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# **Estimated Baseflow Characteristics of Selected Washington Rivers and Streams**

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# **Estimated Baseflow Characteristics of Selected Washington Rivers and Streams**

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Water Supply Bulletin No. 60

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Washington State Department of Ecology  
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## USGS

- ◇ Michele Crouse for expediting public distribution of HYSEP and for her insights regarding use of the HYSEP program.
- ◇ The many hydrologists, technicians, and computer specialists who, over the years, built and maintained the stream gages and computer databases this study drew upon.

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# Abstract

Automated hydrograph separation techniques were used to evaluate the groundwater contribution to total streamflow (baseflow) at active and inactive stream gaging stations throughout Washington State. Discharge records for 582 gaging stations, with at least three complete water years of daily mean streamflow data, were downloaded from the U.S. Geological Survey (USGS) National Water Information System. Station characteristics were compiled for each gage, including period of streamflow record, type and degree of regulation affecting the gage, watershed drainage area, USGS station number, station name, and gage location.

Summary statistics were calculated for annual mean streamflow and annual 7-day low flow for all 582 stations. Monthly, and in some cases annual, statistics for baseflow were then estimated using a USGS hydrograph separation software program called HYSEP (Sloto and Crouse, 1996) for those stations judged to be free of significant snowmelt or regulation effects.

Annual unit-area baseflow for the 294 stations free of significant regulation or snowmelt effects ranged from  $<1$  to  $11 \text{ ft}^3/\text{sec}/\text{mi}^2$  with a median value of  $2.9 \text{ ft}^3/\text{sec}/\text{mi}^2$ . Unit-area baseflow for stations located west of the Cascade Mountain crest averaged approximately  $3.2 \text{ ft}^3/\text{sec}/\text{mi}^2$ . Stations located east of the crest averaged approximately  $0.4 \text{ ft}^3/\text{sec}/\text{mi}^2$ . On average, groundwater discharge represented approximately 68% of total annual streamflow for the stations modeled. Estimated groundwater contributions to streamflow for the typical low flow months of July, August, September, and October averaged 86%, 86%, 77%, and 69% respectively. This suggests that reductions in groundwater discharge to streams during this period, due to increased groundwater withdrawals, may significantly impact the instream flows needed to sustain fish and maintain water quality. This highlights the importance of managing surface water and groundwater as a single interconnected resource.

The baseflow estimates provided in this report are best used as basin-scale averages. Any attempt to apply these values as absolute representations of groundwater inflow on either a basin scale or stream segment scale is inappropriate.

Study results were compiled in an ArcView® GIS project for spatial analysis, and a master database was assembled. A compact disc containing the tabular data and ArcView® project files generated during the study accompanies this report.

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# Glossary

**Annual mean...[parameter]** – the mean of the individual daily mean values for a parameter for one complete water year. For example, the “annual mean baseflow” for a given water year is the average of the 365 daily mean baseflow estimates which comprise the water year.

**Annual 7-Day low flow** – the lowest mean streamflow for 7 consecutive days in a water year. Also known as the annual 7-day minimum flow. This value should not be confused with the 7-day 10-year low flow statistic (7Q10), which represents the lowest mean discharge for 7 consecutive days that has a probability of occurring once in 10 years. Units typically presented in terms of cubic feet per second (ft<sup>3</sup>/sec).

**Baseflow** – that component of streamflow derived from groundwater inflow or discharge. Baseflow can be represented by a variety of measurement units, including cubic feet per second (ft<sup>3</sup>/sec) and inches (in). Baseflow presented in units of inches indicates the depth to which a stream’s drainage area would be covered if all of the baseflow for a given time period were uniformly distributed on it.

**Cubic foot per second (ft<sup>3</sup>/sec)** – the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second. The value 1 ft<sup>3</sup>/sec is equivalent to 7.48 gallons per second (gps), or 448.8 gallons per minute (gpm).

**Daily mean streamflow** – the mean value of stream discharge for a 24-hour period, derived from periodic measurements of stream stage. Units typically presented in terms of cubic feet per second (ft<sup>3</sup>/sec).

**Drainage area** – the area, measured in a horizontal plane, which contributes surface runoff to a stream gage. For the purposes of this report, the contributing area for groundwater baseflow is assumed to be equal to the drainage area for surface runoff. Units typically presented in terms of square miles (mi<sup>2</sup>).

**Freshet** – a sudden increase in stream discharge that results from the rapid melting of accumulated snow. In Washington the snowmelt freshet typically starts in March or April and continues until May, June, or July depending on the year and stream in question.

**Hydrograph** – a graphical plot of streamflow data over time.

**Hydrograph separation** – a procedure used to separate a streamflow hydrograph into baseflow and surface runoff components.

**Interflow** – the lateral movement of water in the unsaturated zone during and immediately after a precipitation event. The water moving as interflow discharges directly into a surface water body (Fetter, 1980).

**Median annual...[parameter]** – the median value of all the individual annual mean values estimated for a period of record. For example, if an annual mean baseflow value is estimated for a station with 12 years of data, the median annual baseflow value is the median of the 12 individual annual means. Only those years with no missing daily data are included in the median calculation.

**Monthly mean...[parameter]** – the mean of the individual monthly means for a specific month and period of record. For a station with 12 years of data, for example, the January monthly mean baseflow is the average of the individual monthly means for January of each year. Only those months with no missing daily data are included in the mean calculation for a particular month.

**Return flow** – water that enters the unsaturated zone, flows laterally down slope and then re-emerges at the foot of the slope. Return flow is distinguished from interflow because it does not discharge directly to a stream (Fetter, 1980).

**Seepage study** – a field survey conducted to quantify the interaction between groundwater and streams. Concurrent discharge measurements are made at points along the mainstem of a stream. The relative increase or decrease in discharge between measurement points that is not accounted for through physical diversion or tributary input is the volume of water exchanged between the stream and groundwater storage.

**Surface runoff** – the difference between total streamflow and estimated baseflow (total streamflow – estimated baseflow = surface runoff). Surface runoff is water that enters a stream relatively quickly after a storm event through processes other than baseflow discharge. The individual components of surface runoff (quickflow) can include overland flow, return flow, interflow, and direct precipitation on a stream.

**Unit-area baseflow ( $\text{ft}^3/\text{sec}/\text{mi}^2$ )** – a measure of baseflow normalized to drainage area. Derived by dividing the total baseflow discharge value for a basin by the square mileage area of the basin. For example, if the baseflow value for a drainage basin is estimated to be  $44 \text{ ft}^3/\text{sec}$ , and the total area of the drainage basin is  $80 \text{ mi}^2$ , the unit-area baseflow for the basin is estimated to be  $0.55 \text{ ft}^3/\text{sec}/\text{mi}^2$ .

**Water year** – a term used to describe the 12-month period, starting on October 1 and ending on September 30. A water year is designated by the calendar year in which it ends. Thus, the year ending on September 30, 1997 is called the “1997 water year”

# Introduction

Considerable effort has been expended to characterize the physical, chemical, and biological processes affecting Washington State's groundwater and surface water resources. However, comparatively little effort has gone toward understanding the complex interaction between groundwater and surface water, and the implications this interaction holds for environmental management and the formulation of water-use policy. Washington's increasing reliance on groundwater to supply new water uses, coupled with legal requirements to maintain instream flows and to protect water quality, necessitate a better understanding of surface water/groundwater relationships.

Nearly all streams interact with groundwater to some extent. Previous investigators have shown that groundwater discharge to streams (baseflow) commonly accounts for 50 percent or more of average annual streamflow, and can be a significant non-point source of chemical or nutrient input to streams (Winter et al., 1998). Depletion or contamination of an aquifer can have unforeseen consequences for hydraulically connected streams, leading, in turn, to streamflow depletion or contamination.

This study is intended as an early step toward improving our understanding of the baseflow characteristics of Washington rivers and streams. Such information is crucial for workers attempting to: 1) manage groundwater withdrawals, 2) prevent streamflow depletion, 3) quantify groundwater pollutant loading to streams and rivers, 4) define the role groundwater plays in maintaining streamflows, and 5) design and implement instream-habitat protection and restoration programs.

For this study, baseflow contributions to streams were estimated using a hydrograph separation software program called HYSEP (Sloto and Crouse, 1996). HYSEP is a public domain computer program developed and distributed by the U.S. Geological Survey (USGS). Hydrograph separation techniques divide a stream hydrograph into two major components: baseflow and surface runoff (Sloto and Crouse, 1996; Winter et al., 1998). Baseflow estimates derived through hydrograph separation have traditionally been considered a reasonable approximation of the volume of groundwater discharge to a stream (White and Sloto, 1990; Holtschlag and Nicholas, 1998; Rutledge and Mesko, 1996; Bachman, 1998).

Until recently, manual hydrograph separation was the most common method for estimating baseflow. However, manual techniques are time-consuming when applied to the long periods of record required to produce representative statistics. Automated analysis tools, such as the HYSEP program, have greatly enhanced our ability to perform these analyses. Baseflow estimates produced by the HYSEP program compare favorably with estimates obtained using manual hydrograph separation techniques (Sloto and Crouse, 1996).

## Purpose and scope

The purpose of this study was to improve our understanding of the relative importance that groundwater discharge plays in maintaining streamflow in Washington State. To accomplish this goal, daily mean streamflow data for 582 USGS-managed stream gages throughout the state were compiled and evaluated. Hydrograph separation techniques were used to estimate monthly (and in some cases annual) baseflow statistics for 465 gaging stations judged to have appropriate data. Total annual streamflow and mean 7-day low flow statistics were calculated for all 582 stations, to aid future water-quality and instream-flow investigations.

This report does not eliminate the need for site specific baseflow investigations on either a stream or stream-reach basis. Rather it is intended to serve as a prioritization tool and starting point for such work. The baseflow values presented in this report provide basin-scale estimates of groundwater discharge to streams. Such estimates are useful for basin-to-basin comparisons of baseflow, for preparing initial water budget or recharge estimates for watersheds, and for developing preliminary estimates of groundwater pollutant loading to streams and rivers.

## Previous investigations

Despite the importance of stream/aquifer interactions, published baseflow estimates are available for only a small subset of Washington's rivers and streams. Vaccaro et al. (1998) summarized baseflow estimates for a number of small drainage basins in the Puget Sound Lowland. These estimates were developed during recharge modeling studies (Deep Percolation Model-DPM), or were calculated by water-budget modeling (Hydrological Simulation Program-FORTRAN-HSPF).

Seepage surveys have been conducted by several investigators to quantify groundwater discharge to specific stream reaches (Covert et al., 1995; Larson and Marti, 1996; Erickson, 1993; Sinclair and Hirschey, 1992; Clark et al., 1999; Morgan and McFarland, 1996; and Turney et al., 1995). Mix (1977) and Woodward (1995) used hydrograph separation techniques to estimate baseflow contributions to the Colville River and several East King County watersheds, respectively.

No published studies were identified where automated hydrograph separation techniques have been applied to Washington streamflow data. However, use of computerized hydrograph analysis methods has increased over the last decade, as investigators face the need to characterize groundwater/surface water interactions throughout the nation. Regional-scale baseflow studies using hydrograph analysis were recently completed for:

- ◇ The Great Lakes area (Holtschlag and Nicholas, 1998)
- ◇ Pennsylvania (White and Sloto, 1990)
- ◇ Tennessee (Hoos, 1990)
- ◇ The Chesapeake Bay area (Bachman, 1997; Langland et al., 1995)

- ◇ Appalachia Regional Aquifer System Analysis (Rutledge et al., 1996)
- ◇ The Central Savannah River Basin (Atkins et al., 1996)

## Theoretical background

For streams and rivers that are little influenced by regulation or snowmelt effects, streamflow derives largely from the rapid runoff of precipitation following storm events (quickflow) and the slower, sustained discharge of groundwater (baseflow). These two streamflow components generally exhibit different signatures on a stream hydrograph. Quickflow manifests as rapid spikes or peaks on a hydrograph, while baseflow is comparatively smooth and sustained. This difference is the basis for computerized hydrograph separation techniques, which use an algorithm to draw a line between baseflow and quickflow, in turn allowing daily values for each component to be calculated.

The HYSEP program provides three methods for separating the surface runoff and baseflow components of streamflow. The method selected for this study, the “local minimum” method, generally provides the lowest baseflow estimates of the three approaches, and is therefore considered the most conservative of the models.

Separating streamflow into surface runoff and baseflow components is based on identifying when surface runoff ceases following a storm event and streamflow is entirely sustained by baseflow. The algorithm used by HYSEP to estimate the time duration of surface runoff from a storm event is based on the empirical relation:

$$N = A^{0.2} \quad (Eq. 1)$$

where (N) is the number of days after which direct surface runoff ceases, and (A) is the drainage area in square miles (Pettyjohn & Henning, 1979; Sloto & Crouse, 1996). Once the value of N is determined for a basin, a time interval  $2N^*$  is estimated by determining the odd integer between 3 and 11 that is nearest  $2N$  (e.g., if  $N = 2.26$ , interval  $2N^* = 5$ ). The local minimum method checks each day of a period of record to determine if it has the lowest discharge in one half the interval minus 1 day [ $0.5(2N^*-1)$  days] before and after each day being considered. If this criterion is satisfied, the discharge value for that day is considered a “local minimum” value, and is connected to other local minimum values. The baseflow discharge for all days between local minimums is estimated using linear interpolation. Figure 1 shows an example of the graphical output for a station modeled using the local minimum method.

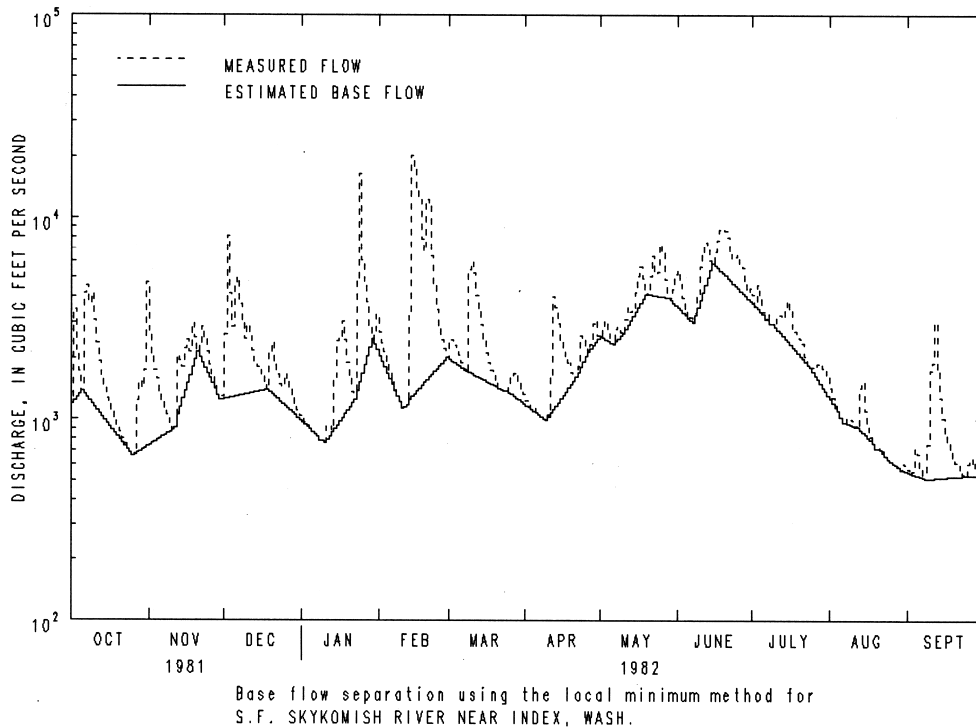


Figure 1. Base Flow Separation Using the Local Minimum Method, S.F. Skykomish River Near Index, WA. (USGS 12133000)

The 0.2 exponential constant used in Equation 1 is an empirically derived value. Applying a universal constant across all stream basins undoubtedly introduces some error into the baseflow estimates produced by HYSEP (Fetter, 1980). Defining the absolute error introduced by use of a generic constant requires detailed knowledge about the characteristics of each basin being evaluated and is beyond the scope of this project.

Computer algorithms, such as those used by HYSEP, are unable in many situations to account for external factors that can modify a stream hydrograph. Reservoir releases and snowmelt, for example, can mitigate the flashy signature of storm events, leading to over-estimation of baseflow (Fetter, 1980, Freeze and Cherry, 1979). The influences of these and other processes on the baseflow estimates produced by HYSEP are discussed in detail later in this report.



# Study Methods

## Compilation of streamflow data

Daily mean streamflow data for all active and discontinued stream gages within Washington State were downloaded in ASCII format from the USGS National Water Information System (NWIS) in Tacoma, WA. (Bartholoma, 1977). Two stations (USGS 12323000 and 12438700) are managed by the USGS but are located in Canada. One station, the Teanaway River below forks near Cle Elum (USGS 12480000), also includes streamflow data collected by the Bureau of Reclamation for 1974-1995.

Those stations with at least three complete years of discharge data (582 in all) were subsequently selected and prepared for further analysis (Plate 1). The raw NWIS data for these stations, (in ASCII WATSTORE format), was converted to binary WDM format using the USGS program IOWDM (Flynn et al., 1997). All 582 stations were analyzed to define mean annual discharge and mean 7-day low flow summary statistics for each station by water year.

Using descriptions provided by the USGS, stations were categorized based on the degree and type of regulation reported to effect each gage (Wiggins et al., 1996; State of Washington, 1955 and 1962). The categories include:

- High degree of stream regulation: reservoirs, diversions, or other factors significantly alter the stream discharge on an annual, seasonal, or daily basis.
- Moderate degree of stream regulation: reservoirs, diversions, or other factors have a moderate effect on the stream's annual, seasonal, or daily discharge.
- Low degree of stream regulation: reservoirs, diversions, or other factors have only a slight effect on the stream's annual, seasonal, or daily discharge.
- Non-regulated streams: no reservoirs, significant diversions, or other factors are reported to effect the stream discharge.

On the basis of this information, 117 stations were judged to be moderately to highly influenced by streamflow regulation due to reservoir releases, hydropower generation, interbasin transfers of water, or flood control activities. Due to the likelihood that the stream hydrograph for these stations had been significantly altered by regulation, these stations were excluded from further baseflow analysis. An additional 171 stations were judged to be influenced by seasonal snowmelt effects and were excluded from baseflow analysis for those months when snowmelt significantly effects streamflow. Annual baseflow statistics were not calculated for these stations.

A total of 14,704 water years of data were evaluated during this study. The length of data record used for analysis ranged from 3 to 106 water years. The average length of data record was 25 water years. Sixty-five percent (382) of the stations had little or no reported streamflow regulation above the gage. The remaining stations were subject to moderate or high levels of regulation. Approximately 30% (173) of the stations were active stream gaging sites as of 1997. The remainder of the stations are inactive.

## Statistical data analysis

Using the algorithms described above, the HYSEP program analyzes the entire streamflow data set for a station, and produces baseflow and surface runoff estimates for each day having valid input data. These daily estimates are then used to produce, where appropriate, monthly and annual summary statistics in a variety of measurement units.

HYSEP calculates mean monthly baseflow statistics for each water year by averaging the daily baseflow estimates for each month within the year. These values are referred to as “monthly means”. Monthly statistics are generated only for those months that do not have missing daily values. The monthly statistics were collectively analyzed to determine the minimum, maximum, and median monthly mean baseflow and streamflow statistics (by month) for the period of record.

HYSEP also calculates the “annual mean” baseflow for every complete<sup>1</sup> water year in a period of record. Annual values are derived by averaging the daily baseflow estimates for each water year. The annual means estimated by HYSEP for all the years in a period of record were then collectively analyzed to determine the minimum, maximum, and median annual mean baseflow values for each station. Figure 2 graphically illustrates the summary statistics developed for annual baseflow. A similar analysis was conducted for all stations for total streamflow.

Daily mean streamflows were also analyzed for each station to calculate the annual 7-day low flow for each year. These statistics were calculated using SWSTAT, a public domain software program distributed by the USGS (Flynn et al., 1995). The annual 7-day low flow values for each station were then collectively analyzed to determine the minimum, maximum, and median 7-day low flow for the period of record.

Reported streamflow and baseflow values have been rounded to conform to standard USGS protocol (Wiggins, 1996). Discharges are reported to the nearest hundredth for values less than 1 cubic foot per second ( $\text{ft}^3/\text{sec}$ ), to the nearest tenth from 1 to  $9.99 \text{ ft}^3/\text{sec}$ , and the nearest unit from 10 to  $999 \text{ ft}^3/\text{sec}$ . All values of  $1,000 \text{ ft}^3/\text{sec}$  or greater are rounded to three significant digits.

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<sup>1</sup> The HYSEP program will not calculate an annual mean for years with missing daily data.

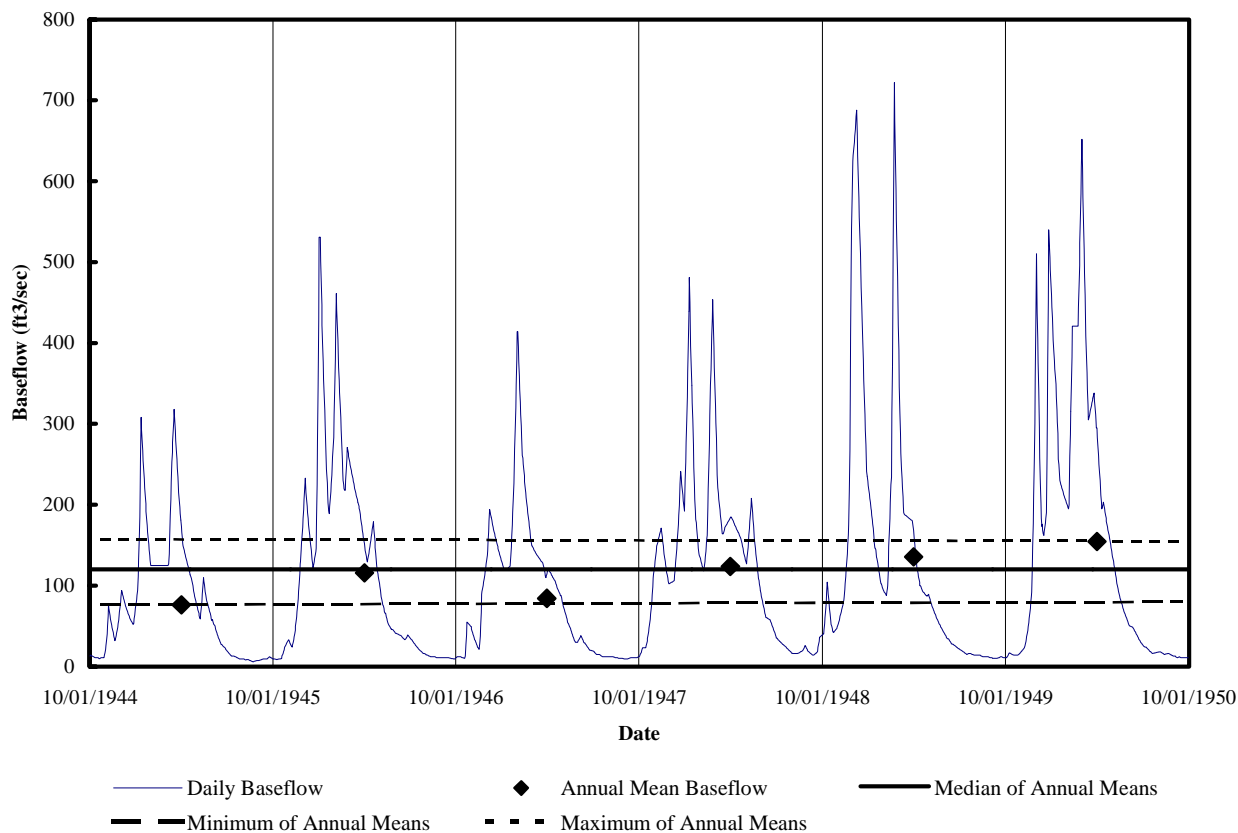


Figure 2. Graphical Depiction of Baseflow Statistics, Black River at Littlerock, WA. (USGS 12029000)

## Compilation and preparation of digital data

### Tabular data

Data developed during this study were compiled as ASCII tab-delimited data files and are contained on the accompanying compact disc (Appendix D). The files include:

- a station descriptor table
- a regulation descriptor table
- a table of annual baseflows and streamflows by station and water year
- a table of minimum, maximum, and median annual baseflow/streamflow summary statistics by station
- a table of monthly baseflow/streamflow summary statistics by station

A directory and instructions for viewing these files are included in the README.txt file found on the compact disc.

## Geographic data

As part of this project an ARCINFO® point coverage was developed based upon the USGS reported latitude/longitude coordinate pairs for each gaging station<sup>2</sup>. ArcView® GIS software was used to spatially map and evaluate the annual and monthly baseflow statistics derived from the HYSEP program output. A compiled ArcView® project file with associated data tables and graphical summaries of the annual and monthly HYSEP output can be found on the digital compact disc that accompanies this report (Appendix D). ArcView® (used to prepare the plates accompanying this report) allows users to rapidly access statistical information for an individual site, or to spatially analyze areal trends in baseflow or streamflow characteristics for multiple stations.

Line graphs of estimated annual baseflow, total streamflow, and 7-day low flow versus water year were prepared for all stations with at least 10 years of data, an example of which is shown in Figure 3. Similarly, graphs of estimated baseflow, total streamflow, and surface runoff versus month were prepared for all stations with at least three years of data, an example of which is shown in Figure 4. Both graph types are hot-linked<sup>3</sup> to the ArcView® project file. The average monthly values were determined using only those months that had no missing daily values. Thus the total number of months (N) used to define the mean for individual months may vary.

Specific operating instructions, a file directory, and attribute field definitions for the ArcView® project file are presented in the README.txt file found on the compact disc.

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<sup>2</sup> The coordinates for Stations 12033000, 12419500, and 12433200 were corrected to address known locational errors.

<sup>3</sup> “hot-linked” graphics are files that are automatically opened within ArcView® by double-clicking on a point of interest within the GIS environment.

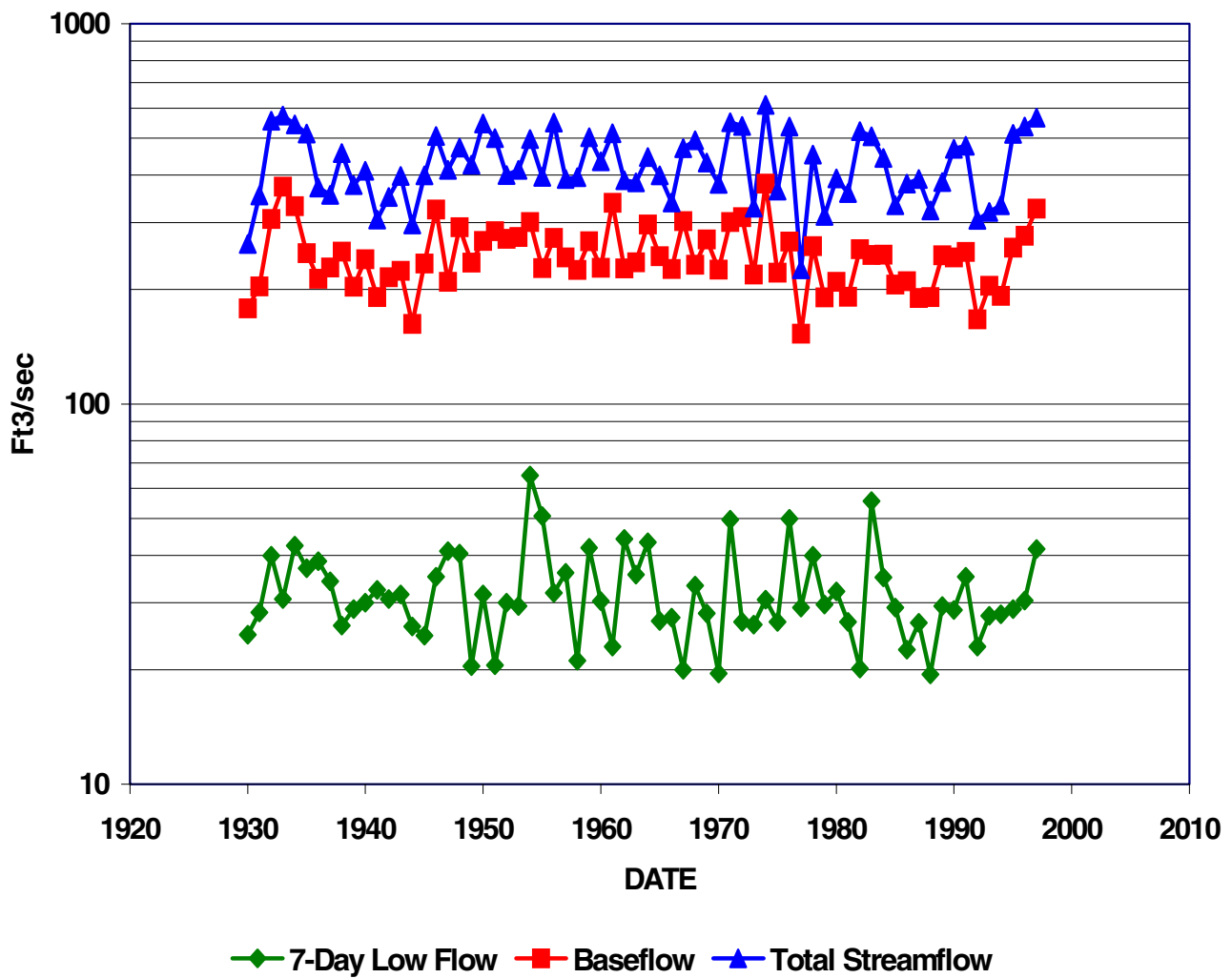


Figure 3. Comparison of Annual Mean Streamflow, Estimated Annual Mean Baseflow, and Annual 7-Day Low Flow, Naselle River Near Naselle, WA. (USGS 12010000)

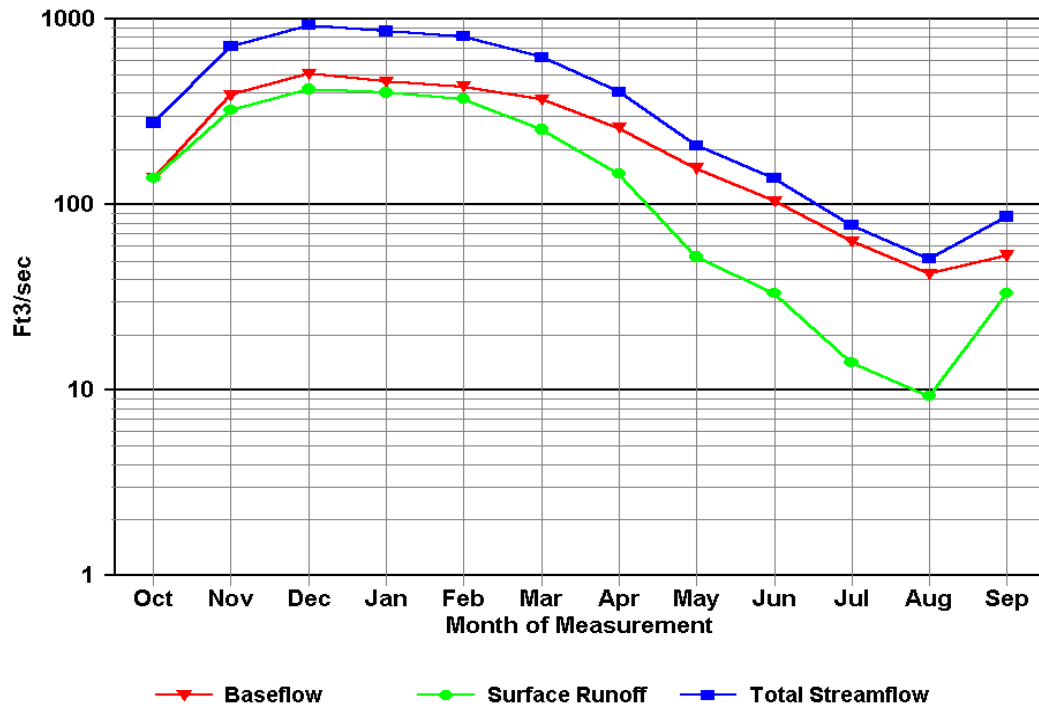


Figure 4. Comparison of Estimated Monthly Mean Baseflow, Mean Surface Runoff, and Mean Streamflow, Naselle River Near Naselle, WA. (USGS 12010000)

# Results

Plate 1 shows the location, name, USGS Site ID, and map ID of the gaging stations evaluated during this study. A master table describing significant characteristics of each station is presented in Appendix A. Included are the length and period of record analyzed; drainage area; estimated degree, type, and timing of streamflow regulation; and station location information. The years of data used for analysis, the degree of regulation, and the drainage area size for each station are presented in map form on Plate 2 (Plates 2A, 2B, and 2C).

## Monthly statistics

Appendix B contains summary monthly statistics for estimated baseflow, surface runoff, and total streamflow, ordered sequentially by station number. Monthly mean baseflow as a percentage of total streamflow is presented in map form on Plate 3 for February, May, August, and November (Plates 3A, 3B, 3C, and 3D respectively). Baseflow estimates are not included on Plate 3 for stations that are known to be significantly influenced by regulation or snow melt.

The monthly mean baseflow contribution to total streamflow for the critical low-flow months of July, August, September, and October averaged 86% (n=360), 86% (n=459), 77% (n=461), and 69% (n=463), respectively.

## Annual statistics

Appendix C contains summary annual statistics for estimated baseflow, total streamflow, and 7-day low flow ordered by station number. The median of the annual means for total streamflow, 7-day low flow, and baseflow are presented for all applicable stations on Plate 4 (Plates 4A, 4B, and 4C, respectively). Estimated median annual mean baseflow as a percent of total streamflow is presented in Plate 5A for all applicable stations. Estimated median annual mean baseflow (in inches) and median annual mean unit-area baseflow (in  $\text{ft}^3/\text{sec}/\text{mi}^2$ ) is presented in Plates 5B and 5C respectively. Baseflow estimates are not included on Plates 4 and 5 for those stations that are known to be significantly influenced by regulation or snow melt.

The median annual mean baseflow contribution averaged 68 percent for the 294 stations with sufficient data to perform the analysis and ranged from 29 -100 percent of total streamflow. The median annual baseflow contribution for these stations averaged 40 inches and ranged from 0 to 153 inches. Median annual unit-area baseflow averaged  $2.9 \text{ ft}^3/\text{sec}/\text{mi}^2$  and ranged from  $<1$  to  $11 \text{ ft}^3/\text{sec}/\text{mi}^2$ . The average median annual unit-area baseflow for 263 stations west of the Cascade crest ( $3.2 \text{ ft}^3/\text{sec}/\text{mi}^2$ ) was significantly greater than that for 33 stations lying east of the crest ( $0.4 \text{ ft}^3/\text{sec}/\text{mi}^2$ ).

# Data Limitations

While the HYSEP program avoids the inconsistencies and biases inherent in manual methods, hydrograph separation remains an empirical technique that simplistically divides the complex processes sustaining surface water drainage within a watershed. Despite this limitation, the consistent application of baseflow separation algorithms to multiple drainage basins allows regional comparisons of the role groundwater plays in sustaining streamflow.

A variety of factors can influence the accuracy of baseflow estimates derived via hydrograph separation, including: the period and length of data record, the degree and timing of streamflow regulation, snowmelt effects, climatological influences, bank storage effects, and the reliability of the source data. While an effort has been made in this report to screen out stations where these effects are judged to introduce an unacceptable error, the data user should learn to recognize potential sources of error in the baseflow estimates. Some of these factors are discussed below.

## Period of data record

Less than 30 percent of the gaging stations analyzed for this study are presently monitored. This suggests that the baseflow and streamflow estimates provided in this report may not accurately depict current conditions for many streams, particularly those where watersheds are undergoing rapid land use changes such as urbanization or intensive logging. The estimates provided in this report are only applicable to the period of record analyzed.

## Length of data record

Long periods of data record are typically less influenced by short-term climatic variability than are short periods of record, and thus tend to produce more representative estimates of “average” baseflow or streamflow conditions. Figure 3 shows the annual data for the Naselle River near Naselle (USGS 12010000) for water year 1930 to present. Based on 68 years of data, the average annual 7-day low flow and estimated baseflow for this station were 32 and 246 ft<sup>3</sup>/sec respectively. However, evaluating this data using a moving 10-year period of record yielded 7-day low flow values ranging from 27 to 38 ft<sup>3</sup>/sec, while estimated baseflows ranged from 210 to 273 ft<sup>3</sup>/sec. This example demonstrates the importance of considering the length of data record, and climatological conditions during the record period, when judging the baseflow values.

## Streamflow regulation

Stream regulation for flood control, irrigation, hydropower, and other purposes can significantly alter the timing and magnitude of streamflow within a watershed. Previous authors have shown that the effects of stream regulation on baseflow are highly variable



and site specific. In some cases, an apparent increase in baseflow was noted after regulation was initiated, in others an apparent decrease (White and Sloto, 1990). Defining how regulation has altered the timing and/or volume of streamflow at a gaging station is the key to interpreting how regulation might have affected estimated baseflow. For example, reservoir storage of winter runoff may mitigate the flashy runoff processes normally observed in a non-regulated stream. The subsequent release of stored surface runoff, if it occurs gradually, can mimic baseflow on a hydrograph. Under such circumstances HYSEP may incorrectly interpret the gradual release of stored surface runoff as baseflow.

An example of regulation effects is shown for the Wynoochee River above Black Creek near Montesano (USGS 12037400) (Figure 5).

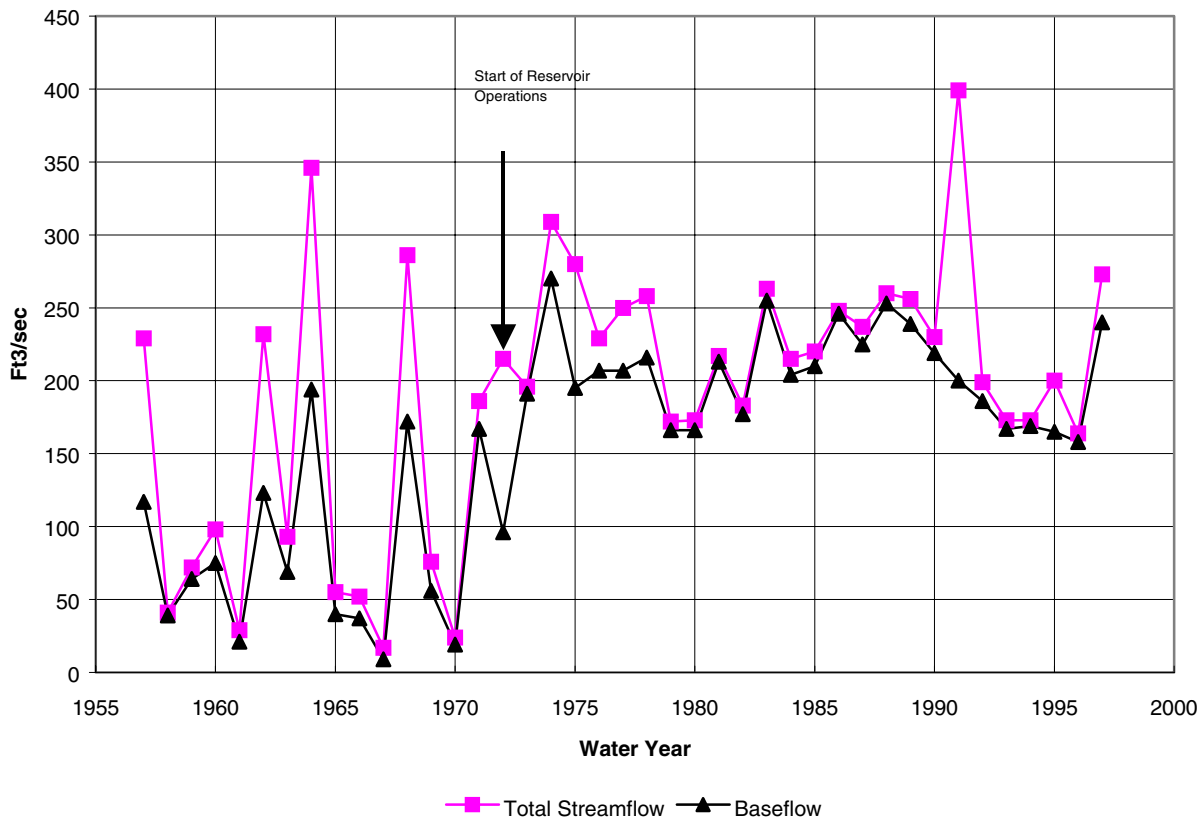


Figure 5. August Baseflow and Total Streamflow, Wynoochee River Above Black Creek Near Montesano, WA. (USGS 12037400)

The plot of mean August baseflow and total streamflow exhibits significantly different characteristics for the pre- vs. post-regulation periods. Streamflow and baseflow values for the pre-regulation period (1957-1971) averaged 122 and 80 ft<sup>3</sup>/sec respectively, while post-regulation streamflow and baseflow (1972-1997) averaged 230 and 202 ft<sup>3</sup>/sec respectively. Prior to regulation baseflow comprised 65% of total August streamflow. This value rose to 87% following the onset of regulation, an apparent increase of 22%. In this example regulation significantly altered the seasonal streamflow distribution, resulting in erroneous post-regulation baseflow estimates for August.

It is important to note that the onset of regulation has comparatively little effect, in this case, on the *annual* baseflow estimates for this station. Figure 6 reveals very little difference in estimated annual baseflow and total streamflow following the onset of reservoir operations, although annual mean 7-day low flow values increase dramatically. This highlights the importance of examining both the annual and seasonal baseflow data for a station. HYSEP's inability to distinguish between regulated and non-regulated streamflow can lead to false conclusions regarding both the annual and monthly baseflow characteristics of a watershed.

To assist readers, we have compiled relevant station information such as the number of years of data modeled, the period of data record, and reported regulation information for each station (Appendix A). As an additional precaution, we have chosen not to produce baseflow statistics for stations that are known to be moderately or highly influenced by reservoir storage and/or releases. The degree, type, and timing of regulation effects, if any, should be carefully considered when evaluating data for the remaining stations.

## **Drainage area**

Several authors have recommended against the use of hydrograph-separation techniques to derive baseflow for watersheds exceeding 400 to 500 square miles in size (White and Sloto, 1990; Holtschlag and Nicholas, 1998; Rutledge and Mesko, 1996). This is due to concerns that storm events or watershed hydrogeologic characteristics are likely to be non-uniform over larger areas. Only 39 (~ 8 percent) of the stations evaluated for baseflow during this study have drainage areas greater than 500 mi<sup>2</sup>. Users should employ caution when evaluating the results for these watersheds.

It should also be noted that the baseflow estimates produced by HYSEP are developed on the assumption that the groundwater basin contributing baseflow to a gaged stream coincides with the gaged surface water basin. For some watersheds this may not be the case. Stations with unusually high unit-area baseflow estimates may have significant groundwater contributions from outside of the surface water basin. Baseflows reported in inches and as unit-area values, in this report, should be considered approximations.

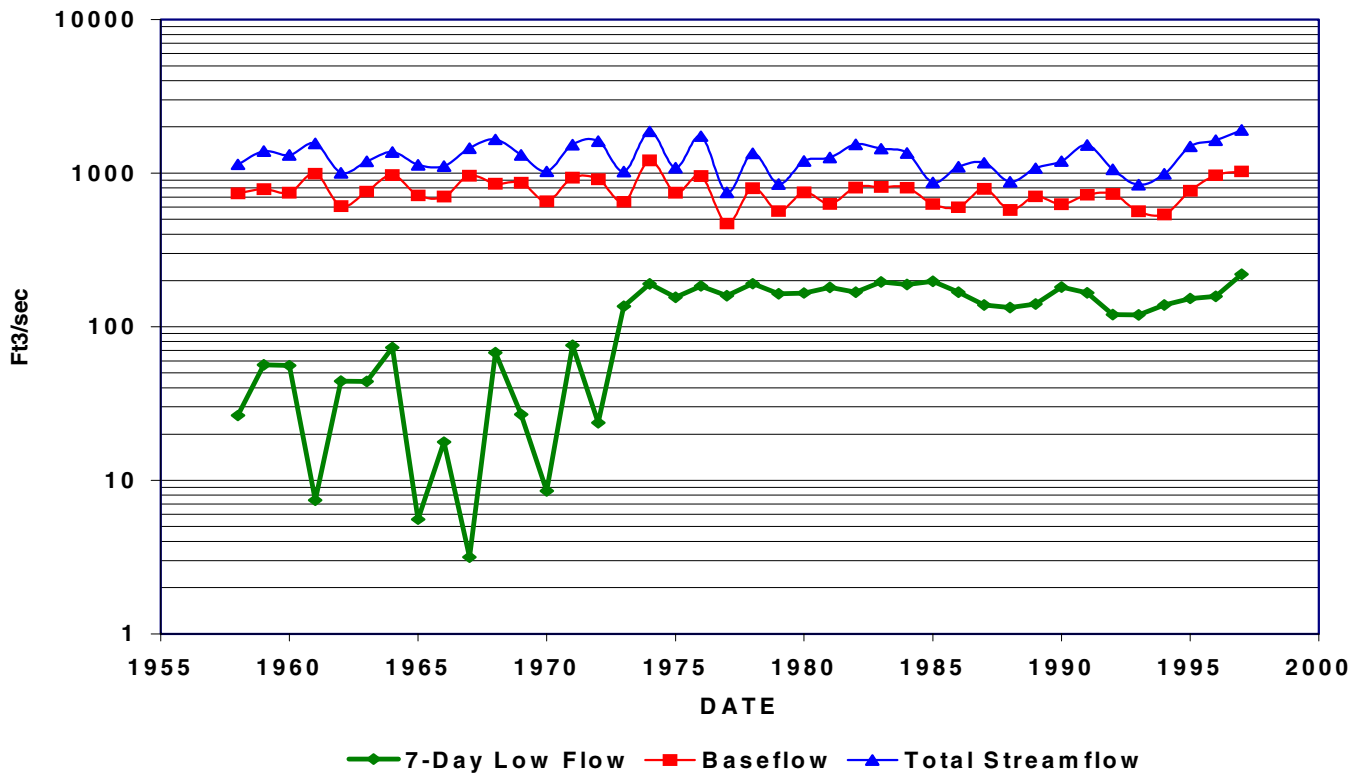


Figure 6. Comparison of Annual Mean Streamflow, Estimated Annual Mean Baseflow, and Annual 7-Day Low Flow, Wynoochee River Above Black Creek Near Montesano, WA. (USGS 12037400)

## Snow/glacial melt

Meltwater is another significant factor that potentially affects the accuracy of baseflow estimates. Many streams in Washington (particularly Eastern Washington) derive a significant percentage of their annual discharge from melting snow and/or glacial meltwater (snowmelt). Snowmelt (like reservoir releases) can mimic groundwater discharge on the hydrograph, making it impossible for HYSEP to differentiate between the two processes. Where this happens, HYSEP aggregates snowmelt and groundwater discharge, and therefore produces erroneously high baseflow estimates.

Figure 7 is a plot of monthly baseflow, surface runoff, and total streamflow for Chamokane Creek (USGS 12433200) for the station period of record. This graph illustrates the typical pattern for snowmelt influenced streams, i.e., a gradual but significant increase in total streamflow during the spring snowmelt period. Because it is unable to differentiate between snowmelt and groundwater discharge, HYSEP incorrectly predicts that groundwater discharge to the creek accounts for approximately 80-85% of

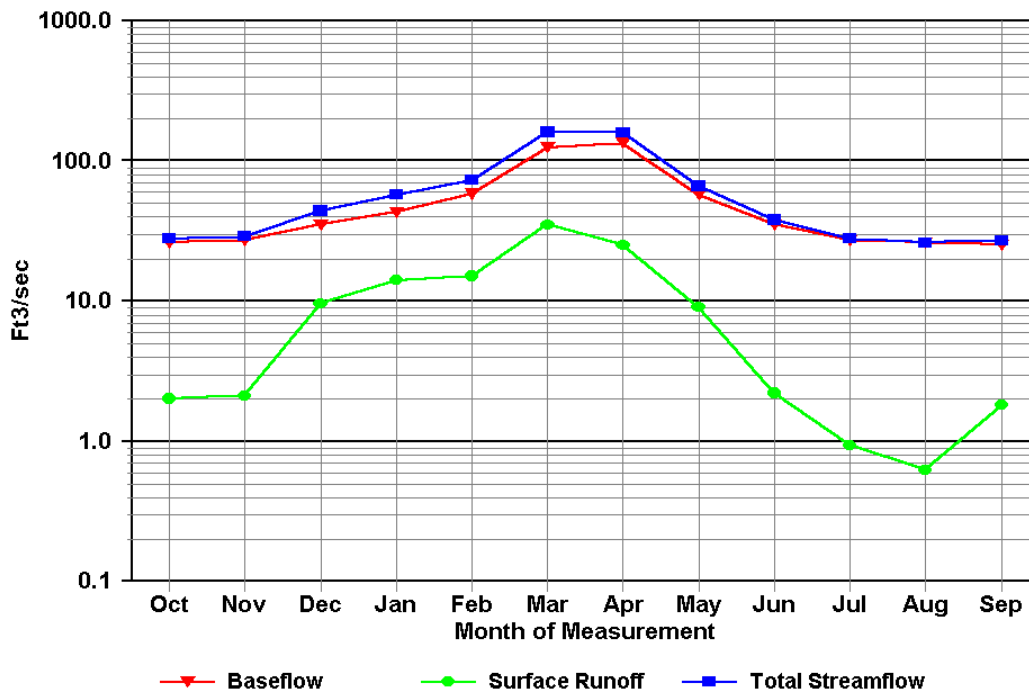


Figure 7. Comparison of Estimated Monthly Mean Baseflow, Mean Surface Runoff, and Mean Streamflow, Chamokane Creek Below Falls Near Long Lake, WA (USGS 12433200)

total discharge during the March-May period. In reality a significant proportion of the flow during this period (and on an annual basis) is derived from snowmelt (Covert, 1999). During the remainder of the year, when snowmelt is not a significant factor, HYSEP correctly predicts groundwater contributions to total streamflow. In this case, HYSEP would incorrectly predict that Chamokane Creek is, on an annual basis, a groundwater driven system, when in fact it is dominated by surface runoff processes.

Given HYSEP's inability to differentiate between snowmelt processes and groundwater discharge, no annual baseflow estimates are presented for those stations that have obvious and significant snowmelt influences. In addition, we did not produce monthly baseflow statistics for these stations for the period of highest snowmelt (March/April – June/July).

## **Alternative baseflow analysis techniques**

The baseflow estimates developed through hydrograph separation are not always directly correlative to those derived through other analysis methods such as seepage studies, HSPF modeling, or Darcy-flux calculations. Hydrograph-separation techniques define average baseflow characteristics for an entire gaged watershed based on long-term streamflow data. An assumption of hydrograph-separation methods is that groundwater contribution to streamflow is equally distributed throughout the length of the gaged stream. This is rarely the case.

In contrast, stream-seepage studies typically provide a “snapshot” perspective of groundwater discharge, based on the stream conditions prevailing at the time of the study. A significant advantage of field seepage studies is that one can identify both losing and gaining stream reaches. The reach specific baseflow values obtained through seepage studies may differ, by an order of magnitude or more, from the basin-average values presented in this report.

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# Summary and Conclusions

This study was undertaken to improve our understanding of the hydrologic interactions between groundwater and surface water within Washington State. Increasing reliance on groundwater to meet the growing demand for fresh water, coupled with legal requirements to maintain streamflows and to protect water quality, necessitates a better understanding of the surface water/groundwater connection.

Five hundred and eighty-two active or discontinued USGS stream gaging stations with at least three complete years of discharge data were initially examined for the analysis. The stations had an average of 25 years of data and ranged from a low of three years to a high of 106 years. Twenty percent (117) of the stations evaluated are highly to moderately affected by streamflow regulation due to reservoir releases, hydropower generation, interbasin transfers of water, or flood control activities. The remaining streams have little to no reported regulation above the station.

Summary statistics were calculated for total annual streamflow and annual 7-day low flow for all 582 stations. After screening to identify stations judged to be significantly influenced by regulation, computerized hydrograph-separation techniques were used to define the groundwater component of streamflow (baseflow) for 465 stations with little-to-no reported regulation. Summary statistics for monthly and annual baseflow estimates were then calculated for all stations with appropriate data.

For the 294 stations evaluated for annual baseflow, estimated median annual unit-area baseflow ranged from less than 1 to approximately  $11 \text{ ft}^3/\text{sec}/\text{mi}^2$ , and averaged  $2.9 \text{ ft}^3/\text{sec}/\text{mi}^2$ . Unit-area baseflow for 263 stations located west of the Cascade Mountain crest averaged approximately  $3.2 \text{ ft}^3/\text{sec}/\text{mi}^2$ . For the 33 stations located east of the crest, unit-area baseflow averaged approximately  $0.4 \text{ ft}^3/\text{sec}/\text{mi}^2$ . Estimated median annual baseflow, as a percentage of total streamflow, averaged 68%, and ranged from 29 to 100 percent.

Estimated baseflow contributions (mean monthly) to total streamflow for the critical low-flow months of July, August, September, and October averaged 86%, 86%, 77%, and 69%, respectively. The dominance of streamflow by groundwater discharge during these months, when water use is typically highest and streamflows are low, highlights the importance of managing surface water and groundwater as a single interconnected resource. With increased reliance on groundwater to supply new development, the likelihood of reducing the natural discharge of groundwater to streams increases. Failure to acknowledge and account for this connection during future groundwater allocation and land-use permitting decisions may adversely affect senior surface water rights, surface water quality, and the instream flows needed to sustain fish and other aquatic organisms.

The baseflow estimates provided in this report are best used as basin-scale averages. Any attempt to apply these values as absolute representations of groundwater inflow on either a basin scale or stream segment scale is inappropriate. Hydrograph separation is a

comparatively simplistic tool that may provide erroneous results for streams and rivers influenced by significant regulation or snowmelt. Readers of this report are responsible for judging the validity of the estimates provided, based on the unique characteristics of the drainage basin in question and the intended use of the information.



# Recommendations and Suggestions for Additional Study

We recommend that inactive gages be re-established in rapidly developing watersheds, especially those where groundwater contributes significantly to streamflow. This will help define current baseflow conditions and trends.

We suggest the following as possible future areas of investigation.

## **1. Use baseflow data to estimate groundwater recharge**

Estimating the annual volume of groundwater recharge within a watershed is a critical aspect of many hydrogeologic investigations. This is particularly true for studies involving the calibration of numerical groundwater-flow models or preparation of water budgets. For watersheds in hydraulic equilibrium, baseflow can be used to derive basin average estimates of recharge (Hoos, 1990; Mau and Winter, 1997; Rutledge and Daniel, 1994; Rutledge and Mesko, 1996). The baseflow estimates provided in this report could be used to estimate the mean annual volume of groundwater recharge for the drainage area lying above each of the modeled gages.

## **2. Evaluate groundwater solute loading to streams and rivers**

By integrating baseflow estimates with groundwater-quality information, it is possible to estimate groundwater solute loading to streams and rivers (Bachman, 1997; Bachman et al., 1998; Langland et al., 1995). Water-quality data can be linked via GIS software to well sites within a modeled watershed to define the concentration and spatial distribution of solutes of concern. Baseflow estimates can then be integrated with this information to estimate loading.

## **3. Evaluate the effects of land-use changes on streamflow**

Logging operations, urbanization, and other land-use changes can significantly alter the seasonal and annual distribution of streamflow within a watershed (Dunne and Leopold, 1978). It is likely that such changes can also affect the seasonal and annual distribution of baseflow. The information presented in this report could be used in conjunction with land-use and water-use data to help define the effects of urbanization, forestry practices, and other land uses on groundwater discharge to streams. Understanding how these activities have influenced streamflows may enable planners to formulate policies to minimize the undesirable effects of future land-use changes.

Integral to this type of study is a proper trend analysis of the baseflow data presented in this report. Such studies may be particularly fruitful where peak flow and 7-day low flow data are also available for evaluation.

#### **4. Estimate average water table hydraulic characteristics by watershed**

Evaluating the hydraulic properties of aquifers is a fundamental aspect of most groundwater investigations. Such information is necessary for the proper design and calibration of groundwater-flow models, predicting the effects of groundwater withdrawals on streamflows and other wells, and understanding patterns of groundwater movement.

A number of authors have used baseflow information to estimate the hydraulic characteristics of shallow aquifer systems (Rutledge and Mesko, 1996; Bevens, 1986; Hoos, 1990; Trainer and Watkins, 1974). The baseflow estimates provided in this report could be used in similar fashion to develop preliminary estimates of hydraulic properties for water-table aquifers within Washington.

#### **5. Define baseflow characteristics for ungaged watersheds**

Despite the relatively large number of gaging stations evaluated during this investigation, large areas of the state have yet to be characterized. The lack of streamflow monitoring for most rivers and streams makes it impossible to define baseflow through hydrograph separation techniques. Regression analysis of basin characteristics (e.g., surficial geology, precipitation) for modeled vs. unmodeled watersheds may be a relatively efficient mechanism for estimating baseflow in ungaged watersheds.

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# Appendices

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**Appendix A. Characteristics of Modeled Gaging Stations**

USGS Station No.	LAT (ddmmss)	LONG (ddmss)	Station Name	Map			HUC	Period of Record (Calendar Yr.) *	Years of Data (1)	Degree of Regulation (2)	Type of Regulation (3)
				ID	Drainage Area (mi2)	WRIA County					
12009500	461948	1235437	Bear Branch nr Naselle, Wa.	1	11.7	24 Pacific	17100106	1963-75	12	None	
12010000	462227	1234432	Naselle R. nr Naselle, Wa.	2	54.8	24 Pacific	17100106	1929-present	68	None	
12010500	462120	1234500	Salmon Cr. nr Naselle, Wa.	3	16.4	24 Pacific	17100106	1953-65	12	Low	DO
12010700	462039	1234823	S. Fk. Naselle R. nr Naselle, Wa.	4	17.9	24 Pacific	17100106	1964-75;1977	12	Low	R
12011000	462930	1235000	N. Nemah R. nr S. Bend, Wa.	5	18	24 Pacific	17100106	1946-54;1964-68;1977	13	None	
12011200	463149	1235139	Williams Cr. nr S. Bend, Wa.	6	9.43	24 Pacific	17100106	1964-74;1977	11	None	
12011500	463350	1233335	Willapa R. at Lebam, Wa.	7	41.4	24 Pacific	17100106	1948-71	23	Low	DI
12012000	463319	1233500	Fk. Cr. nr Lebam, Wa.	8	20.4	24 Pacific	17100106	1953-70	17	Low	A
12013500	463900	1233910	Willapa R. nr Willapa, Wa.	9	130	24 Pacific	17100106	1948-54;1961-present	42	Low	DI
12014500	463742	1234212	S. Fk. Willapa R. nr Raymond, Wa.	10	27.8	24 Pacific	17100106	1953-71	18	Low	D
12015100	464459	1234559	Clearwater Cr. nr Raymond, Wa.	11	3.98	24 Pacific	17100106	1964-75	11	Low	D
12015200	464525	1234625	Smith Cr. nr Raymond, Wa.	12	57.7	24 Pacific	17100106	1963-66	3	Low	DI
12015500	464655	1232850	North R. nr Brooklyn, Wa.	13	29.8	24 Pacific	17100106	1953-65	12	Low	DI
12016500	465420	1234250	Little N. R. nr Cosmopolis, Wa.	14	18.6	24 Grays Harbor	17100106	1946-49;1953	3	Low	D
12017000	464827	1235058	North R. nr Raymond, Wa.	15	219	24 Grays Harbor	17100106	1927-77	52	Low	DI
12018000	465445	1234920	Newskah Cr. nr Aberdeen, Wa.	16	7.44	22 Grays Harbor	17100105	1946-49	3	None	
12018500	465625	1234810	Charley (Charlies) Cr. nr Aberdeen, Wa.	17	5.93	22 Grays Harbor	17100104	1946-49	3	None	
12020000	463703	1231635	Chehalis R. nr Doty, Wa.	18	113	23 Lewis	17100103	1939-present	57	None	
12020500	463742	1231950	Elk Cr. nr Doty, Wa.	19	46.7	23 Lewis	17100103	1942-50;1967-70	9	None	
12020900	463138	1230658	S. Fk. Chehalis R. nr Boistfort, Wa.	20	44.9	23 Lewis	17100103	1965-80	14	Low	DI
12021000	463245	1230755	S. Fk. Chehalis R. at Boistfort, Wa.	21	48	23 Lewis	17100103	1942-50;1961-65	10	Low	DI
12024000	463434	1224058	S. Fk. Newaukum R. nr Onalaska, Wa.	22	42.4	23 Lewis	17100103	1944-49;1957-71	18	Low	DI
12024500	463920	1224640	N. Fk. Newaukum R. nr Forest, Wa.	23	31.5	23 Lewis	17100103	1944;1957-66	5	High	D
12025000	463713	1225638	Newaukum R. nr Chehalis, Wa.	24	155	23 Lewis	17100103	1929-31;1942-81;1982-present	56	Low	DI
12025300	464130	1225425	Salzer Cr. nr Centralia, Wa.	25	12.6	23 Lewis	17100103	1968-71	3	None	
12025700	464622	1223534	Skookumchuck R. nr Vail, Wa.	26	40	23 Thurston	17100103	1967-present	29	None	
12026000	464715	1224245	Skookumchuck R. nr Centralia, Wa.	27	61.7	23 Thurston	17100103	1929-34;1940-69	33	None	
12026150	464725	1224403	Skookumchuck R blw Bldy Rn Cr N Centralia, Wa.	28	65.9	23 Thurston	17100103	1929-33;1939-present	28	High	R(1971)
12026400	464620	1225523	Skookumchuck R. nr Bucoda, Wa.	29	112	23 Thurston	17100103	1967-present	29	High	DIR(1971)
12027000	464410	1231040	Lincoln Cr. nr Rochester, Wa.	30	19.3	23 Lewis	17100103	1942-50	6	Low	I
12027500	464634	1230204	Chehalis R. nr Grand Mound, Wa.	31	895	23 Thurston	17100103	1928-present	68	Moderate	DIR(1971)
12029000	465410	1230120	Black R. at Little Rock, Wa.	32	63.7	23 Thurston	17100103	1942-50	6	Low	
12030000	465205	1231825	Rock Cr. at Cedarville, Wa.	33	24.8	23 Grays Harbor	17100103	1942-71	27	Low	I
12030900	465700	1231730	Porter Cr. at Porter, Wa.	34	35.3	23 Grays Harbor	17100104	1942-49	4	Low	DI
12031000	465617	1231845	Chehalis R. at Porter, Wa.	35	1294	23 Grays Harbor	17100103	1952-72;1975-85;1986-present	42	Moderate	DIR(1971)
12032500	470017	1232311	Cloquallum R. at Elma, Wa.	36	64.9	22 Grays Harbor	17100104	1942-72	28	Low	RD
12033000	465856	1232439	Chehalis R. at S. Elma, Wa.	37	1417	24 Grays Harbor	17100106	1942-45;1947-52	5	Low	DI
12034200	470740	1232500	E. Fk. Satsop R. nr Elma, Wa.	38	65.9	22 Mason	17100104	1957-71	14	None	
12035000	470007	1232937	Satsop R. nr Satsop, Wa.	39	299	22 Grays Harbor	17100104	1929-present	68	None	
12035400	472305	1233620	Wynoochee R. nr Grisdale, Wa.	40	41.3	22 Grays Harbor	17100104	1965-present	30	High	R(1969)
12035450	472228	1233808	Big Cr. nr Grisdale, Wa.	41	9.57	22 Grays Harbor	17100104	1972-96	24	None	
12035500	472000	1233900	Wynoochee R. at Oxbow, nr Aberdeen, Wa.	42	70.7	22 Grays Harbor	17100104	1925-52	27	None	
12036000	471800	1233905	Wynoochee R. abv Save Cr nr Aberdeen, Wa.	43	74.1	22 Grays Harbor	17100104	1925-present	45	High	R(1969)
12036500	471045	1233730	Wynoochee R. nr Montesano, Wa.	44	112	22 Grays Harbor	17100104	1923-30	7	None	
12036650	470702	1233917	Anderson Cr. nr Montesano, Wa.	45	2.72	22 Grays Harbor	17100104	1972-85	13	None	
12037400	470042	1233935	Wynoochee R. abv Black Cr nr Montesano, Wa.	46	155	22 Grays Harbor	17100104	1956-present	40	High	DR(1972)
12037500	470035	1233900	Wynoochee R. blw Black Cr. nr Montesano, Wa.	47	180	22 Grays Harbor	17100104	1942-50	7	High	D
12039000	471342	1235623	Humtulpils R. nr Humtulpils, Wa.	48	130	22 Grays Harbor	17100105	1933-35;1942-79	38	None	
12039220	471432	1241127	Moclips R. at Moclips, Wa.	49	35	21 Grays Harbor	17100102	1975-81	6	None	
12039300	473546	1233723	N. Fk. Quinault R nr Amanda Park, Wa.	50	74.1	21 Jefferson	17100102	1964-86	21	None	
12039500	472728	1235317	Quinault R. at Quinault Lk, Wa.	51	264	21 Grays Harbor	17100102	1911-present	81	Low	N
12039520	472717	1241858	Raft R. blw Rainy Cr. nr Queets, Wa.	52	76	21 Grays Harbor	17100102	1974-81	6	None	
12040000	473500	1241740	Clearwater R. nr Clearwater, Wa.	53	140	21 Jefferson	17100102	1932;1937-50	12	Low	O
12040500	473220	1241850	Queets R. nr Clearwater, Wa.	54	445	21 Jefferson	17100102	1930-49;1974-present	41	None	
12040700	475207	1235302	Hoh R. blw Mt. Tom Cr. nr Fk.s, Wa.	55	97.8	20 Jefferson	17100101	1985-89	4	None	
12040900	474825	1235943	S. Fk. Hoh R. nr Fk.s, Wa.	56	50	20 Jefferson	17100101	1985-89	4	None	
12041000	474825	1240620	Hoh R. nr Fk.s, Wa.	57	208	20 Jefferson	17100101	1926-64	38	Moderate	N
12041200	474825	1241459	Hoh R. at U.S. Highway 101 nr Fk.s, Wa.	58	253	20 Jefferson	17100101	1960-present	36	Low	N
12041500	480240	1235728	Soleduck R. nr Fairholm, Wa.	59	83.8	20 Clallam	17100101	1918-21;1933-71;1977-80	45	None	
12042000	480400	1240550	Soleduck R. at Snider Ranger Stn nr Beaver, Wa.	60	116	20 Clallam	17100101	1922-28	3	None	

### Appendix A. Characteristics of Modeled Gaging Stations

USGS Station No. (ddmsss)	LAT (ddmsss)	LONG (ddmsss)	Station Name	Map ID	Drainage			HUC	Period of Record (Calendar Yr.) *	Years of Data (1)	Degree of Regulation (2)	Type of Regulation (3)
					Area (mi2)	WRIA	County					
12042800	475340	1242119	Bogachiel R. nr Fk.s, Wa.	61	111	20	Clallam	17100101	1975-80	5	None	
12043000	475737	1242330	Calawah R nr Fk.s, Wa.	62	129	20	Clallam	17100101	1897-1901;1976-80;1984-present	20	None	
12043080	475910	1243245	E. Fk. Dickey R. nr La Push, Wa.	63	40	20	Clallam	17100101	1962-68	5	None	
12043100	475755	1243250	Dickey R nr La Push, Wa.	64	86.3	20	Clallam	17100101	1962-73;1977-80	15	None	
12043163	481556	1243728	Sooes R blw Miller Cr nr Ozette, Wash	65	32	20	Clallam	17100101	1976-86	10	None	
12043300	481430	1242257	Hoko R. nr Sekiu, Wa.	66	51.2	19	Clallam	17110021	1962-74;1983-present	14	None	
12043430	480949	1235633	E. Twin R. nr Pysht, Wa.	67	14	19	Clallam	17110021	1962-72	10	None	
12044000	480535	1234730	Lyre R. at Piedmont, Wa.	68	48.6	19	Clallam	17110021	1918-27	9	None	
12044900	475813	1233522	Elwha R abv Lk Mills nr Port Angeles, Wa	69	198	18	Clallam	17110020	1994-present	3	None	
12045500	480318	1233455	Elwha R. at Mcdonald Br nr Prt Angeles, Wa.	70	269	18	Clallam	17110020	1897-1901;1918-present	82	Moderate	R(1927)
12047300	480217	1232057	Morse Cr. nr Port Angeles, Wa.	71	46.6	18	Clallam	17110020	1966-76	10	Moderate	D
12047500	480500	1231652	Siebert Cr. nr Port Angeles, Wa.	72	15.5	18	Clallam	17110020	1952-69	17	None	
12048000	480052	1230753	Dungeness R. nr Sequim, Wa.	73	156	18	Clallam	17110020	1923-30;1937-present	67	None	M
12050500	475625	1225310	Snow Cr. nr Maynard, Wa.	74	11.2	17	Jefferson	17110020	1952-72	20	None	
12051500	475827	1224635	Chimacum Cr. nr Chimacum, Wa.	75	14	17	Jefferson	17110019	1952-58	5	Low	I
12052000	475015	1225310	Little Quilcene R. nr Quilcene, Wa.	76	24	17	Jefferson	17110018	1926-27;1951-58	7	Low	I
12052210	474705	1225842	Big Quilcene R blw Diversion nr Quilcene, Wa	77	49.4	17	Jefferson	17110018	1994-present	3	Moderate	D
12053000	474335	1230030	Dosewallips R. nr Brinnon, Wa.	78	93.5	16	Jefferson	17110018	1931-50	18	None	M
12054000	474103	1230037	Duckabush R. nr Brinnon, Wa.	79	66.5	16	Jefferson	17110018	1910-11;1938-present	59	None	
12054500	473518	1230657	Hamma Hamma R. nr Eldon, Wa.	80	51.3	16	Mason	17110018	1951-71	19	None	
12054600	473500	1230618	Jefferson Cr. nr Eldon, Wa.	81	21.6	16	Mason	17110018	1958-71	12	None	
12055000	473248	1230325	Hamma Hamma R. nr Hoodport, Wa.	82	84	16	Mason	17110018	1926-30	4	None	
12056500	473052	1231943	N. Fk. Skokomish R blw Strcse Rpd nr Hdsprt, Wa.	83	57.2	16	Mason	17110017	1924-present	73	None	
12057500	472524	1231316	N. Fk. Skokomish R. nr Hoodport, Wa.	84	93.7	16	Mason	17110017	1910-82	54	High	R(1925)
12058000	472456	1231336	Deer Meadow Cr. nr Hoodport, Wa.	85	1.83	16	Mason	17110017	1950-73	19	High	S(1953)
12058500	472440	1231115	Dow Cr. nr Hoodport, Wa.	86	1.7	16	Mason	17110017	1950-54	4	High	D
12059500	471940	1231430	N.F. Skokomish R. nr Potlatch, Wa.	87	117	16	Mason	17110017	1944-49;1950-present	52	High	R(1930)
12059800	472645	1232454	S.F. Skokomish R. nr Hoodport, Wa.	88	26	16	Mason	17110017	1964-70	6	None	
12060000	472310	1231830	S.F. Skokomish R. nr Potlatch, Wa.	89	65.6	16	Mason	17110017	1924-32;1946-64	26	None	
12060500	472026	1231644	S. Fk. Skokomish R. nr Union, Wa.	90	76.3	16	Mason	17110017	1931-84	55	None	
12061500	471836	1231033	Skokomish R. nr Potlatch, Wa.	91	227	16	Mason	17110017	1943-present	54	High	R(1925)
12062500	471805	1231050	Purdy Cr. nr Union, Wa.	92	3.7	16	Mason	17110017	1954-60	5	Low	A(1959)
12063000	473145	1224705	Union R. nr Bremerton, Wa.	93	3.16	15	Kitsap	17110018	1946-59	13	Moderate	O(1956)
12063500	472820	1224940	Union R. nr Belfair, Wa.	94	19.8	15	Mason	17110018	1947-59	12	Moderate	DO(1956)
12065000	472920	1225145	Mission Cr. nr Belfair, Wa.	95	4	15	Mason	17110018	1946-53	6	None	
12065500	473320	1224835	Gold Cr. nr Bremerton, Wa.	96	1.51	15	Kitsap	17110018	1946-70	24	None	
12066000	473300	1225050	Tahuya R. nr Bremerton, Wa.	97	5.99	15	Kitsap	17110018	1945-56	11	Low	DI
12067000	473150	1225130	Panther Cr. nr Bremerton, Wa.	98	1	15	Kitsap	17110018	1945-53	8	None	
12067500	472940	1225420	Tahuya R. nr Belfair, Wa.	99	15	15	Mason	17110018	1945-56	11	Low	DI
12068500	472810	1230133	Dewatto R. nr Dewatto, Wa.	100	18.4	15	Mason	17110018	1947-54;1958-74	23	None	
12069550	473827	1224702	Big Beef Cr. nr Seabeck, Wa.	101	13.8	15	Kitsap	17110018	1969-81;1983-present	14	High	R(1965)
12070000	474511	1223836	Dogfish Cr. nr Poulsbo, Wa.	102	5.08	15	Kitsap	17110019	1947-71	25	Low	I
12072000	473525	1224230	Chico Cr. nr Bremerton, Wa.	103	15.3	15	Kitsap	17110019	1947-50;1961-74	16	High	DIR
12072500	473220	1223750	Blackjack Cr. at Port Orchard, Wa.	104	14.5	15	Kitsap	17110019	1947-50	3	Low	I
12073000	472455	1223750	Burley Cr. at Burley, Wa.	105	10.7	15	Kitsap	17110019	1947-50;1960-65	8	Low	D
12073500	472322	1224152	Huge Cr. nr Wauna, Wa.	106	6.47	15	Pierce	17110019	1947-69;1977-present	42	None	
12076500	471256	1231052	Goldsborough Cr. nr Shelton, Wa.	107	39.3	14	Mason	17110019	1951-71	20	None	
12078000	470730	1230650	Skookum Cr. at Kamilche, Wa.	108	16	14	Mason	17110019	1951-59	7	Low	I
12078400	470437	1230733	Kennedy Cr. nr Kamilche, Wa.	109	17.4	14	Thurston	17110019	1960-71	11	Low	O
12079000	465108	1224003	Deschutes R. nr Rainier, Wa.	110	89.8	14	Thurston	17110016	1949-75;1980-present	37	Low	DI
12080000	470005	1225340	Deschutes R. nr Olympia, Wa.	111	160	14	Thurston	17110016	1945-54;1957-64	15	Low	DI
12080010	470043	1225407	Deschutes R at E St Bridge at Tumwater, Wa	112	162	14	Thurston	17110016	1945-54;1957-64;1990-present	22	Low	DI
12081000	470420	1224900	Woodland Cr. nr Olympia, Wa.	113	24.6	14	Thurston	17110019	1949-69;1988-90	21	High	DIO
12082500	464510	1220457	Nisqually R. nr National, Wa.	114	133	11	Lewis	17110015	1942-present	55	Low	DM
12083000	464440	1220836	Mineral Cr. nr Mineral, Wa.	115	75.2	11	Lewis	17110015	1942-present	55	None	
12083500	464440	1221220	East Cr. near Elbe, Wa.	116	11.5	11	Lewis	17110015	1918-22;1949-50	5	Low	D
12084000	464605	1221605	Nisqually R. nr Alder, Wa.	117	252	11	Lewis	17110015	1931-45	13	None	
12084500	464720	1221845	Little Nisqually R. nr Alder, Wa.	118	28	11	Thurston	17110015	1920-43	22	Low	O
12086500	465037	1221946	Nisqually R. at La Grande, Wa.	119	292	11	Pierce	17110015	1906-11;1919-31;1943-present	70	High	R(1943)
12087000	465125	1221805	Masel R. nr La Grande, Wa.	120	80.7	11	Pierce	17110015	1940-57;1991-present	22	Low	DR

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					Area (mi2)	WRIA	County					
12088000	465235	1221650	Ohop Cr. nr Eatonville, Wa.	121	34.5	11	Pierce	17110015	1927-32;1941-71;1993-present	39	Low	N
12088400	465104	1222603	Nisqually R abv Powell C nr McKenna, Wa.	122	431	11	Thurston	17110015	1969-79	10	High	R
12088500	465120	1222710	Nisqually R. nr McKenna, Wa.	123	445	11	Thurston	17110015	1941-63	21	High	R(1943)
12089000	465155	1222705	Tanwax Cr. nr McKenna, Wa.	124	26	11	Thurston	17110015	1945-50	5	None	
12089500	465601	1223333	Nisqually R. at McKenna, Wa.	125	517	11	Thurston	17110015	1947-68;1977-present	40	High	IR(1943)
12090200	470020	1223232	Muck Cr. at Roy, Wa.	126	86.8	11	Pierce	17110015	1956-72	15	Moderate	DIO
12090400	470805	1222450	N. Fk. Clover Cr. nr Parkland, Wa.	127	6.25	12	Pierce	17110019	1990-92;1994-present	4	None	
12090500	470840	1223010	Clover Cr. nr Tillicum, Wa.	128	73.8	12	Pierce	17110019	1949-54;1992-92;1994-present	10	Low	I
12091040	471128	1223137	Chambers Cr. abv Flett Cr. nr Steilacoom, Wa.	129	90.4	12	Pierce	17110019	1966-71	5	Moderate	DIR
12091070	471050	1223010	Flett Cr. blw Flett Springs at Tacoma, Wa.	130	6.72	12	Pierce	17110019	1959-65	6	High	IU
12091100	471123	1223108	Flett Cr. at Tacoma, Wa.	131	8.01	12	Pierce	17110019	1959-85;1985-present (seasonal)	27	High	IF(1979)
12091180	471329	1223032	Leach Cr. at Holding Pond, at Fircrest, Wa.	132	4.59	12	Pierce	17110019	1967-90	18	High	F(1961)S(1993)U
12091200	471318	1223029	Leach Cr. nr Fircrest, Wa.	133	4.73	12	Pierce	17110019	1957-58;1985-present	37	High	F(1961)S(1993)U
12091300	471155	1223115	Leach Cr. nr Steilacoom, Wa.	134	6.56	12	Pierce	17110019	1957-85;1992-present	33	High	F(1961)S(1993)U
12091500	471155	1223145	Chambers C blw Leach C, nr Steilacoom, Wa.	135	104	12	Pierce	17110019	1937-40;1943-65	24	Low	DO
12091700	472440	1222818	Judd Cr. nr Burton, Wa.	136	4.41	15	King	17110019	1968-75	7	Low	DI
12092000	465414	1220202	Puyallup R. nr. Electron, Wa.	137	92.8	10	Pierce	17110014	1908-33;1944-49;1957-present	69	None	M
12093000	465944	1221144	Kapowsin Cr. nr Kapowsin, Wa.	138	25.9	10	Pierce	17110014	1927-32;1942-57	21	None	
12093500	470222	1221224	Puyallup R. nr Orting, Wa.	139	172	10	Pierce	17110014	1931-present	65	Low	H
12093900	470047	1224300	Carbon R. at Fairfax, Wa.	140	76.2	11	Thurston	17110014	1911-12;1965-78	11	Low	NM
12094000	470140	1221151	Carbon R. nr Fairfax, Wa.	141	78.9	10	Pierce	17110014	1910-12;1929-78;1991-present	53	Low	NM
12094400	470530	1215705	S. Prairie Cr. nr Enumclaw, Wa.	142	22	10	Pierce	17110014	1963-68	4	None	
12095000	470823	1220528	S. Prairie Cr. at S. Prairie, Wa.	143	79.5	10	Pierce	17110014	1949-71;1987-present	32	Low	D
12096500	471105	1221346	Puyallup R. at Alderton, Wa.	144	438	10	Pierce	17110014	1914-27;1943-57	24	Low	HIS
12096600	465350	1213701	White R. nr Greenwater, Wa.	145	16.2	10	Pierce	17110014	1964-70	6	Low	NM
12097000	470848	1213845	White R. at Greenwater, Wa.	146	216	10	Pierce	17110014	1911-12;1929-75	46	Low	NM
12097500	470913	1213804	Greenwater R. at Greenwater, Wa.	147	73.5	10	Pierce	17110014	1911-12;1929-77;1980-present	52	None	M
12097850	470849	1215132	White R blw Clearwater R nr Buckley Wa.	148	375	10	Pierce	17110014	1974-76;1982-96	15	None	M
12098500	470905	1215655	White R. nr Buckley, Wa.	149	401	10	Pierce	17110014	1928-33;1938 to presert	63	Moderate	F(1942)
12099600	471034	1220102	Boise Cr. at Buckley	150	15.4	10	Pierce	17110014	1977-81;1981-present	19	High	DRS
12100000	471028	1220109	White R. at Buckley, Wa.	151	427	10	Pierce	17110014	1910-11;1977-present	20	High	H(1911)F(1942)
12100496	471558	1221343	White R. nr Auburn, Wa.	152	464	10	King	17110014	1987-89	8	High	H(1911)F(1942)
12100500	471501	1221433	White R. nr Sumner, Wa.	153	470	10	Pierce	17110014	1945-71	25	High	H(1911)F(1942)
12101500	471252	1222025	Puyallup R. at Puyallup, Wa.	154	948	10	Pierce	17110014	1914-present	82	High	H(1911)F(1942)S
12102140	471310	1222225	Clear Cr at Pioneer Wy blw Hatchery nr Tacoma, W	155	3.09	10	Pierce	17110014	1989-91;1995-present	4	Moderate	A
12103400	471244	1212513	Green R. blw Intake Cr nr Lester, Wa.	156	34.8	9	King	17110013	1966-77	10	None	M
12103500	471510	1212411	Snow Cr. nr Lester, Wa.	157	11.5	9	King	17110013	1945-65	19	None	M
12104000	471317	1212723	Friday Cr. nr Lester, Wa.	158	4.67	9	King	17110013	1945-77	31	Low	DM
12104500	471228	1213307	Green R. nr Lester, Wa.	159	96.2	9	King	17110013	1946-90;1993	45	None	M
12104700	471308	1213428	Green Canyon Cr. nr Lester, Wa.	160	3.23	9	King	17110013	1960-70	10	None	
12105000	471543	1213352	Smay Cr. nr Lester, Wa.	161	8.56	9	King	17110013	1947-70	23	None	M
12105500	471500	1214700	Charley Cr. nr Eagle Gorge, Wa.	162	11	9	King	17110013	1947-55	8	None	
12105700	471830	1214620	N. Fk. Green R. nr Palmer, Wa.	163	17	9	King	17110013	1957-65	7	None	
12105710	471835	1214620	N. Fk. Green R. nr Lemolo, Wa.	164	16.7	9	King	17110013	1965-87	22	High	N
12105900	471702	1214748	Green R. blw Howard A. Hanson Reservoir, Wa.	165	221	9	King	17110013	1960-present	36	High	FL(1961)
12106000	471700	1214810	Bear Cr. nr Eagle Gorge, Wa.	166	4	9	King	17110013	1947-56	8	None	
12106500	471740	1214920	Green R. nr Palmer, Wa.	167	230	9	King	17110013	1931-63	30	None	
12106700	471819	1215058	Green R. at Purification Plant, nr Palmer, Wa.	168	231	9	King	17110013	1963-present	34	High	DFL(1961)
12107300	471640	1215825	Icy Cr. nr Black Diamond, Wa.	169	3.29	9	King	17110013	1963-68	4	None	
12107500	471700	1220310	Green R. nr Black Diamond, Wa.	170	285	9	King	17110013	1939-48	8	High	D
12108500	471633	1220330	Newaukum Cr. nr Black Diamond, Wa.	171	27.4	9	King	17110013	1944-50;1952-present	51	Moderate	DI
12111500	472010	1220240	Covington Cr. nr Black Diamond, Wa.	172	13	9	King	17110013	1953-60	6	Moderate	DO
12112500	471900	1220838	Big Soos Cr. nr Auburn, Wa.	173	59.2	9	King	17110013	1944-56	9	Moderate	DS
12112600	471835	1221005	Big Soos Cr. abv Hatchery, nr. Auburn, Wa.	174	66.7	9	King	17110013	1960-present	37	Low	A(ended 1966)S
12113000	471805	1221025	Green R. nr Auburn, Wa.	175	399	9	King	17110013	1936-present	61	High	F(1961)L(1961)D
12113350	472755	1221450	Green R. at Tukwila, Wa.	176	440	9	King	17110013	1960-84	25	High	F(1961)L(1961)D
12113500	471910	1213005	N. Fk. Cedar R. nr Lester, Wa.	177	9.3	8	King	17110012	1944-63	18	None	M
12114000	471830	1213100	S. Fk. Cedar R. nr Lester, Wa.	178	6	8	King	17110012	1944-83	38	None	M
12114500	472032	1213252	Cedar R. blw Bear Cr., nr Cedar Falls, Wa.	179	25.4	8	King	17110012	1945-63;1975-present	39	None	M
12115000	472213	1213726	Cedar R. nr Cedar Falls, Wa.	180	40.7	8	King	17110012	1945-present	51	None	M

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					Area (mi2)	WRIA	County					
12115500	472103	1213943	Rex R. nr Cedar Falls, Wa.	181	13.4	8	King	17110012	1945-present	51	None	
12115700	472159	1214130	Boulder Cr nr Cedar Falls, Wa	182	4.64	8	King	17110012	1983-present	14	None	
12116500	472502	1214727	Cedar R. at Cedar Falls, Wa.	183	84.2	8	King	17110012	1914-present	83	High	R(1904)
12116700	472115	1214730	Middle Fk. Taylor Cr. nr Selleck, Wa.	184	5.17	8	King	17110012	1956-64	7	None	
12116800	472220	1214820	N. Fk. Taylor Cr. nr Selleck, Wa.	185	3.77	8	King	17110012	1956-64	7	None	
12117000	472312	1215042	Taylor Cr. nr Selleck, Wa.	186	17.2	8	King	17110012	1945;1956-present	41	None	
12117500	472338	1215712	Cedar R. nr Landsburg, Wa.	187	121	8	King	17110012	1895-present	98	High	R(1904)
12118400	472145	1220035	Rock Cr. at State Hwy 5A nr Ravensdale, Wa.	188	11.2	8	King	17110013	1956-62	6	Moderate	D
12118500	472248	1220058	Rock Cr. nr Maple Valley, Wa.	189	12.6	8	King	17110012	1945-73	28	High	D
12119000	472858	1221208	Cedar R. at Renton, Wa.	190	184	8	King	17110012	1901-03;1906-07;1945-present	52	High	R(1904)D
12119500	473125	1221145	May Cr. nr Renton, Wa.	191	12.5	8	King	17110012	1945-50;1955-58;1964	9	Low	DI
12119600	473148	1221200	May Cr. at Mouth, nr Renton, Wa.	192	12.7	8	King	17110012	1964-72;1978-79	7	Low	D
12119700	473400	1221045	Coal Cr. nr Bellevue, Wa.	193	6.8	8	King	17110012	1964-68	4	Low	O
12120000	473611	1221047	Mercer Cr. nr Bellevue, Wa.	194	12	8	King	17110012	1945;1955-present	42	Moderate	FU
12120500	474227	1221251	Juanita Cr. nr Kirkland, Wa.	195	6.69	8	King	17110012	1945;1963-90	24	Low	D
12120600	472727	1220014	Issaquah Cr nr Hobart, Wa	196	17.6	8	King	17110012	1986-present	10	None	
12121000	472855	1220210	Issaquah Cr. nr Issaquah, Wa.	197	27	8	King	17110012	1945-64	19	Low	DI
12121510	473208	1220211	E. Fk. Issaquah Cr. at Mouth at Issaquah, Wa.	198	9.5	8	King	17110012	1975-81	5	Low	DIS
12121600	473309	1220248	Issaquah Cr. nr Mouth, nr Issaquah, Wa.	199	56.6	8	King	17110012	1963-present	33	Low	DI
12121700	473230	1220347	Tibbetts Cr. nr Issaquah, Wa.	200	3.9	8	King	17110012	1963-68;1971-76	8	Moderate	D
12122500	474300	1220430	Bear Cr nr Redmond Wash	201	13.9	8	King	17110012	1945-49;1979-96	13	None	
12123000	474415	1220445	Cottage Lk Cr nr Redmond, Wa.	202	10.7	8	King	17110012	1945;1955-65	10	Moderate	DIN
12124000	474032	1220448	Evans Cr. (Abv Mouth) nr Redmond, Wa.	203	13	8	King	17110012	1955-76;1985-86	21	Low	DI
12124500	474010	1220630	Bear Cr. at Redmond, Wa.	204	48.2	8	King	17110012	1945-50;1955-58;1984-86	10	Low	ADI
12125000	474010	1220750	Sammamish R. nr Redmond, Wa.	205	150	8	King	17110012	1939-57	17	Low	DI
12125200	474215	1220829	Sammamish R. nr Woodinville, Wa.	206	157	8	King	17110012	1965-present	32	Moderate	DIN
12125500	474525	1220950	Bear Cr. at Woodinville, Wa.	207	15.3	8	King	17110012	1945;1965-69	3	Low	D
12126000	474730	1221147	N. Cr. nr Bothell, Wa.	208	24.6	8	King	17110012	1945-73	27	Low	DI
12126500	474503	1221209	Sammamish R. at Bothell, Wa.	209	212	8	King	17110012	1940-63;1983-87	27	Low	DI
12127100	474522	1221357	Swamp Cr. at Kenmore, Wa.	210	23.1	8	King	17110012	1963-90	23	Low	I
12127300	474511	1221635	Lyon Cr. at Lk Forest Park, Wa.	211	3.67	8	King	17110012	1963-68	5	Low	D
12127600	474507	1221648	McAleer Cr. at Lk Forest Park, Wa.	212	7.8	8	King	17110012	1963-72	9	Moderate	DN
12128000	474145	1221630	Thorton Cr. nr Seattle, Wa.	213	12.1	8	King	17110012	1945-46;1961-68	9	Moderate	U
12130500	474220	1211830	S. F. Skykomish R. nr Skykomish, Wa.	214	135	7	King	17110009	1930-31;1946-50	6	None	M
12131000	474420	1211910	Beckler R. nr Skykomish, Wa.	215	96.5	7	King	17110009	1929-33;1946-49	6	None	M
12132000	474230	1212350	Miller R. (Cr.) at (nr) Miller R., Wa.	216	45.6	7	King	17110009	1911-19;1929-31;1946	7	None	M
12133000	474820	1213244	S.F. Skykomish R. nr Index, Wa.	217	355	7	Snohomish	17110009	1903-05;1911-82	71	Low	DM
12133500	475400	1212340	Troublesome Cr. nr Index, Wa.	218	10.6	7	Snohomish	17110009	1929-41	12	None	M
12134000	474910	1213310	N. Fk. Skykomish R. at Index, Wa.	219	146	7	Snohomish	17110009	1911-22;1928-38;1946-48	21	None	M
12134500	475015	1213956	Skykomish R. nr Gold Bar, Wa.	220	535	7	Snohomish	17110009	1928-present	69	Low	DM
12135000	475150	1214147	Wallace R. at Gold Bar, Wa.	221	19	7	Snohomish	17110009	1928-33;1946-78;1980-present	37	Moderate	N
12135500	475640	1214230	Olney Cr. nr Gold Bar, Wa.	222	8.31	7	Snohomish	17110009	1946-50	4	None	
12136000	475535	1214310	Olney Cr. nr Startup, Wa.	223	10.3	7	Snohomish	17110009	1923-26;1929-34	7	None	
12136500	475130	1213630	May Cr. nr Gold Bar, Wa.	224	3.8	7	Snohomish	17110009	1928-35;1946-47	7	None	M
12137200	475814	1213312	Elk Cr. nr Sultan, Wa.	225	11.4	7	Snohomish	17110009	1977-83	6	None	M
12137260	475909	1213600	Williamson Cr. nr Sultan, Wa.	226	15.6	7	Snohomish	17110009	1977-83	6	None	
12137290	475651	1213732	S. Fk. Sultan R nr Sultan, Wa	227	11.6	7	Snohomish	17110009	1991-present	7	None	
12137500	475827	1214647	Sultan R. nr Startup, Wa.	228	74.5	7	Snohomish	17110009	1934-71	36	High	R(1965)
12137800	475734	1214746	Sultan R blw Diversion Dam nr Sultan, Wa	229	77.1	7	Snohomish	17110009	1983-present	14	High	DR(1965)H(1984)
12138000	475540	1214750	Sultan R. nr Sultan, Wa.	230	86.6	7	Snohomish	17110009	1911-27;1929-31	16	Moderate	D
12138150	475452	1214836	Sultan R. blw Chaplain Cr. nr Sultan, Wa.	231	92.6	7	Snohomish	17110009	1975-84	9	High	R(1966)D
12138160	475427	1214851	Sultan R blw Powerplant nr Sultan, Wa	232	94.2	7	Snohomish	17110009	1983-present	14	High	DR(1965)H(1984)
12138500	474950	1214940	Mccooy Cr. nr Sultan, Wa.	233	6.17	7	Snohomish	17110009	1946-50	4	None	
12141000	475208	1215531	Woods Cr. nr Monroe, Wa.	234	56.4	7	Snohomish	17110009	1946-71	25	Low	DI
12141300	472910	1213848	Middle Fk. Snoqualmie R. nr Tanner, Wa.	235	154	7	King	17110010	1961-present	36	None	M
12141500	472920	1214535	Middle Fk. Snoqualmie R nr N. Bend, Wa.	236	169	7	King	17110010	1907-26;1929-32;1945	18	None	M
12142000	473654	1214244	N.F. Snoqualmie R. nr Snoqualmie Falls, Wa.	237	64	7	King	17110010	1929-49;1961-present	55	None	
12142200	473605	1214120	Calligan Cr. nr Snoqualmie, Wa.	238	7.31	7	King	17110010	1964-70	5	Moderate	NM
12142300	473421	1214112	Hancock Cr. nr Snoqualmie, Wa.	239	7.67	7	King	17110010	1964-71	6	Moderate	NM
12143000	473215	1214426	N.F. Snoqualmie R. nr N. Bend, Wa.	240	95.7	7	King	17110010	1907-26;1929-38;1961-71	34	None	

**Appendix A. Characteristics of Modeled Gaging Stations**

USGS Station No.	LAT (ddmss)	LONG (ddmss)	Station Name	Map ID	Drainage				Period of Record (Calendar Yr.) *	Years of Data (1)	Degree of Regulation (2)	Type of Regulation (3)
					Area (mi <sup>2</sup> )	WRIA	County	HUC				
12143400	472450	1213510	S. Fk. Snoqualmie R. abv Alice Cr nr Garcia, Wa.	241	41.6	7	King	17110010	1960-present	36	None	M
12143500	472500	1213520	S. Fk. Snoqualmie R. nr Garcia, Wa.	242	45.8	7	King	17110010	1910-15	5	None	M
12143600	472710	1214310	SF Snoqualmie E at Edgewick Wash	243	65.9	7	King	17110010	1962-65;1983-present	16	Low	HM
12143700	472558	1214504	Boxley Cr. nr Cedar Falls, Wa.	244	1.57	7	King	17110012	1945-present	52	None	M
12143900	472656	1214350	Boxley Cr. nr Edgewick, Wa.	245	3.64	7	King	17110010	1981-present	16	Low	D
12144000	472918	1214703	S. Fk. Snoqualmie R. at N. Bend, Wa.	246	81.7	7	King	17110010	1907-26;1929-38;1945-50;1960-74;1984-present	55	Low	HD
12144500	473243	1215028	Snoqualmie R. nr Snoqualmie, Wa.	247	375	7	King	17110010	1898-99;1900;1902-05;1907-32;1958-present	41	Moderate	H
12145000	473320	1215015	Tokul Cr. nr Snoqualmie, Wa.	248	32.2	7	King	17110010	1907-15;1929-31;1945	8	Low	D
12145500	473224	1215428	Raging R. nr Fall City, Wa.	249	30.6	7	King	17110010	1945-50;1963-present	36	Low	DI
12146000	473452	1215623	Patterson Cr. nr Fall City, Wa.	250	15.5	7	King	17110010	1947-50;1955-71	19	Moderate	DI
12147000	473658	1215415	Griffin Cr. nr Carnation, Wa.	251	17.1	7	King	17110010	1945-70	25	Low	DI
12147500	474245	1214715	N. Fk. Tolt R. nr Carnation, Wa.	252	39.9	7	King	17110010	1952-63;1967-present	39	None	
12147600	474225	1213556	S. Fk. Tolt R. nr Index, Wa.	253	5.34	7	King	17110010	1959-63;1967-present	32	None	
12148000	474122	1214244	S. Fk. Tolt R. nr Carnation, Wa.	254	19.7	7	King	17110010	1952-63;1969-present	38	High	R(1963)D
12148500	474145	1214922	Tolt R. nr Carnation, Wa.	255	81.4	7	King	17110010	1928-32;1937-present	63	High	R(1963)D
12148700	474145	1214950	Stossel Cr. nr Carnation, Wa.	256	5.58	7	King	17110010	1957-63	6	None	
12149000	473958	1215527	Snoqualmie R. nr Carnation, Wa.	257	603	7	King	17110010	1928-present	68	Moderate	DHI
12150500	474440	1215635	Cherry Cr. nr Duvall, Wa.	258	19.2	7	King	17110010	1945-49;1961-64	6	Low	N
12150800	474952	1220250	Snohomish R. nr Monroe, Wa.	259	1537	7	Snohomish	17110011	1963-present	34	Moderate	DHI
12152500	480315	1215725	Pilchuck R. nr Granite Falls, Wa.	260	54.5	7	Snohomish	17110011	1911;1943-58	14	Low	D
12153000	480200	1220304	Little Pilchuck C nr Lk Stevens, Wa.	261	17	7	Snohomish	17110011	1946-70	22	Low	DI
12154000	480100	1220310	Stevens Cr. at Lk Stevens, Wa.	262	15.3	7	Snohomish	17110011	1946-50	4	Low	I
12154500	475825	1220140	Dubque Cr. nr Lk Stevens, Wa.	263	7.16	7	Snohomish	17110011	1946-50	4	None	
12155300	475606	1220419	Pilchuck R nr Snohomish, Wa	264	127	7	Snohomish	17110011	1992-present	5	None	
12157000	480620	1220940	Quilceda Cr. nr Marysville, Wa.	265	15.4	7	Snohomish	17110011	1946-69;1975-77	23	Moderate	DIO
12159500	480400	1213620	S. Fk. Stillaguamish R. nr Silverton, Wa.	266	43.7	5	Snohomish	17110006	1910-18	4	None	M
12161000	480612	1215707	S.Fk. Stillaguamish R. nr Granite Falls, Wa.	267	119	5	Snohomish	17110008	1902-03;1928-80	52	Low	D
12162500	481005	1220405	S.Fk. Stillaguamish R abv Jim Cr nr Arlngtn, Wa.	268	199	5	Snohomish	17110008	1937-58	20	Low	DI
12164000	481025	1220405	Jim Cr. nr Arlington, Wa.	269	46.2	5	Snohomish	17110008	1938-57	17	Low	DI
12164500	481140	1220545	S. Fk. Stillaguamish R. nr Arlington, Wa.	270	251	5	Snohomish	17110008	1929-37	7	None	
12165000	481615	1214000	Squire Cr. nr Darrington, Wa.	271	20	5	Snohomish	17110008	1950-69	19	None	M
12165500	481648	1214204	N. Fk. Stillaguamish R. nr Darrington, Wa.	272	82.2	5	Snohomish	17110008	1951-57	7	None	
12166500	481700	1215545	Deer Cr. at Oso, Wa.	273	65.9	5	Snohomish	17110008	1917-30;1950	13	None	
12167000	481542	1220247	N.F. Stillaguamish R. nr Arlington, Wa.	274	262	5	Snohomish	17110008	1928-present	69	Low	D
12167500	481315	1220800	Armstrong Cr. nr Arlington, Wa.	275	7.33	5	Snohomish	17110008	1951-58	6	Low	N
12168500	481558	1220946	Pilchuck Cr. nr Bryant, Wa.	276	52	5	Snohomish	17110008	1929-31;1950-75;1980-present	26	None	
12169500	481035	1221325	Fish Cr. nr Arlington, Wa.	277	7.52	5	Snohomish	17110008	1950-54	3	Low	DI
12171000	485330	1205850	Lightening Cr. nr Newhalem, Wa.	278	129	4	Whatcom	17110005	1944-48	3	None	M
12171500	485030	1210220	Skagit R. abv Devils Cr. nr Newhalem, Wa.	279	655	4	Whatcom	17110005	1940-45	5	None	M
12172000	484640	1210420	Big Beaver Cr. nr Newhalem, Wa.	280	63.2	4	Whatcom	17110005	1940-48;1963-69	14	None	M
12172500	484450	1210150	Skagit R. nr Newhalem, Wa.	281	765	4	Whatcom	17110005	1929-40	9	None	M
12173500	484230	1205810	Ruby C. blw Panther C, nr Newhalem, Wa.	282	206	4	Whatcom	17110005	1948-56;1963-69	14	None	M
12174000	484320	1210030	Ruby Cr. nr Newhalem, Wa.	283	210	4	Whatcom	17110005	1919-20;1928-49	20	None	M
12174500	484420	1210340	Skagit R blw Ruby C, nr Newhalem, Wa.	284	999	4	Whatcom	17110005	1919-30	11	None	M
12175500	484022	1210418	Thunder Cr. nr. Newhalem, Wa.	285	105	4	Whatcom	17110005	1930-present	66	Low	NM
12176000	484230	1210600	Thunder Cr. nr Marblemount, Wa.	286	114	4	Whatcom	17110005	1919-30	11	None	M
12177000	484250	1210830	Skagit R at Reflector Bar, nr Newhalem, Wa.	287	1125	4	Whatcom	17110005	1909-22	8	None	M
12177500	484320	1210858	Stettatle Cr. nr Newhalem, Wa.	288	22	4	Whatcom	17110005	1914-15;1933-83	50	None	M
12178000	484019	1211442	Skagit R. at Newhalem, Wa.	289	1175	4	Whatcom	17110005	1908-14;1920-present	81	High	H(1924)R(1929)
12178100	483922	1211414	Newhalem Cr. nr. Newhalem, Wa.	290	27.9	4	Whatcom	17110005	1961-present	36	None	M
12179000	483627	1212137	Skagit R. abv Alma Cr. nr Marblemount, Wa.	291	1274	4	Skagit	17110005	1951-95	44	High	R(1960)
12179800	483510	1212311	Skagit R. abv Bacon Cr. nr Marblemount, Wa.	292	1289	4	Skagit	17110005	1977-83	6	High	R(1929)
12180000	483520	1212340	Bacon Cr. nr Marblemount, Wa.	293	50.9	4	Skagit	17110005	1943-50	7	None	M
12181000	483202	1212543	Skagit R. at Marblemount, Wa.	294	1381	4	Skagit	17110005	1943-44;1946-51;1976-present	26	High	R(1940)
12181100	482213	1210423	S.F. Cascade R at S. Cascade Gl nr Mblmnt, Wa.	295	2.36	4	Skagit	17110005	1962-93	29	None	M
12181200	482216	1210435	Salix Cr at S. Cascade Gl nr Marblemount, Wa.	296	0.08	4	Skagit	17110005	1965-93	19	None	M
12182500	483137	1212450	Cascade R. at Marblemount, Wa.	297	172	4	Skagit	17110005	1929-79	50	None	M
12185300	480120	1212119	Elliott Cr at Goat Lk Outlet nr Monte Cristo, Wa	298	3.03	4	Snohomish	17110006	1982-93	10	None	M
12185500	480345	1212420	S. Fk. Sauk R. nr Barlow Pass, Wa.	299	33	4	Snohomish	17110006	1918-21;1929-31	5	None	M
12186000	481008	1212810	Sauk R abv Whitechuck R nr Darrington, Wa.	300	152	4	Snohomish	17110006	1917-22;1928-present	72	None	M

