.026
Strawberry Creek	11G09	ID	87	60	0.015
Howell Canyon (Disc)	13G01	ID	249	66	0.031
MONTPELIER RS	106053	ID	45	61	0.007
Upper Elkhorn	12G10	ID	157	54	0.022
Bull Basin AM	16G10	ID	36	53	0.007
Lower Elkhorn (Disc)	12G11	ID	133	32	0.019

HOLLISTER	104295	ID	12	35	0.003
Emigration Canyon	11G07	ID	97	62	0.015
Emigrant Summit (Disc)	11G06	ID	219	79	0.030
Montpelier Creek (Disc)	11G18	ID	74	31	0.011
Cliff Canyon (Disc)	12G13	ID	111	32	0.015
Lower Home Canyon (Disc)	11G27	ID	124	31	0.016
Sublett	12G08	ID	100	79	0.017
Daniels Creek	12G12	ID	55	54	0.009
Giveout (Disc)	11G33	ID	101	54	0.015
Upper Home Canyon	11G26	ID	215	54	0.025
Red Canyon AM	16G11	ID	73	52	0.011
Little Beaver (Disc)	11G20	ID	139	31	0.020
Whiskey Flat (Disc)	11G21	ID	85	26	0.012
Battle Creek AM	16G09	ID	48	54	0.008
Vaught Ranch AM	16G12	ID	80	49	0.014
ARBON	100347	ID	81	30	0.016
Sedgwick Peak (Disc)	11G30	ID	172	35	0.022
TWIN FALLS 3 SE	109299	ID	10	30	0.003
BURLEY MUNI AP	101303	ID	19	53	0.005
TWIN FALLS	109303	ID	14	48	0.004
Beaverdam Creek (Disc)	12G21	ID	83	32	0.014
Dempsey Creek (Disc)	12G05	ID	100	34	0.016
CASTLEFORD 2 N	101551	ID	35	43	0.009
Slug Creek Divide (Disc)	11G05	ID	145	79	0.020
TWIN FALLS 2 NNE	109294	ID	16	68	0.004
GRACE	103732	ID	62	62	0.011
HAZELTON	104140	ID	17	61	0.004
Mud Flat (Disc)	16G07	ID	60	56	0.010
RUPERT 3 WSW	107968	ID	18	35	0.004
PAUL	106877	ID	17	58	0.004
Antelope Ridge (Disc)	16G06	ID	97	32	0.016
Sulphur Peak (Disc)	11G31	ID	129	12	0.018
Johnson Creek	11G36	ID	104	35	0.015
MINIDOKA DAM	105980	ID	19	56	0.005
Hyde Pasture Am (Disc)	16G05	ID	82	30	0.014
Wood Canyon Divide (Disc)	11G37	ID	170	12	0.023
CONDA	102071	ID	71	18	0.012
JEROME	104670	ID	11	31	0.003
Lower Pebble	12G06	ID	113	54	0.020
Wildhorse Divide (Disc)	12G17	ID	146	53	0.022
Allen Ranch	11G35	ID	76	54	0.012

Mink Creek (Disc)	12G01	ID	161	48	0.025
Pebble Creek	12G02	ID	129	70	0.020
South Mountain (Disc)	16G01	ID	124	75	0.019
Austin Bros. Ranch (Disc)	11G03	ID	72	59	0.011
MINIDOKA 10WNW	105972	ID	16	19	0.004
Cold Springs (Disc)	12G16	ID	186	13	0.027
AMERICAN FALLS 3 NW	100227	ID	24	60	0.005
Toponce (Disc)	12G15	ID	129	14	0.021
POCATELLO RGNL AP	107211	ID	31	73	0.007
Putnam (Disc)	12G14	ID	188	13	0.026
SHOSHONE 1 WNW	108380	ID	49	51	0.013
GLENN'S FERRY	103631	ID	17	39	0.007
Somsen Ranch (Disc)	11G01	ID	114	75	0.017
ABERDEEN EXP STN	100010	ID	22	63	0.005
BLISS	101002	ID	30	66	0.009
North Putnam (Disc)	12G20	ID	299	11	0.041
Twitchell Canyon (Disc)	12G19	ID	156	11	0.025
War Eagle (Disc)	16G13	ID	219	30	0.028
Silver City	16F03	ID	142	70	0.022
GRAND VIEW 4 NW	103760	ID	9	29	0.004
FT HALL 1 NNE	103297	ID	21	67	0.005
RICHFIELD	107673	ID	61	62	0.014
Reynolds West Fork #2	16F09	ID	228	45	0.034
Democrat Creek	16F13	ID	85	45	0.015
Dobson Creek	16F12	ID	238	45	0.034
Reynolds-Dobson Divide	16F11	ID	229	45	0.032
Succor Creek AM	16F06	ID	96	52	0.015
MTN HOME	106174	ID	13	41	0.004
BLACKFOOT	100915	ID	29	42	0.006
Blue Ridge	11F17	ID	154	54	0.023
Mud Spring	14F20	ID	50	11	0.009
Rattlesnake Spring	15F19	ID	26	6	0.007
REYNOLDS	107648	ID	9	34	0.002
Sheep Mountain (Disc)	11F11	ID	107	54	0.016
Brockman Station (Disc)	11F16	ID	86	31	0.013
Tollgate	15F20	ID	32	14	0.007
SWAN FALLS P H	108928	ID	9	37	0.004
Bennett Mountain (Disc)	15F07	ID	163	29	0.025
Camas Creek Divide	15F09	ID	102	55	0.018
Mud Creek	11F14	ID	163	41	0.023
Reynolds Creek	2029	ID	159	14	0.028

