Determination of Upstream Boundaries on Western Washington Streams and Rivers Under the Requirements of the Shoreline Management Act of 1971

By David L. Kresch

U.S. Geological Survey
Water-Resources Investigations Report 96-4208

Prepared in cooperation with
WASHINGTON STATE DEPARTMENT OF ECOLOGY

Tacoma, Washington
1998

U.S. DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

U.S. GEOLOGICAL SURVEY

Thomas J. Casadevall
Acting Director

For additional information write to:

District Chief
U.S. Geological Survey
1201 Pacific Avenue - Suite 600
Tacoma, Washington 98402

Copies of this report may be purchased from:

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CONVERSION FACTORS

Multiply	By	To obtain
inch (in.)	25.4	centimeter
foot (ft)	0.3048	meter
mile (mi)	1.609	kilometer
square mile (mi^2)	2.590	square kilometer
cubic foot per second (ft^3/s)	0.02832	cubic meter per second

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ABSTRACT

Regulation of the shorelines of the State of Washington, as mandated by the Shoreline Management Act of 1971, requires a knowledge of the locations on streams and rivers (upstream boundaries) where specific regulatory criteria are satisfied. The U.S. Geological Survey conducted a study in 1971 to determine upstream boundary points for many of the State's streams. Updated upstream boundaries were determined in the current study for all streams and rivers in western Washington that come under the jurisdiction of the Shoreline Management Act of 1971. Upstream boundary point locations where the mean annual discharge was 20 cubic feet per second were determined for 1,613 streams. In addition, upstream boundary point locations where the mean annual discharge was 1,000 cubic feet per second were determined for 38 rivers of statewide significance.

Boundary point locations were determined by application of regression equations that relate mean annual discharge to drainage area and mean annual precipitation. Western Washington was divided into seven hydrologically distinct regions, and a separate regression equation was developed for each region. The regression equations are based on data for gaging stations with at least 10 years of record. The number of stations in the regression analyses for each of the seven regions ranged from 10 to 81, and the average standard errors of estimate for the resulting equations ranged from 1.7 to 5.8 cubic feet per second.

Regression equations were also developed to estimate the distances upstream or downstream from upstream boundary points to error band boundaries. The independent parameters in these equations are the average width of the drainage basin in the reach where the upstream boundary point occurs and the mean annual precipitation averaged over the drainage basin upstream of the boundary point. The number of boundary point sites used in the regression analyses for each of the seven regions ranged from 43 to 148, the R^2 (coefficient of determination) values ranged from 0.96 to 0.99, and the standard errors ranged from 7.2 to 12.6 percent.

INTRODUCTION

The Washington State legislature, in 1971, identified the shorelines of the State as being "among the most valuable and fragile of its natural resources" and expressed great concern regarding their utilization, protection, restoration, and preservation. Therefore, the legislature enacted the Shoreline Management Act of 1971 (hereafter referred to either as the Shoreline Management Act or the Act) and designated the Washington State Department of Ecology (Ecology) as the agency responsible for regulating the State's shorelines. The stream and river reaches that come under the jurisdiction of the Shoreline Management Act are those where specified regulatory discharges or drainage basin sizes are exceeded. Therefore, Ecology needs to know the locations on streams and rivers where the regulatory criteria are satisfied (upstream boundaries) to be able to properly carry out the provisions of the Act. The Act stipulates that all boundary point locations determined shall be reviewed at least once every 5 years.

The Act designates separate regulatory criteria for streams and rivers. For western Washington, the study area of this report, the Act defines shorelines as stream reaches where the mean annual discharge exceeds 20 cubic feet per second (ft^3/s) and shorelines of statewide significance as river reaches where the mean annual discharge exceeds 1,000 ft^3/s. The upstream boundary loca-

tions for both streams and rivers are defined as the points where the stream or river discharges are equal to the regulatory discharges.

Previous Investigation

The U.S. Geological Survey (USGS), in cooperation with Ecology, conducted a study in 1971 to determine the upstream boundaries on many streams throughout the State for which Ecology had regulatory responsibility (David H. Appel, U.S. Geological Survey, written commun., 1971). However, in 1990, Ecology decided that the upstream boundaries determined in the 1971 study needed to be updated for the following reasons.

1. The 1971 study did not include all streams that met the regulatory criteria.
2. The 1971 study did not determine upstream boundaries for shorelines of statewide significance.
3. In the 1971 study, if the regulatory discharge occurred upstream of certain political or jurisdictional boundaries, such as those for national forests, Indian reservations, and national parks, the Shoreline Management Act upstream boundary was placed at the political or jurisdictional boundary.
4. The 1971 study determined upstream boundaries for the regulatory discharge of 20 ft^3/s plus the standard error of the determining regression equations rather than for just the regulatory discharge itself, as in the current study.
5. Two additional decades of streamflow data collected since 1971 provide improved estimates of long-term average flow conditions.

Therefore, the USGS, in cooperation with Ecology, conducted the current study to determine the upstream boundaries on all streams and rivers in Washington west of the crest of the Cascade Range that come under the jurisdiction of the Act.

Purpose and Scope

This report presents the results of a study to determine the upstream boundaries on all streams and rivers in Washington west of the Cascade Range crest that come under the jurisdiction of the Shoreline Management Act. The upstream boundaries, as designated by the Act, are defined to occur where the mean annual discharge is equal to a regulatory discharge of either 20 ft^3/s (for shorelines) or 1,000 ft^3/s (for shorelines of statewide significance). The crest of the Cascade Range south of Mount Adams is defined such that western Washington includes the Wind River Drainage in Skamania County, but excludes the Little White Salmon and White Salmon River Drainages in Skamania and Klickitat Counties. The location of the study area is shown on figure 1.

The Muddy Fork of the Cispus River, which is the only stream in Yakima County that flows westward from the Cascade Range and has a mean annual discharge that exceeds 20 ft^3/s, was omitted from this study. The USGS and Ecology jointly agreed to include a boundary point location for the Muddy Fork in a later study, if one is conducted, that would include boundary point locations for all Yakima County streams that come under the jurisdiction of the Act.

This report describes the analytical approach used to determine upstream boundary point locations and the relative reliability of the results. The coordinates of the upstream boundary point locations are given in a series of tables, and both the boundary point locations and the drainage boundaries of the basins upstream from them are shown on three plates.

APPROACH

A direct-measurement approach could not be used in this study because (1) defining the mean annual flows by use of stream-gaging records would require continuous operation of the gages over a period of years, (2) the locations at which to gage the streams would not be known beforehand, and (3) the cost of operating the large number of gages that would be required would be economically impractical.

The most practical way to determine streamflow at ungaged sites is by transfer of information developed for gaged sites. A widely accepted approach uses multiple-linear-regression equations that relate streamflow to physical and climatic characteristics. The USGS study by Appel, in 1971, concluded that basin drainage area and mean annual precipitation were the only two basin characteristics required to determine mean annual discharge at ungaged sites. The regression equations take the form of

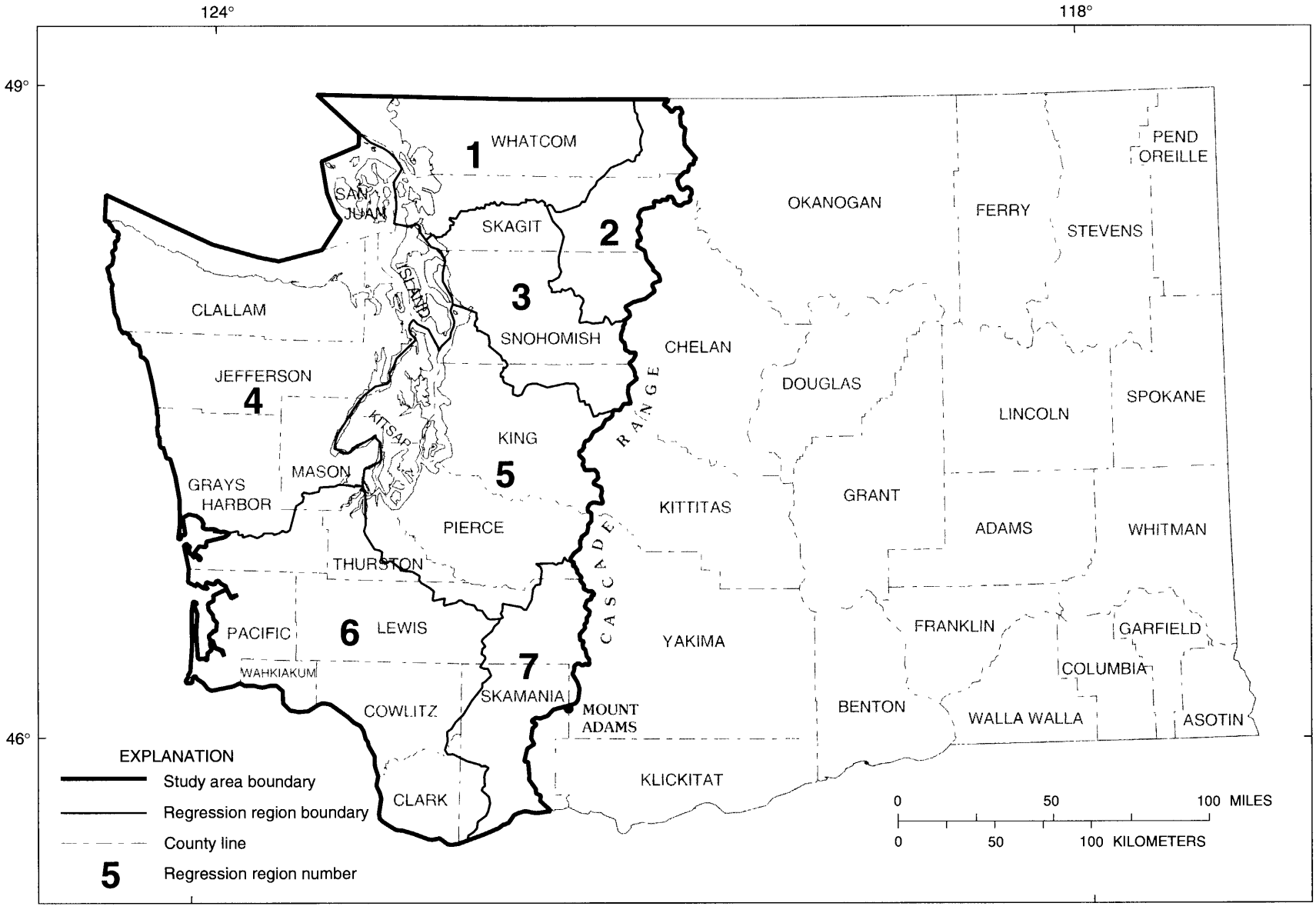

Figure 1. Location of study area and regression equation regions in Washington State.

$$Q = aA^{b}P^{c} \quad , \qquad (1)$$

where Q is mean annual discharge, A is basin drainage area, P is mean annual precipitation averaged over the basin, and a, b, and c are parameters determined in the regression analysis. The basin area A and precipitation P are those for the drainage basin upstream of the point on the stream or river at which mean annual discharge Q is desired.

In the 1971 study, the State was divided into 13 hydrologically distinct regions such that streamflow response was similar throughout each region, This allowed unique parameters a, b, and c to be determined for and applied throughout each region. The area of the current study includes only the seven regions located west of the Cascade Range crest. The regional boundaries used in the current study are, at the request of Ecology, the same ones used in the 1971 study. The locations of the seven regions are shown on figure 1, and the names used to identify them in both the 1971 study and this study are as follows.

Region number	Region name
1	Mount Baker
2	Sauk to Ruby
3	Skykomish to Stillaguamish
4	Olympic Mountains
5	Puget Sound
6	Lower Columbia
7	Mount Adams

The author of the 1971 study considered incorporating additional independent variables into equation 1, namely percentage forest cover, mean drainage basin elevation, and January minimum temperature. Other variables that might also have been used, such as soil type or the percentage of the drainage basin occupied by lakes and ponds, were not considered in the 1971 study. However, the earlier study found that including additional variables did not significantly improve the accuracy and would have greatly complicated, if not made totally impractical, the application of the equation in determining the boundary points. Using more independent variables in equation 1 would make applying the equation more difficult because values for each additional variable, many of which are not readily available, would have to be known for the drainage basins upstream of the boundary point locations. This difficulty of application, plus the result of the earlier study that accuracy was not significantly improved with more variables, suggests that the use of only basin drainage area and mean annual precipitation as independent variables in equation 1 provides satisfactory results.

Furthermore, using only the two independent variables, A and P, may be partially compensated for by splitting the State into 13 hydrologically distinct regions. By specifying different parameters in equation 1 for each region, different hydrologic responses are implied for the same basin area and precipitation among the different regions.

Equation 1 is suitable and practical for computation of mean annual discharge because the independent variables, basin area A and mean annual precipitation P, can be determined from existing maps, publications, and computerized data bases. The basin areas A for selected points along streams in Washington have been published (Richardson, 1962; Williams, 1964). The mean annual precipitation for a given basin area can be approximated by using a contour map of mean annual precipitation for Washington.

Mean annual discharges Q from all suitable gaging-station records in each of the seven regions, together with the associated basin drainage area A and mean annual precipitation P, were used in regression analyses to determine the values of the parameters a, b, and c. Setting Q equal to one of the regulatory discharges (20 or 1,000 ft^3/s) results in a relation between basin area and mean annual precipitation that must be satisfied at the boundary point (see fig. 2 for a hypothetical example).

Finding the boundary point location along an individual stream or river first involves selecting a trial point as an initial estimate of the location. The basin area contributing streamflow to that point and the mean annual precipitation over the basin are determined and entered into the appropriate regional regression equation to calculate the mean annual discharge at that point. This process is then repeated at upstream or downstream points until the calculated discharge is within 1 percent of the regulatory discharge (± 0.2 ft^3/s for shoreline boundaries and ± 10 ft^3/s for boundaries on shorelines of statewide significance).

ARC/INFO, a geographic information system (GIS) software package, was used in this study to determine the basin area and mean annual precipitation corresponding to

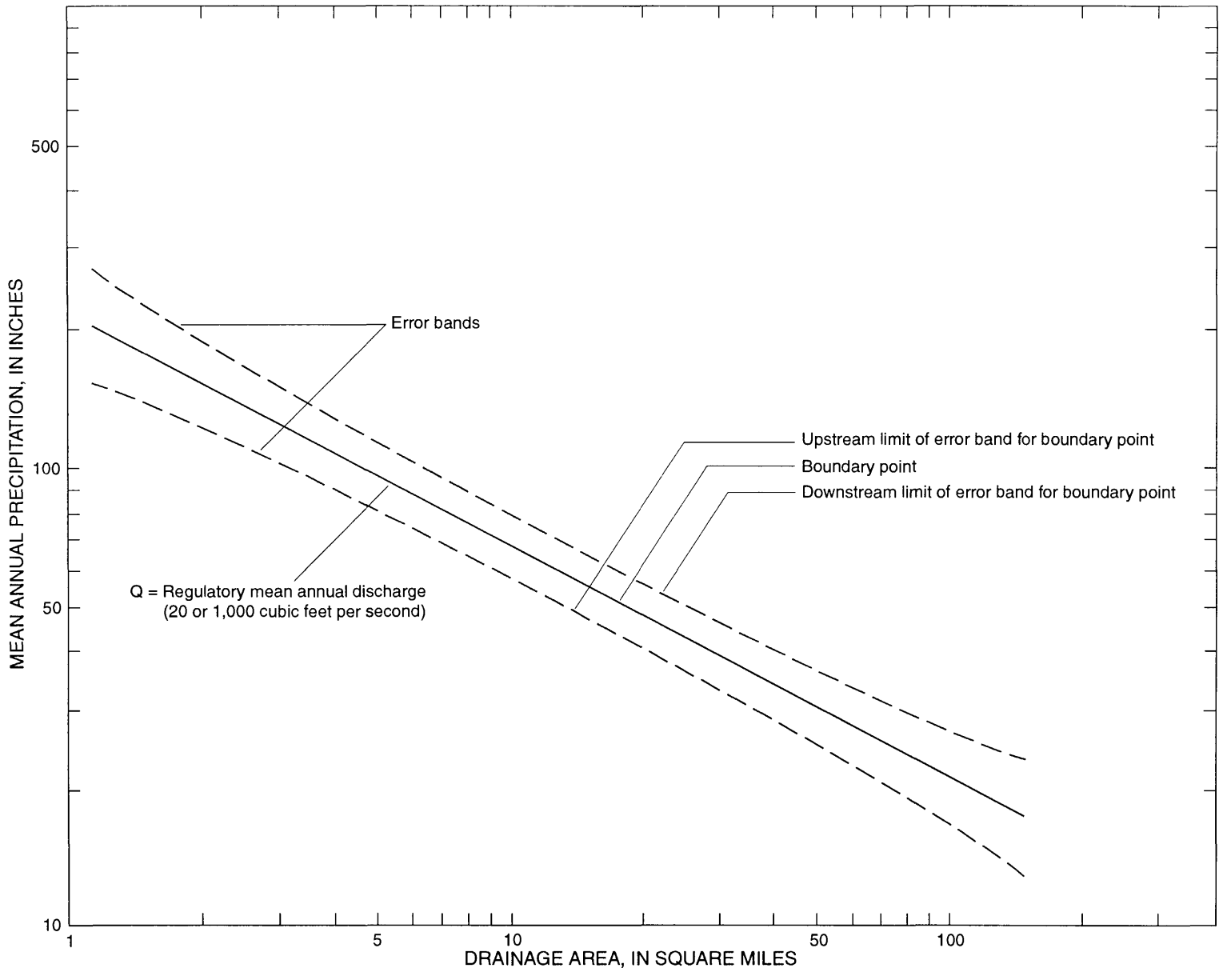

Figure 2. Hypothetical example of a relationship between mean annual discharge, mean annual precipitation, and drainage area. The dashed quadratic curves on either side of the linear line of mean annual discharge represent the upstream and downstream error band limits of the regression equation used to calculate mean annual discharge.

each trial stream or river point selected. The basin area contributing streamflow to the trial point was obtained by determining the area within a polygon representing the drainage boundary of the basin. The mean annual precipitation over the basin was then determined by overlaying and intersecting the basin polygon with an ARC/INFO coverage of mean annual precipitation.