**Appendix A. Characteristics of Modeled Gaging Stations**

USGS Station No.	LAT (ddmmss)	LONG (ddmmss)	Station Name	Map ID	Drainage Area (mi2)	WRIA	County	HUC	Period of Record (Calendar Yr.) *	Years of Data (1)	Degree of Regulation (2)	Type of Regulation (3)
12187500	481500	1213500	Sauk R. at Darrington, Wa.	301	293	4	Snohomish	17110006	1914-26;1928-32	16	Low	DM
12188400	482032	1212708	Suiattle R. abv Big Cr. nr Darrington, Wa.	302	307	4	Skagit	17110006	1971-80	8	Low	NM
12189000	482150	1212930	Suiattle R. near Mansford, Wa.	303	335	4	Skagit	17110006	1938-50	11	None	
12189500	482529	1213402	Sauk R. near Sauk, Wa.	304	714	4	Skagit	17110006	1911-12;1928-present	69	Moderate	DNM
12190000	483125	1214245	Jackman Cr. near Concrete, Wa.	305	23.9	4	Skagit	17110005	1943-47	4	None	M
12190710	484407	1213926	Swift Cr. near Concrete, Wa.	306	36.35	4	Whatcom	17110005	1982-90	8	None	M
12190718	484436	1214123	Park Cr. at upper bridge nr Concrete, Wa.	307	10.5	4	Whatcom	17110005	1982-90	8	None	M
12191500	483950	1214025	Baker R blw Anderson C, nr Concrete, Wa.	308	211	4	Whatcom	17110005	1911-25;1928-32;1955-59	21	None	M
12191800	484040	1214500	Sulphur Cr. nr Concrete, Wa.	309	8.36	4	Whatcom	17110005	1963-74;1981-82	11	None	M
12192600	483711	1214409	Bear Cr. blw Tributaries nr Concrete, Wa.	310	14.4	4	Skagit	17110005	1982-86	4	None	
12193500	483224	1214431	Baker R. at Concrete, Wa.	311	297	4	Skagit	17110005	1910-15;1943-present	57	High	R(1916)
12194000	483130	1214613	Skagit R. nr Concrete, Wa.	312	2737	4	Skagit	17110007	1924-present	72	High	R(1916)
12194500	483035	1214845	Finney Cr. nr Concrete, Wa.	313	51.6	4	Skagit	17110007	1943-48	4	Low	
12196000	483142	1215658	Alder Cr. nr Hamilton, Wa.	314	10.7	3	Skagit	17110007	1943-71	28	None	
12196200	482431	1215847	Day Cr. blw Day Lk, nr Lyman, Wa.	315	6.56	3	Skagit	17110007	1963-71	8	None	
12196400	482910	1220157	Day Cr. nr Hamilton, Wa.	316	32.3	3	Skagit	17110007	1962-69	6	None	
12196500	483005	1220245	Day Cr. nr Lyman, Wa.	317	34.2	3	Skagit	17110007	1943-61	18	None	
12197040	483138	1220619	Tank Cr. nr Lyman, Wa.	318	2.5	3	Skagit	17110007	1974-80	5	None	
12197110	483115	1220600	Minkler Cr. nr Lyman, Wa.	319	5	3	Skagit	17110007	1974-80	5	Low	N
12197680	483234	1220650	Black Cr. nr Minkler, Wa.	320	5	3	Skagit	17110007	1975-80	4	None	
12197700	483149	1220808	Wiseman Cr. nr Lyman, Wa.	321	3	3	Skagit	17110007	1974-83	8	None	
12199000	482903	1221431	Skagit R. nr Sedro Woolley, Wa.	322	3015	3	Skagit	17110007	1908-24;1975-80	17	High	DR(1929)
12199800	482450	1220925	E. Fk. Nookachamps Cr. nr Big Lk, Wa.	323	3.56	3	Skagit	17110007	1962-71	9	None	
12200000	482530	1221230	E. Fk. Nookachamps Cr. nr Clear Lk, Wa.	324	20.5	3	Skagit	17110007	1943-50;1962-63	8	Low	DI
12200500	482642	1222003	Skagit R. nr Mount Vernon, Wa.	325	3093	3	Skagit	17110007	1940-present	56	High	DR(1916)
12201000	483420	1222015	Friday Cr. nr Burlington, Wa.	326	37.1	3	Skagit	17110002	1943-49	4	Low	O
12201500	483246	1222013	Samish R. nr Burlington, Wa.	327	87.8	3	Skagit	17110002	1943-71	29	Low	AI
12203000	484514	1222535	Whatcom Cr. nr Bellingham, Wa.	328	55.4	1	Whatcom	17110002	1911-12;1939-46;1974-76	8	High	ADO
12203500	484506	1222542	Whatcom Cr blw Hatchery nr Bellingham, Wa.	329	56.1	1	Whatcom	17110002	1946-57;1968-69	11	High	R
12205000	485422	1215035	N.F. Nooksack R blw Cascade Cr nr Glacier, Wa.	330	105	1	Whatcom	17110004	1937-present	59	Low	NHM
12205500	485415	1215930	Nooksack (N. Fk.) R. nr Glacier, Wa.	331	195	1	Whatcom	17110004	1911;1934-38	4	Low	HM
12207200	485224	1220856	N.F. Nooksack R. nr Deming, Wa.	332	282	1	Whatcom	17110004	1964-75	11	Low	HM
12208000	484643	1220620	M.F. Nooksack R. nr Deming, Wa.	333	73.3	1	Whatcom	17110004	1910-11;1920-21;1934-35;1954-55;1965-70;1995-96	11	High	D(1962)M
12209000	483952	1220756	S.F. Nooksack R. nr Wickersham, Wa.	334	103	1	Whatcom	17110004	1933-78;1980-96	45	None	
12209500	484020	1220824	Skookum Cr. nr Wickersham, Wa.	335	23.1	1	Whatcom	17110004	1948-69	21	None	
12210500	484838	1221213	Nooksack R. at Deming, Wa.	336	584	1	Whatcom	17110004	1935-57;1964-present	55	Moderate	D(1962)HN
12211500	485514	1222904	Nooksack R. nr Lynden, Wa.	337	648	1	Whatcom	17110004	1945-67	22	Low	HM
12212000	485752	1222550	Fishtrap Cr. at Lynden, Wa.	338	22.3	1	Whatcom	17110004	1948-71	23	Moderate	DIO
12213100	485042	1223517	Nooksack R. at Ferndale, Wa.	339	786	1	Whatcom	17110004	1966-present	29	Moderate	D(1962)H
12214000	485725	1223930	Dakota Cr. nr Blaine, Wa.	340	18.4	1	Whatcom	17110002	1948-55	5	Low	DN
12323000	491040	1174259	Columbia R. at Birchbank, B.C.	341	34000	61	NA	17110001	1913-present	14	High	RI
12395500	481100	1170200	Pend Oreille R. at Newport, Id.	342	24200	62	Pend Oreille	17010216	1903-41;1952-present	60	High	RI
12396000	481440	1172026	Calspell Cr. nr Dalkena, Wa.	343	68.3	62	Pend Oreille	17010216	1950-73	23	Moderate	R(1956)M
12396500	484649	1172442	Pend Oreille R blw Box Canyon nr Lone, Wa.	344	24900	62	Pend Oreille	17010216	1952-present	44	High	RI
12396900	485047	1171709	Sullivan C abv Outlet C nr Metaline Falls, Wa.	345	70.2	62	Pend Oreille	17010216	1959-72;1994-present	16	None	M
12397100	485042	1171712	Outlet Cr. nr Metaline Falls, Wa.	346	51.5	62	Pend Oreille	17010216	1959-present	38	High	R
12397500	485110	1171720	Sullivan Cr. nr Metaline Falls, Wa.	347	122	62	Pend Oreille	17010216	1912-25	11	High	HR
12398000	485140	1172150	Sullivan Cr. at Metaline Falls, Wa.	348	142	62	Pend Oreille	17010216	1954-68;1994-present	17	Moderate	DR(1933)
12398500	485850	1172040	Pend Oreille R B Z Cynr nr Metaline Flls, Wa.	349	25200	62	Pend Oreille	17010216	1909-10;1913-64	51	High	IR
12398600	485956	1172109	Pend Oreille R. at International Boundary	350	25200	62	Pend Oreille	17010216	1964-97	33	High	R(1938)
12399500	485500	1174715	Columbia R. at International Boundary	351	59700	61	Stevens	17020001	1937-present	59	High	RI
12400500	485640	1174650	Sheep Cr. nr Northport, Wa.	352	225	61	Stevens	17020001	1929-42	13	Low	OM
12401500	485853	1184555	Kettle R. nr Ferry, Wa.	353	2220	60	Ferry	17020002	1928-present	68	Moderate	IM
12404500	485904	1181255	Kettle R. nr Laurier, Wa.	354	3800	60	Ferry	17020002	1929-present	68	Moderate	IM
12405500	483720	1180700	Columbia R. at Kettle Falls, Wa.	355	64500	61	Stevens	17020001	1913-41	19	High	IR
12407000	480335	1173910	Sheep Cr. at Loon Lk, Wa.	356	37.9	59	Stevens	17020003	1950-59	7	High	IOM
12407500	480328	1174504	Sheep Cr. at Springdale, Wa.	357	48.2	59	Stevens	17020003	1953-72	19	Moderate	DIO
12407520	480706	1174752	Deer Cr. nr Valley, Wa.	358	36	59	Stevens	17020003	1959-72	13	Low	IM
12407700	481700	1174250	Chewelah Cr. at Chewelah, Wa.	359	94.1	59	Stevens	17020003	1957-74	17	Moderate	IM
12408000	481910	1174910	Colville R. at Blue Cr., Wa.	360	428	59	Stevens	17020001	1923-24;1960-66;1979	6	Low	IM

### Appendix A. Characteristics of Modeled Gaging Stations

USGS Station No.	LAT (ddmsss)	LONG (ddmsss)	Station Name	Map					Period of Record (Calendar Yr.) *	Years of Data (1)	Degree of Regulation (2)	Type of Regulation (3)
				ID	Drainage Area (mi2)	WRIA	County	HUC				
12408300	482758	1174453	Little Pend Oreille R. nr Colville, Wa.	361	132	59	Stevens	17020003	1958-75	17	Low	OM
12408420	482802	1175424	Haller C nr Arden, Wa.	362	37	59	Stevens	17020003	1959-70	11	Low	DIM
12408500	483444	1175156	Mill Cr. nr Colville, Wa.	363	83	59	Stevens	17020003	1939-72;1977-86	41	Low	IM
12408700	483425	1175635	Mill Cr. at Mouth nr Cblville, Wa.	364	146	59	Stevens	17020003	1959-65	6	Low	IM
12409000	483540	1180341	Colville R. at Kettle Falls, Wa.	365	1007	59	Stevens	17020003	1922-present	73	High	HI
12409500	481841	1181239	Hall Cr. at Inchelium, Wa.	366	161	58	Ferry	17020001	1913-29;1972-73	9	Low	DM
12410000	481540	1181700	Stranger Cr. at Meteor, Wa.	367	50.9	58	Ferry	17020001	1916-29	5	High	INM
12419000	474211	1165837	Spokane R. nr Post Falls, Id.	368	3840	57	Kootenai	17010305	1912-present	80	High	R
12419500	474055	1170509	Spokane R. abv Liberty Brg nr Otis Orchard, Wa.	369	3880	57	Spokane	17010305	1929-83	47	High	HIR
12421500	474150	1171435	Spokane R. blw Trent Bridge nr Spokane, Wa.	370	4200	57	Spokane	17010305	1948-54	6	Moderate	HI
12422500	473934	1172653	Spokane R. at Spokane, Wa.	371	4290	57	Spokane	17010305	1891-present	106	Moderate	HI
12424000	473910	1172655	Hangman Cr. at Spokane, Wa.	372	689	56	Spokane	17010306	1948-present	48	Low	I
12427000	480120	1171619	Little Spokane R. at Elk, Wa.	373	115	55	Spokane	17010308	1948-71	23	Low	I
12431000	474705	1172412	Little Spokane R. at Dartford, Wa.	374	665	55	Spokane	17010308	1929-32;1946-present	53	Low	IM
12431500	474650	1172945	Little Spokane R. nr Dartford, Wa.	375	698	55	Spokane	17010308	1948-52	3	Low	DIM
12433000	475018	1175105	Spokane R. at Long Lk, Wa.	376	6020	54	Lincoln	17010307	1939-present	58	Moderate	HI
12433100	475944	1174328	Chamokane Cr. nr Springdale, Wa.	377	99.9	54	Stevens	17010307	1973-78	5	Moderate	DIM
12433200	475149	1175126	Chamokane Cr. blw Falls nr Long Lk, Wa.	378	179	54	Stevens	17010307	1971-78;1984-present	17	Moderate	ADIM
12433500	474930	1175625	Spokane R. blw Little Falls nr Long Lk, Wa.	379	6220	54	Lincoln	17010307	1913-40	21	High	HIR
12433561	475349	1180805	Blue Cr nr Mouth nr Wellpinit, Wa.	380	19.1	54	Stevens	17010307	1984-present	13	Moderate	DOM
12434500	480628	1184151	Sanpoil R. nr Keller, Wa.	381	880	52	Ferry	17020004	1952-55;1972-74	4	Moderate	ISM
12436500	475756	1185854	Columbia R. at Grand Coulee, Wa.	382	74700	42	Douglas	17020005	1928-present	68	High	RI
12437500	481035	1185852	Nespelem R. at Nespelem, Wa.	383	122	51	Okanogan	17020005	1911-29	8	Moderate	I(1921)M
12438000	480024	1193951	Columbia R. at Bridgeport, Wa.	384	75700	50	Douglas	17020005	1952-present	45	High	RI
12438700	490723	1193419	Okanogan R. nr Oliver, B.C.	385	2930	NA	NA		1961-present	34	High	RI
12439300	485635	1192445	Tonasket Cr. at Oroville, Wa.	386	60.1	49	Okanogan	17020006	1967-91	24	Moderate	IM
12439500	485551	1192509	Okanogan R. at Oroville, Wa.	387	3195	49	Okanogan	17020006	1942-present	54	High	RNI
12442000	485001	1194132	Toats Coulee Cr. nr Loomis, Wa.	388	130	49	Okanogan	17020007	1920-26;1957-70	12	None	M
12442300	485110	1193850	Simlehkin Cr. abv Chopaka Cr. nr Loomis, Wa.	389	256	49	Okanogan	17020007	1957-66	8	High	IM
12442500	485905	1193702	Similkameen R. nr Nighthawk, Wa.	390	3550	49	Okanogan	17020007	1911-present	68	Moderate	NIM
12443500	485740	1193000	Similkameen R. nr Oroville, Wa.	391	3580	49	Okanogan	17020007	1911-28	17	Moderate	HIN
12444100	484705	1192600	Whitestone Cr. nr Tonasket, Wa.	392	55.4	49	Okanogan	17020006	1959-72	13	High	IOS
12444490	483926	1191202	Bonaparte Cr. nr Wauconda, Wa.	393	96.6	49	Okanogan	17020006	1968-73	4	Moderate	IOM
12445000	483757	1192738	Okanogan R. nr Tonasket, Wa.	394	7260	49	Okanogan	17020006	1929-present	81	High	INR
12446000	482140	1193450	Okanogan R. at Okanogan, Wa.	395	7900	49	Okanogan	17020006	1911-25	13	Moderate	HINR
12446500	483200	1194450	Salmon Cr. nr Concully, Wa.	396	121	49	Okanogan	17020006	1910-22	10	High	R
12447000	482400	1193700	Salmon Cr. nr Okanogan (Malott), Wa.	397	150	49	Okanogan	17020006	1903-10	5	Low	IM
12447200	481650	1194211	Okanogan R. at Malott, Wa.	398	8080	49	Okanogan	17020006	1958-present	31	High	INR
12447300	480610	1194230	Okanogan R. nr Malott, Wa.	399	8220	49	Okanogan	17020006	1958-67	8	High	INR
12447383	483432	1202305	Methow R. abv Goat Cr nr Mazama, Wa.	400	373	48	Okanogan	17020008	1991-present	6	Low	IM
12447390	484923	1200841	Andrews Cr. nr Mazama, Wa.	401	22.1	48	Okanogan	17020008	1968-present	29	None	M
12448000	482838	1201107	Chewuch R at Winthrop, Wa.	402	525	48	Okanogan	17020008	1991-present	5	Low	IM
12448500	482825	1201034	Methow R at Winthrop, Wa.	403	1007	48	Okanogan	17020008	1971-72;1989-present	7	Low	IM
12448998	482212	1200851	Twisp R nr Twisp, Wa.	404	245	48	Okanogan	17020008	1975-79;1989-present	12	Low	IM
12449500	482140	1200650	Methow R. at Twisp, Wa.	405	1301	48	Okanogan	17020008	1919-62;1991-present	45	Low	IM
12449600	482544	1200112	Beaver Cr. blw S. Fk., nr Twisp, Wa.	406	62	48	Okanogan	17020008	1960-78	18	None	M
12449700	482350	1200220	Beaver Cr. nr Twisp, Wa.	407	68.1	48	Okanogan	17020008	1956-61	5	Low	IM
12449950	480439	1195902	Methow R. nr Pateros, Wa.	408	1772	48	Okanogan	17020008	1959-present	38	Moderate	IM
12450500	480250	1195450	Methow R. at Pateros, Wa.	409	1810	48	Okanogan	17020008	1903-20	16	Low	IM
12450700	475648	1195156	Columbia R. blw Wells Dam, Wa.	410	86100	47	Chelan	17020005	1967-present	29	High	RI
12451000	481947	1204126	Stehekin R. at Stehekin, Wa.	411	321	47	Chelan	17020009	1910-15;1926-present	74	None	M
12451500	481145	1203550	Railroad Cr. at Lucerne, Wa.	412	64.8	47	Chelan	17020009	1911-13;1927-57	31	None	M
12451600	480638	1202132	Safety Harbor Cr. nr Manson, Wa.	413	7.85	47	Chelan	17020009	1961-69	7	None	M
12451620	480336	1201526	Grade Cr. nr Manson, Wa.	414	8.45	47	Chelan	17020009	1961-69	7	None	M
12451650	480114	1201140	Gold Cr. nr Manson, Wa.	415	6.3	47	Chelan	17020009	1961-69	7	None	M
12452500	475005	1200043	Chelan R. at Chelan, Wa.	416	924	47	Chelan	17020009	1903-present	93	High	IR(1927)
12452800	474907	1202519	Entiat R. nr Ardenvoir, Wa.	417	203	46	Chelan	17020010	1957-present	40	None	M
12453000	473940	1201330	Entiat R. at Entiat, Wa.	418	419	46	Chelan	17020010	1911-25;1951-58	21	None	M
12453700	473128	1201804	Columbia R. at Rocky Reach Dam, Wa.	419	87800	45	Chelan	17020010	1960-present	36	High	RI
12454000	475227	1205209	White R. nr Plain, Wa.	420	150	45	Chelan	17020011	1911-14;1954-8	29	None	M

Appendix A. Characteristics of Modeled Gaging Stations

USGS Station No.	LAT (ddmsss)	LONG (ddmsss)	Station Name	Map ID	Drainage		County	HUC	Period of Record (Calendar Yr.) *	Years of Data (1)	Degree of Regulation (2)	Type of Regulation (3)
					Area (mi2)	WRIA						
12455000	474850	1204320	Wenatchee R. blw Wenatchee Lk. Wa.	421	273	45	Chelan	17020011	1932-58	26	Low	NM
12456000	480425	1205055	Phelps Cr. nr Plain, Wa.	422	16.4	45	Chelan	17020011	1927-31	3	Low	DM
12456500	475030	1203940	Chiwawa R. nr Plain, Wa.	423	170	45	Chelan	17020011	1911-14;1936-49;1954-57;1991-present	23	None	M
12457000	474547	1203954	Wenatchee R. at Plain, Wa.	424	591	45	Chelan	17020011	1910-1979;1989-present	74	Low	INM
12458000	473228	1204308	Icicle Cr. abv Snow Cr nr Leavenworth, Wa.	425	193	45	Chelan	17020011	1936-71;1993-present	38	Low	NM
12458500	473330	1204000	Icicle Cr. nr Leavenworth, Wa.	426	211	45	Chelan	17020011	1911-15	3	Low	IM
12459000	473500	1203646	Wenatchee R. at Peshastin, Wa.	427	1000	45	Chelan	17020011	1929-present	68	Moderate	INM
12461000	473240	1203340	Wenatchee R. at Dryden, Wa.	428	1155	45	Chelan	17020011	1904-17	6	Moderate	DHIO
12461400	472548	1203020	Mission Cr. abv Sand Cr nr Cashmere, Wa.	429	39.8	45	Chelan	17020011	1958-71	12	None	M
12462000	473100	1202830	Mission Cr at Cashmere, Wa.	430	81.2	45	Chelan	17020011	1954-59	4	Low	DIM
12462500	472958	1202524	Wenatchee R. at Monitor, Wa.	431	1301	45	Chelan	17020011	1897;1962-present	34	Moderate	IM
12462600	471957	1200408	Columbia R. blw Rock Island Dam, Wa.	432	89400	44	Douglas	17020010	1913-16;1930-present	36	High	RI
12463000	473500	1200050	Douglas Cr. nr Alstow, Wa.	433	99.9	44	Douglas	17020012	1949-55;1963-68	11	Moderate	DIO
12464500	471330	1200050	Columbia R. at Trinidad, Wa.	434	90500	40	Kititias	17020010	1911,1913-63	34	High	IHR
12464800	472423	1181854	Coal Cr. at Mohler, Wa.	435	64.7	43	Lincoln	17020013	1963-74	11	Moderate	I
12465000	472138	1185056	Crab Cr. at Irby, Wa.	436	1042	43	Lincoln	17020013	1942-present	55	Low	I
12465400	473947	1185546	Wilson Cr. blw Corbett Draw nr Almira, Wa.	437	327	43	Lincoln	17020013	1969-71	4	Low	IM
12467000	471122	1191553	Crab Cr. nr Moses Lk, Wa.	438	2228	41	Grant	17020015	1942-present	54	High	DIS(1952)M
12468500	473422	1192532	Park Cr. blw Park Lk nr Coulee City, Wa.	439	38.4	42	Grant	17020014	1945-68	23	Low	IO
12470500	471846	1192640	Rocky Ford Cr. nr Ephrata, Wa.	440	458	41	Grant	17020015	1909-12;1942-91	49	Moderate	DA
12471500	465700	1191520	Crab Cr. nr Warden, Wa.	441	4470	41	Grant	17020015	1909-12;1943-66	4	High	IR(1952)
12472500	465035	1193625	Crab Cr. nr Smyrna, Wa.	442	4500	41	Grant	17020015	1942-60	17	High	IRS
12472600	464948	1194948	Crab Cr nr Beverly, Wa.	443	4840	41	Grant	17020015	1959-present	38	High	DIRS(1952)
12472800	463744	1195149	Columbia R. blw Priest Rapids Dam, Wa.	444	96000	36	Benton	17020016	1917-present	79	High	RI
12474500	471917	1212006	Yakima R. nr Martin, Wa.	445	54.7	39	Kititias	17030001	1903-78	73	High	R(1906)
12476000	471541	1211208	Kachess R. nr Easton, Wa.	446	63.6	39	Kititias	17030001	1904-78	74	High	R(1905)
12477000	471420	1211040	Yakima R. at Easton, Wa.	447	188	39	Kititias	17030001	1904-05;1910-15;1941-50;1950-55	18	High	M
12479000	471441	1210400	Cle Elum R. nr Roslyn, Wa.	448	203	39	Kititias	17030001	1904-78	74	High	R(1932)
12479500	471135	1205655	Yakima R. at Cle Elum, Wa.	449	495	39	Kititias	17030001	1906-78;1987-90	73	High	IR(1906)
12480000	471448	1205136	Teanaway R. blw Fk.s nr Cle Elum, Wa.	450	172	39	Kititias	17030001	1911-12;1968-73	25	Low	IM
12480500	471140	1204650	Teanaway R. nr Cle Elum, Wa.	451	200	39	Kititias	17030001	1909-14;1947-52	10	Low	IM
12483500	465800	1204140	Manastash Cr. nr Ellensburg, Wa.	452	74.5	39	Kititias	17030001	1909-14	4	None	M
12483800	470737	1202847	Nanenum Cr. nr Ellensburg, Wa.	453	69.5	39	Kititias	17030001	1957-78	20	Low	IM
12484500	465146	1202844	Yakima R. at Umтанum, Wa.	454	1594	39	Kititias	17030001	1906-present	72	High	IR(1906)
12488000	465222	1211729	Bumping R. nr Nile, Wa.	455	70.7	38	Yakima	17030002	1906;1909-78	69	High	R(1910)
12488500	465839	1211005	American R. nr Nile, Wa.	456	78.9	38	Yakima	17030002	1909-15;1939-present	58	None	M
12489500	464510	1204910	Naches R at Oak Flat nr Nile, Wa.	457	641	38	Yakima	17030002	1904-18	8	High	IR(1910)
12491500	463946	1210725	Tieton R. at Tieton Dam nr Naches, Wa.	458	187	38	Yakima	17030002	1908-14;1918-21;1925-78	58	High	R(1925)
12492500	464016	1210010	Tieton R. at Canal Headworks nr Naches, Wa.	459	239	38	Yakima	17030002	1906-78	64	High	IR(1925)
12494000	464444	1204605	Naches R. blw Tieton R. nr Naches, Wa.	460	941	38	Yakima	17030002	1905;1908-79	66	High	DIR(1910)
12499000	463742	1203110	Naches R. nr N. Yakima, Wa.	461	1106	38	Yakima	17030001	1893-1915;1987-90	11	High	IR(1910)
12500450	463204	1202758	Yakima R abv Ahtanum Cr at Union Gap, Wa.	462	3479	37	Yakima	17030003	1966-present	31	High	IR(1906)
12500500	463340	1205510	N. Fk. Ahtanum Cr. nr Tampico, Wa.	463	68.9	37	Yakima	17030003	1907-78	52	None	M
12501000	463033	1205436	S. Fk. Ahtanum Cr at Conrad Rnch N Tampico, Wa.	464	24.8	37	Yakima	17030003	1915-78	47	Low	IM
12501500	463110	1205320	S. Fk. Ahtanum Cr. nr Tampico, Wa.	465	28.5	37	Yakima	17030003	1908-15	5	Moderate	IM
12502000	463140	1204800	Ahtanum Cr at The Narrows nr Tampico, Wa.	466	119	37	Yakima	17030003	1908-13;1960-68	12	High	IOM
12502500	463210	1202820	Ahtanum Cr. at Union Gap, Wa.	467	173	37	Yakima	17030003	1904;1907-08;1910-14;1951-53;1960-present	41	High	ISM
12503000	463150	1202810	Yakima R. at Union Gap nr Yakima, Wa.	468	3652	37	Yakima	17030003	1898-1914;1963-66	14	High	IR(1905)M
12505000	462950	1202630	Yakima R. nr Parker, Wa.	469	3660	37	Yakima	17030003	1908-78	70	High	IR(1905)
12506000	461840	1204713	Toppenish Cr. nr Fort Simcoe, Wa.	470	122	37	Yakima	17030003	1909-24	14	Moderate	I(1920)M
12506500	462340	1204830	Simcoe Cr blw Spring Cr nr Fort Simcoe, Wa.	471	81.5	37	Yakima	17030003	1909-23	14	High	I(1920)M
12508990	461353	1195954	Yakima R. at Mabton, Wa.	472	5359	37	Yakima	17030003	1970-present	26	High	IR(1905)
12510500	461513	1192837	Yakima R. at Kiona, Wa.	473	5615	37	Benton	17030003	1896-1915;1933-present	71	High	IR(1905)
13334300	460550	1165836	Snake R. nr Anatone, Wa.	474	92960	35	Asotin	17060103	1958-present	39	High	HIR
13334500	461940	1171220	Asotin Cr. nr Asotin, Wa.	475	156	35	Asotin	17060103	1904-07;1910-12;1928-60	30	Moderate	DIM
13334700	461935	1170906	Asotin Cr blw Kearney Gulch nr Asotin, Wa.	476	170	35	Asotin	17060103	1959-82;1989-96	28	Moderate	DIM
13335050	462027	1170318	Asotin Cr at Asotin, Wa.	477	323	35	Asotin	17060103	1991-present	6	Moderate	IM
13343500	462541	1170951	Snake R. nr Clarkston, Wa.	478	103200	35	Asotin	17060107	1900-72	50	High	HIR
13343800	463551	1174654	Meadow Cr. nr Central Ferry, Wa.	479	66.2	35	Garfield	17060107	1963-74	11	Moderate	DI
13344000	462630	1174450	Tucannon R. nr Pomeroy, Wa.	480	160	35	Columbia	17060107	1913-15;1924-30	6	Moderate	IM



**Appendix A. Characteristics of Modeled Gaging Stations**

USGS Station No. (ddmsss)	LAT (ddmsss)	LONG (ddmsss)	Station Name	Map ID	Drainage			HUC	Period of Record (Calendar Yr.) *	Years of Data (1)	Degree of Regulation (2)	Type of Regulation (3)
					Area (mi2)	WRIA	County					
13344500	463020	1180355	Tucannon R. nr Starbuck, Wa.	481	431	35	Columbia	17060107	1915-17;1928-31;1958-90;1994-present	40	Moderate	I
13345300	465436	1170407	Palouse R. at Palouse, Wa.	482	360	34	Whitman	17060108	1973-80	7	Moderate	IOM
13346000	465515	1171904	Palouse R. nr Colfax, Wa.	483	491	34	Whitman	17060108	1955-64	8	Moderate	IO
13346100	465350	1172120	Palouse R. at Colfax, Wa.	484	497	34	Whitman	17060108	1955-73;1976-79	10	Moderate	DIOM
13346500	464220	1170955	S. Fk. Palouse R. abv Paradise C nr Pullman, Wa.	485	84.4	34	Whitman	17060108	1934-40	5	Low	R
13347000	464310	1170930	Paradise Cr. nr Pullman, Wa.	486	34.5	34	Whitman	17060108	1934-38	4	Low	D
13348000	464357	1171048	S. Fk. Palouse R. at Pullman, Wa.	487	132	34	Whitman	17060108	1934-42;1960-81	29	Moderate	DO
13348500	464359	1171047	Missouri Flat Cr. at Pullman, Wa.	488	27.1	34	Whitman	17060108	1934-40;1960-79	25	None	
13349000	464955	1171620	Fourmile Cr. at Shawnee, Wa.	489	71.6	34	Whitman	17060108	1934-40	5	None	
13349210	465323	1172209	Palouse R. blw S. Fk. at Colfax, Wa.	490	796	34	Whitman	17060108	1963-	28	Low	DO
13349400	471224	1173014	Pine Cr. at Pine City, Wa.	491	302	34	Whitman	17060109	1961-75	14	Moderate	I
13350500	464837	1172552	Union Flat Cr. nr Colfax, Wa.	492	189	34	Whitman	17060108	1953-71	18	Moderate	I
13351000	464531	1180852	Palouse R. at Hooper, Wa.	493	2500	34	Whitman	17060108	1897-99;1900-1916;1951-present	58	Moderate	I
13352500	464546	1180846	Cow Cr. at Hooper, Wa.	494	679	34	Whitman	17060108	1951-54;1962-70	10	High	IOM
13353000	461502	1182555	Snake R. blw Ice Harbor Dam, Wa.	495	108500	33	Walla Walla	17060110	1907-1917;1962-90;1995-96	32	High	HIR
14013000	460029	1180703	Mill Cr. nr Walla Walla, Wa.	496	59.6	32	Walla Walla	17070102	1913-17;1938;1939-76;1979-present	58	High	D
14013500	460330	1180810	Blue Cr. nr Walla Walla, Wa.	497	17	32	Walla Walla	17070102	1940-71	31	None	
14015000	460435	1181621	Mill Cr. at Walla Walla, Wa.	498	95.7	32	Walla Walla	17070102	1941-present	56	High	DFI
14016000	460720	1181410	Dry Cr. nr Walla Walla, Wa.	499	48.4	32	Walla Walla	17070102	1949-67	18	Low	I
14016500	461645	1175405	E. Fk. Touchet R. nr Dayton, Wa.	500	102	32	Columbia	17070102	1941-51;1956-64;1966-68	22	Low	I
14017000	461628	1181315	Touchet R. at Bolles, Wa.	501	361	32	Walla Walla	17070102	1924-29;1951-89	43	Moderate	DI
14017500	460230	1184100	Touchet R nr Touchet, Wa.	502	733	32	Walla Walla	17070102	1941-55	14	Moderate	I
14018500	460140	1184343	Walla Walla R. nr Touchet, Wa.	503	1657	32	Walla Walla	17070102	1951-present	45	High	I
14034350	455030	1195530	Alder Cr. at Alderdale, Wa.	504	197	31	Klickitat	17070101	1962-68;1980-82	7	Moderate	I
14036600	454455	1202604	Rock Cr. nr Roosevelt, Wa.	505	213	31	Klickitat	17070101	1962-68	5	None	
14070000	461554	1211438	Klickitat R abv W. Fk nr Glenwood, Wa.	506	151	30	Yakima	17070106	1945-77;1991-present	38	None	M
14108000	461530	1211620	W. Fk. Klickitat R. nr Glenwood, Wa.	507	87	30	Yakima	17070106	1910-11;1916-17;1945-49;1953-55	4	None	M
14110000	460520	1211530	Klickitat R. nr Glenwood, Wa.	508	360	30	Yakima	17070106	1905-09;1910-71	60	Moderate	IM
14112000	455040	1204742	Little Klickitat R nr Goldendale, Wa.	509	83.5	30	Klickitat	17070106	1911-12;1947-51;1958-70	18	Low	DI
14112300	455025	1205415	Spring Cr. nr Blockhouse, Wa.	510	2.75	30	Klickitat	17070106	1964-68	4	Low	AD
14112400	455134	1205749	Mill Cr. nr Blockhouse, Wa.	511	26.9	30	Klickitat	17070106	1964-72	8	Low	DI
14112500	455034	1210327	Little Klickitat R nr Wahkiacus, Wash	512	280	30	Klickitat	17070106	1945-81	33	Low	I
14113000	454524	1211232	Klickitat R. nr Pitt, Wa.	513	1297	30	Klickitat	17070106	1909-12;1929-present	71	Low	IM
14121300	460606	1213614	White Salmon R blw Cascades Cr nr Trout Lk, Wa.	514	32.4	29	Skamania	17070105	1957-78	21	Low	IM
14121400	460150	1213150	White Salmon R. abv Trout Lk Cr. nr Trout Lk, Wa.	515	64.9	29	Klickitat	17070105	1959-69	9	None	M
14121500	460020	1213220	Trout Lk Cr. nr Trout Lk, Wa.	516	69.3	29	Klickitat	17070105	1909-12;1959-69	10	None	M
14122000	455930	1212930	White Salmon R. nr Trout Lk, Wa.	517	185	29	Klickitat	17070105	1918;1929-31;1957-67	12	Low	I
14122500	455700	1212820	White Salmon R. at Splash Dam nr Trout Lk, Wa.	518	240	29	Klickitat	17070105	1912-17	5	Low	IM
14122900	455145	1213015	White Salmon R. at B-Z Corner, Wa.	519	269	29	Klickitat	17070105	1958-65	6	Low	I
14123000	454750	1212900	White Salmon R. at Husum, Wa.	520	294	29	Klickitat	17070105	1909-20;1930-41;1957-62	25	Low	I
14123500	454508	1213133	White Salmon R nr Underwood, Wa.	521	386	29	Skamania	17070105	1912-13;1915-30;1935-present	72	Moderate	HI
14124000	454800	1213830	L White Salmon R. nr Willard, Wa.	522	39.2	29	Skamania	17070105	1945-49	4	None	
14124500	454650	1213730	L White Salmon R. at Willard, Wa.	523	114	29	Skamania	17070105	1904-06;1945-61	16	High	D
14125000	454600	1213740	L White Salmon R abv Lapham Cr Willard, Wa.	524	117	29	Skamania	17070105	1949-64	14	High	DI
14125500	454325	1213758	L White Salmon R. nr Cook, Wa.	525	134	29	Skamania	17070105	1957-78	20	High	ADIO
14126500	455420	1215620	Falls Cr. nr Carson, Wa.	526	24.3	29	Skamania	17070105	1945-49	3	None	
14127000	454831	1215427	Wind R abv Trout Cr. nr Carson, Wa.	527	108	29	Skamania	17070105	1945-69	24	Low	A
14127500	454800	1215500	Trout Cr. nr Carson, Wa.	528	30.3	29	Skamania	17070105	1945-49	3	Low	H
14128000	454800	1215200	Panther Cr. nr Carson, Wa.	529	30.1	29	Skamania	17070105	1945-53	8	None	
14128500	454337	1214737	Wind R. nr Carson, Wa.	530	225	29	Skamania	17070105	1935-77;1995-96	42	Low	H
14143500	453730	1221655	Washougal R. nr Washougal, Wa.	531	108	28	Clark	17080001	1944-81	36	Low	A
14144000	453651	1222126	Little Washougal R. nr Washougal, Wa.	532	23.3	28	Clark	17080001	1951-56	4	Low	D
14212000	454626	1222640	Salmon Cr. nr Battle Ground, Wa.	533	18.3	28	Clark	17080001	1944-76	31	Low	D
14213200	460955	1215210	Lewis R. nr Trout Lk, Wa.	534	127	27	Skamania	17080002	1959-72	12	None	M
14213500	460536	1215150	Big Cr. blw Skookum Mdw nr Trout Lk, Wa.	535	13.2	27	Skamania	17080002	1927-31;1955-70	18	None	M
14214000	460230	1215030	Rush Cr. abv Meadow Cr. nr Trout Lk, Wa.	536	5.87	27	Skamania	17080002	1955-65	9	None	M
14214500	460250	1215120	Meadow Cr blw Lone Butte Mdw nr Trout Lk, Wa.	537	11.7	27	Skamania	17080002	1927-31;1955-65	13	None	
14215000	460312	1215440	Rush Cr. abv Falls nr Cougar, Wa.	538	26	27	Skamania	17080002	1928-31;1956-74	21	None	M
14215500	460222	1215438	Curly Cr. nr Cougar, Wa.	539	11.6	27	Skamania	17080002	1955-70	14	None	M
14216000	460338	1215900	Lewis R. abv Muddy R. nr Cougar, Wa.	540	227	27	Skamania	17080002	1927-34;1955-70	23	None	

**Appendix A. Characteristics of Modeled Gaging Stations**

USGS Station No.	LAT (ddmsss)	LONG (ddmsss)	Station Name	Map ID	Drainage			HUC	Period of Record (Calendar Yr.) *	Years of Data (1)	Degree of Regulation (2)	Type of Regulation (3)
					Area (mi <sup>2</sup> )	WRIA	County					
14216500	460650	1220024	Muddy R. blw Clear Cr. nr Cougar, Wa.	541	131	27	Skamania	17080002	1927-34;1954-73;1983-present	24	None	
14216800	460530	1220227	Pine Cr. nr Cougar, Wa.	542	22.4	27	Skamania	17080002	1957-70	12	Low	N
14217500	460350	1221130	Swift Cr. nr Cougar, Wa.	543	27.5	27	Skamania	17080002	1924-34;1954-56	10	None	
14218000	460330	1221240	Lewis R. nr Cougar, Wa.	544	481	27	Skamania	17080002	1910-12;1924-58	34	High	R(1958)
14219000	455630	1221915	Canyon Cr. nr Amboy, Wa.	545	63.8	27	Clark	17080002	1922-34	12	None	
14219500	455750	1222300	Lewis R. nr Amboy, Wa.	546	665	27	Clark	17080002	1911-31	18	None	
14219800	460028	1222046	Speelyai Cr. nr Cougar, Wa.	547	12.6	27	Cowlitz	17080002	1959-78;1978-present	22	None	
14220500	455707	1223346	Lewis R. at Ariel, Wa.	548	731	27	Clark	17080002	1909;1922;1923-present	59	High	R(1931)
14221500	455554	1223140	Cedar Cr. nr Ariel, Wa.	549	40.8	27	Clark	17080002	1951-55;1961-69	12	Low	DI
14222500	455013	1222754	E. Fk. Lewis R. nr Heisson, Wa.	550	125	27	Clark	17080002	1929-present	63	None	
14223000	460102	1224352	Kalama R. nr Kalama, Wa.	551	179	27	Cowlitz	17080003	1911-13;1916-33	16	Low	H
14223500	460242	1224851	Kalama R. blw Italian Cr nr Kalama, Wa.	552	198	27	Cowlitz	17080003	1947-75	28	Low	A
14224000	464030	1213510	Ohanapecosh R. nr Lewis, Wa.	553	101	26	Lewis	17080004	1907-13	5	None	M
14224500	464050	1213430	Clear Fk Cowlitz R. nr Packwood, Wa.	554	56.5	26	Lewis	17080004	1907-13;1930-43;1950	17	Low	A(1930)M
14225500	463547	1213408	Lk Cr. nr Packwood, Wa.	555	19.2	26	Lewis	17080004	1912-24;1930-43;1950-54;1959-80	48	High	H(1964)
14226000	463748	1213812	Lk Cr. at Mouth, nr Packwood, Wa.	556	26.5	26	Lewis	17080004	1907-15;1962-77	21	High	H(1964)
14226500	463647	1214041	Cowlitz R. at Packwood, Wa.	557	287	26	Lewis	17080004	1911-19;1929-present	74	Moderate	DHR(1964)
14230000	463400	1214100	Johnson Cr. nr Packwood, Wa.	558	50	26	Lewis	17080004	1907-14;1919-24;1947-50	13	None	M
14232500	462630	1215146	Cispus R. nr Randle, Wa.	559	321	26	Lewis	17080004	1910-12;1929-96	66	None	M
14233400	462813	1220551	Cowlitz R. nr Randle, Wa.	560	1030	26	Lewis	17080004	1948-94	45	Low	DIR(1964)M
14233500	462850	1221635	Cowlitz R. nr Kosmos, Wa.	561	1040	26	Lewis	17080005	1947-present	49	High	R(1994)
14235000	463301	1222931	Cowlitz R. at Mossyrock, Wa.	562	1162	26	Lewis	17080005	1912-17;1926-35;1946-60	23	Low	DIM
14235500	463640	1221436	W. Fk. Tilton R. nr Morton, Wa.	563	16.4	26	Lewis	17080005	1950-71	20	Low	O
14236200	463544	1222730	Tilton R. abv Bear Canyon Cr nr Cinebar, Wa.	564	141	26	Lewis	17080005	1956-present	40	Low	DI
14236400	463620	1223030	Cinnabar Cr. nr Cinebar, Wa.	565	4.55	26	Lewis	17080005	1957-66	8	None	
14236500	463540	1222730	Tilton R. nr Cinebar, Wa.	566	156	26	Lewis	17080005	1941-58	16	Low	DI
14237000	463115	1222807	Klickitat Cr. at Mossyrock, Wa.	567	3.29	26	Lewis	17080005	1948-72	23	None	
14237500	462857	1223113	Winston Cr. nr Silver Lk, Wa.	568	37.8	26	Lewis	17080005	1950-70	20	Low	O
14238000	463038	1223654	Cowlitz R. blw Mayfield Dam, Wa.	569	1400	26	Lewis	17080005	1910;1934-present	63	High	DIR(1962)
14239000	462450	1224915	Salmon Cr. nr Toledo, Wa.	570	77.6	26	Lewis	17080005	1949;1961-71	10	Low	D
14241500	461920	1224145	S. Fk. Toutle R. at Toutle, Wa.	571	120	26	Cowlitz	17080005	1940-58;1996	17	None	
14242500	462011	1224327	Toutle R. nr Silver Lk, Wa.	572	474	26	Cowlitz	17080005	1909-12;1920-24;1929-80	53	None	
14243000	461630	1225448	Cowlitz R. at Castle Rock, Wa.	573	2238	26	Cowlitz	17080005	1926-85;1985-present	58	High	DIR(1962)
14243500	461549	1225758	Delameter Cr. nr Castle Rock, Wa.	574	19.6	26	Cowlitz	17080005	1949-69	19	Low	D
14245000	460742	1225014	Coweman R. nr Kelso, Wa.	575	119	26	Cowlitz	17080005	1950-84	31	None	
14246000	461210	1230915	Abernathy Cr. nr Longview, Wa.	576	20.3	25	Cowlitz	17080003	1949-58	8	Low	D
14246500	461140	1231125	Mill Cr. nr Cathlamet, Wa.	577	27.6	25	Cowlitz	17080003	1949-56	6	None	
14247500	461317	1232028	Elochoman R. nr Cathlamet, Wa.	578	65.8	25	Wahkiakum	17080003	1941-71	30	Low	DI
14248200	461637	1233337	Jim Crow Cr. nr Grays R., Wa.	579	5.48	25	Wahkiakum	17080006	1964-74	10	None	
14249000	462336	1232839	Grays R. abv S. Fk nr Grays R., Wa.	580	39.9	25	Pacific	17080006	1956-75	19	None	
14249500	462330	1232835	Grays R. blw S. Fk. Grays R., Wa.	581	60.3	25	Pacific	17080006	1956-60	4	None	
14250500	462307	1233330	W. Fk. Grays R. nr Grays R., Wa.	582	15.2	25	Pacific	17080006	1949-69	20	Low	A

\* "Present" refers to stations active through water year 1997.

- (1) The number of years of data evaluated for baseflow analysis. See the annual data table in Appendix-D to identify specific years evaluated for baseflow.
- (2) An indication of the relative degree of streamflow regulation. See p. 5 of this report for an explanation of the ranking system.
- (3) Type of

Regulation	Description of Regulation
D	Flow effected by domestic, municipal, or industrial water diversions
I	Flow effected by irrigation withdrawals
R	Flow effected by reservoir releases. The initial date of regulation is indicated if known. For multiple reservoir systems, the indicated date is for the first reservoir constructed.
N	Flow effected by natural regulation such as lake storage, snowmelt, or other effects
F	Flow effected by reservoir retention and release for flood control
S	Stream flow supplemented by well discharge, interbasin transfer, or industrial/municipal discharges
H	Flow effected by hydropower diversion/generation
A	Flow effected by diversions for aquaculture/fish hatchery operations
L	Lowflows supplemented by reservoir releases
U	Natural flow effected by urbanization
O	Flow known to be effected by nonspecific causes (small impoundments, check dams, ground water pumpage, etc)
M	Flow seasonally affected by significant snow melt or glacial-meltwater

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean	Mean	Mean	Mean	Mean	Mean BF	Mean	
				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12009500	BEAR BRANCH NEAR NASELLE, WA	11.7	October	3.19	1.90	5.09	32	19	52	63	2.8
			November	7.70	3.74	11.44	81	39	120	67	6.9
			December	11.93	6.57	18.50	121	67	188	64	10
			January	11.49	7.23	18.72	117	73	190	61	10
			February	7.84	3.57	11.41	87	40	127	69	7.5
			March	7.42	3.06	10.48	75	31	106	71	6.4
			April	5.00	1.42	6.42	52	15	67	78	4.5
			May	2.90	0.96	3.87	29	9.8	39	75	2.5
			June	1.90	1.03	2.93	20	11	31	65	1.7
			July	1.35	0.42	1.77	14	4.2	18	76	1.2
	August	0.96	0.25	1.21	9.7	2.5	12	79	0.83		
	September	1.36	0.63	2.00	14	6.6	21	68	1.2		
12010000	NASELLE RIVER NEAR NASELLE, WA	54.8	October	2.90	2.90	5.80	138	138	276	50	2.5
			November	7.89	6.56	14.45	388	322	710	55	7.1
			December	10.63	8.78	19.41	505	417	922	55	9.2
			January	9.64	8.43	18.07	458	401	859	53	8.4
			February	8.28	7.09	15.37	432	370	802	54	7.9
			March	7.74	5.33	13.07	368	253	621	59	6.7
			April	5.25	2.97	8.22	258	146	404	64	4.7
			May	3.29	1.09	4.38	156	52	208	75	2.9
			June	2.12	0.68	2.80	104	33	138	76	1.9
			July	1.33	0.30	1.62	63	14	77	82	1.2
	August	0.88	0.19	1.08	42	9.2	51	82	0.77		
	September	1.09	0.66	1.75	53	33	86	62	0.97		
12010500	SALMON CREEK NEAR NASELLE, WA	16.4	October	3.61	2.65	6.26	172	126	298	58	3.1
			November	7.89	7.80	15.69	388	383	771	50	7.1
			December	10.37	5.51	15.88	493	262	755	65	9
			January	9.83	6.49	16.32	467	308	776	60	8.5
			February	9.29	4.37	13.66	485	228	712	68	8.8
			March	6.85	4.35	11.20	326	207	532	61	5.9
			April	5.34	2.41	7.75	262	118	381	69	4.8
			May	2.86	0.56	3.42	136	27	163	84	2.5
			June	1.48	0.26	1.75	73	13	86	85	1.3
			July	0.73	0.14	0.88	35	6.8	42	84	0.64
	August	0.55	0.14	0.69	26	6.7	33	80	0.48		
	September	0.72	0.41	1.13	36	20	56	64	0.65		
12010700	SOUTH FORK NASELLE RIVER NEAR NASELLE, WA	17.9	October	2.65	2.36	5.00	41	37	78	53	2.3
			November	6.58	4.94	11.52	106	79	185	57	5.9
			December	11.59	8.68	20.27	180	135	315	57	10
			January	11.89	9.52	21.40	185	148	332	56	10
			February	8.20	4.41	12.62	140	75	215	65	7.8
			March	7.68	4.55	12.23	119	71	190	63	6.7
			April	4.19	1.80	5.99	67	29	96	70	3.8
			May	2.31	1.16	3.47	36	18	54	66	2
			June	1.45	1.13	2.58	23	18	41	56	1.3
			July	0.81	0.49	1.30	13	7.6	20	62	0.7
	August	0.54	0.35	0.89	8.4	5.4	14	61	0.47		
	September	1.20	0.78	1.98	19	13	32	61	1.1		

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12011000	NORTH NEMAH RIVER NEAR SOUTH BEND, WA	18	October	3.19	1.83	5.02	50	28	78	64	2.8
			November	6.59	3.52	10.11	106	57	163	65	5.9
			December	11.47	5.12	16.59	179	80	259	69	10
			January	11.25	6.07	17.32	176	95	270	65	9.8
			February	9.73	4.83	14.56	167	83	249	67	9.3
			March	7.06	3.49	10.55	110	54	165	67	6.1
			April	4.22	1.17	5.38	68	19	87	78	3.8
			May	2.69	0.63	3.32	42	9.8	52	81	2.3
			June	1.85	0.48	2.33	30	7.7	38	79	1.7
			July	1.27	0.13	1.40	20	2	22	91	1.1
			August	0.95	0.22	1.16	15	3.4	18	82	0.82
			September	1.14	0.31	1.45	18	5	23	79	1
12011200	WILLIAMS CREEK NEAR SOUTH BEND, WA	9.43	October	2.75	1.11	3.86	22	9.1	32	71	2.4
			November	6.26	2.13	8.38	53	18	71	75	5.6
			December	11.67	4.93	16.59	95	40	136	70	10
			January	12.43	6.12	18.55	102	50	152	67	11
			February	9.20	2.31	11.51	83	21	103	80	8.8
			March	8.92	2.97	11.89	73	24	97	75	7.7
			April	5.81	1.00	6.80	49	8.4	57	85	5.2
			May	3.83	0.46	4.29	31	3.7	35	89	3.3
			June	2.91	0.57	3.48	25	4.8	29	84	2.6
			July	2.21	0.20	2.41	18	1.7	20	92	1.9
			August	1.75	0.16	1.91	14	1.3	16	92	1.5
			September	1.81	0.52	2.33	15	4.4	20	78	1.6
12011500	WILLAPA RIVER AT LEBAM, WA	41.4	October	1.18	1.17	2.36	42	42	85	50	1
			November	3.81	4.12	7.92	141	153	294	48	3.4
			December	6.80	5.08	11.88	244	182	427	57	5.9
			January	7.05	6.07	13.12	253	218	471	54	6.1
			February	5.74	4.49	10.23	226	177	403	56	5.5
			March	5.28	3.23	8.51	190	116	306	62	4.6
			April	3.27	1.53	4.80	121	57	178	68	2.9
			May	1.68	0.59	2.28	60	21	82	74	1.5
			June	0.74	0.27	1.01	27	10	37	73	0.66
			July	0.38	0.05	0.43	14	1.9	16	88	0.33
			August	0.24	0.06	0.30	8.6	2.2	11	79	0.21
			September	0.29	0.16	0.44	11	5.9	16	64	0.26
12012000	FORK CREEK NEAR LEBAM, WA	20.4	October	3.23	2.49	5.72	57	44	101	56	2.8
			November	7.32	5.78	13.11	134	106	240	56	6.6
			December	10.29	5.95	16.24	182	105	287	63	8.9
			January	10.58	6.64	17.22	187	117	305	61	9.2
			February	9.38	4.34	13.72	182	84	266	68	8.9
			March	7.54	4.86	12.40	133	86	219	61	6.5
			April	5.67	2.57	8.24	104	47	151	69	5.1
			May	3.00	0.59	3.59	53	10	64	84	2.6
			June	1.58	0.41	1.99	29	7.5	36	79	1.4
			July	0.83	0.15	0.99	15	2.7	17	84	0.72
			August	0.58	0.22	0.79	10	3.8	14	73	0.5
			September	0.81	0.52	1.33	15	9.5	24	61	0.72

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12013500	WILLAPA RIVER NEAR WILLAPA, WA	130	October	1.13	1.23	2.35	127	138	265	48	0.98
			November	4.28	4.00	8.27	498	466	964	52	3.8
			December	7.27	5.75	13.01	819	648	1470	56	6.3
			January	6.79	5.59	12.38	766	630	1400	55	5.9
			February	5.50	4.69	10.18	680	580	1260	54	5.2
			March	5.16	3.50	8.66	582	394	977	60	4.5
			April	3.52	1.76	5.28	410	205	615	67	3.2
			May	2.11	0.55	2.67	238	62	301	79	1.8
			June	1.09	0.30	1.39	127	35	162	78	0.98
			July	0.55	0.12	0.68	62	14	76	82	0.48
			August	0.32	0.10	0.42	36	11	47	76	0.28
			September	0.40	0.29	0.69	47	33	80	58	0.36
12014500	SOUTH FORK WILLAPA RIVER NEAR RAYMOND, WA	27.8	October	2.53	1.06	3.58	61	25	86	71	2.2
			November	5.76	2.73	8.48	143	68	211	68	5.2
			December	9.83	3.59	13.42	237	87	324	73	8.5
			January	10.57	4.56	15.14	255	110	365	70	9.2
			February	9.26	2.30	11.56	245	61	306	80	8.8
			March	8.16	2.33	10.50	197	56	253	78	7.1
			April	5.76	1.32	7.08	144	33	176	81	5.2
			May	3.64	0.33	3.97	88	8	96	92	3.2
			June	2.28	0.28	2.56	57	6.9	64	89	2
			July	1.61	0.06	1.67	39	1.4	40	96	1.4
			August	1.24	0.08	1.32	30	2	32	94	1.1
			September	1.23	0.25	1.48	31	6.2	37	83	1.1
12015100	CLEARWATER CREEK NEAR RAYMOND, WA	3.98	October	2.29	0.86	3.15	7.9	3	11	73	2
			November	4.99	1.62	6.61	18	5.8	24	76	4.5
			December	10.08	3.80	13.88	35	13	48	73	8.7
			January	12.42	5.54	17.96	43	19	62	69	11
			February	8.99	2.20	11.19	34	8.3	42	80	8.6
			March	7.86	2.14	10.00	27	7.4	35	79	6.8
			April	5.33	0.79	6.12	19	2.8	22	87	4.8
			May	3.37	0.41	3.78	12	1.4	13	89	2.9
			June	2.49	0.45	2.94	8.9	1.6	10	85	2.2
			July	1.87	0.21	2.08	6.5	0.71	7.2	90	1.6
			August	1.45	0.11	1.57	5	0.39	5.4	93	1.3
			September	1.47	0.35	1.81	5.2	1.2	6.5	81	1.3
12015200	SMITH CREEK NEAR RAYMOND, WA	57.7	October	1.54	1.23	2.77	77	61	138	56	1.3
			November	6.44	3.80	10.23	333	196	529	63	5.8
			December	5.59	3.66	9.25	280	183	463	60	4.8
			January	9.28	7.08	16.36	464	355	819	57	8
			February	5.48	2.59	8.06	301	142	443	68	5.2
			March	5.06	2.47	7.52	253	123	376	67	4.4
			April	1.85	1.06	2.91	96	55	150	64	1.7
			May	1.46	0.49	1.95	73	25	98	75	1.3
			June	0.74	0.11	0.85	38	5.8	44	87	0.66
			July	0.44	0.08	0.52	22	4	26	85	0.38
			August	0.33	0.14	0.47	16	7.1	23	70	0.28
			September	0.33	0.11	0.44	17	5.6	23	75	0.3

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12015500	NORTH RIVER NEAR BROOKLYN, WA	29.8	October	1.25	0.93	2.18	32	24	56	57	1.1
			November	3.96	3.38	7.34	106	90	196	54	3.5
			December	6.02	3.04	9.06	156	79	234	66	5.2
			January	6.21	2.91	9.12	161	75	236	68	5.4
			February	5.52	2.07	7.59	157	59	215	73	5.3
			March	4.67	1.80	6.47	121	46	167	72	4.1
			April	3.25	1.14	4.39	87	31	117	74	2.9
			May	2.04	0.28	2.31	53	7.1	60	88	1.8
			June	1.00	0.15	1.15	27	4.1	31	87	0.89
			July	0.55	0.05	0.60	14	1.3	15	92	0.47
			August	0.41	0.08	0.49	10	2.1	13	83	0.35
			September	0.43	0.21	0.63	11	5.5	17	67	0.38
12016500	LITTLE NORTH RIVER NEAR COSMOPOLIS, WA	18.6	October	1.81	2.23	4.04	29	36	65	45	1.6
			November	5.24	3.65	8.89	87	61	148	59	4.7
			December	7.70	4.42	12.12	124	71	196	64	6.7
			January	5.05	3.30	8.35	81	53	135	60	4.4
			February	5.31	6.02	11.33	94	107	201	47	5.1
			March	3.68	2.10	5.78	59	34	93	64	3.2
			April	2.73	1.09	3.82	46	18	64	71	2.4
			May	1.87	0.85	2.72	30	14	44	69	1.6
			June	0.80	0.15	0.95	13	2.6	16	84	0.72
			July	0.45	0.07	0.52	7.3	1.1	8.4	87	0.39
			August	0.22	0.04	0.26	3.5	0.6	4.1	85	0.19
			September	0.27	0.18	0.45	4.5	3	7.5	60	0.24
12017000	NORTH RIVER NEAR RAYMOND, WA	219	October	1.36	1.32	2.68	258	252	509	51	1.2
			November	4.10	3.16	7.26	804	620	1420	56	3.7
			December	6.62	5.10	11.72	1260	969	2230	56	5.7
			January	6.85	4.72	11.57	1300	896	2200	59	5.9
			February	5.41	3.54	8.95	1130	738	1870	60	5.2
			March	5.03	2.91	7.94	955	552	1510	63	4.4
			April	3.36	1.53	4.88	659	299	959	69	3
			May	1.83	0.65	2.48	348	123	471	74	1.6
			June	1.01	0.32	1.33	199	62	261	76	0.91
			July	0.56	0.10	0.67	107	20	127	84	0.49
			August	0.35	0.08	0.44	67	16	83	81	0.31
			September	0.45	0.29	0.74	88	57	145	61	0.4
12018000	NEWSKAH CREEK NEAR ABERDEEN, WA	7.44	October	4.04	2.83	6.87	26	18	44	59	3.5
			November	6.66	4.63	11.28	44	31	75	59	6
			December	9.35	5.57	14.92	60	36	96	63	8.1
			January	6.84	3.26	10.11	44	21	65	68	5.9
			February	6.49	6.54	13.02	46	46	92	50	6.2
			March	4.43	2.49	6.91	29	16	45	64	3.8
			April	3.53	1.72	5.25	24	11	35	67	3.2
			May	2.50	1.28	3.78	16	8.3	24	66	2.2
			June	1.20	0.28	1.48	8	1.9	9.8	81	1.1
			July	0.96	0.12	1.08	6.2	0.76	7	89	0.83
			August	0.55	0.04	0.59	3.6	0.26	3.8	93	0.48
			September	0.74	0.51	1.25	4.9	3.4	8.3	59	0.66

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12018500	CHARLEY (CHARLIES) CREEK NEAR ABERDEEN, WA	5.93	October	2.09	1.40	3.49	11	7.2	18	60	1.8
			November	4.89	2.63	7.52	26	14	40	65	4.4
			December	6.99	4.43	11.42	36	23	59	61	6.1
			January	5.54	2.23	7.77	28	11	40	71	4.8
			February	5.19	5.17	10.36	29	29	58	50	4.9
			March	4.10	1.81	5.90	21	9.3	30	69	3.6
			April	3.50	0.93	4.43	19	5	24	79	3.1
			May	2.47	0.91	3.38	13	4.7	17	73	2.1
			June	1.21	0.26	1.47	6.4	1.4	7.8	82	1.1
			July	0.91	0.12	1.03	4.7	0.59	5.3	89	0.79
			August	0.49	0.07	0.56	2.5	0.35	2.9	88	0.43
			September	0.58	0.19	0.76	3.1	0.99	4.1	76	0.52
12020000	CHEHALIS RIVER NEAR DOTY, WA	113	October	1.29	1.67	2.96	126	164	290	44	1.1
			November	4.28	4.75	9.02	433	481	914	47	3.8
			December	6.52	6.03	12.55	639	591	1230	52	5.7
			January	6.41	6.01	12.42	628	589	1220	52	5.6
			February	5.67	5.12	10.79	610	551	1160	53	5.4
			March	5.38	3.72	9.10	527	364	892	59	4.7
			April	3.82	1.98	5.80	387	200	587	66	3.4
			May	2.09	0.69	2.78	205	67	272	75	1.8
			June	1.11	0.31	1.42	113	31	144	78	1
			July	0.61	0.11	0.73	60	11	71	84	0.53
			August	0.39	0.09	0.47	38	8.5	46	82	0.33
			September	0.48	0.31	0.80	49	32	81	61	0.43
12020500	ELK CREEK NEAR DOTY, WA	46.7	October	0.90	0.87	1.76	36	35	71	51	0.78
			November	2.76	2.39	5.14	115	100	215	54	2.5
			December	5.39	3.05	8.45	218	124	342	64	4.7
			January	5.41	2.48	7.89	219	100	320	69	4.7
			February	4.92	4.23	9.16	219	188	407	54	4.7
			March	4.10	1.86	5.96	166	75	241	69	3.6
			April	3.00	0.76	3.76	126	32	157	80	2.7
			May	1.86	0.40	2.26	75	16	91	82	1.6
			June	0.97	0.26	1.23	40	11	51	79	0.87
			July	0.58	0.07	0.65	24	2.9	26	89	0.5
			August	0.42	0.06	0.48	17	2.3	19	88	0.36
			September	0.46	0.14	0.60	19	5.8	25	77	0.41
12020900	SOUTH FORK CHEHALIS RIVER NEAR BOISTFORT, WA	44.9	October	0.64	0.67	1.31	25	26	51	49	0.55
			November	2.56	2.54	5.10	103	102	205	50	2.3
			December	5.78	6.30	12.08	225	245	470	48	5
			January	6.43	5.53	11.96	250	215	466	54	5.6
			February	4.27	3.38	7.65	182	145	327	56	4.1
			March	4.96	3.25	8.21	193	126	320	60	4.3
			April	2.86	1.04	3.90	115	42	157	73	2.6
			May	1.39	0.31	1.70	54	12	66	82	1.2
			June	0.66	0.24	0.90	27	9.6	36	73	0.59
			July	0.25	0.08	0.33	9.7	3	13	76	0.22
			August	0.11	0.07	0.18	4.3	2.8	7.1	61	0.1
			September	0.26	0.19	0.45	11	7.6	18	58	0.23

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12021000	SOUTH FORK CHEHALIS RIVER AT BOISTFORT, WA	48	October	0.65	0.71	1.36	27	30	57	48	0.56
			November	3.39	4.10	7.49	146	176	322	45	3
			December	6.33	4.21	10.54	264	175	439	60	5.5
			January	6.08	4.28	10.36	253	178	431	59	5.3
			February	4.88	5.35	10.23	223	245	467	48	4.6
			March	4.25	3.28	7.53	177	136	313	56	3.7
			April	2.83	1.17	4.00	122	50	172	71	2.5
			May	1.78	0.65	2.43	74	27	101	73	1.5
			June	0.68	0.10	0.79	29	4.4	34	87	0.61
			July	0.35	0.06	0.41	14	2.4	17	86	0.3
August	0.19	0.06	0.25	8	2.6	11	76	0.17			
September	0.19	0.09	0.28	8	3.9	12	68	0.17			
12024000	SOUTH FORK NEWAUKUM RIVER NEAR ONALASKA, WA	42.4	October	1.82	1.17	2.99	67	43	110	61	1.6
			November	4.18	3.28	7.46	159	125	283	56	3.7
			December	6.08	3.36	9.44	224	124	347	64	5.3
			January	7.24	4.27	11.51	266	157	423	63	6.3
			February	6.06	2.75	8.81	245	111	355	69	5.8
			March	5.57	1.78	7.36	205	66	271	76	4.8
			April	4.79	1.30	6.10	182	50	232	79	4.3
			May	3.25	0.77	4.01	119	28	148	81	2.8
			June	1.79	0.57	2.36	68	22	90	76	1.6
			July	1.24	0.18	1.42	46	6.5	52	88	1.1
August	0.93	0.13	1.06	34	4.9	39	87	0.8			
September	0.96	0.40	1.35	36	15	51	71	0.86			
12024500	NORTH FORK NEWAUKUM RIVER NEAR FOREST, WA	31.5	October	0.69	0.48	1.17	19	13	32	59	0.6
			November	2.73	2.20	4.93	77	62	139	55	2.5
			December	4.96	2.04	7.00	136	56	191	71	4.3
			January	5.96	2.68	8.64	163	73	236	69	5.2
			February	5.17	1.52	6.69	155	45	200	77	4.9
			March	4.88	1.46	6.34	133	40	173	77	4.2
			April	3.11	0.95	4.06	88	27	115	77	2.8
			May	2.08	0.42	2.49	57	11	68	83	1.8
			June	0.98	0.19	1.17	28	5.4	33	84	0.88
			July	0.55	0.14	0.69	15	3.9	19	79	0.48
August	0.39	0.14	0.53	11	3.8	14	74	0.34			
September	0.30	0.14	0.44	8.4	4	12	68	0.27			
12025000	NEWAUKUM RIVER NEAR CHEHALIS, WA	155	October	0.76	0.63	1.39	102	85	187	54	0.66
			November	2.72	2.50	5.22	378	347	725	52	2.4
			December	4.52	3.21	7.73	607	432	1040	58	3.9
			January	4.71	3.33	8.04	634	447	1080	59	4.1
			February	3.96	2.72	6.67	584	401	985	59	3.8
			March	3.70	2.00	5.69	497	269	766	65	3.2
			April	2.78	1.15	3.93	386	160	546	71	2.5
			May	1.67	0.51	2.17	224	68	292	77	1.4
			June	0.97	0.36	1.33	134	50	184	73	0.87
			July	0.55	0.12	0.67	74	16	90	83	0.48
August	0.34	0.07	0.40	45	9.3	54	83	0.29			
September	0.35	0.15	0.50	49	21	70	70	0.31			



## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12025300	SALZER CREEK NEAR CENTRALIA, WA	12.6	October	0.53	0.28	0.82	5.8	3.1	8.9	65	0.46
			November	1.36	0.85	2.21	15	9.6	25	61	1.2
			December	3.92	3.41	7.32	43	37	80	53	3.4
			January	5.29	3.67	8.95	58	40	98	59	4.6
			February	2.56	1.63	4.18	31	20	50	61	2.4
			March	2.00	1.63	3.63	22	18	40	55	1.7
			April	1.17	0.81	1.98	13	9.1	22	59	1
			May	0.36	0.34	0.70	3.9	3.7	7.6	51	0.31
			June	0.14	0.24	0.37	1.5	2.7	4.2	37	0.12
			July	0.04	0.01	0.06	0.48	0.13	0.61	79	0.04
			August	0.06	0.02	0.08	0.64	0.26	0.91	71	0.05
			September	0.05	0.11	0.16	0.6	1.2	1.8	33	0.05
12025700	SKOOKUMCHUCK RIVER NEAR VAIL, WA	40	October	1.30	1.08	2.37	45	37	82	55	1.1
			November	4.16	3.74	7.89	149	134	283	53	3.7
			December	6.73	4.65	11.38	233	161	395	59	5.8
			January	5.99	5.08	11.07	208	176	384	54	5.2
			February	5.20	4.23	9.43	198	161	359	55	4.9
			March	5.63	3.08	8.70	195	107	302	65	4.9
			April	4.53	2.07	6.60	162	74	236	69	4.1
			May	3.14	0.72	3.86	109	25	134	81	2.7
			June	1.96	0.62	2.57	70	22	92	76	1.8
			July	1.21	0.19	1.40	42	6.6	49	86	1
			August	0.81	0.11	0.92	28	3.9	32	88	0.7
			September	0.84	0.29	1.13	30	10	40	74	0.75
12026000	SKOOKUMCHUCK RIVER NEAR CENTRALIA, WA	61.7	October	1.24	0.88	2.12	66	47	114	58	1.1
			November	3.27	3.15	6.43	181	174	355	51	2.9
			December	5.21	3.97	9.18	279	213	491	57	4.5
			January	5.70	3.46	9.16	305	185	490	62	4.9
			February	5.08	3.25	8.33	298	191	489	61	4.8
			March	4.64	2.40	7.03	248	128	376	66	4
			April	3.96	1.20	5.16	219	66	285	77	3.6
			May	2.44	0.56	3.00	131	30	160	81	2.1
			June	1.39	0.38	1.76	77	21	98	79	1.2
			July	0.88	0.10	0.98	47	5.4	53	90	0.76
			August	0.60	0.08	0.68	32	4.5	37	88	0.52
			September	0.59	0.16	0.75	33	9	42	79	0.53
12026150	SKOOKUMCHUCK R BELOW BLDY RN CREEK N CENTRALIA, WA	65.9	October	*	*	2.44	*	*	140	*	*
			November	*	*	4.02	*	*	237	*	*
			December	*	*	8.24	*	*	471	*	*
			January	*	*	9.25	*	*	529	*	*
			February	*	*	7.40	*	*	464	*	*
			March	*	*	6.71	*	*	383	*	*
			April	*	*	5.18	*	*	306	*	*
			May	*	*	3.20	*	*	183	*	*
			June	*	*	2.24	*	*	132	*	*
			July	*	*	1.77	*	*	101	*	*
			August	*	*	1.61	*	*	92	*	*
			September	*	*	2.23	*	*	132	*	*

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12026400	SKOOKUMCHUCK RIVER NEAR BUCODA, WA	112	October	*	*	1.55	*	*	151	*	*
			November	*	*	3.48	*	*	349	*	*
			December	*	*	7.27	*	*	707	*	*
			January	*	*	7.93	*	*	770	*	*
			February	*	*	6.49	*	*	692	*	*
			March	*	*	5.64	*	*	548	*	*
			April	*	*	4.10	*	*	411	*	*
			May	*	*	2.26	*	*	220	*	*
			June	*	*	1.58	*	*	158	*	*
			July	*	*	1.01	*	*	99	*	*
August	*	*	0.84	*	*	81	*	*			
September	*	*	1.23	*	*	123	*	*			
12027000	LINCOLN CREEK NEAR ROCHESTER, WA	19.3	October	0.66	0.42	1.08	11	7.1	18	61	0.57
			November	3.47	2.97	6.44	60	51	111	54	3.1
			December	6.69	3.24	9.94	112	54	166	67	5.8
			January	5.34	2.96	8.30	89	50	139	64	4.6
			February	6.39	4.29	10.67	117	79	196	60	6.1
			March	5.35	1.87	7.21	89	31	121	74	4.6
			April	3.14	0.64	3.78	54	11	65	83	2.8
			May	1.68	0.39	2.07	28	6.5	35	81	1.5
			June	0.62	0.05	0.66	11	0.8	11	93	0.55
			July	0.32	0.04	0.35	5.3	0.64	5.9	89	0.27
August	0.14	0.02	0.16	2.4	0.33	2.7	88	0.12			
September	0.13	0.07	0.20	2.2	1.2	3.4	65	0.11			
12027500	CHEHALIS RIVER NEAR GRAND MOUND, WA	895	October	0.59	0.58	1.17	456	452	908	50	0.51
			November	2.12	2.63	4.76	1700	2110	3820	45	1.9
			December	3.85	4.29	8.14	2990	3330	6320	47	3.3
			January	4.16	3.99	8.15	3230	3100	6330	51	3.6
			February	3.67	3.20	6.87	3130	2720	5850	53	3.5
			March	3.49	2.32	5.81	2710	1800	4510	60	3
			April	2.28	1.45	3.73	1830	1160	2990	61	2
			May	1.34	0.44	1.78	1040	345	1380	75	1.2
			June	0.75	0.26	1.01	599	212	811	74	0.67
			July	0.42	0.07	0.49	328	53	380	86	0.37
August	0.27	0.04	0.31	206	34	240	86	0.23			
September	0.30	0.13	0.43	242	101	343	71	0.27			
12029000	BLACK RIVER AT LITTLE ROCK, WA	63.7	October	0.45	0.32	0.77	25	18	43	59	0.39
			November	1.76	1.34	3.10	101	76	177	57	1.6
			December	4.12	2.09	6.22	228	116	343	66	3.6
			January	4.14	1.91	6.05	229	105	334	68	3.6
			February	4.46	2.29	6.74	270	139	409	66	4.2
			March	4.11	1.14	5.25	227	63	290	78	3.6
			April	2.46	0.39	2.84	140	22	162	86	2.2
			May	1.48	0.23	1.71	82	13	95	86	1.3
			June	0.68	0.10	0.78	39	5.5	44	88	0.61
			July	0.33	0.06	0.38	18	3	21	86	0.28
August	0.22	0.03	0.25	12	1.8	14	87	0.19			
September	0.20	0.06	0.26	11	3.4	15	76	0.17			

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12030000	ROCK CREEK AT CEDARVILLE, WA	24.8	October	0.82	0.70	1.52	18	15	33	54	0.71
			November	3.46	2.79	6.25	77	62	139	55	3.1
			December	6.00	3.35	9.35	129	72	201	64	5.2
			January	6.69	3.73	10.42	144	80	224	64	5.8
			February	5.28	2.96	8.23	125	70	194	64	5
			March	4.31	2.00	6.31	93	43	136	68	3.7
			April	2.56	1.07	3.63	57	24	81	70	2.3
			May	1.29	0.38	1.66	28	8.1	36	77	1.1
			June	0.53	0.13	0.66	12	3	15	80	0.48
			July	0.23	0.03	0.26	4.9	0.65	5.5	88	0.2
August	0.12	0.03	0.15	2.6	0.65	3.3	80	0.11			
September	0.15	0.09	0.23	3.3	1.9	5.2	63	0.13			
12030900	PORTER CREEK AT PORTER, WA	35.3	October	0.99	1.08	2.07	30	33	63	48	0.86
			November	3.83	2.32	6.15	121	73	195	62	3.4
			December	4.84	2.77	7.60	148	85	233	64	4.2
			January	5.74	3.21	8.95	176	98	274	64	5
			February	5.37	3.26	8.63	180	109	290	62	5.1
			March	4.47	1.90	6.38	137	58	195	70	3.9
			April	3.32	1.04	4.36	105	33	138	76	3
			May	2.35	0.44	2.80	72	14	86	84	2
			June	1.01	0.23	1.24	32	7.3	39	81	0.9
			July	0.68	0.11	0.79	21	3.4	24	86	0.59
August	0.46	0.05	0.51	14	1.7	16	89	0.4			
September	0.46	0.25	0.71	15	7.9	22	65	0.41			
12031000	CHEHALIS RIVER AT PORTER, WA	1294	October	0.56	0.53	1.09	626	596	1220	51	0.48
			November	1.99	2.43	4.42	2310	2820	5130	45	1.8
			December	3.78	4.05	7.83	4240	4550	8790	48	3.3
			January	4.29	4.02	8.30	4810	4510	9320	52	3.7
			February	3.81	3.05	6.86	4700	3760	8450	56	3.6
			March	3.69	2.14	5.82	4140	2400	6540	63	3.2
			April	2.42	1.47	3.89	2800	1700	4510	62	2.2
			May	1.44	0.45	1.90	1620	510	2130	76	1.2
			June	0.81	0.22	1.03	942	255	1200	79	0.73
			July	0.48	0.06	0.54	538	70	607	89	0.42
August	0.31	0.05	0.36	350	52	402	87	0.27			
September	0.34	0.13	0.47	393	152	545	72	0.3			
12032500	CLOQUALLUM RIVER AT ELMA, WA	64.9	October	1.24	0.91	2.15	70	51	121	58	1.1
			November	3.76	2.65	6.41	219	154	373	59	3.4
			December	6.25	3.64	9.88	352	205	556	63	5.4
			January	7.02	4.32	11.33	395	243	638	62	6.1
			February	5.82	3.48	9.29	359	215	574	63	5.5
			March	5.35	2.30	7.65	301	130	431	70	4.6
			April	3.49	1.23	4.72	203	71	274	74	3.1
			May	2.07	0.43	2.50	116	24	141	83	1.8
			June	1.11	0.17	1.28	64	10	74	86	0.99
			July	0.70	0.08	0.78	40	4.6	44	90	0.61
August	0.53	0.07	0.60	30	3.8	34	89	0.46			
September	0.49	0.16	0.65	29	9.4	38	75	0.44			

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12033000	CHEHALIS RIVER AT SOUTH ELMA, WA	1417	October	0.62	0.75	1.37	763	924	1690	45	0.54
			November	2.36	2.73	5.09	3000	3470	6470	46	2.1
			December	4.86	3.45	8.31	5970	4250	10200	58	4.2
			January	4.00	3.64	7.65	4920	4480	9400	52	3.5
			February	4.09	5.25	9.34	5520	7080	12600	44	3.9
			March	3.85	2.58	6.43	4730	3170	7900	60	3.3
			April	2.56	0.64	3.20	3250	808	4060	80	2.3
			May	1.63	0.49	2.12	2000	600	2600	77	1.4
			June	0.75	0.06	0.81	953	70	1020	93	0.67
			July	0.43	0.07	0.50	525	85	610	86	0.37
August	0.30	0.03	0.33	367	37	404	91	0.26			
September	0.26	0.09	0.34	324	109	433	75	0.23			
12034200	EAST FORK SATSOP RIVER NEAR ELMA, WA	65.9	October	2.09	0.59	2.68	119	33	153	78	1.8
			November	4.72	2.60	7.32	279	154	432	64	4.2
			December	8.22	3.64	11.87	470	208	678	69	7.1
			January	10.15	4.32	14.48	580	247	827	70	8.8
			February	8.11	2.59	10.70	509	162	671	76	7.7
			March	7.71	2.27	9.98	441	130	570	77	6.7
			April	5.58	1.35	6.93	330	80	409	81	5
			May	4.13	0.39	4.52	236	22	258	91	3.6
			June	2.72	0.12	2.84	161	7.3	168	96	2.4
			July	2.07	0.05	2.12	118	2.7	121	98	1.8
August	1.70	0.04	1.73	97	2.2	99	98	1.5			
September	1.47	0.10	1.56	87	5.6	92	94	1.3			
12035000	SATSOP RIVER NEAR SATSOP, WA	299	October	2.20	2.18	4.38	571	564	1140	50	1.9
			November	5.64	5.39	11.04	1510	1450	2960	51	5.1
			December	8.51	7.80	16.31	2210	2020	4230	52	7.4
			January	8.56	7.43	15.99	2220	1930	4150	54	7.4
			February	7.41	6.02	13.44	2110	1710	3820	55	7.1
			March	7.40	4.25	11.65	1920	1100	3020	63	6.4
			April	5.43	2.43	7.86	1450	652	2110	69	4.9
			May	3.44	0.98	4.41	891	253	1140	78	3
			June	2.16	0.44	2.60	579	117	696	83	1.9
			July	1.52	0.23	1.75	395	60	454	87	1.3
August	1.13	0.13	1.26	294	33	328	90	0.98			
September	1.13	0.52	1.65	303	139	442	69	1			
12035400	WYNOOCHEE RIVER NEAR GRISDALE, WA	41.3	October	*	*	12.76	*	*	457	*	*
			November	*	*	22.66	*	*	839	*	*
			December	*	*	26.89	*	*	963	*	*
			January	*	*	23.64	*	*	847	*	*
			February	*	*	19.37	*	*	762	*	*
			March	*	*	15.57	*	*	558	*	*
			April	*	*	9.36	*	*	347	*	*
			May	*	*	10.56	*	*	378	*	*
			June	*	*	9.13	*	*	338	*	*
			July	*	*	7.42	*	*	266	*	*
August	*	*	6.02	*	*	216	*	*			
September	*	*	8.00	*	*	296	*	*			

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12035450	BIG CREEK NEAR GRISDALE, WA	9.57	October	4.92	4.19	9.12	41	35	76	54	4.3
			November	13.26	11.19	24.44	114	96	210	54	12
			December	16.76	11.17	27.93	139	93	232	60	15
			January	13.56	9.71	23.27	113	81	193	58	12
			February	13.54	8.69	22.23	123	79	203	61	13
			March	11.43	6.64	18.07	95	55	150	63	9.9
			April	8.78	3.88	12.66	75	33	109	69	7.9
			May	5.43	2.21	7.65	45	18	63	71	4.7
			June	3.88	0.90	4.78	33	7.7	41	81	3.5
			July	2.43	0.76	3.19	20	6.3	26	76	2.1
	August	1.77	0.55	2.32	15	4.6	19	76	1.5		
	September	2.31	1.32	3.63	20	11	31	64	2.1		
12035500	WYNOOCHEE RIVER AT OXBOW, NEAR ABERDEEN, WA	70.7	October	5.50	4.78	10.28	337	293	631	54	4.8
			November	10.26	7.38	17.64	650	468	1120	58	9.2
			December	14.10	10.11	24.20	864	620	1480	58	12
			January	12.54	9.19	21.73	769	563	1330	58	11
			February	10.40	7.22	17.63	700	486	1190	59	9.9
			March	11.10	4.83	15.93	681	296	977	70	9.6
			April	9.76	3.02	12.78	619	191	810	76	8.8
			May	8.18	2.59	10.77	502	159	660	76	7.1
			June	5.78	1.17	6.95	366	74	440	83	5.2
			July	3.61	0.50	4.11	221	31	252	88	3.1
	August	2.29	0.26	2.55	140	16	156	90	2		
	September	2.28	1.18	3.46	145	75	219	66	2		
12036000	WYNOOCHEE RIVER ABOVE SAVE CREEK, NEAR ABERDEEN, WA	74.1	October	*	*	10.53	*	*	677	*	*
			November	*	*	20.94	*	*	1390	*	*
			December	*	*	25.13	*	*	1620	*	*
			January	*	*	23.59	*	*	1520	*	*
			February	*	*	19.74	*	*	1390	*	*
			March	*	*	15.57	*	*	1000	*	*
			April	*	*	11.40	*	*	757	*	*
			May	*	*	9.33	*	*	600	*	*
			June	*	*	7.00	*	*	465	*	*
			July	*	*	5.29	*	*	340	*	*
	August	*	*	4.09	*	*	263	*	*		
	September	*	*	5.34	*	*	355	*	*		
12036500	WYNOOCHEE RIVER NEAR MONTESANO, WA	112	October	5.09	4.49	9.59	495	437	931	53	4.4
			November	8.49	5.16	13.64	852	518	1370	62	7.6
			December	12.27	7.61	19.88	1190	740	1930	62	11
			January	12.78	6.86	19.64	1240	667	1910	65	11
			February	10.35	7.54	17.90	1100	804	1910	58	9.9
			March	8.28	2.41	10.69	804	234	1040	77	7.2
			April	7.05	2.10	9.14	707	210	918	77	6.3
			May	6.16	1.41	7.57	598	137	735	81	5.3
			June	3.87	0.72	4.59	388	72	460	84	3.5
			July	2.40	0.08	2.48	234	7.7	241	97	2.1
	August	1.58	0.10	1.68	153	9.9	163	94	1.4		
	September	1.66	1.01	2.67	167	101	268	62	1.5		

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12036650	ANDERSON CREEK NEAR MONTESANO, WA	2.72	October	1.85	1.46	3.31	4.4	3.4	7.8	56	1.6
			November	6.46	4.78	11.24	16	12	27	57	5.8
			December	9.51	5.93	15.44	22	14	36	62	8.2
			January	6.30	5.04	11.34	15	12	27	56	5.5
			February	6.24	4.90	11.14	16	13	29	56	5.9
			March	5.24	3.27	8.51	12	7.7	20	62	4.5
			April	3.48	1.82	5.30	8.5	4.4	13	66	3.1
			May	1.91	0.93	2.84	4.5	2.2	6.7	67	1.7
			June	1.06	0.39	1.45	2.6	0.96	3.5	73	0.95
			July	0.41	0.31	0.72	0.96	0.73	1.7	57	0.35
			August	0.13	0.12	0.25	0.3	0.29	0.59	51	0.11
			September	0.52	0.59	1.12	1.3	1.4	2.7	47	0.47
12037400	WYNOOCHEE RIVER ABOVE BLACK CREEK NEAR MONTESANO, WA	155	October	*	*	6.15	*	*	827	*	*
			November	*	*	15.33	*	*	2130	*	*
			December	*	*	20.00	*	*	2690	*	*
			January	*	*	18.52	*	*	2490	*	*
			February	*	*	15.49	*	*	2290	*	*
			March	*	*	12.75	*	*	1710	*	*
			April	*	*	8.26	*	*	1150	*	*
			May	*	*	5.50	*	*	739	*	*
			June	*	*	3.47	*	*	483	*	*
			July	*	*	2.22	*	*	298	*	*
			August	*	*	1.42	*	*	191	*	*
			September	*	*	2.41	*	*	335	*	*
12037500	WYNOOCHEE RIV BELOW BLACK CREEK NEAR MONTESANO, WA	180	October	2.35	2.61	4.95	366	407	773	47	2
			November	7.90	4.24	12.14	1270	684	1960	65	7.1
			December	10.37	6.06	16.43	1620	946	2570	63	9
			January	8.93	5.17	14.10	1390	807	2200	63	7.7
			February	8.24	6.52	14.76	1410	1120	2530	56	7.8
			March	6.92	3.74	10.66	1080	583	1660	65	6
			April	6.51	2.56	9.07	1050	413	1460	72	5.8
			May	5.35	1.59	6.94	836	248	1080	77	4.6
			June	2.64	0.34	2.97	425	54	480	89	2.4
			July	1.55	0.39	1.94	242	61	303	80	1.3
			August	0.88	0.07	0.95	138	11	148	93	0.77
			September	0.90	0.58	1.47	145	93	238	61	0.8
12039000	HUMPTULIPS RIVER NEAR HUMPTULIPS, WA	130	October	4.96	4.51	9.47	559	509	1070	52	4.3
			November	9.60	8.29	17.89	1120	966	2090	54	8.6
			December	13.48	10.91	24.39	1520	1230	2750	55	12
			January	12.87	9.84	22.71	1450	1110	2560	57	11
			February	11.17	7.43	18.61	1380	920	2300	60	11
			March	10.09	6.00	16.09	1140	677	1810	63	8.7
			April	8.04	3.14	11.18	936	366	1300	72	7.2
			May	5.58	1.79	7.38	629	202	832	76	4.8
			June	3.41	0.67	4.09	398	79	476	84	3.1
			July	2.25	0.66	2.90	253	74	327	77	1.9
			August	1.72	0.46	2.18	194	52	246	79	1.5
			September	2.18	1.38	3.56	254	161	415	61	2

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12039220	MOCLIPS RIVER AT MOCLIPS, WA	35	October	2.49	3.82	6.31	76	116	192	40	2.2
			November	5.20	7.77	12.97	163	244	407	40	4.7
			December	5.85	10.32	16.16	177	313	491	36	5.1
			January	3.78	5.24	9.02	115	159	274	42	3.3
			February	4.64	6.01	10.64	154	200	354	44	4.4
			March	3.89	4.26	8.15	118	129	247	48	3.4
			April	2.96	2.26	5.22	93	71	164	57	2.7
			May	1.58	1.55	3.13	48	47	95	51	1.4
			June	1.25	0.67	1.92	39	21	60	65	1.1
			July	0.57	0.41	0.98	17	12	30	58	0.49
August	0.58	0.51	1.09	18	15	33	54	0.51			
September	1.12	1.52	2.64	35	48	83	42	1			
12039300	NORTH FORK QUINALT RIVER NEAR AMANDA PARK, WA	74.1	October	5.51	5.83	11.34	354	374	729	49	4.8
			November	9.22	8.39	17.61	612	557	1170	52	8.3
			December	10.95	10.47	21.42	704	673	1380	51	9.5
			January	8.33	7.80	16.12	535	501	1040	52	7.2
			February	7.63	6.44	14.07	538	454	992	54	7.3
			March	7.80	4.02	11.82	501	259	760	66	6.8
			April	7.57	2.28	9.86	503	152	655	77	6.8
			May	11.82	3.77	15.59	760	242	1000	76	10
			June	14.88	2.78	17.67	989	185	1170	84	13
			July	10.30	2.06	12.36	662	132	794	83	8.9
August	5.03	0.86	5.89	323	55	379	85	4.4			
September	3.48	2.07	5.55	231	138	369	63	3.1			
12039500	QUINALT RIVER AT QUINALT LAKE, WA	264	October	5.28	4.77	10.05	1210	1090	2300	53	4.6
			November	9.50	7.99	17.48	2250	1890	4140	54	8.5
			December	11.83	9.54	21.37	2710	2190	4890	55	10
			January	10.59	7.99	18.59	2430	1830	4260	57	9.2
			February	8.67	6.55	15.23	2180	1650	3830	57	8.3
			March	8.50	4.42	12.92	1950	1010	2960	66	7.4
			April	8.51	2.81	11.32	2010	665	2680	75	7.6
			May	9.89	2.51	12.40	2260	574	2840	80	8.6
			June	9.69	1.87	11.57	2290	443	2740	84	8.7
			July	6.78	1.05	7.83	1550	240	1790	87	5.9
August	3.61	0.43	4.04	827	97	924	89	3.1			
September	2.89	1.43	4.32	684	339	1020	67	2.6			
12039520	RAFT RIVER BELOW RAINY CREEK NEAR QUEETS, WA	76	October	2.50	4.20	6.71	165	277	442	37	2.2
			November	5.25	9.44	14.69	357	643	1000	36	4.7
			December	6.30	13.54	19.84	415	893	1310	32	5.5
			January	4.63	7.49	12.12	305	493	799	38	4
			February	5.06	9.77	14.83	366	707	1070	34	4.8
			March	4.55	6.22	10.77	300	410	710	42	3.9
			April	3.55	2.31	5.87	242	158	400	61	3.2
			May	2.22	3.09	5.31	146	204	350	42	1.9
			June	1.54	0.84	2.38	105	57	162	65	1.4
			July	1.21	1.11	2.32	80	73	153	52	1
August	1.04	1.17	2.21	68	77	145	47	0.9			
September	1.46	2.20	3.66	100	150	249	40	1.3			

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12040000	CLEARWATER RIVER NEAR CLEARWATER, WA	140	October	3.83	5.79	9.62	465	702	1170	40	3.3
			November	8.52	7.25	15.77	1070	909	1980	54	7.6
			December	10.84	9.30	20.14	1320	1130	2450	54	9.4
			January	8.06	7.65	15.70	978	929	1910	51	7
			February	7.64	7.32	14.96	1020	976	1990	51	7.3
			March	7.16	4.99	12.15	869	606	1480	59	6.2
			April	5.46	3.26	8.73	686	410	1100	63	4.9
			May	4.16	2.36	6.52	505	287	792	64	3.6
			June	2.16	0.73	2.89	271	92	363	75	1.9
			July	1.60	0.45	2.05	194	55	249	78	1.4
	August	1.12	0.23	1.35	136	27	163	83	0.97		
	September	1.51	1.04	2.55	190	131	320	59	1.4		
12040500	QUEETS RIVER NEAR CLEARWATER, WA	445	October	3.87	5.34	9.20	1490	2060	3550	42	3.4
			November	8.07	10.75	18.82	3220	4290	7510	43	7.2
			December	9.76	11.70	21.46	3770	4520	8280	45	8.5
			January	8.84	10.40	19.24	3410	4010	7430	46	7.7
			February	7.44	8.71	16.15	3150	3690	6840	46	7.1
			March	7.81	6.04	13.85	3010	2330	5350	56	6.8
			April	6.75	3.77	10.52	2690	1500	4200	64	6.1
			May	5.78	2.48	8.26	2230	957	3190	70	5
			June	4.66	1.42	6.07	1860	565	2420	77	4.2
			July	3.18	1.02	4.20	1230	394	1620	76	2.8
	August	1.96	0.67	2.63	757	257	1010	75	1.7		
	September	1.98	1.60	3.58	789	637	1430	55	1.8		
12040700	HOH RIVER BELOW MT. TOM CREEK NEAR FORKS, WA	97.8	October	4.79	4.18	8.97	406	355	761	53	4.2
			November	7.39	4.58	11.97	648	402	1050	62	6.6
			December	6.94	2.76	9.70	589	234	823	72	6
			January	6.77	4.24	11.00	574	359	933	62	5.9
			February	5.52	3.06	8.58	514	285	799	64	5.3
			March	6.60	3.82	10.42	560	324	884	63	5.7
			April	7.35	1.79	9.13	644	157	801	80	6.6
			May	9.63	3.14	12.76	817	266	1080	75	8.4
			June	10.80	2.43	13.23	946	213	1160	82	9.7
			July	8.94	1.45	10.39	758	123	881	86	7.8
	August	6.39	0.86	7.25	542	73	615	88	5.5		
	September	3.96	1.32	5.28	347	116	463	75	3.6		
12040900	SOUTH FORK HOH RIVER NEAR FORKS, WA.	50.4	October	5.03	4.44	9.47	220	194	414	53	4.4
			November	9.82	6.87	16.69	444	310	754	59	8.8
			December	9.25	5.26	14.51	404	230	634	64	8
			January	9.85	8.41	18.25	430	368	798	54	8.5
			February	7.99	5.33	13.32	383	256	639	60	7.6
			March	9.47	6.65	16.12	414	291	705	59	8.2
			April	9.26	2.90	12.16	418	131	549	76	8.3
			May	9.90	3.47	13.37	433	152	585	74	8.6
			June	8.68	1.71	10.39	392	77	469	84	7.8
			July	6.29	1.23	7.52	275	54	329	84	5.5
	August	4.13	0.58	4.72	181	25	206	88	3.6		
	September	3.07	1.01	4.08	139	45	184	75	2.8		



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12041000	HOH RIVER NEAR FORKS, WA.	208	October	6.07	4.25	10.32	1100	766	1860	59	5.3
			November	8.98	5.76	14.74	1670	1070	2750	61	8
			December	11.06	6.25	17.31	2000	1130	3120	64	9.6
			January	9.91	5.71	15.63	1790	1030	2820	63	8.6
			February	7.85	4.42	12.28	1560	876	2430	64	7.5
			March	7.57	2.58	10.15	1370	465	1830	75	6.6
			April	7.42	1.99	9.41	1380	370	1750	79	6.7
			May	8.65	1.95	10.60	1560	351	1910	82	7.5
			June	8.88	1.88	10.76	1660	351	2010	83	8
			July	7.88	1.34	9.22	1420	242	1660	85	6.8
	August	5.57	0.75	6.32	1010	135	1140	88	4.8		
	September	4.13	1.55	5.68	770	290	1060	73	3.7		
12041200	HOH RIVER AT U.S. HIGHWAY 101 NEAR FORKS, WA.	253	October	4.76	4.81	9.57	1040	1060	2100	50	4.1
			November	8.33	8.95	17.28	1890	2030	3920	48	7.5
			December	9.76	9.20	18.96	2140	2020	4160	51	8.5
			January	9.06	8.14	17.20	1990	1790	3770	53	7.9
			February	7.64	6.56	14.21	1840	1580	3420	54	7.3
			March	7.46	4.84	12.30	1640	1060	2700	61	6.5
			April	6.80	2.66	9.45	1540	603	2140	72	6.1
			May	7.26	2.01	9.27	1590	442	2030	78	6.3
			June	7.56	1.61	9.17	1710	364	2080	82	6.8
			July	6.35	1.35	7.70	1390	297	1690	82	5.5
	August	4.58	1.03	5.61	1000	226	1230	82	4		
	September	3.57	1.67	5.24	809	378	1190	68	3.2		
12041500	SOLEDUCK RIVER NEAR FAIRHOLM, WA.	83.8	October	3.29	3.05	6.34	239	222	460	52	2.9
			November	6.19	5.39	11.58	465	405	870	53	5.5
			December	9.25	7.22	16.47	672	525	1200	56	8
			January	8.16	5.98	14.14	593	435	1030	58	7.1
			February	6.42	4.31	10.73	512	344	856	60	6.1
			March	5.81	2.40	8.21	422	174	597	71	5
			April	6.00	1.92	7.92	451	144	595	76	5.4
			May	7.07	1.92	8.99	514	139	653	79	6.1
			June	6.43	1.18	7.61	483	89	572	84	5.8
			July	4.11	0.45	4.56	299	33	332	90	3.6
	August	2.09	0.16	2.25	152	12	163	93	1.8		
	September	1.62	0.77	2.39	122	58	179	68	1.5		
12042000	SOLEDUCK R. AT SNYDER RANGER STATION NEAR BEAVER, WA.	116	October	2.90	2.22	5.12	291	223	515	57	2.5
			November	5.80	4.66	10.46	603	485	1090	55	5.2
			December	7.37	6.28	13.64	741	631	1370	54	6.4
			January	8.06	5.37	13.43	811	540	1350	60	7
			February	5.04	5.23	10.26	556	577	1130	49	4.8
			March	3.97	1.27	5.24	399	127	527	76	3.4
			April	3.99	0.93	4.93	415	97	512	81	3.6
			May	5.19	1.49	6.68	522	150	672	78	4.5
			June	4.12	0.64	4.76	429	66	495	87	3.7
			July	2.16	0.13	2.29	218	13	230	94	1.9
	August	0.89	0.06	0.95	89	6.1	95	94	0.77		
	September	0.79	0.61	1.40	82	63	145	57	0.71		