HILL CITY	104268	ID	103	76	0.020
Bone	11F08	ID	63	54	0.010
Lava Creek	11F15	ID	125	54	0.017
PICABO	107040	ID	49	56	0.010
Little Camas Flat	15F12	ID	70	52	0.014
FAIRFIELD RS	103108	ID	71	54	0.014
IDAHO FALLS 16 SE	104456	ID	55	60	0.009
PALISADES	106764	ID	57	46	0.011
ANDERSON DAM	100282	ID	81	58	0.021
Tex Creek (Disc)	11F05	ID	80	34	0.012
IRWIN 2 SE	104588	ID	77	13	0.015
Chimney Creek	15F15	ID	128	36	0.020
SWAN VALLEY	108937	ID	49	31	0.009
Birch Creek (Disc)	11F03	ID	120	34	0.018
CRATERS OF THE MOON	102260	ID	130	57	0.022
Fall Creek	11F19	ID	76	31	0.011
Soldier R.S. (Disc)	14F11	ID	103	76	0.018
KUNA	105038	ID	14	40	0.005
Prairie (Disc)	15F06	ID	65	63	0.014
IDAHO FALLS 2 ESE	104455	ID	22	48	0.005
IDAHO FALLS FANNING FLD	104457	ID	37	47	0.008
Couch Summit (Disc)	14F10	ID	155	68	0.023
IDAHO FALLS 46 W	104460	ID	21	61	0.004
Telfer Ranch	13F06	ID	70	62	0.012
Iron Mine Creek	13F10	ID	100	57	0.016
State Line	11F01	ID	130	79	0.020
Muldoon	13F05	ID	65	62	0.010
Pine Creek Pass (Disc)	11F02	ID	140	54	0.021
BOISE AIR TERMINAL	101022	ID	12	74	0.004
HAILEY 3 NNW	103942	ID	84	43	0.015
DEER FLAT DAM	102444	ID	11	34	0.004
Dry Fork	13F20	ID	144	54	0.020
ARROWROCK DAM	100448	ID	61	60	0.019
Dollarhide Summit (Disc)	14F08	ID	213	65	0.025
Garfield R.S. (Disc)	13F04	ID	84	62	0.013
Swede Peak (Disc)	13F09	ID	165	57	0.022
Leadbelt (Disc)	13F12	ID	97	34	0.014
Trinity Mountain (Disc)	15F05	ID	308	79	0.040
Fishpole Lake	13F08	ID	241	49	0.026
Reynolds Mountain	16F08	ID	208	45	0.031
Reynolds West Fork #1	16F10	ID	237	45	0.034

Iron Bog (Disc)	13F11	ID	135	32	0.018
Mount Baldy	14F09	ID	195	66	0.022
CALDWELL	101380	ID	19	80	0.008
Ketchum R S	14F21	ID	74	12	0.013
Hyndman (Disc)	14F16	ID	122	54	0.016
Mascot Mine (Disc)	14F07	ID	119	57	0.015
SUN VALLEY	108906	ID	140	25	0.024
Packsaddle Spring	11F18	ID	241	34	0.029
GROUSE	103882	ID	73	41	0.012
Smiley Mountain	926	ID	128	14	0.013
DRIGGS	102676	ID	50	63	0.008
Bogus Basin Road	16F04	ID	67	58	0.012
Atlanta Summit (Disc)	15F04	ID	278	81	0.037
Bear Canyon (Disc)	13F03	ID	177	63	0.022
DEER POINT	102451	ID	161	17	0.023
Bogus Basin	16F02	ID	213	73	0.034
Chocolate Gulch	895	ID	84	22	0.013
HOWE	104384	ID	21	47	0.004
Graham Ranch (Disc)	14F05	ID	114	65	0.018
Atlanta Townsite (Disc)	15F17	ID	95	12	0.018
Road Creek (Disc)	15F03	ID	107	50	0.020
Vienna Mine (Disc)	14F04	ID	326	63	0.036
ATLANTA	100491	ID	147	15	0.027
PARMA EXP STN	106844	ID	25	82	0.011
Copper Basin	13F02	ID	97	77	0.013
Idaho City Townsite (Disc)	15F16	ID	58	10	0.015
Lost-Wood Divide (Disc)	14F03	ID	218	66	0.028
IDAHO CITY	104442	ID	77	78	0.019
Galena Summit (Disc)	14F12	ID	204	66	0.023
EMMETT 2 E	102942	ID	15	46	0.006
Stickney Mill (Disc)	14F02	ID	86	77	0.012
GALENA	103417	ID	247	19	0.034
Galena New (Disc)	14F17	ID	188	77	0.025
SUGAR	108818	ID	50	31	0.010
Bad Bear	15F02	ID	127	54	0.026
Deadman Gulch	16F01	ID	146	66	0.026
Moore's Creek Summit	15F01	ID	279	82	0.046
MACKAY LOST RIVER RS	105462	ID	89	56	0.015
Mores Creek Summit	637	ID	264	34	0.043
Graham Guard Station (Disc)	15F14	ID	134	54	0.024