The first step in the development of the ARC/INFO mean-annual-precipitation coverage was to digitize lines of equal mean annual precipitation from the best available such map for the State of Washington. After this was completed, a grid of point values of mean annual precipitation was generated for use with ARC/INFO in the calculation of the mean annual precipitation for delineated basin areas.

A U.S. Weather Bureau precipitation map of Washington (1965) was used to define the ARC/INFO mean-annual-precipitation coverage used in this study (plate 1). That map was developed using data for the period 1930 to 1957. Data needed for a meaningful update of that map are probably not available, because most precipitation gages are at low elevations rather than in the mountainous areas where the positioning of the lines of equal precipitation is the least well defined. It should be noted, however, that the regression itself (equation 1) compensates for any linear adjustment one might make in the logarithms of precipitation values. Suppose, for example, that adjusted values of precipitation $\hat{P}$ were determined that were related to the 1930–57 values by the equation

$$\hat{P} = dP^{e} \quad , \tag{2}$$

which is equivalent to a linear relation between the logarithms of the precipitation values. If one supposes that $\hat{P}$ should have been used in equation 1, instead of P, then the regression equation is

$$\begin{aligned} Q &= aA^{b}(\hat{P})^{c} \\ &= aA^{b}\left(dP^{e}\right)^{c} \\ &= \left(ad^{c}\right)A^{b}P^{ec} \\ &= fA^{b}P^{g} \quad . \end{aligned} \tag{3}$$

In equation 3, f, which equals ad^{c}, and g, which equals ec, are just new constants to be determined in the regression. Thus, the regression has the same form as before in terms of precipitation values P from the 1930-to-1957 map.

The mean annual precipitation corresponding to each delineated basin area is determined in ARC/INFO by overlaying and intersecting the basin coverage with the precipitation coverage to determine which precipitation points lie within the basin boundaries. The mean annual precipitation over the basin is then calculated as the average of those precipitation points.

Because of the large number of shoreline boundary points that needed to be located in the study area, the possibility of using the procedure contained in ARC/INFO for the automatic delineation of drainage basin boundaries was investigated. The procedure was tested by applying it to 33 stream basins that had previously been manually delineated and then digitized. The ARC/INFO automatic boundary delineation procedure was found not to be reliable enough to use for this study. Although 17 of the automatically delineated basins differed from the manually delineated basins by less than 10 percent, 7 of the remaining 16 differed by between 10 and 20 percent, 4 differed by between 20 and 50 percent, and 5 differed by more than 50 percent.

DEVELOPMENT OF REGIONAL REGRESSION EQUATIONS

When gaging stations were selected for use in the regression analyses, station records that predominantly span especially wet periods or periods of drought, such as those during the 1930's and 1940's, were not used because the regressions are intended to represent average rather than extreme conditions. Also, records from stations operated less than 10 years were not used. In order to provide good representation in the regressions for the conditions in each region, streamflow records for all remaining stations, except those significantly affected by regulation or diversion, were used.

The use of a common base period, such as 1937-76, for all gaging-station discharges used in the regression analyses would be desirable because it would place all mean annual discharges on a common footing. A common base period would also provide a period for the computation of the mean annual discharges that would be most representative of long-term conditions. The base period 1937-76 was determined in an earlier report by Kresch (1994) to span a cycle of below- and above-average precipitation and streamflow, and was estimated to be representative of long-term average conditions. However, using a common base period would greatly complicate the analysis because few station records span 1937-76, or any

other suitably long, representative period of hydrologic conditions. To compensate, synthetic records for most stations would have to be generated by regression on the few long-term stations spanning such a base period. Use of these regressions would mean that the mean-annual-discharge regression analyses, equation 1, would depend heavily on just a few long-term stations. Error analyses would also be greatly complicated by having to account for the errors of the regressions used to synthesize the mean annual discharges. Furthermore, even if different periods of record were used for each gaging station, the mean annual discharges used to set the values of the parameters a, b, and c in each regression (equation 1) would still represent the variety of conditions for each region. Therefore, it was preferable to use just the actual period of record available at each station.

The values of mean annual discharge, mean annual precipitation, and basin drainage area for each of the gaging-station records used to develop the regression equations for the seven regions included in this study are given in table 2 (at end of report). Also included in these tables are summary statistics for each basin characteristic.

Regression equation parameter values for each region were determined using logarithms of the values of mean annual discharge, basin drainage area, and mean annual precipitation for the gaging-station records. The regression equations determined and descriptive statistics about them are given in table 1. Average standard errors of estimate for the seven regression equations range from 8.5 percent (region 2) to 29 percent (region 1). The standard errors, expressed in terms of discharge, range from 1.7 ft^3/s to 5.8 ft^3/s when the equations are used to estimate 20 ft^3/s discharges.

Table 1. Regression equations used for the calculation of mean annual discharge for streams located in western Washington

Region	Region name	Regression equation[1]	Standard error of estimate			Number of stations
				Average		
			Log units	(Percentage)	(Cubic feet per second)[2]	
1	Mount Baker	$Q = 0.0124A^{1.05}P^{1.31}$	0.125	29	5.8	11
2	Sauk to Ruby	$Q = 0.00564A^{0.942}P^{1.50}$	0.036	8.5	1.7	10
3	Skykomish to Stillaguamish	$Q = 0.0193A^{0.923}P^{1.38}$	0.114	26	5.2	22
4	Olympic Mountains	$Q = 0.0101A^{0.985}P^{1.37}$	0.070	16	3.2	34
5	Puget Sound	$Q = 0.00808A^{0.933}P^{1.48}$	0.087	20	4.0	81
6	Lower Columbia	$Q = 0.00925A^{0.979}P^{1.44}$	0.058	13	2.6	48
7	Mount Adams	$Q = 0.0075A^{0.995}P^{1.43}$	0.072	16	3.2	33

[1]Regression region boundaries are shown on figure 1.

[2]Standard error, in cubic feet per second, if the estimated discharge is 20 cubic feet per second.

DETERMINATION OF UPSTREAM BOUNDARY POINT LOCATIONS

The steps used to find the boundary point location along a particular stream or river were as follows.

1. A trial point was selected as an initial estimate of the location of the boundary point on the stream or river.
2. The drainage-basin boundary upstream of that point was delineated on a 7.5' topographic quadrangle map.
3. The basin boundary was digitized and entered into the ARC/INFO system.
4. ARC/INFO programs were used to determine the basin area contributing streamflow to that point and the mean annual precipitation over the basin.
5. The basin area and mean annual precipitation were entered into the appropriate regional regression equation to determine the mean annual discharge at the trial point.
6. Steps 1-5 were repeated at upstream or downstream trial points until the calculated discharge was within 1 percent of the regulatory discharge (±0.2 ft^3/s for shoreline boundaries and ±10 ft^3/s for shoreline of statewide significance boundaries).

There are two conditions for which the discharge at a boundary point location may not be equal to a regulatory discharge. The first is the occurrence of an upstream boundary at the confluence of two or more tributaries, and the second is the occurrence of an upstream boundary at either the inlet or outlet of a lake.

If the individual tributary discharges at the confluence of two or more tributaries are less than the regulatory discharge and the discharge at the confluence is equal to or greater than the regulatory discharge, then the upstream boundary point is placed at the confluence. For example, if each of two tributary channels have discharges of 19 ft^3/s at their confluence, then the upstream boundary would occur at their confluence, and the discharge at the boundary would be 38 ft^3/s, the sum of the two tributary discharges. Likewise, if three tributary channels have discharges of 13, 15, and 18 ft^3/s at their confluence, the upstream boundary would be at their confluence, and the discharge at their confluence would be 46 ft^3/s, their combined discharges.

If the discharge from the outlet of a lake is greater than the regulatory discharge and the discharge of the largest inflow to the lake is less than that discharge, then the determination of the boundary point location depends on the nature of the inflow to the lake. If the inflow to the lake originates from two or more separate channels and each channel has a discharge of less than the regulatory discharge, then the upstream boundary is placed at the lake outlet and the boundary point discharge would be greater than the regulatory discharge. However, if the inflow to the lake originates primarily from a single channel, then the upstream boundary is placed at the lake inlet, and the boundary point discharge would be less than the regulatory discharge. For example, the boundary point location for a lake that has three inflow channels with discharges of 7, 13, and 19 ft^3/s would be placed at the outlet of the lake, and the stream discharge at that point would be at least 39 ft^3/s—the sum of the three inflow channel discharges. However, if a lake has only a single primary inflow channel, with a discharge of 17 ft^3/s, then the upstream boundary would be placed at the mouth of that inflow channel, and the stream discharge at that point would be 17 ft^3/s.

Boundary point locations determined on streams or rivers for which gaging-station records were available were adjusted, if necessary, on the basis of comparisons with those records. For example, if the upstream boundary determined by the appropriate regression equation for a 20 ft^3/s point was found to lie either downstream from a gaging station with a mean annual discharge of more than 20 ft^3/s or upstream from a gaging station with a discharge of less than 20 ft^3/s, then the boundary point location would need to be adjusted. The adjusted location was found by calculating an adjusted discharge and then determining the upstream boundary corresponding to that discharge. The adjusted discharge was obtained by multiplying the regulatory discharge of either 20 ft^3/s or 1,000 ft^3/s by the ratio of the discharge calculated by the appropriate regression equation for the gaging-station basin divided by the published discharge for the basin.

After the boundary point locations were determined using equation 1, they were given to Ecology. If the USGS, Ecology, local governments, or others had additional data that allowed a more accurate determination of streamflow at or near some of these locations, those boundary point locations were adjusted, if necessary, to reflect the additional information.

A total of 1,613 streams were identified in western Washington that meet the 20 ft^3/s regulatory criterion. The locations of all the upstream boundary points on these streams and of the drainage boundaries of the basins upstream from all except three of them are shown on plates 2 and 3. Latitude-longitude and Universal Transverse Mercator grid 10 coordinates for the boundary points are given in table 3 (at end of report). No upstream

boundary points were found on any of the streams in either Island or San Juan County because none of the streams in those counties have mean annual discharges that exceed 20 ft^3/s.

Plates 2 and 3 do not contain drainage basin boundaries corresponding to the boundary point locations for Anderson Creek in Whatcom County that flows into the southeast end of Lake Whatcom, McAllister Creek in Thurston County, or Clarks Creek in Pierce County for the following reasons. No drainage basin boundary is shown on plate 2 for Anderson Creek in Whatcom County (site id 3) because the upstream boundary point on that creek occurs at Mirror Lake, where imported flows from the Middle Fork Nooksack River, which exceed the regulatory discharge of 20 ft^3/s, are discharged into the creek. No drainage basin boundary is shown on plate 3 for either McAllister Creek in Thurston County (site id 7) or Clarks Creek in Pierce County (site id 10) because the upstream boundary points on these creeks are both located at springs that have mean annual discharges of more than 20 ft^3/s. McAllister Creek is fed by McAllister Springs and Clarks Creek is fed by Maplewood Springs.

A total of 39 upstream boundaries were determined for 38 rivers of statewide significance in western Washington. The locations of these boundary points and the basins upstream from them are shown on plate 4. Coordinates for these boundary point locations are given in table 4 (at end of report). The Green River has two points at which the mean annual discharge is 1,000 ft^3/s. The most upstream of the two boundary points (site id 15) occurs at gaging station 12105900, which is located about 0.7 mile downstream from Howard A. Hanson Dam. The diversion of approximately 100 ft^3/s from the river, approximately 3 miles downstream from site id 15, by the City of Tacoma for municipal water supply, results in the occurrence of a second point on the river (site id 16) where the mean annual discharge is 1,000 ft^3/s.

Plate 4 does not contain drainage basin boundaries corresponding to the Skagit River boundary point location (site id 39) because the regression equation approach was not used to establish its location. The boundary point was placed at the Washington–Canadian border on the basis of the mean annual discharge of Canadian gaging station Skagit River near Hope (approximately 1,000 ft^3/s), which is located about 4 miles north of the border. The Skagit River drainage basin increases by about 30 square miles between the gage and the border.

ERROR ANALYSES

The accuracy of the regression equations (equation 1) may be estimated by procedures described by Matalas and Gilroy (1968) and by Hardison (1971). These procedures, together with the concept of inverse regression (Draper and Smith, 1981, p. 47 and 125), allow error bands to be specified in the regression variables of area, A, and precipitation, P, for a fixed value of 20 or 1,000 ft^3/s for the discharge Q (equation 1). The error bands appear as quadratic curves on the precipitation-area graphs, on either side of the straight line for the 20 or 1,000 ft^3/s relation (fig. 2).

The locations along a particular stream channel of the error band boundaries are at the points where the mean annual discharge is greater or less than the regulatory discharge by the standard error of estimate of the regression equation. Although the locations of such points could be determined using the same procedures as used to determine regulatory discharge upstream boundary point locations, such an approach would be extremely labor intensive. Therefore, error band regression equations were developed that can be used to determine the approximate distance upstream or downstream from any regulatory boundary point location to the error band locations.

The error band regression equation for each region was developed using the drainage area and mean annual precipitation already determined for several trial boundary point locations within that region. The rationale for calculating error band distances on the basis of drainage area and mean annual precipitation at a boundary point and at an upstream or downstream trial boundary point along a stream reach is that the rate of change of these variables along the stream reach is approximately constant. Because this may not be the case at the upstream boundary point for a particular stream, the error bands thus determined are only approximations of the true error bands.

Because the goal of the error band regression analyses was to develop equations for estimating upstream or downstream distances to error band boundaries, the difference in drainage area between adjacent trial boundary point locations along a given stream was divided by the stream distance between them to determine the average width of the intervening basin. The form of the error band regression equation thus developed for each region is

$$D = aW^bP^c \quad , \tag{4}$$

Region number	Regression equation	R^2	Standard error (in percent)	Number of boundary point sites
1	$D = 402\,(W)^{-106}\,(P)^{-1.27}$	0.98	11.4	43
2	$D = 755\,(W)^{-1.04}\,(P)^{-1.62}$	0.98	11.7	68
3	$D = 673\,(W)^{-1.02}\,(P)^{-1.53}$	0.98	9.7	98
4	$D = 399\,(W)^{-1.01}\,(P)^{-1.40}$	0.98	8.9	148
5	$D = 1,830\,(W)^{-1.08}\,(P)^{-1.71}$	0.97	12.6	82
6	$D = 472\,(W)^{-1.01}\,(P)^{-1.53}$	0.99	7.2	63
7	$D = 1,260\,(W)^{-1.01}\,(P)^{-1.64}$	0.96	10.3	56

where D is the distance upstream or downstream to the error band boundaries from the upstream boundary point for a regulatory discharge, W is the average width of the drainage basin in the reach where the upstream boundary point occurs, P is the mean annual precipitation over the drainage basin upstream of the upstream boundary point, and a, b, and c are parameters determined in the regression analysis. The regression equations thus developed are as follows.