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean	Mean	Mean	Mean	Mean	Mean BF	Mean	
				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12042800	BOGACHIEL RIVER NEAR FORKS, WA.	111	October	3.97	6.07	10.04	382	585	967	40	3.4
			November	8.16	7.46	15.61	811	742	1550	52	7.3
			December	12.22	14.01	26.23	1180	1350	2530	47	11
			January	7.15	5.71	12.86	688	550	1240	56	6.2
			February	8.56	8.63	17.18	904	912	1820	50	8.1
			March	6.97	5.62	12.59	671	541	1210	55	6
			April	5.98	1.85	7.83	595	184	779	76	5.4
			May	4.81	2.18	6.99	463	210	673	69	4.2
			June	3.45	0.53	3.98	343	53	396	87	3.1
			July	2.07	0.57	2.63	199	54	254	79	1.8
August	1.56	0.89	2.45	150	86	236	64	1.4			
September	2.42	2.18	4.60	241	217	458	53	2.2			
12043000	CALAWAH RIVER NEAR FORKS, WA.	129	October	3.08	3.51	6.58	344	392	736	47	2.7
			November	7.89	8.13	16.01	912	939	1850	49	7.1
			December	9.12	8.34	17.46	1020	933	1950	52	7.9
			January	7.71	8.20	15.91	863	917	1780	48	6.7
			February	6.89	7.19	14.08	846	882	1730	49	6.6
			March	7.15	6.07	13.22	800	679	1480	54	6.2
			April	5.77	3.05	8.82	667	353	1020	65	5.2
			May	4.03	1.81	5.85	451	203	654	69	3.5
			June	2.58	1.11	3.69	299	128	427	70	2.3
			July	1.48	0.45	1.93	166	50	216	77	1.3
August	0.99	0.46	1.45	111	51	162	68	0.86			
September	1.05	0.90	1.95	122	103	225	54	0.94			
12043080	EAST FORK DICKEY RIVER NEAR LA PUSH, WA.	39.8	October	4.02	5.53	9.54	139	191	329	42	3.5
			November	6.68	6.00	12.67	238	214	452	53	6
			December	7.97	9.22	17.19	275	318	593	46	6.9
			January	9.55	11.56	21.10	330	399	729	45	8.3
			February	5.98	6.61	12.60	227	251	477	48	5.7
			March	5.10	5.11	10.20	176	176	352	50	4.4
			April	3.01	1.95	4.96	107	69	177	61	2.7
			May	1.83	1.01	2.84	63	35	98	64	1.6
			June	0.92	0.30	1.22	33	11	44	75	0.83
			July	0.70	0.49	1.20	24	17	41	59	0.61
August	0.57	0.21	0.78	20	7.3	27	73	0.5			
September	0.77	0.98	1.75	27	35	62	44	0.69			
12043100	DICKEY RIVER NEAR LA PUSH, WA.	86.3	October	3.12	3.78	6.90	234	283	517	45	2.7
			November	5.51	5.05	10.55	426	390	816	52	4.9
			December	8.16	8.27	16.43	611	619	1230	50	7.1
			January	6.75	7.70	14.45	505	576	1080	47	5.9
			February	5.48	5.57	11.05	450	457	908	50	5.2
			March	4.97	4.62	9.59	372	346	718	52	4.3
			April	3.19	2.52	5.71	247	195	441	56	2.9
			May	1.61	1.06	2.67	121	79	200	60	1.4
			June	0.93	0.41	1.34	72	32	104	70	0.83
			July	0.60	0.62	1.23	45	47	92	49	0.52
August	0.42	0.20	0.62	32	15	46	68	0.37			
September	1.04	1.51	2.55	81	116	197	41	0.93			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12043163	SOOES RIVER BELOW MILLER CREEK NEAR OZETTE, WA.	32	October	3.07	3.05	6.12	85	85	170	50	2.7
			November	7.75	5.88	13.63	222	169	391	57	6.9
			December	7.99	6.02	14.01	222	167	389	57	6.9
			January	6.53	5.30	11.82	181	147	328	55	5.7
			February	6.38	6.98	13.36	194	212	407	48	6.1
			March	5.36	3.59	8.95	149	100	248	60	4.7
			April	4.16	2.03	6.19	119	58	178	67	3.7
			May	2.46	1.46	3.92	68	41	109	63	2.1
			June	1.62	0.52	2.15	47	15	62	76	1.5
			July	1.04	0.91	1.95	29	25	54	53	0.9
August	0.76	0.33	1.09	21	9.2	30	70	0.66			
September	1.36	1.24	2.60	39	36	75	52	1.2			
12043300	HOKO RIVER NEAR SEKIU, WA.	51.2	October	3.45	3.60	7.05	153	160	313	49	3
			November	7.86	7.32	15.18	361	336	697	52	7
			December	10.28	8.91	19.20	457	396	852	54	8.9
			January	9.45	11.90	21.35	419	528	948	44	8.2
			February	7.23	6.39	13.62	352	312	664	53	6.9
			March	6.82	5.79	12.61	303	257	560	54	5.9
			April	4.68	2.76	7.45	215	127	342	63	4.2
			May	2.75	1.26	4.01	122	56	178	69	2.4
			June	1.58	0.73	2.31	73	34	106	68	1.4
			July	0.98	0.57	1.55	44	25	69	63	0.85
August	0.62	0.36	0.98	28	16	43	64	0.54			
September	0.77	0.86	1.63	35	40	75	47	0.69			
12043430	EAST TWIN RIVER NEAR PYSHT, WA.	14	October	1.98	1.14	3.12	24	14	38	64	1.7
			November	4.85	2.84	7.69	61	36	96	63	4.3
			December	6.58	4.55	11.13	80	55	135	59	5.7
			January	8.15	5.03	13.17	99	61	160	62	7.1
			February	5.90	2.77	8.66	79	37	115	68	5.6
			March	5.75	2.66	8.41	70	32	102	68	5
			April	3.73	1.27	5.00	47	16	63	75	3.3
			May	2.32	0.39	2.71	28	4.7	33	86	2
			June	1.06	0.08	1.13	13	0.95	14	93	0.95
			July	0.57	0.10	0.67	6.9	1.2	8.1	85	0.49
August	0.40	0.02	0.42	4.9	0.27	5.1	95	0.35			
September	0.46	0.18	0.64	5.7	2.2	8	72	0.41			
12044000	LYRE RIVER AT PIEDMONT, WA.	48.6	October	2.43	0.36	2.79	103	15	118	87	2.1
			November	3.84	0.72	4.55	167	31	198	84	3.4
			December	6.46	1.45	7.91	272	61	334	82	5.6
			January	9.43	0.77	10.20	398	33	430	92	8.2
			February	7.88	1.28	9.16	364	59	424	86	7.5
			March	6.47	0.40	6.87	273	17	290	94	5.6
			April	4.75	0.20	4.95	207	8.5	216	96	4.3
			May	4.66	0.14	4.80	196	6	202	97	4
			June	4.00	0.19	4.19	174	8.3	182	95	3.6
			July	2.37	0.29	2.66	100	12	112	89	2.1
August	1.53	0.13	1.65	64	5.4	70	92	1.3			
September	1.21	0.14	1.35	52	6.1	59	90	1.1			

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12044900	ELWHA RIVER ABOVE LAKE MILLS NEAR PORT ANGELES, WA.	198	October	3.76	2.18	5.95	646	375	1020	63	3.3
			November	5.88	3.87	9.75	1040	687	1730	60	5.3
			December	6.23	5.85	12.08	1070	1000	2070	52	5.4
			January	7.03	5.43	12.46	1210	933	2140	56	6.1
			February	6.33	4.43	10.76	1190	836	2030	59	6
			March	5.67	3.38	9.04	973	580	1550	63	4.9
			April	5.29	1.40	6.69	939	249	1190	79	4.7
			May	8.05	1.75	9.80	1380	301	1680	82	7
			June	7.79	1.05	8.84	1380	186	1570	88	7
			July	5.71	0.67	6.38	981	115	1100	90	5
			August	2.86	0.22	3.08	492	38	529	93	2.5
			September	2.07	0.62	2.69	367	110	477	77	1.9
12045500	ELWHA RIVER AT MCDONALD BR NEAR PRT ANGELES, WA.	269	October	*	*	3.97	*	*	926	*	*
			November	*	*	6.89	*	*	1660	*	*
			December	*	*	8.89	*	*	2080	*	*
			January	*	*	8.09	*	*	1890	*	*
			February	*	*	6.85	*	*	1750	*	*
			March	*	*	5.76	*	*	1340	*	*
			April	*	*	5.48	*	*	1320	*	*
			May	*	*	8.33	*	*	1940	*	*
			June	*	*	9.25	*	*	2230	*	*
			July	*	*	6.46	*	*	1510	*	*
			August	*	*	3.49	*	*	815	*	*
			September	*	*	2.51	*	*	605	*	*
12047300	MORSE CREEK NEAR PORT ANGELES, WA.	46.6	October	0.95	0.49	1.44	38	20	58	66	0.82
			November	1.67	1.10	2.77	70	46	116	60	1.5
			December	2.91	2.17	5.08	117	88	205	57	2.5
			January	2.83	2.32	5.16	115	94	208	55	2.5
			February	2.49	0.86	3.36	111	38	149	74	2.4
			March	2.51	0.93	3.44	101	38	139	73	2.2
			April	1.94	0.37	2.31	81	16	96	84	1.7
			May	3.21	0.97	4.18	130	39	169	77	2.8
			June	3.72	0.84	4.55	155	35	190	82	3.3
			July	2.32	0.25	2.57	94	9.9	104	90	2
			August	1.17	0.10	1.27	47	4.2	51	92	1
			September	0.74	0.09	0.83	31	3.8	35	89	0.66
12047500	SIEBERT CREEK NEAR PORT ANGELES, WA.	15.5	October	0.35	0.15	0.50	4.7	2.1	6.7	69	0.3
			November	0.61	0.86	1.47	8.5	12	20	42	0.55
			December	1.18	0.85	2.04	16	11	27	58	1
			January	1.87	1.38	3.24	25	19	44	58	1.6
			February	1.71	0.97	2.68	25	14	40	64	1.6
			March	1.22	0.44	1.66	16	5.9	22	73	1.1
			April	0.92	0.19	1.12	13	2.7	16	83	0.83
			May	0.71	0.11	0.82	9.6	1.5	11	87	0.62
			June	0.49	0.09	0.57	6.7	1.2	8	85	0.43
			July	0.35	0.04	0.39	4.7	0.5	5.2	90	0.31
			August	0.24	0.03	0.26	3.2	0.34	3.5	90	0.21
			September	0.22	0.03	0.25	3.1	0.46	3.5	87	0.2

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12048000	DUNGENESS RIVER NEAR SEQUIM, WA.	156	October	1.12	0.41	1.54	152	56	208	73	0.97
			November	1.60	0.85	2.45	223	119	342	65	1.4
			December	2.00	1.16	3.16	271	157	428	63	1.7
			January	1.89	1.04	2.93	256	140	397	65	1.6
			February	1.80	0.82	2.62	267	122	389	69	1.7
			March	1.75	0.42	2.17	236	57	293	81	1.5
			April	*	*	2.32	*	*	324	*	*
			May	*	*	4.16	*	*	563	*	*
			June	*	*	4.96	*	*	693	*	*
			July	*	*	3.60	*	*	487	*	*
			August	1.79	0.14	1.92	242	18	260	93	1.5
			September	1.09	0.14	1.23	153	20	173	88	0.98
12050500	SNOW CREEK NEAR MAYNARD, WA.	11.2	October	0.43	0.15	0.58	4.1	1.4	5.6	74	0.37
			November	0.84	0.35	1.19	8.4	3.5	12	71	0.75
			December	1.46	1.00	2.46	14	9.7	24	59	1.3
			January	1.96	1.35	3.31	19	13	32	59	1.7
			February	1.86	0.70	2.57	20	7.5	27	73	1.8
			March	1.87	0.62	2.49	18	6	24	75	1.6
			April	1.82	0.40	2.22	18	4	22	82	1.6
			May	1.63	0.36	1.99	16	3.5	19	82	1.4
			June	0.99	0.31	1.29	9.9	3.1	13	76	0.88
			July	0.64	0.16	0.80	6.2	1.5	7.7	81	0.56
			August	0.33	0.05	0.38	3.2	0.45	3.7	88	0.29
			September	0.30	0.05	0.35	3	0.45	3.5	87	0.27
12051500	CHIMACUM CREEK NEAR CHIMACUM, WA.	13.8	October	0.41	0.08	0.49	5	0.92	5.9	84	0.36
			November	0.68	0.22	0.91	8.5	2.7	11	76	0.61
			December	1.46	0.77	2.22	17	9.2	27	65	1.3
			January	1.82	1.18	3.00	22	14	36	61	1.6
			February	1.57	0.92	2.49	21	12	33	63	1.5
			March	1.59	0.62	2.21	19	7.4	26	72	1.4
			April	1.00	0.21	1.22	12	2.6	15	83	0.9
			May	0.54	0.12	0.66	6.4	1.4	7.8	82	0.46
			June	0.49	0.12	0.62	6.1	1.5	7.6	80	0.44
			July	0.37	0.06	0.43	4.4	0.69	5.1	86	0.32
			August	0.28	0.02	0.30	3.3	0.29	3.6	92	0.24
			September	0.29	0.03	0.32	3.6	0.35	3.9	91	0.26
12052000	LITTLE QUILCENE RIVER NEAR QUILCENE, WA.	23.7	October	0.86	0.21	1.07	18	4.3	22	81	0.75
			November	1.59	0.72	2.31	34	15	49	69	1.4
			December	2.61	0.87	3.48	54	18	71	75	2.3
			January	3.31	0.95	4.26	68	20	88	78	2.9
			February	2.96	0.81	3.76	67	18	85	79	2.8
			March	2.57	0.47	3.03	53	9.6	62	85	2.2
			April	2.66	0.47	3.13	56	10	66	85	2.4
			May	2.61	0.30	2.91	54	6.2	60	90	2.3
			June	2.27	0.46	2.72	48	9.7	58	83	2
			July	1.59	0.15	1.74	33	3.1	36	91	1.4
			August	0.90	0.07	0.98	19	1.5	20	92	0.78
			September	0.65	0.05	0.70	14	0.96	15	94	0.59

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12052210	BIG QUILCENE RIVER BELOW DIVERSION NEAR QUILCENE, WA.	49.4	October	1.33	1.19	2.51	57	51	108	53	1.1
			November	1.90	1.36	3.26	84	60	144	58	1.7
			December	2.42	3.36	5.78	104	144	247	42	2.1
			January	3.04	3.88	6.92	130	166	297	44	2.6
			February	2.67	2.52	5.19	125	119	244	51	2.5
			March	2.91	2.14	5.05	125	92	217	58	2.5
			April	3.00	0.97	3.97	133	43	176	76	2.7
			May	3.68	0.78	4.46	158	33	191	83	3.2
			June	2.97	0.28	3.25	131	13	144	91	2.7
			July	2.10	0.20	2.30	90	8.6	99	91	1.8
August	1.02	0.07	1.09	44	3.2	47	93	0.88			
September	0.65	0.22	0.87	29	9.8	39	75	0.58			
12053000	DOSEWALLIPS RIVER NEAR BRINNON, WA.	93.5	October	2.04	1.09	3.12	165	88	253	65	1.8
			November	3.26	1.65	4.91	273	138	411	66	2.9
			December	4.44	2.36	6.80	360	191	552	65	3.9
			January	3.96	1.95	5.90	321	158	479	67	3.4
			February	3.24	1.25	4.50	289	111	400	72	3.1
			March	*	*	4.42	*	*	358	*	*
			April	*	*	5.24	*	*	439	*	*
			May	*	*	9.16	*	*	743	*	*
			June	*	*	9.71	*	*	814	*	*
			July	*	*	6.24	*	*	506	*	*
August	2.83	0.19	3.02	229	15	245	94	2.5			
September	1.80	0.34	2.14	151	29	179	84	1.6			
12054000	DUCKABUSH RIVER NEAR BRINNON, WA.	66.5	October	2.56	2.40	4.96	148	138	286	52	2.2
			November	4.72	3.94	8.66	281	235	516	55	4.2
			December	5.93	4.38	10.31	342	253	595	58	5.1
			January	5.09	3.68	8.77	294	212	506	58	4.4
			February	4.67	3.27	7.94	296	207	502	59	4.4
			March	4.59	2.12	6.71	265	122	387	68	4
			April	5.05	1.63	6.68	301	97	398	76	4.5
			May	7.53	2.10	9.64	434	121	556	78	6.5
			June	8.00	1.46	9.46	477	87	564	85	7.2
			July	5.34	0.77	6.11	308	44	353	87	4.6
August	2.60	0.31	2.91	150	18	168	89	2.3			
September	1.66	0.65	2.30	99	38	137	72	1.5			
12054500	HAMMA HAMMA RIVER NEAR ELDON, WA.	51.3	October	3.70	2.18	5.88	165	97	262	63	3.2
			November	6.38	4.16	10.54	293	191	485	61	5.7
			December	7.13	4.66	11.79	317	207	525	60	6.2
			January	6.88	4.32	11.20	306	192	498	61	6
			February	6.25	3.37	9.62	305	165	470	65	6
			March	5.27	1.87	7.14	234	83	318	74	4.6
			April	6.27	1.53	7.80	288	71	359	80	5.6
			May	9.09	2.14	11.23	405	95	500	81	7.9
			June	8.97	1.31	10.27	412	60	472	87	8
			July	5.34	0.59	5.93	238	26	264	90	4.6
August	2.63	0.15	2.78	117	6.6	124	95	2.3			
September	1.69	0.48	2.17	78	22	100	78	1.5			

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12054600	JEFFERSON CREEK NEAR ELDON, WA.	21.6	October	3.46	2.66	6.12	65	50	115	57	3
			November	7.31	4.53	11.84	141	88	229	62	6.5
			December	9.87	5.72	15.59	185	107	292	63	8.6
			January	9.79	5.90	15.69	183	111	294	62	8.5
			February	8.00	4.30	12.31	165	88	253	65	7.6
			March	6.60	3.10	9.69	124	58	182	68	5.7
			April	6.43	1.61	8.04	124	31	156	80	5.8
			May	5.97	1.06	7.03	112	20	132	85	5.2
			June	4.55	0.55	5.10	88	11	99	89	4.1
			July	2.36	0.19	2.56	44	3.6	48	92	2
	August	1.27	0.10	1.37	24	1.9	26	92	1.1		
	September	1.14	0.63	1.78	22	12	34	64	1		
12055000	HAMMA HAMMA RIVER NEAR HOODSPORT, WA.	83.5	October	3.22	1.66	4.87	233	120	353	66	2.8
			November	6.03	4.07	10.10	452	305	756	60	5.4
			December	6.33	3.71	10.04	459	269	727	63	5.5
			January	5.46	3.44	8.91	396	249	645	61	4.7
			February	5.42	2.92	8.34	431	232	663	65	5.2
			March	4.36	1.51	5.87	316	110	425	74	3.8
			April	4.82	1.49	6.31	361	111	472	76	4.3
			May	5.98	1.06	7.04	433	77	510	85	5.2
			June	4.68	0.95	5.63	350	71	421	83	4.2
			July	2.68	0.09	2.77	194	6.2	200	97	2.3
	August	1.15	0.05	1.20	83	3.3	87	96	1		
	September	0.63	0.30	0.93	47	23	70	68	0.57		
12056500	NF SKOKOMISH RIVER BELOW STRCSE RPDS NEAR HDSPT, WA.	57.2	October	3.73	3.63	7.36	185	180	365	51	3.2
			November	7.40	6.12	13.52	379	314	693	55	6.6
			December	9.07	6.85	15.91	450	340	790	57	7.9
			January	7.91	5.97	13.87	392	296	688	57	6.9
			February	6.91	4.82	11.73	376	262	638	59	6.6
			March	6.98	3.13	10.11	346	155	502	69	6.1
			April	7.68	2.44	10.12	394	125	519	76	6.9
			May	10.55	2.79	13.34	523	138	662	79	9.1
			June	9.76	1.87	11.62	500	96	596	84	8.7
			July	5.90	0.86	6.76	293	42	335	87	5.1
	August	2.68	0.37	3.05	133	19	151	88	2.3		
	September	1.85	1.03	2.88	95	53	148	64	1.7		
12057500	NORTH FORK SKOKOMISH RIVER NEAR HOODSPORT, WA.	93.7	October	*	*	10.73	*	*	872	*	*
			November	*	*	13.73	*	*	1150	*	*
			December	*	*	15.75	*	*	1280	*	*
			January	*	*	15.09	*	*	1230	*	*
			February	*	*	11.04	*	*	985	*	*
			March	*	*	9.17	*	*	745	*	*
			April	*	*	6.66	*	*	559	*	*
			May	*	*	6.47	*	*	526	*	*
			June	*	*	6.89	*	*	579	*	*
			July	*	*	4.94	*	*	402	*	*
	August	*	*	3.72	*	*	302	*	*		
	September	*	*	5.77	*	*	485	*	*		

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12058000	DEER MEADOW CREEK NEAR HOODSPORT, WA.	1.83	October	0.83	0.34	1.17	1.3	0.53	1.9	71	0.72
			November	3.23	2.25	5.48	5.3	3.7	9	59	2.9
			December	6.62	3.87	10.50	11	6.1	17	63	5.7
			January	7.49	4.03	11.52	12	6.4	18	65	6.5
			February	6.65	2.40	9.05	12	4.2	16	73	6.3
			March	5.78	2.24	8.01	9.2	3.5	13	72	5
			April	3.69	0.95	4.64	6.1	1.6	7.6	80	3.3
			May	1.69	0.17	1.86	2.7	0.28	3	91	1.5
			June	1.01	0.07	1.07	1.7	0.11	1.8	94	0.9
			July	0.75	0.05	0.80	1.2	0.08	1.3	94	0.65
			August	0.55	0.04	0.59	0.87	0.06	0.93	94	0.47
			September	0.47	0.06	0.52	0.76	0.09	0.86	89	0.42
12058500	DOW CREEK NEAR HOODSPORT, WA.	1.67	October	1.34	1.15	2.49	1.9	1.7	3.6	54	1.2
			November	4.90	2.76	7.67	7.3	4.1	11	64	4.4
			December	9.40	3.53	12.93	14	5.1	19	73	8.2
			January	12.10	5.93	18.03	18	8.6	26	67	10
			February	13.79	7.49	21.28	22	12	34	65	13
			March	5.76	1.37	7.13	8.3	2	10	81	5
			April	3.61	0.47	4.08	5.4	0.7	6.1	89	3.2
			May	1.61	0.12	1.73	2.3	0.18	2.5	93	1.4
			June	0.79	0.02	0.81	1.2	0.03	1.2	98	0.71
			July	0.37	0.01	0.39	0.54	0.02	0.56	97	0.32
			August	0.21	0.01	0.22	0.3	0.02	0.32	95	0.18
			September	0.16	0.04	0.19	0.24	0.05	0.29	82	0.14
12059500	N.F. SKOKOMISH RIVER NEAR POTLATCH, WA.	117	October	*	*	0.69	*	*	70	*	*
			November	*	*	1.76	*	*	184	*	*
			December	*	*	2.53	*	*	256	*	*
			January	*	*	2.23	*	*	226	*	*
			February	*	*	1.89	*	*	211	*	*
			March	*	*	1.44	*	*	146	*	*
			April	*	*	0.87	*	*	91	*	*
			May	*	*	0.53	*	*	54	*	*
			June	*	*	0.39	*	*	41	*	*
			July	*	*	0.26	*	*	26	*	*
			August	*	*	0.20	*	*	20	*	*
			September	*	*	0.18	*	*	19	*	*
12059800	S.F. SKOKOMISH RIVER NEAR HOODSPORT, WA.	26	October	8.38	4.46	12.84	189	100	289	65	7.3
			November	10.16	6.49	16.64	237	151	388	61	9.1
			December	15.83	9.45	25.28	357	213	570	63	14
			January	14.52	8.15	22.67	327	184	511	64	13
			February	11.31	4.65	15.96	280	115	395	71	11
			March	10.07	4.54	14.62	227	102	330	69	8.7
			April	10.44	2.75	13.19	243	64	307	79	9.4
			May	11.54	1.74	13.29	260	39	300	87	10
			June	9.12	1.27	10.39	213	30	242	88	8.2
			July	4.62	0.26	4.87	104	5.8	110	95	4
			August	2.61	0.41	3.01	59	9.2	68	87	2.3
			September	3.20	1.33	4.53	75	31	105	71	2.9



## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12060000	S.F. SKOKOMISH RIVER NEAR POTLATCH, WA.	65.6	October	4.75	4.58	9.32	270	260	531	51	4.1
			November	8.64	7.59	16.23	508	446	954	53	7.7
			December	11.52	6.72	18.24	655	382	1040	63	10
			January	10.83	7.11	17.94	616	404	1020	60	9.4
			February	10.42	6.77	17.19	651	423	1070	61	9.9
			March	8.69	3.16	11.86	495	180	675	73	7.5
			April	8.62	2.70	11.31	507	159	665	76	7.7
			May	7.67	1.81	9.48	437	103	539	81	6.7
			June	5.02	0.92	5.94	295	54	349	85	4.5
			July	2.97	0.34	3.31	169	19	188	90	2.6
	August	1.91	0.20	2.11	109	11	120	91	1.7		
	September	1.62	0.94	2.56	95	55	151	63	1.5		
12060500	SOUTH FORK SKOKOMISH RIVER NEAR UNION, WA.	76.3	October	4.14	3.93	8.07	274	260	534	51	3.6
			November	8.84	7.97	16.81	605	545	1150	53	7.9
			December	12.55	10.10	22.65	830	668	1500	55	11
			January	11.18	8.86	20.04	740	586	1330	56	9.7
			February	9.54	7.08	16.63	693	514	1210	57	9.1
			March	9.43	4.81	14.24	624	319	942	66	8.2
			April	8.58	2.64	11.21	586	180	767	76	7.7
			May	7.21	1.95	9.16	477	129	606	79	6.3
			June	4.93	0.70	5.63	337	48	385	88	4.4
			July	2.95	0.45	3.40	195	30	225	87	2.6
	August	1.89	0.22	2.11	125	15	140	90	1.6		
	September	1.93	1.05	2.98	132	72	204	65	1.7		
12061500	SKOKOMISH RIVER NEAR POTLATCH, WA.	227	October	*	*	4.04	*	*	796	*	*
			November	*	*	9.30	*	*	1890	*	*
			December	*	*	11.98	*	*	2360	*	*
			January	*	*	10.90	*	*	2150	*	*
			February	*	*	9.79	*	*	2110	*	*
			March	*	*	8.13	*	*	1600	*	*
			April	*	*	5.99	*	*	1220	*	*
			May	*	*	4.33	*	*	852	*	*
			June	*	*	2.74	*	*	558	*	*
			July	*	*	1.78	*	*	350	*	*
	August	*	*	1.26	*	*	247	*	*		
	September	*	*	1.51	*	*	308	*	*		
12062500	PURDY CREEK NEAR UNION, WA.	3.73	October	4.25	0.25	4.50	14	0.8	15	94	3.7
			November	4.91	0.85	5.76	16	2.8	19	85	4.4
			December	6.33	1.55	7.88	20	5	26	80	5.5
			January	8.52	0.97	9.49	28	3.2	31	90	7.4
			February	8.80	0.46	9.26	31	1.6	33	95	8.4
			March	9.70	0.30	10.01	31	0.98	32	97	8.4
			April	8.93	0.54	9.47	30	1.8	32	94	8
			May	8.19	0.34	8.53	27	1.1	28	96	7.1
			June	6.53	0.09	6.62	22	0.31	22	99	5.9
			July	5.86	0.07	5.92	19	0.22	19	99	5.1
	August	5.09	0.06	5.15	16	0.18	17	99	4.4		
	September	4.44	0.08	4.52	15	0.27	15	98	4		

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12063000	UNION RIVER NEAR BREMERTON, WA.	3.16	October	1.33	0.99	2.32	3.6	2.7	6.4	57	1.2
			November	3.56	3.90	7.46	10	11	21	48	3.2
			December	5.53	2.58	8.10	15	7.1	22	68	4.8
			January	6.34	3.70	10.04	17	10	28	63	5.5
			February	5.60	3.14	8.73	17	9.4	26	64	5.3
			March	3.94	1.49	5.43	11	4.1	15	73	3.4
			April	2.67	0.77	3.44	7.6	2.2	9.7	78	2.4
			May	1.91	0.30	2.21	5.2	0.82	6.1	86	1.7
			June	1.31	0.14	1.45	3.7	0.4	4.1	90	1.2
			July	1.26	0.12	1.38	3.5	0.33	3.8	91	1.1
August	1.02	0.06	1.08	2.8	0.16	3	94	0.88			
September	1.06	0.09	1.15	3	0.24	3.2	93	0.95			
12063500	UNION RIVER NEAR BELFAIR, WA.	19.8	October	1.49	0.49	1.98	26	8.3	34	75	1.3
			November	2.18	1.50	3.68	39	27	65	59	2
			December	3.45	1.66	5.11	59	28	88	68	3
			January	4.22	2.18	6.39	72	37	110	66	3.7
			February	4.01	1.89	5.90	75	36	111	68	3.8
			March	3.27	0.84	4.10	56	14	70	80	2.8
			April	2.54	0.29	2.83	45	5.2	50	90	2.3
			May	2.02	0.19	2.21	35	3.3	38	91	1.7
			June	1.57	0.05	1.62	28	0.87	29	97	1.4
			July	1.31	0.03	1.34	23	0.45	23	98	1.1
August	1.16	0.02	1.18	20	0.38	20	98	1			
September	1.08	0.07	1.15	19	1.2	20	94	0.97			
12065000	MISSION CREEK NEAR BELFAIR, WA.	4.43	October	0.39	0.38	0.76	1.5	1.4	2.9	51	0.34
			November	2.19	1.51	3.70	8.7	6	15	59	2
			December	5.55	1.90	7.45	21	7.3	29	74	4.8
			January	6.82	2.59	9.40	26	9.9	36	73	5.9
			February	5.29	3.50	8.79	22	15	37	60	5
			March	3.40	1.14	4.53	13	4.4	17	75	2.9
			April	1.64	0.59	2.23	6.5	2.4	8.9	74	1.5
			May	0.98	0.19	1.18	3.8	0.73	4.5	84	0.85
			June	0.30	0.01	0.32	1.2	0.06	1.3	96	0.27
			July	0.15	0.00	0.15	0.57	0.02	0.58	97	0.13
August	0.10	0.00	0.10	0.39	0.01	0.4	97	0.09			
September	0.07	0.01	0.08	0.29	0.03	0.31	91	0.06			
12065500	GOLD CREEK NEAR BREMERTON, WA.	1.51	October	1.34	0.60	1.94	1.7	0.79	2.5	69	1.2
			November	3.44	2.82	6.26	4.7	3.8	8.5	55	3.1
			December	6.12	3.06	9.18	8	4	12	67	5.3
			January	6.92	3.88	10.80	9.1	5.1	14	64	6
			February	6.16	2.55	8.72	8.9	3.7	13	71	5.9
			March	4.85	1.93	6.78	6.4	2.5	8.9	72	4.2
			April	3.12	0.81	3.93	4.2	1.1	5.3	79	2.8
			May	1.92	0.21	2.13	2.5	0.27	2.8	90	1.7
			June	1.04	0.10	1.14	1.4	0.13	1.5	91	0.93
			July	0.63	0.05	0.68	0.83	0.06	0.89	93	0.55
August	0.44	0.03	0.48	0.58	0.04	0.62	93	0.38			
September	0.45	0.08	0.53	0.61	0.1	0.71	85	0.4			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12066000	TAHUYA RIVER NEAR BREMERTON, WA.	5.99	October	0.89	0.66	1.55	4.6	3.4	8.1	57	0.77
			November	3.89	3.60	7.48	21	19	40	52	3.5
			December	6.47	2.82	9.29	34	15	48	70	5.6
			January	6.43	4.15	10.58	33	22	55	61	5.6
			February	5.97	3.84	9.81	34	22	56	61	5.7
			March	3.73	2.27	5.99	19	12	31	62	3.2
			April	2.36	0.76	3.12	13	4.1	17	76	2.1
			May	1.19	0.35	1.54	6.2	1.8	8	77	1
			June	0.54	0.11	0.65	2.9	0.6	3.5	83	0.48
			July	0.27	0.05	0.32	1.4	0.28	1.7	83	0.23
			August	0.14	0.02	0.16	0.74	0.09	0.83	89	0.12
			September	0.14	0.04	0.17	0.72	0.2	0.93	78	0.12
12067000	PANTHER CREEK NEAR BREMERTON, WA.	1	October	0.23	0.47	0.69	0.2	0.4	0.6	33	0.2
			November	2.36	1.54	3.90	2.1	1.4	3.5	61	2.1
			December	6.53	1.81	8.34	5.7	1.6	7.2	78	5.7
			January	7.25	2.74	9.99	6.3	2.4	8.7	73	6.3
			February	5.43	4.00	9.43	5.2	3.8	9	58	5.2
			March	3.71	1.18	4.88	3.2	1	4.2	76	3.2
			April	1.42	0.61	2.03	1.3	0.55	1.8	70	1.3
			May	0.88	0.42	1.30	0.76	0.37	1.1	67	0.76
			June	0.20	0.02	0.22	0.18	0.02	0.2	90	0.18
			July	0.05	0.01	0.06	0.04	0.01	0.05	89	0.04
			August	0.01	0.00	0.01	0.01	0	0.01	100	0.008
			September	0.00	0.00	0.00	0	0	0	100	0.001
12067500	TAHUYA RIVER NEAR BELFAIR, WA.	15	October	0.44	0.65	1.09	5.7	8.5	14	40	0.38
			November	3.09	3.28	6.37	42	44	86	48	2.8
			December	5.93	2.58	8.50	77	34	111	70	5.1
			January	6.11	3.80	9.91	79	49	129	62	5.3
			February	5.27	3.23	8.50	75	46	121	62	5
			March	3.27	1.96	5.22	43	25	68	63	2.8
			April	1.93	0.70	2.63	26	9.4	35	73	1.7
			May	0.86	0.34	1.19	11	4.4	15	72	0.74
			June	0.27	0.06	0.33	3.6	0.85	4.4	81	0.24
			July	0.09	0.02	0.10	1.1	0.21	1.3	84	0.07
			August	0.02	0.00	0.02	0.29	0.01	0.3	96	0.02
			September	0.01	0.01	0.02	0.17	0.08	0.26	68	0.012
12068500	DEWATTO RIVER NEAR DEWATTO, WA.	18.4	October	1.35	0.52	1.87	22	8.3	30	72	1.2
			November	3.12	2.12	5.23	51	35	86	60	2.8
			December	6.29	3.07	9.36	100	49	149	67	5.5
			January	6.41	3.76	10.17	102	60	162	63	5.6
			February	5.62	2.42	8.04	98	42	141	70	5.3
			March	4.80	1.98	6.78	77	32	108	71	4.2
			April	3.16	0.58	3.73	52	9.5	62	85	2.8
			May	2.16	0.23	2.39	34	3.7	38	90	1.9
			June	1.42	0.06	1.48	23	1	24	96	1.3
			July	1.10	0.04	1.13	17	0.59	18	97	0.95
			August	0.93	0.03	0.96	15	0.46	15	97	0.8
			September	0.84	0.10	0.94	14	1.6	16	89	0.75

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12069550	BIG BEEF CREEK NEAR SEABECK, WA.	13.8	October	*	*	1.19	*	*	14	*	*
			November	*	*	3.54	*	*	44	*	*
			December	*	*	8.01	*	*	96	*	*
			January	*	*	7.65	*	*	92	*	*
			February	*	*	6.08	*	*	80	*	*
			March	*	*	5.97	*	*	71	*	*
			April	*	*	2.96	*	*	37	*	*
			May	*	*	1.46	*	*	17	*	*
			June	*	*	0.79	*	*	9.7	*	*
			July	*	*	0.48	*	*	5.7	*	*
12070000	DOGFISH CREEK NEAR POULSBO, WA.	5.08	October	1.14	0.25	1.39	5	1.1	6.1	82	0.99
			November	1.55	0.68	2.23	7	3.1	10	69	1.4
			December	2.20	1.10	3.29	9.7	4.8	15	67	1.9
			January	2.55	1.48	4.03	11	6.5	18	63	2.2
			February	2.39	0.97	3.36	12	4.7	16	71	2.3
			March	2.27	0.84	3.10	10	3.7	14	73	2
			April	1.65	0.24	1.89	7.5	1.1	8.6	87	1.5
			May	1.19	0.16	1.36	5.3	0.72	6	88	1
			June	0.92	0.09	1.01	4.2	0.42	4.6	91	0.83
			July	0.76	0.06	0.81	3.3	0.24	3.6	93	0.66
12072000	CHICO CREEK NEAR BREMERTON, WA.	15.3	October	*	*	0.70	*	*	9.3	*	*
			November	*	*	2.64	*	*	36	*	*
			December	*	*	6.26	*	*	83	*	*
			January	*	*	6.95	*	*	92	*	*
			February	*	*	5.07	*	*	74	*	*
			March	*	*	5.17	*	*	69	*	*
			April	*	*	2.52	*	*	35	*	*
			May	*	*	1.28	*	*	17	*	*
			June	*	*	0.60	*	*	8.3	*	*
			July	*	*	0.29	*	*	3.8	*	*
12072500	BLACKJACK CREEK AT PORT ORCHARD, WA.	14.49	October	0.84	0.29	1.13	11	3.7	14	74	0.73
			November	1.12	0.49	1.61	15	6.4	21	70	1
			December	1.79	0.72	2.52	23	9.1	32	71	1.6
			January	1.82	1.10	2.92	23	14	37	62	1.6
			February	2.08	1.40	3.48	29	19	48	60	2
			March	2.21	0.70	2.91	28	8.8	37	76	1.9
			April	1.64	0.17	1.82	21	2.2	24	90	1.5
			May	1.44	0.17	1.61	18	2.1	20	90	1.2
			June	0.99	0.03	1.03	13	0.43	13	97	0.89
			July	0.74	0.01	0.75	9.3	0.18	9.5	98	0.64
August	0.71	0.02	0.73	8.9	0.29	9.2	97	0.61			
September	0.70	0.05	0.75	9	0.66	9.7	93	0.62			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean	Mean	Mean	Mean	Mean	Mean BF	Mean	
				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12073000	BURLEY CREEK AT BURLEY, WA.	10.7	October	2.07	0.46	2.52	19	4.2	23	82	1.8
			November	2.63	1.06	3.69	25	10	35	71	2.4
			December	3.07	1.01	4.08	29	9.4	38	75	2.7
			January	3.32	0.87	4.20	31	8.1	39	79	2.9
			February	3.22	1.08	4.30	33	11	44	75	3.1
			March	3.35	0.60	3.95	31	5.6	37	85	2.9
			April	2.72	0.31	3.03	26	3	29	90	2.4
			May	2.38	0.22	2.59	22	2	24	92	2.1
			June	1.90	0.07	1.97	18	0.68	19	96	1.7
			July	1.65	0.06	1.71	15	0.55	16	97	1.4
August	1.61	0.08	1.69	15	0.76	16	95	1.4			
September	1.63	0.11	1.74	16	1	17	94	1.5			
12073500	HUGE CREEK NEAR WAUNA, WA.	6.47	October	0.88	0.11	0.99	4.9	0.62	5.5	89	0.76
			November	1.26	0.51	1.76	7.3	2.9	10	71	1.1
			December	2.18	0.97	3.14	12	5.4	18	69	1.9
			January	2.74	1.39	4.13	15	7.8	23	66	2.4
			February	2.56	1.03	3.60	16	6.4	22	71	2.4
			March	2.24	0.65	2.89	13	3.6	16	78	1.9
			April	1.61	0.24	1.85	9.3	1.4	11	87	1.4
			May	1.27	0.08	1.34	7.1	0.42	7.5	94	1.1
			June	1.00	0.04	1.04	5.8	0.23	6.1	96	0.9
			July	0.87	0.02	0.90	4.9	0.13	5	97	0.76
August	0.79	0.02	0.82	4.5	0.12	4.6	97	0.69			
September	0.77	0.04	0.81	4.5	0.22	4.7	95	0.69			
12076500	GOLDSBOROUGH CREEK NEAR SHELTON, WA.	39.3	October	1.07	0.45	1.52	37	15	52	70	0.93
			November	2.36	1.56	3.93	83	55	138	60	2.1
			December	3.90	1.88	5.78	133	64	197	68	3.4
			January	5.14	2.36	7.50	175	80	256	69	4.5
			February	4.61	1.69	6.30	173	63	236	73	4.4
			March	4.23	1.33	5.56	144	45	190	76	3.7
			April	3.09	0.68	3.78	109	24	133	82	2.8
			May	1.91	0.23	2.15	65	7.9	73	89	1.7
			June	1.17	0.10	1.27	41	3.5	45	92	1.1
			July	0.84	0.05	0.88	29	1.5	30	95	0.73
August	0.69	0.04	0.73	23	1.4	25	95	0.6			
September	0.64	0.07	0.71	22	2.5	25	90	0.57			
12078000	SKOOKUM CREEK AT KAMILCHE, WA.	16.1	October	0.98	0.58	1.56	14	8.1	22	63	0.85
			November	3.11	1.99	5.10	45	29	74	61	2.8
			December	5.93	3.06	8.99	83	43	126	66	5.1
			January	6.73	3.40	10.13	94	47	141	66	5.8
			February	5.34	2.27	7.61	82	35	117	70	5.1
			March	4.19	1.41	5.59	58	20	78	75	3.6
			April	2.99	0.88	3.87	43	13	56	77	2.7
			May	1.19	0.13	1.31	17	1.8	18	90	1
			June	0.55	0.06	0.61	7.9	0.88	8.8	90	0.49
			July	0.27	0.02	0.29	3.7	0.28	4	93	0.23
August	0.17	0.02	0.19	2.4	0.25	2.7	91	0.15			
September	0.18	0.02	0.20	2.6	0.35	2.9	88	0.16			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12078400	KENNEDY CREEK NEAR KAMILCHE, WA.	17.4	October	0.82	0.32	1.14	12	4.8	17	72	0.71
			November	3.20	1.72	4.92	50	27	77	65	2.9
			December	6.14	2.71	8.85	93	41	134	69	5.3
			January	8.01	3.23	11.23	121	49	170	71	6.9
			February	5.90	1.94	7.84	98	32	130	75	5.6
			March	5.06	2.10	7.16	76	32	108	71	4.4
			April	2.91	0.90	3.82	45	14	60	76	2.6
			May	1.64	0.18	1.82	25	2.7	27	90	1.4
			June	0.64	0.10	0.74	9.9	1.6	12	86	0.57
			July	0.32	0.03	0.36	4.9	0.47	5.4	91	0.28
			August	0.23	0.02	0.26	3.5	0.35	3.9	91	0.2
			September	0.25	0.05	0.31	3.9	0.84	4.8	82	0.23
12079000	DESCHUTES RIVER NEAR RAINIER, WA.	89.8	October	0.73	0.54	1.28	57	42	99	57	0.64
			November	1.99	2.14	4.13	160	172	333	48	1.8
			December	3.81	2.86	6.66	297	222	519	57	3.3
			January	4.09	3.43	7.51	318	267	585	54	3.5
			February	3.59	2.68	6.26	306	229	535	57	3.4
			March	3.55	1.81	5.36	276	141	418	66	3.1
			April	2.74	1.19	3.92	220	95	316	70	2.5
			May	1.75	0.36	2.11	137	28	165	83	1.5
			June	1.03	0.25	1.28	83	20	103	81	0.93
			July	0.66	0.05	0.72	51	4.2	56	92	0.57
			August	0.47	0.04	0.52	37	3.4	40	91	0.41
			September	0.44	0.10	0.54	35	8	43	81	0.39
12080000	DESCHUTES RIVER NEAR OLYMPIA, WA.	160	October	0.95	0.31	1.26	132	43	175	76	0.83
			November	2.02	1.47	3.49	290	211	501	58	1.8
			December	3.37	1.45	4.82	467	202	669	70	2.9
			January	3.80	1.87	5.67	527	259	787	67	3.3
			February	3.98	1.70	5.68	606	258	864	70	3.8
			March	3.35	0.89	4.24	464	124	588	79	2.9
			April	2.71	0.54	3.25	388	78	466	83	2.4
			May	1.94	0.30	2.24	269	42	311	87	1.7
			June	1.25	0.09	1.33	179	12	191	94	1.1
			July	0.92	0.03	0.95	128	4.4	132	97	0.8
			August	0.75	0.03	0.77	104	3.5	107	97	0.65
			September	0.68	0.06	0.74	98	8	106	92	0.61
12080010	DESCHUTES RIVER AT E ST BRIDGE AT TUMWATER, WA.	162	October	0.91	0.31	1.22	127	44	171	74	0.79
			November	1.99	1.36	3.35	289	198	487	59	1.8
			December	3.24	1.70	4.94	455	239	694	66	2.8
			January	3.56	1.90	5.46	500	267	767	65	3.1
			February	3.53	1.85	5.39	545	286	831	66	3.4
			March	3.20	1.01	4.21	450	142	592	76	2.8
			April	2.58	0.72	3.30	374	105	479	78	2.3
			May	1.90	0.28	2.18	267	39	306	87	1.6
			June	1.23	0.11	1.34	178	16	195	92	1.1
			July	0.91	0.04	0.94	127	5.1	132	96	0.79
			August	0.75	0.03	0.77	105	3.8	108	97	0.65
			September	0.66	0.06	0.71	95	8.1	103	92	0.59

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean	Mean	Mean	Mean	Mean	Mean BF	Mean	
				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12081000	WOODLAND CREEK NEAR OLYMPIA, WA.	24.6	October	0.62	0.03	0.65	13	0.62	14	96	0.54
			November	0.73	0.10	0.83	16	2.3	18	87	0.65
			December	1.15	0.16	1.31	25	3.4	28	88	1
			January	1.63	0.23	1.86	35	4.9	40	88	1.4
			February	1.83	0.14	1.97	43	3.3	46	93	1.7
			March	1.90	0.09	1.99	40	2	42	95	1.6
			April	1.55	0.04	1.59	34	0.97	35	97	1.4
			May	1.26	0.02	1.28	27	0.41	27	99	1.1
			June	0.95	0.02	0.97	21	0.4	21	98	0.85
			July	0.79	0.01	0.79	17	0.19	17	99	0.68
			August	0.67	0.01	0.68	14	0.19	15	99	0.58
			September	0.59	0.01	0.60	13	0.22	13	98	0.53
12082500	NISQUALLY RIVER NEAR NATIONAL, WA.	133	October	2.94	1.05	3.99	340	121	461	74	2.6
			November	4.27	2.65	6.91	509	316	824	62	3.8
			December	5.27	3.06	8.33	608	353	961	63	4.6
			January	4.63	2.90	7.52	534	334	868	61	4
			February	4.28	2.34	6.61	541	296	837	65	4.1
			March	4.37	1.28	5.65	504	148	651	77	3.8
			April	*	*	6.63	*	*	790	*	*
			May	*	*	9.02	*	*	1040	*	*
			June	*	*	8.79	*	*	1050	*	*
			July	*	*	6.96	*	*	803	*	*
			August	4.23	0.59	4.82	488	68	556	88	3.7
			September	2.96	0.66	3.62	353	79	432	82	2.7
12083000	MINERAL CREEK NEAR MINERAL, WA.	75.2	October	1.28	1.09	2.37	83	71	154	54	1.1
			November	3.78	3.78	7.57	255	255	510	50	3.4
			December	5.90	4.48	10.38	385	292	677	57	5.1
			January	5.51	4.63	10.14	359	302	661	54	4.8
			February	5.06	3.66	8.72	362	262	624	58	4.8
			March	5.04	2.44	7.48	329	159	488	67	4.4
			April	5.65	1.77	7.42	381	120	500	76	5.1
			May	4.77	1.16	5.92	311	75	386	80	4.1
			June	2.42	0.66	3.08	163	44	207	79	2.2
			July	1.13	0.15	1.28	74	9.8	83	88	0.98
			August	0.64	0.09	0.73	41	5.9	47	88	0.55
			September	0.61	0.23	0.85	41	16	57	72	0.55
12083500	EAST CREEK NEAR ELBE, WA.	11.5	October	2.32	2.22	4.53	23	22	45	51	2
			November	4.68	3.88	8.57	48	40	88	55	4.2
			December	6.43	5.96	12.39	64	59	124	52	5.6
			January	6.49	5.34	11.83	65	53	118	55	5.6
			February	4.08	3.58	7.66	45	39	84	53	3.9
			March	5.04	3.93	8.97	50	39	89	56	4.4
			April	5.85	1.88	7.73	60	19	80	76	5.2
			May	4.68	1.64	6.32	47	16	63	74	4.1
			June	2.34	0.47	2.81	24	4.8	29	83	2.1
			July	0.58	0.06	0.64	5.8	0.55	6.3	91	0.5
			August	0.35	0.08	0.43	3.5	0.82	4.3	81	0.3
			September	0.56	0.56	1.12	5.7	5.8	11	50	0.5

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12084000	NISQUALLY RIVER NEAR ALDER, WA.	252	October	1.76	1.04	2.80	384	228	612	63	1.5
			November	3.12	2.82	5.94	704	638	1340	52	2.8
			December	4.23	4.88	9.11	924	1070	1990	46	3.7
			January	4.34	2.86	7.21	949	626	1580	60	3.8
			February	3.19	1.64	4.83	765	394	1160	66	3
			March	4.24	1.76	5.99	926	384	1310	71	3.7
			April	4.61	1.42	6.03	1040	321	1360	76	4.1
			May	5.01	1.28	6.29	1100	279	1370	80	4.3
			June	4.55	1.22	5.77	1030	276	1300	79	4.1
			July	3.20	0.63	3.83	699	137	836	84	2.8
			August	2.15	0.36	2.50	470	78	547	86	1.9
			September	1.57	0.47	2.04	355	106	461	77	1.4
12084500	LITTLE NISQUALLY RIVER NEAR ALDER, WA.	28	October	1.39	1.35	2.74	34	33	66	51	1.2
			November	3.69	2.83	6.51	93	71	163	57	3.3
			December	5.92	4.24	10.16	144	103	247	58	5.1
			January	5.71	3.72	9.43	139	90	229	61	5
			February	4.31	2.69	7.00	115	72	187	62	4.1
			March	4.61	2.53	7.13	112	61	173	65	4
			April	4.33	1.47	5.80	109	37	146	75	3.9
			May	3.27	1.06	4.33	79	26	105	76	2.8
			June	1.95	0.58	2.53	49	15	63	77	1.7
			July	0.76	0.09	0.85	18	2.2	21	90	0.66
			August	0.41	0.04	0.45	9.9	1	11	90	0.35
			September	0.64	0.18	0.82	16	4.4	21	78	0.58
12086500	NISQUALLY RIVER AT LA GRANDE, WA.	292	October	*	*	4.16	*	*	1050	*	*
			November	*	*	6.15	*	*	1610	*	*
			December	*	*	8.31	*	*	2100	*	*
			January	*	*	7.94	*	*	2010	*	*
			February	*	*	7.28	*	*	2020	*	*
			March	*	*	6.44	*	*	1630	*	*
			April	*	*	5.64	*	*	1480	*	*
			May	*	*	5.85	*	*	1480	*	*
			June	*	*	4.78	*	*	1250	*	*
			July	*	*	3.81	*	*	964	*	*
			August	*	*	3.03	*	*	766	*	*
			September	*	*	3.03	*	*	792	*	*
12087000	MASHEL RIVER NEAR LA GRANDE, WA.	80.7	October	0.87	0.83	1.70	61	58	119	51	0.75
			November	2.33	2.19	4.52	168	159	327	51	2.1
			December	3.40	3.09	6.49	238	217	454	52	2.9
			January	2.90	2.16	5.06	203	151	354	57	2.5
			February	2.65	2.57	5.22	203	198	401	51	2.5
			March	2.80	1.64	4.44	196	115	311	63	2.4
			April	2.97	1.07	4.04	215	78	292	73	2.7
			May	2.25	0.83	3.07	157	58	215	73	1.9
			June	1.42	0.75	2.17	103	54	157	65	1.3
			July	0.65	0.25	0.90	45	17	63	72	0.56
			August	0.31	0.07	0.38	22	4.8	26	82	0.27
			September	0.31	0.23	0.53	22	16	38	57	0.27



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12088000	OHOP CREEK NEAR EATONVILLE, WA.	34.5	October	0.77	0.45	1.22	23	14	37	63	0.67
			November	1.68	1.08	2.75	52	33	85	61	1.5
			December	2.40	1.62	4.02	72	48	120	60	2.1
			January	2.63	1.51	4.13	79	45	124	64	2.3
			February	2.28	1.24	3.52	75	41	116	65	2.2
			March	2.27	0.92	3.19	68	28	95	71	2
			April	1.99	0.70	2.69	62	22	83	74	1.8
			May	1.38	0.47	1.85	41	14	55	74	1.2
			June	0.93	0.42	1.35	29	13	42	69	0.83
			July	0.53	0.16	0.70	16	4.9	21	77	0.46
			August	0.29	0.09	0.39	8.8	2.7	12	76	0.26
			September	0.35	0.17	0.52	11	5.3	16	67	0.31
12088400	NISQUALLY RIVER ABOVE POWELL CR NEAR MCKENNA, WA.	431	October	*	*	3.74	*	*	1400	*	*
			November	*	*	5.03	*	*	1940	*	*
			December	*	*	8.54	*	*	3190	*	*
			January	*	*	8.42	*	*	3150	*	*
			February	*	*	6.13	*	*	2520	*	*
			March	*	*	6.90	*	*	2580	*	*
			April	*	*	4.83	*	*	1860	*	*
			May	*	*	4.28	*	*	1600	*	*
			June	*	*	3.53	*	*	1360	*	*
			July	*	*	2.75	*	*	1030	*	*
			August	*	*	2.31	*	*	862	*	*
			September	*	*	2.69	*	*	1040	*	*
12088500	NISQUALLY RIVER NEAR MCKENNA, WA.	445	October	*	*	3.53	*	*	1360	*	*
			November	*	*	5.53	*	*	2210	*	*
			December	*	*	7.22	*	*	2790	*	*
			January	*	*	6.41	*	*	2470	*	*
			February	*	*	6.14	*	*	2600	*	*
			March	*	*	5.22	*	*	2020	*	*
			April	*	*	5.03	*	*	2010	*	*
			May	*	*	5.12	*	*	1980	*	*
			June	*	*	3.76	*	*	1500	*	*
			July	*	*	2.56	*	*	987	*	*
			August	*	*	1.89	*	*	730	*	*
			September	*	*	2.15	*	*	859	*	*
12089000	TANWAX CREEK NEAR MCKENNA, WA.	26	October	0.15	0.06	0.20	3.3	1.2	4.6	73	0.13
			November	1.02	0.33	1.36	24	7.7	32	76	0.92
			December	2.96	0.55	3.51	67	12	79	84	2.6
			January	2.27	0.49	2.76	51	11	62	82	2
			February	2.29	0.67	2.97	57	17	73	77	2.2
			March	2.32	0.45	2.76	52	10	62	84	2
			April	1.45	0.35	1.80	34	8.1	42	81	1.3
			May	0.87	0.23	1.10	20	5.1	25	79	0.75
			June	0.37	0.07	0.44	8.6	1.6	10	84	0.33
			July	0.19	0.04	0.22	4.2	0.86	5	83	0.16
			August	0.09	0.01	0.09	2	0.16	2.1	93	0.08
			September	0.08	0.02	0.10	1.9	0.54	2.4	78	0.07

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12089500	NISQUALLY RIVER AT MCKENNA, WA.	517	October	*	*	1.79	*	*	804	*	*
			November	*	*	3.54	*	*	1640	*	*
			December	*	*	5.19	*	*	2330	*	*
			January	*	*	4.76	*	*	2140	*	*
			February	*	*	4.65	*	*	2290	*	*
			March	*	*	3.59	*	*	1610	*	*
			April	*	*	3.00	*	*	1390	*	*
			May	*	*	2.66	*	*	1190	*	*
			June	*	*	1.96	*	*	908	*	*
			July	*	*	1.24	*	*	556	*	*
			August	*	*	0.95	*	*	424	*	*
			September	*	*	1.11	*	*	513	*	*
12090200	MUCK CREEK AT ROY, WA.	86.8	October	0.02	0.00	0.02	1.1	0.3	1.4	79	0.013
			November	0.13	0.18	0.31	10	14	24	41	0.11
			December	0.88	0.39	1.27	66	30	96	69	0.76
			January	1.61	0.69	2.30	121	52	173	70	1.4
			February	1.75	0.49	2.25	145	41	186	78	1.7
			March	1.44	0.25	1.69	108	19	127	85	1.2
			April	0.92	0.17	1.09	72	13	85	84	0.82
			May	0.56	0.07	0.63	42	4.9	47	90	0.49
			June	0.23	0.04	0.27	18	3.3	21	85	0.21
			July	0.09	0.01	0.11	7	0.9	7.9	89	0.08
			August	0.04	0.01	0.04	2.6	0.53	3.2	83	0.03
			September	0.01	0.00	0.02	1	0.23	1.2	81	0.012
12090400	NORTH FORK CLOVER CREEK NEAR PARKLAND, WA.	6.25	October	0.02	0.24	0.26	0.08	1.3	1.4	6	0.013
			November	0.42	1.19	1.61	2.4	6.7	9	26	0.38
			December	1.54	2.24	3.78	8.4	12	21	41	1.3
			January	2.56	1.72	4.28	14	9.3	23	60	2.2
			February	1.11	2.60	3.71	6.6	15	22	30	1.1
			March	1.34	1.22	2.56	7.3	6.6	14	52	1.2
			April	0.68	1.36	2.04	3.8	7.6	11	33	0.61
			May	0.15	0.23	0.38	0.83	1.2	2.1	41	0.13
			June	0.05	0.06	0.10	0.26	0.32	0.58	45	0.04
			July	0.00	0.02	0.02	0.01	0.11	0.12	5	0.001
			August	0.00	0.01	0.01	0	0.04	0.04	0	0
			September	0.00	0.03	0.03	0.01	0.17	0.18	6	0.002
12090500	CLOVER CREEK NEAR TILlicUM, WA.	73.8	October	0.08	0.02	0.10	4.9	1.3	6.1	79	0.07
			November	0.16	0.06	0.22	10	4.2	14	71	0.14
			December	0.65	0.21	0.85	41	13	55	76	0.56
			January	1.12	0.42	1.54	72	27	99	73	0.97
			February	1.28	0.51	1.79	90	36	126	71	1.2
			March	1.41	0.23	1.65	91	15	105	86	1.2
			April	0.96	0.18	1.14	64	12	76	84	0.86
			May	0.65	0.04	0.69	42	2.7	44	94	0.56
			June	0.37	0.04	0.41	24	2.6	27	90	0.33
			July	0.21	0.03	0.24	14	1.6	15	89	0.18
			August	0.09	0.01	0.10	6	0.7	6.7	89	0.08
			September	0.06	0.01	0.07	3.8	0.66	4.4	85	0.05

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12091040	CHAMBERS CREEK ABV FLETT CREEK NEAR STEILACOOM, WA.	90.4	October	*	*	0.47	*	*	36	*	*
			November	*	*	0.52	*	*	42	*	*
			December	*	*	1.11	*	*	87	*	*
			January	*	*	1.85	*	*	145	*	*
			February	*	*	1.84	*	*	158	*	*
			March	*	*	1.76	*	*	138	*	*
			April	*	*	1.40	*	*	113	*	*
			May	*	*	1.03	*	*	81	*	*
			June	*	*	0.74	*	*	60	*	*
			July	*	*	0.52	*	*	41	*	*
August	*	*	0.37	*	*	29	*	*			
September	*	*	0.34	*	*	27	*	*			
12091070	FLETT CREEK BELOW FLETT SPRINGS AT TACOMA, WA.	6.72	October	0.27	0.02	0.30	1.6	0.13	1.7	92	0.24
			November	0.57	0.17	0.74	3.4	1	4.5	76	0.51
			December	1.61	0.10	1.71	9.4	0.58	9.9	94	1.4
			January	2.00	0.19	2.19	12	1.1	13	91	1.7
			February	2.08	0.12	2.21	13	0.79	14	94	2
			March	1.73	0.06	1.80	10	0.37	10	96	1.5
			April	1.23	0.05	1.27	7.4	0.28	7.7	96	1.1
			May	0.89	0.02	0.92	5.2	0.14	5.4	97	0.78
			June	0.46	0.03	0.49	2.8	0.19	3	93	0.41
			July	0.30	0.03	0.33	1.7	0.19	1.9	90	0.26
August	0.21	0.03	0.24	1.2	0.17	1.4	88	0.18			
September	0.27	0.01	0.28	1.6	0.08	1.7	95	0.24			
12091100	FLETT CREEK AT TACOMA, WA.	8.01	October	*	*	0.62	*	*	4.3	*	*
			November	*	*	1.33	*	*	9.5	*	*
			December	*	*	2.67	*	*	19	*	*
			January	*	*	3.35	*	*	23	*	*
			February	*	*	3.03	*	*	23	*	*
			March	*	*	2.87	*	*	20	*	*
			April	*	*	2.03	*	*	15	*	*
			May	*	*	1.23	*	*	8.5	*	*
			June	*	*	0.74	*	*	5.3	*	*
			July	*	*	0.46	*	*	3.2	*	*
August	*	*	0.27	*	*	1.8	*	*			
September	*	*	0.38	*	*	2.8	*	*			
12091180	LEACH CREEK AT HOLDING POND, AT FIRCREST, WA.	4.59	October	*	*	0.91	*	*	3.6	*	*
			November	*	*	1.50	*	*	6.2	*	*
			December	*	*	1.80	*	*	7.2	*	*
			January	*	*	1.70	*	*	6.8	*	*
			February	*	*	1.38	*	*	6	*	*
			March	*	*	1.21	*	*	4.8	*	*
			April	*	*	0.81	*	*	3.3	*	*
			May	*	*	0.64	*	*	2.5	*	*
			June	*	*	0.58	*	*	2.4	*	*
			July	*	*	0.46	*	*	1.8	*	*
August	*	*	0.50	*	*	2	*	*			
September	*	*	0.67	*	*	2.8	*	*			

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12091200	LEACH CREEK NEAR FIRCREST, WA.	4.73	October	*	*	0.98	*	*	4	*	*
			November	*	*	1.62	*	*	6.9	*	*
			December	*	*	1.85	*	*	7.6	*	*
			January	*	*	1.87	*	*	7.7	*	*
			February	*	*	1.45	*	*	6.5	*	*
			March	*	*	1.31	*	*	5.4	*	*
			April	*	*	1.01	*	*	4.3	*	*
			May	*	*	0.74	*	*	3	*	*
			June	*	*	0.67	*	*	2.8	*	*
			July	*	*	0.56	*	*	2.3	*	*
August	*	*	0.59	*	*	2.4	*	*			
September	*	*	0.68	*	*	2.9	*	*			
12091300	LEACH CREEK NEAR STEILACOOM, WA.	6.56	October	*	*	1.69	*	*	9.6	*	*
			November	*	*	2.37	*	*	14	*	*
			December	*	*	2.65	*	*	15	*	*
			January	*	*	2.87	*	*	16	*	*
			February	*	*	2.38	*	*	15	*	*
			March	*	*	2.19	*	*	12	*	*
			April	*	*	1.87	*	*	11	*	*
			May	*	*	1.58	*	*	9	*	*
			June	*	*	1.37	*	*	8	*	*
			July	*	*	1.22	*	*	7	*	*
August	*	*	1.23	*	*	7	*	*			
September	*	*	1.34	*	*	7.9	*	*			
12091500	CHAMBERS CR BLW LEACH CR, NEAR STEILACOOM, WA.	104	October	0.57	0.06	0.63	51	5.2	56	91	0.49
			November	0.67	0.07	0.74	62	6.3	69	91	0.6
			December	1.20	0.17	1.37	108	16	123	87	1
			January	1.84	0.22	2.06	166	20	186	89	1.6
			February	1.99	0.19	2.18	197	18	215	91	1.9
			March	2.07	0.17	2.23	186	15	202	92	1.8
			April	1.57	0.09	1.66	147	8.3	155	95	1.4
			May	1.22	0.08	1.31	110	7.6	118	94	1.1
			June	0.85	0.06	0.92	79	6	85	93	0.76
			July	0.66	0.04	0.70	60	3.2	63	95	0.57
August	0.54	0.02	0.56	49	1.4	50	97	0.47			
September	0.51	0.02	0.53	47	1.9	49	96	0.46			
12091700	JUDD CREEK NEAR BURTON, WA.	4.41	October	0.54	0.13	0.67	2.1	0.49	2.5	81	0.47
			November	0.78	0.36	1.14	3.1	1.4	4.5	69	0.7
			December	1.93	1.24	3.18	7.4	4.8	12	61	1.7
			January	2.41	1.27	3.67	9.2	4.8	14	66	2.1
			February	1.81	0.83	2.64	7.6	3.5	11	69	1.7
			March	1.99	1.02	3.01	7.6	3.9	12	66	1.7
			April	1.25	0.25	1.49	4.9	0.97	5.9	84	1.1
			May	0.71	0.08	0.79	2.7	0.32	3	90	0.62
			June	0.48	0.08	0.56	1.9	0.33	2.2	85	0.43
			July	0.40	0.04	0.44	1.5	0.15	1.7	91	0.34
August	0.37	0.05	0.42	1.4	0.18	1.6	88	0.32			
September	0.38	0.08	0.46	1.5	0.33	1.8	82	0.34			

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12092000	PUYALLUP RIVER NEAR ELECTRON, WA	92.8	October	3.41	1.51	4.92	274	121	396	69	3
			November	4.25	2.54	6.79	353	211	564	63	3.8
			December	4.61	2.78	7.39	371	224	595	62	4
			January	4.07	2.57	6.65	328	207	535	61	3.5
			February	3.45	1.69	5.14	304	150	454	67	3.3
			March	3.52	1.05	4.57	283	84	368	77	3.1
			April	*	*	5.13	*	*	427	*	*
			May	*	*	7.65	*	*	616	*	*
			June	*	*	9.10	*	*	757	*	*
			July	*	*	8.34	*	*	671	*	*
August	5.58	1.13	6.71	449	91	540	83	4.8			
September	3.79	1.08	4.87	315	89	405	78	3.4			
12093000	KAPOWSIN CREEK NEAR KAPOWSIN, WA.	25.9	October	0.80	0.24	1.04	18	5.3	23	77	0.69
			November	1.94	0.66	2.60	45	15	60	75	1.7
			December	3.03	1.08	4.10	68	24	92	74	2.6
			January	2.71	1.05	3.76	61	23	84	72	2.4
			February	2.68	0.96	3.64	66	24	90	74	2.6
			March	2.94	0.76	3.71	66	17	83	79	2.6
			April	2.49	0.52	3.01	58	12	70	83	2.2
			May	1.45	0.33	1.78	33	7.4	40	81	1.3
			June	1.07	0.21	1.28	25	4.8	30	84	0.96
			July	0.52	0.08	0.60	12	1.8	13	87	0.45
August	0.24	0.02	0.25	5.3	0.34	5.6	94	0.2			
September	0.27	0.04	0.31	6.3	0.91	7.2	87	0.24			
12093500	PUYALLUP RIVER NEAR ORTING, WA.	172	October	2.18	1.04	3.22	324	155	480	68	1.9
			November	3.30	2.06	5.35	508	317	825	62	3
			December	4.03	2.47	6.50	600	369	970	62	3.5
			January	3.77	2.24	6.01	562	334	896	63	3.3
			February	3.08	1.65	4.72	504	270	773	65	2.9
			March	3.15	0.96	4.10	469	142	612	77	2.7
			April	3.31	0.88	4.19	510	136	646	79	3
			May	4.18	1.07	5.25	624	159	783	80	3.6
			June	4.54	1.13	5.67	700	174	874	80	4.1
			July	4.08	0.80	4.88	608	120	728	84	3.5
August	3.17	0.59	3.76	472	88	560	84	2.7			
September	2.23	0.66	2.89	344	102	446	77	2			
12093900	CARBON RIVER AT FAIRFAX, WA.	76.2	October	2.98	1.13	4.12	197	75	272	72	2.6
			November	3.77	2.45	6.22	258	167	425	61	3.4
			December	5.07	3.72	8.79	335	246	581	58	4.4
			January	4.44	4.52	8.96	294	299	592	50	3.9
			February	3.45	1.52	4.97	250	110	360	69	3.3
			March	3.48	1.12	4.59	230	74	304	76	3
			April	*	*	4.61	*	*	315	*	*
			May	*	*	8.54	*	*	565	*	*
			June	*	*	10.50	*	*	717	*	*
			July	*	*	7.81	*	*	516	*	*
August	4.71	0.83	5.54	312	55	366	85	4.1			
September	3.19	0.90	4.09	218	61	279	78	2.9			

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				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12094000	CARBON RIVER NEAR FAIRFAX, WA.	78.9	October	2.83	1.68	4.50	193	115	308	63	2.5
			November	4.05	2.97	7.02	286	210	496	58	3.6
			December	4.66	3.23	7.89	319	221	540	59	4
			January	4.01	2.79	6.80	274	191	465	59	3.5
			February	3.32	1.82	5.14	249	137	386	65	3.2
			March	3.36	1.08	4.43	230	74	303	76	2.9
			April	*	*	5.32	*	*	376	*	*
			May	*	*	8.14	*	*	557	*	*
			June	*	*	9.15	*	*	647	*	*
			July	*	*	7.13	*	*	488	*	*
August	4.01	0.66	4.67	274	45	319	86	3.5			
September	2.66	0.82	3.48	188	58	246	77	2.4			
12094400	SO PRAIRIE CREEK NEAR ENUMCLAW, WA.	22.4	October	3.07	1.32	4.39	60	26	85	70	2.7
			November	3.82	1.33	5.15	77	27	103	74	3.4
			December	4.64	3.06	7.70	90	59	150	60	4
			January	5.92	4.03	9.95	115	78	193	59	5.1
			February	4.79	1.23	6.02	102	26	128	80	4.6
			March	3.53	0.93	4.45	69	18	87	79	3.1
			April	4.57	0.90	5.47	92	18	110	84	4.1
			May	5.73	1.26	6.99	111	24	136	82	5
			June	5.93	1.34	7.27	119	27	146	82	5.3
			July	3.05	0.39	3.44	59	7.6	67	89	2.6
August	1.94	0.60	2.54	38	12	49	76	1.7			
September	2.12	0.59	2.71	43	12	54	78	1.9			
12095000	SOUTH PRAIRIE CREEK AT SOUTH PRAIRIE, WA.	79.5	October	1.26	0.89	2.15	87	61	148	59	1.1
			November	2.33	2.09	4.42	166	149	315	53	2.1
			December	3.15	2.12	5.27	217	146	363	60	2.7
			January	3.28	2.45	5.73	226	169	395	57	2.8
			February	2.82	1.97	4.79	213	149	362	59	2.7
			March	2.92	1.05	3.97	201	72	274	74	2.5
			April	3.12	1.00	4.13	222	71	294	76	2.8
			May	2.91	0.84	3.75	201	58	258	78	2.5
			June	2.34	0.73	3.08	167	52	219	76	2.1
			July	1.34	0.30	1.64	93	20	113	82	1.2
August	0.77	0.18	0.95	53	12	66	81	0.67			
September	0.68	0.32	1.00	49	23	71	68	0.61			
12096500	PUYALLUP RIVER AT ALDERTON, WA.	438	October	1.85	1.04	2.89	704	395	1100	64	1.6
			November	2.52	1.45	3.97	990	567	1560	64	2.3
			December	3.57	2.79	6.37	1360	1060	2420	56	3.1
			January	3.48	1.79	5.28	1320	681	2000	66	3
			February	2.96	1.69	4.64	1230	702	1940	64	2.8
			March	2.89	1.00	3.89	1100	381	1480	74	2.5
			April	3.13	0.87	4.00	1230	342	1570	78	2.8
			May	3.67	1.10	4.77	1400	418	1810	77	3.2
			June	3.95	1.05	5.00	1550	412	1960	79	3.5
			July	3.60	0.65	4.25	1370	247	1610	85	3.1
August	2.35	0.44	2.80	894	168	1060	84	2			
September	1.69	0.50	2.19	663	197	861	77	1.5			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12096600	WHITE RIVER NEAR GREENWATER, WA.	16.2	October	4.52	0.56	5.08	63	7.9	71	89	3.9
			November	3.82	0.69	4.51	55	10	65	85	3.4
			December	3.12	0.81	3.93	44	11	55	79	2.7
			January	2.91	0.81	3.72	41	11	52	78	2.5
			February	2.51	0.16	2.66	39	2.5	41	94	2.4
			March	2.51	0.21	2.72	35	2.9	38	92	2.2
			April	*	*	3.13	*	*	46	*	*
			May	*	*	8.71	*	*	122	*	*
			June	*	*	19.00	*	*	276	*	*
			July	*	*	20.80	*	*	292	*	*
August	14.98	1.70	16.68	210	24	234	90	13			
September	8.36	1.31	9.67	121	19	140	86	7.5			
12097000	WHITE RIVER AT GREENWATER, WA.	216	October	2.03	0.51	2.54	380	95	475	80	1.8
			November	2.55	1.13	3.68	494	218	712	69	2.3
			December	3.14	1.51	4.66	589	284	873	67	2.7
			January	2.97	1.18	4.15	556	222	778	72	2.6
			February	2.59	0.78	3.38	533	161	694	77	2.5
			March	2.81	0.50	3.31	526	93	619	85	2.4
			April	*	*	4.28	*	*	828	*	*
			May	*	*	7.18	*	*	1350	*	*
			June	*	*	8.43	*	*	1630	*	*
			July	*	*	6.23	*	*	1170	*	*
August	3.47	0.32	3.79	650	60	710	92	3			
September	2.24	0.29	2.53	434	56	490	89	2			
12097500	GREENWATER RIVER AT GREENWATER, WA.	73.5	October	0.84	0.32	1.16	54	20	74	73	0.73
			November	1.73	1.06	2.80	114	70	184	62	1.6
			December	2.65	1.42	4.07	169	90	259	65	2.3
			January	2.67	1.32	4.00	170	84	255	67	2.3
			February	2.30	0.98	3.28	161	69	229	70	2.2
			March	2.51	0.56	3.07	160	36	195	82	2.2
			April	*	*	4.31	*	*	284	*	*
			May	*	*	6.82	*	*	435	*	*
			June	*	*	5.52	*	*	364	*	*
			July	2.15	0.15	2.29	137	9.2	146	94	1.9
August	0.99	0.04	1.03	63	2.5	66	96	0.86			
September	0.71	0.09	0.80	46	6.1	53	88	0.63			
12097850	WHITE RIVER BELOW CLEARWATER RIVER NEAR BUCKLEY WA.	375	October	1.43	0.51	1.94	466	166	632	74	1.2
			November	2.37	1.92	4.28	796	644	1440	55	2.1
			December	2.60	1.97	4.56	845	640	1490	57	2.3
			January	2.70	2.21	4.92	879	720	1600	55	2.3
			February	2.51	1.33	3.84	897	475	1370	65	2.4
			March	*	*	3.85	*	*	1250	*	*
			April	*	*	4.28	*	*	1440	*	*
			May	*	*	5.93	*	*	1930	*	*
			June	*	*	6.22	*	*	2090	*	*
			July	*	*	4.34	*	*	1410	*	*
August	2.36	0.24	2.60	766	78	844	91	2			
September	1.55	0.19	1.74	522	64	586	89	1.4			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12098500	WHITE RIVER NEAR BUCKLEY, WA.	401	October	*	*	2.10	*	*	732	*	*
			November	*	*	3.83	*	*	1380	*	*
			December	*	*	4.93	*	*	1720	*	*
			January	*	*	4.60	*	*	1600	*	*
			February	*	*	4.02	*	*	1530	*	*
			March	*	*	3.77	*	*	1310	*	*
			April	*	*	4.42	*	*	1590	*	*
			May	*	*	6.10	*	*	2120	*	*
			June	*	*	6.38	*	*	2290	*	*
			July	*	*	4.22	*	*	1470	*	*
August	*	*	2.54	*	*	884	*	*			
September	*	*	1.87	*	*	672	*	*			
12099600	BOISE CR. AT BUCKLEY, WA.	15.4	October	*	*	1.03	*	*	14	*	*
			November	*	*	3.40	*	*	47	*	*
			December	*	*	3.96	*	*	53	*	*
			January	*	*	4.32	*	*	58	*	*
			February	*	*	4.13	*	*	61	*	*
			March	*	*	3.37	*	*	45	*	*
			April	*	*	2.91	*	*	40	*	*
			May	*	*	2.31	*	*	31	*	*
			June	*	*	1.64	*	*	23	*	*
			July	*	*	1.12	*	*	15	*	*
August	*	*	0.69	*	*	9.2	*	*			
September	*	*	0.71	*	*	9.8	*	*			
12100000	WHITE RIVER AT BUCKLEY, WA.	427	October	*	*	0.44	*	*	164	*	*
			November	*	*	1.60	*	*	610	*	*
			December	*	*	2.52	*	*	933	*	*
			January	*	*	2.04	*	*	754	*	*
			February	*	*	2.48	*	*	1010	*	*
			March	*	*	1.30	*	*	480	*	*
			April	*	*	1.21	*	*	464	*	*
			May	*	*	1.52	*	*	563	*	*
			June	*	*	1.74	*	*	667	*	*
			July	*	*	1.28	*	*	473	*	*
August	*	*	0.94	*	*	350	*	*			
September	*	*	0.50	*	*	190	*	*			
12100496	WHITE R. NEAR AUBURN, WA.	464	October	*	*	0.72	*	*	289	*	*
			November	*	*	2.47	*	*	1030	*	*
			December	*	*	3.13	*	*	1260	*	*
			January	*	*	2.28	*	*	917	*	*
			February	*	*	3.28	*	*	1450	*	*
			March	*	*	1.45	*	*	585	*	*
			April	*	*	1.73	*	*	718	*	*
			May	*	*	1.79	*	*	719	*	*
			June	*	*	1.62	*	*	673	*	*
			July	*	*	1.09	*	*	439	*	*
August	*	*	1.15	*	*	463	*	*			
September	*	*	0.77	*	*	321	*	*			



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12100500	WHITE RIVER NEAR SUMNER, WA.	470	October	*	*	0.57	*	*	233	*	*
			November	*	*	1.47	*	*	620	*	*
			December	*	*	2.42	*	*	985	*	*
			January	*	*	2.14	*	*	871	*	*
			February	*	*	1.72	*	*	771	*	*
			March	*	*	0.85	*	*	347	*	*
			April	*	*	1.29	*	*	545	*	*
			May	*	*	2.80	*	*	1140	*	*
			June	*	*	3.29	*	*	1380	*	*
			July	*	*	0.93	*	*	379	*	*
August	*	*	0.35	*	*	144	*	*			
September	*	*	0.28	*	*	118	*	*			
12101500	PUYALLUP RIVER AT PUYALLUP, WA.	948	October	1.62	0.76	2.38	1330	623	1960	68	1.4
			November	2.44	1.51	3.94	2070	1280	3350	62	2.2
			December	3.19	2.17	5.35	2620	1780	4400	59	2.8
			January	3.26	1.94	5.20	2680	1590	4270	63	2.8
			February	2.87	1.47	4.34	2590	1330	3920	66	2.7
			March	2.97	0.96	3.93	2440	792	3230	76	2.6
			April	3.03	0.99	4.02	2580	839	3420	75	2.7
			May	3.67	1.15	4.81	3010	943	3960	76	3.2
			June	4.05	1.17	5.22	3440	995	4430	78	3.6
			July	3.08	0.74	3.83	2530	611	3150	81	2.7
August	2.03	0.52	2.54	1670	426	2090	80	1.8			
September	1.52	0.48	2.00	1290	410	1700	76	1.4			
12102140	CLEAR CREEK AT PIONEER WAY BELOW HATCHERY NEAR TACOMA, W	3.09	October	3.31	0.14	3.44	8.9	0.36	9.2	96	2.9
			November	2.59	0.78	3.37	7.2	2.2	9.3	77	2.3
			December	3.90	1.29	5.19	10	3.5	14	75	3.4
			January	4.79	2.21	7.00	13	5.9	19	68	4.2
			February	3.46	1.94	5.40	10	5.7	16	64	3.3
			March	3.69	0.70	4.39	9.9	1.9	12	84	3.2
			April	3.82	0.66	4.48	11	1.8	12	85	3.4
			May	3.48	0.04	3.51	9.3	0.09	9.4	99	3
			June	3.17	0.05	3.22	8.8	0.14	8.9	98	2.8
			July	3.21	0.01	3.22	8.6	0.04	8.6	100	2.8
August	3.11	0.02	3.13	8.3	0.05	8.4	99	2.7			
September	2.99	0.03	3.02	8.3	0.08	8.4	99	2.7			
12103400	GREEN RIVER BELOW INTAKE CREEK NEAR LESTER, WA.	34.8	October	0.95	0.32	1.27	29	9.7	38	75	0.82
			November	1.68	1.16	2.83	52	36	88	59	1.5
			December	2.62	2.66	5.28	79	80	159	50	2.3
			January	3.18	3.09	6.27	96	93	189	51	2.8
			February	2.51	1.53	4.04	83	51	134	62	2.4
			March	*	*	3.84	*	*	116	*	*
			April	*	*	5.21	*	*	163	*	*
			May	*	*	10.12	*	*	305	*	*
			June	*	*	7.09	*	*	221	*	*
			July	2.02	0.22	2.24	61	6.7	68	90	1.8
August	0.78	0.09	0.86	23	2.6	26	90	0.67			
September	0.69	0.16	0.85	22	4.8	26	82	0.62			

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12103500	SNOW CREEK NEAR LESTER, WA.	11.5	October	2.46	1.89	4.35	25	19	43	57	2.1
			November	4.52	3.70	8.22	47	38	85	55	4
			December	5.57	3.42	8.99	56	34	90	62	4.8
			January	3.70	2.70	6.40	37	27	64	58	3.2
			February	3.86	2.09	5.95	42	23	65	65	3.7
			March	3.83	1.14	4.97	38	11	50	77	3.3
			April	*	*	10.57	*	*	109	*	*
			May	*	*	15.19	*	*	152	*	*
			June	*	*	10.70	*	*	110	*	*
			July	3.40	0.38	3.78	34	3.8	38	90	2.9
			August	1.08	0.06	1.14	11	0.57	11	95	0.94
			September	0.93	0.42	1.36	9.6	4.4	14	69	0.84
12104000	FRIDAY CREEK NEAR LESTER, WA.	4.67	October	2.21	1.32	3.53	9	5.3	14	63	1.9
			November	4.21	2.72	6.93	18	11	29	61	3.8
			December	5.49	3.79	9.29	22	15	38	59	4.8
			January	4.62	3.06	7.68	19	12	31	60	4
			February	4.34	1.65	6.00	19	7.4	27	72	4.1
			March	4.12	1.08	5.20	17	4.4	21	79	3.6
			April	*	*	8.88	*	*	37	*	*
			May	*	*	14.41	*	*	58	*	*
			June	*	*	10.48	*	*	44	*	*
			July	3.35	0.36	3.71	14	1.5	15	90	2.9
			August	1.21	0.08	1.29	4.9	0.33	5.2	94	1
			September	1.13	0.43	1.56	4.7	1.8	6.5	73	1
12104500	GREEN RIVER NEAR LESTER, WA.	96.2	October	1.03	0.79	1.82	86	66	152	57	0.9
			November	2.62	2.27	4.88	225	196	421	54	2.3
			December	3.63	2.76	6.39	303	230	534	57	3.2
			January	3.11	2.65	5.75	259	221	480	54	2.7
			February	2.90	2.00	4.90	266	183	449	59	2.8
			March	*	*	4.71	*	*	393	*	*
			April	*	*	7.22	*	*	623	*	*
			May	*	*	9.24	*	*	771	*	*
			June	*	*	5.46	*	*	471	*	*
			July	1.69	0.17	1.86	141	14	155	91	1.5
			August	0.72	0.06	0.78	60	4.7	65	93	0.63
			September	0.60	0.22	0.83	52	19	71	73	0.54
12104700	GREEN CANYON CREEK NEAR LESTER, WA.	3.23	October	1.28	0.42	1.70	3.6	1.2	4.8	75	1.1
			November	2.56	1.46	4.02	7.4	4.2	12	64	2.3
			December	3.96	2.39	6.35	11	6.7	18	62	3.4
			January	5.81	3.17	8.98	16	8.9	25	65	5
			February	5.32	1.61	6.93	16	5	21	77	5.1
			March	4.83	1.15	5.99	14	3.2	17	81	4.2
			April	5.36	1.01	6.37	16	2.9	18	84	4.8
			May	4.69	0.56	5.25	13	1.6	15	89	4.1
			June	2.87	0.31	3.18	8.3	0.89	9.2	90	2.6
			July	1.69	0.07	1.76	4.7	0.19	4.9	96	1.5
			August	1.09	0.06	1.15	3.1	0.16	3.2	95	0.95
			September	0.89	0.18	1.07	2.6	0.53	3.1	83	0.8

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12105000	SMAY CREEK NEAR LESTER, WA.	8.56	October	2.90	1.32	4.22	22	9.8	31	69	2.5
			November	5.33	2.99	8.31	41	23	64	64	4.8
			December	6.75	2.90	9.65	50	22	72	70	5.9
			January	5.99	2.59	8.58	44	19	64	70	5.2
			February	4.99	2.17	7.17	41	18	58	70	4.8
			March	4.52	0.83	5.35	34	6.2	40	84	3.9
			April	*	*	8.77	*	*	67	*	*
			May	*	*	11.95	*	*	89	*	*
			June	*	*	8.97	*	*	69	*	*
			July	3.68	0.28	3.96	27	2.1	29	93	3.2
			August	1.73	0.07	1.80	13	0.52	13	96	1.5
			September	1.49	0.45	1.93	11	3.4	15	77	1.3
12105500	CHARLEY CREEK NEAR EAGLE GORGE, WA.	11.3	October	3.53	2.13	5.66	35	21	55	62	3.1
			November	6.54	3.06	9.60	66	31	97	68	5.9
			December	7.41	3.17	10.59	73	31	104	70	6.4
			January	5.87	3.70	9.57	57	36	94	61	5.1
			February	6.87	3.21	10.08	74	35	108	68	6.5
			March	5.17	1.82	6.99	51	18	68	74	4.5
			April	7.51	2.17	9.67	76	22	98	78	6.7
			May	7.84	2.02	9.86	77	20	97	80	6.8
			June	5.95	1.66	7.61	60	17	77	78	5.3
			July	3.07	0.44	3.51	30	4.3	34	88	2.7
			August	1.95	0.28	2.23	19	2.8	22	87	1.7
			September	1.59	0.39	1.98	16	3.9	20	80	1.4
12105700	N.F. GREEN RIVER NEAR PALMER, WA.	16.5	October	2.67	1.47	4.13	38	21	59	65	2.3
			November	5.77	4.64	10.41	85	69	154	55	5.2
			December	6.59	4.08	10.67	94	58	153	62	5.7
			January	6.72	3.72	10.44	96	53	149	64	5.8
			February	5.05	2.17	7.22	79	34	113	70	4.8
			March	4.75	1.19	5.94	68	17	85	80	4.1
			April	6.58	2.11	8.70	97	31	129	76	5.9
			May	6.15	0.84	6.99	88	12	100	88	5.3
			June	3.78	0.69	4.47	56	10	66	84	3.4
			July	1.61	0.23	1.84	23	3.2	26	88	1.4
			August	0.87	0.21	1.08	12	3.1	15	80	0.75
			September	1.41	1.17	2.58	21	17	38	55	1.3
12105710	NORTH FORK GREEN RIVER NEAR LEMOLO, WA.	16.7	October	1.84	0.87	2.70	27	13	39	68	1.6
			November	4.56	2.51	7.06	68	37	106	65	4.1
			December	6.36	3.93	10.29	92	57	149	62	5.5
			January	5.85	4.24	10.09	85	61	146	58	5.1
			February	4.77	2.57	7.34	76	41	117	65	4.5
			March	4.91	1.84	6.74	71	27	98	73	4.3
			April	6.41	1.29	7.70	96	19	115	83	5.7
			May	6.63	1.39	8.02	96	20	116	83	5.8
			June	3.57	0.98	4.55	53	15	68	78	3.2
			July	1.59	0.31	1.89	23	4.4	27	84	1.4
			August	0.66	0.18	0.83	9.5	2.6	12	79	0.57
			September	0.90	0.60	1.50	13	9	22	60	0.81

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12105900	GREEN R. BLW. HOWARD A. HANSON RESERVOIR, WA.	221	October	*	*	2.86	*	*	548	*	*
			November	*	*	6.41	*	*	1270	*	*
			December	*	*	8.07	*	*	1550	*	*
			January	*	*	8.45	*	*	1620	*	*
			February	*	*	7.37	*	*	1550	*	*
			March	*	*	6.21	*	*	1190	*	*
			April	*	*	6.90	*	*	1370	*	*
			May	*	*	6.67	*	*	1280	*	*
			June	*	*	3.72	*	*	738	*	*
			July	*	*	2.10	*	*	403	*	*
August	*	*	1.38	*	*	264	*	*			
September	*	*	1.64	*	*	324	*	*			
12106000	BEAR CREEK NEAR EAGLE GORGE, WA.	4.1	October	4.03	2.75	6.78	14	9.8	24	59	3.5
			November	6.35	4.03	10.38	23	15	38	61	5.7
			December	7.61	4.60	12.21	27	16	43	62	6.6
			January	6.16	3.89	10.05	22	14	36	61	5.3
			February	6.72	4.51	11.23	26	18	44	60	6.4
			March	5.40	2.29	7.70	19	8.1	27	70	4.7
			April	7.50	2.69	10.19	28	9.9	37	74	6.7
			May	5.57	1.96	7.53	20	7	27	74	4.8
			June	3.49	1.52	5.01	13	5.6	18	70	3.1
			July	1.78	0.47	2.25	6.3	1.7	8	79	1.5
August	0.99	0.29	1.28	3.5	1	4.6	78	0.86			
September	0.98	0.43	1.41	3.6	1.6	5.2	69	0.87			
12106500	GREEN R. NEAR PALMER, WA.	230	October	1.71	1.39	3.11	342	278	619	55	1.5
			November	3.95	3.08	7.04	815	636	1450	56	3.5
			December	5.18	3.86	9.04	1030	770	1800	57	4.5
			January	4.53	2.96	7.49	903	591	1490	60	3.9
			February	3.94	1.96	5.89	862	429	1290	67	3.7
			March	4.68	1.49	6.17	934	297	1230	76	4.1
			April	6.12	1.92	8.04	1260	396	1660	76	5.5
			May	6.48	1.73	8.21	1290	345	1640	79	5.6
			June	4.32	0.88	5.19	890	181	1070	83	3.9
			July	1.93	0.17	2.10	386	33	419	92	1.7
August	0.95	0.06	1.01	189	12	201	94	0.82			
September	0.88	0.32	1.20	182	66	248	73	0.79			
12106700	GREEN R. AT PURIFICATION PLANT NEAR PALMER, WA.	231	October	*	*	2.35	*	*	471	*	*
			November	*	*	6.11	*	*	1270	*	*
			December	*	*	7.89	*	*	1580	*	*
			January	*	*	8.17	*	*	1640	*	*
			February	*	*	7.01	*	*	1540	*	*
			March	*	*	5.99	*	*	1200	*	*
			April	*	*	6.48	*	*	1340	*	*
			May	*	*	6.21	*	*	1240	*	*
			June	*	*	3.28	*	*	678	*	*
			July	*	*	1.56	*	*	312	*	*
August	*	*	0.82	*	*	165	*	*			
September	*	*	1.15	*	*	237	*	*			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12107300	ICY CREEK NEAR BLACK DIAMOND, WA.	3.29	October	1.81	0.04	1.85	5.2	0.11	5.3	98	1.6
			November	3.22	0.06	3.28	9.5	0.19	9.7	98	2.9
			December	8.44	0.24	8.68	24	0.69	25	97	7.3
			January	13.52	1.25	14.77	39	3.6	42	92	12
			February	13.63	1.80	15.43	43	5.6	48	88	13
			March	11.80	0.09	11.89	34	0.27	34	99	10
			April	10.44	0.07	10.51	31	0.21	31	99	9.4
			May	8.81	0.06	8.87	25	0.17	25	99	7.6
			June	6.87	0.15	7.02	20	0.43	21	98	6.2
			July	5.51	0.09	5.59	16	0.25	16	98	4.8
August	3.08	0.02	3.10	8.8	0.07	8.8	99	2.7			
September	2.05	0.02	2.07	6	0.06	6.1	99	1.8			
12107500	GREEN RIVER NEAR BLACK DIAMOND, WA.	285	October	1.21	1.01	2.23	300	250	550	55	1.1
			November	2.73	2.15	4.88	698	548	1250	56	2.4
			December	3.44	3.81	7.25	850	942	1790	47	3
			January	3.70	1.66	5.36	914	410	1320	69	3.2
			February	3.18	1.53	4.71	862	415	1280	67	3
			March	3.89	0.99	4.88	961	245	1210	80	3.4
			April	4.92	1.10	6.02	1260	280	1540	82	4.4
			May	4.97	1.43	6.40	1230	354	1580	78	4.3
			June	3.15	0.72	3.86	804	183	987	81	2.8
			July	1.34	0.15	1.48	330	36	366	90	1.2
August	0.64	0.05	0.69	157	13	170	93	0.55			
September	0.57	0.24	0.81	146	62	208	70	0.51			
12108500	NEWAUKUM CREEK NEAR BLACK DIAMOND, WA.	27.4	October	0.89	0.17	1.06	21	4.1	25	84	0.77
			November	1.86	0.78	2.64	46	19	65	70	1.7
			December	2.99	1.13	4.11	71	27	98	73	2.6
			January	3.42	1.48	4.90	81	35	116	70	3
			February	2.92	1.15	4.06	76	30	106	72	2.8
			March	3.01	0.72	3.73	72	17	89	81	2.6
			April	2.35	0.49	2.84	58	12	70	83	2.1
			May	1.82	0.23	2.05	43	5.6	49	89	1.6
			June	1.38	0.22	1.61	34	5.5	39	86	1.2
			July	1.03	0.08	1.11	25	1.8	26	93	0.89
August	0.80	0.05	0.85	19	1.1	20	95	0.7			
September	0.74	0.09	0.82	18	2.2	20	89	0.66			
12111500	COVINGTON CREEK NEAR BLACK DIAMOND, WA.	13	October	0.22	0.13	0.35	2.4	1.5	3.9	63	0.19
			November	1.24	0.42	1.66	14	4.8	19	75	1.1
			December	4.13	1.10	5.23	47	12	59	79	3.6
			January	4.44	1.20	5.64	50	14	64	79	3.8
			February	3.45	0.79	4.24	43	9.7	52	81	3.3
			March	3.37	0.27	3.64	38	3	41	93	2.9
			April	2.85	0.30	3.16	33	3.5	37	90	2.6
			May	1.69	0.15	1.84	19	1.7	21	92	1.5
			June	0.89	0.13	1.02	10	1.5	12	88	0.8
			July	0.30	0.12	0.42	3.4	1.3	4.7	72	0.26
August	0.04	0.02	0.06	0.5	0.17	0.67	75	0.04			
September	0.03	0.07	0.11	0.38	0.86	1.2	31	0.03			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean	Mean	Mean	Mean	Mean	Mean BF	Mean	
				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12112500	BIG SOOS CREEK NEAR AUBURN, WA.	62.9	October	0.70	0.14	0.84	38	7.4	46	84	0.61
			November	1.57	0.33	1.90	88	19	107	83	1.4
			December	3.23	0.85	4.09	176	47	223	79	2.8
			January	3.53	0.98	4.51	193	53	246	78	3.1
			February	3.35	0.69	4.04	200	41	242	83	3.2
			March	3.21	0.50	3.71	175	27	203	86	2.8
			April	2.52	0.22	2.74	142	12	155	92	2.3
			May	1.79	0.12	1.91	98	6.5	104	94	1.6
			June	1.13	0.10	1.24	64	5.8	70	92	1
			July	0.82	0.05	0.87	45	2.8	47	94	0.71
			August	0.60	0.02	0.62	33	1.1	34	97	0.52
			September	0.54	0.05	0.60	30	3	34	91	0.48
12112600	BIG SOOS CREEK ABOVE HATCHERY, NEAR AUBURN, WA.	66.7	October	0.62	0.12	0.74	36	6.7	43	84	0.54
			November	1.26	0.56	1.82	75	33	109	69	1.1
			December	2.52	1.08	3.60	146	62	208	70	2.2
			January	3.18	1.23	4.41	184	71	255	72	2.8
			February	3.00	0.88	3.89	191	56	247	77	2.9
			March	2.99	0.55	3.54	173	32	205	84	2.6
			April	2.14	0.41	2.55	128	24	152	84	1.9
			May	1.50	0.17	1.67	87	9.7	97	90	1.3
			June	1.02	0.15	1.17	61	9.1	70	87	0.91
			July	0.71	0.06	0.77	41	3.5	44	92	0.61
			August	0.54	0.03	0.57	31	1.9	33	94	0.47
			September	0.49	0.05	0.55	29	3.1	33	90	0.44
12113000	GREEN RIVER NEAR AUBURN, WA.	399	October	*	*	1.83	*	*	633	*	*
			November	*	*	4.43	*	*	1590	*	*
			December	*	*	6.26	*	*	2170	*	*
			January	*	*	6.13	*	*	2120	*	*
			February	*	*	5.51	*	*	2090	*	*
			March	*	*	4.91	*	*	1700	*	*
			April	*	*	5.34	*	*	1910	*	*
			May	*	*	4.98	*	*	1730	*	*
			June	*	*	3.05	*	*	1090	*	*
			July	*	*	1.51	*	*	524	*	*
			August	*	*	0.85	*	*	295	*	*
			September	*	*	0.96	*	*	342	*	*
12113350	GREEN RIVER AT TUKWILA, WA.	440	October	*	*	1.69	*	*	645	*	*
			November	*	*	3.80	*	*	1500	*	*
			December	*	*	6.35	*	*	2420	*	*
			January	*	*	6.93	*	*	2650	*	*
			February	*	*	5.86	*	*	2450	*	*
			March	*	*	5.04	*	*	1920	*	*
			April	*	*	4.82	*	*	1900	*	*
			May	*	*	4.68	*	*	1790	*	*
			June	*	*	2.78	*	*	1100	*	*
			July	*	*	1.59	*	*	605	*	*
			August	*	*	0.99	*	*	376	*	*
			September	*	*	1.12	*	*	442	*	*

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12113500	NORTH FORK CEDAR RIVER NEAR LESTER, WA.	9.3	October	3.76	2.28	6.04	30	18	49	62	3.3
			November	5.53	4.33	9.86	46	36	82	56	5
			December	5.99	3.60	9.59	48	29	77	62	5.2
			January	4.65	2.67	7.33	38	22	59	64	4
			February	4.03	2.46	6.50	36	22	58	62	3.8
			March	3.95	0.84	4.80	32	6.8	39	82	3.4
			April	*	*	9.66	*	*	81	*	*
			May	*	*	19.55	*	*	158	*	*
			June	*	*	18.02	*	*	150	*	*
			July	*	*	8.05	*	*	65	*	*
August	2.21	0.09	2.30	18	0.75	19	96	1.9			
September	1.67	0.65	2.32	14	5.4	19	72	1.5			
12114000	SOUTH FORK CEDAR RIVER NEAR LESTER, WA.	6	October	2.48	1.58	4.05	13	8.2	21	61	2.1
			November	4.76	3.07	7.83	26	17	42	61	4.3
			December	5.89	3.96	9.85	31	21	51	60	5.1
			January	4.55	3.11	7.65	24	16	40	59	3.9
			February	4.13	2.25	6.38	24	13	36	65	3.9
			March	3.94	1.03	4.97	21	5.3	26	79	3.4
			April	*	*	8.61	*	*	46	*	*
			May	*	*	15.74	*	*	82	*	*
			June	*	*	11.63	*	*	63	*	*
			July	3.90	0.57	4.47	20	3	23	87	3.4
August	1.33	0.09	1.43	6.9	0.49	7.4	93	1.2			
September	1.27	0.41	1.68	6.8	2.2	9	76	1.1			
12114500	CEDAR R. BELOW BEAR CR., NEAR CEDAR FALLS, WA.	25.4	October	2.72	1.69	4.41	60	37	97	62	2.4
			November	6.08	3.80	9.87	138	86	225	62	5.4
			December	6.32	3.17	9.49	139	70	209	67	5.5
			January	4.96	2.73	7.69	109	60	169	65	4.3
			February	4.47	2.88	7.35	108	70	178	61	4.3
			March	*	*	6.50	*	*	143	*	*
			April	*	*	10.47	*	*	238	*	*
			May	*	*	14.21	*	*	313	*	*
			June	*	*	10.62	*	*	242	*	*
			July	4.11	0.43	4.55	91	9.5	100	90	3.6
August	1.60	0.07	1.67	35	1.5	37	96	1.4			
September	1.35	0.44	1.79	31	10	41	75	1.2			
12115000	CEDAR RIVER NEAR CEDAR FALLS, WA.	40.7	October	2.45	1.80	4.25	86	64	150	58	2.1
			November	5.05	4.19	9.24	184	153	337	55	4.5
			December	5.94	4.00	9.93	210	141	351	60	5.1
			January	5.07	3.69	8.76	179	130	309	58	4.4
			February	4.60	3.27	7.87	178	127	305	58	4.4
			March	*	*	6.88	*	*	243	*	*
			April	*	*	9.73	*	*	355	*	*
			May	*	*	12.94	*	*	457	*	*
			June	*	*	9.70	*	*	354	*	*
			July	3.74	0.57	4.31	132	20	152	87	3.2
August	1.54	0.14	1.68	54	5	59	92	1.3			
September	1.29	0.57	1.86	47	21	68	70	1.2			