SAINT ANTHONY	108022	ID	37	53	0.008
CENTERVILLE ARBAUGH RC	101636	ID	101	65	0.023
HAMER 4 NW	103964	ID	33	67	0.007
Mc Renolds Reservoir	11F12	ID	156	54	0.023
CHILLY BARTON FLAT	101671	ID	15	56	0.002
Wet Creek Summit (Disc)	13E07	ID	118	40	0.015
OBSIDIAN 3 SSE	106553	ID	99	15	0.014
ASHTON	100470	ID	106	67	0.020
Jackson Peak (Disc)	15E09	ID	262	65	0.037
PAYETTE	106891	ID	17	52	0.008
Leatherman Pass (Disc)	13E24	ID	206	33	0.021
LOWMAN 3E #2	105426	ID	120	11	0.030
GARDEN VALLEY	103448	ID	46	65	0.015
OLA 4 S	106590	ID	19	28	0.006
Redfish Lake Flat (Disc)	14E07	ID	113	30	0.017
Borah (Disc)	13E08	ID	57	30	0.007
Double Springs Pass (Disc)	13E25	ID	73	24	0.009
STANLEY	108676	ID	128	46	0.020
DUBOIS EXP ST	102707	ID	47	84	0.009
WEISER	109638	ID	17	53	0.008
Cozy Cove (Disc)	15E08	ID	134	66	0.025
Tripod Summit	16E03	ID	154	54	0.029
Banner Summit (Disc)	15E11	ID	223	36	0.032
Deadwood Airstrip (Disc)	15E10	ID	123	34	0.023
Lost Garfield (Disc)	13E03	ID	32	30	0.005
North Crane Creek	16E17	ID	33	15	0.007
DEADWOOD DAM	102385	ID	140	46	0.026
Dodson Pass	16E15	ID	45	19	0.011
Fairview G.S. (Disc)	13E05	ID	38	30	0.006
Bruno Creek	14E08	ID	163	54	0.021
Hahn Homestead	13E29	ID	56	11	0.007
Spring Mountain Canyon	13E30	ID	112	11	0.013
Webber Creek	12E05	ID	49	55	0.007
SPENCER	108604	ID	90	20	0.015
Sawmill Canyon (Disc)	13E04	ID	64	40	0.009
Van Wyck	16E14	ID	108	19	0.022
Kilgore	11E12	ID	93	78	0.015
KILGORE	104908	ID	111	18	0.018
Island Park (Disc)	11E10	ID	138	77	0.022
Moonshine (Disc)	13E06	ID	86	58	0.012
Shirts Creek	16E16	ID	34	17	0.008