The R^2 (coefficient of determination) value shown for each equation gives the proportion of the variation in D that is explained by the regression equation. The upstream and downstream distance from a boundary point location to the error band locations for a particular stream may be determined by application of the appropriate regression equation for the region in which the stream is located.

The use of the error band regression equations to calculate upstream and downstream distances to error band boundaries is applicable, as stated previously, only to stream reaches in which drainage area and precipitation change approximately uniformly along the reach. Consequently, these equations would not usually be applicable for upstream boundary points located at the confluence of two or more tributaries where there may be an abrupt increase in drainage area at the point of confluence. Although the equations should not be used to calculate error band distances for upstream boundaries located at the confluence of two or more tributaries, they may be used to bracket the maximum probable error band distances. Actual error band distances in this case would be expected to be less than those determined by the use of the regression equations, and they would be expected to be inversely proportional to the discharge at the upstream boundary point.

SUMMARY

The Washington State Department of Ecology (Ecology) is responsible for regulation of the shorelines of the State, as mandated by the Shoreline Management Act of 1971. Implementation of the portion of the Act that deals with stream and river shorelines requires a knowledge of the locations of upstream boundaries where specific regulatory criteria are satisfied. The Act further stipulates that these upstream boundary locations shall be reviewed at least once every 5 years.

The U.S. Geological Survey, in cooperation with Ecology, conducted a study in 1971 to determine the upstream boundaries for many of the stream reaches within the State. The current study, also done in cooperation with Ecology, was conducted to update the previous study. Results of the previous study were updated because in that study the determination of boundaries for streams located within certain political boundaries and for rivers of statewide significance was omitted, because the regulatory discharge plus the standard error of the regression was used to determine boundary locations, and because the two additional decades of streamflow data that have been collected since 1971 provide improved estimates of long-term average flow conditions. The current study includes only the streams and rivers in western Washington.

Upstream boundary point locations where the mean annual discharge was 20 cubic feet per second (ft^3/s) were determined for 1,613 streams. In addition, upstream boundary point locations where the mean annual discharge was 1,000 ft^3/s were determined for 38 rivers of statewide significance. Boundary point locations were determined by application of multiple-linear-regression equations that relate mean annual discharge to basin drainage area and mean annual precipitation averaged over the basin. Western Washington was divided into seven hydrologically distinct regions, and a separate regression equation was developed for each region. The regression equations are based on data for gaging stations with at least 10 years of record. The number of stations in the regression analyses for the seven regions ranged from 10 to 81, and the standard errors of estimate for the resulting equations ranged from 1.7 ft^3/s to 5.8 ft^3/s.

Drainage area sizes were determined by digitizing drainage-area boundaries from 7.5' topographic maps into geographic information system (GIS) coverages. A GIS coverage of mean annual precipitation, created by digitizing lines of mean annual precipitation from a 1965 U.S. Weather Bureau map was used to determine the mean annual precipitation, within each digitized drainage basin.

Error band regression equations were developed that relate distances upstream or downstream between upstream boundary points and error band boundaries to the average width of the drainage basin in the reach where the boundary point occurs and to the mean annual precipitation over the drainage basin upstream of the boundary point. The values used in the regression analyses were those for basins in which drainage area and precipitation were determined for trial points prior to being determined for the final upstream boundary points. The number of boundary point sites used in the regression analyses for the seven regions ranged from 43 to 148, the R^2 values ranged from 0.96 to 0.99, and the standard errors ranged from 7.2 to 12.6 percent.

REFERENCES CITED

Draper, N.R., and Smith, H., 1981, Applied regression analysis (2d ed.): New York, John Wiley and Sons, 709 p.

Hardison, Clayton H., 1971, Prediction error of regression estimates of streamflow characteristics at ungaged sites: U.S. Geological Survey Professional Paper 750-C, p. C228-C236.

Kresch, D.L., 1994, Variability of streamflow and precipitation in Washington: U.S. Geological Survey Water-Resources Investigations Report 93-4132, 32 p.

Matalas, N.C., and Gilroy, E. J., 1968, Some comments on regionalization in hydrologic studies: Water Resources Research, v. 4, no. 6, p. 1361-1369.

Richardson, Donald, 1962, Drainage-area data for western Washington: U.S. Geological Survey Open-File Report, 244 p.

U.S. Weather Bureau, 1965, Mean Annual Precipitation, 1930-57, State of Washington: Portland, Oreg., U.S. Soil Conservation Service, map M-4430.

Williams, J.R., 1964, Drainage-area data for eastern Washington: U.S. Geological Survey Open-File Report, 197 p.

Table 2. Gaging-station records used in the development of the regression equations for the seven hydrologic regions in western Washngton

Station number	Station name	Mean annual discharge (cubic feet per second)	Mean annual precipitation (inches)	Drainage area (square miles)
	Mount Baker Region			
12177500	Stetattle Creek near Newhalem	185	92.95	22.5
12191800	Sulphur Creek near Concrete	45.0	130.86	8.13
12193500	Baker River at Concrete	2,649	121.15	297
12196000	Alder Creek near Hamilton	35.5	63.42	10.6
12197700	Wiseman Creek near Lyman	13.3	62.17	3.45
12201500	Samish River near Burlington	243	50.24	86.9
12205000	North Fork Nooksack River near Wickersham	775	105.05	105
12209000	South Fork Nooksack River near Wickersham	738	92.57	102
12209500	Skookum Creek near Wickersham	135	96.47	23.1
12210500	Nooksack River at Deming	3,328	89.88	583
12212000	Fishtrap Creek at Lynden	37.8	51.94	23.6
	Maximum	3,328	130.86	583
	Minimum	13.3	50.24	3.45
	Mean	744	86.97	115
	Median	185	92.57	23.6
	Ruby Region			
12174000	Ruby Creek near Newhalem	611	79.19	212
12175500	Thunder Creek near Newhalem	612	128.29	106
12176000	Thunder Creek near Marblemount	651	124.87	115
12178100	Newhalem Creek near Newhalem	174	120.22	26.8
12182500	Cascade River at Marblemount	1,031	124.16	172
12186000	Sauk R abv White Chuck River near Darrington	1,134	142.90	154
12187500	Sauk River at Darrington	1,984	134.43	294
12188400	Suiattle River above Big Creek near Darrington	1,794	132.17	307
12189000	Suiattle River near Mansford	1,750	130.80	335
12189500	Sauk River near Sauk	4,338	127.23	716
	Maximum	4,338	142.90	716
	Minimum	174	79.19	26.8
	Mean	1,408	124.43	244
	Median	1,082	127.76	192
	Skykomish to Stillaguamish Region			
12133000	South Fork Skykomish River near Index	2,437	124.54	358
12134000	North Fork Skykomish River at Index	1209	141.73	145
12134500	Skykomish River near Gold Bar	3,924	127.16	535
12135000	Wallace River at Gold Bar	166	80.09	18.9
12137500	Sultan River near Startup	795	115.85	74.2
12141000	Woods Creek near Monroe	155	49.24	56.4
12147500	North Fork Tolt River near Carnation	357	98.35	39.9
12147600	South Fork Tolt River near Index	55.7	129.69	5.26
12148000	South Fork Tolt River near Carnation	198	112.99	19.8
12148500	Tolt River near Carnation	609	95.31	81.4

Table 2. Gaging-station records used in the development of the regression equations for the seven hydrologic regions in western Washngton--Continued

Station number	Station name	Mean annual discharge (cubic feet per second)	Mean annual precipitation (inches)	Drainage area (square miles)
	Skykomish to Stillaguamish Region--Continued			
12152500	Pilchuck River near Granite Falls	344	65.20	52.4
12153000	Little Pilchuck River near Lake Stevens	31.0	42.98	17.0
12157000	Quilceda Creek near Marysville	25.2	39.08	15.5
12161000	South Fork Stillaguamish River near Granite Falls	1,071	102.41	119
12162500	Sough Fork Stillaguamish River above Jim Creek near Arlington	1,592	91.30	199
12164000	Jim Creek near Arlington	206	66.62	46.2
12165000	Squire Creek near Darrington	186	92.80	19.9
12166500	Deer Creek near Oso	494	90.19	65.8
12167000	North Fork Stillaguamish River nr Arlington	1,899	83.19	261
12168500	Pilchuck River near Bryant	281	64.00	52.0
12196500	Day Creek near Lyman	268	77.47	34.2
12199800	East Fork Nookachamps Creek near Big Lake	23.9	69.47	3.56
	Maximum	3924	141.73	535
	Minimum	23.9	39.08	3.56
	Mean	742	89.08	101
	Median	312	90.74	52.2
	Olympic Mountains Region			
12034200	East Fork Satsop River near Elma	374	102.03	66.4
12035000	Satsop River near Satsop	2009	110.75	299
12035400	Wynoochee River near Grisdale	518	201.53	41.0
12035450	Big Creek near Grisdale	112	175.04	9.25
12035500	Wynoochee River at Oxbow near Aberdeen	771	186.49	70.1
12036000	Wynoochee River above Save Creek near Aberdeen	821	184.65	73.5
12036650	Anderson Creek near Montesano	14.5	96.78	2.74
12039000	Humptulips River near Humptulips	1337	156.64	130
12039300	North Fork Quinault River near Amanda Park	874	204.62	74.4
12039500	Quinault River at Quinault Lake	2,833	186.70	265
12040000	Clearwater River near Clearwater	1,176	133.00	141
12040500	Queets River near Clearwater	4,224	151.34	445
12041000	Hoh River near Forks (Spruce)	2,028	171.02	207
12041200	Hoh River at U.S. Highway 101, near Forks	2,511	163.24	253
12041500	Soleduck River near Fairholm	621	98.58	83.9
12043100	Dickey River near La Push	528	101.38	86.2
12043163	Sooes River below Miller Creek near Ozette	202	104.19	32.1
12043300	Hoko River near Sekiu	408	123.83	51.2
12043430	East Twin River near Pysht	64.7	84.88	14.0
12044000	Lyre River at Piedmont	218	90.58	48.7
12045500	Elwha R at McDonald Bridge, near Port Angeles	1,500	117.37	268
12047300	Morse Creek near Port Angeles	134	57.89	46.8
12047500	Siebert Creek near Port Angeles	17.1	39.46	15.6
12048000	Dungeness River near Sequim	386	63.22	156
12050500	Snow Creek near Maynard	16.2	39.87	11.1

Table 2. Gaging-station records used in the development of the regression equations for the seven hydrologic regions in western Washngton--Continued

Station number	Station name	Mean annual discharge (cubic feet per second)	Mean annual precipitation (inches)	Drainage area (square miles)
	Olympic Mountains Region--Continued			
12053000	Dosewallips River near Brinnon	445	93.64	93.4
12054000	Duckabush River near Brinnon	414	108.40	66.1
12054500	Hamma Hamma River near Eldon	364	108.40	51.6
12054600	Jefferson Creek near Eldon	152	100.09	21.5
12056500	North Fork Skokomish River below Staircase Rapids near Hoodsport	504	160.76	56.2
12057500	North Fork Skokomish River near Hoodsport	763	144.61	92.7
12060000	South Fork Skokomish River near Potlatch	603	141.53	63.4
12060500	South Fork Skokomish River near Union	742	136.93	76.2
12076500	Goldsborough Creek near Shelton	116	88.18	39.0
	Maximum	4,224	204.62	445
	Minimum	14.5	39.46	2.74
	Mean	818	124.34	102
	Median	511	114.06	68.2
	Puget Sound Region			
12063000	Union River near Bremerton	12.2	56.10	3.19
12063500	Union River near Belfair	54.7	58.83	19.8
12065500	Gold Creek near Bremerton	5.83	58.19	1.50
12066000	Tahuya River (Creek) near Bremerton	22.3	58.76	5.98
12067500	Tahuya River (Creek) near Belfair	48.4	59.47	15.0
12068500	Dewatto River (Creek) near Dewatto	70.6	60.60	18.7
12069550	Big Beef Creek near Seabeck	37.9	55.43	13.8
12070000	Dogfish Creek near Poulsbo	8.95	35.40	4.97
12072000	Chico Creek near Bremerton	35.9	52.58	15.3
12073500	Huge Creek near Wauna	11.0	53.42	6.46
12078400	Kennedy Creek near Kamliche	61.3	60.00	17.3
12079000	Deschutes River near Rainier	266	61.22	91.0
12082500	Nisqually River near National	768	96.41	133
12083000	Mineral Creek near Mineral	369	97.75	75.2
12084000	Nisqually River near Alder	1,158	93.50	250
12084500	Little Nisqually River near Alder	118	80.59	27.7
12086500	Nisqually River at La Grande	1,428	90.35	292
12087000	Mashel River near La Grande	232	70.04	81.3
12088000	Ohop Creek near Eatonville	67.0	56.84	34.7
12088400	Nisqually River above Powell Creek near McKenna	1,888	81.43	432
12088500	Nisqually River near McKenna	1,794	80.50	445
12090200	Muck Creek at Roy	64.0	40.21	86.6
12092000	Puyallup River near Electron	524	105.11	93.2
12093000	Kapowsin Creek near Kapowsin	49.7	55.11	26.0
12093500	Puyallup River near Orting	707	83.92	170
12094000	Carbon River near Fairfax	427	91.35	78.9
12095000	South Prairie Creek at South Prairie	240	63.24	79.5
12096500	Puyallup River at Alderton	1,632	72.86	438
12097000	White River at Greenwater	863	82.62	215

Table 2. Gaging-station records used in the development of the regression equations for the seven hydrologic regions in western Washngton--Continued

Station number	Station name	Mean annual discharge (cubic feet per second)	Mean annual precipitation (inches)	Drainage area (square miles)
	Puget Sound Region--Continued			
12097500	Greenwater River at Greenwater	211	91.85	73.3
12098500	White River near Buckley	1,432	80.76	402
12099600	Boise Creek at Buckley	32.4	61.18	15.5
12101500	Puyallup River at Puyallup	3,337	73.32	949
12103400	Green River below intake Creek near Lester	128	95.64	34.7
12103500	Snow Creek near Lester	68.9	97.98	11.6
12104000	Friday Creek near Lester	27.1	83.00	4.67
12104500	Green River near Lester	383	88.78	96.3
12104700	Green Canyon Creek near Lester	12.5	71.81	3.27
12105000	Smay Creek near Lester	51.0	95.40	8.48
12105500	Charley Creek near Eagle Gorge	72.4	88.46	10.6
12105710	North Fork Green River near Lemolo	86.2	98.96	16.6
12105900	Green River below Howard A. Hanson Reservoir	1,006	87.72	221
12106000	Bear Creek near Eagle Gorge	25.7	89.95	4.08
12106500	Green River near Palmer	1,094	87.77	227
12108500	Newaukum Creek near Black Diamond	60.4	53.02	27.4
12112500	Big Soos Creek near Auburn	117	47.52	59.2
12112600	Big Soos Creek above Hatchery near Auburn	125	47.27	66.6
12113500	North Fork Cedar River near Lester	71.1	117.57	9.24
12114000	South Fork Cedar River near Lester	37.1	110.20	6.06
12114500	Cedar River below Bear Creek, near Cedar Falls	166	116.41	25.3
12115000	Cedar River near Cedar Falls	261	116.87	40.7
12115500	Rex River near Cedar Falls	103	116.02	13.4
12116500	Cedar River at Cedar Falls	320	112.06	84.2
12117000	Taylor Creek near Selleck	97.6	92.31	17.3
12117500	Cedar River near Landsburg	691	103.11	122
12120000	Mercer Creek near Bellevue	22.3	45.14	12.2
12120500	Juanita Creek near Kirkland	11.1	40.98	6.68
12121000	Issaquah Creek near Issaquah	69.6	62.83	27.0
12121600	Issaquah Creek near Issaquah	135	62.40	56.8
12122500	Bear Creek near Redmond	26.6	44.61	14.0
12124000	Evans Creek above Mouth near Redmond	22.6	45.01	12.9
12125000	Sammamish River near Redmond	287	51.87	150
12125200	Sammamish River near Woodinville	313	51.87	158
12126000	North Creek near Bothell	36.4	37.74	24.6
12126500	Sammamish River at Bothell	365	48.41	212
12127100	Swamp Creek at Kenmore	33.9	36.77	23.1
12127600	McAleer Creek at Lake Forest Park	14.9	35.92	7.81
12141300	Middle Fork Snoqualmie River near Tanner	1,237	134.56	154
12141500	Middle Fork Snoqualmie River near North Bend	1,176	130.34	168
12142000	North Fork Snoqualmie River near Snoqualmie Falls	496	125.22	64.0
12143000	North Fork Snoqualmie River near North Bend	700	116.83	95.7
12143400	South Fork Snoqualmie River above Alice Cr nr Garcia	299	118.20	41.6
12144500	Snoqualmie River near Snoqualmie	2,581	116.82	378
12145500	Raging River near Fall City	134	77.09	30.5