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				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12115500	REX RIVER NEAR CEDAR FALLS, WA.	13.4	October	3.73	2.43	6.16	43	28	72	61	3.2
			November	7.32	5.15	12.47	88	62	150	59	6.6
			December	7.41	5.58	12.99	86	65	151	57	6.4
			January	6.21	5.33	11.53	72	62	134	54	5.4
			February	5.52	4.15	9.67	70	53	123	57	5.3
			March	5.67	2.25	7.92	66	26	92	72	4.9
			April	8.62	2.80	11.42	104	34	137	76	7.7
			May	10.94	2.91	13.85	127	34	161	79	9.5
			June	7.77	1.83	9.60	93	22	115	81	7
			July	3.29	0.67	3.96	38	7.8	46	83	2.9
			August	1.32	0.26	1.59	15	3.1	18	83	1.1
			September	1.56	1.02	2.58	19	12	31	60	1.4
12115700	BOULDER CREEK NEAR CEDAR FALLS, WA.	4.64	October	1.55	2.11	3.66	6.2	8.5	15	42	1.3
			November	6.17	5.59	11.76	26	23	49	52	5.5
			December	4.47	3.37	7.83	18	14	32	57	3.9
			January	4.46	4.38	8.84	18	18	36	50	3.9
			February	3.47	4.68	8.15	15	21	36	43	3.3
			March	4.95	2.50	7.45	20	10	30	66	4.3
			April	6.33	2.30	8.63	26	9.5	36	73	5.7
			May	5.70	1.36	7.06	23	5.5	28	81	4.9
			June	2.69	0.80	3.48	11	3.3	14	77	2.4
			July	0.97	0.62	1.59	3.9	2.5	6.4	61	0.84
			August	0.29	0.10	0.39	1.2	0.4	1.6	75	0.26
			September	0.34	0.43	0.77	1.4	1.8	3.2	44	0.3
12116500	CEDAR RIVER AT CEDAR FALLS, WA.	84.2	October	*	*	2.21	*	*	161	*	*
			November	*	*	4.59	*	*	346	*	*
			December	*	*	7.13	*	*	520	*	*
			January	*	*	6.75	*	*	493	*	*
			February	*	*	5.46	*	*	438	*	*
			March	*	*	4.86	*	*	355	*	*
			April	*	*	4.75	*	*	359	*	*
			May	*	*	5.43	*	*	397	*	*
			June	*	*	5.16	*	*	389	*	*
			July	*	*	2.60	*	*	190	*	*
			August	*	*	1.58	*	*	115	*	*
			September	*	*	1.36	*	*	103	*	*
12116700	MIDDLE FORK TAYLOR CREEK NEAR SELLECK, WA.	5.17	October	3.87	1.28	5.15	17	5.7	23	75	3.4
			November	7.96	4.14	12.10	37	19	56	66	7.1
			December	9.87	4.02	13.88	44	18	62	71	8.6
			January	9.03	2.43	11.45	40	11	51	79	7.8
			February	6.86	2.82	9.68	34	14	48	71	6.5
			March	7.05	1.40	8.46	32	6.3	38	83	6.1
			April	8.65	2.82	11.48	40	13	53	75	7.8
			May	7.36	0.91	8.27	33	4.1	37	89	6.4
			June	4.24	0.43	4.67	20	2	22	91	3.8
			July	2.85	0.21	3.07	13	0.96	14	93	2.5
			August	1.99	0.15	2.14	8.9	0.68	9.6	93	1.7
			September	2.16	1.15	3.31	10	5.3	15	65	1.9



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12116800	NORTH FORK TAYLOR CREEK NEAR SELLECK, WA.	3.77	October	3.14	1.18	4.33	10	3.9	14	73	2.7
			November	7.02	3.08	10.11	24	10	34	69	6.3
			December	8.63	3.39	12.02	28	11	39	72	7.5
			January	6.77	2.56	9.33	22	8.4	30	73	5.9
			February	5.63	2.72	8.34	20	9.8	30	67	5.4
			March	6.00	1.70	7.70	20	5.6	25	78	5.2
			April	6.32	2.54	8.86	21	8.6	30	71	5.7
			May	5.01	1.04	6.05	16	3.4	20	83	4.3
			June	2.90	0.57	3.47	9.8	1.9	12	84	2.6
			July	1.74	0.33	2.07	5.7	1.1	6.8	84	1.5
			August	1.03	0.12	1.15	3.4	0.39	3.8	90	0.89
			September	1.36	1.09	2.45	4.6	3.7	8.3	55	1.2
12117000	TAYLOR CREEK NEAR SELLECK, WA.	17.2	October	2.48	0.73	3.21	37	11	48	77	2.2
			November	5.29	2.05	7.34	82	32	113	72	4.7
			December	7.64	2.47	10.11	114	37	151	76	6.6
			January	8.20	3.17	11.38	122	47	170	72	7.1
			February	7.52	1.98	9.50	123	32	156	79	7.2
			March	7.28	1.27	8.54	109	19	127	85	6.3
			April	7.02	1.05	8.07	108	16	124	87	6.3
			May	6.20	0.63	6.83	92	9.4	102	91	5.4
			June	4.20	0.63	4.83	65	9.7	74	87	3.8
			July	2.96	0.25	3.21	44	3.7	48	92	2.6
			August	2.01	0.14	2.15	30	2.1	32	93	1.7
			September	1.85	0.41	2.27	29	6.4	35	82	1.7
12117500	CEDAR RIVER NEAR LANDSBURG, WA.	121	October	*	*	3.76	*	*	394	*	*
			November	*	*	6.60	*	*	716	*	*
			December	*	*	8.88	*	*	931	*	*
			January	*	*	9.28	*	*	974	*	*
			February	*	*	7.86	*	*	905	*	*
			March	*	*	7.59	*	*	797	*	*
			April	*	*	7.16	*	*	776	*	*
			May	*	*	7.53	*	*	790	*	*
			June	*	*	6.80	*	*	737	*	*
			July	*	*	4.58	*	*	480	*	*
			August	*	*	3.38	*	*	354	*	*
			September	*	*	3.00	*	*	326	*	*
12118400	ROCK CREEK AT STATE HWY 5A NEAR RAVENSDALE, WA.	11.2	October	0.69	0.01	0.70	6.7	0.08	6.8	99	0.6
			November	0.95	0.41	1.35	9.5	4.1	14	70	0.85
			December	2.16	0.35	2.51	21	3.4	24	86	1.9
			January	2.53	0.23	2.76	25	2.2	27	92	2.2
			February	2.86	0.19	3.05	30	2	32	94	2.7
			March	2.87	0.10	2.97	28	0.96	29	97	2.5
			April	2.19	0.03	2.22	22	0.26	22	99	2
			May	1.85	0.02	1.87	18	0.2	18	99	1.6
			June	1.27	0.01	1.28	13	0.1	13	99	1.1
			July	0.96	0.01	0.97	9.3	0.11	9.5	99	0.83
			August	0.77	0.01	0.78	7.5	0.05	7.6	99	0.67
			September	0.64	0.01	0.65	6.4	0.09	6.5	99	0.57

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12118500	ROCK CREEK NEAR MAPLE VALLEY, WA.	12.6	October	0.54	0.02	0.56	5.9	0.24	6.1	96	0.47
			November	0.99	0.14	1.13	11	1.6	13	88	0.89
			December	2.28	0.36	2.64	25	3.9	29	86	2
			January	3.06	0.51	3.57	33	5.6	39	86	2.7
			February	3.19	0.27	3.46	38	3.3	41	92	3
			March	3.13	0.21	3.33	34	2.2	36	94	2.7
			April	2.25	0.05	2.29	25	0.52	26	98	2
			May	1.64	0.03	1.67	18	0.27	18	99	1.4
			June	1.07	0.03	1.09	12	0.3	12	98	0.96
			July	0.80	0.02	0.81	8.7	0.17	8.9	98	0.69
			August	0.57	0.02	0.58	6.2	0.17	6.3	97	0.49
			September	0.47	0.02	0.49	5.3	0.18	5.5	97	0.42
12119000	CEDAR RIVER AT RENTON, WA.	184	October	*	*	2.18	*	*	347	*	*
			November	*	*	4.45	*	*	734	*	*
			December	*	*	6.65	*	*	1060	*	*
			January	*	*	6.83	*	*	1090	*	*
			February	*	*	6.21	*	*	1090	*	*
			March	*	*	5.48	*	*	874	*	*
			April	*	*	4.78	*	*	788	*	*
			May	*	*	4.52	*	*	721	*	*
			June	*	*	3.86	*	*	636	*	*
			July	*	*	1.89	*	*	302	*	*
			August	*	*	1.22	*	*	195	*	*
			September	*	*	1.39	*	*	229	*	*
12119500	MAY CREEK NEAR RENTON, WA.	12.5	October	0.60	0.18	0.78	6.5	1.9	8.4	77	0.52
			November	1.67	0.64	2.31	19	7.2	26	72	1.5
			December	2.98	1.17	4.14	32	13	45	72	2.6
			January	3.23	1.51	4.74	35	16	51	68	2.8
			February	2.47	1.30	3.77	29	15	45	66	2.4
			March	2.44	0.93	3.37	26	10	37	72	2.1
			April	1.58	0.22	1.80	18	2.5	20	88	1.4
			May	0.76	0.09	0.85	8.2	0.96	9.2	89	0.66
			June	0.45	0.18	0.63	5	2	7	72	0.4
			July	0.32	0.03	0.35	3.5	0.29	3.8	92	0.28
			August	0.27	0.02	0.29	2.9	0.16	3.1	95	0.24
			September	0.27	0.06	0.33	3.1	0.64	3.7	83	0.24
12119600	MAY CREEK AT MOUTH, NEAR RENTON, WA.	12.7	October	0.54	0.07	0.61	6	0.74	6.7	89	0.47
			November	1.06	0.50	1.56	12	5.6	18	68	0.95
			December	2.90	1.30	4.20	32	14	46	69	2.5
			January	3.22	1.74	4.96	35	19	55	65	2.8
			February	2.68	0.87	3.55	32	11	43	76	2.6
			March	2.22	0.52	2.74	24	5.7	30	81	1.9
			April	1.72	0.45	2.17	20	5.1	25	79	1.5
			May	0.95	0.13	1.08	10	1.4	12	88	0.83
			June	0.56	0.16	0.71	6.3	1.8	8.1	78	0.5
			July	0.43	0.03	0.45	4.7	0.3	5	94	0.37
			August	0.36	0.02	0.38	4	0.2	4.2	95	0.31
			September	0.41	0.11	0.52	4.7	1.2	5.9	79	0.37

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12119700	COAL CREEK NEAR BELLEVUE, WA.	6.8	October	0.50	0.11	0.61	2.9	0.63	3.6	82	0.43
			November	0.97	0.47	1.44	5.9	2.9	8.8	67	0.87
			December	2.39	1.22	3.61	14	7.2	21	66	2.1
			January	3.81	1.89	5.69	22	11	34	67	3.3
			February	2.53	0.73	3.26	16	4.7	21	78	2.4
			March	2.42	0.46	2.88	14	2.7	17	84	2.1
			April	1.78	0.29	2.06	11	1.8	13	86	1.6
			May	1.15	0.11	1.26	6.8	0.67	7.4	91	0.99
			June	0.76	0.37	1.14	4.7	2.3	6.9	67	0.68
			July	0.60	0.04	0.64	3.5	0.21	3.8	94	0.52
	August	0.53	0.05	0.58	3.1	0.31	3.4	91	0.46		
	September	0.50	0.09	0.59	3	0.54	3.6	85	0.45		
12120000	MERCER CREEK NEAR BELLEVUE, WA.	12	October	*	*	1.57	*	*	16	*	*
			November	*	*	2.88	*	*	31	*	*
			December	*	*	3.85	*	*	40	*	*
			January	*	*	3.89	*	*	40	*	*
			February	*	*	3.02	*	*	34	*	*
			March	*	*	2.92	*	*	30	*	*
			April	*	*	2.09	*	*	22	*	*
			May	*	*	1.42	*	*	15	*	*
			June	*	*	1.16	*	*	13	*	*
			July	*	*	0.85	*	*	8.9	*	*
	August	*	*	0.83	*	*	8.6	*	*		
	September	*	*	1.04	*	*	11	*	*		
12120500	JUANITA CREEK NEAR KIRKLAND, WA.	6.69	October	0.74	0.40	1.14	4.3	2.3	6.6	65	0.64
			November	1.60	0.89	2.49	9.6	5.3	15	64	1.4
			December	2.33	1.36	3.69	14	7.9	21	63	2
			January	2.40	1.31	3.70	14	7.6	21	65	2.1
			February	1.92	0.70	2.61	12	4.5	17	73	1.8
			March	2.03	0.68	2.72	12	4	16	75	1.8
			April	1.52	0.38	1.89	9.1	2.3	11	80	1.4
			May	1.04	0.26	1.30	6	1.5	7.6	80	0.9
			June	0.76	0.26	1.01	4.5	1.5	6.1	75	0.68
			July	0.63	0.11	0.74	3.7	0.63	4.3	85	0.55
	August	0.55	0.11	0.66	3.2	0.63	3.8	84	0.48		
	September	0.60	0.22	0.82	3.6	1.3	4.9	73	0.54		
12120600	ISSAQUAH CREEK NEAR HOBART, WA.	17.6	October	0.90	0.32	1.22	14	4.9	19	74	0.78
			November	3.12	1.85	4.97	49	29	78	63	2.8
			December	3.73	1.58	5.30	57	24	81	70	3.2
			January	3.56	2.05	5.61	54	31	86	63	3.1
			February	3.10	1.67	4.77	52	28	80	65	3
			March	3.82	0.98	4.80	58	15	73	80	3.3
			April	2.93	0.76	3.68	46	12	58	79	2.6
			May	1.98	0.31	2.29	30	4.7	35	86	1.7
			June	1.68	0.29	1.96	26	4.5	31	85	1.5
			July	1.06	0.27	1.33	16	4.1	20	80	0.92
	August	0.76	0.06	0.82	12	0.89	12	93	0.66		
	September	0.64	0.08	0.71	10	1.2	11	89	0.57		

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12121000	ISSAQUAH CREEK NEAR ISSAQUAH, WA.	27	October	1.24	0.38	1.63	29	9	38	76	1.1
			November	2.70	0.96	3.67	65	23	89	74	2.4
			December	3.86	1.36	5.22	90	32	122	74	3.3
			January	3.91	1.61	5.51	91	38	129	71	3.4
			February	3.62	1.45	5.07	93	37	130	71	3.4
			March	3.52	0.64	4.16	82	15	97	85	3.1
			April	2.76	0.45	3.21	67	11	78	86	2.5
			May	1.84	0.33	2.17	43	7.7	51	85	1.6
			June	1.31	0.31	1.62	32	7.4	39	81	1.2
			July	0.97	0.09	1.06	23	2	25	92	0.84
			August	0.76	0.05	0.81	18	1.1	19	94	0.66
			September	0.77	0.18	0.94	19	4.2	23	81	0.69
12121510	EAST FORK ISSAQUAH CREEK AT MOUTH AT ISSAQUAH WA.	9.5	October	0.82	0.35	1.17	6.7	2.9	9.6	70	0.71
			November	1.77	1.11	2.88	15	9.5	25	61	1.6
			December	4.73	2.10	6.84	39	17	56	69	4.1
			January	3.19	0.94	4.13	26	7.7	34	77	2.8
			February	3.14	1.08	4.22	28	9.8	38	74	3
			March	3.15	0.75	3.90	26	6.1	32	81	2.7
			April	2.77	0.59	3.36	24	5	29	83	2.5
			May	1.71	0.20	1.91	14	1.6	16	90	1.5
			June	1.08	0.14	1.22	9.2	1.1	10	89	0.97
			July	0.61	0.06	0.67	5	0.49	5.5	91	0.53
			August	0.50	0.12	0.62	4.1	0.95	5.1	81	0.44
			September	0.59	0.21	0.80	5	1.8	6.8	74	0.53
12121600	ISSAQUAH CREEK NEAR MOUTH, NEAR ISSAQUAH, WA.	56.6	October	0.79	0.30	1.09	39	15	54	72	0.69
			November	1.82	1.25	3.06	92	63	155	59	1.6
			December	3.01	2.06	5.06	148	101	248	59	2.6
			January	3.28	2.36	5.64	161	116	277	58	2.8
			February	2.94	1.37	4.31	158	74	232	68	2.8
			March	3.08	0.97	4.05	151	47	199	76	2.7
			April	2.43	0.64	3.07	123	33	156	79	2.2
			May	1.63	0.31	1.94	80	15	95	84	1.4
			June	1.18	0.35	1.53	60	18	78	77	1.1
			July	0.81	0.14	0.95	40	7.1	47	85	0.7
			August	0.60	0.08	0.68	29	3.7	33	89	0.52
			September	0.60	0.16	0.75	30	8.1	38	79	0.53
12121700	TIBBETTS CREEK NEAR ISSAQUAH, WA.	3.9	October	0.27	0.16	0.43	0.91	0.55	1.5	62	0.23
			November	1.27	0.71	1.98	4.4	2.5	6.9	64	1.1
			December	3.61	2.08	5.69	12	7	19	63	3.1
			January	3.94	2.44	6.38	13	8.3	22	62	3.4
			February	2.91	1.18	4.08	11	4.4	15	71	2.8
			March	2.85	0.98	3.84	9.7	3.3	13	74	2.5
			April	1.96	0.45	2.41	6.9	1.6	8.4	81	1.8
			May	0.82	0.10	0.92	2.8	0.35	3.1	89	0.71
			June	0.36	0.27	0.63	1.2	0.95	2.2	57	0.32
			July	0.19	0.04	0.23	0.65	0.13	0.78	84	0.17
			August	0.11	0.04	0.15	0.38	0.13	0.5	74	0.1
			September	0.13	0.05	0.18	0.47	0.16	0.63	74	0.12

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12122500	BEAR CREEK NEAR REDMOND, WA.	13.9	October	0.90	0.35	1.24	11	4.2	15	72	0.78
			November	1.94	0.80	2.74	24	10	34	71	1.7
			December	3.34	1.08	4.41	40	13	53	76	2.9
			January	2.89	1.10	3.99	35	13	48	73	2.5
			February	2.56	1.25	3.81	34	17	50	67	2.4
			March	2.36	0.53	2.88	28	6.3	35	82	2
			April	1.84	0.48	2.31	23	5.9	29	79	1.6
			May	1.28	0.27	1.55	15	3.2	19	83	1.1
			June	0.89	0.22	1.12	11	2.8	14	80	0.8
			July	0.66	0.09	0.74	7.9	1	8.9	88	0.57
			August	0.58	0.06	0.64	7	0.69	7.7	91	0.51
			September	0.65	0.10	0.75	8.1	1.3	9.4	87	0.58
12123000	COTTAGE LAKE CREEK NEAR REDMOND, WA.	10.7	October	0.79	0.10	0.89	7.3	0.96	8.3	88	0.68
			November	1.26	0.32	1.58	12	3.1	15	80	1.1
			December	1.86	0.41	2.27	17	3.8	21	82	1.6
			January	2.20	0.60	2.80	20	5.6	26	79	1.9
			February	2.01	0.52	2.53	20	5.3	26	79	1.9
			March	1.79	0.21	2.00	17	1.9	19	90	1.6
			April	1.37	0.12	1.49	13	1.1	14	92	1.2
			May	1.09	0.07	1.16	10	0.63	11	94	0.94
			June	0.86	0.06	0.93	8.3	0.6	8.9	93	0.77
			July	0.66	0.03	0.69	6.1	0.31	6.4	95	0.57
			August	0.60	0.03	0.63	5.6	0.25	5.8	96	0.52
			September	0.62	0.04	0.66	5.9	0.38	6.3	94	0.55
12124000	EVANS CREEK (ABOVE MOUTH) NEAR REDMOND, WA.	13	October	0.87	0.14	1.02	9.9	1.6	11	86	0.76
			November	1.43	0.52	1.95	17	6.1	23	73	1.3
			December	2.68	0.95	3.63	30	11	41	74	2.3
			January	3.13	1.05	4.18	35	12	47	75	2.7
			February	2.52	0.58	3.09	31	7.2	38	81	2.4
			March	2.52	0.48	3.00	28	5.4	34	84	2.2
			April	1.83	0.28	2.11	21	3.2	25	87	1.6
			May	1.31	0.13	1.44	15	1.4	16	91	1.1
			June	0.87	0.18	1.06	10	2.1	12	83	0.78
			July	0.69	0.04	0.73	7.8	0.45	8.2	95	0.6
			August	0.63	0.05	0.68	7.1	0.58	7.7	93	0.55
			September	0.70	0.08	0.78	8.2	0.91	9.1	90	0.63
12124500	BEAR CREEK AT REDMOND, WA.	48.2	October	0.78	0.23	1.01	33	9.6	42	77	0.68
			November	1.52	0.61	2.13	66	26	92	71	1.4
			December	2.15	0.84	3.00	90	35	125	72	1.9
			January	2.47	1.07	3.54	103	45	148	70	2.1
			February	2.43	0.95	3.38	111	44	155	72	2.3
			March	2.25	0.74	2.99	94	31	125	75	2
			April	1.64	0.32	1.95	71	14	84	84	1.5
			May	1.07	0.20	1.27	45	8.2	53	85	0.93
			June	0.72	0.19	0.91	31	8.1	39	79	0.65
			July	0.57	0.05	0.62	24	2.2	26	92	0.49
			August	0.50	0.04	0.54	21	1.6	22	93	0.43
			September	0.51	0.08	0.59	22	3.4	25	87	0.45

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12125000	SAMMAMISH RIVER NEAR REDMOND, WA.	150	October	0.81	0.08	0.88	105	9.9	115	91	0.7
			November	1.60	0.13	1.72	214	17	232	93	1.4
			December	2.98	0.35	3.33	387	46	433	89	2.6
			January	3.58	0.35	3.93	466	45	511	91	3.1
			February	3.39	0.40	3.78	483	57	540	90	3.2
			March	3.56	0.31	3.87	464	40	503	92	3.1
			April	2.79	0.11	2.91	376	15	391	96	2.5
			May	1.92	0.09	2.01	249	12	262	95	1.7
			June	1.24	0.06	1.29	167	7.4	174	96	1.1
			July	0.86	0.03	0.89	111	4	115	97	0.74
August	0.59	0.01	0.60	77	1.6	78	98	0.51			
September	0.56	0.02	0.58	76	2.7	79	97	0.51			
12125200	SAMMAMISH RIVER NEAR WOODINVILLE, WA.	157	October	0.73	0.16	0.89	100	21	121	82	0.64
			November	1.68	0.49	2.17	237	69	305	78	1.5
			December	3.14	1.11	4.24	427	151	578	74	2.7
			January	3.47	1.24	4.70	472	168	640	74	3
			February	2.92	0.78	3.69	436	116	552	79	2.8
			March	2.97	0.59	3.56	405	81	485	83	2.6
			April	2.19	0.39	2.58	309	54	363	85	2
			May	1.58	0.18	1.75	214	24	239	90	1.4
			June	1.09	0.22	1.31	153	32	185	83	0.98
			July	0.72	0.10	0.82	98	13	111	88	0.62
August	0.49	0.05	0.54	67	6.7	74	91	0.43			
September	0.53	0.09	0.62	75	13	88	86	0.48			
12125500	BEAR CREEK AT WOODINVILLE, WA.	15.3	October	0.87	0.26	1.13	12	3.5	15	77	0.76
			November	1.18	0.40	1.58	16	5.5	22	74	1.1
			December	2.09	1.38	3.47	28	18	46	60	1.8
			January	2.68	1.48	4.16	36	20	55	64	2.3
			February	2.19	0.73	2.92	32	11	43	75	2.1
			March	1.68	0.38	2.06	22	5.1	27	81	1.5
			April	1.35	0.32	1.67	19	4.3	23	81	1.2
			May	0.99	0.15	1.13	13	1.9	15	87	0.86
			June	0.71	0.14	0.85	9.7	2	12	83	0.63
			July	0.54	0.05	0.59	7.2	0.64	7.8	92	0.47
August	0.45	0.05	0.50	6	0.69	6.6	90	0.39			
September	0.53	0.11	0.64	7.3	1.4	8.8	84	0.48			
12126000	NORTH CREEK NEAR BOTHELL, WA.	24.6	October	0.60	0.19	0.79	13	3.9	17	77	0.52
			November	1.18	0.52	1.69	26	11	37	70	1.1
			December	2.22	0.86	3.08	47	18	66	72	1.9
			January	2.75	1.11	3.86	59	24	82	71	2.4
			February	2.39	0.88	3.27	56	21	77	73	2.3
			March	2.13	0.61	2.74	45	13	58	78	1.8
			April	1.35	0.27	1.62	30	6	36	83	1.2
			May	0.82	0.20	1.02	17	4.3	22	80	0.71
			June	0.54	0.15	0.69	12	3.3	15	78	0.48
			July	0.38	0.05	0.43	8.2	1	9.2	89	0.33
August	0.35	0.03	0.38	7.4	0.7	8.1	91	0.3			
September	0.40	0.07	0.47	8.7	1.5	10	85	0.35			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12126500	SAMMAMISH RIVER AT BOTHELL, WA.	212	October	0.76	0.11	0.86	139	19	159	88	0.66
			November	1.52	0.32	1.83	288	60	348	83	1.4
			December	2.70	0.42	3.12	497	77	574	87	2.3
			January	3.10	0.59	3.69	570	108	678	84	2.7
			February	2.99	0.48	3.47	603	97	700	86	2.8
			March	2.94	0.31	3.25	541	57	598	90	2.6
			April	2.25	0.18	2.43	427	34	462	93	2
			May	1.62	0.14	1.76	298	25	323	92	1.4
			June	1.04	0.13	1.16	197	24	221	89	0.93
			July	0.74	0.04	0.78	135	7.4	143	95	0.64
			August	0.53	0.02	0.56	98	4.2	102	96	0.46
			September	0.53	0.04	0.56	100	7.4	107	93	0.47
12127100	SWAMP CREEK AT KENMORE, WA.	23.1	October	0.52	0.27	0.78	10	5.3	16	66	0.45
			November	1.17	0.66	1.83	24	14	38	64	1
			December	2.32	1.34	3.66	46	27	73	63	2
			January	2.55	1.29	3.84	51	26	77	66	2.2
			February	1.93	0.91	2.84	42	20	62	68	1.8
			March	2.02	0.81	2.83	40	16	57	71	1.8
			April	1.26	0.41	1.67	26	8.5	35	75	1.1
			May	0.69	0.23	0.93	14	4.7	19	75	0.6
			June	0.44	0.18	0.62	9	3.8	13	70	0.39
			July	0.31	0.08	0.39	6.2	1.5	7.7	80	0.27
			August	0.28	0.08	0.35	5.5	1.6	7.1	78	0.24
			September	0.35	0.15	0.50	7.3	3	10	71	0.32
12127300	LYON CREEK AT LAKE FOREST PARK, WA.	3.67	October	0.79	0.23	1.02	2.5	0.73	3.2	77	0.68
			November	1.32	1.03	2.35	4.4	3.4	7.7	56	1.2
			December	2.10	1.56	3.66	6.7	5	12	57	1.8
			January	3.05	1.75	4.80	9.7	5.6	15	63	2.6
			February	1.91	0.84	2.74	6.7	2.9	9.6	70	1.8
			March	1.91	0.62	2.53	6.1	2	8.1	76	1.7
			April	1.45	0.52	1.98	4.8	1.7	6.5	73	1.3
			May	1.09	0.20	1.29	3.5	0.64	4.1	85	0.95
			June	0.82	0.30	1.11	2.7	0.97	3.7	73	0.73
			July	0.61	0.08	0.69	1.9	0.25	2.2	89	0.53
			August	0.55	0.13	0.68	1.7	0.42	2.2	81	0.48
			September	0.57	0.15	0.72	1.9	0.49	2.4	80	0.51
12127600	MCALEER CREEK AT LAKE FOREST PARK, WA.	7.8	October	1.50	0.13	1.63	10	0.9	11	92	1.3
			November	1.89	0.55	2.45	13	3.9	17	77	1.7
			December	3.02	0.84	3.85	20	5.7	26	78	2.6
			January	3.27	0.85	4.13	22	5.8	28	79	2.8
			February	2.31	0.46	2.77	17	3.4	21	83	2.2
			March	2.37	0.46	2.82	16	3.1	19	84	2.1
			April	1.74	0.31	2.05	12	2.1	14	85	1.6
			May	1.31	0.13	1.44	8.9	0.89	9.7	91	1.1
			June	1.08	0.22	1.30	7.5	1.5	9.1	83	0.97
			July	1.02	0.04	1.06	6.9	0.3	7.2	96	0.88
			August	0.97	0.05	1.03	6.6	0.37	6.9	95	0.84
			September	1.18	0.17	1.35	8.2	1.2	9.4	87	1.1

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12128000	THORNTON CREEK NEAR SEATTLE, WA.	12.1	October	0.83	0.21	1.03	8.7	2.2	11	80	0.72
			November	1.06	0.38	1.44	11	4.1	16	74	0.95
			December	1.36	0.48	1.83	14	5	19	74	1.2
			January	1.55	0.50	2.05	16	5.2	22	76	1.3
			February	1.25	0.35	1.61	14	4.1	18	78	1.2
			March	1.33	0.31	1.63	14	3.2	17	81	1.2
			April	1.01	0.24	1.25	11	2.5	14	81	0.91
			May	0.78	0.13	0.91	8.2	1.4	9.6	85	0.67
			June	0.62	0.15	0.77	6.8	1.6	8.4	81	0.56
			July	0.52	0.08	0.60	5.4	0.88	6.3	86	0.45
			August	0.54	0.07	0.61	5.7	0.77	6.4	88	0.47
			September	0.69	0.12	0.81	7.5	1.3	8.8	85	0.62
12130500	S. F. SKYKOMISH RIVER NEAR SKYKOMISH, WA.	135	October	2.90	2.15	5.05	340	252	592	57	2.5
			November	3.66	2.00	5.66	442	242	685	65	3.3
			December	4.21	1.75	5.96	492	205	698	71	3.6
			January	2.66	1.53	4.19	311	179	490	63	2.3
			February	3.33	1.62	4.95	428	209	636	67	3.2
			March	*	*	5.62	*	*	658	*	*
			April	*	*	8.06	*	*	975	*	*
			May	*	*	15.00	*	*	1760	*	*
			June	*	*	15.77	*	*	1910	*	*
			July	*	*	8.67	*	*	1020	*	*
			August	3.34	0.26	3.60	391	31	422	93	2.9
			September	2.07	0.33	2.40	250	40	290	86	1.9
12131000	BECKLER RIVER NEAR SKYKOMISH, WA.	96.5	October	2.18	2.30	4.48	183	192	375	49	1.9
			November	5.07	2.87	7.94	438	248	686	64	4.5
			December	4.39	2.31	6.70	367	194	561	65	3.8
			January	2.79	2.05	4.84	234	172	405	58	2.4
			February	3.22	2.47	5.69	296	227	523	57	3.1
			March	*	*	6.63	*	*	555	*	*
			April	*	*	9.51	*	*	823	*	*
			May	*	*	15.79	*	*	1320	*	*
			June	*	*	14.89	*	*	1290	*	*
			July	*	*	6.75	*	*	565	*	*
			August	2.02	0.11	2.12	169	8.9	178	95	1.7
			September	1.64	0.28	1.91	142	24	165	86	1.5
12132000	MILLER RIVER AT MILLER RIVER, WA.	45.6	October	3.23	3.67	6.90	128	145	273	47	2.8
			November	5.25	4.74	9.99	215	194	408	53	4.7
			December	3.62	3.66	7.29	143	145	288	50	3.1
			January	3.59	2.73	6.32	142	108	250	57	3.1
			February	3.53	3.19	6.72	153	138	292	53	3.4
			March	*	*	6.93	*	*	274	*	*
			April	*	*	10.06	*	*	411	*	*
			May	*	*	15.42	*	*	610	*	*
			June	*	*	15.62	*	*	639	*	*
			July	*	*	9.22	*	*	365	*	*
			August	2.44	0.37	2.81	97	15	111	87	2.1
			September	1.43	1.14	2.57	58	47	105	56	1.3



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12133000	S.F. SKYKOMISH RIVER NEAR INDEX, WA.	355	October	2.79	2.50	5.29	860	770	1630	53	2.4
			November	4.37	4.06	8.43	1390	1290	2680	52	3.9
			December	4.92	5.31	10.23	1520	1640	3150	48	4.3
			January	4.31	3.88	8.20	1330	1200	2520	53	3.7
			February	3.59	2.76	6.34	1210	932	2140	57	3.4
			March	*	*	6.18	*	*	1900	*	*
			April	*	*	8.50	*	*	2710	*	*
			May	*	*	13.70	*	*	4220	*	*
			June	*	*	13.57	*	*	4320	*	*
			July	*	*	7.22	*	*	2220	*	*
August	2.44	0.30	2.74	751	93	845	89	2.1			
September	1.80	0.93	2.73	572	296	868	66	1.6			
12133500	TROUBLESOME CREEK NEAR INDEX, WA.	10.6	October	5.35	4.33	9.68	49	40	89	55	4.6
			November	8.94	5.27	14.21	85	50	135	63	8
			December	8.92	7.00	15.92	82	64	146	56	7.7
			January	6.49	5.80	12.29	60	53	113	53	5.6
			February	3.94	3.36	7.31	40	34	74	54	3.8
			March	*	*	10.42	*	*	96	*	*
			April	*	*	13.78	*	*	131	*	*
			May	*	*	18.43	*	*	169	*	*
			June	*	*	19.32	*	*	184	*	*
			July	*	*	12.85	*	*	118	*	*
August	5.51	0.49	6.00	51	4.5	55	92	4.8			
September	4.46	1.29	5.75	42	12	55	78	4			
12134000	NORTH FORK SKYKOMISH RIVER AT INDEX, WA.	146	October	3.45	3.63	7.08	437	460	897	49	3
			November	5.72	4.92	10.64	749	644	1390	54	5.1
			December	6.17	5.57	11.74	782	705	1490	53	5.4
			January	4.81	4.08	8.89	609	516	1130	54	4.2
			February	3.74	2.40	6.14	520	334	854	61	3.6
			March	*	*	7.47	*	*	946	*	*
			April	*	*	10.33	*	*	1350	*	*
			May	*	*	16.25	*	*	2060	*	*
			June	*	*	17.82	*	*	2330	*	*
			July	*	*	9.57	*	*	1210	*	*
August	2.86	0.38	3.25	362	49	411	88	2.5			
September	2.36	1.39	3.75	309	182	490	63	2.1			
12134500	SKYKOMISH RIVER NEAR GOLD BAR, WA.	535	October	2.97	2.83	5.80	1380	1310	2690	51	2.6
			November	4.94	4.98	9.92	2370	2390	4760	50	4.4
			December	5.21	5.15	10.36	2420	2390	4810	50	4.5
			January	4.53	4.24	8.78	2100	1970	4070	52	3.9
			February	3.96	3.31	7.27	2020	1690	3700	54	3.8
			March	*	*	6.98	*	*	3240	*	*
			April	*	*	9.27	*	*	4440	*	*
			May	*	*	14.46	*	*	6710	*	*
			June	*	*	13.87	*	*	6650	*	*
			July	*	*	7.57	*	*	3510	*	*
August	2.58	0.35	2.94	1200	164	1360	88	2.2			
September	1.86	0.99	2.84	890	473	1360	65	1.7			

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12135000	WALLACE RIVER AT GOLD BAR, WA.	19	October	4.65	3.61	8.26	77	60	136	56	4
			November	7.82	5.59	13.41	133	95	228	58	7
			December	8.38	5.56	13.93	138	92	230	60	7.3
			January	7.09	5.75	12.84	117	95	212	55	6.1
			February	6.21	3.71	9.92	112	67	179	63	5.9
			March	6.38	2.67	9.05	105	44	149	71	5.5
			April	8.40	2.88	11.28	143	49	192	74	7.5
			May	10.63	3.37	14.00	175	55	231	76	9.2
			June	8.94	2.54	11.48	152	43	195	78	8
			July	4.38	1.25	5.63	72	21	93	78	3.8
August	2.03	0.66	2.68	33	11	44	76	1.8			
September	2.33	1.84	4.17	40	31	71	56	2.1			
12135500	OLNEY CREEK NEAR GOLD BAR, WA.	8.31	October	5.41	6.61	12.02	39	48	87	45	4.7
			November	8.16	6.27	14.42	61	47	107	57	7.3
			December	9.52	5.83	15.34	69	42	111	62	8.3
			January	3.81	5.66	9.47	27	41	68	40	3.3
			February	6.15	5.49	11.64	49	43	92	53	5.9
			March	7.04	4.47	11.51	51	32	83	61	6.1
			April	9.36	4.88	14.23	70	36	106	66	8.4
			May	11.44	3.87	15.31	82	28	110	75	9.9
			June	9.94	3.78	13.71	74	28	102	72	8.9
			July	4.56	1.80	6.36	33	13	46	72	4
August	2.72	1.43	4.15	20	10	30	66	2.4			
September	2.39	2.09	4.49	18	16	33	53	2.1			
12136000	OLNEY CREEK NEAR STARTUP, WA.	10.3	October	5.18	4.64	9.82	46	41	88	53	4.5
			November	7.23	4.88	12.11	67	45	112	60	6.5
			December	8.16	6.80	14.96	73	61	134	55	7.1
			January	8.94	5.26	14.20	80	47	127	63	7.8
			February	6.39	5.01	11.40	63	49	112	56	6.1
			March	7.41	4.51	11.91	66	40	106	62	6.4
			April	8.48	2.35	10.83	78	22	100	78	7.6
			May	7.74	2.15	9.89	69	19	88	78	6.7
			June	6.22	2.33	8.55	57	22	79	73	5.6
			July	2.54	0.59	3.13	23	5.3	28	81	2.2
August	1.14	0.57	1.70	10	5	15	67	0.98			
September	2.31	2.13	4.43	21	20	41	52	2.1			
12136500	MAY CREEK NEAR GOLD BAR, WA.	3.8	October	6.02	4.63	10.65	20	15	35	57	5.2
			November	10.27	4.83	15.10	35	16	51	68	9.2
			December	10.19	5.49	15.68	34	18	52	65	8.8
			January	8.21	3.80	12.00	27	13	40	68	7.1
			February	5.68	2.79	8.46	21	10	31	67	5.4
			March	*	*	10.97	*	*	36	*	*
			April	*	*	12.57	*	*	43	*	*
			May	*	*	17.24	*	*	57	*	*
			June	*	*	18.01	*	*	61	*	*
			July	7.47	0.97	8.44	25	3.2	28	89	6.5
August	1.83	0.15	1.98	6	0.51	6.5	92	1.6			
September	2.63	1.14	3.77	9	3.9	13	70	2.4			

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12137200	ELK CREEK NEAR SULTAN, WA.	11.4	October	3.94	3.47	7.41	39	34	73	53	3.4
			November	6.56	8.31	14.87	67	85	152	44	5.9
			December	8.61	12.01	20.62	85	119	204	42	7.5
			January	4.79	5.63	10.42	47	56	103	46	4.2
			February	7.44	7.02	14.45	81	76	157	51	7.1
			March	6.00	3.84	9.84	59	38	97	61	5.2
			April	*	*	12.61	*	*	129	*	*
			May	*	*	15.42	*	*	152	*	*
			June	*	*	14.92	*	*	152	*	*
			July	5.40	2.52	7.92	53	25	78	68	4.7
August	2.04	1.38	3.42	20	14	34	60	1.8			
September	3.30	3.81	7.11	34	39	73	46	3			
12137260	WILLIAMSON CREEK NEAR SULTAN, WA.	15.6	October	5.39	3.03	8.42	73	41	114	64	4.7
			November	8.96	8.28	17.24	125	116	241	52	8
			December	11.67	13.11	24.78	158	177	335	47	10
			January	7.04	6.49	13.52	95	88	183	52	6.1
			February	8.44	6.85	15.29	125	102	227	55	8
			March	6.70	3.52	10.22	91	48	138	66	5.8
			April	8.86	3.41	12.27	124	48	172	72	7.9
			May	11.10	2.20	13.30	150	30	180	83	9.6
			June	10.20	2.41	12.61	143	34	176	81	9.1
			July	6.14	2.75	8.89	83	37	120	69	5.3
August	3.26	1.08	4.34	44	15	59	75	2.8			
September	4.38	3.99	8.37	61	56	117	52	3.9			
12137290	SOUTH FORK SULTAN RIVER NEAR SULTAN, WA.	11.6	October	5.48	6.78	12.27	55	68	123	45	4.8
			November	8.97	8.81	17.78	93	92	185	50	8
			December	8.08	5.80	13.88	81	58	140	58	7
			January	8.58	10.46	19.04	86	105	192	45	7.4
			February	6.27	6.40	12.67	69	71	140	50	6
			March	6.95	5.76	12.71	70	58	128	55	6
			April	9.24	4.11	13.35	96	43	139	69	8.3
			May	11.69	3.67	15.36	118	37	155	76	10
			June	8.35	2.37	10.71	87	25	111	78	7.5
			July	3.91	1.82	5.73	39	18	58	68	3.4
August	1.84	0.80	2.64	19	8.1	27	70	1.6			
September	1.77	3.12	4.88	18	32	51	36	1.6			
12137500	SULTAN RIVER NEAR STARTUP, WA.	74.5	October	*	*	12.06	*	*	779	*	*
			November	*	*	15.71	*	*	1050	*	*
			December	*	*	17.87	*	*	1160	*	*
			January	*	*	15.29	*	*	988	*	*
			February	*	*	11.81	*	*	838	*	*
			March	*	*	9.88	*	*	638	*	*
			April	*	*	13.92	*	*	929	*	*
			May	*	*	17.38	*	*	1120	*	*
			June	*	*	14.17	*	*	946	*	*
			July	*	*	7.40	*	*	478	*	*
August	*	*	3.77	*	*	243	*	*			
September	*	*	5.40	*	*	360	*	*			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12137800	SULTAN RIVER BELOW DIVERSION DAM NEAR SULTAN, WA.	77.1	October	*	*	3.45	*	*	230	*	*
			November	*	*	7.24	*	*	500	*	*
			December	*	*	2.67	*	*	178	*	*
			January	*	*	3.60	*	*	241	*	*
			February	*	*	3.41	*	*	250	*	*
			March	*	*	3.75	*	*	251	*	*
			April	*	*	3.42	*	*	236	*	*
			May	*	*	3.95	*	*	264	*	*
			June	*	*	2.86	*	*	197	*	*
			July	*	*	2.75	*	*	184	*	*
12138000	SULTAN RIVER NEAR SULTAN, WA.	86.6	October	4.02	5.62	9.64	302	422	724	42	3.5
			November	6.72	5.40	12.11	521	419	940	55	6
			December	8.05	9.48	17.53	605	712	1320	46	7
			January	6.95	6.64	13.59	522	499	1020	51	6
			February	6.34	5.24	11.57	522	432	954	55	6
			March	5.53	3.72	9.25	415	279	694	60	4.8
			April	7.94	3.55	11.49	617	275	892	69	7.1
			May	9.59	3.82	13.41	720	287	1010	72	8.3
			June	8.45	3.10	11.55	656	240	897	73	7.6
			July	4.65	0.94	5.58	349	70	419	83	4
12138150	SULTAN RIVER BELOW CHAPLAIN CREEK NEAR SULTAN, WA.	92.6	October	*	*	5.62	*	*	452	*	*
			November	*	*	11.81	*	*	980	*	*
			December	*	*	18.35	*	*	1470	*	*
			January	*	*	12.31	*	*	989	*	*
			February	*	*	9.53	*	*	840	*	*
			March	*	*	8.10	*	*	651	*	*
			April	*	*	8.85	*	*	734	*	*
			May	*	*	10.86	*	*	872	*	*
			June	*	*	8.92	*	*	741	*	*
			July	*	*	5.43	*	*	436	*	*
12138160	SULTAN RIVER BELOW POWERPLANT NEAR SULTAN, WA.	94.2	October	*	*	7.06	*	*	577	*	*
			November	*	*	16.61	*	*	1400	*	*
			December	*	*	12.62	*	*	1030	*	*
			January	*	*	12.11	*	*	989	*	*
			February	*	*	10.44	*	*	936	*	*
			March	*	*	9.54	*	*	779	*	*
			April	*	*	9.19	*	*	776	*	*
			May	*	*	9.80	*	*	801	*	*
			June	*	*	7.49	*	*	633	*	*
			July	*	*	4.86	*	*	397	*	*
August	*	*	2.60	*	*	212	*	*			
September	*	*	4.03	*	*	340	*	*			

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12138500	MCCOY CREEK NEAR SULTAN, WA.	6.17	October	2.15	2.06	4.21	12	11	23	51	1.9
			November	5.66	3.13	8.79	31	17	49	64	5.1
			December	6.35	3.09	9.43	34	17	50	67	5.5
			January	4.93	2.54	7.46	26	14	40	66	4.3
			February	4.90	4.80	9.70	29	28	57	50	4.7
			March	4.62	2.56	7.18	25	14	38	64	4
			April	3.85	1.31	5.16	21	7.2	29	75	3.5
			May	3.23	0.70	3.93	17	3.7	21	82	2.8
			June	1.83	0.55	2.38	10	3	13	77	1.6
			July	1.00	0.20	1.20	5.3	1.1	6.4	83	0.86
			August	0.76	0.13	0.89	4.1	0.68	4.8	86	0.66
			September	0.81	0.25	1.06	4.5	1.4	5.8	76	0.72
12141000	WOODS CREEK NEAR MONROE, WA.	56.4	October	1.08	0.60	1.67	53	29	82	64	0.93
			November	2.77	1.53	4.30	140	77	217	64	2.5
			December	4.19	2.23	6.41	205	109	314	65	3.6
			January	4.16	2.47	6.63	204	121	324	63	3.6
			February	3.56	1.68	5.24	191	90	281	68	3.4
			March	3.25	1.12	4.37	159	55	214	74	2.8
			April	2.52	0.79	3.31	127	40	167	76	2.3
			May	1.62	0.44	2.06	79	22	101	79	1.4
			June	1.03	0.37	1.40	52	19	71	73	0.92
			July	0.66	0.13	0.79	32	6.3	38	84	0.57
			August	0.46	0.07	0.53	23	3.3	26	87	0.4
			September	0.49	0.16	0.65	25	8.2	33	75	0.44
12141300	MIDDLE FORK SNOQUALMIE RIVER NEAR TANNER, WA.	154	October	3.29	2.92	6.20	439	390	829	53	2.9
			November	5.80	6.01	11.82	801	830	1630	49	5.2
			December	6.20	5.85	12.05	828	782	1610	51	5.4
			January	5.47	6.27	11.74	731	838	1570	47	4.7
			February	5.08	4.29	9.37	745	629	1370	54	4.8
			March	5.28	2.59	7.87	705	346	1050	67	4.6
			April	*	*	9.70	*	*	1340	*	*
			May	*	*	13.49	*	*	1800	*	*
			June	*	*	13.02	*	*	1800	*	*
			July	*	*	7.30	*	*	976	*	*
			August	2.61	0.56	3.17	349	74	423	82	2.3
			September	2.09	1.58	3.67	289	218	507	57	1.9
12141500	MIDDLE FORK SNOQUALMIE RIVER NEAR NORTH BEND, WA.	169	October	3.06	2.98	6.04	448	437	886	51	2.7
			November	5.11	3.83	8.94	775	579	1350	57	4.6
			December	5.52	4.85	10.37	809	711	1520	53	4.8
			January	5.57	3.67	9.24	817	537	1350	60	4.8
			February	4.25	2.57	6.82	683	413	1100	62	4
			March	*	*	7.60	*	*	1110	*	*
			April	*	*	8.91	*	*	1350	*	*
			May	*	*	11.78	*	*	1730	*	*
			June	*	*	11.83	*	*	1790	*	*
			July	*	*	6.39	*	*	936	*	*
			August	2.31	0.26	2.57	339	38	377	90	2
			September	2.12	0.96	3.09	321	146	467	69	1.9

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean	Mean	Mean	Mean	Mean	Mean BF	Mean	
				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12142000	N.F. SNOQUALMIE RIVER NEAR SNOQUALMIE FALLS, WA.	64	October	3.45	3.54	6.99	192	197	388	49	3
			November	6.10	5.84	11.94	350	335	685	51	5.5
			December	6.72	6.14	12.85	373	341	713	52	5.8
			January	5.72	5.99	11.71	318	332	650	49	5
			February	4.79	3.99	8.78	292	243	535	55	4.6
			March	5.54	3.00	8.55	308	167	474	65	4.8
			April	7.25	3.04	10.29	416	175	590	70	6.5
			May	9.34	3.53	12.88	519	196	715	73	8.1
			June	8.27	2.69	10.95	474	154	628	75	7.4
			July	4.31	1.15	5.46	239	64	303	79	3.7
			August	1.86	0.54	2.40	103	30	133	77	1.6
			September	2.01	1.71	3.72	115	98	214	54	1.8
12142200	CALLIGAN CREEK NEAR SNOQUALMIE, WA.	7.31	October	4.30	1.89	6.18	27	12	39	69	3.7
			November	4.73	2.41	7.14	31	16	47	66	4.2
			December	6.14	5.02	11.16	39	32	71	55	5.3
			January	6.08	6.30	12.38	39	40	78	49	5.3
			February	4.73	2.60	7.32	33	18	51	65	4.5
			March	3.70	1.18	4.88	23	7.5	31	76	3.2
			April	*	*	7.87	*	*	52	*	*
			May	*	*	12.53	*	*	79	*	*
			June	*	*	10.08	*	*	66	*	*
			July	2.26	0.83	3.10	14	5.3	20	73	2
			August	0.39	0.42	0.81	2.5	2.7	5.1	48	0.34
			September	1.31	2.34	3.65	8.6	15	24	36	1.2
12142300	HANCOCK CREEK NEAR SNOQUALMIE, WA.	7.67	October	4.74	2.10	6.84	32	14	46	69	4.1
			November	5.12	2.91	8.03	35	20	55	64	4.6
			December	5.86	5.00	10.85	39	33	72	54	5.1
			January	6.95	5.16	12.11	46	34	81	57	6
			February	5.33	2.96	8.29	39	22	61	64	5.1
			March	4.18	1.72	5.90	28	11	39	71	3.6
			April	*	*	8.19	*	*	56	*	*
			May	*	*	14.48	*	*	96	*	*
			June	*	*	10.63	*	*	73	*	*
			July	3.45	0.57	4.02	23	3.8	27	86	3
			August	0.99	0.42	1.41	6.6	2.8	9.4	70	0.86
			September	1.93	2.34	4.27	13	16	29	45	1.7
12143000	N.F. SNOQUALMIE RIVER NEAR NORTH BEND, WA.	95.7	October	3.59	2.95	6.54	298	245	543	55	3.1
			November	5.80	4.38	10.18	498	375	873	57	5.2
			December	6.73	5.27	12.00	559	437	996	56	5.8
			January	6.99	4.61	11.60	580	382	963	60	6.1
			February	5.27	2.49	7.77	480	227	707	68	5
			March	5.72	2.46	8.18	475	204	679	70	5
			April	7.37	2.46	9.82	632	211	843	75	6.6
			May	9.26	3.17	12.43	769	263	1030	75	8
			June	8.53	2.35	10.88	731	202	933	78	7.6
			July	4.30	0.69	4.99	357	57	414	86	3.7
			August	1.74	0.40	2.14	145	33	178	81	1.5
			September	1.94	1.24	3.18	167	106	273	61	1.7

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12143400	SF SNOQUALMIE RIVER ABOVE ALICE CREEK NEAR GARCIA, WA.	41.6	October	2.68	2.03	4.71	97	73	170	57	2.3
			November	5.27	4.97	10.24	197	185	382	51	4.7
			December	5.98	4.64	10.62	216	168	383	56	5.2
			January	4.82	5.13	9.96	174	185	359	48	4.2
			February	4.68	3.83	8.51	185	152	337	55	4.5
			March	*	*	7.69	*	*	277	*	*
			April	*	*	10.44	*	*	389	*	*
			May	*	*	14.83	*	*	535	*	*
			June	*	*	11.94	*	*	445	*	*
			July	4.41	0.86	5.27	159	31	190	84	3.8
			August	1.72	0.28	2.00	62	10	72	86	1.5
			September	1.50	0.93	2.42	56	35	90	62	1.3
12143500	S.F. SNOQUALMIE RIVER NEAR GARCIA, WA.	45.8	October	2.57	4.19	6.75	102	166	268	38	2.2
			November	5.64	9.01	14.65	231	370	601	38	5.1
			December	3.32	0.93	4.25	132	37	169	78	2.9
			January	2.67	4.05	6.71	106	161	267	40	2.3
			February	2.05	2.06	4.11	89	90	179	50	1.9
			March	*	*	4.81	*	*	191	*	*
			April	*	*	9.30	*	*	382	*	*
			May	*	*	14.07	*	*	559	*	*
			June	*	*	9.87	*	*	405	*	*
			July	2.88	0.68	3.56	114	27	142	81	2.5
			August	1.12	0.17	1.30	45	6.9	51	87	0.97
			September	1.35	0.56	1.91	55	23	78	71	1.2
12143600	SF SNOQUALMIE RIVER AT EDGEWICK, WA.	65.9	October	2.58	2.40	4.98	147	137	285	52	2.2
			November	5.78	6.04	11.82	342	357	698	49	5.2
			December	5.19	2.99	8.18	296	171	468	63	4.5
			January	4.92	4.97	9.89	281	284	566	50	4.3
			February	4.67	3.87	8.54	293	243	536	55	4.4
			March	*	*	7.88	*	*	450	*	*
			April	*	*	10.37	*	*	613	*	*
			May	*	*	12.14	*	*	694	*	*
			June	*	*	8.70	*	*	514	*	*
			July	3.36	0.49	3.85	192	28	220	87	2.9
			August	1.65	0.21	1.86	94	12	106	88	1.4
			September	1.35	0.57	1.92	80	34	114	70	1.2
12143700	BOXLEY CREEK NEAR CEDAR FALLS, WA.	1.57	October	2.95	0.09	3.03	4	0.12	4.1	97	2.6
			November	4.73	1.21	5.94	6.7	1.7	8.4	80	4.2
			December	13.58	4.29	17.87	18	5.8	24	76	12
			January	17.88	1.49	19.37	24	2	26	92	16
			February	17.06	1.32	18.38	25	2	27	93	16
			March	15.72	0.56	16.28	21	0.76	22	97	14
			April	13.17	0.37	13.54	19	0.52	19	97	12
			May	*	*	23.95	*	*	33	*	*
			June	*	*	34.96	*	*	49	*	*
			July	*	*	30.76	*	*	42	*	*
			August	17.89	0.43	18.32	24	0.59	25	98	16
			September	6.84	0.16	7.00	9.6	0.22	9.9	98	6.1

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12143900	BOXLEY CREEK NEAR EDGEWICK, WA.	3.64	October	6.07	0.18	6.25	19	0.56	20	97	5.3
			November	6.82	0.77	7.59	22	2.5	25	90	6.1
			December	10.30	1.90	12.20	33	6	39	84	8.9
			January	11.05	1.18	12.23	35	3.7	39	90	9.6
			February	12.44	1.46	13.90	43	5	48	90	12
			March	14.31	0.65	14.95	45	2	47	96	12
			April	13.92	0.43	14.35	45	1.4	47	97	12
			May	18.68	0.31	18.98	59	0.97	60	98	16
			June	19.58	0.42	20.00	64	1.4	65	98	18
			July	17.32	0.32	17.65	55	1	56	98	15
			August	12.30	0.22	12.52	39	0.71	40	98	11
			September	8.07	0.15	8.23	26	0.49	27	98	7.2
12144000	S.F. SNOQUALMIE RIVER AT NORTH BEND, WA.	81.7	October	2.86	1.86	4.72	203	132	334	61	2.5
			November	5.33	3.44	8.77	390	252	642	61	4.8
			December	6.22	3.58	9.79	441	253	694	63	5.4
			January	6.50	3.61	10.11	461	256	717	64	5.6
			February	5.77	2.46	8.24	449	192	640	70	5.5
			March	6.64	1.89	8.53	470	134	604	78	5.8
			April	7.72	1.84	9.56	565	135	700	81	6.9
			May	9.68	2.36	12.03	686	167	853	80	8.4
			June	8.42	1.61	10.03	616	118	735	84	7.5
			July	4.55	0.44	4.99	322	31	353	91	3.9
			August	2.25	0.17	2.42	159	12	171	93	1.9
			September	1.85	0.51	2.36	136	37	173	78	1.7
12144500	SNOQUALMIE RIVER NEAR SNOQUALMIE, WA.	375	October	*	*	5.58	*	*	1810	*	*
			November	*	*	10.63	*	*	3570	*	*
			December	*	*	11.24	*	*	3660	*	*
			January	*	*	11.10	*	*	3610	*	*
			February	*	*	8.57	*	*	3060	*	*
			March	*	*	7.73	*	*	2520	*	*
			April	*	*	9.06	*	*	3050	*	*
			May	*	*	11.57	*	*	3760	*	*
			June	*	*	10.54	*	*	3540	*	*
			July	*	*	5.61	*	*	1830	*	*
			August	*	*	2.65	*	*	863	*	*
			September	*	*	3.54	*	*	1190	*	*
12145000	TOKUL CREEK NEAR SNOQUALMIE, WA.	32.2	October	1.73	0.32	2.05	48	8.9	57	84	1.5
			November	4.49	0.85	5.34	130	25	154	84	4
			December	4.52	0.75	5.28	126	21	147	86	3.9
			January	4.86	1.34	6.20	136	37	173	78	4.2
			February	4.48	0.96	5.44	137	29	167	82	4.3
			March	4.81	0.62	5.43	134	17	152	89	4.2
			April	3.63	0.51	4.14	105	15	119	88	3.3
			May	2.63	0.49	3.12	74	14	87	84	2.3
			June	1.83	0.36	2.19	53	10	63	83	1.6
			July	1.33	0.07	1.41	37	2.1	39	95	1.2
			August	0.96	0.06	1.02	27	1.7	29	94	0.83
			September	1.03	0.18	1.21	30	5.2	35	85	0.92



## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12145500	RAGING RIVER NEAR FALL CITY, WA.	30.6	October	1.78	0.91	2.69	47	24	71	66	1.5
			November	4.81	3.09	7.90	132	85	217	61	4.3
			December	6.21	3.47	9.68	165	92	257	64	5.4
			January	5.95	4.18	10.12	158	111	269	59	5.2
			February	4.95	3.05	7.99	144	89	233	62	4.7
			March	4.93	2.05	6.98	131	54	185	71	4.3
			April	4.11	1.44	5.55	113	39	152	74	3.7
			May	2.61	0.69	3.31	69	18	88	79	2.3
			June	1.60	0.74	2.34	44	20	64	68	1.4
			July	0.95	0.27	1.22	25	7.1	32	78	0.82
August	0.60	0.14	0.74	16	3.6	20	81	0.52			
September	0.75	0.47	1.22	21	13	34	61	0.67			
12146000	PATTERSON CREEK NEAR FALL CITY, WA.	15.5	October	1.02	0.30	1.31	14	4	18	78	0.88
			November	1.88	0.94	2.82	26	13	39	67	1.7
			December	2.96	1.27	4.23	40	17	57	70	2.6
			January	3.25	1.58	4.83	44	21	65	67	2.8
			February	2.91	0.95	3.85	43	14	57	75	2.8
			March	2.57	0.70	3.27	35	9.4	44	79	2.2
			April	2.10	0.46	2.56	29	6.4	36	82	1.9
			May	1.49	0.20	1.69	20	2.7	23	88	1.3
			June	1.00	0.19	1.19	14	2.7	17	84	0.89
			July	0.78	0.04	0.82	11	0.54	11	95	0.68
August	0.71	0.02	0.73	9.5	0.32	9.8	97	0.61			
September	0.75	0.10	0.84	10	1.3	12	89	0.67			
12147000	GRIFFIN CREEK NEAR CARNATION, WA.	17.1	October	0.93	0.46	1.40	14	6.9	21	67	0.81
			November	2.79	1.43	4.22	43	22	65	66	2.5
			December	3.90	1.66	5.56	58	25	82	70	3.4
			January	3.74	2.06	5.81	56	31	86	64	3.2
			February	3.24	1.37	4.61	53	22	75	70	3.1
			March	2.72	0.98	3.70	40	15	55	74	2.4
			April	2.32	0.63	2.94	35	9.6	45	79	2.1
			May	1.41	0.40	1.80	21	5.9	27	78	1.2
			June	0.84	0.42	1.26	13	6.5	19	67	0.75
			July	0.46	0.10	0.56	6.8	1.5	8.3	82	0.4
August	0.29	0.04	0.32	4.3	0.52	4.8	89	0.25			
September	0.33	0.14	0.48	5.1	2.2	7.3	70	0.3			
12147500	NORTH FORK TOLT RIVER NEAR CARNATION, WA.	39.9	October	4.29	3.18	7.46	148	110	258	57	3.7
			November	7.65	6.43	14.09	274	230	504	54	6.9
			December	9.25	6.27	15.52	320	217	537	60	8
			January	8.85	6.55	15.39	306	227	533	57	7.7
			February	7.70	4.38	12.08	293	166	459	64	7.3
			March	7.87	2.87	10.73	272	99	371	73	6.8
			April	9.01	3.04	12.05	322	109	431	75	8.1
			May	9.45	2.67	12.12	327	92	420	78	8.2
			June	7.30	2.21	9.50	261	79	340	77	6.5
			July	4.58	1.15	5.72	158	40	198	80	4
August	2.68	0.68	3.36	93	23	116	80	2.3			
September	2.66	1.81	4.47	95	65	160	59	2.4			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean	Mean	Mean Streamflow (in)	Mean	Mean	Mean	Mean BF as % of Streamflow	Mean
				Baseflow (in)	Surface Runoff (in)		Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)		Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12147600	SOUTH FORK TOLT RIVER NEAR INDEX, WA.	5.34	October	4.40	4.56	8.95	20	21	41	49	3.8
			November	7.82	8.65	16.47	37	41	79	47	7
			December	7.53	7.97	15.50	35	37	72	49	6.5
			January	7.09	8.75	15.84	33	41	73	45	6.1
			February	6.94	5.97	12.91	35	30	66	54	6.6
			March	6.21	3.93	10.14	29	18	47	61	5.4
			April	8.93	4.48	13.41	43	21	64	67	8
			May	12.10	5.09	17.19	56	24	80	70	10
			June	10.11	3.68	13.80	48	18	66	73	9.1
			July	5.04	1.82	6.85	23	8.4	32	74	4.4
August	2.10	0.97	3.07	9.7	4.5	14	68	1.8			
September	2.54	2.87	5.41	12	14	26	47	2.3			
12148000	SOUTH FORK TOLT RIVER NEAR CARNATION, WA.	19.7	October	*	*	5.93	*	*	101	*	*
			November	*	*	10.90	*	*	192	*	*
			December	*	*	12.12	*	*	207	*	*
			January	*	*	12.35	*	*	211	*	*
			February	*	*	9.10	*	*	171	*	*
			March	*	*	6.85	*	*	117	*	*
			April	*	*	7.86	*	*	139	*	*
			May	*	*	8.65	*	*	148	*	*
			June	*	*	6.94	*	*	122	*	*
			July	*	*	4.60	*	*	79	*	*
August	*	*	3.03	*	*	52	*	*			
September	*	*	4.03	*	*	71	*	*			
12148500	TOLT RIVER NEAR CARNATION, WA.	81.4	October	*	*	6.28	*	*	443	*	*
			November	*	*	10.88	*	*	793	*	*
			December	*	*	12.51	*	*	883	*	*
			January	*	*	12.09	*	*	854	*	*
			February	*	*	9.69	*	*	751	*	*
			March	*	*	8.60	*	*	607	*	*
			April	*	*	9.24	*	*	674	*	*
			May	*	*	9.71	*	*	686	*	*
			June	*	*	7.56	*	*	552	*	*
			July	*	*	4.22	*	*	298	*	*
August	*	*	2.57	*	*	181	*	*			
September	*	*	3.42	*	*	249	*	*			
12148700	STOSSEL CREEK NEAR CARNATION, WA.	5.58	October	1.02	0.30	1.32	4.9	1.5	6.4	77	0.88
			November	3.12	2.13	5.24	16	11	26	59	2.8
			December	4.98	2.14	7.12	24	10	34	70	4.3
			January	4.74	2.30	7.04	23	11	34	67	4.1
			February	4.62	1.03	5.65	25	5.5	30	82	4.4
			March	3.72	0.63	4.35	18	3	21	86	3.2
			April	3.23	0.66	3.89	16	3.3	19	83	2.9
			May	2.52	0.53	3.06	12	2.6	15	83	2.2
			June	1.25	0.19	1.44	6.3	0.94	7.2	87	1.1
			July	0.55	0.06	0.61	2.6	0.3	2.9	90	0.47
August	0.31	0.05	0.36	1.5	0.23	1.7	87	0.27			
September	0.33	0.13	0.47	1.7	0.67	2.3	71	0.3			

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12149000	SNOQUALMIE RIVER NEAR CARNATION, WA.	603	October	*	*	4.87	*	*	2550	*	*
			November	*	*	9.04	*	*	4890	*	*
			December	*	*	10.55	*	*	5520	*	*
			January	*	*	9.78	*	*	5120	*	*
			February	*	*	7.82	*	*	4490	*	*
			March	*	*	7.33	*	*	3830	*	*
			April	*	*	8.06	*	*	4360	*	*
			May	*	*	9.60	*	*	5020	*	*
			June	*	*	8.28	*	*	4480	*	*
			July	*	*	4.45	*	*	2330	*	*
August	*	*	2.11	*	*	1110	*	*			
September	*	*	2.58	*	*	1390	*	*			
12150500	CHERRY CREEK NEAR DUVALL, WA.	19.2	October	0.85	0.70	1.54	14	12	26	55	0.73
			November	4.15	2.00	6.15	71	34	106	67	3.7
			December	5.22	1.82	7.04	87	30	117	74	4.5
			January	5.47	1.66	7.13	91	28	119	77	4.7
			February	3.05	2.07	5.13	56	38	94	60	2.9
			March	2.94	1.10	4.05	49	18	67	73	2.6
			April	2.73	0.87	3.60	47	15	62	76	2.4
			May	1.57	0.42	1.99	26	7	33	79	1.4
			June	1.12	0.72	1.84	19	12	32	61	1
			July	0.57	0.15	0.72	9.5	2.5	12	79	0.5
August	0.31	0.08	0.39	5.2	1.2	6.4	81	0.27			
September	0.40	0.17	0.57	6.9	2.8	9.8	71	0.36			
12150800	SNOHOMISH RIVER NEAR MONROE, WA.	1537	October	*	*	4.40	*	*	5870	*	*
			November	*	*	8.99	*	*	12400	*	*
			December	*	*	10.09	*	*	13400	*	*
			January	*	*	9.82	*	*	13100	*	*
			February	*	*	7.86	*	*	11500	*	*
			March	*	*	7.06	*	*	9420	*	*
			April	*	*	7.55	*	*	10400	*	*
			May	*	*	9.85	*	*	13100	*	*
			June	*	*	9.08	*	*	12500	*	*
			July	*	*	5.20	*	*	6930	*	*
August	*	*	2.30	*	*	3070	*	*			
September	*	*	2.57	*	*	3540	*	*			
12152500	PILCHUCK RIVER NEAR GRANITE FALLS, WA.	54.5	October	3.20	3.49	6.69	151	165	316	48	2.8
			November	4.93	4.56	9.48	241	223	463	52	4.4
			December	6.81	4.75	11.56	322	224	546	59	5.9
			January	6.26	4.49	10.75	296	212	508	58	5.4
			February	5.69	4.27	9.95	295	221	516	57	5.4
			March	6.00	2.91	8.91	284	137	421	67	5.2
			April	5.97	2.17	8.14	292	106	398	73	5.4
			May	4.82	1.65	6.47	228	78	306	74	4.2
			June	3.63	1.84	5.47	177	90	267	66	3.3
			July	2.05	0.66	2.71	97	31	128	76	1.8
August	1.27	0.50	1.77	60	24	84	72	1.1			
September	1.37	1.29	2.67	67	63	130	52	1.2			

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean	Mean	Mean	Mean	Mean	Mean BF	Mean	
				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12153000	LITTLE PILCHUCK CR NEAR LAKE STEVENS, WA.	17	October	0.53	0.27	0.81	7.9	4	12	66	0.46
			November	1.93	0.97	2.90	29	15	44	66	1.7
			December	3.14	1.50	4.64	46	22	68	68	2.7
			January	3.15	1.57	4.71	46	23	69	67	2.7
			February	2.83	1.20	4.02	46	19	65	70	2.7
			March	2.29	0.72	3.00	34	11	44	76	2
			April	1.63	0.45	2.08	25	6.9	32	78	1.5
			May	0.91	0.34	1.25	13	5	18	73	0.78
			June	0.50	0.24	0.74	7.6	3.7	11	67	0.45
			July	0.20	0.09	0.29	3	1.3	4.2	70	0.18
			August	0.13	0.03	0.16	1.9	0.44	2.3	81	0.11
			September	0.15	0.04	0.19	2.3	0.67	3	77	0.13
12154000	STEVENS CREEK AT LAKE STEVENS, WA.	15.3	October	0.45	0.08	0.53	6	1	7	86	0.39
			November	1.64	0.27	1.91	23	3.7	26	86	1.5
			December	4.03	0.18	4.21	53	2.4	56	96	3.5
			January	3.70	0.31	4.01	49	4.1	53	92	3.2
			February	3.59	0.45	4.05	52	6.6	59	89	3.4
			March	3.59	0.48	4.07	48	6.3	54	88	3.1
			April	2.51	0.09	2.61	34	1.3	36	96	2.3
			May	1.63	0.19	1.81	22	2.5	24	90	1.4
			June	0.93	0.10	1.03	13	1.3	14	91	0.83
			July	0.36	0.03	0.39	4.8	0.44	5.2	92	0.31
			August	0.12	0.01	0.12	1.6	0.07	1.6	96	0.1
			September	0.06	0.01	0.07	0.81	0.12	0.93	87	0.05
12154500	DUBUQUE CREEK NEAR LAKE STEVENS WA.	7.16	October	0.67	0.60	1.26	4.1	3.7	7.9	53	0.58
			November	2.54	2.48	5.02	16	16	32	51	2.3
			December	4.09	2.09	6.19	25	13	38	66	3.5
			January	2.83	2.52	5.35	18	16	33	53	2.5
			February	3.98	3.95	7.92	27	27	54	50	3.8
			March	2.34	2.12	4.46	15	13	28	52	2
			April	1.81	0.97	2.78	12	6.2	18	65	1.6
			May	1.10	0.54	1.64	6.8	3.4	10	67	0.95
			June	0.33	0.29	0.62	2.1	1.8	4	54	0.3
			July	0.12	0.05	0.17	0.74	0.3	1	71	0.1
			August	0.09	0.02	0.11	0.57	0.1	0.67	85	0.08
			September	0.11	0.07	0.18	0.71	0.43	1.1	62	0.1
12155300	PILCHUCK RIVER NEAR SNOHOMISH, WA.	127	October	1.79	1.79	3.58	197	197	394	50	1.6
			November	3.15	2.77	5.92	358	315	674	53	2.8
			December	4.53	3.24	7.77	499	356	856	58	3.9
			January	4.59	3.27	7.86	506	360	866	58	4
			February	3.31	2.48	5.79	400	300	700	57	3.1
			March	3.74	2.35	6.09	412	258	671	61	3.2
			April	3.43	1.06	4.49	391	121	511	76	3.1
			May	2.47	1.01	3.48	272	111	384	71	2.1
			June	1.52	0.51	2.03	173	58	231	75	1.4
			July	1.13	0.58	1.72	125	64	189	66	0.98
			August	0.78	0.17	0.96	86	19	106	82	0.68
			September	0.75	0.51	1.26	85	58	143	60	0.67

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12157000	QUILCEDA CREEK NEAR MARYSVILLE, WA.	15.4	October	0.68	0.19	0.86	9.1	2.5	12	78	0.59
			November	1.63	0.59	2.22	22	8.1	31	73	1.5
			December	2.75	1.00	3.75	37	13	50	73	2.4
			January	2.78	1.08	3.85	37	14	51	72	2.4
			February	2.56	0.85	3.40	37	12	50	75	2.4
			March	2.23	0.53	2.76	30	7.1	37	81	1.9
			April	1.56	0.31	1.88	22	4.3	26	83	1.4
			May	1.03	0.22	1.25	14	3	17	82	0.89
			June	0.70	0.18	0.88	9.7	2.5	12	80	0.63
			July	0.49	0.06	0.55	6.6	0.76	7.3	90	0.43
			August	0.36	0.03	0.40	4.8	0.43	5.3	92	0.31
			September	0.38	0.06	0.43	5.2	0.76	6	87	0.34
12159500	S.F. STILLAGUAMISH RIVER NEAR SILVERTON, WA.	43.7	October	3.69	3.11	6.80	140	118	258	54	3.2
			November	7.87	9.59	17.45	308	375	684	45	7
			December	5.28	3.11	8.39	200	118	318	63	4.6
			January	4.62	4.49	9.11	175	170	345	51	4
			February	4.39	3.27	7.66	182	136	318	57	4.2
			March	4.47	3.94	8.42	170	149	319	53	3.9
			April	*	*	11.42	*	*	447	*	*
			May	*	*	15.48	*	*	587	*	*
			June	*	*	14.97	*	*	586	*	*
			July	*	*	10.89	*	*	413	*	*
			August	3.54	0.69	4.22	134	26	160	84	3.1
			September	3.02	1.99	5.01	118	78	196	60	2.7
12161000	S.F. STILLAGUAMISH R. NEAR GRANITE FALLS, WA.	119	October	4.16	5.38	9.54	429	555	984	44	3.6
			November	6.20	7.12	13.32	661	760	1420	47	5.6
			December	7.73	8.38	16.11	798	865	1660	48	6.7
			January	6.42	7.34	13.75	662	757	1420	47	5.6
			February	5.66	5.01	10.67	642	567	1210	53	5.4
			March	6.26	4.09	10.36	646	423	1070	60	5.4
			April	7.90	3.36	11.26	843	359	1200	70	7.1
			May	9.40	3.79	13.19	970	392	1360	71	8.1
			June	7.97	2.72	10.69	850	291	1140	75	7.1
			July	4.51	1.29	5.80	466	133	599	78	3.9
			August	2.12	0.78	2.90	218	81	299	73	1.8
			September	2.11	2.43	4.54	225	259	484	46	1.9
12162500	S.F. STILLAGUAMISH R ABOVE JIM CREEK NEAR ARLNGTN, WA.	199	October	3.98	5.35	9.33	688	923	1610	43	3.5
			November	6.50	6.19	12.69	1160	1100	2260	51	5.8
			December	7.72	6.75	14.47	1330	1170	2500	53	6.7
			January	6.25	4.79	11.04	1080	827	1910	57	5.4
			February	5.43	4.50	9.93	1030	852	1880	55	5.2
			March	5.84	3.01	8.85	1010	520	1530	66	5.1
			April	7.62	3.25	10.87	1360	579	1940	70	6.8
			May	8.42	3.46	11.88	1450	597	2050	71	7.3
			June	7.08	2.45	9.53	1260	437	1700	74	6.3
			July	3.85	1.03	4.88	665	177	843	79	3.3
			August	1.77	0.63	2.40	305	109	414	74	1.5
			September	1.67	1.62	3.29	298	289	588	51	1.5

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12164000	JIM CREEK NEAR ARLINGTON, WA.	46.2	October	2.04	2.29	4.33	82	92	174	47	1.8
			November	4.25	3.27	7.52	176	136	312	56	3.8
			December	5.66	4.03	9.69	227	161	388	58	4.9
			January	5.29	3.17	8.46	212	127	339	63	4.6
			February	4.55	2.81	7.36	200	124	324	62	4.3
			March	4.45	1.90	6.35	178	76	254	70	3.9
			April	4.21	1.54	5.75	174	64	238	73	3.8
			May	3.32	1.16	4.48	133	46	180	74	2.9
			June	2.22	1.10	3.32	92	46	138	67	2
			July	1.04	0.42	1.46	42	17	59	71	0.9
			August	0.53	0.26	0.79	21	10	31	67	0.46
			September	0.67	0.58	1.26	28	24	52	54	0.6
12164500	S.F. STILLAGUAMISH RIVER NEAR ARLINGTON, WA.	251	October	2.23	3.86	6.09	486	840	1330	37	1.9
			November	4.86	5.86	10.72	1090	1320	2410	45	4.4
			December	5.34	7.12	12.47	1160	1550	2710	43	4.6
			January	5.38	7.80	13.18	1170	1700	2870	41	4.7
			February	3.76	4.44	8.20	898	1060	1960	46	3.6
			March	6.15	5.75	11.90	1340	1250	2590	52	5.3
			April	6.72	2.59	9.31	1510	582	2090	72	6
			May	6.96	2.83	9.79	1520	616	2130	71	6
			June	5.34	2.79	8.13	1200	628	1830	66	4.8
			July	2.88	0.92	3.79	626	199	825	76	2.5
			August	1.22	0.23	1.45	266	49	315	84	1.1
			September	1.39	1.68	3.07	313	378	691	45	1.2
12165000	SQUIRE CREEK NEAR DARRINGTON, WA.	20	October	6.24	5.32	11.56	108	92	201	54	5.4
			November	7.65	6.13	13.78	137	110	247	56	6.9
			December	8.60	6.25	14.85	149	108	258	58	7.5
			January	7.89	5.76	13.65	137	100	237	58	6.8
			February	6.90	4.75	11.65	131	90	222	59	6.6
			March	5.71	1.68	7.39	99	29	128	77	5
			April	*	*	10.04	*	*	180	*	*
			May	*	*	12.90	*	*	224	*	*
			June	*	*	13.20	*	*	237	*	*
			July	*	*	8.69	*	*	151	*	*
			August	3.51	0.73	4.24	61	13	74	83	3
			September	2.68	2.26	4.94	48	40	88	54	2.4
12165500	N F STILLAGUAMISH RIVER NEAR DARRINGTON, WA.	82.2	October	4.10	4.43	8.53	292	316	608	48	3.6
			November	5.27	5.31	10.57	388	391	779	50	4.7
			December	7.59	5.64	13.23	541	402	943	57	6.6
			January	6.67	4.07	10.75	476	290	766	62	5.8
			February	5.55	5.97	11.51	434	467	901	48	5.3
			March	4.56	1.60	6.16	325	114	439	74	4
			April	7.31	2.59	9.90	538	191	729	74	6.6
			May	7.98	2.78	10.76	569	198	767	74	6.9
			June	6.18	1.85	8.03	455	136	591	77	5.5
			July	4.27	0.89	5.16	305	63	368	83	3.7
			August	1.74	0.44	2.18	124	31	156	80	1.5
			September	1.11	0.82	1.93	82	60	142	58	1

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12166500	DEER CREEK AT OSO, WA.	65.9	October	3.90	5.16	9.06	223	295	518	43	3.4
			November	5.54	5.00	10.54	327	295	622	53	5
			December	8.60	8.04	16.63	491	459	951	52	7.5
			January	7.30	6.05	13.35	418	346	763	55	6.3
			February	5.23	4.91	10.14	328	308	636	52	5
			March	5.03	3.23	8.27	288	185	472	61	4.4
			April	6.17	3.10	9.27	364	183	547	67	5.5
			May	7.38	3.89	11.27	422	222	644	66	6.4
			June	5.04	1.58	6.63	298	93	391	76	4.5
			July	1.42	0.18	1.60	81	11	91	89	1.2
August	0.73	0.55	1.28	42	31	73	57	0.63			
September	1.27	2.31	3.57	75	136	211	35	1.1			
12167000	N.F. STILLAGUAMISH R. NEAR ARLINGTON, WA.	262	October	2.88	3.77	6.64	654	856	1510	43	2.5
			November	5.30	6.49	11.78	1240	1520	2770	45	4.7
			December	6.43	6.98	13.40	1460	1590	3050	48	5.6
			January	6.12	6.21	12.33	1390	1410	2800	50	5.3
			February	5.40	4.59	9.99	1350	1140	2490	54	5.1
			March	5.91	3.53	9.44	1340	802	2150	63	5.1
			April	6.74	2.76	9.50	1580	648	2230	71	6
			May	6.97	2.63	9.61	1590	598	2180	73	6
			June	5.26	1.80	7.06	1240	422	1660	75	4.7
			July	3.09	0.78	3.87	701	178	879	80	2.7
August	1.64	0.40	2.03	372	90	462	81	1.4			
September	1.55	1.41	2.96	364	330	694	52	1.4			
12167500	ARMSTRONG CREEK NEAR ARLINGTON, WA.	7.33	October	1.30	0.28	1.57	8.2	1.8	10	82	1.1
			November	2.48	0.45	2.93	16	3	19	85	2.2
			December	3.52	0.70	4.22	22	4.5	27	83	3.1
			January	3.47	0.71	4.18	22	4.5	27	83	3
			February	3.17	0.56	3.73	22	3.9	26	85	3
			March	3.66	0.42	4.08	23	2.7	26	90	3.2
			April	2.32	0.27	2.59	15	1.8	17	90	2.1
			May	1.47	0.32	1.79	9.3	2.1	11	82	1.3
			June	1.34	0.29	1.63	8.8	1.9	11	82	1.2
			July	0.94	0.12	1.07	6	0.79	6.8	88	0.82
August	0.71	0.12	0.83	4.5	0.74	5.3	86	0.62			
September	0.64	0.13	0.78	4.2	0.88	5.1	83	0.58			
12168500	PILCHUCK CREEK NEAR BRYANT, WA.	52	October	1.94	3.16	5.10	88	142	230	38	1.7
			November	4.14	4.51	8.65	193	210	403	48	3.7
			December	6.23	5.47	11.69	281	247	527	53	5.4
			January	6.17	5.81	11.98	278	262	540	51	5.3
			February	5.26	4.12	9.39	260	204	465	56	5
			March	4.96	3.47	8.42	223	156	380	59	4.3
			April	4.79	2.38	7.17	223	111	334	67	4.3
			May	2.99	1.51	4.50	135	68	203	66	2.6
			June	1.47	1.18	2.66	69	55	124	56	1.3
			July	0.64	0.74	1.38	29	33	62	46	0.56
August	0.24	0.42	0.66	11	19	30	36	0.2			
September	0.55	1.26	1.81	26	58	84	30	0.49			

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12169500	FISH CREEK NEAR ARLINGTON, WA.	7.52	October	0.28	0.07	0.35	1.8	0.44	2.3	81	0.25
			November	0.56	0.27	0.83	3.8	1.8	5.6	68	0.5
			December	1.21	0.60	1.81	7.9	3.9	12	67	1
			January	1.82	0.87	2.69	12	5.7	18	68	1.6
			February	1.51	0.45	1.96	11	3.2	14	77	1.4
			March	1.71	0.67	2.38	11	4.3	16	72	1.5
			April	0.79	0.13	0.92	5.3	0.87	6.2	86	0.71
			May	0.37	0.16	0.54	2.4	1.1	3.5	70	0.32
			June	0.27	0.10	0.37	1.8	0.66	2.5	74	0.24
			July	0.12	0.01	0.14	0.8	0.08	0.89	90	0.11
			August	0.10	0.01	0.11	0.67	0.06	0.72	92	0.09
			September	0.11	0.03	0.13	0.72	0.18	0.9	80	0.1
12171000	LIGHTNING CREEK NEAR NEWHALEM, WA.	129	October	0.92	0.30	1.22	103	34	137	75	0.8
			November	1.13	0.10	1.23	131	11	142	92	1
			December	0.98	0.26	1.23	110	29	138	79	0.85
			January	0.85	0.17	1.03	95	19	115	83	0.74
			February	0.74	0.31	1.06	91	38	130	71	0.71
			March	*	*	1.26	*	*	141	*	*
			April	*	*	2.78	*	*	321	*	*
			May	*	*	9.66	*	*	1080	*	*
			June	*	*	7.42	*	*	857	*	*
			July	*	*	3.16	*	*	354	*	*
			August	1.28	0.03	1.31	143	2.8	146	98	1.1
			September	0.83	0.06	0.89	96	6.4	102	94	0.74
12171500	SKAGIT RIVER ABOVE DEVILS CREEK NEAR NEWHALEM, WA.	655	October	1.16	0.42	1.58	657	239	897	73	1
			November	1.09	0.27	1.36	641	158	799	80	0.98
			December	1.28	0.76	2.04	727	431	1160	63	1.1
			January	1.13	0.22	1.34	641	122	763	84	0.98
			February	0.96	0.27	1.23	596	171	767	78	0.91
			March	*	*	1.32	*	*	752	*	*
			April	*	*	3.42	*	*	2010	*	*
			May	*	*	6.04	*	*	3430	*	*
			June	*	*	6.00	*	*	3520	*	*
			July	*	*	3.42	*	*	1950	*	*
			August	1.41	0.09	1.49	798	48	847	94	1.2
			September	0.89	0.15	1.03	520	86	606	86	0.79
12172000	BIG BEAVER CREEK NEAR NEWHALEM, WA.	63.2	October	3.86	2.71	6.57	212	148	360	59	3.3
			November	3.90	1.54	5.44	221	87	308	72	3.5
			December	3.75	2.04	5.79	205	112	317	65	3.2
			January	2.79	1.02	3.81	153	56	209	73	2.4
			February	2.35	1.15	3.50	141	69	211	67	2.2
			March	*	*	3.74	*	*	205	*	*
			April	*	*	6.64	*	*	376	*	*
			May	*	*	13.88	*	*	761	*	*
			June	*	*	15.63	*	*	885	*	*
			July	*	*	11.83	*	*	649	*	*
			August	6.12	0.82	6.94	335	45	380	88	5.3
			September	3.94	1.11	5.05	223	63	286	78	3.5



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12172500	SKAGIT RIVER NEAR NEWHALEM, WA.	765	October	1.30	0.52	1.81	859	344	1200	71	1.1
			November	2.08	0.69	2.76	1430	470	1890	75	1.9
			December	2.01	0.74	2.75	1330	490	1820	73	1.7
			January	1.85	0.73	2.58	1230	485	1710	72	1.6
			February	1.66	0.47	2.13	1210	341	1550	78	1.6
			March	*	*	2.71	*	*	1800	*	*
			April	*	*	5.29	*	*	3630	*	*
			May	*	*	9.06	*	*	6010	*	*
			June	*	*	9.22	*	*	6320	*	*
			July	*	*	5.10	*	*	3380	*	*
August	2.20	0.17	2.37	1460	112	1570	93	1.9			
September	1.34	0.26	1.60	918	180	1100	84	1.2			
12173500	RUBY CR BELOW PANTHER CR, NEAR NEWHALEM, WA.	206	October	1.23	0.50	1.73	219	90	309	71	1.1
			November	1.75	0.70	2.45	323	130	453	71	1.6
			December	1.55	0.47	2.02	276	85	361	77	1.3
			January	1.16	0.28	1.44	207	50	257	81	1
			February	1.04	0.33	1.37	203	65	269	76	0.99
			March	1.05	0.20	1.25	187	36	223	84	0.91
			April	*	*	2.81	*	*	519	*	*
			May	*	*	9.74	*	*	1740	*	*
			June	*	*	12.65	*	*	2340	*	*
			July	*	*	7.72	*	*	1380	*	*
August	2.39	0.28	2.66	427	49	476	90	2.1			
September	1.18	0.20	1.38	217	37	254	86	1.1			
12174000	RUBY CREEK NEAR NEWHALEM, WA.	210	October	1.03	0.37	1.40	188	67	254	74	0.89
			November	1.22	0.33	1.56	230	63	293	79	1.1
			December	1.19	0.31	1.50	216	57	273	79	1
			January	0.97	0.24	1.21	176	44	220	80	0.84
			February	0.93	0.24	1.17	185	48	233	79	0.88
			March	*	*	1.51	*	*	276	*	*
			April	*	*	3.91	*	*	735	*	*
			May	*	*	9.76	*	*	1780	*	*
			June	*	*	10.06	*	*	1890	*	*
			July	*	*	5.07	*	*	924	*	*
August	1.70	0.15	1.84	309	27	336	92	1.5			
September	0.94	0.16	1.09	176	30	206	86	0.84			
12174500	SKAGIT RIVER BELOW RUBY CR, NEAR NEWHALEM, WA.	999	October	1.46	0.73	2.20	1270	635	1900	67	1.3
			November	1.45	0.31	1.77	1300	281	1580	82	1.3
			December	1.42	1.18	2.60	1230	1030	2260	55	1.2
			January	1.48	0.36	1.84	1280	308	1590	81	1.3
			February	1.29	0.67	1.96	1230	634	1870	66	1.2
			March	*	*	1.69	*	*	1460	*	*
			April	*	*	3.42	*	*	3060	*	*
			May	*	*	8.86	*	*	7680	*	*
			June	*	*	9.49	*	*	8490	*	*
			July	*	*	5.16	*	*	4470	*	*
August	2.07	0.24	2.31	1800	207	2000	90	1.8			
September	1.27	0.30	1.56	1140	264	1400	81	1.1			

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				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12175500	THUNDER CREEK NEAR NEWHALEM, WA.	105	October	3.18	1.73	4.91	290	158	447	65	2.8
			November	2.66	1.60	4.26	250	151	401	62	2.4
			December	2.33	1.17	3.51	212	107	319	67	2
			January	1.89	0.91	2.80	172	83	255	68	1.6
			February	1.67	0.70	2.36	167	69	236	71	1.6
			March	*	*	2.40	*	*	218	*	*
			April	*	*	4.07	*	*	383	*	*
			May	*	*	9.77	*	*	889	*	*
			June	*	*	13.94	*	*	1310	*	*
			July	*	*	14.45	*	*	1320	*	*
August	8.90	1.88	10.78	811	171	982	83	7.7			
September	5.01	1.60	6.61	472	150	622	76	4.5			
12176000	THUNDER CREEK NEAR MARBLEMOUNT, WA.	114	October	3.20	2.35	5.55	316	233	549	58	2.8
			November	2.31	0.65	2.96	236	66	302	78	2.1
			December	2.30	1.51	3.81	227	150	377	60	2
			January	1.93	0.59	2.52	191	58	249	77	1.7
			February	1.82	0.77	2.59	197	84	281	70	1.7
			March	1.85	0.17	2.02	183	17	200	91	1.6
			April	*	*	3.81	*	*	390	*	*
			May	*	*	9.17	*	*	907	*	*
			June	*	*	12.52	*	*	1280	*	*
			July	*	*	14.68	*	*	1450	*	*
August	9.30	2.05	11.35	920	203	1120	82	8.1			
September	4.89	1.83	6.72	500	187	687	73	4.4			
12177000	SKAGIT RIVER AT REFLECTOR BAR, NEAR NEWHALEM, WA.	1125	October	1.52	0.91	2.43	1480	888	2370	63	1.3
			November	1.71	0.73	2.43	1720	732	2450	70	1.5
			December	1.68	1.42	3.10	1640	1390	3030	54	1.5
			January	1.42	1.09	2.51	1380	1070	2450	56	1.2
			February	1.27	0.31	1.58	1360	329	1690	81	1.2
			March	*	*	1.75	*	*	1700	*	*
			April	*	*	3.62	*	*	3650	*	*
			May	*	*	8.28	*	*	8080	*	*
			June	*	*	11.57	*	*	11700	*	*
			July	*	*	7.60	*	*	7410	*	*
August	3.29	0.66	3.95	3210	645	3850	83	2.9			
September	1.87	0.47	2.34	1890	474	2360	80	1.7			
12177500	STETATTLE CREEK NEAR NEWHALEM, WA.	22	October	4.67	3.37	8.03	89	64	153	58	4
			November	4.71	3.50	8.21	93	69	162	57	4.2
			December	5.11	3.78	8.90	98	72	170	57	4.4
			January	3.71	2.45	6.15	71	47	117	60	3.2
			February	3.44	1.86	5.30	72	39	111	65	3.3
			March	3.65	1.58	5.24	70	30	100	70	3.2
			April	*	*	8.97	*	*	177	*	*
			May	*	*	17.26	*	*	329	*	*
			June	*	*	18.73	*	*	369	*	*
			July	*	*	14.53	*	*	277	*	*
August	6.24	0.99	7.22	119	19	138	86	5.4			
September	3.87	1.61	5.48	76	32	108	71	3.5			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12178000	SKAGIT RIVER AT NEWHALEM, WA.	1175	October	*	*	3.01	*	*	3060	*	*
			November	*	*	3.77	*	*	3970	*	*
			December	*	*	4.02	*	*	4100	*	*
			January	*	*	3.94	*	*	4010	*	*
			February	*	*	3.57	*	*	3990	*	*
			March	*	*	3.63	*	*	3700	*	*
			April	*	*	3.99	*	*	4200	*	*
			May	*	*	5.97	*	*	6080	*	*
			June	*	*	7.20	*	*	7580	*	*
			July	*	*	6.09	*	*	6200	*	*
			August	*	*	3.54	*	*	3610	*	*
			September	*	*	2.61	*	*	2740	*	*
12178100	NEWHALEM CREEK NEAR NEWHALEM, WA.	27.9	October	3.33	1.72	5.05	81	42	122	66	2.9
			November	4.23	3.09	7.32	106	77	183	58	3.8
			December	4.13	2.76	6.90	100	67	167	60	3.6
			January	3.27	2.31	5.58	79	56	135	59	2.8
			February	3.25	1.59	4.84	86	42	129	67	3.1
			March	3.42	1.18	4.60	83	29	111	74	3
			April	*	*	5.95	*	*	149	*	*
			May	*	*	11.65	*	*	282	*	*
			June	*	*	14.50	*	*	362	*	*
			July	*	*	10.89	*	*	263	*	*
			August	4.37	0.64	5.01	106	16	121	87	3.8
			September	2.71	0.90	3.62	68	23	90	75	2.4
12179000	SKAGIT RIVER ABOVE ALMA CR, NEAR MARBLEMOUNT, WA.	1274	October	*	*	3.55	*	*	3920	*	*
			November	*	*	4.86	*	*	5550	*	*
			December	*	*	5.07	*	*	5610	*	*
			January	*	*	5.33	*	*	5890	*	*
			February	*	*	4.82	*	*	5840	*	*
			March	*	*	4.57	*	*	5050	*	*
			April	*	*	4.16	*	*	4750	*	*
			May	*	*	4.71	*	*	5210	*	*
			June	*	*	6.20	*	*	7070	*	*
			July	*	*	6.58	*	*	7270	*	*
			August	*	*	3.99	*	*	4410	*	*
			September	*	*	3.01	*	*	3440	*	*
12179800	SKAGIT R. ABOVE BACON CREEK NEAR MARBLEMOUNT WA.	1289	October	*	*	2.57	*	*	2870	*	*
			November	*	*	3.98	*	*	4590	*	*
			December	*	*	6.25	*	*	6990	*	*
			January	*	*	5.36	*	*	5990	*	*
			February	*	*	4.92	*	*	6040	*	*
			March	*	*	4.34	*	*	4850	*	*
			April	*	*	3.76	*	*	4350	*	*
			May	*	*	3.83	*	*	4280	*	*
			June	*	*	5.11	*	*	5910	*	*
			July	*	*	5.55	*	*	6210	*	*
			August	*	*	3.58	*	*	4010	*	*
			September	*	*	2.96	*	*	3420	*	*

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12180000	BACON CREEK NEAR MARBLEMOUNT, WA.	50.9	October	4.13	4.04	8.18	183	179	361	51	3.6
			November	5.59	3.39	8.98	255	155	410	62	5
			December	5.39	2.73	8.11	238	120	358	66	4.7
			January	4.57	1.90	6.47	202	84	285	71	4
			February	3.75	2.25	6.01	182	109	291	62	3.6
			March	*	*	6.70	*	*	296	*	*
			April	*	*	8.37	*	*	382	*	*
			May	*	*	17.68	*	*	780	*	*
			June	*	*	18.52	*	*	845	*	*
			July	*	*	12.76	*	*	563	*	*
August	5.84	0.88	6.72	258	39	297	87	5.1			
September	3.93	1.61	5.55	179	74	253	71	3.5			
12181000	SKAGIT RIVER AT MARBLEMOUNT, WA.	1381	October	*	*	3.43	*	*	4110	*	*
			November	*	*	5.33	*	*	6600	*	*
			December	*	*	5.35	*	*	6410	*	*
			January	*	*	5.51	*	*	6600	*	*
			February	*	*	5.27	*	*	6930	*	*
			March	*	*	4.95	*	*	5920	*	*
			April	*	*	4.58	*	*	5670	*	*
			May	*	*	5.51	*	*	6600	*	*
			June	*	*	6.17	*	*	7630	*	*
			July	*	*	6.48	*	*	7770	*	*
August	*	*	4.06	*	*	4860	*	*			
September	*	*	3.16	*	*	3920	*	*			
12181100	S.F. CASCADE RIVER AT SO CASCADE GL NEAR MBLMNT, WA.	2.36	October	8.11	3.70	11.81	17	7.6	24	69	7
			November	3.68	2.46	6.14	7.8	5.2	13	60	3.3
			December	2.10	1.14	3.24	4.3	2.3	6.6	65	1.8
			January	1.56	0.85	2.42	3.2	1.7	4.9	65	1.4
			February	1.11	0.49	1.60	2.5	1.1	3.6	70	1.1
			March	1.02	0.22	1.25	2.1	0.46	2.6	82	0.89
			April	*	*	2.15	*	*	4.6	*	*
			May	*	*	10.00	*	*	20	*	*
			June	*	*	26.17	*	*	55	*	*
			July	*	*	37.49	*	*	77	*	*
August	29.10	5.02	34.12	60	10	70	85	25			
September	16.54	4.71	21.26	35	10	45	78	15			
12181200	SALIX CREEK AT SO CASCADE GL NEAR MARBLEMOUNT, WA.	0.08	October	2.76	2.83	5.59	0.19	0.2	0.39	49	2.4
			November	2.75	3.72	6.47	0.2	0.27	0.46	42	2.5
			December	1.68	2.06	3.73	0.12	0.14	0.26	45	1.5
			January	1.26	1.39	2.64	0.09	0.1	0.18	47	1.1
			February	1.33	1.18	2.51	0.1	0.09	0.19	53	1.3
			March	*	*	1.94	*	*	0.13	*	*
			April	*	*	4.68	*	*	0.34	*	*
			May	*	*	19.70	*	*	1.4	*	*
			June	*	*	28.22	*	*	2	*	*
			July	*	*	19.58	*	*	1.4	*	*
August	3.27	0.90	4.17	0.23	0.06	0.29	78	2.8			
September	1.69	1.75	3.45	0.12	0.13	0.25	49	1.5			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi2)	Water Year Month	Mean	Mean	Mean	Mean	Mean	Mean BF	Mean	
				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft3/sec)	Surface Runoff (ft3/sec)	Streamflow (ft3/sec)	as % of Streamflow	Baseflow (ft3/sec/mi2)
12182500	CASCADE RIVER AT MARBLEMOUNT, WA.	172	October	3.35	1.67	5.02	500	249	749	67	2.9
			November	3.64	1.86	5.50	562	286	848	66	3.3
			December	3.85	1.85	5.70	575	276	851	68	3.3
			January	3.26	1.45	4.71	487	216	703	69	2.8
			February	2.76	1.08	3.85	453	177	630	72	2.6
			March	*	*	3.87	*	*	577	*	*
			April	*	*	5.53	*	*	852	*	*
			May	*	*	11.09	*	*	1650	*	*
			June	*	*	14.02	*	*	2160	*	*
			July	*	*	11.48	*	*	1710	*	*
August	5.51	0.79	6.30	823	117	940	88	4.8			
September	3.41	1.03	4.44	526	159	685	77	3.1			
12185300	ELLIOTT CREEK AT GOAT LK OUTLET NEAR MONTE CRISTO, WA.	3.03	October	5.70	4.42	10.12	15	12	27	56	4.9
			November	8.01	9.10	17.11	22	25	46	47	7.2
			December	4.03	2.92	6.95	11	7.7	18	58	3.5
			January	3.30	4.22	7.51	8.7	11	20	44	2.9
			February	4.13	2.10	6.24	12	6.1	18	66	3.9
			March	*	*	6.68	*	*	18	*	*
			April	*	*	10.92	*	*	30	*	*
			May	*	*	21.27	*	*	56	*	*
			June	*	*	23.42	*	*	64	*	*
			July	*	*	18.87	*	*	50	*	*
August	8.63	1.40	10.02	23	3.7	26	86	7.5			
September	5.02	1.56	6.58	14	4.2	18	76	4.5			
12185500	S.F. SAUK RIVER NEAR BARLOW PASS, WA.	33.1	October	5.31	3.78	9.09	152	108	261	58	4.6
			November	4.48	2.83	7.31	133	84	217	61	4
			December	4.99	3.18	8.16	143	91	234	61	4.3
			January	7.39	3.05	10.44	212	88	300	71	6.4
			February	5.17	2.21	7.38	163	70	232	70	4.9
			March	5.48	1.49	6.97	157	43	200	79	4.8
			April	*	*	9.25	*	*	274	*	*
			May	*	*	15.10	*	*	434	*	*
			June	*	*	17.06	*	*	506	*	*
			July	*	*	11.33	*	*	325	*	*
August	4.42	0.66	5.07	127	19	146	87	3.8			
September	4.10	2.15	6.26	122	64	186	66	3.7			
12186000	SAUK RIVER ABOVE WHITECHUCK R NEAR DARRINGTON, WA.	152	October	3.63	2.50	6.13	479	329	808	59	3.1
			November	5.30	3.54	8.84	721	482	1200	60	4.7
			December	5.45	3.78	9.22	718	498	1220	59	4.7
			January	4.62	3.08	7.70	610	406	1020	60	4
			February	3.92	2.43	6.35	568	351	919	62	3.7
			March	4.30	1.63	5.93	567	215	781	73	3.7
			April	*	*	7.96	*	*	1080	*	*
			May	*	*	14.34	*	*	1890	*	*
			June	*	*	16.01	*	*	2180	*	*
			July	*	*	10.68	*	*	1410	*	*
August	3.99	0.54	4.53	526	71	597	88	3.5			
September	2.51	1.11	3.62	341	152	493	69	2.2			