ISLAND PARK	104598	ID	175	78	0.028
Blue Ledge Mine (Disc)	11E11	ID	162	55	0.023
Irving Creek	12E04	ID	49	55	0.007
Meadow Lake (Disc)	13E18	ID	158	54	0.017
Above Gilmore	13E19	ID	88	54	0.011
Camp Creek	12E03	ID	100	79	0.015
Black Canyon (Disc)	11E18	ID	265	31	0.033
Latham Springs	11E16	ID	265	54	0.035
Mill Creek Summit (Disc)	14E01	ID	198	78	0.023
Big Springs	11E09	ID	166	79	0.026
Lucky Dog	11E14	ID	191	54	0.028
Black Moose (Disc)	11E19	ID	309	32	0.038
CHALLIS	101663	ID	13	46	0.002
CASCADE 1 NW	101514	ID	79	67	0.016
Crawford R.S. (Disc)	15E03	ID	72	54	0.015
White Elephant (Disc)	11E36	ID	241	54	0.031
Deadwood Summit (Disc)	15E04	ID	366	79	0.053
Sawtell Mountain (Disc)	11E32	ID	290	32	0.033
Thorson Cabin #2	17E06	ID	127	7	0.025
MAY 2SSE	105685	ID	17	56	0.003
Thorson Cabin	17E02	ID	135	50	0.025
CAMBRIDGE	101408	ID	74	61	0.028
Robinson Cr. Ridge (Disc)	17E01	ID	179	30	0.029
Bear Saddle (Disc)	16E10	ID	227	34	0.037
Sturgill Ridge (Disc)	16E08	ID	273	24	0.041
Twin Peaks (Disc)	14E03	ID	231	31	0.025
Mann Creek (Disc)	16E09	ID	217	30	0.036
Big Creek Summit (Disc)	1500	ID	280	79	0.043
Mesa Ditch	16E19	ID	77	10	0.022
Valley View	11E08	ID	146	79	0.022
Morse Creek Sawmill	13E26	ID	67	44	0.009
Targhee Pass (Disc)	11E34	ID	142	29	0.020
MIDDLE FORK LODGE	105897	ID	32	42	0.007
COUNCIL	102187	ID	55	51	0.019
Aspen Hall Pass Am (Disc)	13E21	ID	85	39	0.010
Hall Creek (Disc)	13E20	ID	58	25	0.008
Squaw Flat (Disc)	16E05	ID	208	54	0.033
Jakes Canyon	13E28	ID	99	29	0.011
Long Valley	1016	ID	77	14	0.016
Placer Creek	16E02	ID	148	77	0.025
BROWNLEE DAM	101180	ID	24	31	0.013

Copes Camp	13E17	ID	65	54	0.009
Morgan Creek (Disc)	14E04	ID	130	54	0.017
Schwartz Lake	13E16	ID	109	54	0.013
YELLOW PINE 7 S	109951	ID	93	37	0.018
MCCALL	105708	ID	80	85	0.016
Lake Fork	15E01	ID	135	79	0.026
Mccall U Of I Campus	16E20	ID	167	7	0.033
Rock Flat Summit (Disc)	16E01	ID	150	46	0.028
Bear Basin (Disc)	16E11	ID	155	54	0.029
NEW MEADOWS RANGER S	106388	ID	89	67	0.023
Brundage Mountain (Disc)	16D06	ID	367	31	0.049
Brundage Reservoir	370	ID	214	29	0.034
Boulder Creek (Disc)	16D01	ID	200	55	0.037
West Branch (Disc)	16D08	ID	207	54	0.037
Cougar Point	14D06	ID	37	28	0.005
COBALT	101932	ID	36	23	0.007
Williams Creek Smt. (Disc)	14D04	ID	148	30	0.019
SALMON LEMHI CO AP	108076	ID	15	38	0.004
Perreau Meadows	14D05	ID	142	54	0.017
BIG CREEK	100835	ID	93	22	0.016
Squaw Meadow	15D02	ID	281	77	0.048
Secesh Summit (Disc)	15D01	ID	289	63	0.044
SALMON KSRA	108080	ID	15	46	0.004
WARREN	109560	ID	140	53	0.024
SHOUP	108395	ID	30	38	0.009
RIGGINS	107706	ID	18	50	0.010
GIBBONSVILLE	103554	ID	98	43	0.022
DIXIE	102575	ID	152	58	0.027
Moose Creek (Disc)	13D16	ID	142	78	0.023
Kit Carson Pasture	14D03	ID	74	76	0.015
Mountain Meadows (Disc)	15D06	ID	222	54	0.035
GRANGEVILLE 11 SE	103780	ID	27	25	0.012
ELK CITY 1NE	102875	ID	68	63	0.017
Elk Butte New (Disc)	16C20	ID	373	51	0.066
North Star Ranch	106493	ID	48	23	0.017
GRANGEVILLE	103771	ID	16	67	0.005
Buck Meadows (Disc)	15D05	ID	277	37	0.049
COTTONWOOD	102154	ID	57	21	0.017
FENN RS	103143	ID	52	67	0.034
Webb Creek #2	16C21	ID	84	34	0.018
KOOSKIA	105011	ID	24	71	0.019