Table 2. Gaging-station records used in the development of the regression equations for the seven hydrologic regions in western Washngton--Continued

Station number	Station name	Mean annual discharge (cubic feet per second)	Mean annual precipitation (inches)	Drainage area (square miles)
	Puget Sound Region--Continued			
12146000	Patterson Creek near Fall City	32.2	46.64	15.3
12147000	Griffin Creek near Carnation (Tolt)	41.1	54.65	17.1
12147500	North Fork Tolt River near Carnation	357	98.35	39.9
12147600	South Fork Tolt River near Index	55.7	129.69	5.26
12148000	South Fork Tolt River near Carnation	198	112.99	19.8
12148500	Tolt River near Carnation	609	95.31	81.4
12149000	Snoqualmie River near Carnation	3,733	100.35	603
	Maximum	3,733	134.56	949
	Minimum	5.83	35.40	1.50
	Mean	444	78.49	101
	Median	125	80.59	34.7
	Lower Columbia Region			
12010000	Naselle River near Naselle	427	109.41	54.9
12010500	Salmon Creek near Naselle	114	99.68	16.7
12010700	South Fork Naselle River near Naselle	131	101.00	17.9
12011000	North Nemah River near South Bend	117	112.31	18.1
12011200	Williams Creek near South Bend	63.8	112.05	9.45
12011500	Willapa River at Lebam	193	82.57	41.7
12012000	Fork Creek near Lebam	143	93.81	20.3
12013500	Willapa River near Willapa	634	85.47	130
12014500	South Fork Willapa River near Raymond	165	97.15	27.8
12015100	Clearwater Creek near Raymond	23.7	93.16	3.96
12015500	North River near Brooklyn	112	73.04	29.7
12017000	North River near Raymond	966	83.88	218
12020000	Chehalis River near Doty	570	93.09	113
12020900	South Fork Chehalis River near Boistfort	175	79.12	44.9
12021000	South Fork Chehalis River at Boistfort	198	78.73	48.0
12024000	South Fork Newaukum River near Onalaska	200	68.91	42.4
12025000	Newaukum River near Chehalis	494	57.56	155
12025700	Skookumchuck River near Vail	198	72.22	39.8
12026000	Skookumchuck River near Centralia	247	68.32	61.4
12026150	Skookumchuck R blw Bloody Run Creek near Centralia	258	67.70	65.6
12027500	Chehalis River near Grand Mound	2,798	63.26	894
12030000	Rock Creek near Cedarville	89.0	61.29	24.7
12031000	Chehalis River at Porter	4,094	60.48	1,290
12032500	Cloquallum River (Creek) near Elma	274	72.16	64.7
14143500	Washougal River near Washougal	873	100.01	106
14212000	Salmon Creek near Battleground	62.6	69.98	18.1
14219000	Canyon Creek near Amboy	424	103.39	64.9
14219800	Speelyai Creek near Cougar	103	101.80	12.6
14221500	Cedar Creek near Ariel	169	77.27	40.8
14222500	East Fork Lewis River near Heisson	743	92.48	126

Table 2. Gaging-station records used in the development of the regression equations for the seven hydrologic regions in western Washngton--Continued

Station number	Station name	Mean annual discharge (cubic feet per second)	Mean annual precipitation (inches)	Drainage area (square miles)
	Lower Columbia Region--Continued			
14223000	Kalama River near Kalama	1,090	95.22	177
14223500	Kalama River below Italian Creek near Kalama	1,263	91.65	198
14235500	West Fork Tilton River near Morton	120	86.96	16.7
14236200	Tilton River above Canyon Creek, near Cinebar	830	84.34	140
14236500	Tilton River near Cinebar	927	83.32	156
14237000	Klickitat Creek at Mossyrock	9.80	59.93	3.30
14237500	Winston Creek near Silver Creek	116	60.63	37.9
14239000	Salmon Creek near Toledo	155	52.27	77.4
14240800	Green River above Beaver Creek near Kid Valley	497	75.20	124
14241100	North Fork Toutle River at Kid Valley	1,265	83.96	283
14241500	South Fork Toutle River at Toutle	616	95.73	120
14242500	Toutle River near Silver Lake	2,056	83.40	477
14243500	Delameter Creek near Castle Rock	91.3	65.30	19.5
14245000	Coweeman River near Kelso	427	73.63	118
14247500	Elochoman River near Cathlamet	375	90.89	65.3
14248200	Jim Crow Creek near Grays Harbor	33.6	90.56	5.49
14249000	Grays River above South Fork Grays River	344	116.57	39.8
14250500	West Fork Grays River near Grays River	127	116.15	15.7
	Maximum	4,094	116.57	1,290
	Minimum	9.80	52.27	3.30
	Mean	529	84.10	122
	Median	224	83.92	51.4
	Mount Adams Region			
14107000	Klickitat River above West Fork near Glenwood	330	57.30	152
14110000	Klickitat River near Glenwood	841	55.95	358
14112000	Little Klickitat River near Goldendale	60.1	31.62	83.4
14112500	Little Klickitat River near Wahkiacus	174	26.27	281
14113000	Klickitat River near Pitt	1,617	39.63	1300
14121300	White Salmon River below Cascades Cr nr Trout Lake	152	104.87	32.4
14121500	Trout Lake Creek near Trout Lake	264	79.02	69.0
14123000	White Salmon River at Husum	980	71.05	294
14123500	White Salmon River near Underwood	1,114	65.95	384
14124500	Little White Salmon River at Willard	450	74.36	113
14125000	Little White Salmon R abv Lapham Creek near Willard	526	74.16	116
14125500	Little White Salmon River near Cook	547	72.28	134
14127000	Wind River above Trout Creek near Carson	579	103.42	109
14128500	Wind River near Carson	1,199	98.85	224
14213200	Lewis River near Trout Lake	697	106.21	127
14213500	Big Creek below Skookum Meadow near Trout Lake	59.9	97.13	13.3
14214000	Rush Creek above Meadow Creek near Trout Lake	23.4	85.09	5.89
14214500	Meadow Cr blw Lone Butte Meadow nr Trout Lake	94.4	92.00	11.7
14215000	Rush Creek above Falls near Cougar	170	90.08	26.1
14215500	Curly Creek near Cougar	61.0	94.38	11.7

Table 2. Gaging-station records used in the development of the regression equations for the seven hydrologic regions in western Washngton--Continued

Station number	Station name	Mean annual discharge (cubic feet per second)	Mean annual precipitation (inches)	Drainage area (square miles)
	Mount Adams Region--Continued			
14216000	Lewis River above Muddy River near Cougar	1,273	104.22	225
14216500	Muddy River below Clear Creek, near Cougar	859	119.06	132
14216800	Pine Creek near Cougar	192	130.67	22.4
14217500	Swift Creek near Cougar	201	132.69	27.4
14218000	Lewis River near Cougar	2,888	113.84	484
14219500	Lewis River near Amboy	4,030	112.77	668
14224500	Clear Fork Cowlitz River near Packwood (Lewis)	237	97.38	54.9
14225500	Lake Creek near Packwood	101	105.52	19.1
14226500	Cowlitz River near Packwood	1,598	94.70	282
14230000	Johnson Creek near Packwood	201	102.54	49.7
14232500	Cispus River near Randle	1,327	83.98	322
14233400	Cowlitz River near Randle	4,868	86.38	1,030
14233500	Cowlitz River near Kosmos	4,999	86.31	1,030
	Maximum	4,999	132.69	1,300
	Minimum	23.4	26.27	5.89
	Mean	991	87.57	248
	Median	526	92.00	127

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Clallam County				
1	Albion Creek	Deadmans Hill	48 00 05	124 08 48	414,462	5,316,887
2	Alckee Creek	Slide Peak	47 58 30	123 55 41	430,732	5,313,746
3	Barnes Creek	Lake Sutherland	48 02 18	123 43 15	446,245	5,320,628
4	Bear Creek	Reade Hill	47 54 48	124 18 02	402,814	5,307,293
5	Bear Creek	Lake Pleasant	48 07 15	124 19 37	401,224	5,330,374
6	Bear Creek	Deadmans Hill	48 06 06	124 08 16	415,285	5,328,005
7	Beaver Creek	Deadmans Hill	48 07 10	124 12 59	409,462	5,330,099
8	Big River	Hoko Falls	48 12 10	124 28 49	390,011	5,339,703
9	Blackwood Creek	Slide Peak	47 58 31	123 52 40	434,483	5,313,704
10	Bockman Creek	Lake Pleasant	48 02 36	124 17 05	404,237	5,321,730
11	Bogachiel River	Bogachiel Peak	47 54 16	123 49 48	437,956	5,305,825
12	Bogachiel River, North Fork	Slide Peak	47 56 19	123 56 12	430,025	5,309,702
13	Boulder Creek	Mount Carrie	47 58 09	123 42 34	447,036	5,312,904
14	Boundary Creek	Lake Crescent	48 05 45	123 50 03	437,873	5,327,102
15	Brownes Creek	Hoko Falls	48 12 19	124 25 45	393,801	5,339,889
16	Bullman Creek	Neah Bay	48 20 41	124 31 35	386,890	5,355,528
17	Calawah River, North Fork	Snider Peak	48 01 17	124 04 31	419,821	5,319,016
18	Calawah River, South Fork	Hunger Mountain	47 55 46	124 01 40	423,223	5,309,754
19	Camp Creek	Snider Peak	48 03 30	124 01 41	423,388	5,323,092
20	Canyon Creek	Carlsborg	48 00 28	123 09 28	488,234	5,316,974
21	Cat Creek	Mount Carrie	47 55 00	123 40 12	449,929	5,307,041
22	Cedar Creek	Allens Bay	48 01 06	124 40 38	374,921	5,319,504
23	Charley Creek	Ellis Mountain	48 13 52	124 16 23	405,448	5,342,558
24	Clallam River	Ellis Mountain	48 11 18	124 19 07	401,985	5,337,868
25	Coal Creek	Quillayute Prairie	47 58 41	124 35 36	381,088	5,314,896
26	Colby Creek	Quillayute Prairie	47 57 17	124 31 42	385,889	5,312,189
27	Coville Creek	Angeles Point	48 08 02	123 36 43	454,447	5,331,169
28	Crooked Creek	Dickey Lake	48 05 36	124 33 29	383,984	5,327,641
29	Deep Creek	Snider Peak	48 06 47	124 03 01	421,820	5,329,212
30	Dickey River, East Fork	Gunderson Mountain	48 04 48	124 24 54	394,600	5,325,964
31	Dickey River, Middle Fork	Gunderson Mountain	48 06 03	124 27 52	390,969	5,328,336
32	Dry Creek	Forks	47 53 06	124 23 00	396,555	5,304,244
33	East Twin River	Mount Muller	48 06 33	123 56 31	429,875	5,328,654
34	Elk Creek	Reade Hill	47 56 48	124 18 18	402,550	5,310,992
35	Ellen Creek	La Push	47 56 12	124 38 20	377,597	5,310,345
36	Ellis Creek	Ellis Mountain	48 08 46	124 22 09	398,150	5,333,246
37	Fairchild Creek	Hurricane Hill	47 54 33	123 35 20	455,981	5,306,159
38	Goodman Creek	Snider Peak	48 00 27	124 00 00	425,399	5,317,413
39	Grand Creek	Maiden Peak	47 54 30	123 20 17	474,718	5,305,957
40	Green Creek	West of Pysht	48 11 11	124 12 43	409,912	5,337,517
41	Herman Creek	Ellis Mountain	48 09 51	124 22 18	397,983	5,335,260
42	Herman Creek, North Branch	Hoko Falls	48 10 31	124 23 06	397,024	5,336,513
43	Hoko River	Lake Pleasant	48 06 38	124 20 32	400,073	5,329,251
44	Hughes Creek	Lake Sutherland	48 01 49	123 37 46	453,068	5,319,663

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Clallam County--Continued				
45	Hyas Creek	Indian Pass	47 58 58	124 11 58	410,481	5,314,879
46	Indian Creek	Lake Sutherland	48 04 30	123 41 08	448,926	5,324,642
47	Lake Creek	Lake Pleasant	48 05 43	124 18 07	403,036	5,327,502
48	Last Creek	West of Pysht	48 14 25	124 14 54	407,302	5,343,559
49	Lillian River	Mount Angeles	47 53 39	123 23 16	470,995	5,304,398
50	Little Hoko River	Ellis Mountain	48 12 42	124 21 24	399,201	5,340,525
51	Little Quilcene River	Uncas	47 52 42	122 58 09	502,294	5,302,590
52	Little River, South Branch	Port Angeles	48 01 27	123 29 15	463,650	5,318,899
53	Lost Creek	Reade Hill	47 55 28	124 15 02	406,556	5,308,446
54	Maiden Creek	Maiden Peak	47 58 22	123 19 00	476,353	5,313,106
55	Maxfield Creek	Forks	47 54 09	124 26 52	391,797	5,306,265
56	MacDonald Creek	Carlsborg	48 02 12	123 14 30	481,974	5,320,192
57	Mill Creek	Forks	47 55 59	124 24 38	394,629	5,309,606
58	Morse Creek	Mount Angeles	47 58 55	123 23 53	470,287	5,314,175
59	Old Royal	Hoko Falls	48 10 40	124 27 09	392,005	5,336,866
60	Petroleum Creek	Ozette	48 14 40	124 40 27	375,684	5,344,636
61	Physt River	Ellis Mountain	48 08 19	124 15 45	406,074	5,332,276
62	Pilchuck Creek	Ozette	48 13 30	124 37 36	379,174	5,342,380
63	Pistol Creek	Hunger Mountain	47 59 40	124 04 09	420,231	5,316,047
64	Ponds Creek	Hoko Falls	48 08 18	124 28 51	389,813	5,332,537
65	Pysht River, South Fork	West of Pysht	48 09 23	124 07 39	416,140	5,334,084
66	Rainbow Creek	Indian Pass	47 57 16	124 10 59	411,655	5,311,730
67	Sail River	Neah Bay	48 20 02	124 34 18	383,503	5,354,405
68	Salmonberry Creek	West of Pysht	48 09 25	124 10 00	413,216	5,334,193
69	Salt Creek	Joyce	48 07 41	123 40 46	449,423	5,330,547
70	Sekiu River, North Fork	Neah Bay	48 17 17	124 32 36	385,492	5,349,250
71	Sekiu River, South Fork	Hoko Falls	48 14 55	124 27 43	391,462	5,344,753
72	Shuwah Creek	Lake Pleasant	48 01 46	124 19 34	401,126	5,320,209
73	Silver Creek	Mount Zion	47 53 34	123 06 06	492,380	5,304,184
74	Sitkum River	Hunger Mountain	47 57 55	124 01 36	423,353	5,312,737
75	Sitkum River, North Fork	Indian Pass	47 58 00	124 07 37	415,871	5,312,994
76	Skunk Creek	Gunderson Mountain	48 04 35	124 23 56	395,801	5,325,532
77	Snag Creek	Umbrella Creek	48 12 35	124 32 16	385,754	5,340,541
78	Soleduck River	Mount Carrie	47 55 50	123 44 36	444,460	5,308,650
79	Soleduck River, North Fork	Lake Crescent	48 00 13	123 45 52	442,965	5,316,779
80	Soleduck River, North Fork	Bogachiel Peak	47 59 10	123 48 09	440,117	5,314,855
81	Soleduck River, South Fork	Slide Peak	47 58 27	123 57 45	428,147	5,313,662
82	Sooes River	Umbrella Creek	48 14 31	124 32 10	385,936	5,344,120
83	Thunder Creek	Gunderson Mountain	48 02 21	124 28 04	390,591	5,321,498
84	Trout Creek	Umbrella Creek	48 08 41	124 35 15	381,893	5,333,394
85	Umbrella Creek	Umbrella Creek	48 10 53	124 34 44	382,627	5,337,462
86	Unnamed tributary to Bogachiel River	Slide Peak	47 54 21	123 53 12	433,722	5,306,017
87	Unnamed tributary to Dickey River, E.F.	Gunderson Mountain	48 00 15	124 27 25	391,308	5,317,597