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12187500	SAUK RIVER AT DARRINGTON, WA.	293	October	3.38	2.51	5.90	860	639	1500	57	2.9
			November	3.95	2.61	6.56	1040	685	1720	60	3.5
			December	5.09	4.65	9.74	1290	1180	2480	52	4.4
			January	4.33	2.88	7.21	1100	733	1830	60	3.8
			February	3.46	3.61	7.07	965	1010	1970	49	3.3
			March	*	*	5.63	*	*	1430	*	*
			April	*	*	7.62	*	*	2000	*	*
			May	*	*	11.81	*	*	3000	*	*
			June	*	*	13.45	*	*	3530	*	*
			July	*	*	9.17	*	*	2330	*	*
			August	3.60	0.52	4.12	915	132	1050	87	3.1
			September	2.44	0.90	3.34	640	237	877	73	2.2
12188400	SUIATTLE RIVER ABOVE BIG CREEK NEAR DARRINGTON, WA.	307	October	2.69	0.60	3.29	716	160	876	82	2.3
			November	3.23	1.58	4.81	889	434	1320	67	2.9
			December	3.86	2.56	6.42	1030	681	1710	60	3.3
			January	3.33	1.85	5.18	888	491	1380	64	2.9
			February	2.84	0.98	3.82	830	285	1120	74	2.7
			March	*	*	4.60	*	*	1220	*	*
			April	*	*	4.15	*	*	1140	*	*
			May	*	*	10.08	*	*	2680	*	*
			June	*	*	14.03	*	*	3860	*	*
			July	*	*	13.04	*	*	3470	*	*
			August	6.56	0.67	7.23	1750	178	1930	91	5.7
			September	3.73	0.77	4.50	1030	212	1240	83	3.3
12189000	SUIATTLE RIVER NEAR MANSFORD, WA.	335	October	2.75	1.55	4.30	800	451	1250	64	2.4
			November	3.19	0.90	4.10	959	271	1230	78	2.9
			December	3.72	1.66	5.38	1080	483	1560	69	3.2
			January	3.15	1.01	4.16	916	294	1210	76	2.7
			February	2.48	0.86	3.34	792	274	1070	74	2.4
			March	*	*	3.63	*	*	1050	*	*
			April	*	*	5.39	*	*	1620	*	*
			May	*	*	11.30	*	*	3280	*	*
			June	*	*	12.22	*	*	3670	*	*
			July	*	*	8.94	*	*	2600	*	*
			August	3.98	0.58	4.56	1160	169	1330	87	3.5
			September	2.64	0.74	3.38	793	223	1020	78	2.4
12189500	SAUK RIVER NEAR SAUK, WA.	714	October	2.84	1.70	4.54	1760	1050	2810	63	2.5
			November	3.95	2.97	6.92	2530	1900	4430	57	3.5
			December	4.49	3.03	7.51	2780	1880	4650	60	3.9
			January	4.12	2.56	6.68	2550	1590	4140	62	3.6
			February	3.61	2.07	5.69	2460	1410	3860	64	3.4
			March	3.96	1.32	5.28	2450	816	3270	75	3.4
			April	*	*	6.22	*	*	3980	*	*
			May	*	*	10.54	*	*	6530	*	*
			June	*	*	12.41	*	*	7940	*	*
			July	*	*	9.17	*	*	5680	*	*
			August	4.01	0.52	4.54	2490	324	2810	88	3.5
			September	2.53	0.79	3.32	1620	502	2120	76	2.3

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12190000	JACKMAN CREEK NEAR CONCRETE WA.	23.9	October	2.22	3.06	5.28	46	63	109	42	1.9
			November	5.52	1.70	7.21	118	36	155	76	4.9
			December	4.87	2.87	7.74	101	59	160	63	4.2
			January	5.91	3.62	9.53	123	75	198	62	5.1
			February	5.01	2.11	7.12	114	48	162	70	4.8
			March	4.73	1.31	6.04	98	27	125	78	4.1
			April	*	*	7.30	*	*	156	*	*
			May	*	*	14.63	*	*	303	*	*
			June	*	*	9.04	*	*	194	*	*
			July	3.09	0.29	3.38	64	6	70	91	2.7
August	0.98	0.07	1.05	20	1.5	22	93	0.85			
September	1.03	0.80	1.83	22	17	39	56	0.92			
12190710	SWIFT CREEK NEAR CONCRETE, WA.	36.35	October	5.49	5.61	11.10	173	177	350	49	4.8
			November	7.02	6.93	13.95	229	226	454	50	6.3
			December	4.98	2.87	7.84	157	90	247	63	4.3
			January	4.80	4.96	9.76	151	156	308	49	4.2
			February	4.25	2.97	7.22	147	103	250	59	4
			March	*	*	9.50	*	*	300	*	*
			April	*	*	13.03	*	*	425	*	*
			May	*	*	20.92	*	*	660	*	*
			June	*	*	25.33	*	*	825	*	*
			July	*	*	20.52	*	*	647	*	*
August	8.21	2.04	10.24	259	64	323	80	7.1			
September	4.89	1.97	6.86	159	64	224	71	4.4			
12190718	PARK CREEK AT UPPER BRIDGE NEAR CONCRETE, WA.	10.5	October	6.54	5.21	11.75	60	47	107	56	5.7
			November	6.40	5.57	11.96	60	52	113	53	5.7
			December	3.69	2.98	6.67	34	27	61	55	3.2
			January	4.08	4.04	8.12	37	37	74	50	3.5
			February	3.70	2.37	6.07	37	24	61	61	3.5
			March	*	*	7.84	*	*	71	*	*
			April	*	*	10.23	*	*	96	*	*
			May	*	*	16.17	*	*	147	*	*
			June	*	*	22.24	*	*	209	*	*
			July	*	*	23.63	*	*	215	*	*
August	14.10	3.99	18.09	128	36	165	78	12			
September	8.30	2.94	11.23	78	28	106	74	7.4			
12191500	BAKER RIVER BELOW ANDERSON CR, NEAR CONCRETE, WA.	211	October	5.93	4.16	10.08	1090	761	1850	59	5.1
			November	5.77	3.26	9.02	1090	616	1710	64	5.2
			December	5.96	4.26	10.22	1090	780	1870	58	5.2
			January	6.00	2.21	8.21	1100	405	1500	73	5.2
			February	5.08	1.94	7.03	1020	390	1410	72	4.8
			March	4.62	1.22	5.84	846	223	1070	79	4
			April	*	*	9.13	*	*	1730	*	*
			May	*	*	15.77	*	*	2890	*	*
			June	*	*	19.05	*	*	3600	*	*
			July	*	*	16.33	*	*	2990	*	*
August	8.48	1.22	9.69	1550	223	1770	87	7.4			
September	5.71	2.29	8.00	1080	433	1510	71	5.1			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12191800	SULPHUR CREEK NEAR CONCRETE, WA.	8.36	October	5.70	1.43	7.12	41	10	52	80	4.9
			November	5.75	1.47	7.21	43	11	54	80	5.1
			December	5.58	1.19	6.77	40	8.6	49	82	4.8
			January	4.06	1.61	5.67	29	12	41	72	3.5
			February	3.58	0.78	4.36	28	6.2	35	82	3.4
			March	3.25	0.51	3.76	24	3.7	27	86	2.8
			April	3.14	0.60	3.74	24	4.5	28	84	2.8
			May	*	*	6.71	*	*	49	*	*
			June	*	*	9.16	*	*	69	*	*
			July	*	*	7.71	*	*	56	*	*
			August	4.12	0.35	4.47	30	2.6	32	92	3.6
			September	3.93	0.70	4.63	29	5.3	35	85	3.5
12192600	BEAR CREEK BELOW TRIBUTARIES NEAR CONCRETE, WA.	14.4	October	3.73	2.57	6.30	47	32	79	59	3.2
			November	8.65	4.21	12.87	112	54	166	67	7.8
			December	3.91	2.19	6.10	49	27	76	64	3.4
			January	7.35	4.90	12.25	92	61	153	60	6.4
			February	5.22	3.27	8.49	72	45	116	62	5
			March	6.39	1.48	7.87	80	18	98	81	5.5
			April	5.61	1.31	6.92	72	17	89	81	5
			May	6.32	1.95	8.28	79	24	103	76	5.5
			June	5.45	1.20	6.65	70	15	86	82	4.9
			July	2.96	1.34	4.30	37	17	54	69	2.6
			August	1.02	0.11	1.14	13	1.4	14	90	0.89
			September	1.17	0.43	1.60	15	5.6	21	73	1
12193500	BAKER RIVER AT CONCRETE, WA.	297	October	*	*	9.47	*	*	2440	*	*
			November	*	*	12.29	*	*	3270	*	*
			December	*	*	11.37	*	*	2930	*	*
			January	*	*	10.51	*	*	2710	*	*
			February	*	*	8.86	*	*	2510	*	*
			March	*	*	8.22	*	*	2120	*	*
			April	*	*	7.31	*	*	1950	*	*
			May	*	*	11.22	*	*	2890	*	*
			June	*	*	14.11	*	*	3760	*	*
			July	*	*	12.86	*	*	3310	*	*
			August	*	*	7.98	*	*	2060	*	*
			September	*	*	6.70	*	*	1780	*	*
12194000	SKAGIT RIVER NEAR CONCRETE, WA.	2737	October	*	*	4.65	*	*	11000	*	*
			November	*	*	6.27	*	*	15400	*	*
			December	*	*	6.72	*	*	16000	*	*
			January	*	*	6.19	*	*	14700	*	*
			February	*	*	5.32	*	*	13900	*	*
			March	*	*	5.12	*	*	12200	*	*
			April	*	*	5.66	*	*	13900	*	*
			May	*	*	8.69	*	*	20600	*	*
			June	*	*	10.09	*	*	24800	*	*
			July	*	*	8.13	*	*	19300	*	*
			August	*	*	4.53	*	*	10800	*	*
			September	*	*	3.47	*	*	8520	*	*



## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12194500	FINNEY CREEK NEAR CONCRETE WA.	51.6	October	2.21	3.77	5.98	99	169	267	37	1.9
			November	5.70	3.12	8.82	264	144	408	65	5.1
			December	7.05	3.59	10.64	316	160	476	66	6.1
			January	6.34	3.81	10.15	284	171	454	62	5.5
			February	4.44	3.47	7.91	218	171	389	56	4.2
			March	4.83	1.82	6.65	216	81	297	73	4.2
			April	5.85	1.74	7.59	271	81	351	77	5.2
			May	7.98	2.27	10.25	357	102	459	78	6.9
			June	4.73	1.03	5.76	219	48	266	82	4.2
			July	1.61	0.19	1.80	72	8.5	80	89	1.4
			August	0.76	0.10	0.86	34	4.6	38	88	0.66
			September	1.12	0.77	1.89	52	36	87	59	1
12196000	ALDER CREEK NEAR HAMILTON, WA.	10.7	October	1.99	0.62	2.61	18	5.7	24	76	1.7
			November	3.36	1.12	4.49	32	11	43	75	3
			December	4.68	1.52	6.20	43	14	58	76	4.1
			January	5.06	1.64	6.70	47	15	62	76	4.4
			February	4.65	1.29	5.94	47	13	60	78	4.4
			March	4.56	0.73	5.29	42	6.8	49	86	4
			April	4.16	0.61	4.77	40	5.8	46	87	3.7
			May	2.99	0.27	3.26	28	2.5	30	92	2.6
			June	1.91	0.11	2.02	18	1.1	19	95	1.7
			July	1.44	0.04	1.48	13	0.33	14	98	1.3
			August	1.11	0.04	1.15	10	0.32	11	97	0.96
			September	1.06	0.10	1.16	10	0.96	11	91	0.95
12196200	DAY CREEK BELOW DAY LAKE, NEAR LYMAN, WA.	6.56	October	6.13	3.64	9.77	35	21	56	63	5.3
			November	8.11	4.39	12.49	48	26	73	65	7.3
			December	8.48	5.59	14.07	48	32	80	60	7.4
			January	8.76	6.47	15.23	50	37	87	58	7.6
			February	8.59	4.84	13.43	54	30	84	64	8.2
			March	8.15	4.24	12.39	46	24	71	66	7.1
			April	9.82	2.80	12.62	58	16	74	78	8.8
			May	9.85	2.29	12.14	56	13	69	81	8.5
			June	5.39	1.25	6.64	32	7.3	39	81	4.8
			July	2.82	1.59	4.41	16	9	25	64	2.4
			August	1.66	0.47	2.13	9.4	2.7	12	78	1.4
			September	3.01	1.98	4.99	18	12	29	60	2.7
12196400	DAY CREEK NEAR HAMILTON, WA.	32.3	October	4.07	5.55	9.62	114	156	270	42	3.5
			November	5.32	7.03	12.35	154	204	358	43	4.8
			December	6.81	7.63	14.44	191	214	404	47	5.9
			January	5.40	8.43	13.83	151	236	388	39	4.7
			February	4.97	5.31	10.28	153	163	316	48	4.7
			March	5.28	3.90	9.17	148	109	257	58	4.6
			April	6.73	3.16	9.88	195	91	286	68	6
			May	7.08	3.14	10.22	198	88	286	69	6.1
			June	4.18	1.39	5.57	121	40	161	75	3.7
			July	1.76	0.91	2.66	49	25	75	66	1.5
			August	0.86	0.77	1.63	24	22	46	53	0.75
			September	1.50	2.17	3.67	43	63	106	41	1.3

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean	Mean	Mean	Mean	Mean	Mean BF	Mean	
				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12196500	DAY CREEK NEAR LYMAN, WA.	34.2	October	3.83	5.73	9.56	113	170	283	40	3.3
			November	5.68	7.10	12.78	174	218	392	44	5.1
			December	7.35	7.35	14.70	218	218	436	50	6.4
			January	6.83	6.55	13.38	203	194	397	51	5.9
			February	6.00	6.23	12.23	195	203	398	49	5.7
			March	5.62	3.82	9.43	167	113	280	60	4.9
			April	7.20	3.91	11.10	221	120	340	65	6.4
			May	7.36	2.59	9.95	218	77	295	74	6.4
			June	4.36	1.92	6.28	134	59	193	69	3.9
			July	1.79	0.62	2.41	53	18	71	74	1.6
August	0.93	0.62	1.55	28	18	46	60	0.81			
September	1.16	1.85	3.01	36	57	92	39	1			
12197040	TANK CREEK NEAR LYMAN WA.	2.5	October	0.11	0.09	0.20	0.23	0.2	0.43	54	0.09
			November	0.64	0.59	1.23	1.4	1.3	2.8	52	0.57
			December	1.68	1.49	3.17	3.6	3.2	6.9	53	1.5
			January	1.47	0.70	2.16	3.2	1.5	4.7	68	1.3
			February	1.28	0.37	1.65	3	0.88	3.9	78	1.2
			March	1.28	0.29	1.57	2.8	0.63	3.4	82	1.1
			April	0.96	0.21	1.17	2.2	0.47	2.6	82	0.86
			May	0.57	0.15	0.72	1.2	0.32	1.6	80	0.5
			June	0.31	0.11	0.42	0.68	0.26	0.94	73	0.27
			July	0.09	0.04	0.12	0.19	0.08	0.27	72	0.08
August	0.03	0.03	0.07	0.07	0.07	0.14	52	0.03			
September	0.06	0.05	0.11	0.13	0.11	0.24	55	0.05			
12197110	MINKLER CREEK NEAR LYMAN WA.	5	October	0.04	0.02	0.06	0.19	0.07	0.26	75	0.04
			November	0.97	0.64	1.61	4.3	2.9	7.2	60	0.87
			December	2.23	1.64	3.87	9.7	7.1	17	58	1.9
			January	1.80	0.90	2.70	7.8	3.9	12	67	1.6
			February	1.67	0.38	2.04	7.9	1.8	9.7	82	1.6
			March	1.62	0.42	2.05	7	1.8	8.9	79	1.4
			April	1.44	0.25	1.68	6.4	1.1	7.5	85	1.3
			May	0.77	0.23	1.00	3.3	1	4.3	77	0.67
			June	0.23	0.14	0.37	1	0.62	1.6	62	0.2
			July	0.07	0.02	0.09	0.32	0.08	0.4	80	0.06
August	0.03	0.01	0.05	0.14	0.06	0.2	70	0.03			
September	0.04	0.04	0.08	0.16	0.18	0.35	47	0.03			
12197680	BLACK CREEK NEAR MINKLER, WA.	5	October	0.19	0.13	0.32	0.81	0.56	1.4	59	0.16
			November	0.53	0.36	0.89	2.4	1.6	4	59	0.48
			December	0.69	1.01	1.70	3	4.4	7.4	41	0.6
			January	0.38	0.40	0.78	1.7	1.7	3.4	49	0.33
			February	0.35	0.18	0.52	1.7	0.84	2.5	66	0.33
			March	0.49	0.18	0.67	2.1	0.77	2.9	74	0.43
			April	0.65	0.23	0.88	2.9	1	4	74	0.58
			May	0.45	0.18	0.63	1.9	0.79	2.7	71	0.39
			June	0.18	0.11	0.29	0.79	0.51	1.3	61	0.16
			July	0.07	0.02	0.09	0.29	0.09	0.38	76	0.06
August	0.07	0.06	0.13	0.3	0.28	0.58	52	0.06			
September	0.12	0.10	0.22	0.54	0.43	0.97	56	0.11			

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				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12197700	WISEMAN CREEK NEAR LYMAN WA.	3	October	1.31	0.76	2.07	3.4	2	5.4	63	1.1
			November	3.35	2.08	5.43	9	5.6	15	62	3
			December	6.26	5.02	11.28	16	13	29	55	5.4
			January	5.51	3.42	8.93	14	8.9	23	62	4.8
			February	4.47	1.41	5.89	13	4	17	76	4.3
			March	4.62	1.22	5.83	12	3.2	15	79	4
			April	5.68	1.40	7.08	15	3.8	19	80	5.1
			May	4.80	0.98	5.78	12	2.6	15	83	4.2
			June	2.71	0.88	3.59	7.3	2.4	9.7	75	2.4
			July	1.28	0.47	1.75	3.3	1.2	4.6	73	1.1
			August	0.80	0.33	1.12	2.1	0.85	2.9	71	0.69
			September	0.99	0.62	1.61	2.7	1.7	4.3	62	0.89
12199000	SKAGIT RIVER NEAR SEDRO WOOLLEY, WA.	3015	October	*	*	3.72	*	*	9740	*	*
			November	*	*	6.13	*	*	16600	*	*
			December	*	*	7.10	*	*	18600	*	*
			January	*	*	5.45	*	*	14300	*	*
			February	*	*	4.06	*	*	11700	*	*
			March	*	*	4.42	*	*	11500	*	*
			April	*	*	5.30	*	*	14300	*	*
			May	*	*	8.31	*	*	21700	*	*
			June	*	*	10.66	*	*	28800	*	*
			July	*	*	8.58	*	*	22400	*	*
			August	*	*	4.74	*	*	12400	*	*
			September	*	*	3.35	*	*	9060	*	*
12199800	EAST FORK NOOKACHAMPS CREEK NEAR BIG LAKE, WA.	3.56	October	3.25	3.21	6.47	10	9.9	20	50	2.8
			November	5.03	4.23	9.26	16	13	30	54	4.5
			December	5.73	4.08	9.81	18	13	30	58	5
			January	5.04	5.83	10.87	16	18	34	46	4.4
			February	5.04	4.01	9.06	17	14	31	56	4.8
			March	5.28	2.90	8.18	16	9	25	65	4.6
			April	6.98	2.88	9.86	22	9.2	31	71	6.3
			May	9.52	3.95	13.48	29	12	42	71	8.3
			June	5.66	1.57	7.23	18	5	23	78	5.1
			July	2.03	1.11	3.14	6.3	3.4	9.7	65	1.8
			August	0.88	0.91	1.79	2.7	2.8	5.5	49	0.76
			September	1.56	2.03	3.59	5	6.5	11	43	1.4
12200000	E.F. NOOKACHAMPS CREEK NEAR CLEAR LAKE, WA.	20.5	October	1.76	3.10	4.85	31	55	86	36	1.5
			November	4.08	3.98	8.06	75	73	148	51	3.7
			December	4.27	3.86	8.13	76	69	145	53	3.7
			January	3.87	3.26	7.13	69	58	127	54	3.4
			February	3.46	2.69	6.15	67	53	120	56	3.3
			March	3.82	1.58	5.40	68	28	96	71	3.3
			April	4.01	1.68	5.69	74	31	105	71	3.6
			May	3.53	1.36	4.89	63	24	87	72	3.1
			June	1.79	1.32	3.11	33	24	57	58	1.6
			July	0.52	0.38	0.89	9.2	6.7	16	58	0.45
			August	0.34	0.55	0.89	6	9.8	16	38	0.29
			September	0.50	0.90	1.40	9.2	17	26	36	0.45

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12200500	SKAGIT RIVER NEAR MOUNT VERNON, WA.	3093	October	*	*	4.55	*	*	12200	*	*
			November	*	*	6.54	*	*	18100	*	*
			December	*	*	7.06	*	*	18900	*	*
			January	*	*	6.53	*	*	17500	*	*
			February	*	*	5.75	*	*	16900	*	*
			March	*	*	5.34	*	*	14300	*	*
			April	*	*	5.45	*	*	15100	*	*
			May	*	*	7.72	*	*	20700	*	*
			June	*	*	8.96	*	*	24800	*	*
			July	*	*	7.60	*	*	20400	*	*
12201000	FRIDAY CREEK NEAR BURLINGTON, WA.	37.1	October	0.55	0.87	1.42	18	28	46	39	0.48
			November	2.91	0.93	3.84	97	31	128	76	2.6
			December	2.84	1.52	4.36	91	49	140	65	2.5
			January	3.77	2.30	6.07	121	74	195	62	3.3
			February	3.24	0.89	4.13	114	31	146	78	3.1
			March	2.76	0.84	3.60	89	27	116	77	2.4
			April	1.92	0.65	2.56	64	22	85	75	1.7
			May	0.94	0.45	1.40	30	15	45	67	0.82
			June	0.53	0.26	0.79	18	8.6	26	67	0.48
			July	0.22	0.05	0.27	7.2	1.4	8.7	83	0.19
12201500	SAMISH RIVER NEAR BURLINGTON, WA.	87.8	October	1.20	0.81	2.01	91	62	153	60	1
			November	2.60	1.46	4.06	204	115	319	64	2.3
			December	3.84	1.94	5.78	293	148	440	66	3.3
			January	4.55	2.30	6.85	346	175	522	66	3.9
			February	3.89	1.73	5.62	325	144	470	69	3.7
			March	3.52	1.11	4.64	268	85	353	76	3.1
			April	2.85	0.69	3.54	224	54	279	80	2.6
			May	1.86	0.44	2.30	142	33	175	81	1.6
			June	1.05	0.26	1.30	82	20	103	80	0.94
			July	0.61	0.13	0.74	46	10	56	82	0.53
12203000	WHATCOM CREEK NEAR BELLINGHAM, WA.	55.4	October	0.09	0.36	0.45	4.3	17	21	20	0.08
			November	1.03	0.61	1.64	51	30	81	63	0.93
			December	1.28	1.17	2.45	61	56	118	52	1.1
			January	3.45	1.52	4.97	166	73	239	69	3
			February	2.08	1.11	3.19	110	58	168	65	2
			March	1.05	1.00	2.05	50	48	98	51	0.91
			April	0.45	0.60	1.05	22	30	52	43	0.4
			May	0.27	0.13	0.40	13	6.2	19	68	0.24
			June	0.22	0.15	0.37	11	7.4	19	60	0.2
			July	0.12	0.07	0.19	5.6	3.6	9.2	61	0.1
August	0.10	0.06	0.15	4.6	2.8	7.4	62	0.08			
September	0.13	0.07	0.19	6.3	3.2	9.5	66	0.11			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12203500	WHATCOM CREEK BELOW HATCHERY NEAR BELLINGHAM, WA.	56.1	October	*	*	0.23	*	*	11	*	*
			November	*	*	1.16	*	*	59	*	*
			December	*	*	4.84	*	*	235	*	*
			January	*	*	4.15	*	*	202	*	*
			February	*	*	3.80	*	*	203	*	*
			March	*	*	2.88	*	*	140	*	*
			April	*	*	1.55	*	*	78	*	*
			May	*	*	0.34	*	*	16	*	*
			June	*	*	0.18	*	*	9.1	*	*
			July	*	*	0.15	*	*	7.3	*	*
			August	*	*	0.14	*	*	7	*	*
			September	*	*	0.11	*	*	5.7	*	*
12205000	N.F. NOOKSACK R BELOW CASCADE CREEK NEAR GLACIER, WA.	105	October	4.56	2.69	7.25	415	245	660	63	4
			November	5.05	2.81	7.85	475	264	739	64	4.5
			December	4.68	2.39	7.08	427	218	644	66	4.1
			January	3.67	1.88	5.55	334	171	505	66	3.2
			February	3.26	1.57	4.83	326	157	483	67	3.1
			March	3.41	1.12	4.53	311	102	412	75	3
			April	*	*	6.03	*	*	567	*	*
			May	*	*	12.41	*	*	1130	*	*
			June	*	*	16.22	*	*	1530	*	*
			July	*	*	14.35	*	*	1310	*	*
			August	7.48	1.26	8.74	681	115	796	86	6.5
			September	4.78	1.46	6.24	450	137	587	77	4.3
12205500	N.F. NOOKSACK RIVER NEAR GLACIER, WA.	195	October	2.66	1.80	4.46	449	305	754	60	2.3
			November	4.08	1.59	5.68	714	278	992	72	3.7
			December	3.88	1.70	5.59	657	288	945	70	3.4
			January	2.98	2.28	5.26	504	386	889	57	2.6
			February	2.49	0.45	2.94	463	83	546	85	2.4
			March	*	*	4.05	*	*	686	*	*
			April	*	*	6.53	*	*	1140	*	*
			May	*	*	10.48	*	*	1770	*	*
			June	*	*	12.73	*	*	2220	*	*
			July	*	*	9.86	*	*	1670	*	*
			August	4.97	0.87	5.84	841	147	988	85	4.3
			September	3.57	1.18	4.75	623	206	830	75	3.2
12207200	N.F. NOOKSACK RIVER NEAR DEMING, WA.	282	October	3.29	1.72	5.01	804	420	1220	66	2.9
			November	3.69	2.34	6.03	933	590	1520	61	3.3
			December	4.36	2.62	6.98	1070	641	1710	62	3.8
			January	3.74	2.94	6.67	914	718	1630	56	3.2
			February	3.42	1.62	5.04	919	435	1350	68	3.3
			March	*	*	5.32	*	*	1300	*	*
			April	*	*	4.88	*	*	1230	*	*
			May	*	*	9.14	*	*	2230	*	*
			June	*	*	11.25	*	*	2840	*	*
			July	*	*	9.35	*	*	2290	*	*
			August	4.76	0.91	5.67	1160	222	1390	84	4.1
			September	3.03	1.20	4.23	765	303	1070	72	2.7

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12208000	M.F. NOOKSACK RIVER NEAR DEMING, WA.	73.3	October	4.51	3.52	8.03	287	224	510	56	3.9
			November	4.60	3.87	8.47	302	254	556	54	4.1
			December	4.55	4.36	8.91	289	277	567	51	3.9
			January	4.96	4.23	9.20	316	269	585	54	4.3
			February	4.33	3.05	7.38	302	213	515	59	4.1
			March	3.61	2.52	6.13	229	160	389	59	3.1
			April	*	*	6.41	*	*	421	*	*
			May	*	*	9.45	*	*	601	*	*
			June	*	*	9.72	*	*	638	*	*
			July	*	*	7.24	*	*	461	*	*
August	3.65	1.06	4.70	232	67	299	78	3.2			
September	3.19	2.26	5.45	209	149	358	58	2.9			
12209000	S.F. NOOKSACK RIVER NEAR WICKERSHAM, WA.	103	October	3.49	3.50	6.99	312	312	624	50	3
			November	5.75	5.14	10.89	531	474	1010	53	5.2
			December	6.86	4.91	11.77	613	438	1050	58	6
			January	5.90	4.62	10.51	527	412	939	56	5.1
			February	4.96	3.24	8.20	486	317	804	61	4.7
			March	5.30	2.49	7.78	473	222	695	68	4.6
			April	6.66	2.38	9.04	615	220	835	74	6
			May	8.82	3.15	11.97	788	281	1070	74	7.7
			June	7.25	2.11	9.36	669	195	864	77	6.5
			July	4.00	0.97	4.98	358	87	445	80	3.5
August	1.86	0.44	2.29	166	39	205	81	1.6			
September	1.72	1.28	3.00	158	118	277	57	1.5			
12209500	SKOOKUM CREEK NEAR WICKERSHAM, WA.	23.1	October	4.15	2.37	6.52	83	48	131	64	3.6
			November	5.43	2.99	8.42	112	62	174	64	4.9
			December	5.97	3.07	9.04	120	62	181	66	5.2
			January	5.22	2.68	7.90	105	54	158	66	4.5
			February	4.83	2.19	7.03	106	48	155	69	4.6
			March	4.19	1.53	5.72	84	31	115	73	3.6
			April	5.46	1.79	7.25	113	37	150	75	4.9
			May	7.21	2.11	9.32	144	42	187	77	6.2
			June	6.48	1.38	7.86	134	29	163	82	5.8
			July	3.96	0.57	4.53	79	11	91	87	3.4
August	2.27	0.51	2.78	46	10	56	82	2			
September	2.15	0.96	3.11	44	20	64	69	1.9			
12210500	NOOKSACK RIVER AT DEMING, WA.	584	October	2.97	2.32	5.29	1510	1170	2680	56	2.6
			November	4.25	3.26	7.51	2220	1710	3930	57	3.8
			December	4.86	3.40	8.26	2460	1720	4180	59	4.2
			January	4.33	2.85	7.18	2190	1450	3640	60	3.8
			February	3.79	2.27	6.06	2110	1260	3370	63	3.6
			March	4.17	1.65	5.82	2110	833	2950	72	3.6
			April	4.86	1.47	6.33	2540	769	3310	77	4.4
			May	6.66	2.12	8.79	3380	1080	4450	76	5.8
			June	6.90	1.88	8.79	3610	986	4600	79	6.2
			July	5.39	1.16	6.54	2730	585	3310	82	4.7
August	3.29	0.58	3.87	1670	296	1960	85	2.9			
September	2.39	0.95	3.34	1250	498	1750	72	2.1			

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12211500	NOOKSACK RIVER NEAR LYNDEN, WA.	648	October	2.92	2.90	5.82	1640	1630	3270	50	2.5
			November	4.21	3.22	7.43	2450	1870	4320	57	3.8
			December	4.96	3.25	8.21	2790	1830	4620	60	4.3
			January	4.71	2.64	7.35	2650	1480	4130	64	4.1
			February	4.06	2.53	6.59	2500	1560	4060	62	3.9
			March	3.93	1.28	5.21	2210	721	2930	75	3.4
			April	*	*	6.12	*	*	3550	*	*
			May	*	*	8.78	*	*	4940	*	*
			June	*	*	8.81	*	*	5120	*	*
			July	*	*	6.36	*	*	3570	*	*
August	3.22	0.62	3.83	1810	348	2160	84	2.8			
September	2.32	0.89	3.21	1350	519	1860	72	2.1			
12212000	FISHTRAP CREEK AT LYNDEN, WA.	22.3	October	0.65	0.21	0.86	13	4	17	76	0.57
			November	1.48	0.62	2.10	30	12	42	71	1.3
			December	2.41	1.07	3.48	47	21	67	69	2.1
			January	2.82	1.21	4.03	55	23	78	70	2.4
			February	2.80	1.04	3.84	59	22	81	73	2.7
			March	2.55	0.57	3.12	49	11	60	82	2.2
			April	1.84	0.35	2.19	37	7.1	44	84	1.7
			May	1.21	0.18	1.39	23	3.5	27	87	1
			June	0.71	0.09	0.80	14	1.7	16	89	0.64
			July	0.48	0.02	0.50	9.3	0.44	9.7	95	0.42
August	0.35	0.02	0.37	6.7	0.44	7.2	94	0.3			
September	0.33	0.05	0.38	6.7	0.96	7.6	87	0.3			
12213100	NOOKSACK RIVER AT FERNDALE, WA.	786	October	2.26	1.53	3.79	1540	1040	2590	60	2
			November	3.93	3.15	7.08	2770	2220	4990	55	3.5
			December	4.31	3.12	7.43	2940	2120	5070	58	3.7
			January	3.88	3.09	6.97	2650	2100	4750	56	3.4
			February	3.61	2.33	5.94	2700	1750	4450	61	3.4
			March	3.91	1.62	5.53	2670	1110	3770	71	3.4
			April	4.04	1.20	5.24	2850	846	3690	77	3.6
			May	5.15	1.54	6.69	3510	1050	4560	77	4.5
			June	5.33	1.48	6.81	3750	1040	4800	78	4.8
			July	4.13	0.99	5.12	2820	672	3490	81	3.6
August	2.59	0.43	3.03	1770	296	2060	86	2.2			
September	1.93	0.74	2.67	1360	520	1880	72	1.7			
12214000	DAKOTA CREEK NEAR BLAINE, WA.	18.4	October	0.20	0.09	0.29	3.2	1.4	4.6	70	0.18
			November	1.12	0.95	2.07	18	16	34	54	1
			December	2.15	1.97	4.12	34	31	66	52	1.9
			January	2.36	2.33	4.69	38	37	75	50	2
			February	2.93	2.21	5.14	51	39	90	57	2.8
			March	2.41	1.58	3.99	38	25	64	60	2.1
			April	1.07	0.45	1.52	18	7.4	25	70	0.96
			May	0.55	0.24	0.79	8.7	3.8	13	70	0.48
			June	0.23	0.08	0.31	3.9	1.2	5.1	76	0.21
			July	0.15	0.03	0.18	2.5	0.4	2.9	86	0.13
August	0.13	0.02	0.15	2.1	0.27	2.4	89	0.11			
September	0.13	0.02	0.14	2.1	0.25	2.3	89	0.11			

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12323000	COLUMBIA RIVER AT BIRCHBANK, B.C.	34000	October	*	*	1.80	*	*	53200	*	*
			November	*	*	1.92	*	*	58600	*	*
			December	*	*	2.59	*	*	76400	*	*
			January	*	*	3.00	*	*	88300	*	*
			February	*	*	2.38	*	*	77100	*	*
			March	*	*	1.82	*	*	53600	*	*
			April	*	*	1.55	*	*	47300	*	*
			May	*	*	2.44	*	*	71800	*	*
			June	*	*	3.07	*	*	93400	*	*
			July	*	*	2.97	*	*	87600	*	*
12395500	PEND OREILLE RIVER AT NEWPORT, ID.	24200	October	*	*	0.80	*	*	16900	*	*
			November	*	*	0.83	*	*	18000	*	*
			December	*	*	0.76	*	*	16000	*	*
			January	*	*	0.72	*	*	15200	*	*
			February	*	*	0.70	*	*	16200	*	*
			March	*	*	0.89	*	*	18700	*	*
			April	*	*	1.26	*	*	27300	*	*
			May	*	*	2.42	*	*	50900	*	*
			June	*	*	2.94	*	*	63700	*	*
			July	*	*	1.59	*	*	33300	*	*
12396000	CALISPELL CREEK NEAR DALKENA, WA.	68.3	October	0.22	0.07	0.29	13	4.3	17	75	0.19
			November	0.26	0.13	0.38	16	7.8	24	67	0.23
			December	0.37	0.18	0.55	22	11	33	67	0.32
			January	0.40	0.17	0.57	24	10	34	70	0.35
			February	0.54	0.29	0.82	35	19	54	65	0.51
			March	*	*	1.35	*	*	80	*	*
			April	*	*	3.90	*	*	239	*	*
			May	*	*	3.79	*	*	225	*	*
			June	*	*	1.24	*	*	76	*	*
			July	0.39	0.11	0.49	23	6.3	29	78	0.33
12396500	PEND OREILLE RIVER BELOW BOX CANYON NEAR IONE, WA.	24900	October	*	*	1.01	*	*	21700	*	*
			November	*	*	1.00	*	*	22300	*	*
			December	*	*	0.87	*	*	18900	*	*
			January	*	*	0.84	*	*	18200	*	*
			February	*	*	0.86	*	*	20300	*	*
			March	*	*	1.09	*	*	23500	*	*
			April	*	*	1.39	*	*	31100	*	*
			May	*	*	2.34	*	*	50600	*	*
			June	*	*	2.73	*	*	60900	*	*
			July	*	*	1.35	*	*	29200	*	*
August	*	*	0.57	*	*	12400	*	*			
September	*	*	0.66	*	*	14800	*	*			



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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean	Mean	Mean	Mean	Mean	Mean BF	Mean	
				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12396900	SULLIVAN CR ABOVE OUTLET CR NEAR METALINE FALLS, WA.	70.2	October	0.61	0.05	0.66	37	3.3	40	92	0.53
			November	0.59	0.09	0.68	37	5.7	43	87	0.53
			December	0.54	0.10	0.64	33	6.2	39	84	0.46
			January	0.45	0.07	0.53	28	4.4	32	86	0.39
			February	0.48	0.04	0.51	32	2.5	34	93	0.45
			March	*	*	0.81	*	*	49	*	*
			April	*	*	2.02	*	*	127	*	*
			May	*	*	8.11	*	*	494	*	*
			June	*	*	6.72	*	*	423	*	*
			July	*	*	1.75	*	*	107	*	*
August	0.75	0.04	0.79	46	2.2	48	95	0.65			
September	0.55	0.07	0.63	35	4.7	40	88	0.5			
12397100	OUTLET CREEK NEAR METALINE FALLS, WA.	51.5	October	*	*	4.65	*	*	208	*	*
			November	*	*	4.40	*	*	203	*	*
			December	*	*	1.90	*	*	85	*	*
			January	*	*	1.00	*	*	44	*	*
			February	*	*	0.64	*	*	31	*	*
			March	*	*	0.71	*	*	32	*	*
			April	*	*	0.52	*	*	24	*	*
			May	*	*	0.86	*	*	39	*	*
			June	*	*	3.07	*	*	142	*	*
			July	*	*	0.99	*	*	44	*	*
August	*	*	0.52	*	*	23	*	*			
September	*	*	0.59	*	*	27	*	*			
12397500	SULLIVAN CREEK NEAR METALINE FALLS, WA.	122	October	*	*	0.90	*	*	96	*	*
			November	*	*	0.93	*	*	102	*	*
			December	*	*	0.93	*	*	98	*	*
			January	*	*	0.92	*	*	98	*	*
			February	*	*	0.87	*	*	100	*	*
			March	*	*	0.99	*	*	105	*	*
			April	*	*	1.61	*	*	176	*	*
			May	*	*	4.55	*	*	481	*	*
			June	*	*	4.71	*	*	515	*	*
			July	*	*	1.88	*	*	199	*	*
August	*	*	1.08	*	*	114	*	*			
September	*	*	0.96	*	*	105	*	*			
12398000	SULLIVAN CREEK AT METALINE FALLS, WA.	142	October	*	*	1.86	*	*	228	*	*
			November	*	*	1.61	*	*	205	*	*
			December	*	*	1.27	*	*	156	*	*
			January	*	*	0.80	*	*	98	*	*
			February	*	*	0.61	*	*	83	*	*
			March	*	*	0.95	*	*	117	*	*
			April	*	*	1.70	*	*	216	*	*
			May	*	*	5.58	*	*	688	*	*
			June	*	*	5.47	*	*	696	*	*
			July	*	*	1.48	*	*	182	*	*
August	*	*	0.68	*	*	84	*	*			
September	*	*	0.72	*	*	91	*	*			

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12398500	PEND OREILLE RIVER B Z CNYN NEAR METALINE FLLS, WA.	25200	October	*	*	0.57	*	*	12400	*	*
			November	*	*	0.66	*	*	14900	*	*
			December	*	*	0.68	*	*	14800	*	*
			January	*	*	0.68	*	*	14900	*	*
			February	*	*	0.63	*	*	15200	*	*
			March	*	*	0.76	*	*	16700	*	*
			April	*	*	1.20	*	*	27000	*	*
			May	*	*	2.65	*	*	57900	*	*
			June	*	*	3.39	*	*	76500	*	*
			July	*	*	1.98	*	*	43300	*	*
12398600	PEND OREILLE RIVER AT INTERNATIONAL BOUNDARY	25200	October	*	*	1.06	*	*	23100	*	*
			November	*	*	1.00	*	*	22500	*	*
			December	*	*	0.83	*	*	18100	*	*
			January	*	*	0.83	*	*	18100	*	*
			February	*	*	0.82	*	*	19700	*	*
			March	*	*	1.08	*	*	23500	*	*
			April	*	*	1.33	*	*	30000	*	*
			May	*	*	2.22	*	*	48500	*	*
			June	*	*	2.62	*	*	59200	*	*
			July	*	*	1.32	*	*	28900	*	*
12399500	COLUMBIA RIVER AT INTERNATIONAL BOUNDARY	59700	October	*	*	1.32	*	*	68100	*	*
			November	*	*	1.23	*	*	65800	*	*
			December	*	*	1.28	*	*	66100	*	*
			January	*	*	1.30	*	*	67400	*	*
			February	*	*	1.12	*	*	63400	*	*
			March	*	*	1.13	*	*	58700	*	*
			April	*	*	1.38	*	*	73700	*	*
			May	*	*	2.97	*	*	154000	*	*
			June	*	*	4.25	*	*	227000	*	*
			July	*	*	3.32	*	*	172000	*	*
12400500	SHEEP CREEK NEAR NORTHPORT, WA.	225	October	0.21	0.02	0.23	40	4.7	45	90	0.18
			November	0.25	0.04	0.29	50	7.5	58	87	0.22
			December	0.30	0.06	0.35	58	11	69	84	0.26
			January	0.26	0.02	0.28	51	4.5	55	92	0.22
			February	0.25	0.02	0.27	53	5.1	58	91	0.24
			March	*	*	0.80	*	*	155	*	*
			April	*	*	3.71	*	*	749	*	*
			May	*	*	4.42	*	*	862	*	*
			June	*	*	1.80	*	*	363	*	*
			July	0.51	0.11	0.62	99	22	121	82	0.44
August	0.20	0.02	0.23	40	4.3	44	90	0.18			
September	0.18	0.02	0.20	35	4.4	40	89	0.16			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12401500	KETTLE RIVER NEAR FERRY, WA.	2200	October	0.17	0.03	0.20	328	61	389	84	0.15
			November	0.16	0.04	0.19	306	73	379	81	0.14
			December	0.11	0.03	0.14	206	65	271	76	0.09
			January	0.10	0.02	0.11	181	36	218	83	0.08
			February	0.10	0.01	0.11	201	27	228	88	0.09
			March	*	*	0.22	*	*	420	*	*
			April	*	*	1.25	*	*	2470	*	*
			May	*	*	3.54	*	*	6760	*	*
			June	*	*	2.58	*	*	5090	*	*
			July	*	*	0.78	*	*	1500	*	*
			August	0.18	0.05	0.23	351	90	441	80	0.16
			September	0.15	0.04	0.18	288	69	357	81	0.13
12404500	KETTLE RIVER NEAR LAURIER, WA.	3800	October	0.18	0.03	0.21	593	99	692	86	0.16
			November	0.18	0.04	0.22	613	140	753	81	0.16
			December	0.14	0.04	0.18	471	132	603	78	0.12
			January	0.13	0.03	0.16	428	82	511	84	0.11
			February	0.14	0.02	0.16	492	69	561	88	0.13
			March	*	*	0.33	*	*	1080	*	*
			April	*	*	1.52	*	*	5170	*	*
			May	*	*	3.72	*	*	12200	*	*
			June	*	*	2.70	*	*	9200	*	*
			July	*	*	0.85	*	*	2800	*	*
			August	0.21	0.05	0.25	679	158	837	81	0.18
			September	0.16	0.03	0.19	531	109	640	83	0.14
12405500	COLUMBIA RIVER AT KETTLE FALLS, WA.	64500	October	*	*	0.91	*	*	51000	*	*
			November	*	*	0.75	*	*	43200	*	*
			December	*	*	0.64	*	*	35600	*	*
			January	*	*	0.55	*	*	30900	*	*
			February	*	*	0.46	*	*	28200	*	*
			March	*	*	0.56	*	*	31600	*	*
			April	*	*	1.09	*	*	63200	*	*
			May	*	*	3.21	*	*	179000	*	*
			June	*	*	4.88	*	*	282000	*	*
			July	*	*	4.06	*	*	227000	*	*
			August	*	*	2.25	*	*	126000	*	*
			September	*	*	1.35	*	*	78000	*	*
12407000	SHEEP CREEK AT LOON LAKE, WA.	37.9	October	0.00	0.00	0.00	0	0	0	0	0
			November	0.00	0.00	0.00	0	0.03	0.03	0	0
			December	0.00	0.00	0.00	0	0.07	0.07	0	0
			January	0.05	0.07	0.12	1.7	2.2	3.9	44	0.05
			February	0.11	0.13	0.24	3.9	4.7	8.6	45	0.1
			March	0.04	0.06	0.10	1.2	2.1	3.3	36	0.03
			April	*	*	0.26	*	*	8.7	*	*
			May	*	*	0.09	*	*	2.9	*	*
			June	0.01	0.02	0.03	0.34	0.58	0.92	37	0.009
			July	0.00	0.00	0.00	0.03	0.03	0.07	50	0.001
			August	0.00	0.00	0.00	0	0	0	0	0
			September	0.00	0.00	0.00	0	0	0	0	0

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12407500	SHEEP CREEK AT SPRINGDALE, WA.	48.2	October	0.23	0.01	0.24	9.6	0.29	9.9	97	0.2
			November	0.24	0.01	0.25	10	0.52	11	95	0.21
			December	0.23	0.02	0.25	9.5	0.75	10	93	0.2
			January	0.24	0.03	0.27	9.9	1.3	11	89	0.2
			February	0.29	0.05	0.34	13	2.2	15	86	0.27
			March	0.34	0.06	0.40	14	2.4	17	86	0.3
			April	0.40	0.06	0.46	17	2.5	20	87	0.36
			May	0.29	0.03	0.32	12	1	13	92	0.25
			June	0.23	0.01	0.24	9.8	0.6	10	94	0.2
			July	0.21	0.01	0.22	8.9	0.29	9.2	97	0.18
			August	0.21	0.01	0.22	8.7	0.29	9	97	0.18
			September	0.20	0.02	0.21	8.6	0.65	9.2	93	0.18
12407520	DEER CREEK NEAR VALLEY, WA.	36	October	0.19	0.01	0.20	6	0.37	6.3	94	0.17
			November	0.23	0.04	0.27	7.4	1.4	8.8	84	0.21
			December	0.26	0.06	0.31	8	1.7	9.7	82	0.22
			January	0.26	0.05	0.31	8.1	1.6	9.8	83	0.23
			February	0.45	0.09	0.54	15	3.2	19	83	0.43
			March	*	*	1.11	*	*	35	*	*
			April	*	*	1.92	*	*	62	*	*
			May	*	*	1.18	*	*	37	*	*
			June	*	*	0.45	*	*	14	*	*
			July	0.23	0.02	0.24	7.1	0.5	7.6	93	0.2
			August	0.15	0.01	0.17	4.8	0.44	5.2	92	0.13
			September	0.16	0.01	0.17	5	0.32	5.4	94	0.14
12407700	CHEWELAH CREEK AT CHEWELAH, WA.	94.1	October	0.17	0.02	0.18	13	1.3	15	91	0.14
			November	0.19	0.04	0.22	16	3	19	84	0.17
			December	0.21	0.06	0.27	17	4.5	22	80	0.19
			January	0.25	0.05	0.30	21	3.8	24	84	0.22
			February	0.29	0.05	0.35	26	4.7	31	85	0.28
			March	*	*	0.54	*	*	44	*	*
			April	*	*	1.07	*	*	90	*	*
			May	*	*	1.22	*	*	99	*	*
			June	*	*	0.62	*	*	52	*	*
			July	0.20	0.02	0.22	16	2	18	89	0.17
			August	0.10	0.01	0.11	7.8	1.1	9	87	0.08
			September	0.11	0.02	0.14	9.4	2	11	82	0.1
12408000	COLVILLE RIVER AT BLUE CREEK, WA.	428	October	0.19	0.01	0.20	70	3.3	73	95	0.16
			November	0.20	0.05	0.25	76	20	96	79	0.18
			December	0.19	0.05	0.24	70	19	89	78	0.16
			January	0.21	0.05	0.26	78	19	97	81	0.18
			February	0.27	0.14	0.41	112	56	167	67	0.26
			March	*	*	0.62	*	*	231	*	*
			April	*	*	0.84	*	*	321	*	*
			May	*	*	0.67	*	*	248	*	*
			June	*	*	0.31	*	*	120	*	*
			July	0.13	0.02	0.15	48	7.8	55	86	0.11
			August	0.11	0.02	0.13	42	6.3	48	87	0.1
			September	0.13	0.01	0.14	51	4.6	55	92	0.12

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi2)	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft3/sec)	Mean Surface Runoff (ft3/sec)	Mean Streamflow (ft3/sec)	Mean BF as % of Streamflow	Mean Baseflow (ft3/sec/mi2)
12408300	LITTLE PEND OREILLE RIVER NEAR COLVILLE, WA.	132	October	0.16	0.01	0.17	18	1.5	20	92	0.14
			November	0.19	0.03	0.22	22	4	26	85	0.17
			December	0.20	0.05	0.25	23	6	29	79	0.17
			January	0.24	0.04	0.28	27	4.4	32	86	0.21
			February	0.27	0.03	0.29	33	3.5	37	90	0.25
			March	*	*	0.54	*	*	61	*	*
			April	*	*	1.52	*	*	180	*	*
			May	*	*	1.61	*	*	184	*	*
			June	*	*	0.62	*	*	73	*	*
			July	0.25	0.03	0.28	29	3.2	32	90	0.22
			August	0.16	0.01	0.17	18	1.4	19	93	0.14
			September	0.14	0.01	0.15	17	1.4	18	92	0.13
12408420	HALLER CREEK NEAR ARDEN, WA.	37	October	0.05	0.01	0.05	1.5	0.19	1.7	89	0.04
			November	0.06	0.02	0.08	2.1	0.56	2.7	79	0.06
			December	0.08	0.02	0.10	2.5	0.51	3	83	0.07
			January	0.08	0.01	0.09	2.4	0.35	2.8	87	0.07
			February	0.12	0.02	0.14	4.3	0.74	5.1	85	0.12
			March	*	*	0.38	*	*	12	*	*
			April	*	*	0.88	*	*	29	*	*
			May	*	*	0.65	*	*	21	*	*
			June	*	*	0.22	*	*	7.1	*	*
			July	0.06	0.01	0.07	1.8	0.29	2.1	86	0.05
			August	0.03	0.01	0.03	0.8	0.16	0.96	83	0.02
			September	0.03	0.01	0.03	0.93	0.2	1.1	82	0.03
12408500	MILL CREEK NEAR COLVILLE, WA.	83	October	0.18	0.02	0.20	13	1.1	14	92	0.16
			November	0.20	0.03	0.23	15	2.1	17	88	0.18
			December	0.22	0.04	0.26	16	3	19	84	0.19
			January	0.21	0.03	0.24	15	1.9	17	89	0.18
			February	0.26	0.04	0.31	21	3.2	24	87	0.25
			March	*	*	0.74	*	*	53	*	*
			April	*	*	2.12	*	*	158	*	*
			May	*	*	2.10	*	*	151	*	*
			June	*	*	0.89	*	*	66	*	*
			July	0.38	0.03	0.41	27	2.3	29	92	0.33
			August	0.19	0.02	0.20	14	1.1	15	93	0.16
			September	0.15	0.02	0.16	11	1.1	12	91	0.13
12408700	MILL CREEK AT MOUTH NEAR COLVILLE, WA.	146	October	0.15	0.01	0.16	19	1.4	20	93	0.13
			November	0.18	0.02	0.20	24	2.1	26	92	0.16
			December	0.18	0.02	0.20	23	2	25	92	0.16
			January	0.17	0.02	0.19	21	2.7	24	89	0.15
			February	0.24	0.03	0.27	33	4.2	38	89	0.23
			March	*	*	0.50	*	*	63	*	*
			April	*	*	1.44	*	*	188	*	*
			May	*	*	1.70	*	*	215	*	*
			June	*	*	0.63	*	*	83	*	*
			July	0.24	0.01	0.25	30	1.4	31	96	0.2
			August	0.13	0.01	0.14	16	1.4	17	92	0.11
			September	0.13	0.01	0.13	16	1.2	18	93	0.11

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12409000	COLVILLE RIVER AT KETTLE FALLS, WA.	1007	October	*	*	0.13	*	*	117	*	*
			November	*	*	0.17	*	*	153	*	*
			December	*	*	0.21	*	*	182	*	*
			January	*	*	0.24	*	*	209	*	*
			February	*	*	0.30	*	*	284	*	*
			March	*	*	0.57	*	*	494	*	*
			April	*	*	0.93	*	*	838	*	*
			May	*	*	0.79	*	*	693	*	*
			June	*	*	0.39	*	*	356	*	*
			July	*	*	0.18	*	*	156	*	*
August	*	*	0.10	*	*	87	*	*			
September	*	*	0.11	*	*	96	*	*			
12409500	HALL CREEK AT INCHELIUM, WA.	161	October	0.15	0.01	0.16	21	1.1	22	95	0.13
			November	0.16	0.03	0.19	23	4.2	27	84	0.14
			December	0.16	0.01	0.17	23	1.7	24	93	0.14
			January	0.20	0.03	0.23	28	3.5	32	89	0.18
			February	0.18	0.01	0.19	28	1.7	30	94	0.17
			March	*	*	0.46	*	*	65	*	*
			April	*	*	1.54	*	*	222	*	*
			May	*	*	1.69	*	*	236	*	*
			June	*	*	0.72	*	*	103	*	*
			July	0.25	0.02	0.27	34	2.8	37	93	0.21
August	0.13	0.01	0.14	18	1.4	19	93	0.11			
September	0.07	0.04	0.12	11	6.2	17	63	0.07			
12410000	STRANGER CREEK AT METEOR, WA.	50.9	October	0.05	0.00	0.05	2.1	0.09	2.2	96	0.04
			November	0.06	0.01	0.07	2.8	0.32	3.1	90	0.05
			December	0.07	0.03	0.10	3.2	1.2	4.4	72	0.06
			January	0.09	0.00	0.10	4.2	0.18	4.3	96	0.08
			February	0.10	0.01	0.11	4.9	0.44	5.4	92	0.1
			March	*	*	0.26	*	*	12	*	*
			April	*	*	1.09	*	*	50	*	*
			May	*	*	1.22	*	*	54	*	*
			June	*	*	0.45	*	*	20	*	*
			July	0.15	0.01	0.16	6.6	0.57	7.2	92	0.13
August	0.06	0.01	0.07	2.6	0.22	2.9	92	0.05			
September	0.04	0.01	0.05	1.6	0.64	2.2	71	0.03			
12419000	SPOKANE RIVER NEAR POST FALLS, ID.	3840	October	*	*	0.51	*	*	1700	*	*
			November	*	*	0.83	*	*	2850	*	*
			December	*	*	1.43	*	*	4750	*	*
			January	*	*	1.54	*	*	5120	*	*
			February	*	*	1.64	*	*	6010	*	*
			March	*	*	2.41	*	*	8010	*	*
			April	*	*	4.20	*	*	14500	*	*
			May	*	*	5.31	*	*	17700	*	*
			June	*	*	2.82	*	*	9700	*	*
			July	*	*	0.63	*	*	2090	*	*
August	*	*	0.29	*	*	956	*	*			
September	*	*	0.34	*	*	1170	*	*			

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12419500	SPOKANE R ABOVE LIBERTY BRG NEAR OTIS ORCHARD, WA.	3880	October	*	*	0.48	*	*	1620	*	*
			November	*	*	0.77	*	*	2690	*	*
			December	*	*	1.41	*	*	4750	*	*
			January	*	*	1.60	*	*	5370	*	*
			February	*	*	1.69	*	*	6250	*	*
			March	*	*	2.25	*	*	7580	*	*
			April	*	*	4.04	*	*	14100	*	*
			May	*	*	5.31	*	*	17900	*	*
			June	*	*	2.77	*	*	9640	*	*
			July	*	*	0.56	*	*	1880	*	*
August	*	*	0.24	*	*	814	*	*			
September	*	*	0.31	*	*	1060	*	*			
12421500	SPOKANE RIVER BELOW TRENT BRG NEAR SPOKANE, WA.	4200	October	*	*	0.58	*	*	2120	*	*
			November	*	*	0.79	*	*	2970	*	*
			December	*	*	1.28	*	*	4670	*	*
			January	*	*	1.55	*	*	5630	*	*
			February	*	*	1.94	*	*	7770	*	*
			March	*	*	2.44	*	*	8870	*	*
			April	*	*	4.26	*	*	16000	*	*
			May	*	*	6.45	*	*	23500	*	*
			June	*	*	3.58	*	*	13500	*	*
			July	*	*	0.81	*	*	2940	*	*
August	*	*	0.35	*	*	1270	*	*			
September	*	*	0.31	*	*	1160	*	*			
12422500	SPOKANE RIVER AT SPOKANE, WA.	4290	October	*	*	0.58	*	*	2150	*	*
			November	*	*	0.84	*	*	3230	*	*
			December	*	*	1.36	*	*	5070	*	*
			January	*	*	1.47	*	*	5480	*	*
			February	*	*	1.56	*	*	6370	*	*
			March	*	*	2.25	*	*	8380	*	*
			April	*	*	3.71	*	*	14300	*	*
			May	*	*	4.77	*	*	17700	*	*
			June	*	*	2.73	*	*	10500	*	*
			July	*	*	0.82	*	*	3050	*	*
August	*	*	0.44	*	*	1650	*	*			
September	*	*	0.45	*	*	1720	*	*			
12424000	HANGMAN CREEK AT SPOKANE, WA.	689	October	0.03	0.00	0.03	17	1.8	19	90	0.02
			November	0.05	0.03	0.07	30	16	46	65	0.04
			December	0.13	0.20	0.33	79	119	198	40	0.12
			January	0.27	0.54	0.80	159	320	479	33	0.23
			February	0.50	0.61	1.11	329	401	731	45	0.48
			March	0.74	0.52	1.26	441	312	753	59	0.64
			April	0.40	0.17	0.57	247	105	352	70	0.36
			May	0.19	0.14	0.33	116	83	199	58	0.17
			June	0.09	0.04	0.13	52	25	78	67	0.08
			July	0.03	0.01	0.04	20	3	23	87	0.03
August	0.02	0.00	0.02	13	1.2	14	91	0.02			
September	0.02	0.00	0.02	12	1.2	14	91	0.02			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12427000	LITTLE SPOKANE RIVER AT ELK, WA.	115	October	0.45	0.01	0.46	44	1	45	98	0.39
			November	0.44	0.01	0.46	46	1.4	47	97	0.4
			December	0.47	0.02	0.49	47	1.9	49	96	0.41
			January	0.49	0.02	0.51	49	2.4	51	95	0.42
			February	0.52	0.03	0.55	57	3.3	60	95	0.49
			March	0.67	0.03	0.70	67	2.9	70	96	0.58
			April	0.79	0.02	0.81	82	2.4	84	97	0.71
			May	0.71	0.02	0.73	71	1.8	73	98	0.61
			June	0.57	0.01	0.58	58	1.4	60	98	0.51
			July	0.49	0.01	0.50	49	0.8	50	98	0.43
August	0.44	0.01	0.45	44	0.7	45	98	0.39			
September	0.42	0.01	0.43	44	0.72	44	98	0.38			
12431000	LITTLE SPOKANE RIVER AT DARTFORD, WA.	665	October	0.26	0.01	0.27	149	6.3	156	96	0.22
			November	0.29	0.03	0.32	173	16	189	91	0.26
			December	0.35	0.06	0.41	201	35	235	85	0.3
			January	0.40	0.09	0.49	232	52	284	82	0.35
			February	0.51	0.13	0.65	325	85	410	79	0.49
			March	*	*	1.00	*	*	577	*	*
			April	*	*	1.05	*	*	626	*	*
			May	*	*	0.73	*	*	420	*	*
			June	*	*	0.44	*	*	263	*	*
			July	0.27	0.02	0.29	157	8.7	166	95	0.24
August	0.22	0.01	0.23	129	4.6	133	97	0.19			
September	0.22	0.01	0.23	132	6.6	138	95	0.2			
12431500	LITTLE SPOKANE RIVER NEAR DARTFORD, WA.	698	October	0.74	0.02	0.76	445	14	459	97	0.64
			November	0.75	0.03	0.78	469	16	485	97	0.67
			December	0.83	0.04	0.87	502	23	525	96	0.72
			January	0.85	0.04	0.89	514	23	537	96	0.74
			February	0.91	0.17	1.08	606	113	719	84	0.87
			March	*	*	1.71	*	*	1040	*	*
			April	*	*	1.70	*	*	1060	*	*
			May	*	*	1.45	*	*	877	*	*
			June	*	*	1.02	*	*	638	*	*
			July	0.76	0.01	0.77	461	5.4	466	99	0.66
August	0.67	0.01	0.68	407	3	410	99	0.58			
September	0.64	0.01	0.64	399	3.1	402	99	0.57			
12433000	SPOKANE RIVER AT LONG LAKE, WA.	6020	October	*	*	0.55	*	*	2890	*	*
			November	*	*	0.76	*	*	4100	*	*
			December	*	*	1.24	*	*	6450	*	*
			January	*	*	1.39	*	*	7230	*	*
			February	*	*	1.58	*	*	9070	*	*
			March	*	*	2.05	*	*	10700	*	*
			April	*	*	2.85	*	*	15400	*	*
			May	*	*	3.58	*	*	18700	*	*
			June	*	*	2.11	*	*	11400	*	*
			July	*	*	0.67	*	*	3490	*	*
August	*	*	0.39	*	*	2050	*	*			
September	*	*	0.43	*	*	2300	*	*			



## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12433100	CHAMOKANE CREEK NEAR SPRINGDALE, WA.	99.9	October	0.04	0.01	0.04	3.1	0.52	3.6	86	0.03
			November	0.08	0.08	0.15	6.8	6.8	14	50	0.07
			December	0.39	0.32	0.72	34	28	62	55	0.34
			January	0.40	0.18	0.58	35	15	50	69	0.35
			February	0.29	0.05	0.35	28	5.1	33	84	0.28
			March	*	*	1.44	*	*	125	*	*
			April	*	*	2.40	*	*	215	*	*
			May	*	*	0.92	*	*	79	*	*
			June	*	*	0.10	*	*	9.1	*	*
			July	0.03	0.01	0.04	2.9	0.78	3.7	79	0.03
			August	0.02	0.01	0.03	2	0.87	2.9	70	0.02
			September	0.02	0.00	0.03	2.1	0.27	2.3	88	0.02
12433200	CHAMOKANE CREEK BELOW FALLS NEAR LONG LAKE, WA.	179	October	0.17	0.01	0.18	26	2	28	93	0.14
			November	0.17	0.01	0.18	27	2.1	29	93	0.15
			December	0.22	0.06	0.29	35	9.6	44	78	0.19
			January	0.28	0.09	0.37	43	14	57	76	0.24
			February	0.34	0.09	0.43	58	15	73	79	0.32
			March	*	*	1.03	*	*	160	*	*
			April	*	*	0.99	*	*	159	*	*
			May	*	*	0.43	*	*	66	*	*
			June	*	*	0.24	*	*	38	*	*
			July	0.18	0.01	0.18	27	0.93	28	97	0.15
			August	0.17	0.00	0.17	26	0.62	26	98	0.14
			September	0.16	0.01	0.17	25	1.8	27	93	0.14
12433500	SPOKANE RIVER BELOW LITTLE FALLS NEAR LONG LAKE, WA.	6220	October	*	*	0.46	*	*	2460	*	*
			November	*	*	0.57	*	*	3170	*	*
			December	*	*	0.91	*	*	4900	*	*
			January	*	*	1.26	*	*	6800	*	*
			February	*	*	1.18	*	*	6990	*	*
			March	*	*	1.78	*	*	9610	*	*
			April	*	*	3.10	*	*	17300	*	*
			May	*	*	3.52	*	*	19000	*	*
			June	*	*	1.76	*	*	9800	*	*
			July	*	*	0.58	*	*	3150	*	*
			August	*	*	0.45	*	*	2430	*	*
			September	*	*	0.42	*	*	2350	*	*
12433561	BLUE CREEK NEAR MOUTH NEAR WELLPINIT, WA.	19.1	October	0.03	0.00	0.03	0.45	0.07	0.51	87	0.02
			November	0.03	0.01	0.04	0.51	0.1	0.62	83	0.03
			December	0.03	0.02	0.05	0.55	0.27	0.81	67	0.03
			January	0.11	0.07	0.17	1.8	1.1	2.8	62	0.09
			February	0.22	0.07	0.29	3.9	1.3	5.2	76	0.21
			March	*	*	0.78	*	*	13	*	*
			April	*	*	0.41	*	*	7.1	*	*
			May	*	*	0.16	*	*	2.7	*	*
			June	*	*	0.09	*	*	1.5	*	*
			July	0.04	0.00	0.04	0.58	0.05	0.63	92	0.03
			August	0.02	0.00	0.02	0.28	0.05	0.33	85	0.015
			September	0.02	0.00	0.02	0.36	0.03	0.39	91	0.02

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi2)	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft3/sec)	Mean Surface Runoff (ft3/sec)	Mean Streamflow (ft3/sec)	Mean BF as % of Streamflow	Mean Baseflow (ft3/sec/mi2)
12434500	SANPOIL RIVER NEAR KELLER, WA.	880	October	0.06	0.00	0.07	48	2.3	50	95	0.05
			November	0.10	0.02	0.12	76	17	92	82	0.09
			December	0.22	0.07	0.29	164	56	221	74	0.19
			January	0.31	0.10	0.40	236	73	308	76	0.27
			February	0.23	0.02	0.25	188	20	209	90	0.21
			March	*	*	0.59	*	*	448	*	*
			April	*	*	0.82	*	*	648	*	*
			May	*	*	0.94	*	*	717	*	*
			June	*	*	0.46	*	*	359	*	*
			July	0.16	0.02	0.18	119	18	137	87	0.14
			August	0.07	0.01	0.08	53	5.3	59	91	0.06
			September	0.04	0.01	0.06	35	11	46	76	0.04
12436500	COLUMBIA RIVER AT GRAND COULEE, WA.	74700	October	*	*	1.03	*	*	66600	*	*
			November	*	*	1.01	*	*	67900	*	*
			December	*	*	1.12	*	*	72800	*	*
			January	*	*	1.20	*	*	77800	*	*
			February	*	*	1.12	*	*	79300	*	*
			March	*	*	1.25	*	*	80700	*	*
			April	*	*	1.46	*	*	97800	*	*
			May	*	*	2.62	*	*	170000	*	*
			June	*	*	3.47	*	*	233000	*	*
			July	*	*	2.73	*	*	177000	*	*
			August	*	*	1.69	*	*	110000	*	*
			September	*	*	1.13	*	*	75700	*	*
12437500	NESPELEM RIVER AT NESPELEM, WA.	122	October	0.10	0.00	0.10	10	0.21	11	98	0.09
			November	0.13	0.01	0.14	14	0.98	15	93	0.11
			December	0.12	0.02	0.14	12	2.5	15	83	0.1
			January	0.14	0.02	0.15	14	1.6	16	90	0.12
			February	0.16	0.02	0.18	19	2.2	21	90	0.16
			March	*	*	0.64	*	*	68	*	*
			April	*	*	1.40	*	*	154	*	*
			May	*	*	1.29	*	*	137	*	*
			June	*	*	0.60	*	*	65	*	*
			July	0.21	0.02	0.23	22	1.9	24	92	0.18
			August	0.11	0.01	0.11	11	0.63	12	95	0.09
			September	0.09	0.00	0.09	9.7	0.22	10	98	0.08
12438000	COLUMBIA RIVER AT BRIDGEPORT, WA.	75700	October	*	*	1.13	*	*	74100	*	*
			November	*	*	1.16	*	*	78400	*	*
			December	*	*	1.32	*	*	86700	*	*
			January	*	*	1.43	*	*	94000	*	*
			February	*	*	1.36	*	*	98200	*	*
			March	*	*	1.49	*	*	97600	*	*
			April	*	*	1.52	*	*	103000	*	*
			May	*	*	2.32	*	*	152000	*	*
			June	*	*	2.99	*	*	203000	*	*
			July	*	*	2.42	*	*	159000	*	*
			August	*	*	1.63	*	*	107000	*	*
			September	*	*	1.14	*	*	77100	*	*

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean	Mean	Mean	Mean	Mean	Mean BF	Mean	
				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12438700	OKANOGAN RIVER NEAR OLIVER, B.C.	2930	October	*	*	0.16	*	*	414	*	*
			November	*	*	0.14	*	*	355	*	*
			December	*	*	0.12	*	*	305	*	*
			January	*	*	0.14	*	*	366	*	*
			February	*	*	0.18	*	*	510	*	*
			March	*	*	0.27	*	*	681	*	*
			April	*	*	0.28	*	*	746	*	*
			May	*	*	0.45	*	*	1140	*	*
			June	*	*	0.43	*	*	1130	*	*
			July	*	*	0.34	*	*	864	*	*
12439300	TONASKET CREEK AT OROVILLE, WA.	60.1	October	0.01	0.01	0.02	0.63	0.36	0.99	63	0.01
			November	0.01	0.00	0.01	0.48	0.22	0.7	69	0.008
			December	0.01	0.00	0.01	0.36	0.21	0.57	64	0.006
			January	0.01	0.02	0.02	0.36	0.78	1.1	32	0.006
			February	0.02	0.02	0.04	1	0.97	2	51	0.02
			March	*	*	0.11	*	*	5.6	*	*
			April	*	*	0.19	*	*	10	*	*
			May	*	*	0.16	*	*	8.3	*	*
			June	*	*	0.07	*	*	3.6	*	*
			July	0.02	0.01	0.03	1	0.63	1.7	63	0.02
12439500	OKANOGAN RIVER AT OROVILLE, WA.	3195	October	*	*	0.18	*	*	510	*	*
			November	*	*	0.17	*	*	475	*	*
			December	*	*	0.17	*	*	463	*	*
			January	*	*	0.18	*	*	491	*	*
			February	*	*	0.19	*	*	584	*	*
			March	*	*	0.24	*	*	671	*	*
			April	*	*	0.27	*	*	762	*	*
			May	*	*	0.42	*	*	1160	*	*
			June	*	*	0.41	*	*	1180	*	*
			July	*	*	0.30	*	*	826	*	*
12442000	TOATS COULEE CREEK NEAR LOOMIS, WA.	130	October	0.09	0.02	0.10	9.6	1.8	11	84	0.07
			November	0.06	0.02	0.08	7.5	2.1	9.6	78	0.06
			December	0.07	0.01	0.08	8.2	0.68	8.9	92	0.06
			January	0.07	0.01	0.08	7.9	0.9	8.8	90	0.06
			February	0.07	0.00	0.07	8.3	0.49	8.8	94	0.06
			March	*	*	0.09	*	*	9.7	*	*
			April	*	*	0.18	*	*	21	*	*
			May	*	*	1.68	*	*	189	*	*
			June	*	*	1.53	*	*	178	*	*
			July	*	*	0.38	*	*	42	*	*
August	0.10	0.03	0.13	12	3.5	15	77	0.09			
September	0.07	0.01	0.08	8.3	1.3	9.6	87	0.06			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12442300	SINLAHEKIN CREEK ABOVE CHOPAKA CREEK NEAR LOOMIS, WA.	256	October	0.09	0.01	0.10	21	2	23	91	0.08
			November	0.10	0.02	0.12	23	3.7	27	86	0.09
			December	0.11	0.01	0.11	24	1.6	25	94	0.09
			January	0.10	0.02	0.11	21	3.8	25	85	0.08
			February	0.10	0.01	0.11	23	2.4	26	90	0.09
			March	*	*	0.12	*	*	27	*	*
			April	*	*	0.12	*	*	27	*	*
			May	*	*	1.19	*	*	265	*	*
			June	*	*	0.87	*	*	200	*	*
			July	*	*	0.15	*	*	33	*	*
			August	0.05	0.01	0.06	12	1.8	14	87	0.05
			September	0.06	0.01	0.07	13	1.8	15	88	0.05
12442500	SIMILKAMEEN RIVER NEAR NIGHTHAWK, WA.	3550	October	0.18	0.05	0.23	557	142	699	80	0.16
			November	0.21	0.09	0.30	652	290	942	69	0.18
			December	0.18	0.09	0.26	548	265	813	67	0.15
			January	0.16	0.05	0.21	483	163	647	75	0.14
			February	0.15	0.05	0.20	520	159	679	77	0.15
			March	*	*	0.24	*	*	748	*	*
			April	*	*	0.65	*	*	2070	*	*
			May	*	*	2.60	*	*	8010	*	*
			June	*	*	2.76	*	*	8770	*	*
			July	*	*	0.98	*	*	3020	*	*
			August	0.28	0.02	0.31	871	68	939	93	0.25
			September	0.17	0.02	0.19	538	73	611	88	0.15
12443500	SIMILKAMEEN RIVER NEAR OROVILLE, WA.	3580	October	*	*	0.24	*	*	755	*	*
			November	*	*	0.23	*	*	748	*	*
			December	*	*	0.21	*	*	652	*	*
			January	*	*	0.20	*	*	633	*	*
			February	*	*	0.18	*	*	607	*	*
			March	*	*	0.20	*	*	606	*	*
			April	*	*	0.52	*	*	1670	*	*
			May	*	*	2.44	*	*	7590	*	*
			June	*	*	2.59	*	*	8300	*	*
			July	*	*	0.90	*	*	2800	*	*
			August	*	*	0.26	*	*	795	*	*
			September	*	*	0.18	*	*	565	*	*
12444100	WHITESTONE CREEK NEAR TONASKET, WA.	55.4	October	0.04	0.00	0.04	1.8	0.19	2	90	0.03
			November	0.03	0.00	0.04	1.7	0.15	1.8	92	0.03
			December	0.05	0.01	0.06	2.3	0.38	2.6	85	0.04
			January	0.05	0.01	0.05	2.3	0.29	2.6	89	0.04
			February	0.04	0.01	0.05	2.2	0.32	2.5	88	0.04
			March	0.05	0.01	0.06	2.3	0.53	2.8	81	0.04
			April	0.02	0.01	0.03	1.1	0.4	1.5	74	0.02
			May	0.06	0.01	0.06	2.6	0.38	3	87	0.05
			June	0.07	0.01	0.08	3.5	0.35	3.8	91	0.06
			July	0.08	0.01	0.08	3.7	0.24	4	94	0.07
			August	0.08	0.01	0.08	3.7	0.24	3.9	94	0.07
			September	0.07	0.01	0.08	3.6	0.25	3.8	94	0.06

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean	Mean	Mean	Mean	Mean	Mean BF	Mean	
				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12444490	BONAPARTE CREEK NEAR WAUCONDA, WA.	96.6	October	0.03	0.00	0.03	2.4	0.17	2.6	94	0.03
			November	0.04	0.00	0.04	3	0.26	3.3	92	0.03
			December	0.03	0.00	0.03	2.4	0.25	2.7	91	0.03
			January	0.03	0.01	0.03	2.3	0.5	2.8	82	0.02
			February	0.04	0.02	0.06	3.6	1.7	5.2	68	0.04
			March	*	*	0.10	*	*	8.5	*	*
			April	*	*	0.10	*	*	8.3	*	*
			May	*	*	0.13	*	*	11	*	*
			June	*	*	0.08	*	*	6.9	*	*
			July	0.03	0.02	0.04	2.3	1.3	3.6	65	0.02
			August	0.02	0.00	0.02	1.5	0.34	1.8	82	0.02
			September	0.02	0.00	0.02	1.6	0.17	1.7	90	0.02
12445000	OKANOGAN RIVER NEAR TONASKET, WA.	7260	October	*	*	0.19	*	*	1220	*	*
			November	*	*	0.22	*	*	1430	*	*
			December	*	*	0.21	*	*	1300	*	*
			January	*	*	0.19	*	*	1170	*	*
			February	*	*	0.18	*	*	1270	*	*
			March	*	*	0.22	*	*	1390	*	*
			April	*	*	0.41	*	*	2650	*	*
			May	*	*	1.37	*	*	8620	*	*
			June	*	*	1.52	*	*	9870	*	*
			July	*	*	0.61	*	*	3850	*	*
			August	*	*	0.24	*	*	1520	*	*
			September	*	*	0.17	*	*	1110	*	*
12446000	OKANOGAN RIVER AT OKANOGAN, WA.	7900	October	*	*	0.17	*	*	1180	*	*
			November	*	*	0.17	*	*	1230	*	*
			December	*	*	0.16	*	*	1100	*	*
			January	*	*	0.17	*	*	1160	*	*
			February	*	*	0.15	*	*	1130	*	*
			March	*	*	0.16	*	*	1080	*	*
			April	*	*	0.30	*	*	2120	*	*
			May	*	*	1.22	*	*	8370	*	*
			June	*	*	1.46	*	*	10300	*	*
			July	*	*	0.65	*	*	4420	*	*
			August	*	*	0.25	*	*	1710	*	*
			September	*	*	0.16	*	*	1100	*	*
12446500	SALMON CREEK NEAR CONCONULLY, WA.	121	October	*	*	0.05	*	*	5.1	*	*
			November	*	*	0.03	*	*	3.3	*	*
			December	*	*	0.02	*	*	1.8	*	*
			January	*	*	0.02	*	*	1.8	*	*
			February	*	*	0.02	*	*	1.8	*	*
			March	*	*	0.02	*	*	2.1	*	*
			April	*	*	0.04	*	*	4.3	*	*
			May	*	*	0.66	*	*	69	*	*
			June	*	*	0.96	*	*	105	*	*
			July	*	*	0.85	*	*	89	*	*
			August	*	*	0.78	*	*	81	*	*
			September	*	*	0.19	*	*	20	*	*

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12447000	SALMON CREEK NEAR OKANOGAN, WA.	150	October	0.09	0.02	0.11	11	2.6	14	81	0.07
			November	0.10	0.02	0.12	13	2.6	16	84	0.09
			December	0.08	0.01	0.09	11	0.91	12	92	0.07
			January	0.07	0.01	0.08	9.4	1.4	11	87	0.06
			February	0.07	0.01	0.08	10	1	11	91	0.07
			March	*	*	0.16	*	*	21	*	*
			April	*	*	0.52	*	*	70	*	*
			May	*	*	1.18	*	*	153	*	*
			June	*	*	1.11	*	*	150	*	*
			July	*	*	0.35	*	*	46	*	*
August	0.17	0.03	0.20	22	4	26	85	0.15			
September	0.10	0.01	0.11	13	1.7	15	88	0.09			
12447200	OKANOGAN RIVER AT MALOTT, WA.	8080	October	*	*	0.17	*	*	1160	*	*
			November	*	*	0.20	*	*	1460	*	*
			December	*	*	0.19	*	*	1310	*	*
			January	*	*	0.18	*	*	1250	*	*
			February	*	*	0.19	*	*	1440	*	*
			March	*	*	0.25	*	*	1770	*	*
			April	*	*	0.40	*	*	2870	*	*
			May	*	*	1.25	*	*	8780	*	*
			June	*	*	1.43	*	*	10300	*	*
			July	*	*	0.59	*	*	4140	*	*
August	*	*	0.24	*	*	1710	*	*			
September	*	*	0.17	*	*	1210	*	*			
12447300	OKANOGAN RIVER NEAR MALOTT, WA.	8220	October	*	*	0.21	*	*	1510	*	*
			November	*	*	0.22	*	*	1590	*	*
			December	*	*	0.23	*	*	1600	*	*
			January	*	*	0.20	*	*	1430	*	*
			February	*	*	0.20	*	*	1550	*	*
			March	*	*	0.20	*	*	1390	*	*
			April	*	*	0.33	*	*	2450	*	*
			May	*	*	1.04	*	*	7420	*	*
			June	*	*	1.44	*	*	10600	*	*
			July	*	*	0.50	*	*	3580	*	*
August	*	*	0.18	*	*	1260	*	*			
September	*	*	0.16	*	*	1180	*	*			
12447383	METHOW RIVER ABOVE GOAT CREEK NEAR MAZAMA, WA.	373	October	0.02	0.01	0.03	5.2	2.9	8.1	64	0.014
			November	0.10	0.12	0.21	33	38	72	46	0.09
			December	0.10	0.18	0.28	33	57	90	37	0.09
			January	0.05	0.02	0.06	15	5.5	21	73	0.04
			February	0.03	0.02	0.05	12	5.3	17	69	0.03
			March	*	*	0.46	*	*	150	*	*
			April	*	*	1.90	*	*	634	*	*
			May	*	*	6.65	*	*	2150	*	*
			June	*	*	6.23	*	*	2080	*	*
			July	*	*	2.83	*	*	917	*	*
August	0.52	0.08	0.60	169	27	195	86	0.45			
September	0.11	0.02	0.13	37	7	44	84	0.1			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12447390	ANDREWS CREEK NEAR MAZAMA, WA.	22.1	October	0.33	0.03	0.36	6.2	0.58	6.8	92	0.28
			November	0.29	0.02	0.31	5.7	0.48	6.2	92	0.26
			December	0.25	0.01	0.25	4.7	0.13	4.8	97	0.21
			January	0.20	0.01	0.21	3.9	0.19	4	95	0.17
			February	0.17	0.00	0.17	3.5	0.08	3.6	98	0.16
			March	*	*	0.20	*	*	3.8	*	*
			April	*	*	0.77	*	*	15	*	*
			May	*	*	6.00	*	*	115	*	*
			June	*	*	7.81	*	*	155	*	*
			July	*	*	2.37	*	*	45	*	*
August	0.67	0.05	0.72	13	0.96	14	93	0.58			
September	0.40	0.04	0.44	7.8	0.85	8.7	90	0.35			
12448000	CHEWUCH RIVER AT WINTHROP, WA.	525	October	0.18	0.02	0.20	82	8.7	90	90	0.16
			November	0.16	0.02	0.18	76	8	84	90	0.14
			December	0.15	0.02	0.18	70	9.6	80	88	0.13
			January	0.14	0.01	0.15	61	5.5	67	92	0.12
			February	0.13	0.01	0.14	65	6.5	72	91	0.12
			March	*	*	0.25	*	*	116	*	*
			April	*	*	0.92	*	*	432	*	*
			May	*	*	3.46	*	*	1570	*	*
			June	*	*	3.30	*	*	1550	*	*
			July	*	*	1.13	*	*	516	*	*
August	0.33	0.05	0.37	149	21	170	88	0.28			
September	0.15	0.02	0.17	71	10	81	87	0.14			
12448500	METHOW RIVER AT WINTHROP, WA.	1007	October	0.28	0.01	0.30	248	12	260	95	0.25
			November	0.33	0.11	0.44	300	97	396	76	0.3
			December	0.33	0.07	0.40	290	63	353	82	0.29
			January	0.27	0.02	0.29	238	15	253	94	0.24
			February	0.26	0.01	0.27	244	12	257	95	0.24
			March	*	*	0.54	*	*	471	*	*
			April	*	*	1.62	*	*	1460	*	*
			May	*	*	5.09	*	*	4450	*	*
			June	*	*	5.14	*	*	4640	*	*
			July	*	*	1.85	*	*	1610	*	*
August	0.55	0.07	0.62	484	59	543	89	0.48			
September	0.30	0.02	0.32	271	17	288	94	0.27			
12448998	TWISP RIVER NEAR TWISP, WA.	245	October	0.25	0.03	0.29	54	7	61	88	0.22
			November	0.33	0.18	0.52	73	40	113	64	0.3
			December	0.35	0.16	0.52	75	34	109	69	0.31
			January	0.30	0.03	0.33	64	6.8	70	90	0.26
			February	0.31	0.02	0.33	72	5.4	77	93	0.29
			March	*	*	0.60	*	*	128	*	*
			April	*	*	1.60	*	*	351	*	*
			May	*	*	4.00	*	*	849	*	*
			June	*	*	4.21	*	*	925	*	*
			July	*	*	2.01	*	*	428	*	*
August	0.47	0.04	0.51	100	7.4	108	93	0.41			
September	0.21	0.03	0.24	47	6.1	53	88	0.19			

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12449500	METHOW RIVER AT TWISP, WA.	1301	October	0.34	0.04	0.38	378	46	424	89	0.29
			November	0.35	0.05	0.40	408	63	471	87	0.31
			December	0.31	0.05	0.36	346	60	406	85	0.27
			January	0.25	0.03	0.28	286	28	314	91	0.22
			February	0.24	0.03	0.26	291	31	322	90	0.22
			March	*	*	0.39	*	*	441	*	*
			April	*	*	1.37	*	*	1600	*	*
			May	*	*	4.50	*	*	5080	*	*
			June	*	*	4.22	*	*	4920	*	*
			July	*	*	1.54	*	*	1740	*	*
August	0.41	0.03	0.44	462	32	493	94	0.35			
September	0.25	0.02	0.27	286	26	311	92	0.22			
12449600	BEAVER CREEK BELOW SOUTH FORK, NEAR TWISP, WA.	62	October	0.13	0.01	0.15	7.2	0.75	8	91	0.12
			November	0.13	0.02	0.15	7.1	1.3	8.3	85	0.11
			December	0.12	0.01	0.14	6.6	0.75	7.4	90	0.11
			January	0.12	0.01	0.13	6.2	0.48	6.7	93	0.1
			February	0.11	0.01	0.12	6.7	0.3	7	96	0.11
			March	*	*	0.15	*	*	8	*	*
			April	*	*	0.30	*	*	17	*	*
			May	*	*	1.46	*	*	79	*	*
			June	*	*	1.21	*	*	67	*	*
			July	*	*	0.38	*	*	21	*	*
August	0.16	0.02	0.18	8.6	1.2	9.8	87	0.14			
September	0.13	0.01	0.14	7	0.67	7.7	91	0.11			
12449700	BEAVER CREEK NEAR TWISP, WA.	68.1	October	0.18	0.01	0.20	11	0.71	12	94	0.16
			November	0.14	0.02	0.16	8.7	1.3	10	87	0.13
			December	0.17	0.01	0.19	10	0.77	11	93	0.15
			January	0.16	0.01	0.17	9.5	0.35	9.8	96	0.14
			February	0.15	0.01	0.16	9.5	0.52	10	95	0.14
			March	*	*	0.19	*	*	11	*	*
			April	*	*	0.36	*	*	22	*	*
			May	*	*	2.33	*	*	138	*	*
			June	*	*	1.20	*	*	73	*	*
			July	*	*	0.41	*	*	24	*	*
August	0.18	0.02	0.20	11	0.89	12	92	0.16			
September	0.16	0.02	0.18	9.8	0.92	11	91	0.14			
12449950	METHOW RIVER NEAR PATEROS, WA.	1772	October	0.29	0.03	0.32	441	46	487	91	0.25
			November	0.29	0.05	0.34	457	78	535	85	0.26
			December	0.26	0.06	0.31	393	89	483	82	0.22
			January	0.24	0.04	0.28	369	58	427	86	0.21
			February	0.23	0.02	0.25	388	37	425	91	0.22
			March	*	*	0.40	*	*	615	*	*
			April	*	*	1.00	*	*	1590	*	*
			May	*	*	3.29	*	*	5060	*	*
			June	*	*	3.74	*	*	5950	*	*
			July	*	*	1.40	*	*	2150	*	*
August	0.43	0.03	0.46	655	45	699	94	0.37			
September	0.26	0.02	0.29	418	35	453	92	0.24			



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12450500	METHOW RIVER AT PATEROS, WA.	1810	October	0.32	0.02	0.34	501	31	532	94	0.28
			November	0.31	0.03	0.34	505	41	545	93	0.28
			December	0.27	0.02	0.29	419	38	457	92	0.23
			January	0.23	0.02	0.25	366	30	396	92	0.2
			February	0.21	0.01	0.22	362	19	381	95	0.2
			March	*	*	0.34	*	*	538	*	*
			April	*	*	1.14	*	*	1850	*	*
			May	*	*	3.10	*	*	4860	*	*
			June	*	*	3.73	*	*	6050	*	*
			July	*	*	1.61	*	*	2530	*	*
			August	0.45	0.03	0.47	702	41	743	95	0.39
			September	0.29	0.02	0.31	474	31	505	94	0.26
12450700	COLUMBIA RIVER BELOW WELLS DAM, WA.	86100	October	*	*	1.06	*	*	79100	*	*
			November	*	*	1.14	*	*	88300	*	*
			December	*	*	1.37	*	*	102000	*	*
			January	*	*	1.48	*	*	111000	*	*
			February	*	*	1.39	*	*	114000	*	*
			March	*	*	1.52	*	*	113000	*	*
			April	*	*	1.48	*	*	114000	*	*
			May	*	*	2.02	*	*	151000	*	*
			June	*	*	2.14	*	*	165000	*	*
			July	*	*	1.77	*	*	132000	*	*
			August	*	*	1.41	*	*	106000	*	*
			September	*	*	1.03	*	*	79400	*	*
12451000	STEHEKIN RIVER AT STEHEKIN, WA.	321	October	1.57	0.64	2.20	436	177	613	71	1.4
			November	1.65	0.75	2.40	475	216	691	69	1.5
			December	1.39	0.51	1.90	387	142	529	73	1.2
			January	1.08	0.37	1.45	301	103	404	75	0.94
			February	1.03	0.28	1.31	316	85	401	79	0.98
			March	*	*	1.91	*	*	532	*	*
			April	*	*	5.03	*	*	1450	*	*
			May	*	*	12.81	*	*	3570	*	*
			June	*	*	14.41	*	*	4150	*	*
			July	*	*	9.41	*	*	2620	*	*
			August	3.86	0.64	4.49	1070	177	1250	86	3.3
			September	1.97	0.46	2.43	566	133	700	81	1.8
12451500	RAILROAD CREEK AT LUCERNE, WA.	64.8	October	1.23	0.33	1.57	69	19	88	79	1.1
			November	1.20	0.31	1.52	70	18	88	79	1.1
			December	1.02	0.19	1.21	57	10	68	85	0.89
			January	0.77	0.14	0.91	43	7.9	51	85	0.67
			February	0.66	0.11	0.77	41	6.5	47	86	0.63
			March	*	*	1.03	*	*	58	*	*
			April	*	*	3.17	*	*	184	*	*
			May	*	*	9.14	*	*	514	*	*
			June	*	*	10.84	*	*	629	*	*
			July	*	*	7.15	*	*	402	*	*
			August	3.08	0.33	3.41	173	19	192	90	2.7
			September	1.59	0.25	1.84	92	15	107	86	1.4

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12451600	SAFETY HARBOR CREEK NEAR MANSON, WA.	7.85	October	0.24	0.02	0.26	1.7	0.12	1.8	93	0.21
			November	0.24	0.02	0.25	1.7	0.11	1.8	94	0.21
			December	0.21	0.01	0.22	1.4	0.05	1.5	96	0.18
			January	0.21	0.02	0.23	1.4	0.13	1.6	92	0.18
			February	0.24	0.00	0.25	1.8	0.01	1.8	99	0.23
			March	*	*	0.33	*	*	2.3	*	*
			April	*	*	1.01	*	*	7.1	*	*
			May	*	*	7.64	*	*	52	*	*
			June	*	*	12.41	*	*	87	*	*
			July	*	*	1.93	*	*	13	*	*
			August	0.43	0.02	0.45	2.9	0.16	3.1	95	0.37
			September	0.25	0.01	0.26	1.8	0.07	1.9	96	0.23
12451620	GRADE CREEK NEAR MANSON, WA.	8.45	October	0.30	0.01	0.31	2.2	0.09	2.3	96	0.26
			November	0.27	0.02	0.29	2	0.14	2.2	94	0.24
			December	0.23	0.01	0.23	1.6	0.05	1.7	97	0.2
			January	0.23	0.01	0.24	1.7	0.07	1.8	96	0.2
			February	0.25	0.00	0.25	2	0.03	2	98	0.24
			March	*	*	0.35	*	*	2.6	*	*
			April	*	*	1.00	*	*	7.6	*	*
			May	*	*	3.63	*	*	27	*	*
			June	*	*	2.77	*	*	21	*	*
			July	*	*	0.90	*	*	6.6	*	*
			August	0.42	0.02	0.44	3.1	0.14	3.2	96	0.36
			September	0.28	0.01	0.28	2.1	0.06	2.1	97	0.25
12451650	GOLD CREEK NEAR MANSON, WA.	6.3	October	0.06	0.00	0.06	0.31	0.01	0.31	98	0.05
			November	0.06	0.00	0.06	0.33	0.01	0.34	98	0.05
			December	0.06	0.00	0.06	0.32	0.01	0.32	98	0.05
			January	0.06	0.00	0.06	0.31	0.01	0.32	97	0.05
			February	0.06	0.00	0.06	0.37	0.01	0.38	98	0.06
			March	*	*	0.10	*	*	0.54	*	*
			April	*	*	0.26	*	*	1.5	*	*
			May	*	*	0.74	*	*	4	*	*
			June	*	*	0.40	*	*	2.3	*	*
			July	*	*	0.15	*	*	0.81	*	*
			August	0.07	0.00	0.08	0.4	0.01	0.42	97	0.06
			September	0.06	0.00	0.06	0.31	0	0.31	100	0.05
12452500	CHELAN RIVER AT CHELAN, WA.	924	October	*	*	2.07	*	*	1660	*	*
			November	*	*	2.00	*	*	1650	*	*
			December	*	*	2.07	*	*	1660	*	*
			January	*	*	2.03	*	*	1630	*	*
			February	*	*	1.75	*	*	1540	*	*
			March	*	*	1.80	*	*	1440	*	*
			April	*	*	1.67	*	*	1380	*	*
			May	*	*	3.00	*	*	2400	*	*
			June	*	*	5.12	*	*	4240	*	*
			July	*	*	4.51	*	*	3620	*	*
			August	*	*	2.28	*	*	1830	*	*
			September	*	*	1.87	*	*	1550	*	*

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12452800	ENTIAT RIVER NEAR ARDENVOIR, WA.	203	October	0.48	0.07	0.55	85	12	97	88	0.42
			November	0.52	0.16	0.68	95	29	124	77	0.47
			December	0.53	0.19	0.72	94	33	127	74	0.46
			January	0.48	0.12	0.60	85	21	106	80	0.42
			February	0.52	0.08	0.60	101	16	116	87	0.5
			March	*	*	0.87	*	*	153	*	*
			April	*	*	1.81	*	*	329	*	*
			May	*	*	6.08	*	*	1070	*	*
			June	*	*	7.90	*	*	1440	*	*
			July	*	*	3.59	*	*	631	*	*
			August	1.14	0.08	1.22	200	14	214	94	0.99
			September	0.58	0.05	0.63	105	8.6	114	92	0.52
12453000	ENTIAT RIVER AT ENTIAT, WA.	419	October	0.38	0.05	0.43	139	18	157	89	0.33
			November	0.39	0.06	0.45	146	21	167	88	0.35
			December	0.36	0.08	0.44	132	28	159	83	0.31
			January	0.35	0.06	0.40	127	20	147	86	0.3
			February	0.29	0.05	0.34	117	20	137	86	0.28
			March	*	*	0.48	*	*	174	*	*
			April	*	*	1.24	*	*	465	*	*
			May	*	*	4.28	*	*	1550	*	*
			June	*	*	4.94	*	*	1860	*	*
			July	*	*	2.35	*	*	856	*	*
			August	0.69	0.05	0.74	250	19	269	93	0.6
			September	0.37	0.04	0.41	139	14	152	91	0.33
12453700	COLUMBIA RIVER AT ROCKY REACH DAM, WA.	87800	October	*	*	1.04	*	*	79000	*	*
			November	*	*	1.09	*	*	86100	*	*
			December	*	*	1.29	*	*	98000	*	*
			January	*	*	1.37	*	*	104000	*	*
			February	*	*	1.30	*	*	109000	*	*
			March	*	*	1.41	*	*	107000	*	*
			April	*	*	1.40	*	*	110000	*	*
			May	*	*	2.06	*	*	157000	*	*
			June	*	*	2.56	*	*	201000	*	*
			July	*	*	2.00	*	*	153000	*	*
			August	*	*	1.43	*	*	109000	*	*
			September	*	*	1.00	*	*	79000	*	*
12454000	WHITE RIVER NEAR PLAIN, WA.	150	October	1.82	0.76	2.57	236	98	335	71	1.6
			November	2.28	0.90	3.18	307	121	428	72	2
			December	2.23	1.35	3.59	291	176	467	62	1.9
			January	1.93	0.80	2.73	251	104	355	71	1.7
			February	1.83	0.53	2.36	261	76	337	77	1.7
			March	*	*	2.73	*	*	356	*	*
			April	*	*	5.28	*	*	710	*	*
			May	*	*	14.19	*	*	1850	*	*
			June	*	*	17.95	*	*	2410	*	*
			July	*	*	12.08	*	*	1570	*	*
			August	4.25	0.57	4.82	553	74	627	88	3.7
			September	1.97	0.51	2.48	264	69	333	79	1.8

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12455000	WENATCHEE RIVER BELOW WENATCHEE LAKE, WA.	273	October	1.58	0.83	2.41	374	196	570	66	1.4
			November	2.43	1.06	3.49	593	260	854	70	2.2
			December	2.38	1.01	3.39	564	238	802	70	2.1
			January	1.95	0.53	2.48	461	126	586	79	1.7
			February	1.54	0.60	2.14	400	156	556	72	1.5
			March	*	*	2.63	*	*	623	*	*
			April	*	*	6.43	*	*	1570	*	*
			May	*	*	14.66	*	*	3470	*	*
			June	*	*	14.79	*	*	3620	*	*
			July	*	*	8.64	*	*	2050	*	*
August	2.69	0.22	2.90	637	51	688	93	2.3			
September	1.34	0.20	1.53	327	48	375	87	1.2			
12456000	PHELPS CREEK NEAR PLAIN, WA.	16.4	October	1.22	0.30	1.52	17	4.3	22	80	1.1
			November	0.89	0.09	0.98	13	1.3	14	91	0.8
			December	0.74	0.11	0.85	10	1.6	12	87	0.64
			January	0.61	0.03	0.64	8.6	0.47	9.1	95	0.53
			February	0.43	0.04	0.47	6.7	0.64	7.4	91	0.41
			March	*	*	0.69	*	*	9.8	*	*
			April	*	*	2.83	*	*	42	*	*
			May	*	*	13.05	*	*	186	*	*
			June	*	*	14.13	*	*	208	*	*
			July	*	*	6.80	*	*	97	*	*
August	1.70	0.08	1.77	24	1.1	25	96	1.5			
September	0.67	0.15	0.82	9.8	2.2	12	81	0.6			
12456500	CHIWAWA RIVER NEAR PLAIN, WA.	170	October	0.97	0.23	1.19	142	33	176	81	0.84
			November	1.16	0.35	1.50	176	53	229	77	1
			December	1.07	0.21	1.28	158	30	188	84	0.93
			January	0.84	0.14	0.99	124	21	145	86	0.73
			February	0.76	0.14	0.90	122	23	145	84	0.72
			March	*	*	1.33	*	*	196	*	*
			April	*	*	4.05	*	*	617	*	*
			May	*	*	11.05	*	*	1630	*	*
			June	*	*	10.25	*	*	1560	*	*
			July	*	*	5.44	*	*	801	*	*
August	1.73	0.10	1.82	254	14	269	95	1.5			
September	0.97	0.11	1.07	147	16	164	90	0.87			
12457000	WENATCHEE RIVER AT PLAIN, WA.	591	October	1.29	0.46	1.74	660	234	894	74	1.1
			November	1.76	0.84	2.60	931	447	1380	68	1.6
			December	1.77	0.88	2.65	908	450	1360	67	1.5
			January	1.55	0.57	2.12	796	291	1090	73	1.3
			February	1.49	0.46	1.95	836	260	1100	76	1.4
			March	*	*	2.39	*	*	1230	*	*
			April	*	*	5.04	*	*	2670	*	*
			May	*	*	11.39	*	*	5840	*	*
			June	*	*	12.08	*	*	6400	*	*
			July	*	*	6.75	*	*	3460	*	*
August	2.17	0.19	2.36	1110	98	1210	92	1.9			
September	1.13	0.17	1.30	597	92	689	87	1			

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12458000	ICICLE CREEK ABOVE SNOW CREEK NEAR LEAVENWORTH, WA.	193	October	1.08	0.44	1.52	181	73	254	71	0.94
			November	1.43	0.77	2.20	247	133	380	65	1.3
			December	1.50	0.61	2.11	251	102	353	71	1.3
			January	1.28	0.35	1.62	214	58	272	79	1.1
			February	1.19	0.45	1.64	218	83	301	72	1.1
			March	*	*	1.72	*	*	288	*	*
			April	*	*	3.86	*	*	668	*	*
			May	*	*	10.44	*	*	1750	*	*
			June	*	*	11.32	*	*	1960	*	*
			July	*	*	5.44	*	*	910	*	*
August	1.50	0.10	1.60	251	17	268	94	1.3			
September	0.81	0.14	0.94	139	24	163	85	0.72			
12458500	ICICLE CREEK NEAR LEAVENWORTH WA.	211	October	0.95	0.17	1.12	174	31	205	85	0.82
			November	1.14	0.45	1.60	216	85	302	72	1
			December	1.11	0.07	1.18	204	13	217	94	0.96
			January	1.17	0.37	1.54	214	68	281	76	1
			February	1.10	0.14	1.24	221	29	249	89	1
			March	*	*	1.47	*	*	268	*	*
			April	*	*	3.71	*	*	702	*	*
			May	*	*	10.07	*	*	1840	*	*
			June	*	*	11.31	*	*	2140	*	*
			July	*	*	4.79	*	*	876	*	*
August	1.50	0.07	1.57	274	13	287	95	1.3			
September	0.96	0.21	1.17	181	40	221	82	0.86			
12459000	WENATCHEE RIVER AT PESHASTIN, WA.	1000	October	0.98	0.34	1.32	850	291	1140	74	0.85
			November	1.39	0.74	2.12	1240	661	1900	65	1.2
			December	1.41	0.70	2.11	1220	607	1830	67	1.2
			January	1.26	0.47	1.73	1090	411	1500	73	1.1
			February	1.25	0.44	1.69	1190	422	1610	74	1.2
			March	*	*	2.15	*	*	1870	*	*
			April	*	*	4.20	*	*	3760	*	*
			May	*	*	9.22	*	*	8000	*	*
			June	*	*	9.73	*	*	8720	*	*
			July	*	*	5.14	*	*	4450	*	*
August	1.56	0.14	1.70	1350	125	1480	92	1.4			
September	0.80	0.13	0.93	714	115	829	86	0.71			
12461000	WENATCHEE RIVER AT DRYDEN, WA.	1155	October	*	*	1.27	*	*	1270	*	*
			November	*	*	2.29	*	*	2370	*	*
			December	*	*	1.62	*	*	1630	*	*
			January	*	*	1.18	*	*	1180	*	*
			February	*	*	1.11	*	*	1220	*	*
			March	*	*	1.95	*	*	1960	*	*
			April	*	*	3.91	*	*	4050	*	*
			May	*	*	8.56	*	*	8580	*	*
			June	*	*	9.37	*	*	9700	*	*
			July	*	*	5.25	*	*	5260	*	*
August	*	*	1.59	*	*	1590	*	*			
September	*	*	0.95	*	*	984	*	*			