Coolwater Mountain (Disc)	15C07	ID	318	30	0.053
NEZPERCE	106424	ID	18	61	0.006
WINCHESTER	109846	ID	58	50	0.015
Fish Lake Airstrip	15C02	ID	316	63	0.056
LEWISTON WSO AP	105241	ID	14	54	0.010
Savage Pass (Disc)	14C04	ID	220	78	0.036
Hemlock Butte (Disc)	15C06	ID	412	55	0.071
OROFINO	106681	ID	19	29	0.014
PIERCE	107046	ID	142	52	0.046
Pierce Ranger Station	15C05	ID	88	64	0.029
DWORSHAK FISH HATCHERY	102845	ID	51	36	0.052
POWELL	107320	ID	137	47	0.039
Crooked Fork	14C11	ID	117	53	0.032
Crater Meadows (Disc)	15C09	ID	383	54	0.064
Shanghi Summit (Disc)	15C04	ID	229	77	0.050
HEADQUARTERS	104150	ID	110	51	0.034
Lolo Pass (Disc)	14C05	ID	295	79	0.056
Cayuse Airstrip (Disc)	15C03	ID	105	47	0.030
Goat Lake (Disc)	14C09	ID	367	30	0.056
MOSCOW U OF I	106152	ID	42	88	0.016
Cool Creek (Disc)	15C16	ID	449	30	0.071
ELK RIVER 1 S	102892	ID	143	63	0.049
East Twin (Disc)	16C03	ID	138	34	0.033
Moscow Mountain	16C02	ID	138	57	0.031
West Twin (Disc)	16C04	ID	120	33	0.028
Elk Butte Old (Disc)	16C15	ID	354	37	0.066
Sherwin (Disc)	16C01	ID	125	60	0.039
POTLATCH 3 NNE	107301	ID	39	87	0.014
CLARKIA	101831	ID	121	15	0.043
Granite Peak (Disc)	15B13	ID	386	38	0.064
Lost Lake (Disc)	15B14	ID	487	53	0.080
Breezy Saddle (Disc)	15B20	ID	289	30	0.058
Forty-Nine Meadows (Disc)	15B03	ID	293	57	0.061
Mica Creek	623	ID	195	25	0.043
Tensed (BENEWAH)	109029	ID	35	14	0.014
AVERY RS	100525	ID	13	52	0.005
SAINT MARIES	108062	ID	58	65	0.027
Above Ronald	15B07	ID	294	54	0.068
Roland Summit	15B05	ID	323	56	0.063
Lookout (Disc)	15B02	ID	289	73	0.056
MULLAN PASS	106235	ID	140	14	0.039

WALLACE	109493	ID	129	49	0.047
WALLACE WOODLAND PARK	109498	ID	70	56	0.026
Kellogg Peak	16B05	ID	191	76	0.034
Humboldt Gulch (Disc)	15B21	ID	136	49	0.032
KELLOGG	104831	ID	36	100	0.015
Sunset (Disc)	15B09	ID	249	86	0.045
Fourth Of July Summit	16B03	ID	93	71	0.029
COEUR D'ALENE	101956	ID	40	88	0.018
Copper Ridge (Disc)	16B02	ID	251	56	0.052
Lower Sands Creek (Disc)	16B01	ID	180	77	0.058
Corner Creek	16B09	ID	84	45	0.027
Chilco Ridge (Disc)	16B08	ID	98	27	0.027
East Ragged Saddle	17B03	ID	195	23	0.052
Ragged Mountain	17B06	ID	210	29	0.050
Sage Creek Saddle	16B06	ID	147	50	0.036
Twin Spirit Divide	16B12	ID	150	30	0.043
BAYVIEW MODEL BASIN	100667	ID	52	64	0.025
Mosquito Ridge (Disc)	16A04	ID	301	78	0.058
CABINET GORGE	101363	ID	77	48	0.035
Sandpoint Exp Stn	16A11	ID	49	13	0.023
SANDPOINT EXP STN	108137	ID	61	104	0.029
Bear Mountain (Disc)	16A08	ID	546	54	0.101
Benton Meadow	16A02	ID	65	78	0.027
Benton Spring	16A03	ID	179	79	0.036
PRIEST RIVER EXP STN	107386	ID	95	104	0.040
Schweitzer Ridge (Disc)	16A05	ID	364	31	0.059
Schweitzer Saddle	1038	ID	328	7	0.054
BONNERS FERRY	101079	ID	75	91	0.036
Myrtle Creek	1053	ID	47	12	0.013
Smith Creek	16A01	ID	374	74	0.078
Hidden Lake	988	ID	248	15	0.049
PORTHILL	107264	ID	75	67	0.042
Madison Plateau	11E31	MT	192	54	0.025
Lakeview Ridge	11E03	MT	103	67	0.014
Lakeview Canyon	11E04	MT	112	67	0.016
Whiskey Creek	11E30	MT	175	54	0.026
White Pine Ridge	12E01	MT	68	65	0.008
West Yellowstone	11E07	MT	105	81	0.016
Dad Creek Lake	13E22	MT	137	52	0.016
Tepee Creek	11E24	MT	141	54	0.018