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Clallam County--Continued				
88	Unnamed tributary to Long Creek	Hurricane Hill	47 53 07	123 35 22	455,914	5,303,504
89	Unnamed tributary to Maiden Creek	Maiden Peak	47 57 32	123 22 17	472,263	5,311,578
90	Waatch River	Neah Bay	48 19 13	124 36 54	380,259	5,352,944
91	West Twin River	Mount Muller	48 06 47	124 00 00	425,569	5,329,148
		Clark County				
1	Big Tree Creek	Dole	45 52 01	122 21 44	549,497	5,079,256
2	Boulder Creek	Larch Mountain	45 41 00	122 19 21	552,741	5,058,894
3	Burnt Bridge Creek	Orchards	45 38 05	122 36 04	531,084	5,053,343
4	Cedar Creek	Larch Mountain	45 44 42	122 20 33	551,144	5,065,733
5	Cedar Creek	Yale Dam	45 53 58	122 21 48	549,382	5,082,859
6	Chelatchie Creek	Amboy	45 55 30	122 22 53	547,960	5,085,689
7	Cougar Creek	Mount Mitchell	46 06 20	122 14 57	558,017	5,105,850
8	Cougar Creek	Larch Mountain	45 38 07	122 17 25	555,317	5,053,576
9	Coyote Creek	Dole	45 45 34	122 17 42	554,812	5,067,378
10	Fifth Plain Creek	Lacamas Creek	45 41 35	122 29 17	539,838	5,059,857
11	Fly Creek	Dole	45 51 49	122 15 50	557,129	5,078,960
12	Gee Creek	Ridgefield	45 47 59	122 42 16	522,962	5,071,626
13	Gibbons Creek	Washougal	45 34 38	122 18 40	553,733	5,047,107
14	Hagen Creek	Larch Mountain	45 42 21	122 15 23	557,880	5,061,428
15	King Creek	Dole	45 47 51	122 16 49	555,915	5,071,601
16	Lacamas Creek, North Fork	Lacamas Creek	45 42 21	122 24 03	546,620	5,061,345
17	Lawton Creek	Washougal	45 33 19	122 16 00	557,233	5,044,706
18	Little Washougal River, East Fork	Larch Mountain	45 39 58	122 19 25	552,682	5,056,975
19	Lockwood Creek	Ridgefield	45 51 29	122 37 34	529,012	5,078,137
20	Mason Creek	Battle Ground	45 50 30	122 35 22	531,862	5,076,350
21	Matney Creek	Lacamas Creek	45 39 45	122 25 23	544,937	5,056,494
22	Mill Creek	Battle Ground	45 45 12	122 37 05	529,700	5,066,497
23	Morgan Creek	Lacamas Creek	45 44 55	122 29 43	539,243	5,066,049
24	Pup Creek	Ariel	45 56 15	122 32 42	535,273	5,086,989
25	Rock Creek	Larch Mountain	45 44 13	122 17 13	555,471	5,064,858
26	Rock Creek	Ariel	45 52 38	122 30 26	538,240	5,080,316
27	Rock Creek	Yacolt	45 47 37	122 27 02	542,704	5,071,066
28	Salmon Creek	Yacolt	45 45 53	122 25 44	544,411	5,067,859
29	Unnamed tributary to Chelatchie Creek	Amboy	45 55 36	122 25 06	545,098	5,085,856
30	Unnamed tributary to Salmon Creek	Orchards	45 42 10	122 35 15	532,107	5,060,906
31	Whipple Creek	Ridgefield	45 45 22	122 43 39	521,185	5,066,785
32	Yacolt Creek	Yacolt	45 50 42	122 23 34	547,136	5,075,803
		Cowlitz County				
1	Alder Creek	Toutle Mountain	46 18 10	122 30 43	537,582	5,127,602
2	Arkansas Creek	Abernathy Mountain	46 19 38	123 00 43	499,064	5,130,207
3	Arnold Creek	Georges Peak	46 02 09	122 34 50	532,437	5,097,924

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude (Degrees, minutes, and seconds)	Universal Mercator Grid 10 coordinates Easting (meters)	Universal Mercator Grid 10 coordinates Northing (meters)
		Cowlitz County--Continued				
4	Baird Creek	Wolf Point	46 11 06	122 34 10	533,224	5,114,489
5	Bear Creek	Georges Peak	46 04 16	122 36 32	530,237	5,101,821
6	Bear Creek	Elk Mountain	46 11 57	122 26 59	542,445	5,116,118
7	Bear Creek	Hoffstadt Mountain	46 18 17	122 24 16	545,860	5,127,865
8	Brooks Creek	Amboy	45 59 28	122 24 20	546,016	5,093,032
9	Cameron Creek	Oak Point	46 13 53	123 11 21	485,394	5,119,564
10	Campbell Creek	Abernathy Mountain	46 21 58	123 02 19	497,023	5,134,520
11	Cape Horn Creek	Ariel	45 59 16	122 32 00	536,121	5,092,581
12	Castle Creek	Mount St. Helens	46 14 39	122 14 57	557,875	5,121,242
13	Chehalis River, South Fork	Elochoman Lake	46 21 45	123 09 08	488,279	5,134,112
14	Coal Creek	Coal Creek	46 13 32	123 04 09	494,647	5,118,924
15	Coldspring Creek	Goat Mountain	46 10 16	122 15 34	557,160	5,113,126
16	Coweeman River	Elk Mountain	46 09 45	122 29 27	539,301	5,112,038
17	Deer Creek	Hoffstadt Mountain	46 17 05	122 27 27	541,793	5,125,614
18	Delameter Creek	Kelso	46 14 36	122 59 43	500,360	5,120,900
19	Dog Creek	Cougar	46 02 32	122 18 29	553,527	5,098,758
20	Dry Creek	Cougar	46 07 11	122 18 09	553,898	5,107,379
21	Elk Creek	Lakeview Peak	46 06 27	122 29 15	539,591	5,105,918
22	Elochoman River, East Fork	Elochoman Lake	46 21 55	123 11 54	484,741	5,134,443
23	Fossil Creek	Goat Mountain	46 09 38	122 19 40	551,892	5,111,904
24	Germany Creek	Elochoman Lake	46 19 10	123 07 51	489,905	5,129,353
25	Gobar Creek	Georges Peak	46 06 38	122 35 04	532,103	5,106,224
26	Goble Creek	Woolford Creek	46 05 42	122 44 36	519,826	5,104,421
27	Goble Creek, North Fork	Hemlock Pass	46 08 25	122 42 54	521,994	5,109,483
28	Harrington Creek	Elk Mountain	46 14 18	122 25 47	543,960	5,120,478
29	Hemlock Creek	Hemlock Pass	46 14 59	122 42 44	522,180	5,121,626
30	Hoffstadt Creek	Elk Rock	46 19 43	122 21 50	548,966	5,130,562
31	Jacks Creek	Georges Peak	46 02 53	122 31 36	536,602	5,099,291
32	Jim Creek	Ariel	45 59 22	122 30 42	537,814	5,092,779
33	Johnson Creek	Toutle	46 18 23	122 37 34	528,775	5,127,944
34	Kalama River, North Fork	Elk Mountain	46 09 13	122 24 06	546,203	5,111,093
35	Langdon Creek	Lakeview Peak	46 06 25	122 26 14	543,481	5,105,873
36	Little Kalama River	Woodland	45 59 30	122 40 27	525,214	5,092,981
37	Maratta Creek	Elk Rock	46 17 45	122 16 47	555,468	5,126,985
38	Monahan Creek	Abernathy Mountain	46 17 48	123 02 47	496,422	5,126,806
39	Mulholland Creek	Hemlock Pass	46 12 02	122 38 46	527,293	5,116,196
40	Ordway Creek	Elochoman Lake	46 18 05	123 11 49	484,817	5,127,351
41	Ostrander Creek	Mount Brynion	46 13 45	122 47 58	515,443	5,119,321
42	Ostrander Creek, South Fork	Mount Brynion	46 10 59	122 51 03	511,499	5,114,193
43	Owl Creek	Kalama	46 05 36	122 51 31	510,914	5,104,213
44	Panamaker Creek	Cougar	46 04 06	122 17 44	554,476	5,101,687
45	Rock Creek	Lakeview Peak	46 01 20	122 27 45	541,596	5,096,444
46	Salmon Creek	Castle Rock	46 15 28	122 53 09	508,791	5,122,498
47	Shultz Creek	Elk Rock	46 21 04	122 16 24	555,903	5,133,118

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Cowlitz County--Continued				
48	Speelyai Creek	Cougar	46 02 15	122 20 28	550,972	5,098,216
49	Speelyai Creek, West Fork	Cougar	46 02 36	122 21 58	549,039	5,098,871
50	Spruce Creek	Oak Point	46 11 39	123 12 08	484,393	5,115,454
51	Stillwater Creek	Wildwood	46 22 48	123 05 55	492,401	5,136,057
52	Studebaker Creek	Toutle	46 17 49	122 40 57	524,451	5,126,882
53	Sucker Creek	Silver Lake	46 15 55	122 48 39	514,571	5,123,334
54	Toutle River, South Fork	Goat Mountain	46 12 27	122 16 05	556,454	5,117,155
55	Trouble Creek	Elk Mountain	46 11 53	122 22 41	547,979	5,116,040
56	Unnamed tributary to Green River	Winters Mountain	46 22 46	122 21 43	549,057	5,136,205
57	Unnamed tributary to Speelyai Creek	Lakeview Peak	46 01 03	122 22 40	548,150	5,095,969
58	Unnamed tributary to Toutle River, S.F.	Goat Mountain	46 13 28	122 19 30	552,060	5,119,009
59	Unnamed tributary to Toutle River, S.F.	Goat Mountain	46 12 37	122 15 03	557,780	5,117,465
60	Unnamed tributary to Toutle River, S.F.	Goat Mountain	46 12 27	122 19 50	551,637	5,117,118
61	Unnamed tributary to Coweeman River	Elk Mountain	46 10 04	122 28 44	540,233	5,112,611
62	Unnamed tributary to Kalama River	Cougar	46 05 04	122 22 20	548,532	5,103,415
63	Unnamed tributary to Kalama River, N.F.	Elk Mountain	46 08 25	122 25 04	544,959	5,109,597
64	Unnamed tributary to Shultz Creek	Elk Rock	46 22 12	122 17 45	554,155	5,135,194
65	Unnamed tributary to Toutle River, S.F.	Wolf Point	46 14 05	122 31 35	536,514	5,120,028
66	Unnamed tributary to Toutle River, S.F.	Elk Mountain	46 13 09	122 25 21	544,539	5,118,362
67	Unnamed tributuary to Fossil Creek	Goat Mountain	46 09 32	122 21 07	550,036	5,111,710
68	Unnamed tributary to Kalama River	Goat Mountain	46 08 33	122 19 19	552,364	5,109,883
69	Wild Horse Creek	Woolford Creek	46 04 35	122 39 00	527,059	5,102,390
70	Wolf Creek	Lakeview Peak	46 03 46	122 26 13	543,532	5,100,956
71	Wyant Creek	Toutle Mountain	46 20 41	122 37 17	529,130	5,132,216
		Grays Harbor County				
1	Anderson Creek	Grisdale	47 22 09	123 36 13	454,413	5,246,152
2	Andrews Creek	Grayland	46 49 00	124 00 51	422,625	5,185,075
3	Big Creek, E.F.	Colonel Bob	47 25 16	123 38 43	451,318	5,251,954
4	Big Creek, South Branch	Humptulips	47 09 56	123 52 33	433,610	5,223,735
5	Big Creek, W.F.	Colonel Bob	47 24 20	123 39 38	450,156	5,250,249
6	Bitter Creek	Wynoochee Valley SW	47 04 40	123 38 05	451,807	5,213,805
7	Black Creek	Wynoochee Valley SW	47 03 11	123 37 38	452,353	5,211,044
8	Boone Creek	Moclips	47 10 27	124 08 02	414,069	5,224,933
9	Boulder Creek	Lake Quinault West	47 25 38	123 53 25	432,837	5,252,827
10	Boulder Creek	Thimble Mountain	47 27 38	124 01 47	422,376	5,256,673
11	Brittain Creek	Railroad Camp	47 13 21	123 51 45	434,689	5,230,033
12	Burg Slough	Copalis Crossing	47 03 47	124 02 16	421,173	5,212,488
13	Camp Creek	Thimble Mountain	47 26 29	124 00 19	424,195	5,254,501
14	Camp Creek	O'Took Prairie	47 23 32	124 14 58	405,704	5,249,315
15	Cannings Creek	Bunch Lake	47 30 32	123 39 38	450,245	5,251,721
16	Carter Creek	Wynoochee Valley NE	47 09 34	123 36 56	453,337	5,222,864
17	Cedar Creek	O'Took Prairie	47 27 41	124 08 11	414,343	5,256,851
18	Charley Creek	Aberdeen	46 55 31	123 45 52	441,800	5,196,950

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude (Degrees, minutes, and seconds)	Universal Mercator Grid 10 coordinates Easting (meters)	Universal Mercator Grid 10 coordinates Northing (meters)
		Grays Harbor County--Continued				
19	Chenois Creek	Copalis Crossing	47 02 53	124 00 10	423,824	5,210,777
20	Chester Creek	Lake Quinault East	47 25 55	123 46 44	441,249	5,253,248
21	Chikamin Creek	Mount Hoquiam	47 30 08	123 33 38	457,765	5,260,919
22	Cook Creek	Stevens Creek	47 22 23	123 54 18	431,677	5,246,829
23	Copalis Creek	Stevens Creek	47 16 57	123 58 59	425,635	5,236,827
24	Crane Creek	Otook Prairie	47 28 21	124 07 57	414,649	5,258,090
25	Damon Creek	Carlisle	47 07 53	124 02 38	420,815	5,220,082
26	Davis Creek	New London	47 04 42	123 56 32	428,458	5,214,116
27	Deep Creek	New London	47 06 50	123 56 44	428,263	5,218,034
28	Delezene Creek	South Elma	46 55 28	123 26 24	466,493	5,196,651
29	Donkey Creek	Burnt Hill	47 19 59	123 47 11	440,568	5,242,273
30	Dry Creek	Lake Quinault West	47 28 23	123 56 41	428,797	5,257,972
31	Duck Creek	Tunnel Island	47 23 04	124 17 38	402,327	5,248,504
32	Elk Creek	Stevens Creek	47 20 08	123 59 24	425,200	5,242,739
33	Elk River, East Branch	Western	46 48 16	123 56 17	428,420	5,183,663
34	Elkhorn Creek	Elkhorn Creek	46 47 58	123 39 17	450,032	5,182,883
35	Fairchild Creek	Humptulips	47 11 00	123 56 02	429,228	5,225,764
36	Falls Creek	Lake Quinault East	47 27 08	123 50 25	436,639	5,255,554
37	Falls Creek	Larsen Creek	47 20 36	123 39 53	449,775	5,243,334
38	Fletcher Canyon	Bunch Lake	47 30 00	123 42 46	446,307	5,260,765
39	Garrard Creek	Cedarville	46 48 07	123 20 11	474,323	5,183,013
40	Gibson Creek	Malone	46 54 11	123 16 31	479,028	5,194,230
41	Grouse Creek	Burnt Hill	47 22 10	123 49 17	437,965	5,246,355
42	Hansen Creek	Humptulips	47 11 33	123 57 09	427,839	5,226,784
43	Harlow Creek	Salmon River West	47 32 01	124 14 21	406,719	5,265,012
44	Harris Creek	Larsen Creek	47 22 06	123 40 03	449,586	5,246,122
45	Hathaway Creek	Lake Quinault West	47 23 08	123 55 32	430,119	5,248,220
46	Helm Creek	Wynoochee Valley SW	47 05 46	123 41 11	447,895	5,215,871
47	Hoquiam River, East Fork	Railroad Camp	47 11 07	123 50 09	436,657	5,225,901
48	Hoquiam River, Middle Fork	Aberdeen Gardens	47 06 25	123 51 01	435,467	5,217,190
49	Hoquiam River, West Fork	New London	47 06 12	123 54 20	431,276	5,216,849
50	Howe Creek	Mount Hoquiam	47 30 19	123 36 12	454,553	5,261,295
51	Humptulips River, East Fork	Colonel Bob	47 26 40	123 38 00	452,241	5,254,540
52	Humptulips River, West Fork	Colonel Bob	47 29 02	123 38 15	451,953	5,258,932
53	Joe Creek	Carlisle	47 13 36	124 04 52	418,146	5,230,704
54	Joe Creek	Thimble Mountain	47 23 44	124 04 19	419,105	5,249,475
55	Joe Creek	Elkhorn Creek	46 50 16	123 44 07	443,923	5,187,206
56	Johns River, North Fork	Hoquiam	46 53 18	123 52 48	432,954	5,192,929
57	Johns River, South Fork	Western	46 50 58	123 53 20	432,224	5,188,601
58	Kestner Creek	Finley Creek	47 30 14	123 49 26	437,949	5,261,274
59	Larsen Creek	Larsen Creek	47 19 58	123 39 28	450,299	5,242,155