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12461400	MISSION CREEK ABOVE SAND CREEK NEAR CASHMERE, WA.	39.8	October	0.08	0.02	0.10	2.9	0.66	3.5	81	0.07
			November	0.12	0.06	0.18	4.2	2.1	6.3	67	0.11
			December	0.14	0.04	0.18	4.8	1.4	6.2	78	0.12
			January	0.17	0.12	0.29	5.8	4.1	9.9	59	0.15
			February	0.30	0.15	0.45	11	5.6	17	67	0.29
			March	*	*	0.58	*	*	20	*	*
			April	*	*	0.85	*	*	30	*	*
			May	*	*	1.07	*	*	37	*	*
			June	*	*	0.53	*	*	19	*	*
			July	0.19	0.01	0.20	6.6	0.45	7	94	0.17
			August	0.08	0.01	0.09	2.9	0.38	3.2	88	0.07
			September	0.06	0.01	0.07	2.1	0.29	2.4	88	0.05
12462000	MISSION CREEK AT CASHMERE, WA.	81.2	October	0.09	0.01	0.10	6.1	0.99	7	86	0.07
			November	0.11	0.04	0.14	7.8	2.5	10	75	0.1
			December	0.10	0.14	0.23	7	9.5	16	42	0.09
			January	0.15	0.02	0.17	10	1.6	12	87	0.13
			February	0.16	0.12	0.28	12	9.4	22	57	0.15
			March	*	*	0.55	*	*	39	*	*
			April	*	*	1.39	*	*	101	*	*
			May	*	*	1.19	*	*	83	*	*
			June	*	*	0.40	*	*	29	*	*
			July	0.12	0.01	0.14	8.6	0.92	9.5	90	0.11
			August	0.05	0.02	0.07	3.8	1.1	4.9	77	0.05
			September	0.05	0.01	0.07	3.7	1	4.7	78	0.05
12462500	WENATCHEE RIVER AT MONITOR, WA.	1301	October	0.71	0.27	0.97	798	299	1100	73	0.61
			November	1.08	0.70	1.79	1260	821	2080	61	0.97
			December	1.05	0.74	1.80	1190	840	2030	59	0.91
			January	1.01	0.57	1.57	1140	638	1770	64	0.87
			February	1.15	0.51	1.67	1430	636	2060	69	1.1
			March	*	*	2.16	*	*	2440	*	*
			April	*	*	3.40	*	*	3960	*	*
			May	*	*	7.23	*	*	8160	*	*
			June	*	*	7.72	*	*	9000	*	*
			July	*	*	3.96	*	*	4470	*	*
			August	1.19	0.16	1.34	1340	175	1510	88	1
			September	0.60	0.12	0.72	700	136	836	84	0.54
12462600	COLUMBIA RIVER BELOW ROCK ISLAND DAM, WA.	89400	October	*	*	1.03	*	*	79800	*	*
			November	*	*	1.09	*	*	87600	*	*
			December	*	*	1.28	*	*	99100	*	*
			January	*	*	1.37	*	*	107000	*	*
			February	*	*	1.30	*	*	110000	*	*
			March	*	*	1.41	*	*	109000	*	*
			April	*	*	1.43	*	*	114000	*	*
			May	*	*	2.09	*	*	162000	*	*
			June	*	*	2.60	*	*	209000	*	*
			July	*	*	2.02	*	*	157000	*	*
			August	*	*	1.41	*	*	110000	*	*
			September	*	*	1.00	*	*	79700	*	*

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12463000	DOUGLAS CREEK NEAR ALSTOWN, WA.	99.9	October	0.00	0.00	0.00	0.35	0	0.35	100	0.003
			November	0.01	0.00	0.01	0.54	0	0.54	100	0.005
			December	0.01	0.00	0.01	0.61	0.09	0.69	88	0.006
			January	0.01	0.04	0.05	0.78	3.6	4.3	18	0.008
			February	0.02	0.15	0.17	1.8	15	16	11	0.02
			March	0.06	0.12	0.18	5.4	11	16	34	0.05
			April	0.05	0.04	0.08	4	3.2	7.3	56	0.04
			May	0.01	0.00	0.02	1.2	0.17	1.4	88	0.012
			June	0.01	0.02	0.03	0.72	1.7	2.4	30	0.007
			July	0.01	0.00	0.01	0.43	0	0.43	100	0.004
			August	0.00	0.00	0.00	0.26	0	0.26	100	0.003
			September	0.00	0.00	0.00	0.27	0	0.27	100	0.003
12464500	COLUMBIA RIVER AT TRINIDAD, WA.	90500	October	*	*	0.81	*	*	63700	*	*
			November	*	*	0.76	*	*	61200	*	*
			December	*	*	0.73	*	*	57600	*	*
			January	*	*	0.73	*	*	56900	*	*
			February	*	*	0.66	*	*	56700	*	*
			March	*	*	0.78	*	*	61200	*	*
			April	*	*	1.23	*	*	99600	*	*
			May	*	*	2.87	*	*	225000	*	*
			June	*	*	4.08	*	*	331000	*	*
			July	*	*	2.98	*	*	234000	*	*
			August	*	*	1.61	*	*	126000	*	*
			September	*	*	1.00	*	*	81300	*	*
12464800	COAL CREEK AT MOHLER, WA.	64.7	October	0.00	0.00	0.00	0.06	0	0.06	100	0.001
			November	0.00	0.00	0.00	0.17	0.06	0.23	75	0.003
			December	0.02	0.03	0.05	1.1	1.4	2.5	44	0.02
			January	0.05	0.20	0.25	2.9	11	14	21	0.05
			February	0.08	0.11	0.19	4.7	6.8	12	41	0.07
			March	0.15	0.14	0.30	8.5	8.1	17	51	0.13
			April	0.07	0.01	0.08	4.1	0.58	4.6	88	0.06
			May	0.02	0.00	0.03	1.3	0.22	1.5	85	0.02
			June	0.01	0.00	0.01	0.41	0.06	0.46	88	0.006
			July	0.00	0.00	0.00	0.11	0	0.11	100	0.002
			August	0.00	0.00	0.00	0	0	0	0	0
			September	0.00	0.00	0.00	0.06	0	0.06	100	0.001
12465000	CRAB CREEK AT IRBY, WA.	1042	October	0.01	0.00	0.01	7.2	0.9	8.1	89	0.007
			November	0.01	0.00	0.01	7.5	0	7.5	100	0.007
			December	0.01	0.01	0.02	9.9	7.2	17	58	0.01
			January	0.04	0.08	0.12	37	73	110	34	0.04
			February	0.09	0.15	0.24	88	145	233	38	0.08
			March	0.15	0.08	0.23	136	70	207	66	0.13
			April	0.09	0.02	0.11	87	17	104	84	0.08
			May	0.05	0.01	0.05	42	6.3	49	87	0.04
			June	0.03	0.01	0.04	32	4.7	36	87	0.03
			July	0.02	0.00	0.02	20	0.9	21	96	0.02
			August	0.01	0.00	0.02	13	0.9	14	93	0.012
			September	0.01	0.00	0.01	8.4	0.93	9.3	90	0.008

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12465400	WILSON CREEK BELOW CORBETT DRAW NEAR ALMIRA, WA.	327	October	0.00	0.00	0.00	1.1	0	1.1	100	0.003
			November	0.01	0.00	0.01	1.8	0.29	2.1	86	0.005
			December	0.01	0.00	0.01	2.6	0.57	3.1	82	0.008
			January	0.02	0.05	0.07	5.1	14	19	27	0.02
			February	0.03	0.09	0.12	10	28	39	27	0.03
			March	*	*	0.25	*	*	72	*	*
			April	*	*	0.10	*	*	29	*	*
			May	*	*	0.03	*	*	9.6	*	*
			June	*	*	0.01	*	*	4.1	*	*
			July	0.02	0.03	0.04	4.5	7.9	12	36	0.014
			August	0.01	0.00	0.01	1.4	0.57	2	71	0.004
			September	0.00	0.00	0.00	0.59	0.29	0.88	67	0.002
12467000	CRAB CREEK NEAR MOSES LAKE, WA.	2228	October	0.02	0.00	0.03	44	5.8	50	88	0.02
			November	0.02	0.00	0.02	30	2	32	94	0.013
			December	0.01	0.00	0.01	17	1.9	19	90	0.008
			January	0.01	0.02	0.03	19	35	54	36	0.009
			February	0.02	0.04	0.06	36	83	119	30	0.02
			March	*	*	0.09	*	*	170	*	*
			April	*	*	0.04	*	*	82	*	*
			May	*	*	0.02	*	*	46	*	*
			June	*	*	0.02	*	*	46	*	*
			July	0.03	0.00	0.03	48	3.9	52	93	0.02
			August	0.03	0.00	0.03	56	1.9	58	97	0.03
			September	0.03	0.00	0.03	58	2	60	97	0.03
12468500	PARK CREEK BELOW PARK LAKE NEAR COULEE CITY, WA.	317	October	0.03	0.00	0.03	8.5	0.82	9.3	91	0.03
			November	0.03	0.01	0.04	9.7	1.4	11	87	0.03
			December	0.04	0.01	0.05	11	1.6	13	87	0.03
			January	0.05	0.01	0.05	12	1.6	14	88	0.04
			February	0.05	0.00	0.05	14	0.91	15	94	0.04
			March	0.05	0.01	0.05	13	1.4	14	90	0.04
			April	0.04	0.01	0.04	9.9	1.7	12	85	0.03
			May	0.04	0.01	0.04	9.9	1.4	11	88	0.03
			June	0.03	0.01	0.03	7.1	1.4	8.5	83	0.02
			July	0.02	0.00	0.02	4.1	1.1	5.2	79	0.013
			August	0.02	0.00	0.02	4.4	1.1	5.5	80	0.014
			September	0.02	0.00	0.02	5.7	0.85	6.5	87	0.02
12470500	ROCKY FORD CREEK NEAR EPHRATA, WA.	458	October	0.20	0.00	0.21	81	0.79	81	99	0.18
			November	0.18	0.00	0.19	75	0.82	76	99	0.16
			December	0.17	0.00	0.17	68	0.79	69	99	0.15
			January	0.15	0.00	0.16	61	0.4	62	99	0.13
			February	0.13	0.00	0.13	58	0.44	58	99	0.13
			March	0.15	0.00	0.16	60	1.2	62	98	0.13
			April	0.17	0.00	0.17	68	1.6	69	98	0.15
			May	0.19	0.00	0.19	74	0.79	75	99	0.16
			June	0.19	0.00	0.19	78	0.82	79	99	0.17
			July	0.21	0.00	0.21	82	0.79	83	99	0.18
			August	0.21	0.00	0.21	84	0.79	85	99	0.18
			September	0.20	0.00	0.21	83	0.82	84	99	0.18



## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi2)	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft3/sec)	Mean Surface Runoff (ft3/sec)	Mean Streamflow (ft3/sec)	Mean BF as % of Streamflow	Mean Baseflow (ft3/sec/mi2)
12471500	CRAB CREEK NEAR WARDEN, WA.	4470	October	*	*	0.01	*	*	19	*	*
			November	*	*	0.01	*	*	20	*	*
			December	*	*	0.01	*	*	27	*	*
			January	*	*	0.01	*	*	23	*	*
			February	*	*	0.01	*	*	26	*	*
			March	*	*	0.01	*	*	27	*	*
			April	*	*	0.01	*	*	28	*	*
			May	*	*	0.01	*	*	23	*	*
			June	*	*	0.01	*	*	20	*	*
			July	*	*	0.01	*	*	19	*	*
August	*	*	0.01	*	*	19	*	*			
September	*	*	0.01	*	*	20	*	*			
12472500	CRAB CREEK NEAR SMYRNA, WA.	4500	October	*	*	0.01	*	*	27	*	*
			November	*	*	0.01	*	*	28	*	*
			December	*	*	0.01	*	*	27	*	*
			January	*	*	0.01	*	*	27	*	*
			February	*	*	0.02	*	*	99	*	*
			March	*	*	0.03	*	*	109	*	*
			April	*	*	0.02	*	*	93	*	*
			May	*	*	0.01	*	*	39	*	*
			June	*	*	0.01	*	*	24	*	*
			July	*	*	0.00	*	*	16	*	*
August	*	*	0.01	*	*	20	*	*			
September	*	*	0.01	*	*	24	*	*			
12472600	CRAB CREEK NEAR BEVERLY, WA.	4840	October	*	*	0.06	*	*	256	*	*
			November	*	*	0.05	*	*	200	*	*
			December	*	*	0.04	*	*	185	*	*
			January	*	*	0.04	*	*	181	*	*
			February	*	*	0.04	*	*	184	*	*
			March	*	*	0.04	*	*	172	*	*
			April	*	*	0.04	*	*	191	*	*
			May	*	*	0.05	*	*	189	*	*
			June	*	*	0.04	*	*	178	*	*
			July	*	*	0.04	*	*	181	*	*
August	*	*	0.05	*	*	210	*	*			
September	*	*	0.06	*	*	247	*	*			
12472800	COLUMBIA RIVER BELOW PRIEST RAPIDS DAM, WA.	96000	October	*	*	0.86	*	*	71900	*	*
			November	*	*	0.84	*	*	72500	*	*
			December	*	*	0.91	*	*	75900	*	*
			January	*	*	0.94	*	*	78200	*	*
			February	*	*	0.87	*	*	79100	*	*
			March	*	*	0.97	*	*	81100	*	*
			April	*	*	1.20	*	*	104000	*	*
			May	*	*	2.35	*	*	196000	*	*
			June	*	*	3.18	*	*	273000	*	*
			July	*	*	2.42	*	*	202000	*	*
August	*	*	1.45	*	*	121000	*	*			
September	*	*	0.96	*	*	82200	*	*			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi2)	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft3/sec)	Mean Surface Runoff (ft3/sec)	Mean Streamflow (ft3/sec)	Mean BF as % of Streamflow	Mean Baseflow (ft3/sec/mi2)
12474500	YAKIMA RIVER NEAR MARTIN, WA.	54.7	October	*	*	3.88	*	*	184	*	*
			November	*	*	2.80	*	*	137	*	*
			December	*	*	3.80	*	*	180	*	*
			January	*	*	3.51	*	*	166	*	*
			February	*	*	2.45	*	*	127	*	*
			March	*	*	3.07	*	*	146	*	*
			April	*	*	4.63	*	*	227	*	*
			May	*	*	8.92	*	*	423	*	*
			June	*	*	11.69	*	*	573	*	*
			July	*	*	13.58	*	*	644	*	*
12476000	KACHESS RIVER NEAR EASTON, WA.	63.6	October	*	*	2.93	*	*	162	*	*
			November	*	*	1.41	*	*	80	*	*
			December	*	*	2.41	*	*	133	*	*
			January	*	*	2.18	*	*	120	*	*
			February	*	*	1.72	*	*	104	*	*
			March	*	*	2.09	*	*	115	*	*
			April	*	*	3.32	*	*	189	*	*
			May	*	*	5.86	*	*	323	*	*
			June	*	*	7.93	*	*	452	*	*
			July	*	*	11.95	*	*	659	*	*
12477000	YAKIMA RIVER AT EASTON, WA.	188	October	1.46	0.83	2.29	238	135	373	64	1.3
			November	1.87	1.17	3.03	315	197	511	62	1.7
			December	2.70	0.89	3.59	441	145	585	75	2.3
			January	2.33	0.60	2.92	380	97	477	80	2
			February	1.87	0.44	2.31	335	78	413	81	1.8
			March	*	*	3.11	*	*	506	*	*
			April	*	*	4.90	*	*	825	*	*
			May	*	*	6.31	*	*	1030	*	*
			June	*	*	5.21	*	*	877	*	*
			July	*	*	3.32	*	*	542	*	*
12479000	CLE ELUM RIVER NEAR ROSYLN, WA.	203	October	*	*	2.09	*	*	369	*	*
			November	*	*	1.48	*	*	268	*	*
			December	*	*	2.40	*	*	422	*	*
			January	*	*	2.14	*	*	377	*	*
			February	*	*	1.62	*	*	313	*	*
			March	*	*	2.15	*	*	378	*	*
			April	*	*	4.68	*	*	851	*	*
			May	*	*	10.18	*	*	1790	*	*
			June	*	*	11.70	*	*	2130	*	*
			July	*	*	10.02	*	*	1760	*	*
August	*	*	8.53	*	*	1500	*	*			
September	*	*	5.36	*	*	974	*	*			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12479500	YAKIMA RIVER AT CLE ELUM, WA.	495	October	*	*	1.73	*	*	744	*	*
			November	*	*	1.73	*	*	768	*	*
			December	*	*	2.84	*	*	1220	*	*
			January	*	*	2.56	*	*	1100	*	*
			February	*	*	2.01	*	*	948	*	*
			March	*	*	2.58	*	*	1110	*	*
			April	*	*	4.43	*	*	1970	*	*
			May	*	*	7.29	*	*	3130	*	*
			June	*	*	7.34	*	*	3260	*	*
			July	*	*	6.33	*	*	2720	*	*
August	*	*	5.90	*	*	2530	*	*			
September	*	*	3.60	*	*	1600	*	*			
12480000	TEANAWAY RIVER BELOW FORKS NEAR CLE ELUM, WA.	172	October	0.23	0.11	0.33	34	16	50	68	0.2
			November	0.68	0.65	1.33	105	101	205	51	0.61
			December	1.12	0.92	2.04	166	137	304	55	0.97
			January	1.34	1.11	2.44	199	165	364	55	1.2
			February	1.40	1.13	2.53	229	185	414	55	1.3
			March	*	*	3.34	*	*	498	*	*
			April	*	*	5.09	*	*	785	*	*
			May	*	*	5.90	*	*	880	*	*
			June	*	*	2.92	*	*	450	*	*
			July	0.65	0.11	0.76	96	17	113	85	0.56
August	0.19	0.03	0.21	28	3.7	31	88	0.16			
September	0.13	0.03	0.16	20	4.9	25	80	0.11			
12480500	TEANAWAY RIVER NEAR CLE ELUM, WA.	200	October	0.31	0.18	0.49	53	31	84	63	0.27
			November	0.81	0.81	1.62	145	146	291	50	0.73
			December	0.85	0.62	1.47	147	107	254	58	0.74
			January	0.68	0.24	0.91	117	41	158	74	0.59
			February	0.75	0.50	1.25	143	95	237	60	0.71
			March	*	*	3.38	*	*	587	*	*
			April	*	*	5.89	*	*	1060	*	*
			May	*	*	6.27	*	*	1090	*	*
			June	*	*	2.96	*	*	530	*	*
			July	0.46	0.11	0.57	80	19	99	81	0.4
August	0.08	0.02	0.09	13	3.1	16	81	0.07			
September	0.08	0.02	0.10	15	3.2	18	82	0.08			
12483500	MANASTASH CREEK NEAR ELLENSBURG, WA.	74.5	October	0.19	0.01	0.20	12	0.71	13	95	0.16
			November	0.23	0.03	0.26	16	1.9	17	89	0.21
			December	0.20	0.03	0.23	13	1.9	15	88	0.18
			January	0.33	0.06	0.38	21	3.6	25	86	0.28
			February	0.27	0.06	0.33	19	4.1	23	82	0.26
			March	*	*	1.58	*	*	102	*	*
			April	*	*	2.24	*	*	150	*	*
			May	*	*	2.97	*	*	192	*	*
			June	*	*	1.75	*	*	117	*	*
			July	0.52	0.03	0.55	33	2	35	94	0.45
August	0.23	0.02	0.25	15	1.3	16	92	0.2			
September	0.18	0.02	0.19	12	1.1	13	92	0.16			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi2)	Water Year Month	Mean	Mean	Mean	Mean	Mean	Mean BF as % of Streamflow	Mean	
				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft3/sec)	Surface Runoff (ft3/sec)		Streamflow (ft3/sec)	Baseflow (ft3/sec/mi2)
12483800	NANEUM CREEK NEAR ELLENSBURG, WA.	69.5	October	0.28	0.01	0.29	17	0.84	18	95	0.24
			November	0.29	0.05	0.35	18	3.4	22	84	0.26
			December	0.36	0.11	0.47	22	6.6	28	77	0.31
			January	0.34	0.09	0.43	21	5.4	26	79	0.3
			February	0.40	0.08	0.49	27	5.5	32	83	0.38
			March	*	*	0.65	*	*	39	*	*
			April	*	*	1.39	*	*	86	*	*
			May	*	*	3.27	*	*	197	*	*
			June	*	*	2.34	*	*	146	*	*
			July	*	*	0.79	*	*	48	*	*
August	0.40	0.02	0.42	24	0.9	25	96	0.35			
September	0.29	0.01	0.30	18	0.62	19	97	0.26			
12484500	YAKIMA RIVER AT UMTANUM, WA.	1594	October	*	*	0.79	*	*	1090	*	*
			November	*	*	0.87	*	*	1240	*	*
			December	*	*	1.25	*	*	1730	*	*
			January	*	*	1.17	*	*	1620	*	*
			February	*	*	1.20	*	*	1830	*	*
			March	*	*	1.60	*	*	2220	*	*
			April	*	*	2.38	*	*	3400	*	*
			May	*	*	3.13	*	*	4320	*	*
			June	*	*	2.74	*	*	3910	*	*
			July	*	*	2.18	*	*	3010	*	*
August	*	*	2.11	*	*	2910	*	*			
September	*	*	1.33	*	*	1890	*	*			
12488000	BUMPING RIVER NEAR NILE, WA.	70.7	October	*	*	1.90	*	*	117	*	*
			November	*	*	2.57	*	*	163	*	*
			December	*	*	3.82	*	*	234	*	*
			January	*	*	3.40	*	*	208	*	*
			February	*	*	2.58	*	*	174	*	*
			March	*	*	2.41	*	*	148	*	*
			April	*	*	3.33	*	*	211	*	*
			May	*	*	8.57	*	*	525	*	*
			June	*	*	11.97	*	*	759	*	*
			July	*	*	7.50	*	*	460	*	*
August	*	*	5.22	*	*	320	*	*			
September	*	*	3.46	*	*	219	*	*			
12488500	AMERICAN RIVER NEAR NILE, WA.	78.9	October	0.83	0.22	1.04	56	15	71	79	0.72
			November	1.22	0.60	1.82	86	43	129	67	1.1
			December	1.56	0.90	2.47	107	62	169	63	1.4
			January	1.41	0.58	1.98	96	40	136	71	1.2
			February	1.44	0.67	2.11	108	50	159	68	1.4
			March	*	*	2.32	*	*	158	*	*
			April	*	*	4.23	*	*	299	*	*
			May	*	*	9.34	*	*	639	*	*
			June	*	*	8.90	*	*	629	*	*
			July	*	*	4.06	*	*	278	*	*
August	1.27	0.05	1.32	87	3.3	90	96	1.1			
September	0.75	0.07	0.82	53	5	58	91	0.67			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12489500	NACHES RIVER AT OAK FLAT NEAR NILE, WA.	641	October	*	*	0.64	*	*	354	*	*
			November	*	*	2.05	*	*	1180	*	*
			December	*	*	1.25	*	*	696	*	*
			January	*	*	0.88	*	*	491	*	*
			February	*	*	1.02	*	*	620	*	*
			March	*	*	2.05	*	*	1140	*	*
			April	*	*	3.58	*	*	2060	*	*
			May	*	*	5.80	*	*	3220	*	*
			June	*	*	5.60	*	*	3220	*	*
			July	*	*	2.87	*	*	1600	*	*
August	*	*	1.06	*	*	591	*	*			
September	*	*	0.71	*	*	410	*	*			
12491500	TIETON RIVER AT TIETON DAM NEAR NACHES, WA.	187	October	*	*	1.44	*	*	233	*	*
			November	*	*	1.12	*	*	187	*	*
			December	*	*	1.54	*	*	250	*	*
			January	*	*	1.52	*	*	247	*	*
			February	*	*	1.09	*	*	194	*	*
			March	*	*	1.11	*	*	180	*	*
			April	*	*	2.12	*	*	355	*	*
			May	*	*	4.07	*	*	660	*	*
			June	*	*	5.58	*	*	935	*	*
			July	*	*	6.26	*	*	1020	*	*
August	*	*	6.10	*	*	989	*	*			
September	*	*	4.85	*	*	813	*	*			
12492500	TIETON RIVER AT CANAL HEADWORKS NEAR NACHES, WA.	239	October	*	*	1.16	*	*	241	*	*
			November	*	*	0.94	*	*	202	*	*
			December	*	*	1.45	*	*	300	*	*
			January	*	*	1.42	*	*	294	*	*
			February	*	*	1.10	*	*	251	*	*
			March	*	*	1.32	*	*	273	*	*
			April	*	*	2.10	*	*	450	*	*
			May	*	*	2.94	*	*	609	*	*
			June	*	*	3.61	*	*	774	*	*
			July	*	*	3.48	*	*	722	*	*
August	*	*	3.06	*	*	634	*	*			
September	*	*	2.39	*	*	511	*	*			
12494000	NACHES RIVER BELOW TIETON RIVER NEAR NACHES, WA.	941	October	*	*	0.37	*	*	305	*	*
			November	*	*	0.66	*	*	560	*	*
			December	*	*	1.17	*	*	954	*	*
			January	*	*	1.01	*	*	828	*	*
			February	*	*	0.82	*	*	735	*	*
			March	*	*	1.03	*	*	838	*	*
			April	*	*	2.18	*	*	1840	*	*
			May	*	*	4.05	*	*	3300	*	*
			June	*	*	3.73	*	*	3140	*	*
			July	*	*	1.82	*	*	1490	*	*
August	*	*	0.96	*	*	781	*	*			
September	*	*	0.60	*	*	504	*	*			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12499000	NACHES RIVER NEAR NORTH YAKIMA, WA.	1106	October	*	*	0.61	*	*	589	*	*
			November	*	*	1.62	*	*	1610	*	*
			December	*	*	1.40	*	*	1340	*	*
			January	*	*	1.08	*	*	1030	*	*
			February	*	*	0.82	*	*	867	*	*
			March	*	*	1.60	*	*	1540	*	*
			April	*	*	2.93	*	*	2900	*	*
			May	*	*	4.19	*	*	4020	*	*
			June	*	*	3.49	*	*	3460	*	*
			July	*	*	1.55	*	*	1480	*	*
August	*	*	0.46	*	*	443	*	*			
September	*	*	0.52	*	*	513	*	*			
12500450	YAKIMA RIVER ABOVE AHTANUM CREEK AT UNION GAP, WA.	3479	October	*	*	0.56	*	*	1690	*	*
			November	*	*	0.61	*	*	1920	*	*
			December	*	*	0.96	*	*	2880	*	*
			January	*	*	0.98	*	*	2960	*	*
			February	*	*	1.13	*	*	3730	*	*
			March	*	*	1.34	*	*	4050	*	*
			April	*	*	1.53	*	*	4770	*	*
			May	*	*	2.06	*	*	6230	*	*
			June	*	*	1.84	*	*	5750	*	*
			July	*	*	1.24	*	*	3750	*	*
August	*	*	1.11	*	*	3350	*	*			
September	*	*	0.87	*	*	2700	*	*			
12500500	NORTH FORK AHTANUM CREEK NEAR TAMPICO, WA.	68.9	October	0.32	0.03	0.35	19	1.6	21	93	0.28
			November	0.35	0.09	0.44	21	5.7	27	79	0.31
			December	0.40	0.23	0.63	24	14	38	64	0.35
			January	0.44	0.21	0.65	26	12	39	68	0.38
			February	0.48	0.20	0.67	31	13	44	71	0.45
			March	*	*	1.00	*	*	60	*	*
			April	*	*	1.94	*	*	120	*	*
			May	*	*	3.34	*	*	200	*	*
			June	*	*	2.79	*	*	172	*	*
			July	*	*	1.03	*	*	62	*	*
August	0.43	0.02	0.45	26	0.96	27	96	0.37			
September	0.31	0.01	0.33	19	0.86	20	96	0.28			
12501000	SO FK AHTANUM CREEK AT CONRAD RNCH N TAMPICO, WA.	24.8	October	0.32	0.01	0.34	6.9	0.3	7.2	96	0.28
			November	0.35	0.03	0.39	7.9	0.76	8.6	91	0.32
			December	0.46	0.16	0.62	9.9	3.4	13	74	0.4
			January	0.46	0.21	0.67	9.9	4.5	14	69	0.4
			February	0.54	0.17	0.71	13	4	17	76	0.51
			March	*	*	1.02	*	*	22	*	*
			April	*	*	1.52	*	*	34	*	*
			May	*	*	2.21	*	*	48	*	*
			June	*	*	1.96	*	*	43	*	*
			July	0.75	0.02	0.77	16	0.39	17	98	0.65
August	0.42	0.01	0.43	9.1	0.17	9.2	98	0.37			
September	0.32	0.01	0.33	7.1	0.16	7.3	98	0.29			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12501500	SOUTH FORK AHTANUM CREEK NEAR TAMPICO, WA.	28.5	October	0.27	0.00	0.27	6.6	0.07	6.7	99	0.23
			November	0.42	0.11	0.53	11	2.8	14	80	0.38
			December	0.53	0.03	0.56	13	0.77	14	95	0.46
			January	0.41	0.15	0.56	10	3.7	14	73	0.35
			February	0.45	0.05	0.49	12	1.2	13	91	0.43
			March	*	*	1.95	*	*	48	*	*
			April	*	*	1.85	*	*	47	*	*
			May	*	*	2.57	*	*	63	*	*
			June	*	*	1.79	*	*	46	*	*
			July	0.43	0.02	0.45	11	0.44	11	96	0.38
			August	0.22	0.02	0.24	5.4	0.44	5.8	92	0.19
			September	0.21	0.01	0.22	5.3	0.26	5.6	95	0.19
12502000	AHTANUM CREEK AT THE NARROWS NEAR TAMPICO, WA.	119	October	0.19	0.01	0.21	20	1.3	21	94	0.17
			November	0.28	0.11	0.40	30	12	42	72	0.25
			December	0.36	0.10	0.45	37	9.8	47	79	0.31
			January	0.35	0.15	0.50	36	15	51	70	0.3
			February	0.49	0.22	0.71	55	25	80	69	0.46
			March	*	*	1.05	*	*	109	*	*
			April	*	*	1.29	*	*	138	*	*
			May	*	*	2.00	*	*	206	*	*
			June	*	*	1.86	*	*	198	*	*
			July	0.53	0.04	0.57	55	3.8	59	93	0.46
			August	0.26	0.01	0.27	27	1.4	28	95	0.22
			September	0.20	0.01	0.21	21	1.1	22	95	0.18
12502500	AHTANUM CREEK AT UNION GAP, WA.	173	October	0.12	0.01	0.13	18	1.7	20	92	0.11
			November	0.17	0.02	0.19	26	3.3	29	89	0.15
			December	0.24	0.10	0.34	36	15	51	71	0.21
			January	0.33	0.19	0.52	49	28	77	64	0.29
			February	0.52	0.24	0.76	85	40	124	68	0.49
			March	*	*	0.91	*	*	136	*	*
			April	*	*	0.88	*	*	137	*	*
			May	*	*	1.16	*	*	173	*	*
			June	*	*	0.95	*	*	148	*	*
			July	0.19	0.04	0.22	28	5.3	34	84	0.16
			August	0.09	0.02	0.10	13	2.3	15	85	0.08
			September	0.11	0.01	0.12	17	2.2	19	89	0.1
12503000	YAKIMA RIVER AT UNION GAP, NEAR YAKIMA, WA.	3652	October	0.43	0.14	0.58	1370	456	1820	75	0.37
			November	0.58	0.38	0.96	1900	1230	3130	61	0.52
			December	0.70	0.36	1.05	2210	1130	3330	66	0.6
			January	0.67	0.47	1.14	2120	1490	3610	59	0.58
			February	0.71	0.26	0.97	2470	911	3380	73	0.67
			March	*	*	1.42	*	*	4500	*	*
			April	*	*	2.11	*	*	6900	*	*
			May	*	*	2.97	*	*	9410	*	*
			June	*	*	2.54	*	*	8310	*	*
			July	*	*	1.19	*	*	3750	*	*
			August	0.56	0.06	0.62	1760	203	1970	90	0.48
			September	0.45	0.05	0.50	1470	167	1640	90	0.4

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12505000	YAKIMA RIVER NEAR PARKER, WA.	3660	October	*	*	0.29	*	*	921	*	*
			November	*	*	0.65	*	*	2150	*	*
			December	*	*	1.02	*	*	3240	*	*
			January	*	*	0.96	*	*	3040	*	*
			February	*	*	0.86	*	*	2990	*	*
			March	*	*	1.05	*	*	3330	*	*
			April	*	*	1.15	*	*	3760	*	*
			May	*	*	1.58	*	*	5000	*	*
			June	*	*	1.32	*	*	4340	*	*
			July	*	*	0.35	*	*	1100	*	*
August	*	*	0.12	*	*	365	*	*			
September	*	*	0.11	*	*	361	*	*			
12506000	TOPPENISH CREEK NEAR FORT SIMCOE, WA.	122	October	0.17	0.01	0.18	18	1.1	19	94	0.15
			November	0.27	0.10	0.37	30	11	41	73	0.24
			December	0.43	0.22	0.64	45	23	68	66	0.37
			January	0.60	0.46	1.05	63	48	111	57	0.52
			February	0.67	0.23	0.90	77	27	104	74	0.63
			March	*	*	2.04	*	*	216	*	*
			April	*	*	2.71	*	*	296	*	*
			May	*	*	2.07	*	*	219	*	*
			June	*	*	0.54	*	*	59	*	*
			July	0.20	0.01	0.21	21	1.4	22	94	0.17
August	0.12	0.01	0.13	13	0.63	13	95	0.1			
September	0.12	0.01	0.13	13	0.98	14	93	0.11			
12506500	SIMCOE CREEK BELOW SPRING CREEK NEAR FORT SIMCOE, WA.	81.5	October	0.01	0.01	0.02	0.99	0.35	1.3	74	0.012
			November	0.04	0.01	0.05	3.1	0.88	3.9	78	0.04
			December	0.14	0.09	0.23	9.8	6.6	16	60	0.12
			January	0.33	0.31	0.64	23	22	45	52	0.29
			February	0.37	0.29	0.66	29	23	51	56	0.35
			March	*	*	1.18	*	*	84	*	*
			April	*	*	1.02	*	*	75	*	*
			May	*	*	0.74	*	*	52	*	*
			June	*	*	0.20	*	*	14	*	*
			July	0.05	0.01	0.06	3.7	0.35	4.1	91	0.05
August	0.02	0.00	0.02	1.5	0.07	1.6	95	0.02			
September	0.01	0.00	0.01	0.73	0.07	0.8	91	0.009			
12508990	YAKIMA RIVER AT MABTON, WA.	5359	October	*	*	0.41	*	*	1890	*	*
			November	*	*	0.52	*	*	2500	*	*
			December	*	*	0.80	*	*	3730	*	*
			January	*	*	0.88	*	*	4090	*	*
			February	*	*	0.97	*	*	4960	*	*
			March	*	*	1.12	*	*	5190	*	*
			April	*	*	1.01	*	*	4860	*	*
			May	*	*	1.07	*	*	4950	*	*
			June	*	*	0.87	*	*	4160	*	*
			July	*	*	0.40	*	*	1870	*	*
August	*	*	0.33	*	*	1520	*	*			
September	*	*	0.36	*	*	1730	*	*			



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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean	Mean	Mean	Mean	Mean	Mean BF	Mean	
				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
12510500	YAKIMA RIVER AT KIONA, WA.	5615	October	*	*	0.44	*	*	2130	*	*
			November	*	*	0.62	*	*	3100	*	*
			December	*	*	0.82	*	*	3970	*	*
			January	*	*	0.79	*	*	3850	*	*
			February	*	*	0.82	*	*	4380	*	*
			March	*	*	0.98	*	*	4780	*	*
			April	*	*	1.01	*	*	5070	*	*
			May	*	*	1.19	*	*	5810	*	*
			June	*	*	1.05	*	*	5270	*	*
			July	*	*	0.42	*	*	2030	*	*
			August	*	*	0.30	*	*	1450	*	*
			September	*	*	0.34	*	*	1710	*	*
13334300	SNAKE RIVER NEAR ANATONE, WA.	92960	October	*	*	0.27	*	*	21400	*	*
			November	*	*	0.27	*	*	22700	*	*
			December	*	*	0.32	*	*	25600	*	*
			January	*	*	0.37	*	*	30000	*	*
			February	*	*	0.39	*	*	34100	*	*
			March	*	*	0.50	*	*	40000	*	*
			April	*	*	0.59	*	*	49200	*	*
			May	*	*	0.83	*	*	66800	*	*
			June	*	*	0.87	*	*	72800	*	*
			July	*	*	0.38	*	*	31000	*	*
			August	*	*	0.23	*	*	18100	*	*
			September	*	*	0.23	*	*	19500	*	*
13334500	ASOTIN CREEK NEAR ASOTIN, WA.	156	October	0.25	0.01	0.26	34	1.8	35	95	0.22
			November	0.27	0.03	0.30	38	4.1	42	90	0.24
			December	0.32	0.10	0.42	44	14	57	76	0.28
			January	0.32	0.07	0.39	43	9.6	53	82	0.28
			February	0.33	0.11	0.44	49	16	66	75	0.32
			March	*	*	0.58	*	*	78	*	*
			April	*	*	0.94	*	*	131	*	*
			May	*	*	1.15	*	*	156	*	*
			June	*	*	0.69	*	*	97	*	*
			July	*	*	0.32	*	*	44	*	*
			August	0.23	0.01	0.24	31	1.1	32	97	0.2
			September	0.22	0.01	0.23	31	1.4	32	96	0.2
13334700	ASOTIN CREEK BELOW KEARNEY GULCH NEAR ASOTIN, WA.	170	October	0.24	0.01	0.25	35	1.6	37	96	0.21
			November	0.27	0.03	0.29	41	4.1	45	91	0.24
			December	0.32	0.12	0.44	46	18	65	72	0.27
			January	0.35	0.20	0.55	51	30	81	63	0.3
			February	0.39	0.16	0.55	63	26	89	71	0.37
			March	*	*	0.61	*	*	90	*	*
			April	*	*	0.75	*	*	114	*	*
			May	*	*	0.98	*	*	145	*	*
			June	*	*	0.67	*	*	102	*	*
			July	0.31	0.01	0.33	46	2.1	48	96	0.27
			August	0.24	0.01	0.25	35	1.9	37	95	0.2
			September	0.22	0.01	0.24	34	1.8	36	95	0.2

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Station No.	Station Name	Drainage Area (mi2)	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft3/sec)	Mean Surface Runoff (ft3/sec)	Mean Streamflow (ft3/sec)	Mean BF as % of Streamflow	Mean Baseflow (ft3/sec/mi2)
13335050	ASOTIN CREEK AT ASOTIN, WA.	323	October	0.12	0.01	0.12	32	1.4	34	96	0.1
			November	0.13	0.02	0.15	38	6.7	45	85	0.12
			December	0.18	0.14	0.32	52	38	89	58	0.16
			January	0.20	0.22	0.41	55	61	116	47	0.17
			February	0.27	0.25	0.52	82	77	158	52	0.25
			March	*	*	0.52	*	*	146	*	*
			April	*	*	0.66	*	*	192	*	*
			May	*	*	0.74	*	*	206	*	*
			June	*	*	0.33	*	*	96	*	*
			July	0.15	0.03	0.18	43	7.6	51	85	0.13
August	0.11	0.01	0.12	31	3.4	34	90	0.1			
September	0.11	0.01	0.11	31	2	33	94	0.1			
13343500	SNAKE RIVER NEAR CLARKSTON, WA.	103200	October	*	*	0.27	*	*	24500	*	*
			November	*	*	0.30	*	*	27600	*	*
			December	*	*	0.35	*	*	31400	*	*
			January	*	*	0.36	*	*	32500	*	*
			February	*	*	0.38	*	*	37400	*	*
			March	*	*	0.54	*	*	48500	*	*
			April	*	*	0.89	*	*	82600	*	*
			May	*	*	1.38	*	*	124000	*	*
			June	*	*	1.24	*	*	115000	*	*
			July	*	*	0.45	*	*	40600	*	*
August	*	*	0.23	*	*	20100	*	*			
September	*	*	0.22	*	*	20200	*	*			
13343800	MEADOW CREEK NEAR CENTRAL FERRY, WA.	66.2	October	0.02	0.00	0.03	1.4	0.11	1.5	92	0.02
			November	0.03	0.00	0.03	1.7	0.18	1.9	91	0.03
			December	0.04	0.05	0.10	2.4	3	5.5	44	0.04
			January	0.05	0.11	0.16	2.6	6.3	8.9	30	0.04
			February	0.06	0.03	0.09	3.5	1.9	5.4	65	0.05
			March	0.07	0.02	0.08	3.8	0.98	4.8	80	0.06
			April	0.05	0.01	0.06	3.2	0.3	3.5	92	0.05
			May	0.04	0.01	0.04	2.1	0.29	2.4	88	0.03
			June	0.02	0.01	0.03	1.1	0.47	1.5	69	0.02
			July	0.01	0.01	0.02	0.8	0.4	1.2	67	0.012
August	0.01	0.00	0.02	0.8	0.23	1	78	0.012			
September	0.02	0.01	0.03	1.2	0.71	1.9	63	0.02			
13344000	TUCANNON RIVER NEAR POMEROY, WA.	160	October	0.49	0.02	0.51	68	2.8	71	96	0.43
			November	0.62	0.16	0.78	89	23	112	80	0.56
			December	0.67	0.12	0.79	93	16	110	85	0.58
			January	0.76	0.20	0.96	106	27	133	79	0.66
			February	0.77	0.25	1.02	117	38	155	76	0.73
			March	*	*	1.24	*	*	172	*	*
			April	*	*	1.48	*	*	212	*	*
			May	*	*	1.69	*	*	234	*	*
			June	*	*	0.90	*	*	129	*	*
			July	0.46	0.02	0.48	63	2.6	66	96	0.4
August	0.38	0.01	0.38	52	1.2	53	98	0.33			
September	0.41	0.02	0.43	59	3.3	62	95	0.37			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
13344500	TUCANNON RIVER NEAR STARBUCK, WA.	431	October	0.21	0.01	0.22	78	5.2	83	94	0.18
			November	0.25	0.03	0.28	96	13	109	88	0.22
			December	0.31	0.14	0.45	116	51	167	70	0.27
			January	0.35	0.23	0.59	131	87	219	60	0.3
			February	0.41	0.24	0.65	170	98	268	63	0.39
			March	0.54	0.13	0.67	201	47	249	81	0.47
			April	0.57	0.15	0.71	219	56	275	80	0.51
			May	0.64	0.16	0.80	240	60	300	80	0.56
			June	0.44	0.08	0.52	172	31	202	85	0.4
			July	0.21	0.02	0.23	79	5.6	84	93	0.18
			August	0.15	0.01	0.16	56	4.9	61	92	0.13
			September	0.17	0.02	0.18	65	6.2	71	91	0.15
13345300	PALOUSE RIVER AT PALOUSE, WA.	360	October	0.04	0.01	0.05	13	3.4	17	79	0.04
			November	0.07	0.04	0.11	22	12	35	64	0.06
			December	0.36	0.53	0.90	113	167	280	40	0.31
			January	0.51	1.02	1.53	160	317	477	34	0.44
			February	0.59	0.62	1.22	203	214	417	49	0.56
			March	*	*	1.99	*	*	621	*	*
			April	*	*	2.36	*	*	763	*	*
			May	*	*	1.31	*	*	409	*	*
			June	*	*	0.33	*	*	106	*	*
			July	0.06	0.02	0.08	19	4.7	23	80	0.05
			August	0.03	0.01	0.04	7.8	4.4	12	64	0.02
			September	0.03	0.01	0.04	8.7	2.9	12	75	0.02
13346000	PALOUSE RIVER NEAR COLFAX, WA.	491	October	0.04	0.02	0.06	16	10	26	61	0.03
			November	0.08	0.09	0.17	37	40	77	48	0.08
			December	0.17	0.16	0.33	73	66	139	52	0.15
			January	0.37	0.44	0.81	158	186	345	46	0.32
			February	0.74	0.71	1.45	343	333	677	51	0.7
			March	0.93	0.79	1.72	397	335	732	54	0.81
			April	1.36	0.55	1.91	597	242	839	71	1.2
			May	0.63	0.33	0.96	267	140	407	66	0.54
			June	0.17	0.07	0.24	77	29	105	73	0.16
			July	0.04	0.01	0.05	16	5.1	21	76	0.03
			August	0.02	0.01	0.02	6.8	2.6	9.4	73	0.014
			September	0.02	0.01	0.03	7.9	4.4	12	64	0.02
13346100	PALOUSE RIVER AT COLFAX, WA.	497	October	0.04	0.02	0.06	17	6.5	24	73	0.03
			November	0.08	0.04	0.12	35	19	53	65	0.07
			December	0.17	0.41	0.58	75	176	251	30	0.15
			January	0.36	0.77	1.13	157	332	489	32	0.32
			February	0.52	0.80	1.32	246	378	625	39	0.5
			March	*	*	1.76	*	*	758	*	*
			April	*	*	1.66	*	*	739	*	*
			May	*	*	0.86	*	*	372	*	*
			June	*	*	0.24	*	*	107	*	*
			July	0.04	0.01	0.05	18	5.2	23	78	0.04
			August	0.02	0.01	0.02	6.5	3.9	10	63	0.013
			September	0.02	0.01	0.03	7.6	5.8	13	57	0.02

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
13346500	SO FK PALOUSE R ABOVE PARADISE CR NEAR PULLMAN, WA.	84.4	October	0.00	0.00	0.01	0.29	0.29	0.59	50	0.003
			November	0.01	0.01	0.02	0.76	0.38	1.1	67	0.009
			December	0.02	0.04	0.06	1.5	2.9	4.4	33	0.02
			January	0.08	0.20	0.28	6.1	14	20	30	0.07
			February	0.20	0.22	0.41	16	17	33	47	0.19
			March	0.60	0.58	1.17	44	42	86	51	0.52
			April	0.35	0.22	0.57	26	17	43	61	0.31
			May	0.10	0.01	0.12	7.5	0.95	8.4	89	0.09
			June	0.02	0.01	0.03	1.2	0.76	2	62	0.014
			July	0.00	0.00	0.00	0.22	0.07	0.29	75	0.003
August	0.00	0.00	0.00	0	0	0	0	0			
September	0.00	0.00	0.00	0	0	0	0	0			
13347000	PARADISE CREEK NEAR PULLMAN, WA.	34.5	October	0.03	0.01	0.03	0.78	0.15	0.93	84	0.02
			November	0.03	0.01	0.04	0.83	0.25	1.1	77	0.02
			December	0.04	0.08	0.12	1.3	2.5	3.7	34	0.04
			January	0.14	0.43	0.58	4.3	13	17	25	0.12
			February	0.26	0.25	0.52	8.6	8.3	17	51	0.25
			March	0.83	0.60	1.43	25	18	43	58	0.72
			April	0.42	0.39	0.81	13	12	25	52	0.38
			May	0.08	0.02	0.09	2.3	0.48	2.8	83	0.07
			June	0.03	0.02	0.05	0.96	0.49	1.5	66	0.03
			July	0.02	0.00	0.02	0.57	0.12	0.69	83	0.02
August	0.01	0.00	0.02	0.39	0.09	0.48	81	0.011			
September	0.02	0.00	0.02	0.56	0.12	0.68	82	0.02			
13348000	SOUTH FORK PALOUSE RIVER AT PULLMAN, WA.	132	October	0.03	0.01	0.04	3.3	0.8	4.1	81	0.03
			November	0.05	0.03	0.08	5.3	3.7	9	59	0.04
			December	0.11	0.20	0.32	13	23	36	36	0.1
			January	0.26	0.48	0.74	30	55	85	35	0.23
			February	0.42	0.47	0.89	53	58	111	47	0.4
			March	0.61	0.40	1.02	70	46	117	60	0.53
			April	0.35	0.14	0.49	41	17	58	71	0.31
			May	0.15	0.05	0.20	17	5.8	23	75	0.13
			June	0.06	0.03	0.09	7.1	3.1	10	70	0.05
			July	0.03	0.01	0.03	3	0.57	3.5	84	0.02
August	0.02	0.01	0.03	2.3	0.57	2.9	80	0.02			
September	0.02	0.00	0.03	2.6	0.47	3.1	85	0.02			
13348500	MISSOURI FLAT CREEK AT PULLMAN, WA.	27.1	October	0.01	0.01	0.02	0.24	0.14	0.38	63	0.009
			November	0.02	0.03	0.05	0.56	0.68	1.2	45	0.02
			December	0.10	0.22	0.32	2.4	5.1	7.5	32	0.09
			January	0.31	0.61	0.92	7.3	14	22	34	0.27
			February	0.54	0.52	1.06	14	13	27	51	0.51
			March	0.68	0.54	1.22	16	13	29	56	0.59
			April	0.24	0.13	0.37	5.7	3.2	8.9	64	0.21
			May	0.07	0.03	0.10	1.6	0.8	2.4	66	0.06
			June	0.02	0.02	0.04	0.49	0.53	1	48	0.02
			July	0.01	0.01	0.02	0.24	0.12	0.35	67	0.009
August	0.01	0.01	0.02	0.21	0.19	0.4	53	0.008			
September	0.01	0.00	0.01	0.17	0.07	0.24	70	0.006			

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
13349000	FOURMILE CREEK AT SHAWNEE, WA.	71.6	October	0.00	0.00	0.00	0	0.06	0.06	0	0
			November	0.00	0.00	0.01	0.19	0.19	0.39	50	0.003
			December	0.02	0.06	0.08	0.93	4	4.9	19	0.013
			January	0.09	0.29	0.38	5.6	18	24	23	0.08
			February	0.24	0.31	0.55	16	21	38	44	0.23
			March	0.59	0.68	1.27	37	42	79	47	0.51
			April	0.23	0.19	0.42	15	12	27	55	0.21
			May	0.04	0.01	0.04	2.2	0.5	2.7	81	0.03
			June	0.01	0.01	0.02	0.32	0.71	1	31	0.004
			July	0.00	0.00	0.00	0	0	0	0	0
			August	0.00	0.00	0.00	0	0	0	0	0
			September	0.00	0.00	0.00	0	0	0	0	0
13349210	PALOUSE RIVER BELOW SOUTH FORK AT COLFAX, WA.	796	October	0.04	0.01	0.05	26	7.6	33	77	0.03
			November	0.07	0.04	0.12	53	29	82	64	0.07
			December	0.14	0.22	0.36	95	153	248	38	0.12
			January	0.26	0.55	0.81	180	382	562	32	0.23
			February	0.43	0.75	1.18	327	568	895	36	0.41
			March	0.93	0.53	1.46	643	363	1010	64	0.81
			April	0.75	0.29	1.03	532	204	736	72	0.67
			May	0.36	0.17	0.53	246	118	365	68	0.31
			June	0.13	0.09	0.22	93	61	154	60	0.12
			July	0.05	0.01	0.06	31	8.3	39	79	0.04
			August	0.02	0.01	0.03	14	5.5	20	72	0.02
			September	0.02	0.01	0.03	17	5.7	23	75	0.02
13349400	PINE CREEK AT PINE CITY, WA.	302	October	0.01	0.00	0.01	2.9	0.26	3.1	92	0.01
			November	0.02	0.01	0.02	5.1	1.4	6.5	79	0.02
			December	0.07	0.09	0.16	17	24	42	42	0.06
			January	0.17	0.45	0.63	46	119	165	28	0.15
			February	0.28	0.40	0.67	80	114	194	41	0.26
			March	0.40	0.31	0.71	105	81	185	56	0.35
			April	0.21	0.09	0.30	57	24	81	70	0.19
			May	0.09	0.04	0.13	24	11	35	69	0.08
			June	0.04	0.01	0.05	9.7	3.8	14	72	0.03
			July	0.01	0.00	0.02	3.7	0.79	4.5	82	0.012
			August	0.01	0.00	0.01	2.1	0.26	2.4	89	0.007
			September	0.01	0.00	0.01	2.2	0.27	2.4	89	0.007
13350500	UNION FLAT CREEK NEAR COLFAX, WA.	189	October	0.01	0.00	0.02	2.3	0.49	2.8	82	0.012
			November	0.03	0.02	0.05	5.3	3.9	9.1	57	0.03
			December	0.08	0.11	0.19	13	19	32	41	0.07
			January	0.22	0.28	0.50	36	46	83	44	0.19
			February	0.33	0.25	0.58	59	45	104	57	0.31
			March	0.43	0.32	0.74	70	52	122	58	0.37
			April	0.26	0.09	0.34	44	15	58	75	0.23
			May	0.11	0.04	0.15	18	5.9	24	75	0.09
			June	0.04	0.02	0.06	6.9	2.5	9.5	73	0.04
			July	0.01	0.00	0.02	2.1	0.49	2.6	81	0.011
			August	0.00	0.00	0.01	0.66	0.33	0.98	67	0.003
			September	0.01	0.00	0.01	1.2	0.34	1.5	78	0.006

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
13351000	PALOUSE RIVER AT HOOPER, WA.	2500	October	0.03	0.01	0.03	56	11	67	84	0.02
			November	0.04	0.02	0.06	96	45	141	68	0.04
			December	0.09	0.11	0.20	195	236	432	45	0.08
			January	0.18	0.31	0.48	379	668	1050	36	0.15
			February	0.32	0.40	0.72	759	945	1700	45	0.3
			March	0.50	0.35	0.85	1090	752	1840	59	0.44
			April	0.40	0.17	0.57	892	374	1270	70	0.36
			May	0.20	0.09	0.29	436	191	627	70	0.17
			June	0.08	0.03	0.11	182	69	251	72	0.07
			July	0.03	0.01	0.04	65	17	82	79	0.03
			August	0.01	0.00	0.02	28	6.5	35	81	0.011
			September	0.01	0.00	0.02	31	6.7	38	82	0.013
13352500	COW CREEK AT HOOPER, WA.	679	October	0.01	0.00	0.01	4.7	1.2	5.9	80	0.007
			November	0.01	0.00	0.01	6.7	0.61	7.3	92	0.01
			December	0.02	0.00	0.02	8.8	1.8	11	83	0.013
			January	0.02	0.01	0.03	14	3.5	18	80	0.02
			February	0.04	0.03	0.07	28	16	45	64	0.04
			March	*	*	0.09	*	*	52	*	*
			April	*	*	0.12	*	*	71	*	*
			May	*	*	0.09	*	*	53	*	*
			June	*	*	0.05	*	*	29	*	*
			July	0.02	0.01	0.02	8.8	3.5	12	71	0.013
			August	0.01	0.00	0.01	2.9	1.2	4.1	71	0.004
			September	0.01	0.00	0.01	3	1.2	4.3	71	0.004
13353000	SNAKE RIVER BELOW ICE HARBOR DAM, WA.	108500	October	*	*	0.29	*	*	27400	*	*
			November	*	*	0.33	*	*	31800	*	*
			December	*	*	0.40	*	*	37600	*	*
			January	*	*	0.46	*	*	43100	*	*
			February	*	*	0.48	*	*	49800	*	*
			March	*	*	0.65	*	*	61400	*	*
			April	*	*	0.81	*	*	79100	*	*
			May	*	*	1.19	*	*	112000	*	*
			June	*	*	1.19	*	*	115000	*	*
			July	*	*	0.48	*	*	45400	*	*
			August	*	*	0.26	*	*	24200	*	*
			September	*	*	0.26	*	*	25600	*	*
14013000	MILL CREEK NEAR WALLA WALLA, WA.	59.6	October	0.63	0.08	0.71	32	4.3	37	88	0.54
			November	0.92	0.46	1.38	49	25	74	66	0.82
			December	1.29	0.91	2.20	67	47	114	59	1.1
			January	1.40	1.12	2.51	72	58	130	56	1.2
			February	1.68	1.06	2.74	96	60	156	61	1.6
			March	2.18	0.89	3.07	112	46	159	71	1.9
			April	2.51	0.76	3.26	134	40	174	77	2.2
			May	2.17	0.53	2.70	112	27	140	80	1.9
			June	1.19	0.22	1.42	64	12	76	84	1.1
			July	0.71	0.03	0.73	37	1.3	38	96	0.61
			August	0.58	0.02	0.60	30	0.78	31	97	0.51
			September	0.56	0.03	0.59	30	1.5	31	95	0.5

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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean	Mean	Mean	Mean	Mean	Mean BF as % of Streamflow	Mean	
				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)		Streamflow (ft <sup>3</sup> /sec)	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
14013500	BLUE CREEK NEAR WALLA WALLA, WA.	17	October	0.13	0.05	0.18	1.9	0.78	2.7	71	0.11
			November	0.40	0.26	0.67	6.2	4	10	60	0.36
			December	0.89	0.60	1.49	13	8.8	22	60	0.77
			January	1.11	1.01	2.12	16	15	31	52	0.96
			February	1.30	0.76	2.06	21	12	33	63	1.2
			March	1.57	0.71	2.28	23	11	34	69	1.4
			April	1.53	0.53	2.06	23	8	31	74	1.4
			May	0.74	0.31	1.06	11	4.6	16	70	0.64
			June	0.25	0.19	0.44	3.7	2.9	6.7	56	0.22
			July	0.08	0.02	0.10	1.2	0.22	1.4	84	0.07
			August	0.05	0.01	0.06	0.74	0.07	0.81	91	0.04
			September	0.06	0.01	0.07	0.93	0.14	1.1	87	0.05
14015000	MILL CREEK AT WALLA WALLA, WA.	95.7	October	*	*	0.08	*	*	6.3	*	*
			November	*	*	0.55	*	*	47	*	*
			December	*	*	1.36	*	*	113	*	*
			January	*	*	1.82	*	*	151	*	*
			February	*	*	1.96	*	*	179	*	*
			March	*	*	2.08	*	*	173	*	*
			April	*	*	1.91	*	*	164	*	*
			May	*	*	1.20	*	*	100	*	*
			June	*	*	0.41	*	*	35	*	*
			July	*	*	0.04	*	*	3.6	*	*
			August	*	*	0.03	*	*	2.1	*	*
			September	*	*	0.03	*	*	2.4	*	*
14016000	DRY CREEK NEAR WALLA WALLA, WA.	48.4	October	0.07	0.03	0.10	3.1	1.3	4.4	70	0.06
			November	0.17	0.10	0.27	7.3	4.3	12	63	0.15
			December	0.37	0.38	0.74	15	16	31	49	0.32
			January	0.42	0.47	0.89	18	20	37	47	0.37
			February	0.63	0.53	1.16	29	25	53	54	0.59
			March	0.78	0.37	1.15	33	16	48	67	0.67
			April	0.78	0.28	1.06	34	12	46	73	0.69
			May	0.43	0.15	0.58	18	6.4	24	74	0.37
			June	0.15	0.08	0.23	6.5	3.5	10	65	0.13
			July	0.05	0.01	0.06	2	0.38	2.4	84	0.04
			August	0.03	0.01	0.03	1	0.34	1.4	76	0.02
			September	0.04	0.01	0.05	1.5	0.43	2	78	0.03
14016500	EAST FK TOUCHET RIVER NEAR DAYTON, WA.	102	October	0.53	0.05	0.57	46	4.1	51	92	0.46
			November	0.70	0.20	0.90	64	18	82	78	0.63
			December	1.08	0.54	1.62	96	48	144	67	0.94
			January	1.02	0.51	1.53	90	45	135	67	0.88
			February	1.22	0.73	1.95	118	71	189	63	1.2
			March	1.64	0.43	2.07	145	38	183	79	1.4
			April	2.01	0.37	2.38	184	34	218	84	1.8
			May	1.83	0.29	2.12	162	25	187	86	1.6
			June	1.02	0.09	1.12	93	8.5	102	92	0.92
			July	0.58	0.03	0.61	51	2.4	54	96	0.5
			August	0.48	0.02	0.50	42	1.5	44	97	0.42
			September	0.45	0.03	0.48	41	2.6	44	94	0.4

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean	Mean	Mean	Mean	Mean	Mean BF	Mean	
				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
14017000	TOUCHET RIVER AT BOLLES, WA.	361	October	0.18	0.03	0.21	55	9.7	65	85	0.15
			November	0.28	0.14	0.42	92	45	137	67	0.25
			December	0.46	0.39	0.86	145	123	268	54	0.4
			January	0.61	0.65	1.26	191	202	393	49	0.53
			February	0.73	0.55	1.28	252	188	440	57	0.7
			March	0.96	0.42	1.38	302	131	433	70	0.84
			April	1.02	0.31	1.32	329	99	428	77	0.91
			May	0.73	0.16	0.89	229	51	279	82	0.63
			June	0.35	0.08	0.43	113	27	140	81	0.31
			July	0.14	0.02	0.16	45	5	50	90	0.12
August	0.10	0.02	0.11	30	4.7	35	87	0.08			
September	0.12	0.02	0.14	38	6.5	44	85	0.1			
14017500	TOUCHET RIVER NEAR TOUCHET, WA.	733	October	0.08	0.02	0.09	48	11	60	81	0.07
			November	0.15	0.08	0.22	95	50	145	66	0.13
			December	0.24	0.19	0.43	153	119	272	56	0.21
			January	0.27	0.25	0.52	169	160	329	51	0.23
			February	0.37	0.45	0.83	260	316	576	45	0.35
			March	0.49	0.20	0.69	312	130	441	71	0.43
			April	0.56	0.16	0.72	371	104	475	78	0.51
			May	0.43	0.12	0.56	275	78	354	78	0.38
			June	0.19	0.07	0.26	127	45	173	74	0.17
			July	0.07	0.01	0.08	46	7.6	53	86	0.06
August	0.04	0.01	0.04	22	3.2	25	88	0.03			
September	0.04	0.01	0.05	28	5.3	33	84	0.04			
14018500	WALLA WALLA RIVER NEAR TOUCHET, WA.	1657	October	*	*	0.05	*	*	73	*	*
			November	*	*	0.20	*	*	297	*	*
			December	*	*	0.57	*	*	813	*	*
			January	*	*	0.77	*	*	1110	*	*
			February	*	*	0.84	*	*	1320	*	*
			March	*	*	0.84	*	*	1210	*	*
			April	*	*	0.73	*	*	1090	*	*
			May	*	*	0.50	*	*	724	*	*
			June	*	*	0.17	*	*	251	*	*
			July	*	*	0.03	*	*	43	*	*
August	*	*	0.01	*	*	19	*	*			
September	*	*	0.03	*	*	40	*	*			
14034350	ALDER CREEK AT ALDERDALE, WA.	197	October	0.01	0.00	0.01	0.85	0	0.85	100	0.004
			November	0.01	0.00	0.01	1.1	0	1.1	100	0.005
			December	0.01	0.25	0.26	1.5	43	44	3	0.008
			January	0.03	0.10	0.13	5	16	21	23	0.03
			February	0.04	0.09	0.13	7.5	17	24	31	0.04
			March	0.04	0.01	0.05	6.2	2.1	8.2	75	0.03
			April	0.02	0.00	0.02	3.4	0.53	3.9	86	0.02
			May	0.01	0.00	0.01	1.7	0.17	1.9	91	0.009
			June	0.01	0.00	0.01	1.1	0.18	1.2	86	0.005
			July	0.00	0.00	0.01	0.68	0.17	0.85	80	0.003
August	0.00	0.00	0.01	0.68	0.17	0.85	80	0.003			
September	0.00	0.00	0.00	0.71	0	0.71	100	0.004			



## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
14036600	ROCK CREEK NEAR ROOSEVELT, WA.	213	October	0.00	0.00	0.00	0.37	0	0.37	100	0.002
			November	0.02	0.01	0.02	3.1	0.95	4	76	0.014
			December	0.06	0.59	0.65	11	109	120	10	0.05
			January	0.33	0.45	0.78	61	82	143	42	0.29
			February	0.31	0.38	0.69	63	76	139	45	0.3
			March	0.30	0.13	0.43	55	23	79	70	0.26
			April	0.22	0.08	0.30	43	15	57	75	0.2
			May	0.08	0.01	0.09	15	1.8	17	89	0.07
			June	0.02	0.00	0.02	3.6	0.57	4.2	86	0.02
			July	0.00	0.00	0.00	0.55	0.18	0.74	75	0.003
			August	0.00	0.00	0.00	0	0	0	0	0
			September	0.00	0.00	0.00	0.19	0	0.19	100	0.001
14107000	KLICKITAT RIVER ABOVE WEST FK NEAR GLENWOOD, WA.	151	October	0.84	0.15	0.99	110	20	130	85	0.73
			November	1.07	0.36	1.43	145	49	194	75	0.96
			December	1.33	0.52	1.86	175	68	243	72	1.2
			January	1.24	0.43	1.67	162	56	218	74	1.1
			February	1.34	0.53	1.88	193	77	270	72	1.3
			March	*	*	1.84	*	*	242	*	*
			April	*	*	3.35	*	*	454	*	*
			May	*	*	7.13	*	*	934	*	*
			June	*	*	5.44	*	*	736	*	*
			July	*	*	2.25	*	*	295	*	*
			August	1.04	0.03	1.06	136	3.4	139	98	0.9
			September	0.73	0.05	0.78	99	6.2	105	94	0.66
14108000	WEST FORK KLICKITAT RIVER NEAR GLENWOOD, WA.	87	October	2.74	0.28	3.02	207	21	228	91	2.4
			November	2.91	0.61	3.52	227	47	274	83	2.6
			December	2.65	0.86	3.51	200	65	265	76	2.3
			January	2.60	0.31	2.91	196	24	220	89	2.3
			February	2.49	0.43	2.92	207	35	242	85	2.4
			March	*	*	2.94	*	*	222	*	*
			April	*	*	3.87	*	*	301	*	*
			May	*	*	8.78	*	*	663	*	*
			June	*	*	7.19	*	*	561	*	*
			July	*	*	4.13	*	*	312	*	*
			August	3.18	0.06	3.24	240	4.7	245	98	2.8
			September	2.86	0.07	2.93	223	5.2	228	98	2.6
14110000	KLICKITAT RIVER NEAR GLENWOOD, WA.	360	October	1.33	0.13	1.45	414	39	453	91	1.1
			November	1.44	0.29	1.73	465	95	560	83	1.3
			December	1.70	0.39	2.09	531	121	652	82	1.5
			January	1.73	0.31	2.04	540	96	636	85	1.5
			February	1.62	0.30	1.91	554	102	656	84	1.5
			March	*	*	2.22	*	*	694	*	*
			April	*	*	3.65	*	*	1180	*	*
			May	*	*	5.92	*	*	1850	*	*
			June	*	*	4.81	*	*	1550	*	*
			July	*	*	2.75	*	*	859	*	*
			August	1.67	0.06	1.74	522	20	542	96	1.4
			September	1.30	0.06	1.37	421	20	441	95	1.2

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14112000	LITTLE KLICKITAT RIVER NEAR GOLDENDALE, WA.	83.5	October	0.07	0.02	0.09	4.9	1.4	6.2	78	0.06
			November	0.16	0.14	0.30	12	10	22	53	0.14
			December	0.41	0.59	1.00	30	43	72	41	0.36
			January	0.64	0.74	1.38	46	53	100	47	0.56
			February	1.16	0.93	2.09	93	74	166	56	1.1
			March	1.35	0.46	1.81	97	34	131	74	1.2
			April	1.27	0.27	1.54	95	20	115	83	1.1
			May	0.81	0.11	0.92	58	7.9	66	88	0.7
			June	0.36	0.05	0.41	27	3.7	31	88	0.33
			July	0.09	0.01	0.10	6.5	0.8	7.3	89	0.08
			August	0.03	0.01	0.03	2	0.36	2.4	85	0.02
			September	0.03	0.01	0.03	2.1	0.45	2.5	82	0.03
14112300	SPRING CREEK NEAR BLOCKHOUSE, WA.	2.75	October	5.50	0.02	5.52	13	0.05	13	100	4.8
			November	5.17	0.03	5.21	13	0.08	13	99	4.6
			December	5.42	1.23	6.65	13	2.9	16	81	4.7
			January	5.52	0.93	6.45	13	2.2	15	86	4.8
			February	5.14	0.21	5.35	13	0.55	14	96	4.9
			March	5.58	0.07	5.65	13	0.16	13	99	4.8
			April	5.45	0.01	5.46	13	0.03	13	100	4.9
			May	5.46	0.01	5.47	13	0.02	13	100	4.7
			June	5.38	0.03	5.41	13	0.06	13	100	4.8
			July	5.83	0.03	5.86	14	0.07	14	100	5.1
			August	5.71	0.01	5.72	14	0.02	14	100	5
			September	5.33	0.03	5.35	13	0.06	13	100	4.8
14112400	MILL CREEK NEAR BLOCKHOUSE, WA.	26.9	October	0.19	0.01	0.20	4.3	0.28	4.6	94	0.16
			November	0.24	0.02	0.27	5.9	0.55	6.4	91	0.22
			December	0.32	0.18	0.50	7.6	4.1	12	65	0.28
			January	0.64	0.32	0.96	15	7.5	22	66	0.55
			February	0.91	0.32	1.23	23	8.2	32	74	0.87
			March	1.43	0.12	1.55	33	2.8	36	92	1.2
			April	1.22	0.09	1.30	29	2.1	31	93	1.1
			May	0.95	0.11	1.06	22	2.6	25	90	0.82
			June	0.43	0.01	0.44	10	0.31	11	97	0.38
			July	0.19	0.01	0.20	4.3	0.3	4.6	93	0.16
			August	0.11	0.01	0.12	2.6	0.16	2.8	94	0.1
			September	0.15	0.01	0.16	3.6	0.22	3.9	94	0.14
14112500	LITTLE KLICKITAT RIVER NEAR WAHKIACUS, WA.	280	October	0.14	0.02	0.16	35	3.6	38	91	0.12
			November	0.21	0.09	0.30	53	22	76	71	0.19
			December	0.42	0.52	0.94	102	126	228	45	0.37
			January	0.67	0.81	1.48	162	196	358	45	0.58
			February	0.83	0.73	1.56	221	193	414	53	0.79
			March	0.99	0.37	1.35	239	89	328	73	0.85
			April	0.86	0.14	1.00	217	35	252	86	0.77
			May	0.60	0.07	0.68	147	18	164	89	0.52
			June	0.30	0.03	0.33	76	7.3	83	91	0.27
			July	0.14	0.01	0.15	34	2.2	36	94	0.12
			August	0.10	0.01	0.10	24	1.7	25	93	0.08
			September	0.10	0.01	0.11	26	2	28	93	0.09

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14113000	KLICKITAT RIVER NEAR PITT, WA.	1297	October	0.63	0.05	0.68	708	54	762	93	0.55
			November	0.69	0.15	0.84	804	172	976	82	0.62
			December	0.88	0.43	1.31	988	488	1480	67	0.76
			January	1.05	0.60	1.65	1190	672	1860	64	0.91
			February	1.17	0.66	1.83	1440	811	2260	64	1.1
			March	*	*	2.03	*	*	2280	*	*
			April	*	*	2.02	*	*	2340	*	*
			May	*	*	2.21	*	*	2490	*	*
			June	*	*	1.67	*	*	1940	*	*
			July	0.98	0.05	1.03	1100	54	1150	95	0.85
			August	0.72	0.02	0.74	804	22	827	97	0.62
			September	0.61	0.03	0.64	713	29	742	96	0.55
14121300	WHITE SALMON R BELOW CASCADES CR NEAR TROUT L, WA.	32.4	October	3.18	0.32	3.50	89	8.9	98	91	2.8
			November	3.43	0.83	4.27	100	24	124	80	3.1
			December	4.13	1.32	5.45	116	37	153	76	3.6
			January	3.86	1.10	4.95	108	31	139	78	3.3
			February	3.61	0.70	4.31	111	22	133	84	3.4
			March	3.76	0.32	4.08	106	9	115	92	3.3
			April	*	*	4.87	*	*	141	*	*
			May	*	*	8.40	*	*	236	*	*
			June	*	*	8.73	*	*	254	*	*
			July	*	*	6.59	*	*	185	*	*
			August	4.58	0.24	4.82	129	6.8	135	95	4
			September	3.38	0.27	3.65	98	7.8	106	93	3
14121400	WHITE SALMON R ABOVE TR LK CREEK NEAR TROUT LK, WA.	64.9	October	2.88	0.25	3.13	162	14	176	92	2.5
			November	3.02	0.54	3.56	176	31	207	85	2.7
			December	3.33	0.59	3.91	187	33	220	85	2.9
			January	3.23	0.55	3.77	182	31	212	86	2.8
			February	3.40	0.72	4.11	210	44	254	83	3.2
			March	3.55	0.18	3.73	200	10	210	95	3.1
			April	*	*	4.76	*	*	277	*	*
			May	*	*	6.16	*	*	347	*	*
			June	*	*	5.86	*	*	341	*	*
			July	*	*	4.42	*	*	249	*	*
			August	3.49	0.12	3.61	196	6.8	203	97	3
			September	2.87	0.14	3.00	167	8	175	95	2.6
14121500	TROUT LAKE CREEK NEAR TROUT LAKE, WA.	69.3	October	1.23	0.52	1.75	74	31	105	70	1.1
			November	2.49	1.92	4.41	155	119	274	57	2.2
			December	3.57	1.54	5.11	215	92	307	70	3.1
			January	3.18	1.58	4.76	191	95	286	67	2.8
			February	3.60	1.60	5.20	238	105	343	69	3.4
			March	3.94	0.64	4.58	237	39	276	86	3.4
			April	*	*	6.90	*	*	429	*	*
			May	*	*	9.41	*	*	565	*	*
			June	*	*	5.66	*	*	352	*	*
			July	1.60	0.05	1.65	96	3.2	99	97	1.4
			August	0.82	0.07	0.89	50	4.1	54	92	0.71
			September	0.73	0.11	0.85	46	6.9	52	87	0.66

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14122000	WHITE SALMON RIVER NEAR TROUT LAKE, WA.	185	October	0.91	0.17	1.08	146	28	174	84	0.79
			November	1.53	0.67	2.20	254	111	365	70	1.4
			December	2.04	0.82	2.86	328	132	459	71	1.8
			January	2.06	0.62	2.68	330	100	430	77	1.8
			February	2.39	0.68	3.07	420	120	541	78	2.3
			March	2.27	0.28	2.54	363	44	408	89	2
			April	3.42	0.64	4.06	567	106	673	84	3.1
			May	3.94	0.58	4.51	631	92	724	87	3.4
			June	2.52	0.31	2.83	418	51	469	89	2.3
			July	1.03	0.05	1.08	165	8.5	174	95	0.89
			August	0.61	0.03	0.64	97	5.3	103	95	0.53
			September	0.54	0.06	0.60	90	10	100	90	0.48
14122500	WHITE SALMON RIVER AT SPLASH DAM NEAR TROUT LK, WA.	240	October	0.81	0.12	0.94	169	26	195	87	0.71
			November	1.28	0.47	1.75	276	100	377	73	1.2
			December	1.13	0.25	1.38	235	52	288	82	0.98
			January	1.28	0.47	1.75	267	98	365	73	1.1
			February	1.19	0.15	1.33	271	33	305	89	1.1
			March	*	*	2.41	*	*	501	*	*
			April	*	*	3.86	*	*	830	*	*
			May	*	*	4.26	*	*	887	*	*
			June	*	*	3.26	*	*	702	*	*
			July	1.73	0.18	1.92	361	38	399	90	1.5
			August	0.80	0.05	0.85	167	9.8	177	94	0.7
			September	0.76	0.09	0.85	164	20	184	89	0.68
14122900	WHITE SALMON RIVER AT B-Z CORNER, WA.	269	October	1.62	0.28	1.90	378	64	442	85	1.4
			November	1.96	0.67	2.63	473	161	634	75	1.8
			December	2.51	0.75	3.26	585	175	761	77	2.2
			January	2.93	0.81	3.74	684	189	873	78	2.5
			February	3.38	0.89	4.26	864	227	1090	79	3.2
			March	3.64	0.26	3.90	850	61	911	93	3.2
			April	4.32	0.44	4.77	1040	107	1150	91	3.9
			May	4.56	0.47	5.03	1060	109	1170	91	4
			June	3.72	0.33	4.05	897	79	976	92	3.3
			July	2.50	0.07	2.57	584	16	600	97	2.2
			August	1.88	0.07	1.95	439	17	455	96	1.6
			September	1.53	0.11	1.65	369	27	397	93	1.4
14123000	WHITE SALMON RIVER AT HUSUM, WA.	294	October	2.16	0.13	2.28	550	33	582	94	1.9
			November	2.32	0.46	2.77	611	120	731	84	2.1
			December	2.78	0.86	3.64	708	220	928	76	2.4
			January	3.40	0.73	4.12	866	185	1050	82	2.9
			February	3.40	0.45	3.85	953	126	1080	88	3.2
			March	4.10	0.49	4.59	1040	125	1170	89	3.6
			April	4.61	0.54	5.15	1220	142	1360	90	4.1
			May	5.05	0.46	5.51	1290	117	1410	92	4.4
			June	4.33	0.34	4.67	1140	89	1230	93	3.9
			July	3.35	0.09	3.44	855	22	877	97	2.9
			August	2.63	0.05	2.67	670	12	681	98	2.3
			September	2.26	0.08	2.34	596	21	616	97	2

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
14123500	WHITE SALMON RIVER NEAR UNDERWOOD, WA.	386	October	*	*	1.88	*	*	628	*	*
			November	*	*	2.31	*	*	799	*	*
			December	*	*	3.41	*	*	1140	*	*
			January	*	*	3.90	*	*	1300	*	*
			February	*	*	4.05	*	*	1490	*	*
			March	*	*	4.42	*	*	1480	*	*
			April	*	*	4.33	*	*	1500	*	*
			May	*	*	4.46	*	*	1490	*	*
			June	*	*	3.62	*	*	1250	*	*
			July	*	*	2.63	*	*	881	*	*
August	*	*	2.07	*	*	692	*	*			
September	*	*	1.81	*	*	626	*	*			
14124000	LITTLE WHITE SALMON RIVER NEAR WILLARD, WA.	39.2	October	0.70	0.72	1.42	24	24	48	49	0.61
			November	2.05	2.22	4.26	72	78	150	48	1.8
			December	4.27	5.29	9.57	145	180	325	45	3.7
			January	5.12	2.59	7.71	174	88	262	66	4.4
			February	4.99	3.91	8.90	186	146	332	56	4.8
			March	5.53	2.14	7.66	188	73	261	72	4.8
			April	4.92	0.48	5.41	173	17	190	91	4.4
			May	2.96	1.20	4.17	101	41	142	71	2.6
			June	1.65	0.07	1.71	58	2.4	60	96	1.5
			July	0.94	0.05	0.99	32	1.6	33	95	0.81
August	0.52	0.02	0.54	18	0.54	18	97	0.45			
September	0.42	0.06	0.47	15	2	17	88	0.37			
14124500	LITTLE WHITE SALMON RIVER AT WILLARD, WA.	114	October	0.65	0.29	0.94	64	28	93	70	0.57
			November	2.00	0.98	2.98	204	100	304	67	1.8
			December	4.78	1.70	6.48	472	168	640	74	4.1
			January	5.54	1.44	6.98	547	142	690	79	4.8
			February	5.33	1.81	7.13	578	196	774	75	5.1
			March	5.50	1.07	6.58	544	106	650	84	4.8
			April	5.50	0.65	6.15	562	66	629	89	4.9
			May	5.02	0.26	5.28	496	26	522	95	4.4
			June	4.32	0.13	4.45	441	13	455	97	3.9
			July	3.05	0.33	3.38	301	33	334	90	2.6
August	1.61	0.26	1.87	159	26	185	86	1.4			
September	0.74	0.07	0.81	76	7.2	83	91	0.67			
14125000	LITTLE WHITE SALMON R ABOVE LAPHAM CREEK WILLARD, WA.	117	October	1.19	0.22	1.41	121	22	143	85	1
			November	2.48	1.03	3.51	260	108	368	71	2.2
			December	5.50	1.35	6.85	559	137	695	80	4.8
			January	6.47	1.46	7.93	657	148	805	82	5.6
			February	6.12	1.89	8.01	681	210	892	76	5.8
			March	6.13	1.19	7.32	622	121	743	84	5.3
			April	6.45	0.97	7.42	676	102	778	87	5.8
			May	5.66	0.22	5.88	574	22	596	96	4.9
			June	4.79	0.11	4.89	502	11	513	98	4.3
			July	3.56	0.22	3.78	362	22	384	94	3.1
August	2.24	0.14	2.38	227	14	241	94	1.9			
September	1.32	0.05	1.37	138	5	143	96	1.2			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean	Mean	Mean	Mean	Mean	Mean BF	Mean	
				Baseflow (in)	Surface Runoff (in)	Streamflow (in)	Baseflow (ft <sup>3</sup> /sec)	Surface Runoff (ft <sup>3</sup> /sec)	Streamflow (ft <sup>3</sup> /sec)	as % of Streamflow	Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
14125500	LITTLE WHITE SALMON RIVER NEAR COOK, WA.	134	October	1.24	0.12	1.35	144	14	157	91	1.1
			November	2.14	0.62	2.76	257	74	332	78	1.9
			December	4.63	1.61	6.24	538	187	725	74	4
			January	6.09	2.25	8.34	707	262	969	73	5.3
			February	6.27	1.38	7.65	800	176	976	82	6
			March	6.38	0.99	7.37	741	115	856	87	5.5
			April	5.51	0.56	6.08	662	67	730	91	4.9
			May	4.74	0.18	4.92	551	20	571	96	4.1
			June	4.04	0.10	4.14	485	12	497	98	3.6
			July	3.10	0.13	3.24	361	15	376	96	2.7
August	2.04	0.06	2.10	237	7	244	97	1.8			
September	1.35	0.03	1.39	163	3.7	166	98	1.2			
14126500	FALLS CREEK NEAR CARSON, WA.	24.3	October	1.33	0.71	2.04	28	15	43	65	1.2
			November	2.91	1.21	4.12	63	26	90	71	2.6
			December	6.20	1.39	7.59	131	29	160	82	5.4
			January	5.37	1.41	6.78	113	30	143	79	4.7
			February	4.00	1.16	5.16	93	27	119	78	3.8
			March	4.28	0.60	4.88	90	13	103	88	3.7
			April	4.38	0.46	4.84	95	9.9	105	91	3.9
			May	6.78	0.71	7.49	143	15	158	90	5.9
			June	4.42	0.24	4.66	96	5.2	102	95	4
			July	2.15	0.08	2.24	45	1.7	47	96	1.9
August	1.21	0.02	1.23	26	0.38	26	99	1.1			
September	0.91	0.08	0.98	20	1.6	21	92	0.81			
14127000	WIND RIVER ABOVE TROUT CREEK NEAR CARSON, WA.	108	October	1.57	1.10	2.67	147	103	250	59	1.4
			November	3.96	3.08	7.04	384	298	681	56	3.6
			December	6.45	4.03	10.48	604	378	982	62	5.6
			January	6.41	3.34	9.75	600	313	913	66	5.6
			February	5.86	3.38	9.24	602	347	949	63	5.6
			March	6.36	1.97	8.33	596	185	781	76	5.5
			April	7.55	1.69	9.24	731	164	895	82	6.8
			May	6.75	1.16	7.91	633	109	741	85	5.9
			June	3.95	0.46	4.41	383	44	427	90	3.5
			July	1.97	0.09	2.05	184	8	192	96	1.7
August	1.14	0.06	1.20	107	5.6	112	95	0.99			
September	0.92	0.13	1.05	89	13	101	88	0.82			
14127500	TROUT CREEK NEAR CARSON, WA.	30.3	October	4.50	1.72	6.22	118	45	163	72	3.9
			November	8.52	5.65	14.18	231	153	385	60	7.6
			December	9.04	7.23	16.27	238	190	428	56	7.8
			January	8.62	5.18	13.80	226	136	363	62	7.5
			February	7.04	4.80	11.84	203	138	341	59	6.7
			March	7.18	2.76	9.94	189	72	261	72	6.2
			April	8.77	1.70	10.47	238	46	284	84	7.9
			May	8.32	1.04	9.36	219	27	246	89	7.2
			June	3.05	0.49	3.54	83	13	96	86	2.7
			July	1.46	0.17	1.63	38	4.4	43	90	1.3
August	0.50	0.01	0.51	13	0.29	13	98	0.43			
September	0.45	0.26	0.71	12	7.1	19	63	0.4			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
14128000	PANTHER CREEK NEAR CARSON, WA.	30.1	October	3.44	0.84	4.28	90	22	112	80	3
			November	5.00	2.88	7.88	135	78	213	63	4.5
			December	8.41	2.61	11.02	220	68	288	76	7.3
			January	7.89	3.22	11.11	206	84	290	71	6.8
			February	7.68	3.52	11.20	220	101	321	69	7.3
			March	7.16	2.17	9.33	187	57	244	77	6.2
			April	7.27	1.02	8.29	196	28	224	88	6.5
			May	6.34	0.91	7.25	166	24	189	87	5.5
			June	4.25	0.09	4.34	115	2.4	117	98	3.8
			July	3.38	0.04	3.42	88	0.91	89	99	2.9
			August	2.73	0.02	2.76	71	0.6	72	99	2.4
			September	2.31	0.05	2.37	62	1.5	64	98	2.1
14128500	WIND RIVER NEAR CARSON, WA.	225	October	1.49	0.92	2.41	291	179	470	62	1.3
			November	3.69	3.06	6.75	745	617	1360	55	3.3
			December	6.17	4.64	10.81	1210	905	2110	57	5.4
			January	6.61	4.35	10.96	1290	849	2140	60	5.7
			February	5.86	3.34	9.20	1260	715	1970	64	5.6
			March	6.45	2.53	8.97	1260	493	1750	72	5.6
			April	6.70	1.74	8.44	1350	351	1700	79	6
			May	5.65	1.01	6.65	1100	197	1300	85	4.9
			June	3.27	0.41	3.68	658	83	741	89	2.9
			July	1.83	0.08	1.91	356	16	372	96	1.6
			August	1.19	0.05	1.24	232	11	242	96	1
			September	1.02	0.15	1.16	205	30	235	87	0.91
14143500	WASHOUGAL RIVER NEAR WASHOUGAL, WA.	108	October	2.62	3.10	5.71	245	290	535	46	2.3
			November	6.64	7.06	13.70	642	684	1330	48	5.9
			December	9.70	9.54	19.24	909	894	1800	50	8.4
			January	9.62	8.35	17.97	901	782	1680	54	8.3
			February	8.17	6.79	14.96	840	698	1540	55	7.8
			March	8.91	4.58	13.48	834	429	1260	66	7.7
			April	7.83	2.93	10.76	758	284	1040	73	7
			May	4.90	1.56	6.46	459	146	605	76	4.2
			June	2.51	1.01	3.52	243	97	340	71	2.2
			July	1.42	0.30	1.72	133	28	161	83	1.2
			August	0.92	0.21	1.13	86	20	106	81	0.8
			September	1.01	0.71	1.72	98	69	167	59	0.91
14144000	LITTLE WASHOUGAL RIVER NEAR WASHOUGAL, WA.	23.3	October	1.36	1.90	3.26	27	38	66	42	1.2
			November	3.95	2.54	6.49	83	53	136	61	3.5
			December	6.10	3.51	9.60	123	71	194	63	5.3
			January	8.08	3.52	11.60	163	71	234	70	7
			February	5.71	3.19	8.91	127	71	197	64	5.4
			March	5.06	1.84	6.90	102	37	139	73	4.4
			April	4.22	1.22	5.45	88	26	114	78	3.8
			May	2.39	0.46	2.85	48	9.3	58	84	2.1
			June	2.05	0.68	2.73	43	14	57	75	1.8
			July	0.92	0.09	1.01	19	1.8	20	91	0.8
			August	0.51	0.09	0.60	10	1.8	12	85	0.44
			September	0.43	0.10	0.53	9	2.1	11	81	0.38

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14212000	SALMON CREEK NEAR BATTLE GROUND, WA.	18.3	October	0.83	0.64	1.47	13	10	23	56	0.72
			November	3.58	2.22	5.80	59	36	95	62	3.2
			December	5.90	3.03	8.92	94	48	142	66	5.1
			January	6.00	3.61	9.61	95	57	152	62	5.2
			February	4.41	2.55	6.96	77	44	121	63	4.2
			March	4.17	1.79	5.97	66	28	95	70	3.6
			April	2.81	0.95	3.76	46	16	62	75	2.5
			May	1.78	0.53	2.31	28	8.4	37	77	1.5
			June	0.91	0.29	1.20	15	4.7	20	76	0.81
			July	0.44	0.06	0.50	7	0.97	8	88	0.38
			August	0.24	0.04	0.28	3.8	0.6	4.4	86	0.21
			September	0.24	0.09	0.33	3.9	1.5	5.4	73	0.21
14213200	LEWIS RIVER NEAR TROUT LAKE, WA.	127	October	2.06	1.02	3.09	227	113	340	67	1.8
			November	3.80	2.90	6.70	433	330	763	57	3.4
			December	4.77	2.91	7.68	526	321	846	62	4.1
			January	5.08	2.94	8.02	560	324	884	63	4.4
			February	4.75	2.32	7.07	574	280	854	67	4.5
			March	4.10	1.01	5.10	451	111	562	80	3.6
			April	*	*	7.65	*	*	870	*	*
			May	*	*	11.78	*	*	1300	*	*
			June	*	*	9.17	*	*	1040	*	*
			July	3.54	0.38	3.91	390	42	431	90	3.1
			August	1.79	0.19	1.98	197	20	218	91	1.6
			September	1.31	0.28	1.59	149	32	181	82	1.2
14213500	BIG CREEK BELOW SKOOKUM MDW NEAR TROUT LK, WA.	13.2	October	2.02	1.02	3.04	23	12	35	66	1.8
			November	3.71	2.30	6.01	44	27	71	62	3.3
			December	3.98	2.47	6.45	46	28	74	62	3.5
			January	3.75	1.65	5.41	43	19	62	69	3.3
			February	3.93	1.42	5.34	49	18	67	73	3.7
			March	3.55	1.02	4.57	41	12	52	78	3.1
			April	*	*	7.65	*	*	91	*	*
			May	*	*	11.64	*	*	133	*	*
			June	*	*	7.01	*	*	83	*	*
			July	1.93	0.10	2.02	22	1.1	23	95	1.7
			August	1.00	0.09	1.09	11	1.1	12	91	0.86
			September	0.85	0.20	1.05	10	2.4	12	81	0.76
14214000	RUSH CREEK ABOVE MEADOW CREEK NEAR TROUT LAKE, WA.	5.87	October	0.54	1.57	2.10	2.7	8	11	25	0.46
			November	1.57	4.51	6.07	8.2	24	32	26	1.4
			December	1.26	3.43	4.69	6.4	17	24	27	1.1
			January	0.95	1.51	2.46	4.8	7.7	13	39	0.82
			February	0.82	1.73	2.55	4.6	9.6	14	32	0.78
			March	0.50	0.51	1.01	2.5	2.6	5.1	49	0.43
			April	*	*	3.45	*	*	18	*	*
			May	*	*	9.95	*	*	51	*	*
			June	*	*	14.63	*	*	77	*	*
			July	*	*	5.01	*	*	26	*	*
			August	0.18	0.21	0.39	0.9	1.1	2	46	0.15
			September	0.07	0.41	0.48	0.35	2.2	2.5	14	0.06



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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
14214500	MEADOW CR BELOW LONE BUTTE MDW NEAR TROUT LK, WA.	11.7	October	7.37	0.45	7.81	75	4.5	79	94	6.4
			November	7.88	1.18	9.06	83	12	95	87	7.1
			December	8.52	1.36	9.88	86	14	100	86	7.4
			January	8.43	0.62	9.05	86	6.3	92	93	7.3
			February	8.02	0.58	8.60	89	6.4	96	93	7.6
			March	8.21	0.30	8.50	83	3	86	97	7.1
			April	9.32	0.60	9.92	98	6.3	104	94	8.4
			May	11.42	0.68	12.10	116	6.9	123	94	9.9
			June	10.52	0.47	10.99	110	4.9	115	96	9.4
			July	8.73	0.09	8.82	89	0.9	90	99	7.6
August	7.82	0.06	7.88	79	0.62	80	99	6.8			
September	6.98	0.12	7.09	73	1.2	74	98	6.3			
14215000	RUSH CREEK ABOVE FALLS NEAR COUGAR, WA.	26	October	5.24	0.53	5.77	118	12	130	91	4.5
			November	5.56	1.28	6.84	129	30	159	81	5
			December	6.20	1.42	7.61	140	32	172	81	5.4
			January	6.19	1.25	7.43	139	28	168	83	5.4
			February	5.95	0.62	6.58	147	15	163	91	5.7
			March	6.24	0.47	6.71	141	11	151	93	5.4
			April	*	*	7.30	*	*	170	*	*
			May	*	*	10.63	*	*	240	*	*
			June	*	*	10.98	*	*	256	*	*
			July	*	*	7.84	*	*	177	*	*
August	5.88	0.08	5.97	133	1.8	135	99	5.1			
September	5.11	0.17	5.28	119	3.9	123	97	4.6			
14215500	CURLY CREEK NEAR COUGAR, WA.	11.6	October	2.06	0.54	2.60	21	5.4	26	79	1.8
			November	4.62	2.48	7.09	48	26	74	65	4.1
			December	6.11	2.32	8.43	61	23	85	72	5.3
			January	6.14	1.78	7.91	62	18	80	78	5.3
			February	5.61	1.63	7.24	62	18	80	77	5.3
			March	4.72	0.77	5.49	48	7.7	55	86	4.1
			April	*	*	8.19	*	*	85	*	*
			May	*	*	10.91	*	*	110	*	*
			June	*	*	7.08	*	*	74	*	*
			July	2.89	0.08	2.97	29	0.84	30	97	2.5
August	1.65	0.04	1.69	17	0.42	17	98	1.4			
September	1.39	0.08	1.47	14	0.8	15	95	1.2			
14216000	LEWIS RIVER ABOVE MUDDY RIVER NEAR COUGAR, WA.	227	October	2.47	0.94	3.41	486	186	671	72	2.1
			November	4.49	2.62	7.11	913	534	1450	63	4
			December	5.51	3.37	8.87	1080	663	1750	62	4.8
			January	5.49	2.37	7.86	1080	466	1550	70	4.8
			February	4.97	1.69	6.66	1070	364	1440	75	4.7
			March	5.06	1.57	6.63	996	310	1310	76	4.4
			April	6.92	1.64	8.56	1410	333	1740	81	6.2
			May	8.92	1.96	10.87	1760	385	2140	82	7.7
			June	6.98	1.42	8.40	1420	288	1710	83	6.3
			July	3.61	0.25	3.86	712	49	760	94	3.1
August	2.05	0.10	2.16	404	20	425	95	1.8			
September	1.63	0.18	1.81	332	36	368	90	1.5			

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14216500	MUDDY RIVER BELOW CLEAR CREEK NEAR COUGAR, WA.	131	October	2.25	0.90	3.15	256	102	358	71	2
			November	5.36	3.38	8.74	630	397	1030	61	4.8
			December	6.73	4.33	11.06	765	492	1260	61	5.8
			January	6.56	3.66	10.22	745	416	1160	64	5.7
			February	6.09	2.97	9.06	760	370	1130	67	5.8
			March	7.05	2.24	9.28	801	254	1060	76	6.1
			April	8.33	1.92	10.25	979	225	1200	81	7.5
			May	9.80	2.30	12.09	1110	261	1370	81	8.5
			June	7.15	1.21	8.36	839	142	981	86	6.4
			July	3.54	0.23	3.77	402	26	428	94	3.1
			August	1.86	0.09	1.94	211	9.7	221	96	1.6
			September	1.48	0.22	1.70	174	26	200	87	1.3
14216800	PINE CREEK NEAR COUGAR, WA.	22.4	October	6.91	0.81	7.72	134	16	150	89	6
			November	8.41	2.42	10.83	169	49	217	78	7.5
			December	9.58	2.56	12.15	186	50	236	79	8.3
			January	10.05	2.49	12.54	195	48	244	80	8.7
			February	9.54	1.69	11.23	203	36	239	85	9.1
			March	9.60	1.00	10.60	187	19	206	91	8.3
			April	10.92	1.24	12.16	219	25	244	90	9.8
			May	10.11	0.72	10.82	196	14	210	93	8.8
			June	7.91	0.21	8.12	159	4.3	163	97	7.1
			July	7.20	0.05	7.25	140	0.93	141	99	6.2
			August	6.65	0.06	6.71	129	1.2	130	99	5.8
			September	6.14	0.15	6.29	123	3.1	126	98	5.5
14217500	SWIFT CREEK NEAR COUGAR, WA.	27.5	October	5.91	1.04	6.96	141	25	166	85	5.1
			November	7.62	2.02	9.64	188	50	238	79	6.8
			December	8.14	1.53	9.67	194	37	231	84	7.1
			January	8.75	1.06	9.80	209	25	234	89	7.6
			February	7.41	1.58	9.00	194	41	235	82	7.1
			March	8.35	1.40	9.75	199	33	233	86	7.2
			April	8.89	0.60	9.49	219	15	234	94	8
			May	9.67	0.58	10.25	231	14	244	94	8.4
			June	8.98	0.68	9.65	221	17	238	93	8
			July	7.39	0.18	7.57	176	4.3	181	98	6.4
			August	5.97	0.10	6.07	142	2.4	145	98	5.2
			September	5.04	0.21	5.25	124	5.2	129	96	4.5
14218000	LEWIS RIVER NEAR COUGAR, WA.	481	October	*	*	3.58	*	*	1490	*	*
			November	*	*	7.39	*	*	3190	*	*
			December	*	*	10.06	*	*	4200	*	*
			January	*	*	8.61	*	*	3590	*	*
			February	*	*	7.77	*	*	3560	*	*
			March	*	*	7.97	*	*	3330	*	*
			April	*	*	9.30	*	*	4010	*	*
			May	*	*	10.68	*	*	4460	*	*
			June	*	*	7.74	*	*	3340	*	*
			July	*	*	4.02	*	*	1680	*	*
			August	*	*	2.35	*	*	979	*	*
			September	*	*	1.99	*	*	859	*	*

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14219000	CANYON CREEK NEAR AMBOY, WA.	63.8	October	2.39	2.07	4.46	132	114	247	54	2.1
			November	6.02	3.77	9.79	344	215	560	62	5.4
			December	9.46	6.56	16.01	523	363	886	59	8.2
			January	9.93	6.21	16.14	550	343	893	62	8.6
			February	6.56	4.58	11.14	399	278	677	59	6.2
			March	7.87	4.22	12.09	436	234	669	65	6.8
			April	6.23	1.72	7.95	356	99	455	78	5.6
			May	4.58	1.18	5.75	253	65	318	80	4
			June	2.54	1.06	3.60	145	61	206	70	2.3
			July	1.21	0.22	1.43	67	12	79	85	1
	August	0.62	0.07	0.69	35	3.8	38	90	0.54		
	September	0.79	0.50	1.28	45	29	73	61	0.7		
14219500	LEWIS RIVER NEAR AMBOY, WA.	665	October	2.63	1.10	3.73	1520	633	2150	71	2.3
			November	4.75	3.02	7.77	2830	1800	4630	61	4.3
			December	5.54	4.63	10.17	3200	2670	5870	54	4.8
			January	6.25	4.09	10.34	3610	2360	5960	60	5.4
			February	5.77	2.87	8.63	3650	1810	5470	67	5.5
			March	5.82	2.41	8.23	3360	1390	4740	71	5
			April	7.50	1.60	9.10	4470	954	5430	82	6.7
			May	7.84	1.70	9.54	4520	981	5500	82	6.8
			June	5.51	1.27	6.78	3280	756	4040	81	4.9
			July	3.18	0.28	3.46	1830	160	1990	92	2.8
	August	1.95	0.09	2.04	1130	52	1180	96	1.7		
	September	1.80	0.50	2.31	1080	299	1370	78	1.6		
14219800	SPEELYAI CREEK NEAR COUGAR, WA.	12.6	October	2.91	2.44	5.35	32	27	58	54	2.5
			November	7.72	6.40	14.12	87	72	159	55	6.9
			December	11.87	8.12	20.00	130	89	219	59	10
			January	10.38	8.00	18.38	113	87	201	56	9
			February	9.72	5.88	15.60	117	71	187	62	9.3
			March	8.65	4.78	13.42	94	52	147	64	7.5
			April	8.80	2.70	11.50	99	30	130	77	7.9
			May	6.33	1.67	8.00	69	18	87	79	5.5
			June	2.83	0.99	3.82	32	11	43	74	2.5
			July	1.16	0.31	1.47	13	3.3	16	79	1
	August	0.76	0.28	1.04	8.3	3	11	73	0.66		
	September	1.11	0.75	1.86	13	8.5	21	60	0.99		
14220500	LEWIS RIVER AT ARIEL, WA.	731	October	*	*	4.85	*	*	3080	*	*
			November	*	*	9.39	*	*	6150	*	*
			December	*	*	12.88	*	*	8170	*	*
			January	*	*	12.06	*	*	7650	*	*
			February	*	*	10.45	*	*	7270	*	*
			March	*	*	9.61	*	*	6090	*	*
			April	*	*	8.36	*	*	5480	*	*
			May	*	*	8.16	*	*	5170	*	*
			June	*	*	5.97	*	*	3910	*	*
			July	*	*	3.09	*	*	1960	*	*
	August	*	*	1.99	*	*	1260	*	*		
	September	*	*	2.72	*	*	1780	*	*		