Divide	12E07	MT	95	54	0.012
Lake Creek	11E22	MT	72	51	0.012
Hebgen Dam	11E05	MT	102	78	0.016
Notch	12E06	MT	173	52	0.020
Twenty-One Mile	11E06	MT	157	78	0.022
Potomageton Park	11E21	MT	122	54	0.017
Carrot Basin	11E29	MT	321	54	0.036
Sentinel Creek	11E20	MT	204	32	0.025
Trail Creek	13E02	MT	79	64	0.011
Lemhi Pass	13E01	MT	83	44	0.011
Lemhi Ridge	13E23	MT	100	54	0.012
Clover Meadow	11D08	MT	154	54	0.018
Call Road	11D07	MT	110	51	0.014
Carter Creek	12D04	MT	62	49	0.008
Gold Stone	13D09	MT	151	64	0.019
Bloody Dick	13D10	MT	118	67	0.016
Darkhorse Lake	13D19	MT	254	54	0.030
DILLON WMCE	242409	MT	14	68	0.003
Jahnke Lake Trail	13D27	MT	98	64	0.014
Little Park	11D10	MT	146	54	0.020
Bear Basin	11D09	MT	185	54	0.023
Jack Creek	11D05	MT	51	23	0.008
Slag-A-Melt Lake	13D24	MT	241	53	0.028
Devils Slide	10D04	MT	206	62	0.025
Shower Falls	10D16	MT	232	54	0.029
Arch Falls	10D14	MT	123	54	0.017
Elk Horn Springs	13D15	MT	83	80	0.011
Smuggler Mine	12D05	MT	87	52	0.013
Hood Meadow	10D03	MT	103	58	0.016
Middle Mill Creek	11D15	MT	144	52	0.018
Lick Creek	10D13	MT	124	51	0.018
Lower Twin	11D11	MT	187	54	0.024
Branham Lakes	11D14	MT	263	52	0.030
Four Mile	11D12	MT	77	54	0.011
North Meadow	11D03	MT	94	31	0.013
New World	10D01	MT	122	76	0.018
Abundance Lake	13D20	MT	210	52	0.024
Saddle Mountain	13D22	MT	228	54	0.029
Foolhen	13D21	MT	161	52	0.019
Pipestone Pass	12D01	MT	65	77	0.009
Mudd Lake	13D25	MT	169	51	0.022

East Fork R.S.	13D01	MT	59	73	0.011
Palisade Creek	13D23	MT	251	47	0.030
Copper Mountain	12C09	MT	103	54	0.013
Storm Lake	13C07	MT	124	76	0.016
Nez Perce Creek	12C10	MT	64	51	0.010
Stuart Mill	13C06	MT	58	56	0.009
Berry Meadow	12C07	MT	74	52	0.011
Intergaard	13C04	MT	72	77	0.011
Skalkaho Summit	13C03	MT	209	78	0.029
Fred Burr Pass	13C11	MT	219	52	0.027
Rocker Peak	12C11	MT	139	54	0.017
Black Pine	13C13	MT	127	56	0.018
Ten Mile Upper	12C04	MT	127	58	0.016
El Dorado Mine	13C09	MT	173	63	0.022
Ten Mile Middle	12C03	MT	102	81	0.015
Gold Creek Lake	13C10	MT	139	61	0.019
Ten Mile Lower	12C02	MT	67	80	0.010
Chessman Reservoir	12C05	MT	50	79	0.008
Ambrose	13C16	MT	122	55	0.019
Slide Rock Mountain	13C02	MT	148	78	0.021
Lubrecht Forest No 3	13C21	MT	67	63	0.012
Lubrecht Forest No 4	13C22	MT	39	62	0.008
Stemple Pass	12C01	MT	94	81	0.014
Lubrecht Forest No 6	13C08	MT	43	64	0.011
Hoodoo Basin	15C10	MT	413	54	0.068
Hoodoo Creek	15C01	MT	407	61	0.069
Stuart Mountain	13C01	MT	283	79	0.038
Tv Mountain	14B01	MT	164	57	0.024
Bassoo Peak	14B03	MT	106	54	0.021
Baree Trail	15B15	MT	105	48	0.028
Baree Midway	15B16	MT	296	49	0.064
Baree Creek	15B11	MT	370	78	0.067
Griffin Creek Divide	14A09	MT	97	55	0.019
KALISPELL GLACIER AP	244558	MT	64	112	0.022
Logan Creek	14A05	MT	73	78	0.017
Keeler Creek	16A09	MT	142	38	0.043
Brush Creek Timber	14A13	MT	98	66	0.020
LIBBY 1 NE RS	245015	MT	60	101	0.029
Hell Roaring Divide	14A03	MT	246	73	0.043
Red Mountain	15A01	MT	162	78	0.027
Grave Creek	14A11	MT	148	54	0.034