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Grays Harbor County--Continued				
60	Little Hoquiam River, North Fork	Hoquiam	46 59 59	123 55 29	429,691	5,205,349
61	Little North River	Montesano	46 54 48	123 36 14	454,016	5,195,515
62	Little River	Grisdale	47 18 28	123 32 24	459,176	5,239,312
63	Lower Salmon Creek	Elkhorn Creek	46 49 16	123 41 43	446,950	5,185,308
64	Lunch Creek	Thimble Mountain	47 27 41	124 05 41	417,482	5,256,798
65	McCalla Creek	Lake Quinault West	47 25 17	123 54 07	431,947	5,252,195
66	Meadow Creek	O'Took Prairie	47 26 04	124 08 35	413,803	5,253,877
67	Metcalf Slough	Montesano	46 58 33	123 33 39	457,335	5,202,445
68	Moclips River	Macaffee Hill	47 16 04	124 04 58	418,073	5,235,277
69	Moclips River, North Fork	Macaffee Hill	47 18 00	124 04 47	418,364	5,238,863
70	Mounts Creek	Macaffee Hill	47 19 14	124 05 20	417,704	5,241,148
71	Mox Chehalis Creek	Mc Cleary	47 02 31	123 15 02	480,960	5,209,651
72	Neil Creek	Wynoochee Valley NW	47 14 45	123 37 51	452,238	5,232,462
73	Newbury Creek	Burnt Hill	47 19 57	123 50 41	436,162	5,242,250
74	Newman Creek	Elma	47 01 55	123 26 36	466,298	5,208,593
75	Newskah Creek	Aberdeen	46 53 44	123 47 31	439,654	5,193,672
76	Noname Creek	Shale Slough	47 22 17	124 09 54	412,045	5,246,888
77	North River, East Fork	Aberdeen SE	46 50 48	123 49 05	437,613	5,188,255
78	O'Took Creek	O'Took Prairie	47 23 09	124 08 08	414,282	5,248,460
79	Parker Creek	Wynoochee Valley NW	47 14 13	123 43 38	444,943	5,231,557
80	Petes Creek	Colonel Bob	47 27 35	123 43 49	444,946	5,256,303
81	Phillips Creek	Lake Quinault East	47 23 17	123 49 24	437,847	5,248,425
82	Pioneer Creek	Blue Mountain	46 50 37	123 29 28	462,540	5,187,702
83	Porter Creek, South Fork	Capitol Peak	46 58 33	123 13 53	482,381	5,202,294
84	Porter Creek, West Fork	Capitol Peak	46 59 54	123 14 24	481,736	5,204,796
85	Prairie Creek	Matheny Ridge	47 30 24	123 55 36	430,217	5,261,683
86	Raft River, North Fork	Salmon River East	47 30 49	124 05 58	417,195	5,262,622
87	Raft River, South Fork	O'Took Prairie	47 26 05	124 10 16	411,684	5,253,937
88	Railroad Creek	Shale Slough	47 20 48	124 10 21	411,433	5,244,160
89	Raimie Creek, Right Fork	Blue Mountain	46 49 15	123 24 34	468,757	5,185,125
90	Raney Creek	Railroad Camp	47 12 26	123 46 57	440,735	5,228,282
91	Red Creek	Macaffee Hill	47 20 29	124 01 47	422,203	5,243,422
92	Rock Creek	South Elma	46 52 33	123 23 46	469,798	5,191,234
93	Salmon Creek	Montesano	46 52 39	123 35 58	454,317	5,191,524
94	Salmon River, South Fork	Salmon River East	47 30 35	124 01 31	422,795	5,262,113
95	Sand Creek	Mc Cleary	47 00 47	123 18 34	476,471	5,206,474
96	Satsop River, West Fork	Wynoochee Lake	47 25 16	123 31 36	460,272	5,251,888
97	Save Creek	Larsen Creek	47 18 20	123 38 08	451,957	5,239,124
98	Scatter Creek	Wynoochee Lake	47 24 15	123 35 52	454,890	5,250,035
99	Schafer Creek	Wynoochee Valley NE	47 14 28	123 36 52	453,492	5,231,945
100	Smith Creek	Wynoochee Valley NE	47 08 02	123 31 23	460,326	5,219,967
101	Spoon Creek	Grisdale	47 21 35	123 32 53	458,607	5,245,079
102	Stevens Creek	Stevens Creek	47 20 03	123 52 46	433,546	5,242,457

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Grays Harbor County--Continued				
103	Stevens Creek, West Fork	Stevens Creek	47 17 12	123 56 38	428,619	5,237,260
104	Still Creek	Prices Peak	47 04 51	123 34 38	456,176	5,214,112
105	Sylvia Creek	Montesano	46 59 50	123 36 19	453,970	5,204,826
106	Ten O'Clock Creek	Thimble Mountain	47 27 57	124 00 29	424,020	5,257,229
107	Trout Creek	Wynoochee Lake	47 26 38	123 35 38	455,206	5,254,443
108	Unnamed tributary to Boulder Creek	Thimble Mountain	47 26 26	124 03 41	419,958	5,254,463
109	Unnamed trib., Humptulips River	Colonel Bob	47 28 16	123 40 09	449,557	5,257,531
110	Unnamed trib., Humptulips R., E.F.	Larsen Creek	47 21 24	123 43 54	444,738	5,244,854
111	Unnamed trib., Humptulips R., W.F.	Lake Quinault East	47 25 04	123 45 14	443,116	5,251,647
112	Unnamed trib.. Humptulips R., W.F.	Colonel Bob	47 26 27	123 45 00	443,452	5,254,240
113	Unnamed tributary to Joe Creek	Moclips	47 13 40	124 08 08	414,034	5,230,887
114	Unnamed tributary to Joe Creek	Moclips	47 04 28	124 08 13	413,680	5,213,850
115	Unnamed tributary to Joe Creek	Moclips	47 04 05	124 07 48	414,186	5,213,131
116	Unnamed tributary to Joe Creek	Moclips	47 07 19	124 08 42	413,131	5,219,142
117	Unnamed tributary to North River	Aberdeen SE	46 49 07	123 47 58	439,010	5,185,121
118	Unnamed tributary to Red Creek	Tunnel Island	47 26 02	124 16 43	403,563	5,253,970
119	Unnamed tributary to Salmon Creek	Central Park	46 53 05	123 39 18	450,099	5,192,364
120	Unnamed trib., Wildcat Creek, E.F.	Mc Cleary	47 03 45	123 17 37	477,694	5,211,948
121	Unnamed tributary to Wishkah River	Wynoochee Valley NW	47 13 13	123 42 09	446,813	5,229,693
122	Unnamed tributary to Wishkah River	Larsen Creek	47 16 04	123 42 07	446,885	5,234,955
123	Unnamed tributary to Wynoochee River	Larsen Creek	47 16 26	123 39 18	450,447	5,235,593
124	Unnamed tributary to Donkey Creek	Burnt Hill	47 19 15	123 47 18	440,404	5,240,923
125	Unnamed tributary to Cook Creek	Stevens Creek	47 20 07	123 57 55	427,068	5,242,674
126	Vance Creek	South Elma	46 59 41	123 24 36	468,824	5,204,445
127	Vesta Creek, East Fork	South Elma	46 52 55	123 29 47	462,164	5,191,949
128	Vesta Creek, West Fork	Montesano	46 53 59	123 31 55	459,470	5,193,956
129	Wedekind Creek	Wynoochee Valley SW	47 01 53	123 43 49	444,503	5,208,700
130	Whale Creek	Tunnel Island	47 29 20	124 18 03	401,989	5,260,110
131	Whale Creek, North Fork	Queets	47 30 19	124 19 16	400,503	5,261,973
132	Wildcat Creek, East Fork	Mc Cleary	47 03 12	123 17 06	478,352	5,210,916
133	Wildcat Creek, West Fork	Mc Cleary	47 03 11	123 19 06	475,811	5,210,913
134	Willaby Creek	Lake Quinault East	47 25 54	123 50 09	436,948	5,253,284
135	Williams Creek	Cedarville	46 51 30	123 20 10	474,367	5,189,272
136	Wishkah River	Larsen Creek	47 17 43	123 43 00	445,801	5,238,020
137	Wishkah River, East Fork	Wynoochee Valley NW	47 11 51	123 40 53	448,367	5,227,113
138	Wishkah River, West Fork	Railroad Camp	47 14 27	123 46 55	440,806	5,232,031
139	Wolf Creek	O'Took Prairie	47 29 36	124 14 04	407,009	5,260,522
140	Workman Creek	South Elma	46 56 06	123 28 35	463,727	5,197,840
141	Wreck Creek	Shale Slough	47 17 14	124 13 23	407,496	5,237,604
142	Wright Canyon	Lake Quinault East	47 29 00	123 49 13	438,184	5,259,013
143	Wynoochee River, North Fork, West Branch	Wynoochee Lake	47 29 07	123 35 44	455,112	5,259,051
144	Wynoochee River, West Branch	Wynoochee Lake	47 27 57	123 36 37	453,997	5,256,916
145	Ziegler Creek	Lake Quinault East	47 28 26	123 46 34	441,501	5,257,900

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Jefferson County				
1	Alder Creek	Winfield Creek	47 49 51	124 13 31	408,295	5,29?,030
2	Alta Creek	Kimta Peak	47 39 50	123 42 48	446,423	5,27?,972
3	Anderson Creek	Anderson Creek	47 46 23	124 19 19	400,943	5,291,730
4	Anderson Creek	Mount Steel	47 41 52	123 21 38	472,932	5,282,563
5	Big Creek	Bunch Lake	47 34 59	123 43 45	445,158	5,27?,022
6	Big Quilcene River	Mount Townsend	47 49 37	123 03 25	495,729	5,29?,849
7	Blue Glacier	Mount Olympus	47 50 00	123 42 08	447,432	5,297,831
8	Bob Creek	Bob Creek	47 42 15	123 50 17	437,105	5,283,546
9	Braden Creek	Kalaloch Ridge	47 44 16	124 21 25	398,258	5,287,827
10	Buckinghorse Creek	Chimney Peak	47 42 23	123 28 33	464,289	5,283,565
11	Cabin Creek	Eldon	47 37 19	123 06 54	491,347	5,274,084
12	Cameron Creek	Wellesley Peak	47 51 39	123 19 58	475,101	5,30?,693
13	Canoe Creek	Finley Creek	47 31 39	123 51 05	435,906	5,263,937
14	Cedar Creek	Kalaloch Ridge	47 42 55	124 20 33	399,293	5,285,311
15	Chimacum Creek	Center	47 59 05	122 46 23	516,921	5,314,413
16	Christmas Creek	Christmas Creek	47 43 03	124 13 20	408,326	5,285,428
17	Crazy Creek	Mount Steel	47 37 59	123 15 53	480,109	5,275,336
18	Cream Lake Creek	Mount Queets	47 51 30	123 35 30	455,724	5,300,522
19	Deception Creek	Christmas Creek	47 38 51	124 10 01	412,355	5,277,570
20	Delabarre Creek	Chimney Peak	47 42 21	123 29 41	462,871	5,283,523
21	Dosewallips River	Wellesley Peak	47 48 31	123 18 50	476,496	5,294,882
22	Dosewallips River, West Fork	Mount Steel	47 42 16	123 18 46	476,535	5,283,311
23	Dowans Creek	Anderson Creek	47 51 37	124 19 10	401,292	5,301,410
24	Duckabush River	Mount Steel	47 38 50	123 21 15	473,385	5,276,943
25	Dungeness River	Mount Deception	47 48 21	123 09 51	487,706	5,294,524
26	Elip Creek	Kimta Peak	47 37 54	123 40 48	448,907	5,275,369
27	Elk Creek	Queets	47 33 33	124 17 50	402,401	5,267,911
28	Elk Creek	Winfield Creek	47 47 54	124 10 05	412,520	5,294,351
29	Elk Lick Creek	Mount Steel	47 42 49	123 16 14	479,685	5,284,300
30	Elkhorn River	Mount Queets	47 49 46	123 35 31	455,678	5,297,303
31	Elwha River	Mount Queets	47 46 17	123 34 47	456,552	5,290,854
32	Finley Creek	Finley Creek	47 34 47	123 46 55	441,180	5,269,692
33	Fox Creek	Bunch Lake	47 33 22	123 42 15	447,010	5,267,005
34	Fulton Creek	Brinnon	47 37 46	122 59 12	500,992	5,274,904
35	Geoduck Creek	Mount Christie	47 40 21	123 33 36	457,964	5,279,832
36	Godkin Creek	Chimney Peak	47 41 02	123 27 15	465,897	5,281,056
37	Goodman Creek	Anderson Creek	47 49 56	124 19 48	400,463	5,298,293
38	Graves Creek	Mount Hoquiam	47 32 34	123 30 59	461,121	5,265,396
39	Gray Wolf River	Wellesley Peak	47 51 19	123 16 37	479,267	5,30?,054
40	Hades Creek	Winfield Creek	47 51 47	124 09 22	413,526	5,301,515
41	Harlow Creek	Bob Creek	47 43 50	123 51 03	436,191	5,286,497
42	Hayes River	Chimney Peak	47 43 41	123 22 32	471,832	5,285,937
43	Hee Haw Creek	Kimta Peak	47 42 52	123 39 33	450,557	5,284,572
44	Hee Haw River	Kimta Peak	47 42 15	123 42 56	446,304	5,283,474