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14221500	CEDAR CREEK NEAR ARIEL, WA.	40.8	October	0.87	0.55	1.42	31	19	50	61	0.75
			November	3.16	1.87	5.03	116	68	184	63	2.8
			December	7.59	3.29	10.88	268	117	385	70	6.6
			January	8.34	4.51	12.85	295	160	455	65	7.2
			February	5.61	2.88	8.49	218	112	330	66	5.3
			March	5.30	1.36	6.66	188	48	236	80	4.6
			April	3.98	0.96	4.94	146	35	181	81	3.6
			May	2.45	0.41	2.86	87	14	101	86	2.1
			June	1.30	0.36	1.65	47	13	60	79	1.2
			July	0.71	0.10	0.81	25	3.5	28	88	0.61
			August	0.38	0.08	0.46	13	3	16	82	0.33
			September	0.37	0.10	0.48	14	3.7	17	79	0.34
14222500	EAST FORK LEWIS RIVER NEAR HEISSON, WA.	125	October	1.54	1.67	3.21	167	181	348	48	1.3
			November	5.29	4.39	9.67	592	492	1080	55	4.7
			December	7.52	6.01	13.53	815	652	1470	56	6.5
			January	7.42	5.50	12.93	805	597	1400	57	6.4
			February	6.39	4.30	10.70	761	512	1270	60	6.1
			March	7.06	3.26	10.33	766	354	1120	68	6.1
			April	6.23	2.08	8.31	698	233	930	75	5.6
			May	4.21	1.25	5.46	456	135	592	77	3.7
			June	2.23	0.90	3.12	249	100	350	71	2
			July	1.12	0.23	1.35	122	25	146	83	0.97
			August	0.66	0.12	0.77	71	13	84	85	0.57
			September	0.68	0.34	1.03	77	39	115	67	0.61
14223000	KALAMA RIVER NEAR KALAMA, WA.	179	October	2.51	1.34	3.84	389	207	597	65	2.2
			November	4.89	2.47	7.36	785	395	1180	66	4.4
			December	7.24	4.01	11.24	1120	622	1750	64	6.3
			January	8.81	3.50	12.31	1370	543	1910	72	7.6
			February	7.19	3.10	10.29	1230	528	1750	70	6.8
			March	7.14	2.83	9.96	1110	439	1550	72	6.2
			April	7.54	1.67	9.22	1210	269	1480	82	6.8
			May	5.56	0.96	6.52	863	149	1010	85	4.8
			June	3.82	0.52	4.34	614	83	696	88	3.4
			July	2.36	0.11	2.47	366	18	384	95	2
			August	1.64	0.06	1.70	255	8.7	263	97	1.4
			September	1.65	0.49	2.14	265	79	343	77	1.5
14223500	KALAMA RIVER BELOW ITALIAN CREEK NEAR KALAMA, WA.	198	October	2.57	1.83	4.40	441	314	755	58	2.2
			November	5.30	3.67	8.98	941	652	1590	59	4.8
			December	8.32	4.54	12.86	1430	780	2210	65	7.2
			January	8.53	4.99	13.52	1470	857	2320	63	7.4
			February	7.35	3.75	11.10	1390	707	2090	66	7
			March	7.61	2.72	10.33	1310	467	1770	74	6.6
			April	6.98	1.48	8.46	1240	263	1500	82	6.3
			May	5.46	1.04	6.50	937	179	1120	84	4.7
			June	3.48	0.56	4.04	618	98	717	86	3.1
			July	2.30	0.15	2.45	395	26	421	94	2
			August	1.69	0.14	1.83	290	24	314	92	1.5
			September	1.53	0.35	1.87	271	61	332	82	1.4

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14224000	OHANAPECOSH RIVER NEAR LEWIS, WA.	101	October	1.73	0.49	2.21	151	43	194	78	1.5
			November	4.27	4.61	8.88	387	417	804	48	3.8
			December	3.47	1.18	4.65	304	103	407	75	3
			January	2.60	1.68	4.28	228	147	375	61	2.3
			February	2.56	0.44	3.00	246	42	288	85	2.4
			March	*	*	5.39	*	*	472	*	*
			April	*	*	6.72	*	*	608	*	*
			May	*	*	12.53	*	*	1100	*	*
			June	*	*	16.52	*	*	1500	*	*
			July	*	*	9.74	*	*	854	*	*
August	2.39	0.28	2.67	209	25	234	89	2.1			
September	1.46	0.39	1.85	132	36	168	79	1.3			
14224500	CLEAR FK COWLITZ RIVER NEAR PACKWOOD, WA.	56.5	October	1.58	0.83	2.41	77	41	118	66	1.4
			November	3.07	2.35	5.41	155	119	274	57	2.7
			December	3.60	2.11	5.72	177	104	280	63	3.1
			January	3.01	1.35	4.36	148	66	214	69	2.6
			February	2.46	0.39	2.85	132	21	153	86	2.3
			March	*	*	4.45	*	*	218	*	*
			April	*	*	5.55	*	*	281	*	*
			May	*	*	9.14	*	*	448	*	*
			June	*	*	9.45	*	*	478	*	*
			July	*	*	4.97	*	*	244	*	*
August	1.96	0.10	2.06	96	4.8	101	95	1.7			
September	1.40	0.23	1.63	71	12	83	86	1.3			
14225500	LAKE CREEK NEAR PACKWOOD, WA.	19.2	October	*	*	2.68	*	*	45	*	*
			November	*	*	3.58	*	*	62	*	*
			December	*	*	4.64	*	*	77	*	*
			January	*	*	3.83	*	*	64	*	*
			February	*	*	2.95	*	*	54	*	*
			March	*	*	2.68	*	*	45	*	*
			April	*	*	3.47	*	*	60	*	*
			May	*	*	6.33	*	*	105	*	*
			June	*	*	8.66	*	*	149	*	*
			July	*	*	6.41	*	*	107	*	*
August	*	*	3.20	*	*	53	*	*			
September	*	*	2.28	*	*	39	*	*			
14226000	LAKE CREEK AT MOUTH, NEAR PACKWOOD, WA.	26.5	October	*	*	1.47	*	*	34	*	*
			November	*	*	3.01	*	*	71	*	*
			December	*	*	3.45	*	*	79	*	*
			January	*	*	3.68	*	*	85	*	*
			February	*	*	2.65	*	*	67	*	*
			March	*	*	3.04	*	*	70	*	*
			April	*	*	2.60	*	*	62	*	*
			May	*	*	3.54	*	*	81	*	*
			June	*	*	5.04	*	*	120	*	*
			July	*	*	3.38	*	*	78	*	*
August	*	*	1.87	*	*	43	*	*			
September	*	*	1.40	*	*	33	*	*			

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14226500	COWLITZ RIVER AT PACKWOOD, WA.	287	October	*	*	3.18	*	*	793	*	*
			November	*	*	6.18	*	*	1590	*	*
			December	*	*	6.91	*	*	1720	*	*
			January	*	*	6.14	*	*	1530	*	*
			February	*	*	5.18	*	*	1410	*	*
			March	*	*	4.86	*	*	1210	*	*
			April	*	*	6.65	*	*	1710	*	*
			May	*	*	11.27	*	*	2810	*	*
			June	*	*	12.05	*	*	3100	*	*
			July	*	*	7.45	*	*	1860	*	*
14230000	JOHNSON CREEK NEAR PACKWOOD, WA.	50	October	1.52	0.52	2.04	66	22	89	75	1.3
			November	2.61	1.69	4.30	117	76	193	61	2.3
			December	2.96	2.54	5.50	128	110	238	54	2.6
			January	3.13	2.37	5.50	136	103	238	57	2.7
			February	2.69	0.84	3.54	128	40	168	76	2.6
			March	*	*	4.10	*	*	178	*	*
			April	*	*	4.92	*	*	220	*	*
			May	*	*	8.48	*	*	368	*	*
			June	*	*	9.08	*	*	407	*	*
			July	*	*	4.19	*	*	182	*	*
14232500	CISPUS RIVER NEAR RANDLE, WA.	321	October	1.52	0.50	2.02	424	139	563	75	1.3
			November	2.62	1.63	4.25	755	469	1220	62	2.4
			December	3.47	2.35	5.82	967	653	1620	60	3
			January	3.33	1.82	5.15	928	507	1440	65	2.9
			February	3.14	1.51	4.65	959	463	1420	67	3
			March	*	*	4.66	*	*	1300	*	*
			April	*	*	5.99	*	*	1720	*	*
			May	*	*	8.72	*	*	2430	*	*
			June	*	*	7.11	*	*	2050	*	*
			July	3.32	0.31	3.63	924	87	1010	91	2.9
14233400	COWLITZ RIVER NEAR RANDLE, WA.	1030	October	1.52	0.76	2.28	1360	677	2040	67	1.3
			November	2.94	2.20	5.14	2710	2030	4740	57	2.6
			December	3.86	3.01	6.87	3450	2690	6130	56	3.3
			January	3.72	2.64	6.35	3320	2360	5680	59	3.2
			February	3.54	2.14	5.68	3470	2100	5570	62	3.4
			March	*	*	5.18	*	*	4630	*	*
			April	*	*	6.26	*	*	5780	*	*
			May	*	*	9.05	*	*	8080	*	*
			June	*	*	8.09	*	*	7470	*	*
			July	3.83	0.66	4.48	3420	585	4010	85	3.3
August	2.04	0.16	2.20	1820	143	1970	93	1.8			
September	1.38	0.26	1.63	1270	235	1510	84	1.2			

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
14233500	COWLITZ RIVER NEAR KOSMOS, WA.	1040	October	*	*	2.29	*	*	2070	*	*
			November	*	*	5.29	*	*	4930	*	*
			December	*	*	7.03	*	*	6340	*	*
			January	*	*	6.48	*	*	5850	*	*
			February	*	*	5.97	*	*	5910	*	*
			March	*	*	5.27	*	*	4760	*	*
			April	*	*	6.21	*	*	5790	*	*
			May	*	*	8.89	*	*	8020	*	*
			June	*	*	7.84	*	*	7310	*	*
			July	*	*	4.37	*	*	3940	*	*
			August	*	*	2.14	*	*	1930	*	*
			September	*	*	1.61	*	*	1500	*	*
14235000	COWLITZ RIVER AT MOSSYROCK, WA.	1162	October	1.73	1.15	2.88	1740	1160	2900	60	1.5
			November	3.14	2.28	5.42	3270	2380	5650	58	2.8
			December	4.15	2.96	7.10	4180	2980	7160	58	3.6
			January	3.93	2.04	5.97	3960	2060	6010	66	3.4
			February	3.38	1.81	5.19	3740	2000	5740	65	3.2
			March	*	*	5.20	*	*	5240	*	*
			April	*	*	6.32	*	*	6590	*	*
			May	*	*	8.74	*	*	8810	*	*
			June	*	*	7.77	*	*	8090	*	*
			July	3.97	0.59	4.57	4000	597	4600	87	3.4
			August	1.99	0.11	2.10	2000	112	2110	95	1.7
			September	1.28	0.18	1.45	1330	182	1510	88	1.1
14235500	WEST FORK TILTON RIVER NEAR MORTON, WA.	16.4	October	3.47	3.03	6.50	49	43	92	53	3
			November	6.83	5.76	12.58	100	85	185	54	6.1
			December	8.59	7.39	15.98	122	105	227	54	7.5
			January	8.72	6.38	15.10	124	91	215	58	7.6
			February	8.13	4.30	12.42	127	67	194	65	7.7
			March	6.73	3.08	9.81	96	44	140	69	5.8
			April	8.33	3.06	11.40	123	45	167	73	7.5
			May	6.12	1.69	7.81	87	24	111	78	5.3
			June	2.77	0.81	3.59	41	12	53	77	2.5
			July	1.29	0.17	1.46	18	2.4	21	89	1.1
			August	0.82	0.19	1.01	12	2.7	14	81	0.71
			September	1.03	0.63	1.65	15	9.2	24	62	0.92
14236200	TILTON R ABOVE BEAR CANYON CREEK NEAR CINEBAR, WA.	141	October	1.70	1.53	3.23	208	187	396	53	1.5
			November	5.33	4.81	10.14	674	608	1280	53	4.8
			December	7.43	5.31	12.74	909	649	1560	58	6.4
			January	6.98	5.85	12.83	853	715	1570	54	6.1
			February	6.35	4.26	10.61	852	572	1420	60	6
			March	6.42	2.84	9.26	785	347	1130	69	5.6
			April	6.20	2.11	8.31	783	267	1050	75	5.6
			May	4.51	1.20	5.72	552	147	699	79	3.9
			June	2.46	0.81	3.26	310	102	412	75	2.2
			July	1.32	0.28	1.60	161	34	196	83	1.1
			August	0.82	0.16	0.98	100	20	120	84	0.71
			September	0.90	0.48	1.38	114	60	174	66	0.81

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
14236400	CINNABAR CREEK NEAR CINEBAR, WA.	4.55	October	3.13	1.24	4.37	12	4.9	17	72	2.7
			November	6.49	5.15	11.64	26	21	47	56	5.8
			December	7.35	3.75	11.10	29	15	44	66	6.4
			January	8.21	3.51	11.72	32	14	46	70	7.1
			February	7.66	2.96	10.61	33	13	46	72	7.3
			March	7.53	1.69	9.21	30	6.7	36	82	6.5
			April	6.80	2.55	9.35	28	10	38	73	6.1
			May	5.67	1.19	6.86	22	4.7	27	83	4.9
			June	3.32	0.72	4.05	14	3	17	82	3
			July	2.24	0.17	2.41	8.8	0.67	9.5	93	1.9
			August	1.67	0.27	1.93	6.6	1	7.6	86	1.4
			September	1.85	0.74	2.59	7.5	3	11	71	1.7
14236500	TILTON RIVER NEAR CINEBAR, WA.	156	October	2.35	1.89	4.23	317	255	573	55	2
			November	5.26	3.96	9.22	736	554	1290	57	4.7
			December	7.84	5.73	13.57	1060	775	1840	58	6.8
			January	6.96	4.02	10.98	942	543	1490	63	6
			February	6.44	3.91	10.35	956	581	1540	62	6.1
			March	6.02	2.54	8.56	815	344	1160	70	5.2
			April	6.58	1.94	8.52	920	272	1190	77	5.9
			May	4.85	1.26	6.11	656	170	826	79	4.2
			June	2.98	0.79	3.77	417	110	527	79	2.7
			July	1.52	0.23	1.74	205	30	236	87	1.3
			August	0.88	0.10	0.99	119	14	133	90	0.77
			September	0.90	0.34	1.24	126	47	174	73	0.81
14237000	KLICKITAT CREEK AT MOSSYROCK, WA.	3.29	October	0.61	0.34	0.96	1.7	0.98	2.7	64	0.53
			November	2.82	1.15	3.97	8.3	3.4	12	71	2.5
			December	5.74	1.70	7.44	16	4.9	21	77	5
			January	6.53	2.03	8.57	19	5.8	24	76	5.7
			February	5.36	1.28	6.64	17	4	21	81	5.1
			March	4.66	0.79	5.44	13	2.2	16	86	4
			April	3.22	0.59	3.81	9.5	1.7	11	84	2.9
			May	1.66	0.37	2.03	4.7	1.1	5.8	82	1.4
			June	0.73	0.26	0.99	2.1	0.77	2.9	74	0.65
			July	0.21	0.07	0.27	0.59	0.19	0.77	76	0.18
			August	0.06	0.05	0.11	0.17	0.13	0.31	56	0.05
			September	0.09	0.08	0.17	0.26	0.23	0.49	54	0.08
14237500	WINSTON CREEK NEAR SILVER LAKE, WA.	37.8	October	0.95	0.74	1.69	31	24	55	56	0.82
			November	2.85	2.04	4.89	97	69	166	58	2.6
			December	4.25	2.69	6.94	139	88	227	61	3.7
			January	4.68	2.95	7.63	153	97	250	61	4.1
			February	3.97	2.08	6.05	143	75	218	66	3.8
			March	3.76	1.35	5.11	123	44	168	74	3.3
			April	3.42	0.89	4.31	116	30	146	79	3.1
			May	1.93	0.54	2.47	63	18	81	78	1.7
			June	0.98	0.43	1.41	33	15	48	70	0.88
			July	0.49	0.12	0.61	16	4	20	80	0.42
			August	0.24	0.09	0.33	7.9	3	11	73	0.21
			September	0.27	0.15	0.43	9.3	5.2	14	64	0.25



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Station No.	Station Name	Drainage Area (mi <sup>2</sup> )	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft <sup>3</sup> /sec)	Mean Surface Runoff (ft <sup>3</sup> /sec)	Mean Streamflow (ft <sup>3</sup> /sec)	Mean BF as % of Streamflow	Mean Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )
14238000	COWLITZ RIVER BELOW MAYFIELD DAM, WA.	1400	October	*	*	2.87	*	*	3480	*	*
			November	*	*	5.79	*	*	7260	*	*
			December	*	*	8.18	*	*	9940	*	*
			January	*	*	7.14	*	*	8670	*	*
			February	*	*	6.11	*	*	8140	*	*
			March	*	*	5.35	*	*	6490	*	*
			April	*	*	5.38	*	*	6750	*	*
			May	*	*	6.36	*	*	7720	*	*
			June	*	*	5.81	*	*	7290	*	*
			July	*	*	3.59	*	*	4360	*	*
August	*	*	2.02	*	*	2450	*	*			
September	*	*	1.81	*	*	2280	*	*			
14239000	SALMON CREEK NEAR TOLEDO, WA.	77.6	October	0.38	0.46	0.84	25	31	56	45	0.33
			November	1.08	1.65	2.73	75	114	190	40	0.97
			December	2.17	3.26	5.43	146	219	365	40	1.9
			January	3.32	3.98	7.30	223	268	491	45	2.9
			February	1.54	2.25	3.79	114	166	280	41	1.5
			March	1.49	1.67	3.16	100	113	213	47	1.3
			April	1.05	0.94	1.99	73	65	138	53	0.94
			May	0.53	0.34	0.87	35	23	58	61	0.46
			June	0.18	0.30	0.48	12	21	33	37	0.16
			July	0.08	0.10	0.18	5.7	6.6	12	46	0.07
August	0.07	0.06	0.12	4.6	3.8	8.3	55	0.06			
September	0.08	0.17	0.25	5.4	12	17	32	0.07			
14241500	SOUTH FORK TOUTLE RIVER AT TOUTLE, WA.	120	October	2.14	1.66	3.81	223	173	396	56	1.9
			November	4.59	3.66	8.25	494	393	887	56	4.1
			December	6.63	4.30	10.93	690	447	1140	61	5.8
			January	5.88	3.13	9.00	612	325	937	65	5.1
			February	5.62	3.48	9.10	642	397	1040	62	5.4
			March	5.05	2.59	7.64	525	270	795	66	4.4
			April	5.54	1.33	6.87	596	143	739	81	5
			May	4.97	1.23	6.20	517	128	645	80	4.3
			June	3.28	0.70	3.99	353	75	429	82	2.9
			July	1.79	0.19	1.98	186	20	206	90	1.5
August	1.06	0.11	1.16	110	11	121	91	0.92			
September	1.02	0.27	1.29	109	29	139	79	0.91			
14242500	TOUTLE RIVER NEAR SILVER LAKE, WA.	474	October	1.57	1.00	2.57	647	409	1060	61	1.4
			November	3.35	2.56	5.90	1420	1090	2510	57	3
			December	5.01	3.74	8.75	2060	1540	3600	57	4.3
			January	5.14	3.12	8.26	2110	1280	3400	62	4.5
			February	4.32	2.23	6.56	1950	1010	2960	66	4.1
			March	4.59	1.87	6.46	1890	769	2660	71	4
			April	4.57	1.16	5.73	1940	493	2430	80	4.1
			May	4.48	0.92	5.40	1840	378	2220	83	3.9
			June	3.39	0.72	4.11	1440	305	1750	83	3
			July	2.03	0.19	2.22	834	78	912	91	1.8
August	1.18	0.11	1.29	485	44	530	92	1			
September	1.08	0.31	1.39	458	130	588	78	0.97			

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14243000	COWLITZ RIVER AT CASTLE ROCK, WA.	2238	October	*	*	2.42	*	*	4710	*	*
			November	*	*	5.38	*	*	10800	*	*
			December	*	*	7.89	*	*	15300	*	*
			January	*	*	7.23	*	*	14000	*	*
			February	*	*	5.99	*	*	12800	*	*
			March	*	*	5.55	*	*	10800	*	*
			April	*	*	5.21	*	*	10400	*	*
			May	*	*	5.61	*	*	10900	*	*
			June	*	*	4.89	*	*	9810	*	*
			July	*	*	2.83	*	*	5500	*	*
August	*	*	1.51	*	*	2940	*	*			
September	*	*	1.37	*	*	2740	*	*			
14243500	DELAMETER CREEK NEAR CASTLE ROCK, WA.	19.6	October	1.66	0.85	2.51	28	14	43	66	1.4
			November	4.51	3.44	7.95	79	60	140	57	4
			December	7.80	3.54	11.34	133	60	193	69	6.8
			January	8.20	3.79	11.99	139	64	204	68	7.1
			February	7.39	2.76	10.15	138	52	189	73	7
			March	6.34	2.30	8.64	108	39	147	73	5.5
			April	4.34	1.25	5.59	76	22	98	78	3.9
			May	2.22	0.29	2.51	38	4.9	43	89	1.9
			June	1.01	0.14	1.14	18	2.4	20	88	0.9
			July	0.48	0.05	0.53	8.2	0.82	9	91	0.42
August	0.32	0.07	0.39	5.4	1.2	6.6	81	0.27			
September	0.36	0.16	0.52	6.4	2.8	9.1	70	0.32			
14245000	COWEMAN RIVER NEAR KELSO, WA.	119	October	0.95	0.87	1.82	98	89	188	52	0.83
			November	2.65	2.25	4.90	283	240	523	54	2.4
			December	5.09	3.72	8.81	525	384	909	58	4.4
			January	5.22	3.73	8.95	539	385	924	58	4.5
			February	4.30	2.34	6.64	487	265	753	65	4.1
			March	4.28	2.06	6.34	441	213	654	67	3.7
			April	3.33	1.21	4.54	355	129	484	73	3
			May	2.13	0.52	2.65	220	53	273	80	1.8
			June	1.21	0.39	1.60	129	41	170	76	1.1
			July	0.70	0.11	0.81	72	12	83	86	0.6
August	0.46	0.11	0.56	47	11	58	81	0.4			
September	0.50	0.21	0.71	53	22	75	70	0.44			
14246000	ABERNATHY CREEK NEAR LONGVIEW, WA.	20.3	October	2.24	0.99	3.23	39	17	57	69	1.9
			November	4.86	2.87	7.73	88	52	141	63	4.4
			December	9.14	5.36	14.50	161	94	255	63	7.9
			January	8.59	3.87	12.47	151	68	219	69	7.5
			February	8.03	3.72	11.75	155	72	227	68	7.6
			March	7.41	3.09	10.50	130	54	185	71	6.4
			April	5.31	1.09	6.40	97	20	116	83	4.8
			May	2.23	0.27	2.50	39	4.7	44	89	1.9
			June	1.25	0.11	1.36	23	2	25	92	1.1
			July	0.77	0.07	0.84	14	1.1	15	92	0.67
August	0.56	0.09	0.65	9.9	1.6	11	86	0.49			
September	0.48	0.13	0.61	8.8	2.4	11	78	0.43			

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14246500	MILL CREEK NEAR CATHLAMET, WA.	27.6	October	1.36	0.66	2.02	33	16	48	67	1.2
			November	4.13	2.04	6.17	102	50	153	67	3.7
			December	7.38	3.67	11.05	177	88	265	67	6.4
			January	7.68	3.72	11.41	184	89	273	67	6.7
			February	7.54	3.78	11.32	198	99	297	67	7.2
			March	6.07	1.80	7.87	145	43	188	77	5.3
			April	4.21	0.58	4.79	104	14	118	88	3.8
			May	1.79	0.15	1.94	43	3.6	46	92	1.6
			June	1.10	0.10	1.20	27	2.5	30	92	0.99
			July	0.63	0.06	0.69	15	1.4	17	91	0.55
			August	0.40	0.05	0.45	9.6	1.2	11	89	0.35
			September	0.37	0.08	0.45	9.1	2	11	82	0.33
14247500	ELOCHOMAN RIVER NEAR CATHLAMET, WA.	65.8	October	2.15	1.82	3.97	122	104	226	54	1.9
			November	5.59	4.58	10.17	330	270	600	55	5
			December	8.31	5.82	14.13	474	332	806	59	7.2
			January	8.09	5.63	13.72	462	321	783	59	7
			February	7.31	4.57	11.88	458	286	744	62	7
			March	6.50	3.12	9.62	371	178	549	68	5.6
			April	4.57	1.87	6.44	270	110	380	71	4.1
			May	2.61	0.67	3.28	149	38	187	79	2.3
			June	1.48	0.32	1.79	87	19	106	82	1.3
			July	0.93	0.10	1.03	53	5.7	59	90	0.81
			August	0.63	0.13	0.76	36	7.1	43	83	0.55
			September	0.78	0.34	1.12	46	20	66	70	0.7
14248200	JIM CROW CREEK NEAR GRAYS RIVER, WA.	5.48	October	2.27	2.39	4.65	11	11	22	49	2
			November	6.67	4.91	11.58	33	24	57	58	6
			December	9.98	6.82	16.79	47	32	80	59	8.7
			January	10.24	7.93	18.16	49	38	86	56	8.9
			February	7.10	3.57	10.68	37	19	56	67	6.8
			March	6.09	3.61	9.70	29	17	46	63	5.3
			April	3.55	1.72	5.27	17	8.4	26	67	3.2
			May	1.65	0.56	2.21	7.9	2.7	11	75	1.4
			June	0.97	0.97	1.94	4.8	4.7	9.5	50	0.87
			July	0.60	0.27	0.87	2.8	1.3	4.1	69	0.52
			August	0.30	0.13	0.43	1.4	0.6	2	70	0.26
			September	0.61	0.51	1.11	3	2.5	5.5	55	0.54
14249000	GRAYS RIVER ABOVE SOUTH FK NEAR GRAYS RIVER, WA.	39.9	October	3.54	3.23	6.77	122	112	234	52	3.1
			November	7.36	7.73	15.09	263	276	540	49	6.6
			December	10.68	9.26	19.93	370	320	690	54	9.3
			January	10.82	10.96	21.78	374	379	754	50	9.4
			February	8.93	6.04	14.97	339	229	568	60	8.5
			March	8.86	6.37	15.24	307	221	527	58	7.7
			April	5.95	3.35	9.30	213	120	333	64	5.3
			May	3.40	1.13	4.53	118	39	157	75	2.9
			June	2.01	0.78	2.79	72	28	100	72	1.8
			July	1.34	0.30	1.64	46	10	57	82	1.2
			August	0.97	0.31	1.27	33	11	44	76	0.84
			September	1.27	1.01	2.27	45	36	81	56	1.1

## Appendix B. Monthly Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Drainage Area (mi2)	Water Year Month	Mean Baseflow (in)	Mean Surface Runoff (in)	Mean Streamflow (in)	Mean Baseflow (ft3/sec)	Mean Surface Runoff (ft3/sec)	Mean Streamflow (ft3/sec)	Mean BF as % of Streamflow	Mean Baseflow (ft3/sec/mi2)
14249500	GRAYS RIVER BELOW SOUTH FK NEAR GRAYS RIVER, WA.	60.3	October	4.38	4.57	8.96	229	239	468	49	3.8
			November	5.27	9.54	14.81	285	515	800	36	4.7
			December	9.98	8.55	18.53	522	447	969	54	8.7
			January	8.34	8.42	16.76	436	440	877	50	7.2
			February	8.57	4.97	13.55	492	285	777	63	8.2
			March	8.93	6.70	15.63	467	350	817	57	7.7
			April	6.46	5.64	12.10	349	305	654	53	5.8
			May	3.28	1.33	4.61	172	69	241	71	2.8
			June	2.19	0.72	2.91	119	39	157	75	2
			July	1.18	0.21	1.39	62	11	73	85	1
			August	0.79	0.28	1.07	41	15	56	74	0.68
			September	1.46	1.68	3.15	79	91	170	46	1.3
14250500	WEST FORK GRAYS RIVER NEAR GRAYS RIVER, WA.	15.2	October	4.89	3.13	8.02	64	41	106	61	4.2
			November	8.69	7.01	15.70	118	96	214	55	7.8
			December	11.18	7.30	18.48	147	96	244	60	9.7
			January	11.90	8.12	20.02	157	107	264	59	10
			February	9.74	6.30	16.03	141	91	232	61	9.3
			March	8.61	4.88	13.50	114	64	178	64	7.5
			April	5.71	2.47	8.18	78	34	111	70	5.1
			May	3.23	0.94	4.17	43	12	55	78	2.8
			June	2.10	0.78	2.88	29	11	39	73	1.9
			July	1.36	0.28	1.64	18	3.7	22	83	1.2
			August	1.11	0.55	1.66	15	7.3	22	67	0.97
			September	1.42	0.94	2.35	19	13	32	60	1.3

\* Not estimated due to significant regulation or snowmelt influence on streamflow

Appendix C. Annual Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Years of Data	Degree of Regulation	Median of Annual Streamflow (ft3/s)	Minimum of Annual Streamflow (ft3/s)	Maximum of Annual Streamflow (ft3/s)	Median of Annual Means - 7-Day (ft3/s)	Minimum of Annual Means - 7-Day (ft3/s)	Maximum of Annual Means - 7-Day (ft3/s)	Median of Annual Baseflow (ft3/s)	Minimum of Annual Baseflow (ft3/s)	Maximum of Annual Baseflow (ft3/s)	Median of Annual Baseflow (in)	Minimum of Annual Baseflow (in)	Maximum of Annual Baseflow (in)	Median of Annual Baseflow (ft3/sec/mi2)	Minimum of Annual Baseflow (ft3/sec/mi2)	Maximum of Annual Baseflow (ft3/sec/mi2)	Median of Annual Baseflow (as % of Total streamflow)	Minimum of Annual Baseflow (as % of Total streamflow)	Maximum of Annual Baseflow (as % of Total streamflow)
12009500	BEAR BRANCH NEAR NASELLE, WA.	12	None	84	62	105	6.3	4.7	11	57	42	74	66	49	86	4.8	3.6	6.3	68	59	74
12010000	NASELLE RIVER NEAR NASELLE, WA.	68	None	412	226	612	30	19	65	241	153	380	60	38	94	4.4	2.8	6.9	58	47	68
12010500	SALMON CREEK NEAR NASELLE, WA.	12	Low	113	92	152	4.3	1.4	9.9	66	55	93	55	46	77	4	3.4	5.7	58	55	73
12010700	SOUTH FORK NASELLE RIVER NEAR NASELLE, WA.	12	Low	129	70	181	3.7	1.4	5.8	75	48	111	57	36	85	4.2	2.7	6.2	58	47	68
12011000	NORTH NEMAH RIVER NEAR SOUTH BEND, WA.	13	None	116	61	144	8.9	5.2	19	82	43	102	61	33	77	4.5	2.4	5.7	71	59	74
12011200	WILLIAMS CREEK NEAR SOUTH BEND, WA.	11	None	64	31	89	9.8	7.1	14	47	26	69	68	38	100	5	2.8	7.4	73	64	85
12011500	WILLAPA RIVER AT LEBAM, WA.	23	Low	183	138	274	5.9	3	13	107	80	151	35	26	50	2.6	1.9	3.6	58	51	68
12012000	FORK CREEK NEAR LEBAM, WA.	17	Low	137	107	198	6.8	2.2	14	95	67	116	63	45	77	4.6	3.3	5.7	69	56	71
12013500	WILLAPA RIVER NEAR WILLAPA, WA.	42	Low	605	294	963	26	16	52	361	188	597	38	20	62	2.8	1.4	4.6	60	47	69
12014500	SOUTH FORK WILLAPA RIVER NEAR RAYMOND, WA.	18	Low	164	133	218	23	17	32	128	101	153	62	50	75	4.6	3.7	5.5	78	66	86
12015100	CLEARWATER CREEK NEAR RAYMOND, WA.	11	Low	25	17	30	3.9	3.2	5.1	18	14	24	63	46	83	4.6	3.4	6.1	72	68	84
12015200	SMITH CREEK NEAR RAYMOND, WA.	3	Low	275	224	284	8.1	7.4	21	155	150	187	36	35	44	2.7	2.6	3.2	56	56	67
12015500	NORTH RIVER NEAR BROOKLYN, WA.	12	Low	112	88	145	6.9	5.3	13	78	62	98	35	28	44	2.6	2.1	3.3	70	59	76
12016500	LITTLE NORTH RIVER NEAR COSMOPOLIS, WA.	3	Low	79	71	84	3	1.8	3.7	47	38	49	34	28	36	2.5	2	2.6	59	54	59
12017000	NORTH RIVER NEAR RAYMOND, WA.	52	Low	933	491	1610	49	23	98	577	319	911	36	20	56	2.6	1.5	4.2	62	48	73
12018000	NEWSKAH CREEK NEAR ABERDEEN, WA.	3	None	40	35	49	2.5	2.2	3.8	24	19	32	44	35	58	3.2	2.6	4.3	60	54	65
12018500	CHARLEY (CHARLIES) CREEK NEAR ABERDEEN, WA.	3	None	27	19	29	1.8	1.5	2.5	17	12	18	40	28	42	2.9	2.1	3.1	63	63	65
12020000	CHEHALIS RIVER NEAR DOTY, WA.	57	None	542	259	911	27	17	47	311	164	477	37	20	57	2.8	1.4	4.2	57	41	68
12020500	ELK CREEK NEAR DOTY, WA.	9	None	167	125	209	14	9.7	15	108	86	125	31	25	36	2.3	1.8	2.7	65	56	73
12020900	SOUTH FORK CHEHALIS RIVER NEAR BOISTFORT, WA.	14	Low	182	65	256	2.4	0.37	6.9	100	42	147	30	13	44	2.2	0.94	3.3	55	48	65
12021000	SOUTH FORK CHEHALIS RIVER AT BOISTFORT, WA.	10	Low	203	153	259	5.8	2.2	8.6	109	88	141	31	25	40	2.3	1.8	2.9	54	49	64
12024000	SOUTH FORK NEWAUKUM RIVER NEAR ONALASKA, WA.	18	Low	207	156	245	28	19	37	139	112	171	45	36	55	3.3	2.6	4	67	57	76
12024500	NORTH FORK NEWAUKUM RIVER NEAR FOREST, WA.	5	High	94	83	107	4.8	2.7	8.8	63	59	82	27	26	35	2	1.9	2.6	67	63	77
12025000	NEWAUKUM RIVER NEAR CHEHALIS, WA.	56	Low	490	244	794	34	16	59	304	165	540	27	14	47	2	1.1	3.5	62	48	73
12025300	SALZER CREEK NEAR CENTRALIA, WA.	3	None	27	25	32	0.03	0.02	0.03	16	13	19	17	14	21	1.3	1	1.5	59	51	70
12025700	SKOOKUMCHUCK RIVER NEAR VAIL, WA.	29	None	190	103	285	22	14	28	118	70	193	40	24	66	2.9	1.7	4.8	62	50	72
12026000	SKOOKUMCHUCK RIVER NEAR CENTRALIA, WA.	33	None	252	132	364	26	19	44	151	89	276	33	20	61	2.4	1.4	4.5	60	52	83
12026150	SKOOKUMCHUCK R BLW BLDY RN CR N CENTRALIA, WA.	28	High	248	119	390	85	18	113	*	*	*	*	*	*	*	*	*	*	*	*
12026400	SKOOKUMCHUCK RIVER NEAR BUCODA, WA.	29	High	341	148	570	68	24	113	*	*	*	*	*	*	*	*	*	*	*	*
12027000	LINCOLN CREEK NEAR ROCHESTER, WA.	6	Low	72	56	97	1	0.67	2.1	50	39	58	35	27	40	2.6	2	3	69	60	75
12027500	CHEHALIS RIVER NEAR GRAND MOUND, WA.	68	Moderate	2760	1120	4440	165	91	311	1540	702	2560	23	11	39	1.7	0.79	2.9	56	42	68
12029000	BLACK RIVER AT LITTLE ROCK, WA.	6	Low	159	116	228	10	6.5	15	120	76	155	26	16	33	1.9	1.2	2.4	75	63	76
12030000	ROCK CREEK AT CEDARVILLE, WA.	27	Low	86	67	116	1.3	0.51	3.4	57	38	78	31	21	43	2.3	1.5	3.1	66	52	79
12030900	PORTER CREEK AT PORTER, WA.	4	Low	133	118	140	12	9.2	18	90	71	96	35	27	37	2.6	2	2.7	68	53	73
12031000	CHEHALIS RIVER AT PORTER, WA.	42	Moderate	4140	1650	6060	295	169	494	2280	1050	3230	24	11	34	1.8	0.81	2.5	55	44	74
12032500	CLOQUALLUM RIVER AT ELMA, WA.	28	Low	272	205	367	24	13	38	174	131	233	36	27	49	2.7	2	3.6	64	56	75
12033000	CHEHALIS RIVER AT SOUTH ELMA, WA.	5	Low	4760	4100	5850	284	214	454	2850	2230	3330	27	21	32	2	1.6	2.3	60	49	61
12034200	EAST FORK SATSOP RIVER NEAR ELMA, WA.	14	None	377	292	463	76	67	99	291	230	343	60	47	71	4.4	3.5	5.2	77	70	84
12035000	SATSOP RIVER NEAR SATSOP, WA.	68	None	1980	1200	3240	240	154	365	1210	760	1830	55	35	83	4	2.5	6.1	61	47	70
12035400	WYNOOCHEE RIVER NEAR GRIDDALE, WA.	30	High	537	331	716	193	52	206	*	*	*	*	*	*	*	*	*	*	*	*
12035450	BIG CREEK NEAR GRIDDALE, WA.	24	None	108	74	174	11	7.3	17	68	46	103	96	65	146	7.1	4.8	11	63	49	68
12035500	WYNOOCHEE RIVER AT OXBOW, NEAR ABERDEEN, WA.	27	None	775	512	1050	105	81	153	500	308	620	96	59	119	7.1	4.4	8.8	65	48	78
12036000	WYNOOCHEE RIVER ABV SAVE CREEK, NEAR ABERDEEN, WA.	45	High	892	564	1180	222	96	300	*	*	*	*	*	*	*	*	*	*	*	*
12036500	WYNOOCHEE RIVER NEAR MONTESANO, WA.	7	None	1110	707	1270	111	103	166	731	471	801	89	57	97	6.5	4.2	7.2	66	63	69
12036650	ANDERSON CREEK NEAR MONTESANO, WA.	13	None	15	8.6	21	0.02	0	0.43	9.1	4.9	14	46	25	69	3.4	1.8	5.1	61	48	70
12037400	WYNOOCHEE RIVER ABOVE BLACK CR NR MONTESANO, WA.	40	High	1230	749	1910	139	3.2	219	*	*	*	*	*	*	*	*	*	*	*	*
12037500	WYNOOCHEE RIV BLW BLACK CR NEAR MONTESANO, WA.	7	High	1290	888	1530	86	57	138	836	515	1070	63	39	81	4.6	2.9	6	65	58	70
12039000	HUMPTULIPS RIVER NEAR HUMPTULIPS, WA.	38	None	1330	868	1880	149	86	210	805	486	1210	84	51	127	6.2	3.7	9.3	60	50	75
12039220	MOCLIPS RIVER AT MOCLIPS, WA.	6	None	200	141	285	8.8	4.2	14	87	67	111	34	26	43	2.5	1.9	3.2	44	39	47
12039300	NORTH FORK QUINALT RIVER NEAR AMANDA PARK, WA.	21	None	907	564	1150	154	110	236	567	383	732	104	70	134	7.6	5.2	9.9	63	52	72
12039500	QUINALT RIVER AT QUINALT LAKE, WA.	81	Low	2840	1790	3980	464	254	1100	1840	1100	2580	95	56	133	7	4.2	9.8	65	50	82
12039520	RAFT RIVER BLW RAINY CR NEAR QUEETS, WA.	6	None	530	391	861	44	40	57	203	164	343	36	29	61	2.7	2.2	4.5	38	37	42
12040000	CLEARWATER RIVER NEAR CLEARWATER, WA.	12	Low	1180	907	1360	101	64	119	649	429	848	63	42	82	4.6	3.1	6.1	55	47	62
12040500	QUEETS RIVER NEAR CLEARWATER, WA.	41	None	4080	2870	6540	492	303	909	2190	1520	3710	67	46	113	4.9	3.4	8.3	54	35	61

Appendix C. Annual Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Years of Data	Degree of Regulation	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum
				Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)
12040700	HOH RIVER BELOW MT. TOM CREEK NEAR FORKS, WA.	4	None	861	780	902	223	160	292	603	579	651	84	80	90	6.2	5.9	6.7	70	67	76
12040900	SOUTH FORK HOH RIVER NEAR FORKS, WA.	4	None	521	473	568	95	67	110	335	330	374	90	89	101	6.6	6.5	7.4	64	61	70
12041000	HOH RIVER NEAR FORKS, WA.	38	Moderate	2050	1400	2580	620	319	951	1440	966	1770	94	63	116	6.9	4.6	8.5	70	61	79
12041200	HOH RIVER AT U.S. HIGHWAY 101 NEAR FORKS, WA.	36	Low	2490	1640	3430	629	259	1020	1480	1150	2180	79	62	117	5.8	4.6	8.6	59	45	71
12041500	SOLEDUCK RIVER NEAR FAIRHOLM, WA.	45	None	615	359	832	79	53	168	394	222	566	64	36	92	4.7	2.7	6.8	64	55	76
12042000	SOLEDUCK RIVER NEAR BEAVER, WA.	3	None	683	641	824	47	36	47	465	352	488	55	41	57	4	3	4.2	68	55	68
12042800	BOGACHIEL RIVER NEAR FORKS, WA.	5	None	1010	724	1450	101	88	163	582	415	746	71	51	91	5.2	3.7	6.7	58	52	59
12043000	CALAWAH RIVER NEAR FORKS, WA.	20	None	988	665	1540	66	26	121	542	393	789	57	41	83	4.2	3.1	6.1	55	40	60
12043080	EAST FORK DICKEY RIVER NEAR LA PUSH, WA.	5	None	294	227	341	12	5.6	19	139	105	170	47	36	58	3.5	2.6	4.3	47	41	54
12043100	DICKEY RIVER NEAR LA PUSH, WA.	15	None	508	340	747	19	9.9	28	279	184	381	44	29	60	3.2	2.1	4.4	55	43	57
12043163	SOOES RIVER BLW MILLER CR NEAR OZETTE, WA.	10	None	207	135	264	11	6.4	19	117	83	148	50	35	63	3.6	2.6	4.6	57	52	62
12043300	HOKO RIVER NEAR SEKIU, WA.	14	None	415	292	586	20	13	30	218	154	333	58	41	88	4.3	3	6.5	53	45	61
12043430	EAST TWIN RIVER NEAR PYSHT, WA.	10	None	69	43	81	3.9	2.7	4.9	43	28	56	41	27	55	3	2	4	62	60	80
12044000	LYRE RIVER AT PIEDMONT, WA.	9	None	225	134	277	42	22	53	204	126	255	57	35	71	4.2	2.6	5.2	91	79	95
12044900	ELWHA RIVER ABOVE LAKE MILLS NEAR PORT ANGELES, WA.	3	None	1520	1330	1610	263	214	320	984	897	1090	68	61	75	5	4.5	5.5	65	65	68
12045500	ELWHA RIVER AT MCDONALD BR NEAR PRT ANGELES, WA.	82	Moderate	1520	860	2090	385	129	749	*	*	*	*	*	*	*	*	*	*	*	*
12047300	MORSE CREEK NEAR PORT ANGELES, WA.	10	Moderate	135	83	171	23	9.2	32	97	56	112	28	16	33	2.1	1.2	2.4	72	66	77
12047500	SIEBERT CREEK NEAR PORT ANGELES, WA.	17	None	15	7	36	2.5	2	3.8	10	5.6	24	9.1	4.9	21	0.67	0.36	1.6	67	51	80
12048000	DUNGENESS RIVER NEAR SEQUIM, WA.	67	None	380	197	544	108	65	206	*	*	*	*	*	*	*	*	*	*	*	*
12050500	SNOW CREEK NEAR MAYNARD, WA.	20	None	16	8.9	23	2.2	1.5	3.7	11	6.7	18	14	8.1	21	1	0.6	1.6	69	54	85
12051500	CHIMACUM CREEK NEAR CHIMACUM, WA.	5	Low	14	11	22	2.8	2.4	3.5	10	8.8	14	10	8.7	14	0.74	0.64	1	71	66	78
12052000	LITTLE QUILCENE RIVER NEAR QUILCENE, WA.	7	Low	52	45	70	8.4	6.7	21	44	37	53	25	21	30	1.9	1.6	2.2	85	75	88
12052210	BIG QUILCENE RIVER BELOW DIVERSION NR QUILCENE, WA.	3	Moderate	143	140	182	22	22	23	90	87	109	25	24	30	1.8	1.8	2.2	63	60	63
12053000	DOSEWALLIPS RIVER NEAR BRINNON, WA.	18	None	450	289	581	110	69	161	*	*	*	*	*	*	*	*	*	*	*	*
12054000	DUCKABUSH RIVER NEAR BRINNON, WA.	59	None	428	204	599	72	41	138	288	147	392	59	30	80	4.3	2.2	5.9	67	56	77
12054500	HAMMA HAMMA RIVER NEAR ELDON, WA.	19	None	358	258	459	57	42	117	266	196	337	70	52	89	5.2	3.8	6.6	74	63	79
12054600	JEFFERSON CREEK NEAR ELDON, WA.	12	None	150	106	191	14	9.6	20	106	73	137	67	46	86	4.9	3.4	6.4	71	62	77
12055000	HAMMA HAMMA RIVER N HOODSPORT WA.	4	None	423	332	670	35	27	91	312	238	440	51	39	71	3.7	2.8	5.3	74	66	75
12056500	NF SKOKOMISH RIVER BLW STRCSE RPDS NEAR HDSPRT, WA.	73	None	516	256	755	60	20	138	339	170	481	81	40	114	5.9	3	8.4	66	52	78
12057500	NORTH FORK SKOKOMISH RIVER NEAR HOODSPORT, WA.	54	High	780	137	1020	67	0	251	*	*	*	*	*	*	*	*	*	*	*	*
12058000	DEER MEADOW CREEK NEAR HOODSPORT, WA.	19	High	7.3	4.3	12	0.53	0.28	0.94	5.4	3.3	8.3	40	25	62	3	1.8	4.6	74	58	82
12058500	DOW CREEK NEAR HOODSPORT, WA.	4	High	9.2	7.8	12	0.2	0.1	0.31	6.6	5.2	8.2	53	43	67	3.9	3.1	4.9	72	55	81
12059500	N.F. SKOKOMISH RIVER NEAR POTLATCH, WA.	52	High	101	37	311	8.2	1.8	42	*	*	*	*	*	*	*	*	*	*	*	*
12059800	S.F. SKOKOMISH RIVER NEAR HOODSPORT, WA.	6	None	302	236	382	38	29	54	221	163	250	115	85	131	8.5	6.3	9.6	73	65	73
12060000	S.F. SKOKOMISH RIVER NEAR POTLATCH, WA.	26	None	620	333	832	82	40	120	412	210	533	85	43	111	6.3	3.2	8.1	66	54	81
12060500	SOUTH FORK SKOKOMISH RIVER NEAR UNION, WA.	55	None	752	424	1040	88	64	171	469	257	620	84	46	110	6.1	3.4	8.1	62	48	77
12061500	SKOKOMISH RIVER NEAR POTLATCH, WA.	54	High	1190	636	1760	168	105	261	*	*	*	*	*	*	*	*	*	*	*	*
12062500	PURDY CREEK NEAR UNION, WA.	5	Low	22	21	30	12	11	14	21	20	28	76	72	102	5.6	5.3	7.5	95	92	97
12063000	UNION RIVER NEAR BREMERTON, WA.	13	Moderate	12	9.2	17	0.59	0.37	5.1	8.2	5.4	11	35	23	47	2.6	1.7	3.4	68	53	90
12063500	UNION RIVER NEAR BELFAIR, WA.	12	Moderate	51	43	76	18	14	21	38	32	57	26	22	39	1.9	1.6	2.9	75	69	83
12065000	MISSION CREEK NEAR BELFAIR, WA.	6	None	11	8.5	16	0.2	0.06	0.24	8.1	4.6	11	25	14	34	1.8	1	2.5	74	49	85
12065500	GOLD CREEK NEAR BREMERTON, WA.	24	None	5.6	4	8.8	0.43	0.24	0.77	4	3	5.8	36	27	52	2.6	2	3.8	71	57	81
12066000	TAHUYA RIVER NEAR BREMERTON, WA.	11	Low	22	16	32	0.2	0.1	1.5	13	8.8	19	30	20	43	2.2	1.5	3.2	59	49	77
12067000	PANTHER CREEK NEAR BREMERTON, WA.	8	None	2.9	2.5	3.7	0	0	0	2.1	1.3	2.7	29	17	37	2.1	1.2	2.7	72	51	81
12067500	TAHUYA RIVER NEAR BELFAIR, WA.	11	Low	48	33	69	0	0	0.17	31	18	39	28	16	35	2	1.2	2.6	65	54	73
12068500	DEWATTO RIVER NEAR DEWATTO, WA.	23	None	71	47	104	13	10	16	50	36	76	37	26	56	2.7	1.9	4.1	70	62	79
12069550	BIG BEEF CREEK NEAR SEABECK, WA.	14	High	40	15	59	3.4	2.7	5.5	*	*	*	*	*	*	*	*	*	*	*	*
12070000	DOGFISH CREEK NEAR POULSBO, WA.	25	Low	8.7	6.6	12	2.8	1.8	3.6	6.5	5.6	8.9	17	15	24	1.3	1.1	1.7	75	58	85
12072000	CHICO CREEK NEAR BREMERTON, WA.	16	High	36	20	58	1	0.17	2	*	*	*	*	*	*	*	*	*	*	*	*
12072500	BLACKJACK CREEK AT PORT ORCHARD, WA.	3	Low	22	20	26	8.5	7.6	8.9	17	15	20	16	14	19	1.2	1	1.4	77	74	77
12073000	BURLEY CREEK AT BURLEY, WA.	8	Low	27	24	37	14	11	17	22	20	31	28	25	40	2.1	1.8	2.9	81	79	85
12073500	HUGE CREEK NEAR WAUNA, WA.	42	None	11	5.9	17	4	2.8	5.1	8.3	5	13	17	10	28	1.3	0.77	2.1	75	63	91
12076500	GOLDSBOROUGH CREEK NEAR SHELTON, WA.	20	None	107	79	163	20	16	25	83	60	126	29	21	44	2.1	1.5	3.2	78	66	83
12078000	SKOOKUM CREEK AT KAMILCHE, WA.	7	Low	49	41	74	2	1.3	2.9	32	31	51	27	26	43	2	1.9	3.2	65	66	78

**Appendix C. Annual Summary Statistics for Baseflow and Streamflow**

Station No.	Station Name	Years of Data	Degree of Regulation	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum
				Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	Annual Means - Baseflow (ft3/s)	of Annual Means - Baseflow (ft3/s)	of Annual Means - Baseflow (ft3/s)	Annual Means - Baseflow (in)	of Annual Means - Baseflow (in)	of Annual Means - Baseflow (in)	Annual Means - Baseflow (ft3/sec/mi2)	of Annual Means - Baseflow (ft3/sec/mi2)	of Annual Means - Baseflow (ft3/sec/mi2)	Annual Means - Baseflow (as % of Total streamflow)	of Annual Means - Baseflow (as % of Total streamflow)	of Annual Means - Baseflow (as % of Total streamflow)
12078400	KENNEDY CREEK NEAR KAMILCHE, WA.	11	Low	61	47	78	2.7	1.8	3.7	45	35	55	35	27	43	2.6	2	3.2	74	63	81
12079000	DESCHUTES RIVER NEAR RAINIER, WA.	37	Low	258	156	407	29	20	43	160	86	306	24	13	46	1.8	0.96	3.4	62	50	75
12080000	DESCHUTES RIVER NEAR OLYMPIA, WA.	15	Low	404	279	518	87	71	111	292	219	391	25	19	33	1.8	1.4	2.4	72	69	81
12080010	DESCHUTES RIVER AT E ST BRIDGE AT TUMWATER, WA.	22	Low	402	236	576	84	53	111	283	156	443	24	13	37	1.7	0.96	2.7	70	62	81
12081000	WOODLAND CR NEAR OLYMPIA, WA.	21	High	24	18	44	11	8.4	14	23	17	41	13	9.3	23	0.92	0.69	1.7	96	90	97
12082500	NISQUALLY RIVER NEAR NATIONAL, WA.	55	Low	787	495	1190	232	116	355	*	*	*	*	*	*	*	*	*	*	*	*
12083000	MINERAL CREEK NEAR MINERAL, WA.	55	None	367	181	527	28	15	67	231	125	357	42	23	64	3.1	1.7	4.7	63	50	75
12083500	EAST CREEK NEAR ELBE, WA.	5	Low	66	45	73	3	1.8	6.2	36	27	50	43	32	60	3.2	2.3	4.4	55	50	68
12084000	NISQUALLY RIVER NEAR ALDER, WA.	13	None	1110	701	1680	255	160	361	824	533	1020	44	29	55	3.3	2.1	4	74	53	76
12084500	LITTLE NISQUALLY RIVER NEAR ALDER, WA.	22	Low	116	72	177	6.7	3.4	10	75	46	117	36	22	57	2.7	1.6	4.2	65	55	73
12086500	NISQUALLY RIVER AT LA GRANDE, WA.	70	High	1440	858	2100	518	10	866	*	*	*	*	*	*	*	*	*	*	*	*
12087000	MASHEL RIVER NEAR LA GRANDE, WA.	22	Low	226	128	337	11	5.1	41	140	72	196	24	12	33	1.7	0.89	2.4	62	48	74
12088000	OHOP CREEK NEAR EATONVILLE, WA.	39	Low	67	33	98	5.6	3.3	12	45	22	69	18	8.5	27	1.3	0.63	2	67	50	77
12088400	NISQUALLY RIVER ABV POWELL CR NEAR MCKENNA, WA.	10	High	1860	1150	2570	674	441	873	*	*	*	*	*	*	*	*	*	*	*	*
12088500	NISQUALLY RIVER NEAR MCKENNA, WA.	21	High	1830	1040	2540	475	216	777	*	*	*	*	*	*	*	*	*	*	*	*
12089000	TANWAX CREEK NEAR MCKENNA, WA.	5	None	32	30	37	1.3	0.8	1.7	27	25	30	14	13	16	1	0.96	1.1	84	78	83
12089500	NISQUALLY RIVER AT MCKENNA, WA	40	High	1280	711	2240	358	27	500	*	*	*	*	*	*	*	*	*	*	*	*
12090200	MUCK CREEK AT ROY, WA.	15	Moderate	65	29	105	0	0	1.9	51	25	84	8	3.9	13	0.59	0.29	0.97	78	51	90
12090400	NORTH FORK CLOVER CREEK NEAR PARKLAND, WA.	4	None	9.3	4.2	12	0	0	0	2.7	2	6.8	5.9	4.3	15	0.43	0.31	1.1	29	29	57
12090500	CLOVER CREEK NEAR TILlicUM, WA.	10	Low	55	18	82	0.58	0	5.6	46	12	62	8.5	2.3	11	0.62	0.17	0.84	84	52	95
12091040	CHAMBERS CR ABV FLETT CR NEAR STEILACOOM, WA.	5	Moderate	83	71	99	22	18	23	*	*	*	*	*	*	*	*	*	*	*	*
12091070	FLETT CREEK BELOW FLETT SPRINGS AT TACOMA, WA.	6	High	6.8	2.7	8.1	0.72	0.23	0.99	6.3	2.5	7.5	13	5	15	0.94	0.37	1.1	93	92	94
12091100	FLETT CREEK AT TACOMA, WA.	27	High	10	2.9	21	0.74	0.37	4.2	*	*	*	*	*	*	*	*	*	*	*	*
12091180	LEACH CREEK AT HOLDING POND, AT FIRCREST, WA.	18	High	4.3	2.9	5.1	1.2	0.53	1.6	*	*	*	*	*	*	*	*	*	*	*	*
12091200	LEACH CREEK NEAR FIRCREST, WA.	37	High	4.4	2.6	8.1	1.5	0.71	3.1	*	*	*	*	*	*	*	*	*	*	*	*
12091300	LEACH CR NEAR STEILACOOM, WA.	33	High	10	7.5	16	5.1	3.8	7.7	*	*	*	*	*	*	*	*	*	*	*	*
12091500	CHAMBERS CR BLW LEACH CR, NEAR STEILACOOM, WA.	24	Low	113	60	184	39	26	58	99	57	166	13	7.4	22	0.95	0.55	1.6	88	87	97
12091700	JUDD CREEK NEAR BURTON, WA.	7	Low	5.8	4.3	8	1.2	1	1.6	3.8	3.4	6	12	11	19	0.85	0.78	1.4	66	63	82
12092000	PUYALLUP RIVER NEAR ELECTRON, WA.	69	None	522	379	664	179	104	280	*	*	*	*	*	*	*	*	*	*	*	*
12093000	KAPOWSIN CREEK NEAR KAPOWSIN, WA.	21	None	49	25	72	3	0.96	7.3	38	19	56	20	9.8	29	1.5	0.72	2.2	78	64	86
12093500	PUYALLUP RIVER NEAR ORTING, WA.	65	Low	705	465	1170	222	66	397	505	373	749	40	29	59	2.9	2.2	4.4	72	64	81
12093900	CARBON RIVER AT FAIRFAX, WA.	11	Low	452	316	551	129	83	186	*	*	*	*	*	*	*	*	*	*	*	*
12094000	CARBON RIVER NEAR FAIRFAX, WA.	53	Low	428	276	665	120	42	195	*	*	*	*	*	*	*	*	*	*	*	*
12094400	SO PRAIRIE CREEK NEAR ENUMCLAW, WA.	4	None	109	83	116	20	18	26	77	67	82	47	40	50	3.5	3	3.7	71	67	81
12095000	SOUTH PRAIRIE CREEK AT SOUTH PRAIRIE, WA.	32	Low	243	142	338	37	25	71	162	98	209	28	17	36	2	1.2	2.6	67	53	76
12096500	PUYALLUP RIVER AT ALDERTON, WA.	24	Low	1640	1160	2200	496	156	741	1170	829	1570	36	26	49	2.7	1.9	3.6	71	64	80
12096600	WHITE RIVER NEAR GREENWATER, WA	6	Low	120	109	139	28	24	33	*	*	*	*	*	*	*	*	*	*	*	*
12097000	WHITE RIVER AT GREENWATER, WA.	46	Low	879	558	1220	289	147	403	*	*	*	*	*	*	*	*	*	*	*	*
12097500	GREENWATER RIVER AT GREENWATER, WA.	52	None	219	92	328	36	24	61	*	*	*	*	*	*	*	*	*	*	*	*
12097850	WHITE RIVER BLW CLEARWATER RIVER NR BUCKLEY WA.	15	None	1240	956	1750	363	263	605	*	*	*	*	*	*	*	*	*	*	*	*
12098500	WHITE RIVER NEAR BUCKLEY, WA.	63	Moderate	1430	908	2090	418	208	573	*	*	*	*	*	*	*	*	*	*	*	*
12099600	BOISE CR. AT BUCKLEY, WA.	19	High	31	23	50	5.1	2.4	8.8	*	*	*	*	*	*	*	*	*	*	*	*
12100000	WHITE RIVER AT BUCKLEY, WA.	20	High	467	200	1230	90	37	145	*	*	*	*	*	*	*	*	*	*	*	*
12100496	WHITE R. NR. AUBURN, WA.	8	High	666	243	1410	153	134	199	*	*	*	*	*	*	*	*	*	*	*	*
12100500	WHITE RIVER NEAR SUMNER, WA.	25	High	610	219	999	63	37	103	*	*	*	*	*	*	*	*	*	*	*	*
12101500	PUYALLUP RIVER AT PUYALLUP, WA.	82	High	3330	2090	4930	1120	507	1630	2350	1640	3270	34	23	47	2.5	1.7	3.5	71	58	81
12102140	CLEAR CR AT PIONEER WAY BLW HATCHERY NR TACOMA, WA.	4	Moderate	11	10	15	7.7	5.8	8	9.4	8.9	12	41	39	53	3	2.9	3.9	85	76	90
12103400	GREEN RIVER BLW INTAKE CR NEAR LESTER, WA.	10	None	132	72	176	13	10	16	*	*	*	*	*	*	*	*	*	*	*	*
12103500	SNOW CREEK NEAR LESTER, WA.	19	None	68	49	89	6.4	3.4	9	*	*	*	*	*	*	*	*	*	*	*	*
12104000	FRIDAY CREEK NEAR LESTER, WA.	31	Low	28	16	37	2.8	1.4	5	*	*	*	*	*	*	*	*	*	*	*	*
12104500	GREEN RIVER NEAR LESTER, WA.	45	None	380	219	588	36	21	62	*	*	*	*	*	*	*	*	*	*	*	*
12104700	GREEN CANYON CREEK NEAR LESTER, WA.	10	None	13	8.5	15	1.8	1.5	2.2	9.2	6.8	12	39	29	50	2.9	2.1	3.7	71	67	80
12105000	SMAY CREEK NEAR LESTER, WA.	23	None	52	37	70	7.6	4.3	12	*	*	*	*	*	*	*	*	*	*	*	*
12105500	CHARLEY CREEK NEAR EAGLE GORGE, WA.	8	None	76	56	90	13	7.4	20	52	42	65	63	51	79	4.6	3.8	5.8	68	66	78

### Appendix C. Annual Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Years of Data	Degree of Regulation	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum
				Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)
12105700	N.F. GREEN RIVER NEAR PALMER, WA.	7	None	94	68	110	6.5	1.5	8.8	60	52	86	49	43	71	3.6	3.1	5.2	64	61	78
12105710	NORTH FORK GREEN RIVER NEAR LEMOLO, WA.	22	High	84	57	128	5	0	15	58	41	93	47	34	76	3.5	2.5	5.6	69	58	81
12105900	GREEN RIVER BELOW HOWARD A. HANSON DAM, WA.	36	High	992	626	1570	224	108	259	*	*	*	*	*	*	*	*	*	*	*	*
12106000	BEAR CREEK NEAR EAGLE GORGE, WA.	8	None	27	20	30	2	0.7	4.6	17	14	21	57	45	71	4.2	3.3	5.2	63	57	74
12106500	GREEN RIVER NEAR PALMER, WA.	30	None	1080	511	1500	119	87	229	726	409	1010	43	24	60	3.2	1.8	4.4	67	54	80
12106700	GREEN RIVER AT PURIFICATION PNT NEAR PALMER, WA.	34	High	970	577	1560	120	22	160	*	*	*	*	*	*	*	*	*	*	*	*
12107300	ICY CREEK NEAR BLACK DIAMOND, WA.	4	None	25	16	29	2.9	1.7	3.7	23	16	28	96	66	116	7.1	4.8	8.5	92	89	99
12107500	GREEN RIVER NEAR BLACK DIAMOND, WA.	8	High	1100	485	1450	99	79	176	732	350	1010	35	17	48	2.6	1.2	3.6	67	62	76
12108500	NEWAUKUM CREEK NEAR BLACK DIAMOND, WA.	51	Moderate	60	35	86	14	8.3	23	48	27	68	24	13	34	1.8	0.97	2.5	80	63	86
12111500	COVINGTON CREEK NEAR BLACK DIAMOND, WA.	6	Moderate	27	17	38	0	0	0	22	15	32	23	16	33	1.7	1.2	2.4	81	80	88
12112500	BIG SOOS CREEK NEAR AUBURN, WA.	9	Moderate	123	72	158	29	20	33	108	65	142	23	14	31	1.7	1	2.3	88	79	91
12112600	BIG SOOS CREEK ABV HATCHERY, NEAR AUBURN, WA.	37	Low	127	64	196	26	15	35	98	56	143	20	11	29	1.5	0.84	2.1	77	68	91
12113000	GREEN RIVER NEAR AUBURN, WA.	61	High	1340	662	2070	221	88	347	*	*	*	*	*	*	*	*	*	*	*	*
12113350	GREEN RIVER AT TUKWILA, WA.	25	High	1500	814	2310	271	223	389	*	*	*	*	*	*	*	*	*	*	*	*
12113500	NORTH FORK CEDAR RIVER NEAR LESTER, WA.	18	None	71	53	89	10	5.5	14	*	*	*	*	*	*	*	*	*	*	*	*
12114000	SOUTH FORK CEDAR RIVER NEAR LESTER, WA.	38	None	37	22	54	3.6	2	6.3	*	*	*	*	*	*	*	*	*	*	*	*
12114500	CEDAR R. BELOW BEAR CR., NEAR CEDAR FALLS, WA.	39	None	162	104	234	20	14	35	*	*	*	*	*	*	*	*	*	*	*	*
12115000	CEDAR RIVER NEAR CEDAR FALLS, WA.	51	None	261	158	373	33	19	55	*	*	*	*	*	*	*	*	*	*	*	*
12115500	REX RIVER NEAR CEDAR FALLS, WA.	51	None	101	63	146	8.3	3.8	19	67	43	106	68	43	107	5	3.2	7.9	66	52	75
12115700	BOULDER CR NEAR CEDAR FALLS, WA.	14	None	25	16	36	0	0	1.1	14	8.5	19	42	25	57	3.1	1.8	4.2	56	41	73
12116500	CEDAR RIVER AT CEDAR FALLS, WA.	83	High	308	93	568	44	0.84	210	*	*	*	*	*	*	*	*	*	*	*	*
12116700	MIDDLE FORK TAYLOR CREEK NEAR SELLECK, WA.	7	None	34	24	50	7.4	4.2	8.6	27	20	35	71	54	91	5.2	3.9	6.7	79	69	84
12116800	NORTH FORK TAYLOR CREEK NEAR SELLECK, WA.	7	None	21	15	29	1.8	0.69	4.1	16	11	18	59	38	65	4.3	2.8	4.8	76	62	80
12117000	TAYLOR CREEK NEAR SELLECK, WA.	41	None	98	59	140	21	15	31	79	50	110	62	40	87	4.6	2.9	6.4	81	71	87
12117500	CEDAR RIVER NEAR LANDSBURG, WA.	98	High	687	339	1070	242	87	398	*	*	*	*	*	*	*	*	*	*	*	*
12118400	ROCK CREEK AT STATE HWY 5A NEAR RAVENSDALE, WA.	6	Moderate	18	9.9	24	5.5	3.3	6.3	17	9.8	22	21	12	26	1.5	0.87	1.9	94	91	99
12118500	ROCK CREEK NEAR MAPLE VALLEY, WA.	28	High	20	9.8	31	3.6	0.78	6.9	18	8.3	28	20	9	30	1.4	0.66	2.2	90	84	99
12119000	CEDAR RIVER AT RENTON, WA.	52	High	676	374	1020	119	41	294	*	*	*	*	*	*	*	*	*	*	*	*
12119500	MAY CREEK NEAR RENTON, WA.	9	Low	22	14	27	2.6	1.7	3.4	15	11	22	16	11	24	1.2	0.84	1.8	68	60	81
12119600	MAY CREEK AT MOUTH, NEAR RENTON, WA.	7	Low	22	17	26	3.4	2.9	4.1	16	13	19	18	14	20	1.3	1	1.5	73	70	79
12119700	COAL CREEK NEAR BELLEVUE, WA.	4	Low	12	10	13	2.6	1.7	2.9	8.6	8	9.6	17	16	19	1.3	1.2	1.4	72	74	79
12120000	MERCER CREEK NEAR BELLEVUE, WA.	42	Moderate	22	15	37	6	2.8	8.7	*	*	*	*	*	*	*	*	*	*	*	*
12120500	JUANITA CREEK NEAR KIRKLAND, WA.	24	Low	11	7.3	16	2.7	0.64	3.4	7.7	5.4	10	16	11	21	1.1	0.8	1.6	70	59	82
12120600	ISSAQUAH CREEK NEAR HOBART, WA.	10	None	44	28	81	8.5	5.7	12	31	23	62	24	18	48	1.7	1.3	3.5	70	64	83
12121000	ISSAQUAH CREEK NEAR ISSAQUAH, WA.	19	Low	72	44	96	15	11	21	54	37	77	27	19	39	2	1.4	2.9	75	68	85
12121510	EAST FORK ISSAQUAH CR AT MOUTH AT ISSAQUAH WA.	5	Low	22	13	31	2.6	2.4	5	17	11	22	24	16	32	1.7	1.2	2.3	77	69	83
12121600	ISSAQUAH CREEK NEAR MOUTH, NEAR ISSAQUAH, WA.	33	Low	133	74	197	24	14	33	95	56	133	23	13	32	1.7	0.98	2.3	71	59	82
12121700	TIBBETTS CREEK NEAR ISSAQUAH, WA.	8	Moderate	7.4	5.4	11	0.23	0.08	0.3	5	3.8	7.9	17	13	27	1.3	0.98	2	68	64	75
12122500	BEAR CREEK NEAR REDMOND, WA.	13	None	27	20	36	5.8	4.5	8.7	19	17	29	19	16	28	1.4	1.2	2.1	70	67	84
12123000	COTTAGE LAKE CR NEAR REDMOND, WA.	10	Moderate	14	11	18	5.1	4	5.6	12	9.7	14	15	12	18	1.1	0.91	1.4	86	79	92
12124000	EVANS CREEK (ABOVE MOUTH) NEAR REDMOND, WA.	21	Low	22	17	29	6.1	4.4	7.4	19	13	24	20	14	25	1.4	1	1.8	86	71	93
12124500	BEAR CREEK AT REDMOND, WA.	10	Low	75	61	100	19	17	26	57	46	77	16	13	22	1.2	0.95	1.6	76	68	81
12125000	SAMMAMISH RIVER NEAR REDMOND, WA.	17	Low	263	159	414	62	45	94	254	156	384	23	14	35	1.7	1	2.6	97	88	98
12125200	SAMMAMISH RIVER NEAR WOODINVILLE, WA.	32	Moderate	306	179	482	54	29	89	237	149	362	21	13	31	1.5	0.95	2.3	77	68	89
12125500	BEAR CREEK AT WOODINVILLE, WA.	3	Low	22	19	23	6	5	6.1	16	14	18	14	12	16	1	0.91	1.2	73	69	77
12126000	NORTH CREEK NEAR BOTHELL, WA.	27	Low	36	22	48	6.3	5	8.6	27	18	35	15	10	19	1.1	0.73	1.4	75	67	82
12126500	SAMMAMISH RIVER AT BOTHELL, WA.	27	Low	364	207	515	86	57	124	313	191	471	20	12	30	1.5	0.9	2.2	86	78	93
12127100	SWAMP CREEK AT KENMORE, WA.	23	Low	34	20	52	4.6	2.9	6.3	22	14	35	13	8	20	0.95	0.59	1.5	65	59	74
12127300	LYON CREEK AT LAKE FOREST PARK, WA.	5	Low	6.1	5.8	7.1	1.6	1.3	1.7	4.4	4.1	4.6	16	15	17	1.2	1.1	1.3	72	64	72
12127600	MCALFEER CREEK AT LAKE FOREST PARK, WA.	9	Moderate	15	13	17	6	5.4	7.5	12	11	14	21	20	25	1.5	1.4	1.8	80	80	87
12128000	THORNTON CREEK NEAR SEATTLE, WA.	9	Moderate	12	11	23	4.3	0.96	6.5	9.1	8.2	20	10	9.3	22	0.75	0.68	1.7	76	70	87
12130500	S. F. SKYKOMISH RIVER NEAR SKYKOMISH, WA.	6	None	900	558	1110	192	130	265	*	*	*	*	*	*	*	*	*	*	*	*
12131000	BECKLER RIVER NEAR SKYKOMISH, WA.	6	None	647	444	776	76	69	133	*	*	*	*	*	*	*	*	*	*	*	*
12132000	MILLER RIVER AT MILLER RIVER, WA.	7	None	356	214	432	35	20	78	*	*	*	*	*	*	*	*	*	*	*	*



Appendix C. Annual Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Years of Data	Degree of Regulation	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	
				Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	Annual Means - Baseflow (ft3/s)	of Annual Means - Baseflow (ft3/s)	of Annual Means - Baseflow (ft3/s)	Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	Annual Means - Baseflow (in)	of Annual Means - Baseflow (in)	of Annual Means - Baseflow (in)	Annual Means - Streamflow (ft3/sec/mi2)	of Annual Means - Streamflow (ft3/sec/mi2)	of Annual Means - Streamflow (ft3/sec/mi2)	Annual Means - Baseflow (as % of Total streamflow)	of Annual Means - Baseflow (as % of Total streamflow)	of Annual Means - Baseflow (as % of Total streamflow)	
12133000	S.F. SKYKOMISH RIVER NEAR INDEX, WA.	71	Low	2450	1350	3590	385	205	775	*	*	*	*	*	*	*	*	*	*	*	*	*
12133500	TROUBLESOME CREEK NEAR INDEX, WA.	12	None	111	73	166	18	11	33	*	*	*	*	*	*	*	*	*	*	*	*	*
12134000	NORTH FORK SKYKOMISH RIVER AT INDEX, WA.	21	None	1170	720	1720	145	92	294	*	*	*	*	*	*	*	*	*	*	*	*	*
12134500	SKYKOMISH RIVER NEAR GOLD BAR, WA.	69	Low	3850	2210	5880	614	310	1450	*	*	*	*	*	*	*	*	*	*	*	*	*
12135000	WALLACE RIVER AT GOLD BAR, WA.	37	Moderate	169	104	234	18	6.8	57	108	70	151	77	50	108	5.7	3.7	8	64	53	75	
12135500	OLNEY CREEK NEAR GOLD BAR, WA.	4	None	85	69	90	8.1	6	17	50	43	56	81	71	92	6	5.2	6.8	59	54	70	
12136000	OLNEY CREEK NEAR STARTUP, WA.	7	None	77	61	122	6.4	4	15	46	39	74	60	52	98	4.4	3.8	7.2	60	55	81	
12136500	MAY CREEK NEAR GOLD BAR, WA.	7	None	40	24	49	1.7	1.1	5.2	*	*	*	*	*	*	*	*	*	*	*	*	*
12137200	ELK CREEK NEAR SULTAN,WASH	6	None	119	86	151	11	8.1	21	*	*	*	*	*	*	*	*	*	*	*	*	*
12137260	WILLIAMSON CREEK NEAR SULTAN, WA.	6	None	182	123	202	22	13	37	107	85	126	94	74	110	6.9	5.5	8.1	59	50	69	
12137290	SOUTH FORK SULTAN RIVER NEAR SULTAN, WA.	7	None	107	94	176	9.1	5.5	12	64	49	107	75	57	125	5.6	4.2	9.2	60	49	65	
12137500	SULTAN RIVER NEAR STARTUP, WA.	36	High	796	537	1140	97	4.3	288	*	*	*	*	*	*	*	*	*	*	*	*	*
12137800	SULTAN RIVER BLW DIVERSION DAM NEAR SULTAN, WA.	14	High	195	144	433	110	75	129	*	*	*	*	*	*	*	*	*	*	*	*	*
12138000	SULTAN RIVER NEAR SULTAN, WA.	16	Moderate	802	559	1020	81	3	188	440	310	573	69	49	90	5.1	3.6	6.6	55	48	68	
12138150	SULTAN RIVER BLW CHAPLAIN CR NEAR SULTAN, WA.	9	High	732	484	1090	88	50	259	*	*	*	*	*	*	*	*	*	*	*	*	*
12138160	SULTAN RIVER BLW POWERPLANT NEAR SULTAN, WA.	14	High	682	526	1070	194	157	269	*	*	*	*	*	*	*	*	*	*	*	*	*
12138500	MCCOY CREEK NEAR SULTAN, WA.	4	None	28	25	31	2	1.5	4.7	18	15	22	39	34	48	2.8	2.5	3.5	64	53	72	
12141000	WOODS CREEK NEAR MONROE, WA.	25	Low	164	107	199	18	13	33	108	73	141	26	18	34	1.9	1.3	2.5	66	57	79	
12141300	MIDDLE FORK SNOQUALMIE RIVER NEAR TANNER, WA.	36	None	1210	838	1830	170	92	320	*	*	*	*	*	*	*	*	*	*	*	*	*
12141500	MIDDLE FORK SNOQUALMIE RIVER NEAR NORTH BEND, WA.	18	None	1190	762	1550	189	106	295	*	*	*	*	*	*	*	*	*	*	*	*	*
12142000	N.F. SNOQUALMIE RIVER NEAR SNOQUALMIE FALLS, WA.	55	None	497	337	736	58	34	140	300	219	482	64	46	102	4.7	3.4	7.5	60	49	72	
12142200	CALLIGAN CREEK NEAR SNOQUALMIE, WA.	5	Moderate	48	38	56	0	0	0.61	*	*	*	*	*	*	*	*	*	*	*	*	*
12142300	HANCOCK CREEK NEAR SNOQUALMIE, WA.	6	Moderate	51	44	63	3.3	1.5	4.1	*	*	*	*	*	*	*	*	*	*	*	*	*
12143000	N.F. SNOQUALMIE RIVER NEAR NORTH BEND, WA.	34	None	683	450	964	88	55	158	465	327	658	66	46	93	4.9	3.4	6.9	68	56	79	
12143400	SF SNOQUALMIE RIVER ABV ALICE CR NEAR GARCIA, WA.	36	None	292	202	430	34	20	58	*	*	*	*	*	*	*	*	*	*	*	*	*
12143500	S.F. SNOQUALMIE RIVER NEAR GARCIA, WA.	5	None	296	192	306	31	30	41	*	*	*	*	*	*	*	*	*	*	*	*	*
12143600	SF SNOQUALMIE RIVER AT EDGEWICK, WA.	16	Low	425	308	614	61	42	81	*	*	*	*	*	*	*	*	*	*	*	*	*
12143700	BOXLEY CREEK NEAR CEDAR FALLS, WA.	52	None	23	6.7	52	0.92	0	4.3	*	*	*	*	*	*	*	*	*	*	*	*	*
12143900	BOXLEY CREEK NEAR EDGEWICK, WA.	16	Low	43	29	67	15	10	28	41	26	60	153	96	224	11	7	17	95	86	99	
12144000	S.F. SNOQUALMIE RIVER AT NORTH BEND, WA.	55	Low	540	334	808	97	66	154	392	256	584	65	42	97	4.8	3.1	7.1	73	62	82	
12144500	SNOQUALMIE RIVER NEAR SNOQUALMIE, WA.	41	Moderate	2670	1900	3940	433	274	727	*	*	*	*	*	*	*	*	*	*	*	*	*
12145000	TOKUL CREEK NEAR SNOQUALMIE, WA.	8	Low	97	77	140	23	14	33	86	61	128	36	26	54	2.7	1.9	4	89	75	91	
12145500	RAGING RIVER NEAR FALL CITY, WA.	36	Low	135	78	206	11	4.9	25	87	55	131	39	24	58	2.9	1.8	4.3	64	52	74	
12146000	PATTERSON CREEK NEAR FALL CITY, WA.	19	Moderate	33	22	43	8.6	6.8	12	25	18	32	22	15	28	1.6	1.1	2.1	76	65	84	
12147000	GRIFFIN CREEK NEAR CARNATION, WA.	25	Low	42	29	62	3.1	1.3	10	29	20	45	23	16	36	1.7	1.2	2.6	69	59	81	
12147500	NORTH FORK TOLT RIVER NEAR CARNATION, WA.	39	None	359	249	525	57	34	125	242	169	316	82	58	108	6.1	4.2	7.9	67	57	76	
12147600	SOUTH FORK TOLT RIVER NEAR INDEX, WA.	32	None	55	38	77	4.2	2.4	9.1	32	20	46	80	50	117	5.9	3.7	8.6	58	48	65	
12148000	SOUTH FORK TOLT RIVER NEAR CARNATION, WA.	38	High	129	52	301	35	13	57	*	*	*	*	*	*	*	*	*	*	*	*	*
12148500	TOLT RIVER NEAR CARNATION, WA.	63	High	590	365	922	108	56	221	*	*	*	*	*	*	*	*	*	*	*	*	*
12148700	STOSSEL CREEK NEAR CARNATION, WA.	6	None	17	11	21	1	0.51	1.4	12	8.7	16	29	21	40	2.2	1.6	2.9	71	67	82	
12149000	SNOQUALMIE RIVER NEAR CARNATION, WA.	68	Moderate	3710	2310	5440	591	359	1540	*	*	*	*	*	*	*	*	*	*	*	*	*
12150500	CHERRY CREEK NEAR DUVALL, WA.	6	Low	56	43	76	3	2.4	9.7	38	30	54	27	21	38	2	1.6	2.8	68	61	77	
12150800	SNOHOMISH RIVER NEAR MONROE, WA.	34	Moderate	9480	6580	13700	1540	796	2710	*	*	*	*	*	*	*	*	*	*	*	*	*
12152500	PILCHUCK RIVER NEAR GRANITE FALLS, WA.	14	Low	351	244	422	42	29	85	215	140	251	53	35	63	3.9	2.6	4.6	61	53	68	
12153000	LITTLE PILCHUCK CR NEAR LAKE STEVENS, WA.	22	Low	33	20	41	1.3	0.45	2.3	22	14	30	18	11	24	1.3	0.81	1.8	67	63	81	
12154000	STEVENS CREEK AT LAKE STEVENS, WA.	4	Low	27	22	37	0.22	0	0.34	24	20	34	21	18	30	1.6	1.3	2.2	89	88	93	
12154500	DUBUQUE CR NEAR LAKE STEVENS, WA.	4	None	19	16	24	0.33	0.2	0.79	10	8	14	19	15	26	1.4	1.1	1.9	53	51	59	
12155300	PILCHUCK RIVER NEAR SNOHOMISH, WA.	5	None	405	355	721	54	47	94	257	235	398	27	25	43	2	1.8	3.1	63	55	68	
12157000	QUILCEDA CREEK NEAR MARYSVILLE, WA.	23	Moderate	27	15	31	4.2	2.8	5.5	21	12	24	18	11	21	1.4	0.81	1.5	78	69	85	
12159500	S.F. STILLAGUAMISH RIVER NEAR SILVERTON, WA.	4	None	402	262	511	46	30	77	*	*	*	*	*	*	*	*	*	*	*	*	*
12161000	S.F. STILLAGUAMISH R. NR. GRANITE FALLS, WA.	52	Low	1060	703	1470	125	60	383	625	382	866	71	44	99	5.3	3.2	7.3	59	48	65	
12162500	S.F. STILLAGUAMISH RIVER ABV JIM CR NEAR ARLNGTN, WA.	20	Low	1650	1050	2200	176	119	486	1000	616	1250	68	42	85	5	3.1	6.3	61	54	69	
12164000	JIM CREEK NEAR ARLINGTON, WA.	17	Low	210	130	271	13	6.8	34	128	78	173	38	23	51	2.8	1.7	3.7	61	56	72	
12164500	S.F. STILLAGUAMISH RIVER NEAR ARLINGTON, WA.	7	None	2010	1170	2410	179	115	272	991	596	1340	54	32	72	3.9	2.4	5.3	49	48	60	

**Appendix C. Annual Summary Statistics for Baseflow and Streamflow**

Station No.	Station Name	Years of Data	Degree of Regulation	Median of Annual Streamflow (ft <sup>3</sup> /s)	Minimum of Annual Streamflow (ft <sup>3</sup> /s)	Maximum of Annual Streamflow (ft <sup>3</sup> /s)	Median of Annual Means - 7-Day (ft <sup>3</sup> /s)	Minimum of Annual Means - 7-Day (ft <sup>3</sup> /s)	Maximum of Annual Means - 7-Day (ft <sup>3</sup> /s)	Median of Annual Baseflow (ft <sup>3</sup> /s)	Minimum of Annual Baseflow (ft <sup>3</sup> /s)	Maximum of Annual Baseflow (ft <sup>3</sup> /s)	Median of Annual Baseflow (in)	Minimum of Annual Baseflow (in)	Maximum of Annual Baseflow (in)	Median of Annual Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )	Minimum of Annual Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )	Maximum of Annual Baseflow (ft <sup>3</sup> /sec/mi <sup>2</sup> )	Median of Annual Baseflow (as % of Total streamflow)	Minimum of Annual Baseflow (as % of Total streamflow)	Maximum of Annual Baseflow (as % of Total streamflow)
12165000	SQUIRE CREEK NEAR DARRINGTON, WA.	19	None	178	135	228	22	7.6	63	*	*	*	*	*	*	*	*	*	*	*	*
12165500	N F STILLAGUAMISH RIVER NEAR DARRINGTON, WA.	7	None	549	459	732	47	28	169	351	310	435	58	51	72	4.3	3.8	5.3	64	59	67
12166500	DEER CREEK AT OSO, WA.	13	None	520	330	609	29	19	47	294	177	355	61	37	73	4.5	2.7	5.4	57	45	67
12167000	N.F. STILLAGUAMISH R. NR. ARLINGTON, WA.	69	Low	1870	1120	2880	245	128	520	1100	656	1680	57	34	87	4.2	2.5	6.4	59	46	70
12167500	ARMSTRONG CREEK NEAR ARLINGTON, WA.	6	Low	17	9.9	19	3.4	1.7	5.1	15	8.5	15	27	16	28	2	1.2	2.1	88	81	91
12168500	PILCHUCK CREEK NEAR BRYANT, WA.	26	None	279	172	381	4.7	0.56	17	151	77	211	39	20	55	2.9	1.5	4.1	54	41	64
12169500	FISH CREEK NEAR ARLINGTON, WA.	3	Low	6.8	4.3	9.2	0.56	0.34	0.76	4.9	3.3	6.5	8.8	6	12	0.65	0.44	0.87	72	71	77
12171000	LIGHTNING CREEK NEAR NEWHALEM, WA.	3	None	333	281	386	71	52	75	*	*	*	*	*	*	*	*	*	*	*	*
12171500	SKAGIT RIVER ABV DEVILS CR NEAR NEWHALEM, WA.	5	None	1550	1100	2070	372	272	458	*	*	*	*	*	*	*	*	*	*	*	*
12172000	BIG BEAVER CREEK NEAR NEWHALEM, WA.	14	None	417	255	542	86	64	165	*	*	*	*	*	*	*	*	*	*	*	*
12172500	SKAGIT RIVER NEAR NEWHALEM, WA.	9	None	2730	2050	3770	593	363	712	*	*	*	*	*	*	*	*	*	*	*	*
12173500	RUBY CR BELOW PANTHER CR, NEAR NEWHALEM, WA.	14	None	712	513	887	127	58	186	*	*	*	*	*	*	*	*	*	*	*	*
12174000	RUBY CREEK NEAR NEWHALEM, WA.	20	None	570	389	976	104	59	144	*	*	*	*	*	*	*	*	*	*	*	*
12174500	SKAGIT RIVER BELOW RUBY CR, NEAR NEWHALEM, WA.	11	None	3100	1820	4110	611	402	979	*	*	*	*	*	*	*	*	*	*	*	*
12175500	THUNDER CREEK NR. NEWHALEM, WA.	66	Low	602	452	863	107	52	229	*	*	*	*	*	*	*	*	*	*	*	*
12176000	THUNDER CREEK NEAR MARBLEMOUNT, WA.	11	None	676	519	750	124	50	174	*	*	*	*	*	*	*	*	*	*	*	*
12177000	SKAGIT RIVER AT REFLECTOR BAR, NEAR NEWHALEM, WA.	8	None	4510	2750	5140	791	739	1230	*	*	*	*	*	*	*	*	*	*	*	*
12177500	STETTATTLE CREEK NEAR NEWHALEM, WA.	50	None	186	110	245	30	9.7	45	*	*	*	*	*	*	*	*	*	*	*	*
12178000	SKAGIT RIVER AT NEWHALEM, WA.	81	High	4330	2650	6860	1630	490	3730	*	*	*	*	*	*	*	*	*	*	*	*
12178100	NEWHALEM CREEK NR. NEWHALEM, WA.	36	None	169	114	244	39	22	63	*	*	*	*	*	*	*	*	*	*	*	*
12179000	SKAGIT RIVER ABV ALMA CR, NEAR MARBLEMOUNT, WA.	44	High	5100	3610	8030	2300	1400	4150	*	*	*	*	*	*	*	*	*	*	*	*
12179800	SKAGIT R. ABOVE BACON CREEK NEAR MARBLEMOUNT WA.	6	High	5230	4020	5690	2180	1600	2960	*	*	*	*	*	*	*	*	*	*	*	*
12180000	BACON CREEK NEAR MARBLEMOUNT, WA.	7	None	420	290	578	87	80	144	*	*	*	*	*	*	*	*	*	*	*	*
12181000	SKAGIT RIVER AT MARBLEMOUNT, WA.	26	High	5890	4340	9620	2670	1630	4250	*	*	*	*	*	*	*	*	*	*	*	*
12181100	S.F. CASCADE RIVER AT SO CASCADE GL NEAR MBLMNT, WA.	29	None	27	22	34	1.3	0.26	3.8	*	*	*	*	*	*	*	*	*	*	*	*
12181200	SALIX CR AT SO CASCADE GL NEAR MARBLEMOUNT, WA.	19	None	0.58	0.36	0.87	0.03	0.01	0.07	*	*	*	*	*	*	*	*	*	*	*	*
12182500	CASCADE RIVER AT MARBLEMOUNT, WA.	50	None	1020	708	1350	269	122	438	*	*	*	*	*	*	*	*	*	*	*	*
12185300	ELLIOTT CR AT GOAT LK OUTLET NR MONTE CRISTO, WA.	10	None	32	23	44	4.1	2.2	6.5	*	*	*	*	*	*	*	*	*	*	*	*
12185500	S.F. SAUK RIVER NEAR BARLOW PASS, WA.	5	None	279	208	345	40	30	70	*	*	*	*	*	*	*	*	*	*	*	*
12186000	SAUK RIVER ABV WHITECHUCK RIVER NR DARRINGTON, WA.	72	None	1120	733	1560	220	96	422	*	*	*	*	*	*	*	*	*	*	*	*
12187500	SAUK RIVER AT DARRINGTON, WA.	16	Low	1950	1380	2550	429	290	595	*	*	*	*	*	*	*	*	*	*	*	*
12188400	SUIATTLE RIVER ABV BIG CR NEAR DARRINGTON, WA.	8	Low	1780	1240	2340	501	351	719	*	*	*	*	*	*	*	*	*	*	*	*
12189000	SUIATTLE RIVER NEAR MANSFORD, WA.	11	None	1780	1270	2250	557	476	670	*	*	*	*	*	*	*	*	*	*	*	*
12189500	SAUK RIVER NEAR SAUK, WA.	69	Moderate	4310	2890	6050	1180	604	1990	*	*	*	*	*	*	*	*	*	*	*	*
12190000	JACKMAN CR NEAR CONCRETE, WA.	4	None	147	93	179	12	8.5	16	*	*	*	*	*	*	*	*	*	*	*	*
12190710	SWIFT CREEK NEAR CONCRETE, WA.	8	None	409	386	493	83	43	134	*	*	*	*	*	*	*	*	*	*	*	*
12190718	PARK CREEK AT UPPER BRIDGE NEAR CONCRETE, WA.	8	None	117	103	135	18	12	27	*	*	*	*	*	*	*	*	*	*	*	*
12191500	BAKER RIVER BELOW ANDERSON CR, NEAR CONCRETE, WA.	21	None	1980	1540	2600	528	233	748	*	*	*	*	*	*	*	*	*	*	*	*
12191800	SULPHUR CREEK NEAR CONCRETE, WA.	11	None	46	36	55	18	16	20	*	*	*	*	*	*	*	*	*	*	*	*
12192600	BEAR CREEK BLW TRIBUTARIES NEAR CONCRETE, WA.	4	None	86	73	106	7.4	5.2	13	57	55	74	54	51	70	4	3.8	5.2	66	65	76
12193500	BAKER RIVER AT CONCRETE, WA.	57	High	2590	1710	3540	294	30	1770	*	*	*	*	*	*	*	*	*	*	*	*
12194000	SKAGIT RIVER NEAR CONCRETE, WA.	72	High	14700	9630	21300	5430	2400	10300	*	*	*	*	*	*	*	*	*	*	*	*
12194500	FINNEY CR NEAR CONCRETE WA.	4	Low	315	231	350	23	17	43	203	157	246	53	41	65	3.9	3	4.8	64	60	70
12196000	ALDER CREEK NEAR HAMILTON, WA.	28	None	38	20	49	8.2	5.4	11	31	17	38	39	21	48	2.9	1.6	3.5	82	73	89
12196200	DAY CREEK BELOW DAY LAKE, NEAR LYMAN, WA.	8	None	57	44	67	6.8	4.1	11	37	30	49	76	61	102	5.6	4.5	7.5	65	59	73
12196400	DAY CREEK NEAR HAMILTON, WA.	6	None	253	215	298	19	11	33	124	115	175	52	48	74	3.9	3.6	5.4	49	46	59
12196500	DAY CREEK NEAR LYMAN, WA.	18	None	280	181	337	15	8.1	31	150	79	182	60	31	72	4.4	2.3	5.3	54	44	61
12197040	TANK CR NEAR LYMAN WA.	5	None	2.2	1.7	3.9	0	0	0.15	1.5	1.2	2.5	7.9	6.3	13	0.58	0.47	0.99	68	60	73
12197110	MINKLER CR NEAR LYMAN WA.	5	Low	4.9	3.3	11	0	0	0	3.6	1.9	7.7	9.7	5	21	0.71	0.37	1.5	73	57	75
12197680	BLACK CREEK NEAR MINKLER, WA.	4	None	2.1	1.9	4.6	0.12	0.02	0.21	1.3	0.98	2.6	3.6	2.7	7	0.27	0.2	0.51	62	51	66
12197700	WISEMAN CR NEAR LYMAN WA.	8	None	13	9.1	21	0.92	0.72	2.3	9.3	6.4	14	42	29	61	3.1	2.1	4.5	72	62	73
12199000	SKAGIT RIVER NEAR SEDRO WOOLLEY, WA.	17	High	16200	10700	22200	4930	3230	8380	*	*	*	*	*	*	*	*	*	*	*	*
12199800	EAST FORK NOOKACHAMPS CREEK NEAR BIG LAKE, WA.	9	None	22	19	31	1.3	0.35	2.2	14	12	19	54	44	74	4	3.3	5.5	64	57	68
12200000	E.F. NOOKACHAMPS CREEK NEAR CLEAR LAKE, WA.	8	Low	86	52	117	2.5	0.83	4.8	46	25	68	31	16	45	2.2	1.2	3.3	53	43	64

Appendix C. Annual Summary Statistics for Baseflow and Streamflow

Station No.	Station Name	Years of Data	Degree of Regulation	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum
				Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)
12200500	SKAGIT RIVER NEAR MOUNT VERNON, WA.	56	High	16300	10500	23100	6230	3530	10700	*	*	*	*	*	*	*	*	*	*	*	*
12201000	FRIDAY CREEK NEAR BURLINGTON, WA.	4	Low	79	70	106	2.5	1.7	4.5	56	45	75	20	16	28	1.5	1.2	2	71	63	76
12201500	SAMISH RIVER NEAR BURLINGTON, WA.	29	Low	259	124	339	26	18	39	177	87	239	27	13	37	2	0.99	2.7	68	62	80
12203000	WHATCOM CREEK NEAR BELLINGHAM, WA.	8	High	59	20	114	0.56	0.2	1.4	31	10	60	7.7	2.5	15	0.57	0.19	1.1	53	34	91
12203500	WHATCOM CR BLW HATCHERY NEAR BELLINGHAM, WA.	11	High	85	31	154	3.4	1.5	5.6	*	*	*	*	*	*	*	*	*	*	*	*
12205000	N.F. NOOKSACK RIVER BLW CASCADE CR NR GLACIER, WA.	59	Low	760	540	1090	199	108	330	*	*	*	*	*	*	*	*	*	*	*	*
12205500	N.F. NOOKSACK RIVER NEAR GLACIER, WA.	4	Low	1070	979	1170	245	175	296	*	*	*	*	*	*	*	*	*	*	*	*
12207200	N.F. NOOKSACK RIVER NEAR DEMING, WA.	11	Low	1660	1260	2140	487	423	792	*	*	*	*	*	*	*	*	*	*	*	*
12208000	M.F. NOOKSACK RIVER NEAR DEMING, WA.	11	High	458	361	665	124	56	211	*	*	*	*	*	*	*	*	*	*	*	*
12209000	S.F. NOOKSACK RIVER NEAR WICKERSHAM, WA.	45	None	731	487	1000	105	68	267	487	296	666	64	39	88	4.7	2.9	6.5	67	52	73
12209500	SKOOKUM CREEK NEAR WICKERSHAM, WA.	21	None	134	105	164	27	18	47	99	78	122	58	46	72	4.3	3.4	5.3	74	63	79
12210500	NOOKSACK RIVER AT DEMING, WA.	55	Moderate	3180	2230	4970	866	441	1850	2280	1570	3310	53	37	77	3.9	2.7	5.7	72	62	76
12211500	NOOKSACK RIVER NEAR LYNDEN, WA.	22	Low	3810	2900	4570	1090	635	1640	*	*	*	*	*	*	*	*	*	*	*	*
12212000	FISHTRAP CREEK AT LYNDEN, WA.	23	Moderate	38	22	52	4.5	0.94	8.6	29	17	38	18	11	23	1.3	0.78	1.7	76	69	83
12213100	NOOKSACK RIVER AT FERNDALE, WA.	29	Moderate	3730	2700	5150	961	483	1950	2470	1930	3610	43	33	62	3.1	2.5	4.6	66	60	76
12214000	DAKOTA CREEK NEAR BLAINE, WA.	5	Low	28	18	49	1	0.81	1.8	15	12	29	11	8.9	21	0.81	0.65	1.6	54	51	66
12323000	COLUMBIA RIVER AT BIRCHBANK, B.C.	14	High	67500	56600	90400	31100	19100	41000	*	*	*	*	*	*	*	*	*	*	*	*
12395500	PEND OREILLE RIVER AT NEWPORT, ID.	60	High	25300	12900	37700	7020	3280	12400	*	*	*	*	*	*	*	*	*	*	*	*
12396000	CALISPELL CREEK NEAR DALKENA, WA.	23	Moderate	69	36	110	8.5	4.9	15	*	*	*	*	*	*	*	*	*	*	*	*
12396500	PEND OREILLE RIVER BLW BOX CANYON NEAR IONE, WA.	44	High	26400	14300	39600	8310	4420	14700	*	*	*	*	*	*	*	*	*	*	*	*
12396900	SULLIVAN CR ABV OUTLET CR NEAR METALINE FALLS, WA.	16	None	121	92	180	21	13	30	*	*	*	*	*	*	*	*	*	*	*	*
12397100	OUTLET CREEK NEAR METALINE FALLS, WA.	38	High	68	42	132	2.5	1.5	19	*	*	*	*	*	*	*	*	*	*	*	*
12397500	SULLIVAN CREEK NEAR METALINE FALLS, WA.	11	High	169	108	246	65	21	80	*	*	*	*	*	*	*	*	*	*	*	*
12398000	SULLIVAN CREEK AT METALINE FALLS, WA.	17	Moderate	221	161	386	50	30	84	*	*	*	*	*	*	*	*	*	*	*	*
12398500	PEND OREILLE RIVER B Z CNYN NEAR METALINE FLLS, WA.	51	High	26400	13700	38200	7710	3610	12400	*	*	*	*	*	*	*	*	*	*	*	*
12398600	PEND OREILLE RIVER AT INTERNATIONAL BOUNDARY	33	High	26600	14500	39800	8410	3790	13000	*	*	*	*	*	*	*	*	*	*	*	*
12399500	COLUMBIA RIVER AT INTERNATIONAL BOUNDARY	59	High	97300	63600	131000	39200	22000	79400	*	*	*	*	*	*	*	*	*	*	*	*
12400500	SHEEP CREEK NEAR NORTHPORT, WA.	13	Low	227	81	313	23	8	38	*	*	*	*	*	*	*	*	*	*	*	*
12401500	KETTLE RIVER NEAR FERRY, WA.	68	Moderate	1560	659	2540	111	15	276	*	*	*	*	*	*	*	*	*	*	*	*
12404500	KETTLE RIVER NEAR LAURIER, WA.	68	Moderate	2980	1250	4730	259	70	514	*	*	*	*	*	*	*	*	*	*	*	*
12405500	COLUMBIA RIVER AT KETTLE FALLS, WA.	19	High	95900	68000	128000	21200	13800	52000	*	*	*	*	*	*	*	*	*	*	*	*
12407000	SHEEP CR AT LOON LAKE, WA.	7	High	2.1	0.54	5.6	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*
12407500	SHEEP CREEK AT SPRINGDALE, WA.	19	Moderate	12	6.4	21	6.4	2	9.9	11	6	18	3	1.7	5	0.22	0.13	0.37	92	83	98
12407520	DEER CREEK NEAR VALLEY, WA.	13	Low	17	12	26	3.9	1.5	5.8	*	*	*	*	*	*	*	*	*	*	*	*
12407700	CHEWELAH CREEK AT CHEWELAH, WA.	17	Moderate	32	16	57	5.8	2	13	*	*	*	*	*	*	*	*	*	*	*	*
12408000	COLVILLE RIVER AT BLUE CREEK, WA.	6	Low	140	74	221	42	13	74	*	*	*	*	*	*	*	*	*	*	*	*
12408300	LITTLE PEND OREILLE RIVER NEAR COLVILLE, WA.	17	Low	52	32	119	14	9	19	*	*	*	*	*	*	*	*	*	*	*	*
12408420	HALLER CR NEAR ARDEN, WA.	11	Low	6.1	3.4	16	0.49	0.1	0.96	*	*	*	*	*	*	*	*	*	*	*	*
12408500	MILL CREEK NEAR COLVILLE, WA.	41	Low	46	18	84	8	4.6	14	*	*	*	*	*	*	*	*	*	*	*	*
12408700	MILL CR AT MOUTH NEAR COLVILLE, WA.	6	Low	48	35	108	10	5.7	21	*	*	*	*	*	*	*	*	*	*	*	*
12409000	COLVILLE RIVER AT KETTLE FALLS, WA.	73	High	278	70	769	60	5.3	141	*	*	*	*	*	*	*	*	*	*	*	*
12409500	HALL CREEK AT INCHELIUM, WA.	9	Low	90	23	121	15	5.4	20	*	*	*	*	*	*	*	*	*	*	*	*
12410000	STRANGER CREEK AT METEOR, WA.	5	High	15	3.9	27	0.9	0.5	3	*	*	*	*	*	*	*	*	*	*	*	*
12419000	SPOKANE RIVER NEAR POST FALLS, ID.	80	High	6340	2140	11600	620	108	1460	*	*	*	*	*	*	*	*	*	*	*	*
12419500	SPOKANE RIVER ABV LIBERTY BRG NR OTIS ORCHARD, WA.	47	High	6080	2080	11300	488	72	1210	*	*	*	*	*	*	*	*	*	*	*	*
12421500	SPOKANE RIVER BLW TRENT BRG NEAR SPOKANE, WA.	6	Moderate	7160	6100	9400	683	634	954	*	*	*	*	*	*	*	*	*	*	*	*
12422500	SPOKANE RIVER AT SPOKANE, WA.	106	Moderate	6820	2510	12300	1220	502	2410	*	*	*	*	*	*	*	*	*	*	*	*
12424000	HANGMAN CREEK AT SPOKANE, WA.	48	Low	232	32	629	6.8	0.92	25	121	24	339	2.4	0.48	6.7	0.18	0.04	0.49	52	35	75
12427000	LITTLE SPOKANE RIVER AT ELK, WA.	23	Low	55	43	70	39	33	51	53	41	68	6.3	4.8	8	0.46	0.35	0.59	96	96	98
12431000	LITTLE SPOKANE RIVER AT DARTFORD, WA.	53	Low	288	127	625	124	65	168	*	*	*	*	*	*	*	*	*	*	*	*
12431500	LITTLE SPOKANE RIVER NEAR DARTFORD, WA.	3	Low	609	596	627	390	379	402	*	*	*	*	*	*	*	*	*	*	*	*
12433000	SPOKANE RIVER AT LONG LAKE, WA.	58	Moderate	7770	3180	13400	1460	701	2460	*	*	*	*	*	*	*	*	*	*	*	*
12433100	CHAMOKANE CREEK NEAR SPRINGDALE, WA.	5	Moderate	32	3.8	105	0.76	0	3	*	*	*	*	*	*	*	*	*	*	*	*
12433200	CHAMOKANE CR BELOW FALLS NEAR LONG LAKE, WA.	17	Moderate	43	26	170	19	16	36	*	*	*	*	*	*	*	*	*	*	*	*