Davis Creek	15A04	MT	221	44	0.041
Weasel Divide	14A07	MT	267	78	0.049
Kishenehn	14A06	MT	79	69	0.020
Hawkins Lake	15A03	MT	259	54	0.040
Garver Creek	15A05	MT	86	47	0.020
Corral Canyon	417	NV	157	36	0.018
Harrison Pass #1	15J10	NV	59	83	0.009
Green Mountain	503	NV	172	35	0.022
Smith Creek	15J19	NV	111	38	0.015
American Beauty - Aerial Marker	15J17	NV	96	51	0.012
BEOVAWE	260795	NV	12	52	0.003
Lamoille #5	15J08	NV	255	79	0.029
Lamoille #3	570	NV	134	34	0.017
Lamoille #1	15J04	NV	91	93	0.012
Robinson Lake - Aerial Marker	15J16	NV	280	48	0.030
Dry Creek	15J03	NV	75	74	0.012
Pole Canyon #2	15J20	NV	165	38	0.021
Dorsey Basin	453	NV	169	36	0.021
Hole-in-Mountain	527	NV	285	33	0.036
Tent Mtn., Upper- Aerial Marker	15J23	NV	173	43	0.021
Tent Mtn., Lower - Aerial Marker	15J22	NV	126	40	0.018
Trout Creek, Upper - AM	15H11	NV	204	77	0.024
Trout Creek, Lower	15H10	NV	56	70	0.008
Taylor Canyon	811	NV	92	33	0.015
Midas	16H03	NV	88	55	0.012
MONTELLO 2 SE	265352	NV	14	42	0.002850932
Tremewan Ranch	15H08	NV	40	54	0.007
Toe Jam - Aerial Marker	16H07	NV	103	54	0.013
Snow Storm Mountain-Am	16H11	NV	130	32	0.018
Stag Mountain AM	15H19	NV	97	49	0.012
Jack Creek, Lower	16H01	NV	61	72	0.009
Jack Creek Upper	548	NV	195	36	0.027
Jakes Creek - Aerial Marker	14H04	NV	96	32	0.014
Fry Canyon	15H07	NV	82	80	0.012
Columbia Basin - Aerial Marker	16H06	NV	98	50	0.015
Seventysix Creek	746	NV	123	36	0.017
Gold Creek	15H05	NV	62	79	0.009
Big Bend	336	NV	99	36	0.015

Laurel Draw	573	NV	94	35	0.014
Fawn Creek	476	NV	171	34	0.024
Goat Creek	257	NV	232	10	0.026
Bear Creek	321	NV	206	36	0.026
O'Neil Creek	15H25	NV	85	29	0.013
Pole Creek R.S.	698	NV	181	34	0.022
Merritt Mountain - Aerial Marker	15H20	NV	92	46	0.013
Fish Creek (Disc)	18G02	OR	214	39	0.027
Fish Creek (Rev.)	18G10	OR	228	74	0.029
Fish Creek Am (Disc)	18G02A	OR	214	20	0.027
Silvies	18G01	OR	121	78	0.018
Stinking Water	18F04	OR	50	55	0.010
Idlewild Camp (Disc)	18F03	OR	59	43	0.011
Rock Springs	18F01	OR	57	78	0.011
Crane Prairie (Disc)	18E19	OR	92	37	0.017
Eldorado Pass	18E20	OR	50	56	0.011
Blue Mountain Summit (Disc)	18E13	OR	75	49	0.015
Dooley Mountain	17E04	OR	90	72	0.017
Tipton	18E09	OR	93	82	0.018
Goodrich Lake	18E06	OR	313	53	0.046
Gold Center (Rev)	18E08	OR	98	76	0.018
Bourne	18E05	OR	129	79	0.022
Intake House (Disc)	18E29	OR	87	11	0.018
Anthony Lake	18E01	OR	240	72	0.034
Schneider Meadows	17D08	OR	249	77	0.046
Beaver Reservoir (Rev.)	18D22	OR	111	76	0.022
Schoolmarm (Disc)	18D07	OR	55	33	0.012
Taylor Green (Disc)	17D07	OR	160	77	0.028
County Line (Rev.)	18D23	OR	73	45	0.015
Aneroid Lake #2	17D02	OR	297	73	0.041
Moss Springs	17D06	OR	206	77	0.035
Lucky Strike	18D06	OR	104	76	0.021
Battle Mountain Sum (Disc)	18D12	OR	42	15	0.010
Meacham	18D05	OR	106	84	0.025
Emigrant Springs (Rev)	18D04	OR	94	83	0.024
Blue Mountain Camp (Disc)	18D16	OR	198	20	0.046
Tollgate	18D03	OR	242	79	0.048
TOOELE	428771	UT	31	69	0.006
Kilfoil Creek	11H31	UT	115	48	0.016
Little Bear-Upper	11H25	UT	107	34	0.016