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude (Degrees, minutes, and seconds)	Universal Mercator Grid 10 coordinates Easting (meters)	Universal Mercator Grid 10 coordinates Northing (meters)
		Jefferson County--Continued				
45	Hell Roaring Creek, East Fork	Anderson Creek	47 50 02	124 15 55	405,293	5,298,395
46	Hoh River	Mount Olympus	47 48 43	123 38 51	451,527	5,295,397
47	Hoh River, South Fork	Mount Olympus	47 46 55	123 42 55	446,401	5,292,108
48	Hook Branch Creek	Matheny Ridge	47 34 57	123 56 53	428,690	5,270,140
49	Hungry Creek	The Brothers	47 43 37	123 13 06	483,604	5,285,765
50	Hurst Creek	Salmon River West	47 36 04	124 13 51	407,467	5,272,501
51	Ice River	Mount Olympus	47 50 27	123 39 37	450,576	5,298,616
52	Irely Creek	Bunch Lake	47 33 53	123 40 36	449,091	5,267,933
53	Jackson Creek	Owl Mountain	47 48 51	123 53 30	433,231	5,295,812
54	Jeffers Glacier	Mount Olympus	47 46 31	123 39 12	451,050	5,291,334
55	Jemrod Creek	Mount Olympus	47 49 57	123 41 27	448,285	5,297,711
56	Kalaloch Creek	Kalaloch Ridge	47 39 27	124 19 39	400,316	5,278,865
57	Kalaloch Creek, East Fork	Kalaloch Ridge	47 37 50	124 19 57	399,895	5,275,892
58	Kimta Creek	Kimta Peak	47 41 10	123 40 23	449,474	5,281,427
59	Kunamakst Creek	Stequaleho Creek	47 43 42	124 04 40	419,171	5,286,473
60	Lena Creek	The Brothers	47 38 02	123 10 34	486,763	5,275,418
61	Litchy Creek	Mount Hoquiam	47 31 26	123 34 01	457,306	5,263,327
62	Long Creek	Mount Queets	47 51 57	123 33 16	458,511	5,301,323
63	Lost River	Mc Cartney Peak	47 49 09	123 22 53	471,441	5,296,069
64	Manor Creek, South Fork	Stequaleho Creek	47 38 25	124 06 42	416,486	5,276,697
65	Maple Creek	Spruce Mountain	47 45 55	124 04 55	418,924	5,290,568
66	Matheny Creek	Finley Creek	47 33 05	123 51 14	435,735	5,266,596
67	McKinnon Creek	Salmon River West	47 33 52	124 13 25	407,942	5,268,417
68	Miller Creek	Kalaloch Ridge	47 41 32	124 17 04	403,595	5,282,698
69	Miller Creek, East Fork	Christmas Creek	47 40 52	124 14 27	406,846	5,281,404
70	Minter Creek	Hoh Head	47 48 57	124 24 05	395,085	5,296,595
71	Mosquito Creek	Hoh Head	47 47 39	124 24 05	395,043	5,294,173
72	Mosquito Creek, North Fork	Hoh Head	47 47 47	124 23 00	396,392	5,294,402
73	Mud Creek	Salmon River East	47 33 21	124 07 27	415,419	5,267,345
74	Murphy Creek	Quillayute Prairie	47 52 57	124 30 45	386,917	5,304,132
75	Nolan Creek	Christmas Creek	47 44 46	124 14 53	406,422	5,288,634
76	Noname Creek	Chimney Peak	47 37 56	123 27 40	465,349	5,275,318
77	O'Neil Creek	Mount Olson	47 36 42	123 23 37	470,401	5,273,026
78	Owl Creek	Spruce Mountain	47 46 18	124 00 28	424,478	5,291,223
79	Paradise Creek	Bob Creek	47 41 49	123 48 16	439,621	5,282,747
80	Paull Creek	Mount Olympus	47 45 35	123 41 21	448,350	5,289,619
81	Promise Creek	Kimta Peak	47 41 52	123 37 57	452,529	5,282,685
82	Pyrites Creek	Chimney Peak	47 39 17	123 26 42	466,579	5,277,817
83	Queets River	Mount Queets	47 47 17	123 37 21	453,358	5,292,719
84	Quinault River	Mount Steel	47 41 25	123 20 36	474,226	5,281,727
85	Quinault River, North Fork	Mount Christie	47 43 11	123 33 55	457,604	5,285,092
86	Rocky Brook	Brinnon	47 44 19	122 57 52	502,652	5,287,046
87	Royal Creek	Mount Deception	47 51 36	123 12 04	484,944	5,300,549
88	Rustler Creek	Chimney Peak	47 39 54	123 28 55	463,795	5,278,964

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude (Degrees, minutes, and seconds)	Universal Mercator Grid 10 coordinates Easting (meters)	Universal Mercator Grid 10 coordinates Northing (meters)
		Jefferson County--Continued				
89	Saghalie Creek	Mount Christie	47 44 12	123 37 06	453,638	5,287,014
90	Salmon Creek	Uncas	47 58 43	122 54 37	506,680	5,313,724
91	Salmon River, M.F.	Matheny Ridge	47 31 14	123 58 51	426,138	5,263,293
92	Salmon River, N.F.	Matheny Ridge	47 33 00	124 00 00	424,744	5,266,557
93	Sams River	Finley Creek	47 36 07	123 45 30	442,991	5,272,139
94	Seattle Creek	Mount Christie	47 43 27	123 36 04	454,907	5,285,613
95	Shale Creek	Christmas Creek	47 37 35	124 12 06	409,702	5,275,270
96	Silt River	Wellesley Peak	47 45 25	123 21 05	473,646	5,289,140
97	Snahapish River	Winfield Creek	47 45 14	124 07 58	415,090	5,289,347
98	Snow Creek	Uncas	47 56 40	122 53 07	508,560	5,309,939
99	Solleks River	Kloochman Rock	47 41 40	123 56 45	429,022	5,282,557
100	Stalding Creek	Kimta Peak	47 39 30	123 40 02	449,887	5,278,351
101	Stequaleho Creek	Stequaleho Creek	47 39 33	124 01 39	422,829	5,278,713
102	Tacoma Creek	Salmon River West	47 35 39	124 09 00	413,530	5,271,632
103	Three Prune Creek	Kimta Peak	47 38 35	123 41 49	447,647	5,276,671
104	Townsend Creek	Mount Walker	47 49 06	122 58 29	501,881	5,295,925
105	Tsheltshy Creek	Bunch Lake	47 36 56	123 43 38	445,337	5,273,615
106	Tumwater Creek	Spruce Mountain	47 51 11	124 04 10	419,988	5,300,317
107	Tunnel Creek	Mount Townsend	47 47 52	123 04 55	493,860	5,293,615
108	Twin Creek	Spruce Mountain	47 50 02	124 00 00	425,149	5,298,117
109	Unnamed tributary to Alta Creek	Bob Creek	47 41 10	123 45 05	443,610	5,281,485
110	Unnamed tributary to Alta Creek	Kimta Peak	47 40 42	123 44 26	444,398	5,280,615
111	Unnamed tributary to Big Creek	Bunch Lake	47 36 25	123 42 05	447,275	5,272,636
112	Unnamed tributary to Clearwater River	Kloochman Rock	47 44 37	123 58 09	427,328	5,288,054
113	Unnamed tributary to Clearwater River	Kloochman Rock	47 43 18	123 55 28	430,649	5,285,583
114	Unnamed tributary to Delabarre Creek	Mount Christie	47 43 21	123 32 35	459,260	5,285,398
115	Unnamed tributary to Duckabush River	The Brothers	47 40 49	123 09 17	488,379	5,280,588
116	Unnamed tributary to Elwha River	Mount Queets	47 45 16	123 34 15	457,205	5,288,971
117	Unnamed tributary to Finley Creek	Finley Creek	47 33 51	123 48 51	438,754	5,267,992
118	Unnamed tributary to Geoduck Creek	Mount Christie	47 40 45	123 33 12	458,451	5,280,574
119	Unnamed tributary to Godkin Creek	Chimney Peak	47 42 15	123 24 45	469,036	5,283,302
120	Unnamed tributary to Godkin Creek	Chimney Peak	47 41 00	123 25 36	467,965	5,280,999
121	Unnamed tributary to Goldie River	Mount Queets	47 51 17	123 30 37	461,815	5,300,068
122	Unnamed tributary to Goldie River	Mount Queets	47 49 48	123 32 51	459,018	5,297,347
123	Unnamed tributary to Goldie River	Mount Queets	47 47 47	123 33 47	457,814	5,293,622
124	Unnamed tributary to Goldie River	Mount Queets	47 46 57	123 30 55	461,402	5,292,033
125	Unnamed tributary to Goldie River	Mount Queets	47 46 31	123 32 35	459,314	5,291,265
126	Unnamed tributary to Hoh River	Mount Tom	47 50 33	123 45 28	443,291	5,298,849
127	Unnamed tributary to Hoh River	Owl Mountain	47 50 45	123 56 26	429,625	5,299,383
128	Unnamed tributary to Hoh River	Owl Mountain	47 50 11	123 57 06	428,781	5,298,356
129	Unnamed tributary to Hoh River	Mount Queets	47 48 37	123 36 36	454,320	5,295,184
130	Unnamed tributary to Hoh River, S.F.	Bob Creek	47 44 31	123 48 11	439,785	5,287,741
131	Unnamed tributary to Hoh River, S.F.	Kloochman Rock	47 44 55	123 53 06	433,664	5,288,545
132	Unnamed tributary to Hoh River, S.F.	Mount Tom	47 45 48	123 49 28	438,214	5,290,126

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Jefferson County--Continued				
133	Unnamed tributary to Hoh River, S.F.	Mount Tom	47 45 30	123 46 44	441,625	5,289,525
134	Unnamed tributary to Hoh River, S.F.	Mount Olympus	47 46 29	123 44 43	444,153	5,291,323
135	Unnamed tributary to Litchy Creek	Mount Hoquiam	47 32 13	123 34 51	456,269	5,264,787
136	Unnamed tributary to Matheny Creek	Finley Creek	47 34 21	123 52 14	434,507	5,268,937
137	Unnamed tributary to Matheny Creek	Matheny Ridge	47 32 11	123 54 04	432,175	5,264,949
138	Unnamed tributary to Matheny Creek	Matheny Ridge	47 32 19	123 55 50	429,959	5,265,231
139	Unnamed trib. to Mount Tom Creek	Mount Tom	47 48 24	123 49 27	438,288	5,294,941
140	Unnamed trib. to Mount Tom Creek	Mount Tom	47 48 06	123 46 56	441,413	5,294,336
141	Unnamed tributary to Queets River	Salmon River East	47 35 28	124 06 38	416,483	5,271,261
142	Unnamed tributary to Queets River	Bob Creek	47 41 38	123 47 26	440,673	5,282,364
143	Unnamed tributary to Queets River	Kimta Peak	47 43 28	123 44 04	444,902	5,285,738
144	Unnamed tributary to Queets River	Kimta Peak	47 43 23	123 41 43	447,857	5,285,536
145	Unnamed tributary to Queets River	Mount Queets	47 47 11	123 36 51	453,980	5,292,547
146	Unnamed tributary to Queets River	Mount Queets	47 46 46	123 36 58	453,835	5,291,765
147	Unnamed tributary to Queets River	Mount Queets	47 45 44	123 37 09	453,594	5,289,859
148	Unnamed tributary to Quinault River	Mount Hoquiam	47 36 15	123 32 49	458,877	5,272,237
149	Unnamed trib., Quinault River , N.F.	Mount Christie	47 39 26	123 36 21	454,492	5,278,169
150	Unnamed trib., Quinault River, N.F.	Mount Christie	47 42 31	123 34 22	457,031	5,283,877
151	Unnamed tributary to Rustler Creek	Mount Christie	47 40 57	123 30 53	461,360	5,280,920
152	Unnamed tributary to Rustler Creek	Mount Christie	47 38 55	123 30 05	462,326	5,277,169
153	Unnamed tributary to Rustler Creek	Mount Christie	47 38 13	123 32 08	459,754	5,275,876
154	Unnamed tributary to Sams River	Matheny Ridge	47 35 16	123 54 06	432,203	5,270,682
155	Unnamed tributary to Silt River	Wellesley Peak	47 45 31	123 20 10	474,802	5,289,331
156	Unnamed tributary to Snahapish River	Christmas Creek	47 41 58	124 10 20	412,034	5,283,351
157	Unnamed tributary to Sollecks River	Stequaleho Creek	47 40 58	124 00 33	424,250	5,281,326
158	Unnamed tributary to Tshletshy Creek	Bob Creek	47 38 27	123 50 06	437,273	5,276,516
159	Unnamed tributary to Tshletshy Creek	Bob Creek	47 38 25	123 51 32	435,487	5,276,472
160	Unnamed tributary to Tshletshy Creek	Bob Creek	47 38 08	123 45 05	443,547	5,275,863
161	Unnamed tributary to Tshletshy Creek	Bob Creek	47 38 07	123 46 39	441,594	5,275,843
162	Unnamed tributary to Tshletshy Creek	Bob Creek	47 37 39	123 48 36	439,124	5,274,996
163	Unnamed tributary to Tshletshy Creek	Kloochman Rock	47 38 54	123 53 42	432,785	5,277,386
164	Unnamed tributary to Tunnel Creek	Mount Townsend	47 46 59	123 02 25	496,974	5,291,984
165	Unnamed tributary to Winfield Creek	Winfield Creek	47 46 03	124 11 45	410,389	5,290,931
166	Unnamed tributary to Hoh River	Mount Tom	47 50 36	123 46 18	442,249	5,298,981
167	Unnamed trib. to Mount Tom Creek	Mount Tom	47 48 51	123 46 01	442,567	5,295,723
168	Upper O'Neil Creek	Chimney Peak	47 38 27	123 24 16	469,601	5,276,260
169	White Glacier	Mount Olympus	47 49 06	123 43 39	445,534	5,296,162
170	Wild Rose Creek	Bunch Lake	47 37 06	123 38 54	451,277	5,273,888
171	Willoughby Creek	Winfield Creek	47 49 34	124 11 51	410,369	5,297,468
172	Winfield Creek	Winfield Creek	47 46 55	124 10 57	411,419	5,292,534
173	Wynoochee River	Mount Hoquiam	47 31 31	123 32 07	459,702	5,263,460

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		King County				
1	Alice Creek	Bandera	47 25 08	121 35 25	606,325	5,252,456
2	Alpine Creek	Skykomish	47 41 45	121 15 01	631,275	5,273,774
3	Barclay Creek	Baring	47 46 32	121 24 19	619,466	5,282,379
4	Bear Creek	Eagle Gorge	47 16 44	121 47 58	590,792	5,236,652
5	Bear Creek	Findley Lake	47 20 26	121 32 12	610,545	5,243,837
6	Bear Creek	Redmond	47 44 00	122 04 04	569,889	5,276,892
7	Big Creek	Snoqualmie Lake	47 35 34	121 26 50	616,736	5,272,005
8	Big Soos Creek	Auburn	47 21 28	122 07 42	565,824	5,245,104
9	Boise Creek	Enumclaw	47 12 12	121 52 53	584,712	5,228,180
10	Boulder Creek	Cougar Mountain	47 21 00	121 42 23	597,701	5,244,678
11	Boxley Creek	Chester Morse Lake	47 27 06	121 43 15	596,419	5,255,949
12	Burn Creek	Scenic	47 39 46	121 14 26	632,089	5,270,099
13	Burnboot Creek	Chikamin Peak	47 29 37	121 19 10	626,571	5,251,191
14	Calligan Creek	Mount Si	47 35 33	121 38 31	602,084	5,271,699
15	Camp Robber Creek	Big Snow Mountain.	47 33 52	121 20 16	625,028	5,259,021
16	Carroll Creek	Scenic	47 41 26	121 13 54	632,691	5,273,221
17	Cedar River, N.F.	Lost Lake	47 19 31	121 27 36	616,358	5,242,268
18	Cedar River, S.F.	Lost Lake	47 17 10	121 29 02	614,631	5,237,876
19	Champion Creek	Nagrom	47 11 21	121 32 58	609,885	5,227,016
20	Charley Creek	Cyclone Creek	47 14 04	121 48 54	589,685	5,231,684
21	Cherry Creek	Sultan	47 46 39	121 51 42	585,262	5,291,998
22	Cherry Creek, North Fork	Carnation	47 44 51	121 55 48	580,207	5,278,595
23	Coal Creek	Cumberland	47 16 23	121 52 41	584,842	5,235,919
24	Commonwealth Creek	Snoqualmie Pass	47 26 04	121 24 33	619,950	5,254,475
25	Coney Creek	Grotto	47 39 07	121 27 12	616,146	5,278,561
26	Cottage Lake Creek	Redmond	47 43 28	122 04 44	569,065	5,275,885
27	Cougar Creek	Lake Phillippa	47 36 48	121 31 18	611,094	5,274,191
28	Covington Creek	Black Diamond	47 20 03	122 02 24	572,523	5,242,540
29	Cripple Creek	Snoqualmie Lake	47 30 38	121 29 24	613,704	5,262,815
30	Deception Creek	Mount Daniel	47 36 32	121 08 31	639,635	5,274,284
31	Deep Creek	Hobart	47 28 32	121 53 25	583,617	5,258,422
32	Deep Creek	Devils Slide	47 38 44	121 42 21	597,178	5,277,510
33	Denny Creek	Snoqualmie Pass	47 25 22	121 26 57	616,958	5,253,112
34	Dingford Creek	Snoqualmie Lake	47 32 34	121 23 15	621,343	5,266,539
35	Dry Creek	Gold Bar	47 46 08	121 40 02	599,860	5,291,251
36	Evans Creek	Redmond	47 39 26	122 03 42	570,455	5,278,423
37	Fisher Creek	Scenic	47 38 04	121 12 32	634,554	5,277,041
38	Foss River, East Fork	Mount Daniel	47 34 51	121 11 30	635,972	5,271,094
39	Friday Creek	Lester	47 14 10	121 28 09	615,850	5,232,335
40	Gale Creek	Cougar Mountain	47 15 51	121 42 31	597,691	5,235,128
41	Goat Creek	Grotto	47 41 12	121 28 23	614,575	5,272,396
42	Granite Creek	Bandera	47 28 15	121 37 15	603,916	5,258,221
43	Great Falls Creek	Grotto	47 37 57	121 23 00	621,438	5,276,498
44	Green River	Blowout Mountain	47 09 41	121 21 20	624,628	5,224,201