**Appendix C. Annual Summary Statistics for Baseflow and Streamflow**

Station No.	Station Name	Years of Data	Degree of Regulation	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	
				Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	Annual Means - Baseflow (ft3/s)	of Annual Means - Baseflow (ft3/s)	of Annual Means - Baseflow (ft3/s)	Annual Means - Baseflow (ft3/s)	of Annual Means - Baseflow (ft3/s)	of Annual Means - Baseflow (ft3/s)	Annual Means - Baseflow (in)	of Annual Means - Baseflow (in)	of Annual Means - Baseflow (in)	Annual Means - Baseflow (ft3/sec/mi2)	of Annual Means - Baseflow (ft3/sec/mi2)	of Annual Means - Baseflow (ft3/sec/mi2)	Annual Means - Baseflow (as % of Total streamflow)	of Annual Means - Baseflow (as % of Total streamflow)	of Annual Means - Baseflow (as % of Total streamflow)	
12433500	SPOKANE RIVER BLW LITTLE FALLS NR LONG LAKE, WA.	21	High	7880	4140	11800	1940	1360	2620	*	*	*	*	*	*	*	*	*	*	*	*	*
12433561	BLUE CR NEAR MOUTH NEAR WELLPINIT, WA.	13	Moderate	1.6	0.44	12	0	0	0.77	*	*	*	*	*	*	*	*	*	*	*	*	*
12434500	SANPOIL RIVER NEAR KELLER, WA.	4	Moderate	207	140	314	39	15	46	*	*	*	*	*	*	*	*	*	*	*	*	*
12436500	COLUMBIA RIVER AT GRAND COULEE, WA.	68	High	108000	70200	145000	49400	16400	73500	*	*	*	*	*	*	*	*	*	*	*	*	*
12437500	NESPELEM RIVER AT NESPELEM, WA.	8	Moderate	49	12	72	8	6.7	9.2	*	*	*	*	*	*	*	*	*	*	*	*	*
12438000	COLUMBIA RIVER AT BRIDGEPORT, WA.	45	High	108000	83800	147000	55600	35700	74300	*	*	*	*	*	*	*	*	*	*	*	*	*
12438700	OKANOGAN RIVER NEAR OLIVER, B.C.	34	High	610	235	1710	196	80	472	*	*	*	*	*	*	*	*	*	*	*	*	*
12439300	TONASKET CREEK AT OROVILLE, WA.	24	Moderate	2.5	0.55	11	0	0	0.52	*	*	*	*	*	*	*	*	*	*	*	*	*
12439500	OKANOGAN RIVER AT OROVILLE, WA.	54	High	638	213	1690	170	30	581	*	*	*	*	*	*	*	*	*	*	*	*	*
12442000	TOATS COULEE CREEK NEAR LOOMIS, WA.	12	None	44	24	66	4.8	3.6	7.8	*	*	*	*	*	*	*	*	*	*	*	*	*
12442300	SINLAHEKIN CR ABV CHOPAKA CR NEAR LOOMIS, WA.	8	High	51	21	94	9	4.1	18	*	*	*	*	*	*	*	*	*	*	*	*	*
12442500	SIMILKAMEEN RIVER NEAR NIGHTHAWK, WA.	68	Moderate	2300	1170	4830	305	141	601	*	*	*	*	*	*	*	*	*	*	*	*	*
12443500	SIMILKAMEEN RIVER NEAR OROVILLE, WA.	17	Moderate	2190	864	3160	340	89	435	*	*	*	*	*	*	*	*	*	*	*	*	*
12444100	WHITESTONE CREEK NEAR TONASKET, WA.	13	High	2.7	2.2	3.7	0.32	0.13	0.76	2.4	2	3.5	0.58	0.48	0.86	0.04	0.04	0.06	89	78	96	96
12444490	BONAPARTE CREEK NEAR WAUCONDA, WA.	4	Moderate	5.1	3.3	8.1	1	0.05	1.4	*	*	*	*	*	*	*	*	*	*	*	*	*
12445000	OKANOGAN RIVER NEAR TONASKET, WA.	81	High	2890	1140	6020	617	146	1330	*	*	*	*	*	*	*	*	*	*	*	*	*
12446000	OKANOGAN RIVER AT OKANOGAN, WA.	13	Moderate	2860	2170	4070	665	412	1100	*	*	*	*	*	*	*	*	*	*	*	*	*
12446500	SALMON CREEK NEAR CONCONULLY, WA.	10	High	29	11	67	1.3	0.57	2.5	*	*	*	*	*	*	*	*	*	*	*	*	*
12447000	SALMON CREEK NEAR OKANOGAN, WA.	5	Low	40	33	58	7	3.1	11	*	*	*	*	*	*	*	*	*	*	*	*	*
12447200	OKANOGAN RIVER AT MALOTT, WA	31	High	2970	1570	6310	525	296	1330	*	*	*	*	*	*	*	*	*	*	*	*	*
12447300	OKANOGAN RIVER NEAR MALOTT, WA.	8	High	3040	2020	4290	843	509	1050	*	*	*	*	*	*	*	*	*	*	*	*	*
12447383	METHOW RIVER ABOVE GOAT CR NEAR MAZAMA, WA.	6	Low	498	287	725	0	0	6.5	*	*	*	*	*	*	*	*	*	*	*	*	*
12447390	ANDREWS CREEK NEAR MAZAMA, WA.	29	None	28	13	59	2.9	1.4	4.7	*	*	*	*	*	*	*	*	*	*	*	*	*
12448000	CHEWUCH RIVER AT WINTHROP, WA	5	Low	528	276	581	36	26	75	*	*	*	*	*	*	*	*	*	*	*	*	*
12448500	METHOW RIVER AT WINTHROP, WA.	7	Low	1440	758	1640	190	136	267	*	*	*	*	*	*	*	*	*	*	*	*	*
12448998	TWISP RIVER NEAR TWISP, WA.	12	Low	282	83	413	22	16	66	*	*	*	*	*	*	*	*	*	*	*	*	*
12449500	METHOW RIVER AT TWISP, WA.	45	Low	1390	467	2230	201	141	357	*	*	*	*	*	*	*	*	*	*	*	*	*
12449600	BEAVER CREEK BELOW SOUTH FORK, NEAR TWISP, WA.	18	None	19	7.5	46	4.3	2.9	7.5	*	*	*	*	*	*	*	*	*	*	*	*	*
12449700	BEAVER CREEK NEAR TWISP, WA.	5	Low	28	23	38	7.2	5.6	7.7	*	*	*	*	*	*	*	*	*	*	*	*	*
12449950	METHOW RIVER NEAR PATEROS, WA.	38	Moderate	1570	566	2960	283	154	438	*	*	*	*	*	*	*	*	*	*	*	*	*
12450500	METHOW RIVER AT PATEROS, WA.	16	Low	1570	873	2370	318	245	464	*	*	*	*	*	*	*	*	*	*	*	*	*
12450700	COLUMBIA RIVER BELOW WELLS DAM, WA.	29	High	106000	85300	156000	58600	42900	75600	*	*	*	*	*	*	*	*	*	*	*	*	*
12451000	STEHEKIN RIVER AT STEHEKIN, WA.	74	None	1400	871	2010	220	67	536	*	*	*	*	*	*	*	*	*	*	*	*	*
12451500	RAILROAD CREEK AT LUCERNE, WA.	31	None	200	128	297	30	10	60	*	*	*	*	*	*	*	*	*	*	*	*	*
12451600	SAFETY HARBOR CREEK NEAR MANSON, WA.	7	None	14	7.1	22	1	0.6	1.9	*	*	*	*	*	*	*	*	*	*	*	*	*
12451620	GRADE CREEK NEAR MANSON, WA.	7	None	5.6	3.7	8.3	1.2	0.8	2.2	*	*	*	*	*	*	*	*	*	*	*	*	*
12451650	GOLD CREEK NEAR MANSON, WA.	7	None	0.55	0.45	1.3	0.1	0.1	0.4	*	*	*	*	*	*	*	*	*	*	*	*	*
12452500	CHELAN RIVER AT CHELAN, WA.	93	High	2050	1170	3140	333	0.87	1310	*	*	*	*	*	*	*	*	*	*	*	*	*
12452800	ENTIAT RIVER NEAR ARDENVOIR, WA.	40	None	363	174	622	59	32	110	*	*	*	*	*	*	*	*	*	*	*	*	*
12453000	ENTIAT RIVER AT ENTIAT, WA.	21	None	496	274	804	85	40	120	*	*	*	*	*	*	*	*	*	*	*	*	*
12453700	COLUMBIA RIVER AT ROCKY REACH DAM, WA.	36	High	111000	89300	159000	59700	42100	78500	*	*	*	*	*	*	*	*	*	*	*	*	*
12454000	WHITE RIVER NEAR PLAIN, WA.	29	None	817	488	1080	138	75	276	*	*	*	*	*	*	*	*	*	*	*	*	*
12455000	WENATCHEE RIVER BELOW WENATCHEE LAKE, WA.	26	Low	1340	765	1910	210	106	360	*	*	*	*	*	*	*	*	*	*	*	*	*
12456000	PHELPS CR NEAR PLAIN, WA.	3	Low	37	34	77	3.1	1.2	9.4	*	*	*	*	*	*	*	*	*	*	*	*	*
12456500	CHIWAWA RIVER NEAR PLAIN, WA.	23	None	523	264	783	84	46	131	*	*	*	*	*	*	*	*	*	*	*	*	*
12457000	WENATCHEE RIVER AT PLAIN, WA.	74	Low	2310	1270	3340	411	205	642	*	*	*	*	*	*	*	*	*	*	*	*	*
12458000	ICICLE CREEK ABV SNOW CR NEAR LEAVENWORTH, WA.	38	Low	624	369	904	102	50	152	*	*	*	*	*	*	*	*	*	*	*	*	*
12458500	ICICLE CR NEAR LEAVENWORTH WA.	3	Low	609	582	731	115	87	116	*	*	*	*	*	*	*	*	*	*	*	*	*
12459000	WENATCHEE RIVER AT PESHASTIN, WA.	68	Moderate	3160	1730	4830	519	255	817	*	*	*	*	*	*	*	*	*	*	*	*	*
12461000	WENATCHEE RIVER AT DRYDEN, WA.	6	Moderate	3120	1950	3700	586	491	727	*	*	*	*	*	*	*	*	*	*	*	*	*
12461400	MISSION CREEK ABOVE SAND CR NEAR CASHMERE, WA.	12	None	13	8.6	19	1.8	1.2	2.5	*	*	*	*	*	*	*	*	*	*	*	*	*
12462000	MISSION CR AT CASHMERE, WA.	4	Low	25	16	49	2.5	0.1	3.9	*	*	*	*	*	*	*	*	*	*	*	*	*
12462500	WENATCHEE RIVER AT MONITOR, WA.	34	Moderate	3330	1750	5260	511	287	803	*	*	*	*	*	*	*	*	*	*	*	*	*
12462600	COLUMBIA RIVER BELOW ROCK ISLAND DAM, WA.	36	High	114000	90400	159000	61800	46600	79200	*	*	*	*	*	*	*	*	*	*	*	*	*

**Appendix C. Annual Summary Statistics for Baseflow and Streamflow**

Station No.	Station Name	Years of Data	Degree of Regulation	Median of Annual Means - Streamflow (ft3/s)	Minimum of Annual Means - Streamflow (ft3/s)	Maximum of Annual Means - Streamflow (ft3/s)	Median of Annual Means - Low Flow (ft3/s)	Minimum of Annual Means - Low Flow (ft3/s)	Maximum of Annual Means - Low Flow (ft3/s)	Median of Annual Means - Baseflow (ft3/s)	Minimum of Annual Means - Baseflow (ft3/s)	Maximum of Annual Means - Baseflow (ft3/s)	Median of Annual Means - Baseflow (in)	Minimum of Annual Means - Baseflow (in)	Maximum of Annual Means - Baseflow (in)	Median of Annual Means - Baseflow (ft3/sec/mi2)	Minimum of Annual Means - Baseflow (ft3/sec/mi2)	Maximum of Annual Means - Baseflow (ft3/sec/mi2)	Median of Annual Means - Baseflow (as % of Total streamflow)	Minimum of Annual Means - Baseflow (as % of Total streamflow)	Maximum of Annual Means - Baseflow (as % of Total streamflow)
12463000	DOUGLAS CREEK NEAR ALSTOWN, WA.	11	Moderate	2.3	0.24	13	0.2	0	0.5	0.92	0.19	5.8	0.12	0.03	0.79	0.01	0	0.06	40	11	91
12464500	COLUMBIA RIVER AT TRINIDAD, WA.	34	High	121000	78100	154000	42000	20100	63800	*	*	*	*	*	*	*	*	*	*	*	*
12464800	COAL CREEK AT MOHLER, WA.	11	Moderate	3	0.93	11	0	0	0.04	1.2	0.53	5.4	0.26	0.11	1.1	0.02	0.01	0.08	40	23	69
12465000	CRAB CREEK AT IRBY, WA.	55	Low	54	2.7	299	3.8	0	16	29	2.2	149	0.39	0.03	1.9	0.03	0	0.14	54	32	92
12465400	WILSON CREEK BLW CORBETT DRAW NEAR ALMIRA, WA.	4	Low	7.4	0.57	27	0.31	0.13	0.75	*	*	*	*	*	*	*	*	*	*	*	*
12467000	CRAB CREEK NEAR MOSES LAKE, WA.	54	High	53	0.03	183	9.7	0	27	*	*	*	*	*	*	*	*	*	*	*	*
12468500	PARK CREEK BLW PARK LAKE NEAR COULEE CITY, WA.	23	Low	11	4.5	16	2.7	0.1	7.5	9.5	4.3	14	0.41	0.18	0.62	0.03	0.01	0.05	86	70	97
12470500	ROCKY FORD CREEK NEAR EPHRATA, WA.	49	Moderate	70	43	139	53	27	89	69	42	133	2.1	1.2	4	0.15	0.09	0.29	99	96	100
12471500	CRAB CREEK NEAR WARDEN, WA.	4	High	23	22	24	15	1.3	17	*	*	*	*	*	*	*	*	*	*	*	*
12472500	CRAB CREEK NEAR SMYRNA, WA.	17	High	34	6.1	126	2	0.1	28	*	*	*	*	*	*	*	*	*	*	*	*
12472600	CRAB CR NEAR BEVERLY, WA.	38	High	224	62	293	127	20	171	*	*	*	*	*	*	*	*	*	*	*	*
12472800	COLUMBIA RIVER BELOW PRIEST RAPIDS DAM, WA.	79	High	120000	78100	166000	52200	20100	81200	*	*	*	*	*	*	*	*	*	*	*	*
12474500	YAKIMA RIVER NEAR MARTIN, WA.	73	High	321	201	580	1.9	0	63	*	*	*	*	*	*	*	*	*	*	*	*
12476000	KACHESS RIVER NEAR EASTON, WA.	74	High	296	131	468	1	0	67	*	*	*	*	*	*	*	*	*	*	*	*
12477000	YAKIMA RIVER AT EASTON, WA.	18	High	631	249	898	65	19	295	*	*	*	*	*	*	*	*	*	*	*	*
12479000	CLE ELUM RIVER NEAR ROSYLN, WA.	74	High	927	573	1400	17	0	270	*	*	*	*	*	*	*	*	*	*	*	*
12479500	YAKIMA RIVER AT CLE ELUM, WA.	73	High	1800	874	2800	209	38	1160	*	*	*	*	*	*	*	*	*	*	*	*
12480000	TEANAWAY RIVER BELOW FORKS NEAR CLE ELUM, WA.	25	Low	340	146	592	15	6.7	27	*	*	*	*	*	*	*	*	*	*	*	*
12480500	TEANAWAY RIVER NEAR CLE ELUM, WA.	10	Low	381	253	475	6.4	1.3	22	*	*	*	*	*	*	*	*	*	*	*	*
12483500	MANASTASH CREEK NEAR ELLENSBURG, WA.	4	None	55	40	63	8.8	6.9	9.3	*	*	*	*	*	*	*	*	*	*	*	*
12483800	NANEUM CREEK NEAR ELLENSBURG, WA.	20	Low	57	17	96	12	5.6	21	*	*	*	*	*	*	*	*	*	*	*	*
12484500	YAKIMA RIVER AT UMTANUM, WA.	72	High	2400	1340	4200	501	181	1830	*	*	*	*	*	*	*	*	*	*	*	*
12488000	BUMPING RIVER NEAR NILE, WA.	69	High	295	127	454	10	0	118	*	*	*	*	*	*	*	*	*	*	*	*
12488500	AMERICAN RIVER NEAR NILE, WA.	58	None	234	94	379	38	24	65	*	*	*	*	*	*	*	*	*	*	*	*
12489500	NACHES RIVER AT OAK FLAT NEAR NILE, WA.	8	High	1170	1000	1730	199	160	261	*	*	*	*	*	*	*	*	*	*	*	*
12491500	TIETON RIVER AT TIETON DAM NEAR NACHES, WA.	58	High	494	279	842	7.4	1.6	171	*	*	*	*	*	*	*	*	*	*	*	*
12492500	TIETON RIVER AT CANAL HEADWORKS NEAR NACHES, WA.	64	High	437	170	796	18	0	229	*	*	*	*	*	*	*	*	*	*	*	*
12494000	NACHES RIVER BELOW TIETON RIVER NEAR NACHES, WA.	66	High	1240	341	2560	78	3.3	556	*	*	*	*	*	*	*	*	*	*	*	*
12499000	NACHES RIVER NEAR NORTH YAKIMA, WA.	11	High	1590	992	2300	196	80	300	*	*	*	*	*	*	*	*	*	*	*	*
12500450	YAKIMA RIVER ABV AHTANUM CR AT UNION GAP, WA.	31	High	3310	1890	6620	1060	387	1870	*	*	*	*	*	*	*	*	*	*	*	*
12500500	NORTH FORK AHTANUM CREEK NEAR TAMPICO, WA.	52	None	71	18	128	14	5.7	22	*	*	*	*	*	*	*	*	*	*	*	*
12501000	SO FK AHTANUM CR AT CONRAD RNCH N TAMPICO, WA.	47	Low	20	6.4	41	5	2.3	8.7	*	*	*	*	*	*	*	*	*	*	*	*
12501500	SOUTH FORK AHTANUM CR NEAR TAMPICO, WA.	5	Moderate	23	16	38	4.2	1.2	5.3	*	*	*	*	*	*	*	*	*	*	*	*
12502000	AHTANUM CR AT THE NARROWS NEAR TAMPICO, WA.	12	High	80	56	154	17	12	20	*	*	*	*	*	*	*	*	*	*	*	*
12502500	AHTANUM CREEK AT UNION GAP, WA.	41	High	72	21	171	9.4	5.1	21	*	*	*	*	*	*	*	*	*	*	*	*
12503000	YAKIMA RIVER AT UNION GAP, NEAR YAKIMA, WA.	14	High	4510	2520	5880	852	648	1150	*	*	*	*	*	*	*	*	*	*	*	*
12505000	YAKIMA RIVER NEAR PARKER, WA.	70	High	2580	497	5630	88	0.96	482	*	*	*	*	*	*	*	*	*	*	*	*
12506000	TOPPENISH CREEK NEAR FORT SIMCOE, WA.	14	Moderate	79	39	214	12	3.5	14	*	*	*	*	*	*	*	*	*	*	*	*
12506500	SIMCOE CR BLW SPRING CR NEAR FORT SIMCOE, WA.	14	High	24	6.8	67	0.35	0	0.9	*	*	*	*	*	*	*	*	*	*	*	*
12508990	YAKIMA RIVER AT MABTON, WA.	26	High	3160	1220	6570	1150	344	1700	*	*	*	*	*	*	*	*	*	*	*	*
12510500	YAKIMA RIVER AT KIONA, WA.	71	High	3450	1290	7060	1170	249	1840	*	*	*	*	*	*	*	*	*	*	*	*
13334300	SNAKE RIVER NEAR ANATONE, WA.	39	High	33700	18000	59000	14500	9170	21200	*	*	*	*	*	*	*	*	*	*	*	*
13334500	ASOTIN CREEK NEAR ASOTIN, WA.	30	Moderate	70	38	110	26	19	37	*	*	*	*	*	*	*	*	*	*	*	*
13334700	ASOTIN CR BLW KEARNEY GULCH NEAR ASOTIN, WA.	28	Moderate	68	37	152	31	17	39	*	*	*	*	*	*	*	*	*	*	*	*
13335050	ASOTIN CREEK AT ASOTIN, WA.	6	Moderate	85	45	194	25	21	35	*	*	*	*	*	*	*	*	*	*	*	*
13343500	SNAKE RIVER NEAR CLARKSTON, WA.	50	High	48600	28400	75100	17500	10100	23900	*	*	*	*	*	*	*	*	*	*	*	*
13343800	MEADOW CREEK NEAR CENTRAL FERRY, WA.	11	Moderate	3.4	1.7	6.1	0.43	0.16	0.97	1.9	1.2	3.8	0.39	0.25	0.78	0.03	0.02	0.06	56	44	82
13344000	TUCANNON RIVER NEAR POMEROY, WA.	6	Moderate	122	90	200	52	42	61	*	*	*	*	*	*	*	*	*	*	*	*
13344500	TUCANNON RIVER NEAR STARBUCK, WA.	40	Moderate	155	90	327	53	18	87	127	75	241	4	2.4	7.6	0.29	0.17	0.56	82	60	91
13345300	PALOUSE RIVER AT PALOUSE, WA.	7	Moderate	237	42	591	4.7	0	8.6	*	*	*	*	*	*	*	*	*	*	*	*
13346000	PALOUSE RIVER NEAR COLFAX, WA.	8	Moderate	292	175	400	4.6	1.3	7.9	175	84	231	4.8	2.3	6.4	0.36	0.17	0.47	60	48	67
13346100	PALOUSE RIVER AT COLFAX, WA.	10	Moderate	314	48	543	3.1	0.17	14	*	*	*	*	*	*	*	*	*	*	*	*
13346500	SO FK PALOUSE RIVER ABV PARADISE CR NR PULLMAN, WA.	5	Low	16	11	21	0	0	0.02	7.2	5.9	10	1.2	0.95	1.7	0.09	0.07	0.12	45	37	60
13347000	PARADISE CR NEAR PULLMAN, WA.	4	Low	9.4	7.3	12	0.39	0.3	0.46	5.1	3.2	6	2	1.3	2.4	0.15	0.09	0.17	54	41	62

**Appendix C. Annual Summary Statistics for Baseflow and Streamflow**

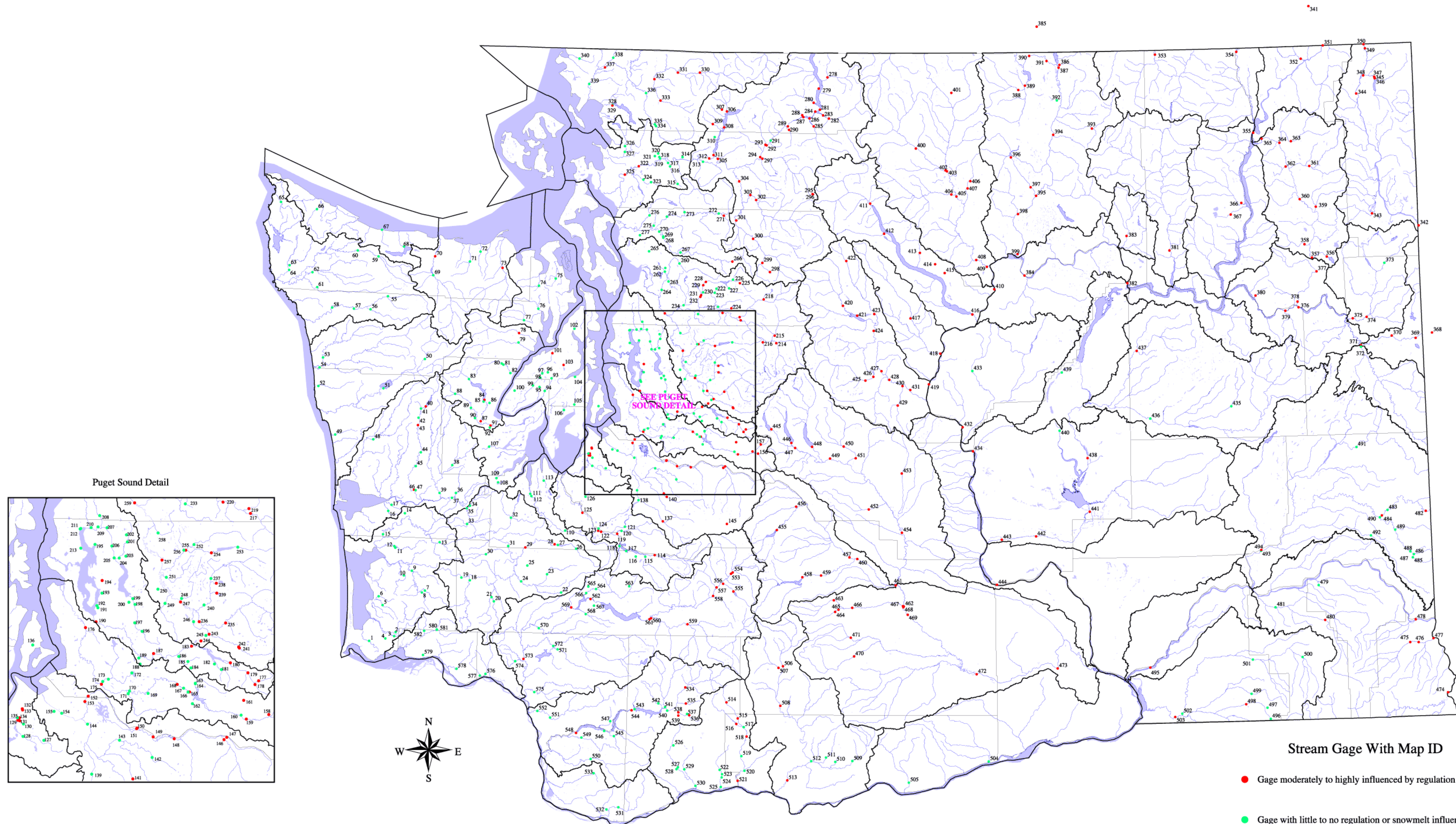
Station No.	Station Name	Years of Data	Degree of Regulation	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum
				Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	Annual Means - Baseflow (ft3/s)	of Annual Means - Baseflow (ft3/s)	of Annual Means - Baseflow (ft3/s)	Annual Means - Baseflow (ft3/s)	of Annual Means - Baseflow (ft3/s)	of Annual Means - Baseflow (ft3/s)	Annual Means - Baseflow (ft3/sec/mi2)	of Annual Means - Baseflow (ft3/sec/mi2)	of Annual Means - Baseflow (ft3/sec/mi2)	Annual Means - Baseflow (as % of Total streamflow)	of Annual Means - Baseflow (as % of Total streamflow)	of Annual Means - Baseflow (as % of Total streamflow)			
13348000	SOUTH FORK PALOUSE RIVER AT PULLMAN, WA.	29	Moderate	30	7.7	112	2	0.31	5.1	17	5.8	61	1.8	0.59	6.2	0.13	0.04	0.46	57	31	76
13348500	MISSOURI FLAT CREEK AT PULLMAN, WA.	25	None	6.4	0.79	22	0.1	0	0.32	3.8	0.46	12	1.9	0.23	5.8	0.14	0.02	0.43	59	25	71
13349000	FOURMILE CR AT SHAWNEE, WA.	5	None	13	10	17	0	0	0	4.8	3.7	10	0.91	0.71	1.9	0.07	0.05	0.14	37	30	58
13349210	PALOUSE RIVER BELOW SOUTH FORK AT COLFAX, WA.	28	Low	349	69	726	12	2.6	27	191	47	389	3.3	0.8	6.7	0.24	0.06	0.49	55	31	68
13349400	PINE CREEK AT PINE CITY, WA.	14	Moderate	51	22	134	1.4	0.81	3.1	20	7.5	69	0.91	0.34	3.1	0.07	0.03	0.23	39	26	63
13350500	UNION FLAT CREEK NEAR COLFAX, WA.	18	Moderate	30	15	83	0.47	0	1.6	18	6.6	52	1.3	0.47	3.7	0.09	0.04	0.28	60	34	72
13351000	PALOUSE RIVER AT HOOPER, WA.	58	Moderate	559	106	1600	17	0	64	315	85	834	1.7	0.46	4.5	0.13	0.03	0.33	56	38	80
13352500	COW CREEK AT HOOPER, WA.	10	High	24	4.3	47	0.29	0	4.7	*	*	*	*	*	*	*	*	*	*	*	*
13353000	SNAKE RIVER BLW ICE HARBOR DAM, WA.	32	High	50900	27100	84200	17300	10400	24300	*	*	*	*	*	*	*	*	*	*	*	*
14013000	MILL CREEK NEAR WALLA WALLA, WA.	58	High	92	54	180	26	10	44	69	40	123	16	9.1	28	1.2	0.67	2.1	75	49	85
14013500	BLUE CREEK NEAR WALLA WALLA, WA.	31	None	16	8.8	26	0.6	0.13	0.96	10	5.1	16	8.2	4.1	12	0.6	0.3	0.92	63	38	83
14015000	MILL CREEK AT WALLA WALLA, WA.	56	High	83	18	182	0.1	0	3.5	*	*	*	*	*	*	*	*	*	*	*	*
14016000	DRY CREEK NEAR WALLA WALLA, WA.	18	Low	21	13	37	0.95	0	1.9	13	9.3	21	3.8	2.6	5.9	0.28	0.19	0.44	62	42	77
14016500	EAST FK TOUCHET RIVER NEAR DAYTON, WA.	22	Low	115	67	192	36	27	48	95	59	144	13	7.9	19	0.93	0.58	1.4	83	56	88
14017000	TOUCHET RIVER AT BOLLES, WA.	43	Moderate	210	79	478	29	3.8	56	145	68	312	5.5	2.6	12	0.4	0.19	0.86	69	47	86
14017500	TOUCHET RIVER NEAR TOUCHET, WA.	14	Moderate	232	110	388	19	8.4	32	148	82	239	2.7	1.5	4.4	0.2	0.11	0.33	64	60	75
14018500	WALLA WALLA RIVER NEAR TOUCHET, WA.	45	High	550	167	1210	7.3	0	27	*	*	*	*	*	*	*	*	*	*	*	*
14034350	ALDER CR AT ALDERDALE, WA.	7	Moderate	6.5	1.4	32	0.51	0.11	0.66	3	0.92	4.8	0.21	0.06	0.33	0.02	0.01	0.02	46	9.9	87
14036600	ROCK CREEK NEAR ROOSEVELT, WA.	5	None	33	25	113	0	0	0	17	8.7	41	1.1	0.56	2.6	0.08	0.04	0.2	52	31	64
14107000	KLICKITAT RIVER ABV WEST FK NEAR GLENWOOD, WA.	38	None	326	126	539	82	5.6	116	*	*	*	*	*	*	*	*	*	*	*	*
14108000	WEST FORK KLICKITAT RIVER NEAR GLENWOOD, WA.	4	None	318	229	353	168	114	190	*	*	*	*	*	*	*	*	*	*	*	*
14110000	KLICKITAT RIVER NEAR GLENWOOD, WA.	60	Moderate	844	475	1230	358	245	467	*	*	*	*	*	*	*	*	*	*	*	*
14112000	LITTLE KLICKITAT RIVER NEAR GOLDENDALE, WA.	18	Low	55	34	115	1.3	0.17	3.3	35	19	79	5.7	3	13	0.42	0.22	0.95	64	40	86
14112300	SPRING CREEK NEAR BLOCKHOUSE, WA.	4	Low	14	12	16	12	11	12	14	12	14	67	60	68	5	4.4	5	100	90	99
14112400	MILL CREEK NEAR BLOCKHOUSE, WA.	8	Low	17	8.9	23	2	0.81	4.1	14	7.8	20	7.1	3.9	10	0.53	0.29	0.75	82	72	90
14112500	LITTLE KLICKITAT RIVER NEAR WAHKIACUS, WA.	33	Low	173	33	372	20	7.7	36	103	30	262	5	1.4	13	0.37	0.11	0.94	60	42	90
14113000	KLICKITAT RIVER NEAR PITT, WA.	71	Low	1530	751	2880	637	395	911	*	*	*	*	*	*	*	*	*	*	*	*
14121300	WHITE SALMON RIVER BLW CASCADES CR NR TROUT L, WA.	21	Low	152	91	204	75	59	95	*	*	*	*	*	*	*	*	*	*	*	*
14121400	WHITE SALMON RIVER ABV TR LK CR NR TROUT LK, WA.	9	None	242	208	275	141	111	161	*	*	*	*	*	*	*	*	*	*	*	*
14121500	TROUT LAKE CREEK NEAR TROUT LAKE, WA.	10	None	256	224	314	39	27	47	*	*	*	*	*	*	*	*	*	*	*	*
14122000	WHITE SALMON RIVER NEAR TROUT LAKE, WA.	12	Low	410	253	508	81	38	92	328	207	418	24	15	31	1.8	1.1	2.3	80	76	88
14122500	WHITE SALMON RIVER AT SPLASH DAM NR TROUT LK, WA.	5	Low	459	344	598	131	59	170	*	*	*	*	*	*	*	*	*	*	*	*
14122900	WHITE SALMON RIVER AT B-Z CORNER, WA.	6	Low	770	661	969	324	298	361	668	580	851	34	29	43	2.5	2.2	3.2	87	84	91
14123000	WHITE SALMON RIVER AT HUSUM, WA.	25	Low	980	618	1380	510	352	585	897	537	1170	41	25	54	3.1	1.8	4	92	82	93
14123500	WHITE SALMON RIVER NEAR UNDERWOOD, WA.	72	Moderate	1120	555	1770	528	373	704	*	*	*	*	*	*	*	*	*	*	*	*
14124000	LITTLE WHITE SALMON RIVER NEAR WILLARD, WA.	4	None	156	148	169	13	11	15	107	76	123	37	26	43	2.7	1.9	3.1	69	51	73
14124500	LITTLE WHITE SALMON RIVER AT WILLARD, WA.	16	High	433	324	634	20	2	88	372	263	550	44	31	66	3.3	2.3	4.8	86	71	87
14125000	LTLE WHITE SALMON RIVER ABV LAPHAM CR WILLARD, WA.	14	High	515	398	748	83	59	150	435	335	639	50	39	74	3.7	2.9	5.5	84	83	89
14125500	LITTLE WHITE SALMON RIVER NEAR COOK, WA.	20	High	539	195	868	114	101	177	453	182	738	46	18	75	3.4	1.4	5.5	84	77	93
14126500	FALLS CREEK NEAR CARSON, WA.	3	None	96	86	105	14	11	21	77	72	91	43	40	51	3.2	3	3.7	80	81	86
14127000	WIND RIVER ABV TROUT CREEK NEAR CARSON, WA.	24	Low	571	492	825	74	61	116	418	324	574	53	41	72	3.9	3	5.3	73	58	83
14127500	TROUT CREEK NEAR CARSON, WA.	3	Low	224	205	228	7.6	7.6	7.7	166	111	167	75	50	75	5.5	3.7	5.5	74	54	74
14128000	PANTHER CREEK NEAR CARSON, WA.	8	None	179	163	227	55	48	63	146	124	183	66	56	82	4.8	4.1	6.1	82	74	84
14128500	WIND RIVER NEAR CARSON, WA.	42	Low	1240	477	1860	170	129	262	833	373	1290	50	22	78	3.7	1.7	5.7	67	56	79
14143500	WASHOUGAL RIVER NEAR WASHOUGAL, WA.	36	Low	861	468	1260	62	44	97	505	305	777	63	38	98	4.7	2.8	7.2	59	43	67
14144000	LITTLE WASHOUGAL RIVER NEAR WASHOUGAL, WA.	4	Low	97	88	109	6.8	5.7	7.9	67	59	75	39	34	44	2.9	2.5	3.2	69	63	77
14212000	SALMON CREEK NEAR BATTLE GROUND, WA.	31	Low	63	37	92	2.6	1.4	5	42	28	62	31	21	46	2.3	1.5	3.4	67	57	77
14213200	LEWIS RIVER NEAR TROUT LAKE, WA.	12	None	699	575	828	104	87	174	*	*	*	*	*	*	*	*	*	*	*	*
14213500	BIG CREEK BELOW SKOOKUM MDW NEAR TROUT LK, WA.	18	None	57	37	90	7.2	4	12	*	*	*	*	*	*	*	*	*	*	*	*
14214000	RUSH CREEK ABV MEADOW CREEK NEAR TROUT LAKE, WA.	9	None	21	19	26	0.04	0	0.1	*	*	*	*	*	*	*	*	*	*	*	*
14214500	MEADOW CR BLW LONE BUTTE MDW NEAR TROUT LK, WA.	13	None	96	66	119	69	47	86	92	65	110	106	75	128	7.8	5.5	9.4	96	89	98
14215000	RUSH CREEK ABOVE FALLS NEAR COUGAR, WA.	21	None	173	121	234	102	79	147	*	*	*	*	*	*	*	*	*	*	*	*
14215500	CURLY CREEK NEAR COUGAR, WA.	14	None	59	54	77	12	9	15	*	*	*	*	*	*	*	*	*	*	*	*
14216000	LEWIS RIVER ABV MUDDY RIVER NEAR COUGAR, WA.	23	None	1270	806	1870	262	180	392	965	623	1350	58	37	81	4.3	2.7	6	76	64	88

**Appendix C. Annual Summary Statistics for Baseflow and Streamflow**

Station No.	Station Name	Years of Data	Degree of Regulation	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum	Median of	Minimum	Maximum
				Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	of Annual Means - Streamflow (ft3/s)	Annual Means - Low Flow (ft3/s)	of Annual Means - Low Flow (ft3/s)	of Annual Means - Low Flow (ft3/s)	Annual Means - Baseflow (ft3/s)	of Annual Means - Baseflow (ft3/s)	of Annual Means - Baseflow (ft3/s)	Annual Means - Baseflow (in)	of Annual Means - Baseflow (in)	of Annual Means - Baseflow (in)	Annual Means - Baseflow (ft3/sec/mi2)	of Annual Means - Baseflow (ft3/sec/mi2)	of Annual Means - Baseflow (ft3/sec/mi2)	Annual Means - Baseflow (as % of Total streamflow)	of Annual Means - Baseflow (as % of Total streamflow)	of Annual Means - Baseflow (as % of Total streamflow)
14216500	MUDDY RIVER BLW CLEAR CREEK NEAR COUGAR, WA.	24	None	842	566	1300	133	95	204	621	382	933	64	40	97	4.7	2.9	7.1	74	61	86
14216800	PINE CREEK NEAR COUGAR, WA.	12	Low	192	164	221	112	97	124	169	152	193	102	92	117	7.5	6.8	8.6	88	82	93
14217500	SWIFT CREEK NEAR COUGAR, WA.	10	None	211	150	267	103	82	138	185	139	240	91	69	118	6.7	5.1	8.7	88	87	93
14218000	LEWIS RIVER NEAR COUGAR, WA.	34	High	2980	1810	4500	647	477	949	*	*	*	*	*	*	*	*	*	*	*	*
14219000	CANYON CREEK NEAR AMBOY, WA.	12	None	461	273	587	23	13	34	278	169	447	59	36	95	4.4	2.6	7	60	57	77
14219500	LEWIS RIVER NEAR AMBOY, WA.	18	None	4290	2830	5550	838	660	1040	2980	2030	4020	61	41	82	4.5	3.1	6	70	61	78
14219800	SPEELYAI CREEK NEAR COUGAR, WA.	22	None	106	54	155	3.5	1.9	6.9	65	36	102	70	39	110	5.1	2.9	8.1	61	54	73
14220500	LEWIS RIVER AT ARIEL, WA.	59	High	4920	2600	7470	831	84	1570	*	*	*	*	*	*	*	*	*	*	*	*
14221500	CEDAR CREEK NEAR ARIEL, WA.	12	Low	167	130	203	9	4.1	15	119	91	147	40	30	49	2.9	2.2	3.6	71	61	81
14222500	EAST FORK LEWIS RIVER NEAR HEISSON, WA.	63	None	743	416	1120	48	32	107	453	286	744	49	31	81	3.6	2.3	6	61	50	73
14223000	KALAMA RIVER NEAR KALAMA, WA.	16	Low	1120	677	1620	195	160	265	856	514	1210	65	39	92	4.8	2.9	6.7	76	70	81
14223500	KALAMA RIVER BELOW ITALIAN CR NEAR KALAMA, WA.	28	Low	1220	864	1900	220	167	295	859	645	1410	59	44	96	4.3	3.3	7.1	71	62	79
14224000	OHANAPECOSH RIVER NEAR LEWIS, WA.	5	None	522	479	764	85	65	94	*	*	*	*	*	*	*	*	*	*	*	*
14224500	CLEAR FK COWLITZ RIVER NEAR PACKWOOD, WA.	17	Low	222	128	388	48	31	66	*	*	*	*	*	*	*	*	*	*	*	*
14225500	LAKE CREEK NEAR PACKWOOD, WA.	48	High	87	4.4	136	28	2.9	48	*	*	*	*	*	*	*	*	*	*	*	*
14226000	LAKE CREEK AT MOUTH, NEAR PACKWOOD, WA.	21	High	49	21	144	12	8.5	58	*	*	*	*	*	*	*	*	*	*	*	*
14226500	COWLITZ RIVER AT PACKWOOD, WA.	74	High	1590	923	2410	336	156	571	*	*	*	*	*	*	*	*	*	*	*	*
14230000	JOHNSON CREEK NEAR PACKWOOD, WA.	13	None	210	146	248	38	16	56	*	*	*	*	*	*	*	*	*	*	*	*
14232500	CISPUS RIVER NEAR RANDLE, WA.	66	None	1310	720	2100	328	212	487	*	*	*	*	*	*	*	*	*	*	*	*
14233400	COWLITZ RIVER NEAR RANDLE, WA.	45	Low	4830	2580	7240	1040	549	1400	*	*	*	*	*	*	*	*	*	*	*	*
14233500	COWLITZ RIVER NEAR KOSMOS, WA.	49	High	4890	2580	7240	1030	549	1390	*	*	*	*	*	*	*	*	*	*	*	*
14235000	COWLITZ RIVER AT MOSSYROCK, WA.	23	Low	5450	3050	7720	1050	589	1540	*	*	*	*	*	*	*	*	*	*	*	*
14235500	WEST FORK TILTON RIVER NEAR MORTON, WA.	20	Low	115	90	182	7.1	4.6	14	77	57	102	64	47	85	4.7	3.5	6.2	67	51	72
14236200	TILTON RIVER ABV BEAR CANYON CR NEAR CINEBAR, WA.	40	Low	812	467	1230	73	50	121	521	331	750	50	32	72	3.7	2.3	5.3	64	51	75
14236400	CINNABAR CREEK NEAR CINEBAR, WA.	8	None	30	23	34	5.5	3.4	6.3	20	18	27	61	54	81	4.5	4	5.9	67	66	81
14236500	TILTON RIVER NEAR CINEBAR, WA.	16	Low	941	542	1250	82	63	151	625	351	753	54	31	66	4	2.3	4.8	66	58	74
14237000	KLICKITAT CREEK AT MOSSYROCK, WA.	23	None	10	6.3	15	0	0	0.41	7.5	5.4	12	31	22	48	2.3	1.6	3.5	75	66	86
14237500	WINSTON CREEK NEAR SILVER LAKE, WA.	20	Low	114	88	156	4.9	1.3	12	73	60	106	26	22	38	1.9	1.6	2.8	64	57	78
14238000	COWLITZ RIVER BELOW MAYFIELD DAM, WA.	63	High	6280	3220	9730	1570	744	3000	*	*	*	*	*	*	*	*	*	*	*	*
14239000	SALMON CREEK NEAR TOLEDO, WA.	10	Low	161	116	190	1.3	0.29	6	64	47	91	11	8.2	16	0.83	0.6	1.2	40	33	51
14241500	SOUTH FORK TOUTLE RIVER AT TOUTLE, WA.	17	None	592	366	899	79	68	133	429	256	550	49	29	62	3.6	2.1	4.6	72	59	76
14242500	TOUTLE RIVER NEAR SILVER LAKE, WA.	53	None	2020	1180	3100	359	266	622	1390	915	2130	40	26	61	2.9	1.9	4.5	69	51	79
14243000	COWLITZ RIVER AT CASTLE ROCK, WA.	58	High	9540	4880	13400	1760	1130	3830	*	*	*	*	*	*	*	*	*	*	*	*
14243500	DELAMETER CREEK NEAR CASTLE ROCK, WA.	19	Low	88	70	127	3.3	1.7	6.3	60	53	89	41	37	62	3	2.7	4.5	68	62	82
14245000	COWEMAN RIVER NEAR KELSO, WA.	31	None	408	197	635	37	25	57	262	144	411	30	16	47	2.2	1.2	3.5	64	57	76
14246000	ABERNATHY CR NEAR LONGVIEW, WA.	8	Low	104	86	141	6.4	4.6	13	73	64	94	49	43	63	3.6	3.1	4.6	70	65	82
14246500	MILL CREEK NEAR CATHLAMET, WA.	6	None	112	90	145	6.2	5	12	82	68	102	41	33	50	3	2.5	3.7	73	64	82
14247500	ELOCHOMAN RIVER NEAR CATHLAMET, WA.	30	Low	381	243	513	28	15	41	231	152	321	48	31	66	3.5	2.3	4.9	61	54	74
14248200	JIM CROW CREEK NEAR GRAYS RIVER, WA.	10	None	33	22	44	0.54	0.12	1.8	18	14	28	46	36	71	3.4	2.6	5.2	55	48	67
14249000	GRAYS RIVER ABV SOUTH FK NEAR GRAYS RIVER, WA.	19	None	324	239	454	23	18	45	180	136	258	62	46	88	4.5	3.4	6.5	56	48	69
14249500	GRAYS RIVER BLW SOUTH FK NEAR GRAYS RIVER, WA.	4	None	470	430	597	31	23	49	261	232	309	59	52	70	4.3	3.9	5.1	56	51	61
14250500	WEST FORK GRAYS RIVER NEAR GRAYS RIVER, WA.	20	Low	121	96	163	8.5	4.8	20	78	61	97	70	54	87	5.2	4	6.4	64	50	71

\* Not estimated due to significant regulation or snowmelt influence on streamflow





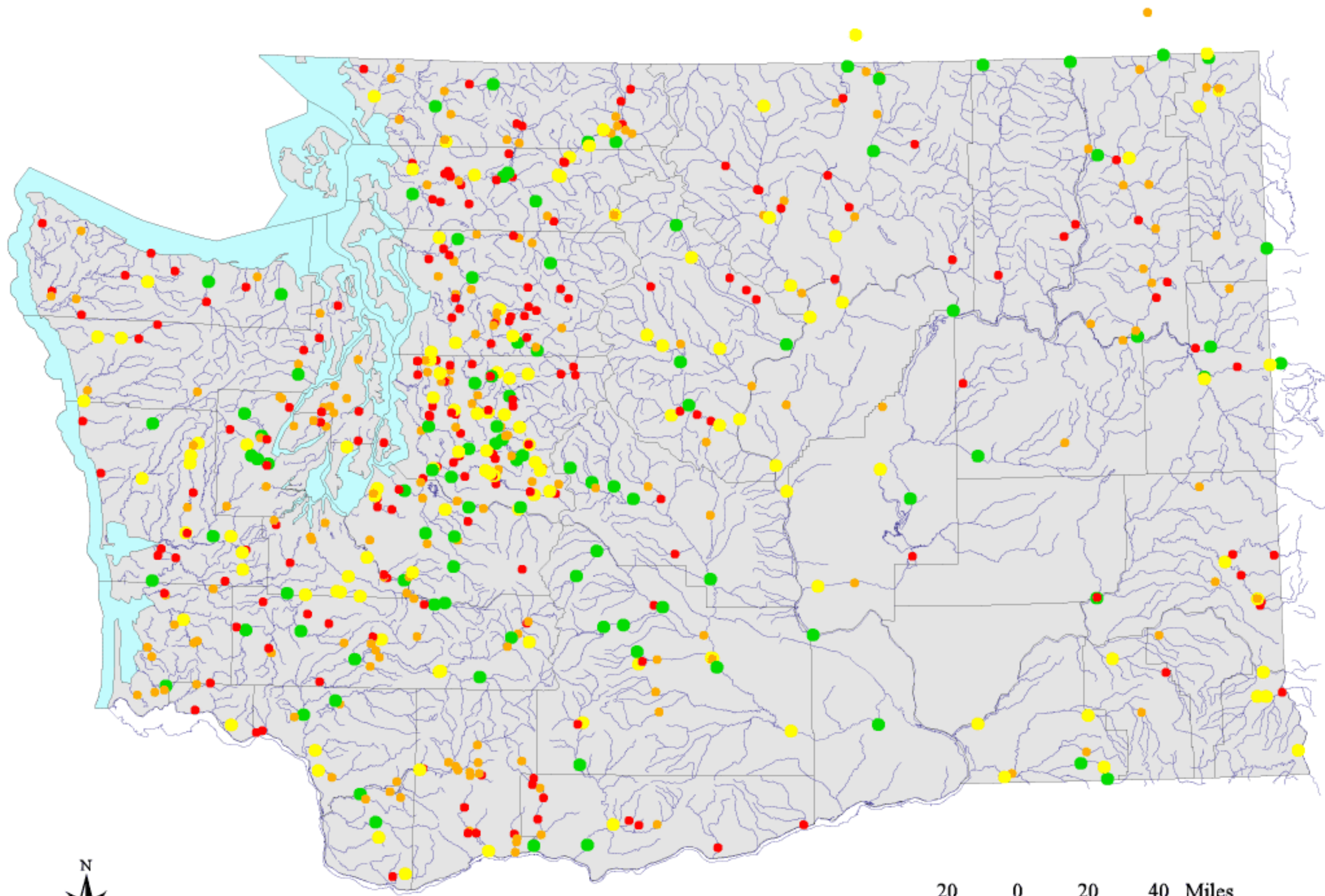
Note for pdf version: station numbers correspond to the 'map id' column in Appendix A



### PLATE 1. DISTRIBUTION OF MODELED GAGING STATIONS

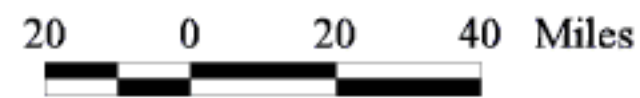
By  
K.A. Sinclair and C.F. Pitz  
1999





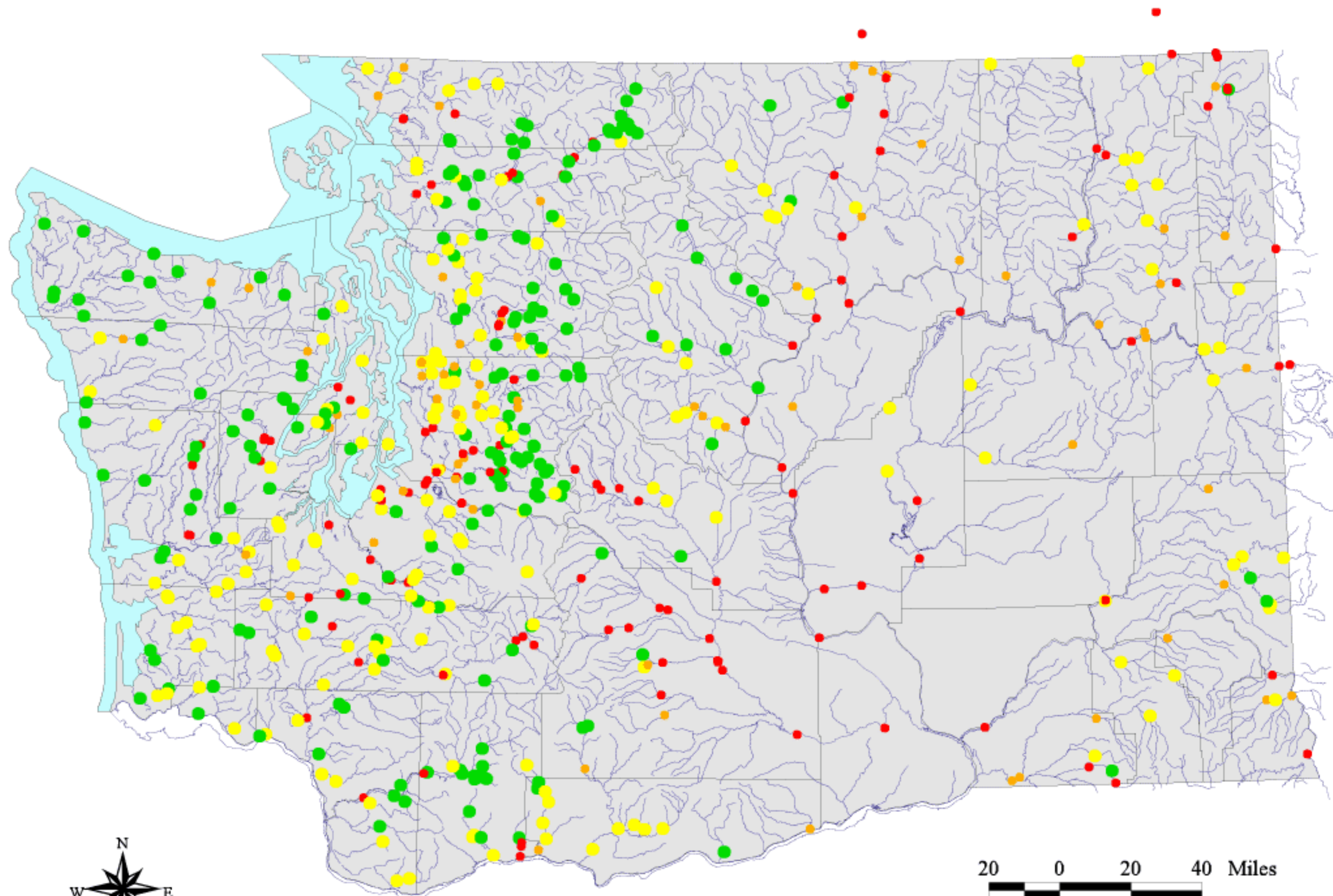
**Years of Data  
Used for Modeling**

- 3 - 10
- 11 - 25
- 26 - 50
- > 50



**Plate 2A  
Years of Data  
Used to Estimate Baseflow**





Degree of Regulation  
of Streamflow

- High
- Moderate
- Low
- None Reported

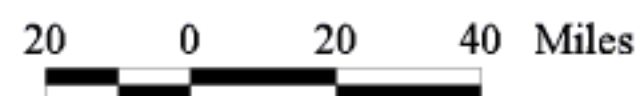
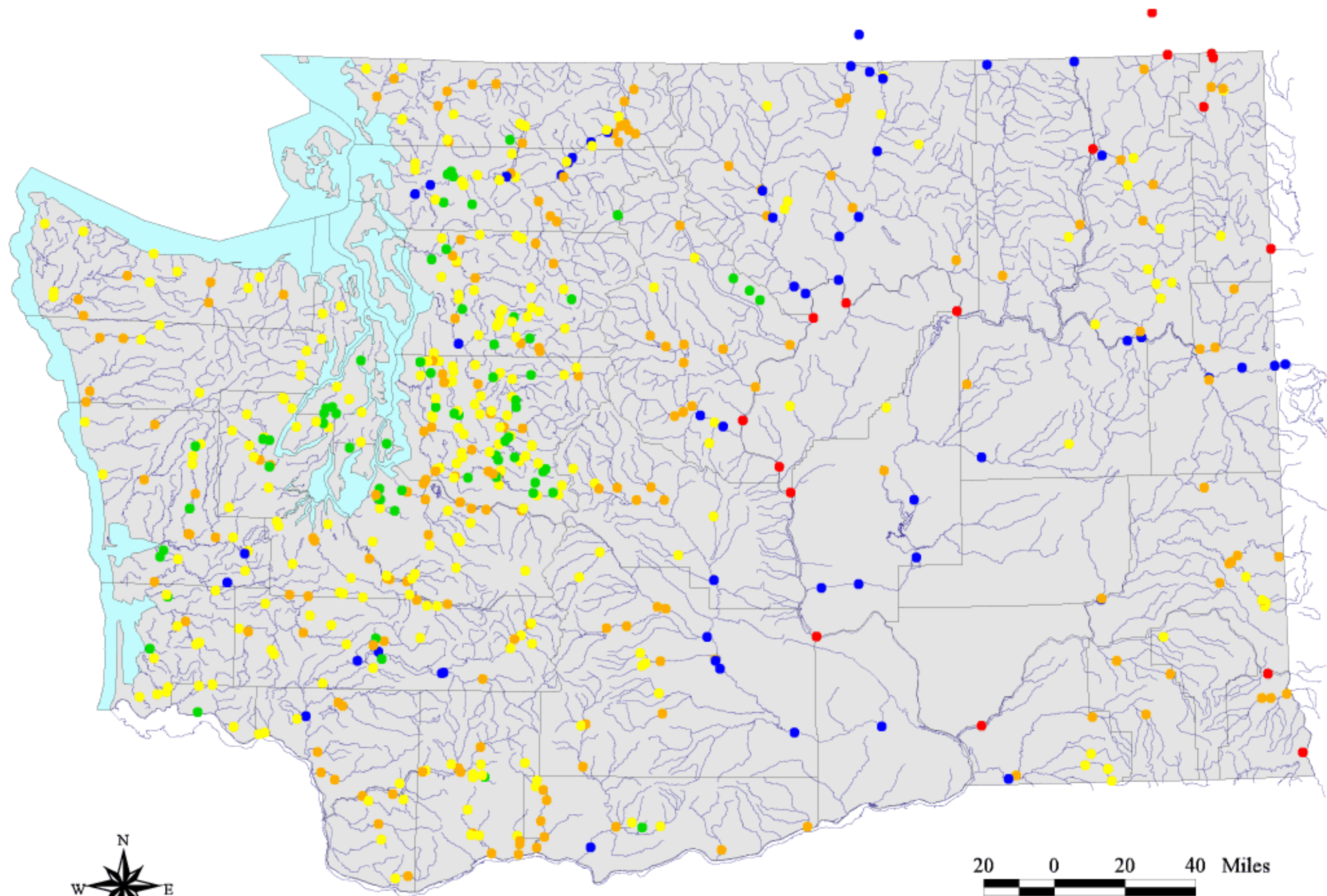


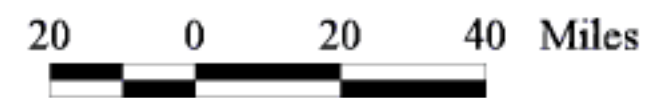
Plate 2B  
Degree of Stream Regulation





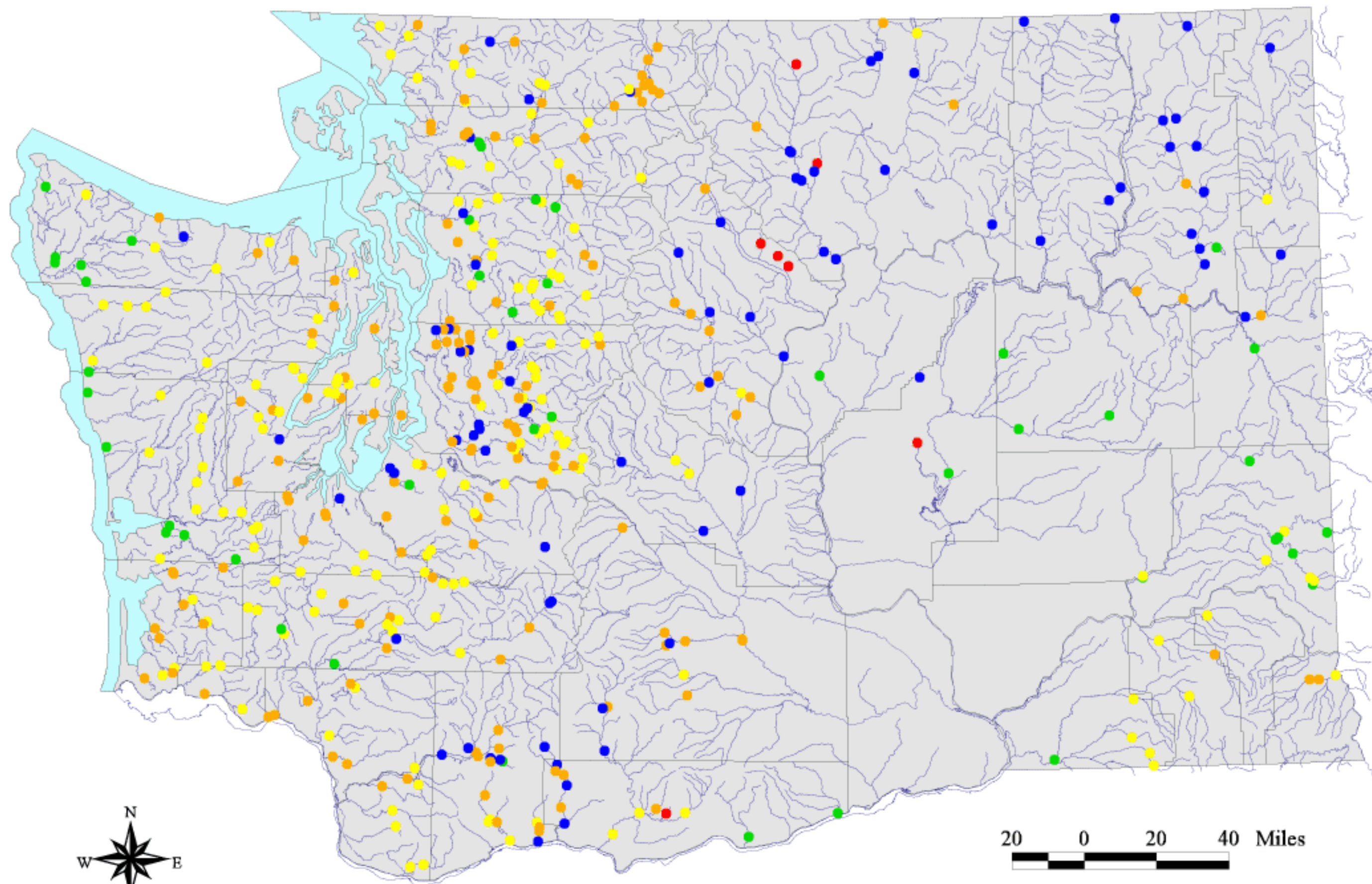
**Drainage Area (mi<sup>2</sup>)**

- 0 - 10
- >10 - 100
- >100 - 1000
- >1000 - 10000
- >10000



**Plate 2C**  
**Drainage Area**  
**of Modeled Stations**





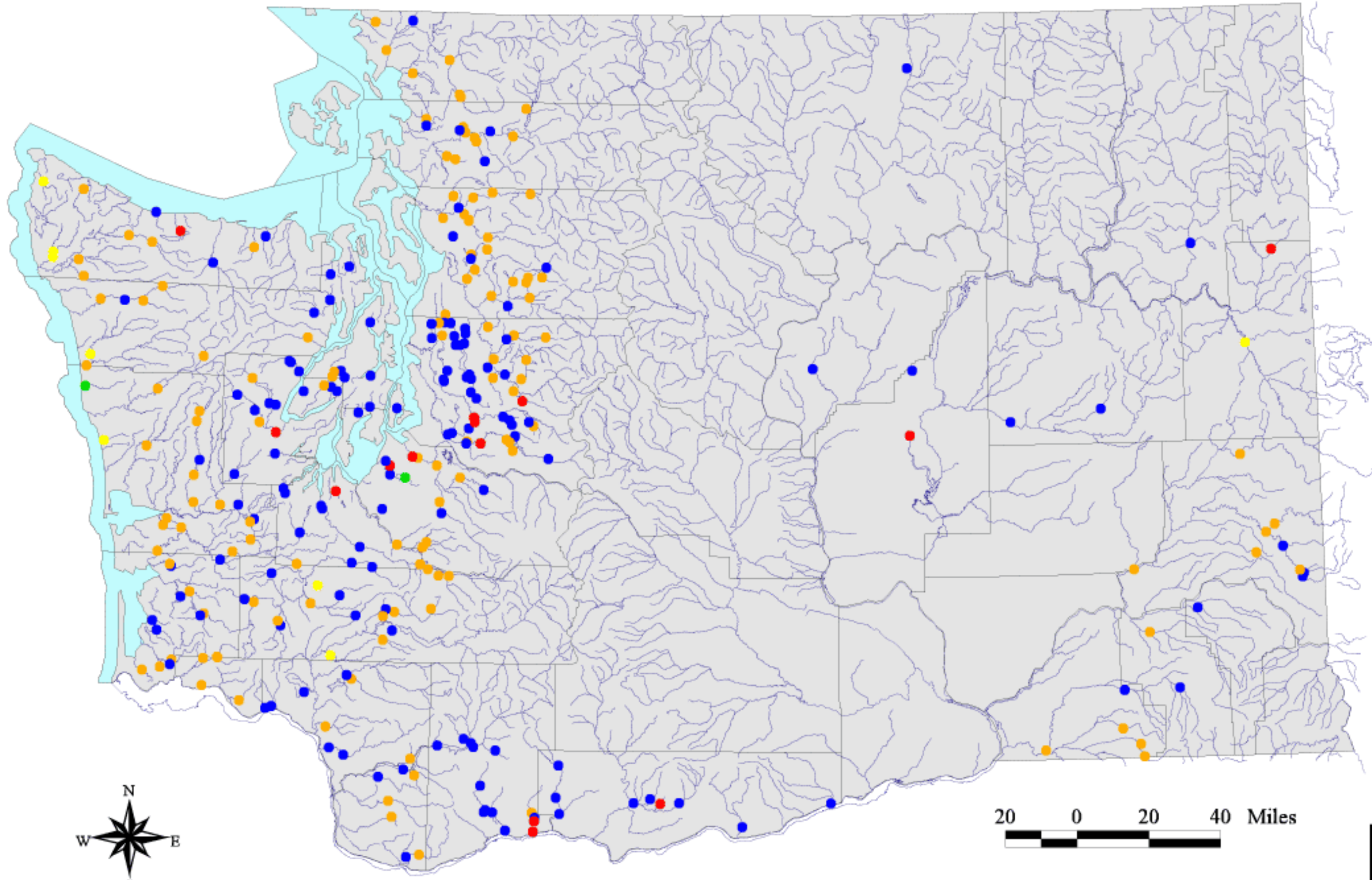
**February Baseflow (%)**

- 0 - 50
- 51 - 65
- 66 - 80
- 81 - 95
- > 95

20 0 20 40 Miles

**Plate 3A**  
Mean Baseflow as a %  
of Total Streamflow -  
February





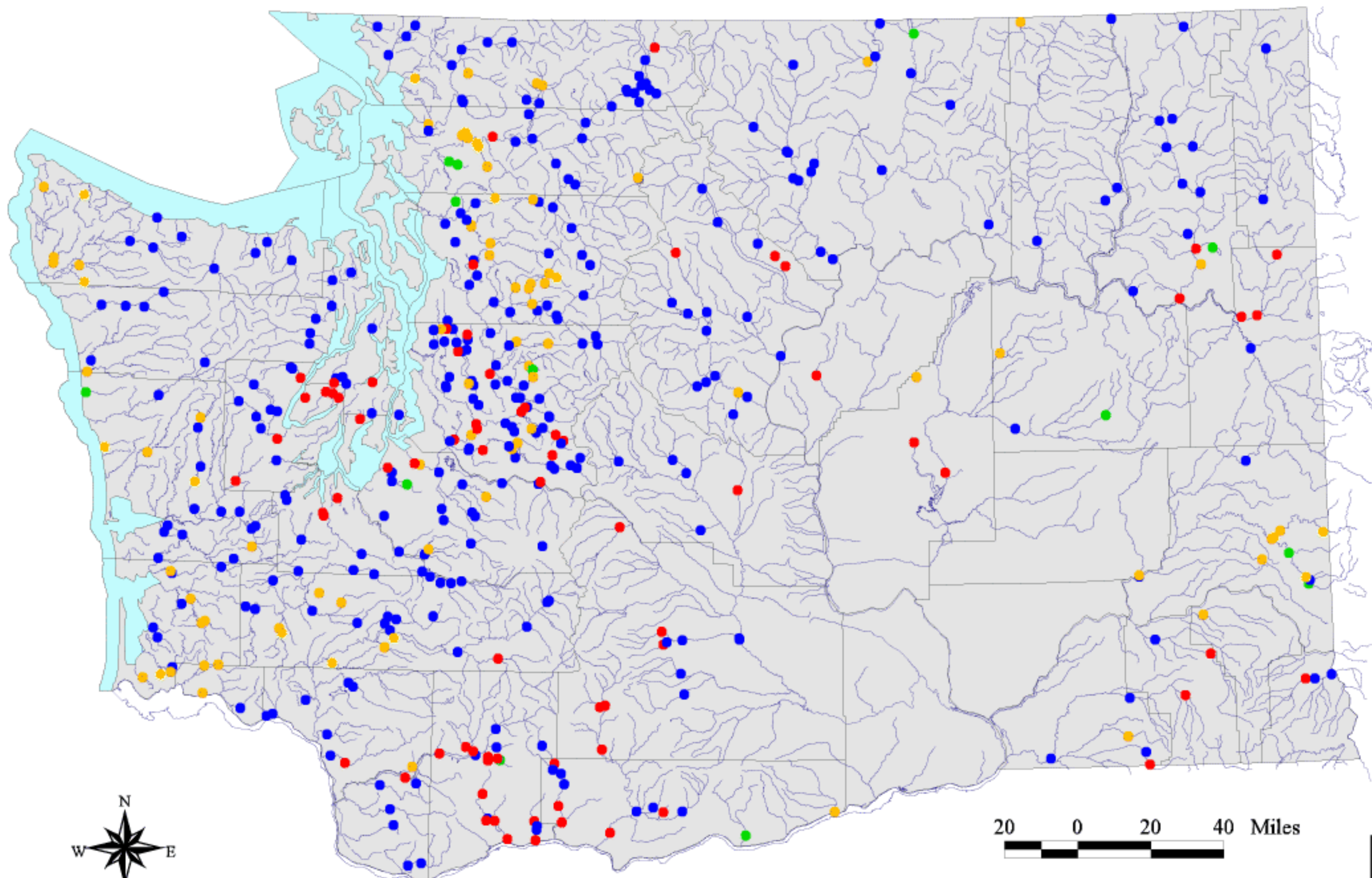
- May Baseflow (%)**
- 0 - 50
  - 51 - 65
  - 66 - 80
  - 81 - 95
  - > 95

20 0 20 40 Miles



**Plate 3B**  
Mean Baseflow as a %  
of Total Streamflow -  
May

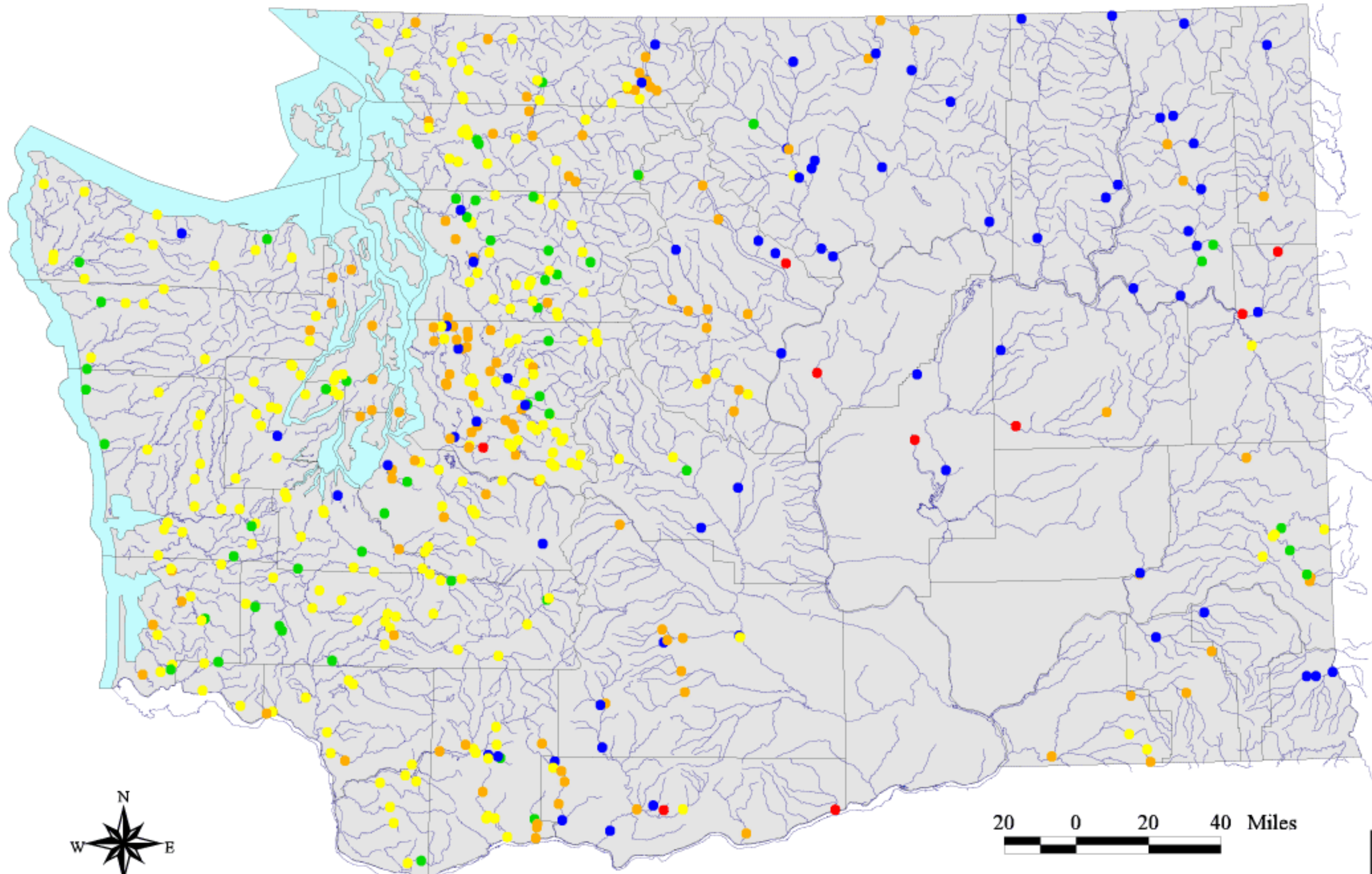




- August Baseflow (%)
- 0 - 50
  - 51 - 65
  - 66 - 80
  - 81 - 95
  - > 95

Plate 3C  
Mean Baseflow as a %  
of Total Streamflow -  
August





November Baseflow (%)

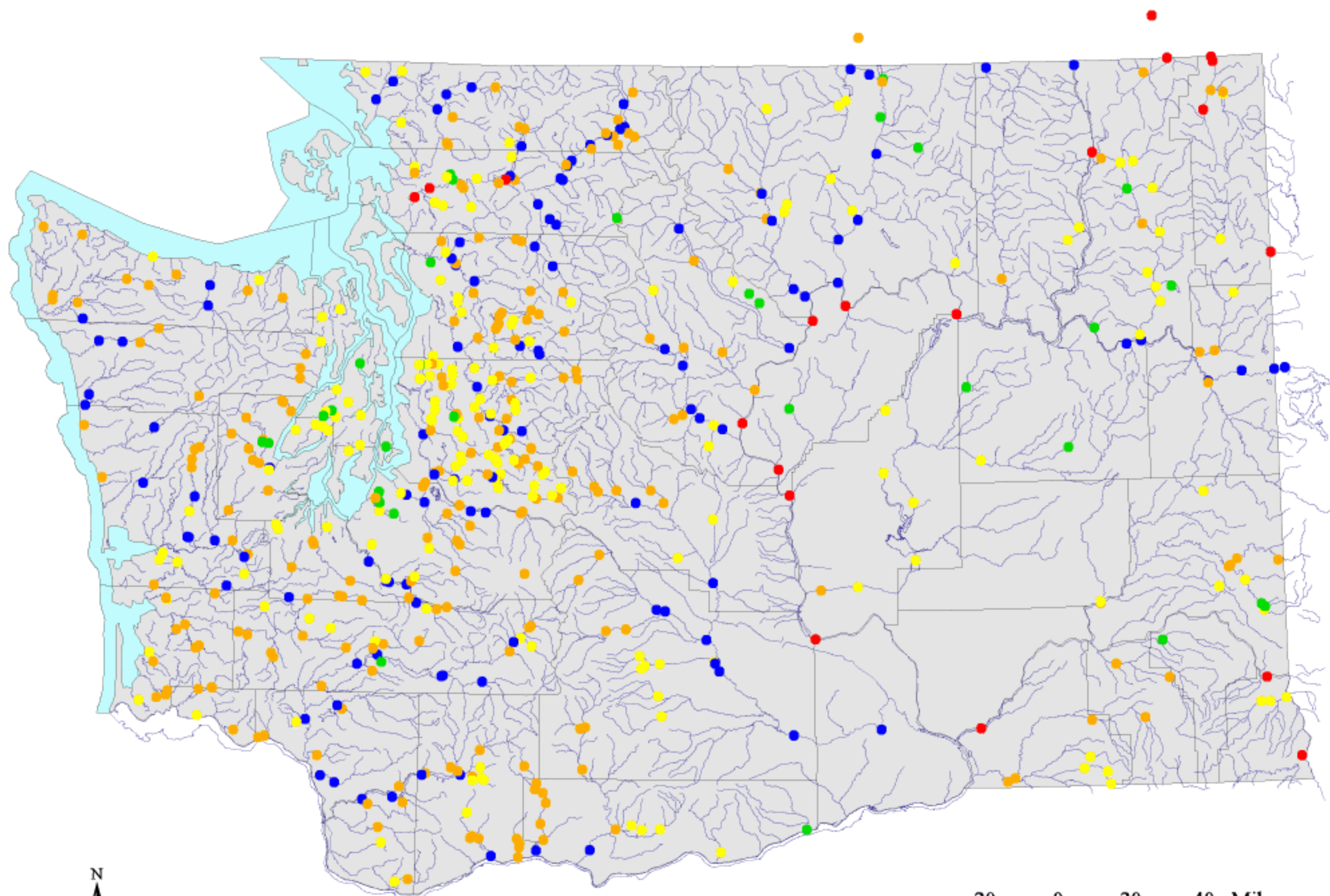
- 0 - 50
- 51 - 65
- 66 - 80
- 81 - 95
- > 95

20 0 20 40 Miles



Plate 3D  
Mean Baseflow as a %  
of Total Streamflow -  
November





Median of Annual Means -  
Total Streamflow  
(ft<sup>3</sup>/sec)

- 0 - 10
- >10 - 100
- >100 - 1000
- >1000 - 10000
- >10000

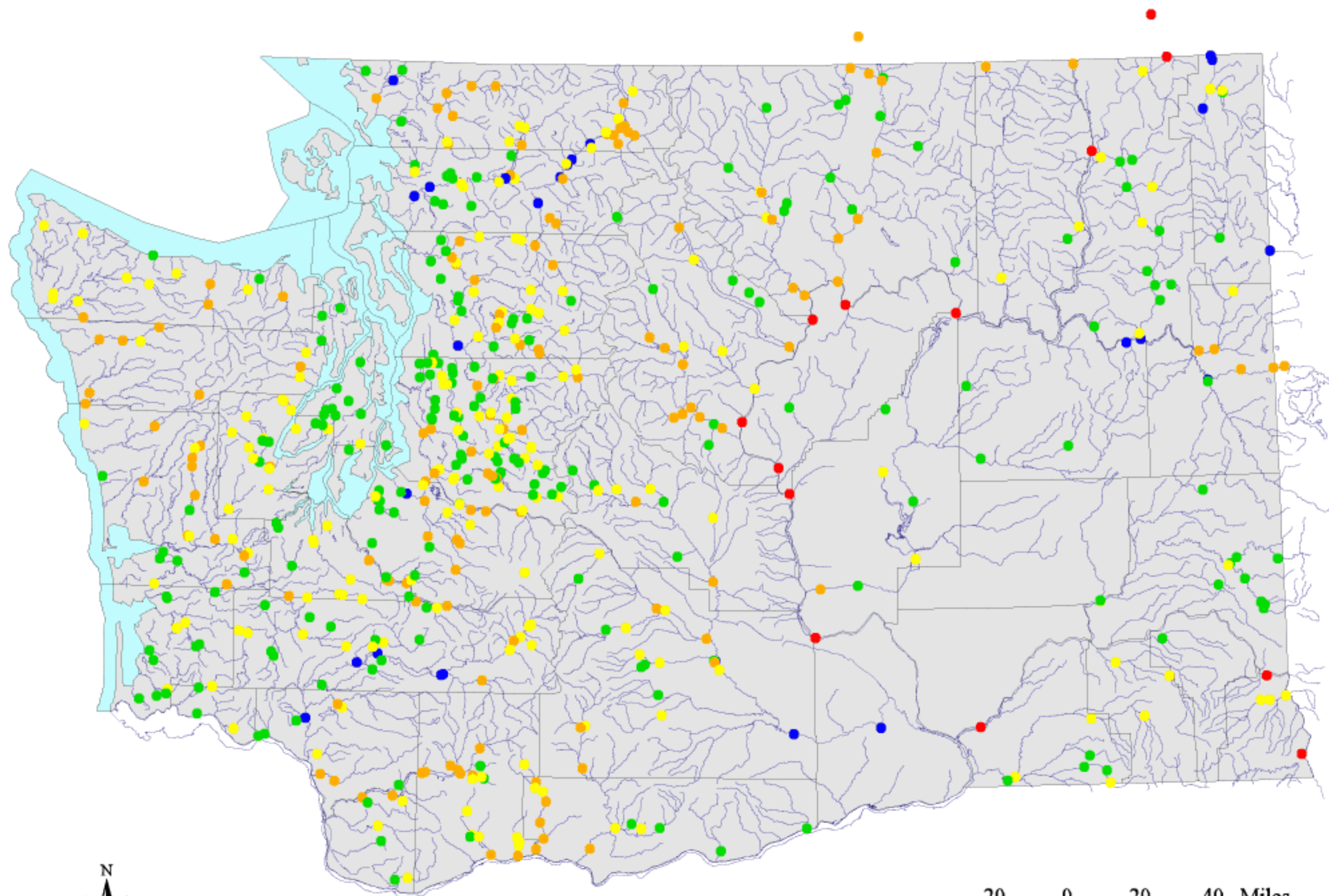


20 0 20 40 Miles

A horizontal scale bar with alternating black and white segments, marked with the numbers 20, 0, 20, and 40, representing miles.

Plate 4A  
Median of Annual Means -  
Total Streamflow  
(ft<sup>3</sup>/sec)





Median of Annual Means -  
7-Day Low Flow  
(ft<sup>3</sup>/sec)

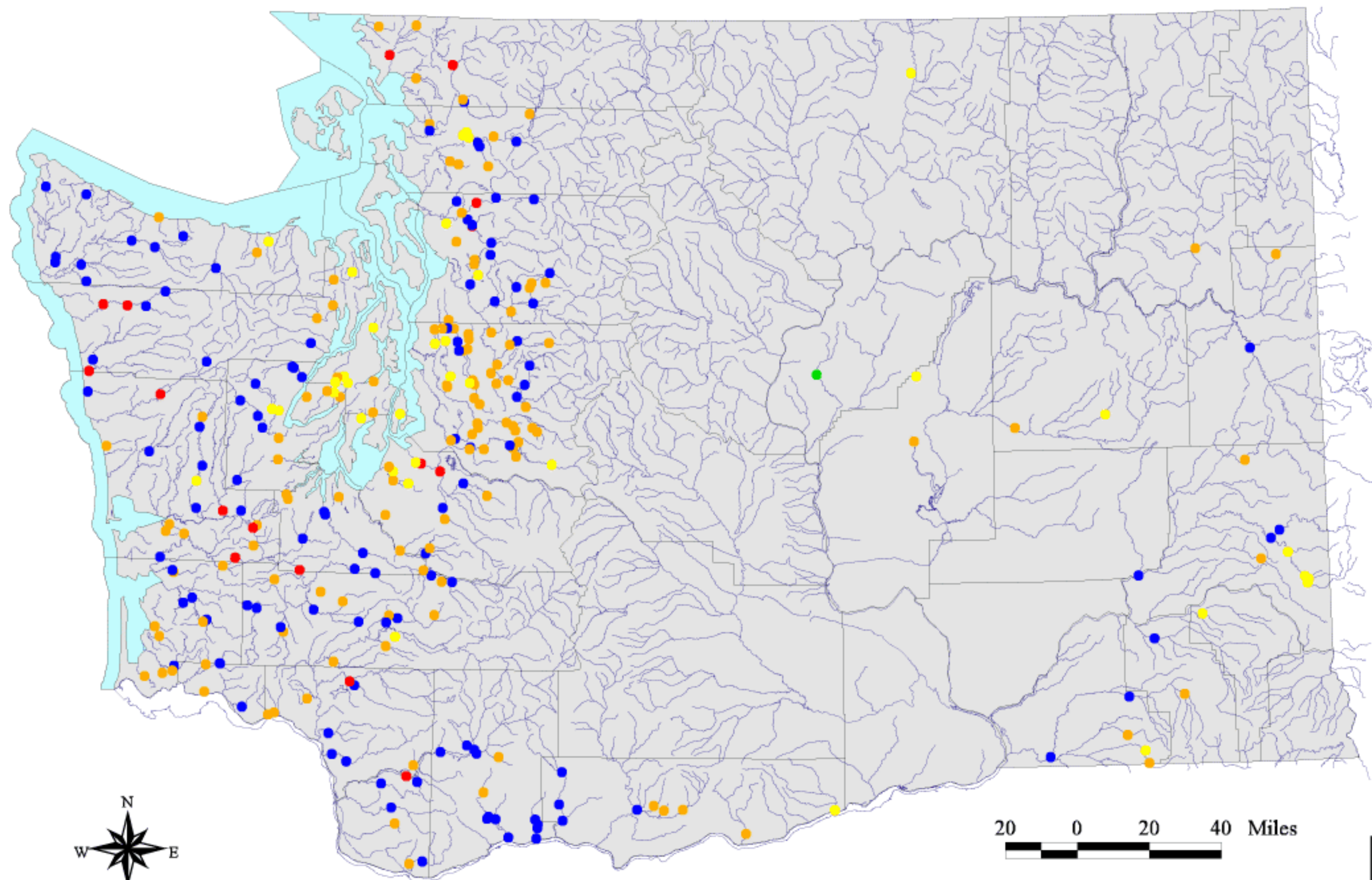
- 0 - 10
- >10 - 100
- >100 - 1000
- >1000 - 10000
- >10000



20 0 20 40 Miles

Plate 4B  
Median of Annual Means -  
7-Day Low Flow  
(ft<sup>3</sup>/sec)



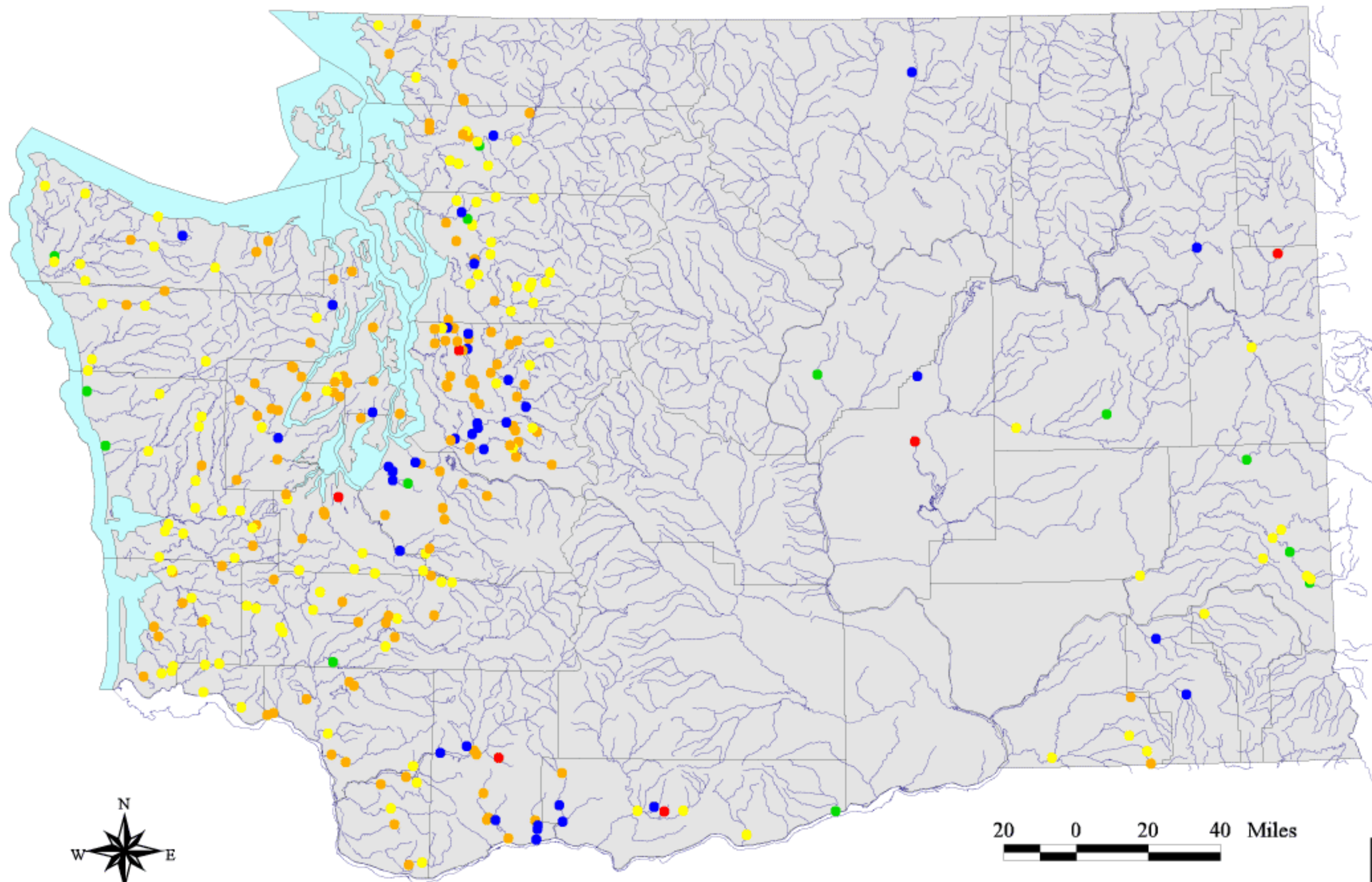


**Median of Annual Means -  
Estimated Baseflow  
(ft<sup>3</sup>/sec)**

- 0 - 1
- >1 - 10
- >10 - 100
- >100 - 1000
- >1000

**Plate 4C**  
**Median of Annual Means -**  
**Estimated Baseflow**  
**(ft<sup>3</sup>/sec)**





**Estimated Baseflow  
(as % of Streamflow)**

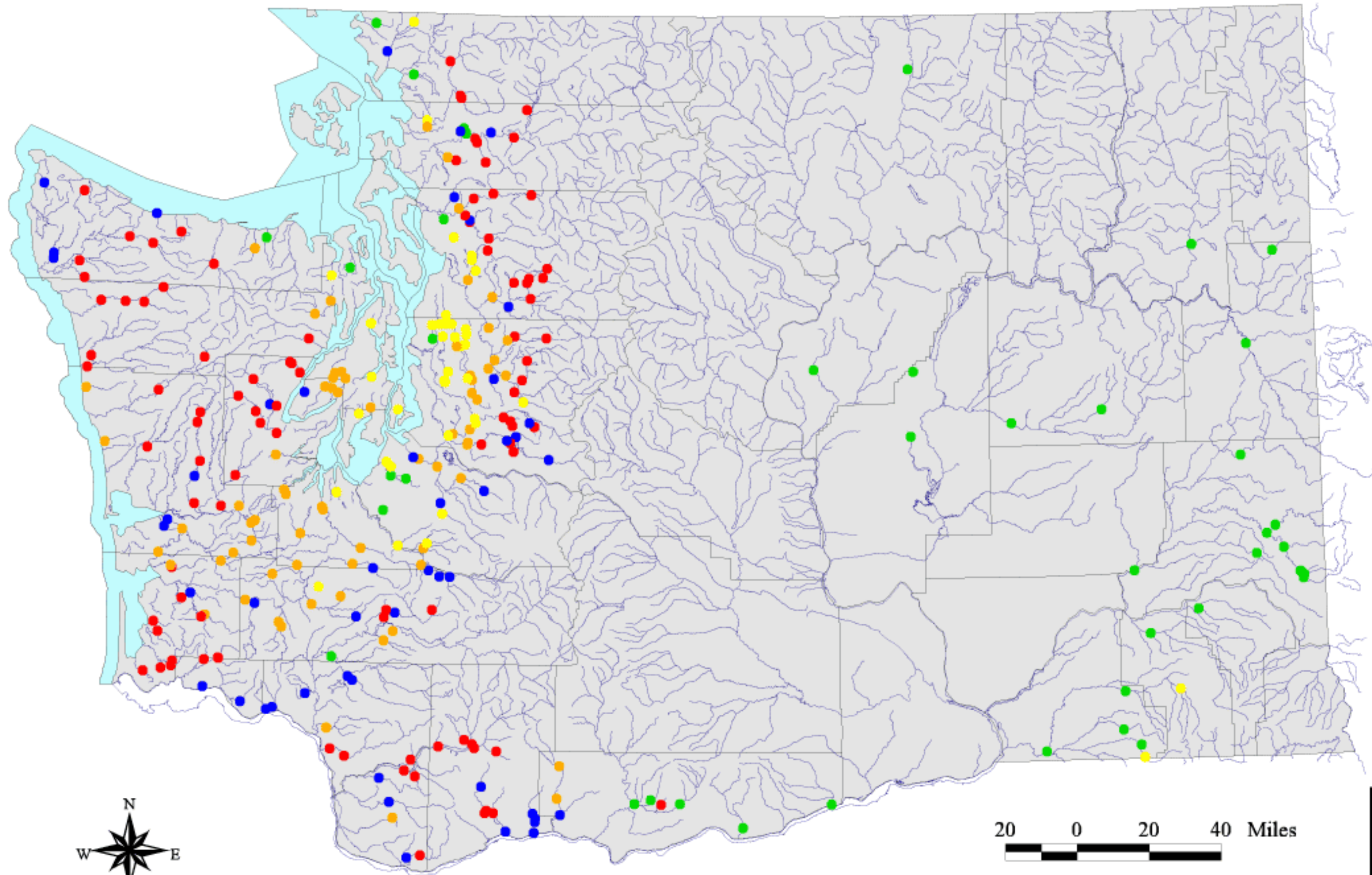
- 0 - 50
- 51 - 65
- 66 - 80
- 81 - 95
- > 95



20 0 20 40 Miles

**Plate 5A**  
**Median of Annual Means -**  
**Estimated Baseflow**  
**(as % of Total Streamflow)**





Estimated Baseflow  
(in)

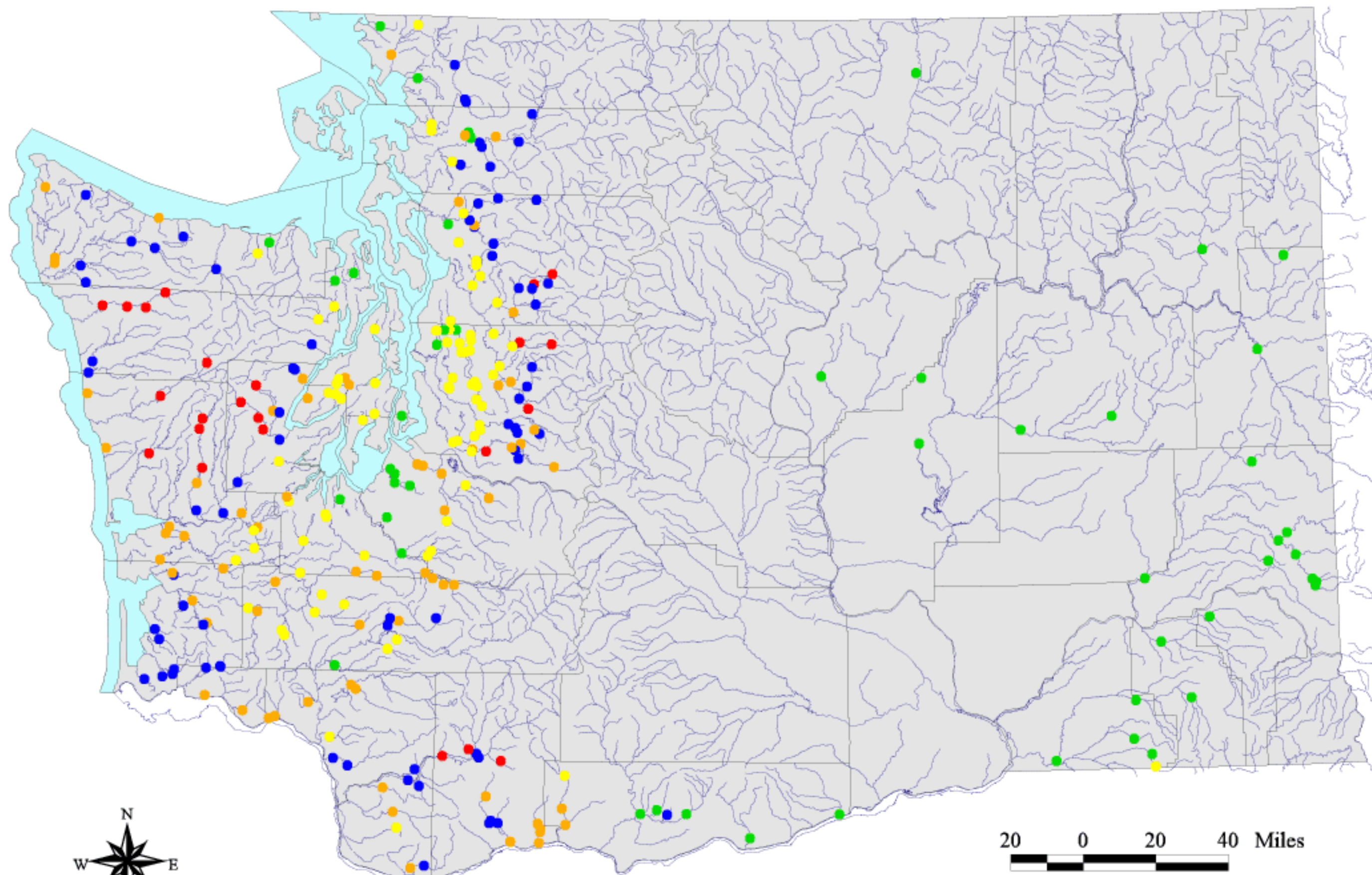
- <1 - 11
- 12 - 21
- 22 - 36
- 37 - 50
- >50



20 0 20 40 Miles

Plate 5B  
Median of Annual Means -  
Estimated Baseflow (in)





- Estimated Unit Baseflow  
(ft<sup>3</sup>/sec/mi<sup>2</sup>)**
- 0.01 - 1.1
  - 1.2 - 2.3
  - 2.4 - 3.7
  - 3.8 - 5.7
  - > 5.7

**Plate 5C**  
Median of Annual Means -  
Estimated Unit Baseflow  
(ft<sup>3</sup>/sec/mi<sup>2</sup>)