Little Bear	582	UT	144	37	0.022
Little Bear-Lower	11H26	UT	77	53	0.013
Monte Cristo R.S.	11H12	UT	223	61	0.025
WOODRUFF	429595	UT	32	67	0.005
Bug Lake	11H37	UT	188	38	0.024
Temple Fork	1013	UT	164	14	0.022
Tony Grove Ranger Station	11H03	UT	108	86	0.017
Tony Grove Lake	11H36	UT	345	40	0.041
George Creek	13H05	UT	195	34	0.022
Clear Creek Meadows	13H02	UT	201	33	0.022
Garden City Summit	11H07	UT	145	84	0.019
One Mile Summit	13H01	UT	63	31	0.009
Vipont	13H03	UT	137	49	0.018
Steep Hollow #1	11H27	UT	309	27	0.036
Steep Hollow #2	11H28	UT	220	27	0.029
Klondike Narrows	11H01	UT	162	61	0.022
ASOTIN 14 SW	450294	WA	17	23	0.005
Martin Springs (Disc)	17C02	WA	142	18	0.032
Homestead (Disc)	17C01	WA	114	27	0.028
PULLMAN 2 NW	456789	WA	20	61	0.008
LACROSSE	454338	WA	20	106	0.014
ROSALIA	457180	WA	40	112	0.016
SPOKANE INTL AP	457938	WA	40	115	0.017
SPOKANE WFO	457941	WA	47	19	0.020
Togo	18A10	WA	98	50	0.029
Stranger Mountain	17A05	WA	113	39	0.027
Boyer Mountain	17A02	WA	218	69	0.042
Carlson (Disc)	18A09	WA	58	18	0.020
Chewelah	17A04	WA	102	43	0.021
Chewelah 2	17A08	WA	174	19	0.035
Winchester Creek (Disc)	17A03	WA	88	25	0.030
Baird #2	17A07	WA	76	21	0.024
Baird	17A06	WA	52	32	0.016
Sherman Creek Pass (Disc)	18A01	WA	131	45	0.024
Bunchgrass Meadow	17A01	WA	229	78	0.046
Snow Caps Trail (Disc)	18A06	WA	56	21	0.021
Cabin Creek (Disc)	18A08	WA	64	22	0.020
Snow Caps Creek (Disc)	18A05	WA	48	21	0.022
Boulder Road (Disc)	18A02	WA	56	21	0.039
Goat Creek	18A04	WA	50	53	0.014
Butte Ck #2	18A16	WA	77	54	0.019

Summit G.S. #2	18A15	WA	71	28	0.015
NORTHPORT	455946	WA	50	104	0.034
Summit G.S.	18A07	WA	68	43	0.015
BOUNDARY DAM	450844	WA	68	47	0.037
Hams Fork	509	WY	90	29	0.011
Kelley R.S.	10G12	WY	156	64	0.019
Indian Creek	10G22	WY	247	34	0.026
South Thomas Fork	10G19	WY	135	16	0.017
Big Park	10G11	WY	176	64	0.020
Cottonwood Lake AM	10G05	WY	152	53	0.020
Salt River Summit	10G08	WY	134	67	0.018
Ccc Camp	10G07	WY	106	79	0.014
Cottonwood Creek	419	WY	199	31	0.026
Afton R.S.	10G04	WY	42	54	0.007
Grover Park Divide	10G03	WY	101	79	0.014
Willow Creek	868	WY	253	33	0.030
Youngs Ranch	10G01	WY	165	32	0.025
Greys Boundary	10F18	WY	94	74	0.016
Bryan Flat	10F14	WY	85	68	0.013
Granite Creek	497	WY	158	27	0.023
Gros Ventre Summit	10F19	WY	113	67	0.013
Snow King Mountain	10F20	WY	128	55	0.017
Teton Pass W.s.	10F24	WY	230	54	0.030
Phillips Bench	10F23	WY	257	54	0.031
Elbo Ranch	10F28	WY	98	52	0.014
Togwotee Pass	10F09	WY	260	79	0.027
Blackrock	10F07	WY	177	58	0.020
Freds Mountain	10F22	WY	225	20	0.028
Darby Canyon	10F21	WY	204	54	0.025
Four Mile Meadow	10F06	WY	102	79	0.013
Turpin Meadows	10F05	WY	88	79	0.013
Moran	10F04	WY	101	85	0.015
Moran Bay	10F03	WY	181	53	0.027
Indian Meadows	10F25	WY	313	32	0.038
Base Camp	10F02	WY	162	85	0.023
Jackpine Creek	10F26	WY	178	54	0.024
Arizona	10F01	WY	151	60	0.022
Glade Creek	10E13	WY	188	85	0.027
Huckleberry Divide	10E15	WY	169	85	0.023
Grassy Lake	11E15	WY	272	74	0.037
Snake River Station	10E12	WY	160	85	0.023

Two Ocean Plateau	10E17	WY	290	34	0.031
Coulter Creek	10E10	WY	191	68	0.027
Lewis Lake Divide	10E09	WY	350	85	0.045
Aster Creek	10E08	WY	264	85	0.034
Thumb Divide	10E07	WY	188	77	0.024
Old Faithful	10E18	WY	121	40	0.016
Lake Camp	10E04	WY	100	79	0.013