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		King County--Continued				
45	Green River, North Fork	Cougar Mountain	47 17 03	121 39 54	600,949	5,237,408
46	Griffin Creek	Lake Joy	47 38 03	121 49 51	587,823	5,276,103
47	Hancock Creek	Mount Si	47 33 52	121 38 11	602,567	5,268,591
48	Hansen Creek	Findley Lake	47 22 25	121 30 57	612,045	5,247,546
49	Hardscrabble Creek	Big Snow Mountain	47 31 09	121 20 56	624,295	5,263,974
50	Harlan Creek	Evergreen Mountain	47 45 00	121 16 14	629,617	5,289,747
51	Harris Creek	Carnation	47 42 20	121 53 51	582,710	5,283,974
52	Holder Creek	Hobart	47 26 52	121 57 25	578,617	5,255,251
53	Humpback Creek	Snoqualmie Pass	47 22 39	121 28 26	615,202	5,248,050
54	Illinois Creek	Mount Phelps	47 40 11	121 33 02	608,800	5,280,411
55	Index Creek, East Fork	Mount Phelps	47 44 14	121 30 28	611,880	5,287,968
56	Issaquah Creek, East Fork	Fall City	47 31 58	121 58 31	577,117	5,264,668
57	Jenkins Creek	Black Diamond	47 21 19	122 06 20	567,534	5,244,815
58	Kaleetan Creek	Bandera	47 27 53	121 30 35	612,308	5,257,682
59	Kelley Creek	Captain Point	47 45 05	121 12 12	634,650	5,290,041
60	Kimball Creek	Snoqualmie	47 31 33	121 49 59	587,846	5,264,054
61	Kimball Creek	Grotto	47 40 52	121 26 14	617,291	5,281,848
62	Kulla Kulla Creek	Bandera	47 26 52	121 31 36	611,057	5,255,783
63	Lennox Creek	Snoqualmie Lake	47 36 56	121 29 00	613,972	5,274,483
64	Lindsay Creek	Cougar Mountain	47 20 07	121 39 52	600,886	5,243,082
65	Lowe Creek	Grotto	47 43 48	121 27 31	615,565	5,287,221
66	Maloney Creek	Skykomish	47 41 21	121 20 35	624,341	5,282,893
67	Martin Creek	Captain Point	47 46 21	121 09 19	638,204	5,292,446
68	May Creek	Mercer Island	47 31 11	122 09 49	562,956	5,263,045
69	Mercer Slough	Mercer Island	47 36 08	122 10 15	562,324	5,272,225
70	Miller River, West Fork	Snoqualmie Lake	47 37 01	121 27 20	616,053	5,274,684
71	Money Creek	Grotto	47 42 02	121 29 53	612,680	5,283,894
72	Newaukum Creek	Enumclaw	47 13 56	121 57 52	578,382	5,231,288
73	North Fork Creek	Lake Joy	47 44 19	121 49 16	588,380	5,287,721
74	Patterson Creek	Fall City	47 35 29	121 57 25	578,406	5,271,190
75	Phelps Creek	Mount Phelps	47 42 00	121 35 11	606,049	5,283,721
76	Philippa Creek	Mount Si	47 37 29	121 37 37	603,148	5,275,290
77	Pioneer Creek	Blowout Mountain	47 10 34	121 21 09	624,842	5,225,840
78	Pratt River	Snoqualmie Pass	47 26 41	121 29 33	613,640	5,255,494
79	Pyramid Creek	Noble Knob	47 06 47	121 26 27	618,277	5,218,708
80	Quartz Creek	Lake Phillippa	47 34 28	121 34 40	606,954	5,269,797
81	Raging River	North Bend	47 26 24	121 51 10	586,483	5,254,505
82	Rainy Creek	Lake Phillippa	47 31 57	121 31 35	610,914	5,265,170
83	Rex River	Cougar Mountain	47 18 30	121 37 57	603,371	5,240,153
84	Rock Creek	Nagrom	47 09 45	121 30 34	612,958	5,224,075
85	Rock Creek	Maple Valley	47 22 47	122 00 57	574,281	5,247,620
86	Rock Creek	Hobart	47 23 55	121 55 13	581,464	5,249,815
87	Rock Creek	Snoqualmie Pass	47 28 29	121 26 36	617,283	5,258,888
88	Salmon Creek	Mount Phelps	47 43 58	121 31 59	609,973	5,287,420

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		King County--Continued				
89	Sawmill Creek	Lester	47 10 24	121 26 49	617,680	5,225,408
90	Sawyer Creek	Scenic	47 40 54	121 12 01	635,066	5,282,275
91	Scatter Creek	Cyclone Creek	47 11 07	121 52 01	585,844	5,226,163
92	Seattle Creek	Findley Lake	47 19 06	121 33 32	608,904	5,241,358
93	Slippery Creek	Greenwater	47 10 09	121 39 42	601,411	5,224,611
94	Smay Crek	Findley Lake	47 16 07	121 30 51	612,386	5,235,872
95	Smay Creek, West Fork	Findley Lake	47 16 18	121 36 16	605,548	5,236,086
96	Smith Creek	Snoqualmie Lake	47 36 05	121 24 57	619,067	5,273,020
97	Snoqualmie River, Middle Fork	Big Snow Mountain.	47 32 52	121 15 09	631,485	5,267,329
98	Snoqualmie River, North Fork	Grotto	47 40 03	121 29 59	612,619	5,280,220
99	Snoqualmie River, South Fork	Snoqualmie Pass	47 26 50	121 25 39	618,554	5,255,857
100	Snow Creek	Lost Lake	47 16 08	121 24 59	619,781	5,236,053
101	Spider Creek	Bandera	47 27 35	121 33 33	608,585	5,257,061
102	Springbrook Creek	Renton	47 26 25	122 14 17	557,447	5,254,164
103	Stossel Creek	Lake Joy	47 42 50	121 50 36	586,737	5,284,942
104	Sunday Creek	Stampede Pass	47 15 21	121 22 27	623,004	5,234,668
105	Sunday Creek	Lake Phillippa	47 36 14	121 34 17	607,374	5,273,044
106	Surprise Creek	Scenic	47 40 17	121 08 12	639,864	5,281,251
107	Tacoma Creek	Blowout Mountain	47 12 07	121 20 14	625,933	5,228,759
108	Talapus Creek	Bandera	47 24 16	121 30 40	612,328	5,250,988
109	Taylor Creek, Middle Fork	Eagle Gorge	47 21 24	121 45 43	593,490	5,245,354
110	Taylor Creek, North Fork	Eagle Gorge	47 22 24	121 47 59	590,602	5,247,135
111	Ten Creek	Snoqualmie	47 34 32	121 45 06	593,866	5,269,669
112	Tinkham Creek	Lost Lake	47 19 52	121 28 06	615,719	5,242,885
113	Tokul Creek	Lake Joy	47 38 26	121 46 07	592,483	5,276,889
114	Tolt River, North Fork	Mount Phelps	47 43 45	121 34 09	607,272	5,286,999
115	Tolt River, South Fork	Mount Phelps	47 41 57	121 32 24	609,525	5,283,702
116	Tunnel Creek	Stevens Pass	47 43 17	121 06 36	641,745	5,286,845
117	Twin Camp Creek	Lester	47 08 49	121 24 46	620,335	5,222,523
118	Tye River	Stevens Pass	47 44 54	121 07 17	640,800	5,289,828
119	Unnamed outflow from Gold Lake	Big Snow Mountain	47 33 07	121 21 14	623,843	5,267,608
120	Unnamed trib., Miller River, E.F.	Skykomish	47 37 47	121 22 07	622,550	5,276,227
121	Unnamed trib., Snoqualmie River, M.F.	Lake Phillippa	47 31 04	121 36 42	604,517	5,263,418
122	Unnamed trib., Snoqualmie River, N.F.	Mount Si	47 32 04	121 42 05	597,734	5,265,163
123	Unnamed trib. to Coal Creek	Cumberland	47 16 19	121 53 54	583,329	5,235,763
124	Unnamed trib. to Copper Lake	Big Snow Mountain	47 35 56	121 19 50	625,489	5,272,859
125	Unnamed tributary to Deception Creek	Mount Daniel	47 36 38	121 08 22	639,812	5,274,505
126	Unnamed tributary to Deception Creek	Mount Daniel	47 37 05	121 10 18	637,391	5,275,257
127	Unnamed tributary to Deception Creek	Mount Daniel	47 36 37	121 09 47	638,052	5,274,399
128	Unnamed trib. to Foss River, East Fork	Mount Daniel	47 36 01	121 11 39	635,733	5,273,253
129	Unnamed trib. to Foss River, East Fork	Mount Daniel	47 35 10	121 14 10	632,626	5,271,605
130	Unnamed trib.,Foss River, East Fork	Big Snow Mountain.	47 35 48	121 15 52	630,463	5,272,713
131	Unnamed trib., Foss River, West Fork	Big Snow Mountain.	47 37 20	121 16 58	629,023	5,275,535
132	Unnamed trib., Foss River, West Fork	Big Snow Mountain.	47 35 03	121 19 03	626,498	5,271,246

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		King County--Continued				
133	Unnamed trib., Foss River, West Fork	Big Snow Mountain.	47 33 48	121 18 24	627,359	5,268,954
134	Unnamed tributary to Index Creek	Index	47 45 55	121 32 26	609,356	5,291,034
135	Unnamed tributary to Johnson Creek	Captain Point	47 46 42	121 14 21	631,908	5,292,949
136	Unnamed tributary to Johnson Creek	Evergreen Mountain	47 46 03	121 15 03	631,046	5,291,717
137	Unnamed trib. to Miller River, W.F.	Grotto	47 37 31	121 26 00	617,702	5,275,643
138	Unnamed tributary to Opal Lake	Mount Daniel	47 34 27	121 14 56	631,692	5,270,242
139	Unnamed tributary to Otter Lake	Big Snow Mountain	47 34 00	121 16 45	629,434	5,269,366
140	Unnamed trib. to Skykomish R., S.F.	Grotto	47 43 51	121 23 30	620,600	5,287,449
141	Unnamed trib. to Snoqualmie R., M.F.	Big Snow Mountain	47 32 37	121 15 35	630,949	5,266,831
142	Unnamed trib. to Tolt Reservoir	Mount Phelps	47 41 52	121 37 10	603,566	5,283,437
143	Unnamed trib. to Tunnel Creek	Stevens Pass	47 42 50	121 06 34	641,787	5,286,012
144	Unnamed tributary to Dingford Creek	Snoqualmie Lake	47 31 18	121 23 15	621,382	5,264,192
145	Unnamed tributary to Lake Dorothy	Snoqualmie Lake	47 35 05	121 23 23	621,080	5,271,199
146	Unnamed tributary to Snoqualie Lake	Snoqualmie Lake	47 33 29	121 24 43	619,457	5,268,184
147	Unnamed tributary to Taylor River	Snoqualmie Lake	47 33 54	121 29 15	613,760	5,268,838
148	Unnamed tributary to Taylor River	Snoqualmie Lake	47 33 36	121 26 57	616,667	5,268,357
149	Unnamed tributary to Tolt River, S.F.	Devils Slide	47 41 49	121 43 39	595,465	5,283,198
150	West Creek	Lost Lake	47 15 51	121 25 09	619,579	5,235,537
151	Wildcat Creek	Snoqualmie Pass	47 29 27	121 28 14	615,209	5,260,647
		Kitsap County				
1	Big Beef Creek	Wildcat Lake	47 35 42	122 50 02	512,481	5,271,101
2	Blackjack Creek	Burley	47 29 38	122 38 42	526,727	5,259,895
3	Burley Creek	Burley	47 25 02	122 37 43	528,003	5,251,381
4	Chico Creek	Bremerton West	47 35 16	122 43 58	520,087	5,270,298
5	Coulter Creek	Belfair	47 26 18	122 46 56	516,407	5,253,699
6	Curley Creek	Olalla	47 29 56	122 34 55	531,474	5,260,480
7	Gorst Creek	Bremerton West	47 31 50	122 42 42	521,683	5,263,972
8	Tahuya River	Wildcat Lake	47 33 31	122 50 03	512,458	5,267,051
		Lewis County				
1	Berry Creek	Wahpenayo Peak	46 40 11	121 51 48	586,943	5,168,884
2	Big Creek	Sawtooth Ridge	46 43 05	121 53 14	585,035	5,174,216
3	Big Creek	Pe Ell	46 30 44	123 15 55	479,642	5,150,801
4	Brim Creek	Wildwood	46 25 37	123 00 31	499,322	5,141,282
5	Bunker Creek	Rainbow Falls	46 41 49	123 12 20	484,265	5,171,292
6	Butter Creek	Tatoosh Lake	46 44 00	121 43 32	597,357	5,176,103
7	Carlton Creek	White Pass	46 44 43	121 28 50	616,061	5,177,773
8	Cascade Creek	Winters Mountain	46 23 45	122 20 54	550,084	5,138,030
9	Catt Creek	Sawtooth Ridge	46 40 30	121 55 14	582,552	5,169,395
10	Cedar Creek	Eden Valley	46 27 07	122 38 25	527,610	5,144,117
11	Chambers Creek	Hamilton Buttes	46 25 29	121 32 40	611,823	5,142,071
12	Chehalis River, East Fork	Elochoman Pass	46 24 31	123 16 52	478,379	5,139,280
13	Chehalis River, West Fork	Elochoman Pass	46 25 01	123 18 53	475,803	5,140,228
14	Cinebar Creek	Mossyrock	46 37 28	122 29 20	539,132	5,163,356

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Lewis County--Continued				
15	Cinnabar Creek	Elochoman Pass	46 26 57	123 15 41	479,922	5,143,790
16	Cispus River	Walupt Lake	46 28 24	121 28 34	616,985	5,147,556
17	Cispus River, North Fork	Hamilton Buttes	46 27 14	121 35 40	607,926	5,145,231
18	Coal Creek	Ohanapecosh Hot Springs	46 37 44	121 33 25	610,454	5,164,713
19	Connelly Creek	Morton	46 35 34	122 17 13	554,615	5,159,970
20	Coon Creek	Morton	46 37 09	122 15 56	556,232	5,162,903
21	Cortright Creek	White Pass	46 40 30	121 26 54	618,662	5,169,994
22	Davis Creek	Purcell Mountain	46 34 00	121 49 29	590,059	5,157,472
23	Deception Creek	Blue Lake	46 29 30	121 38 35	604,134	5,149,359
24	Deep Creek	Adna	46 40 55	123 07 13	490,783	5,169,628
25	Deschutes River	Newaukum Lake	46 42 20	122 23 37	546,338	5,172,418
26	Devils Creek	Coyote Mountain	46 24 25	122 27 37	541,475	5,139,197
27	Dillenbaugh Creek	Centralia	46 37 40	122 56 18	504,713	5,163,605
28	Eagle Creek	The Rockies	46 39 11	122 15 27	556,799	5,166,682
29	East Creek	Mineral	46 42 23	122 14 35	557,844	5,172,607
30	Eleven Creek	Bernier Creek	46 44 35	122 34 37	532,298	5,176,489
31	Elk Creek	Winters Mountain	46 24 30	122 16 34	555,633	5,139,462
32	Frost Creek	Glenoma	46 30 23	122 10 24	563,424	5,150,437
33	Gallup Creek	Mineral	46 38 43	122 07 31	566,921	5,165,921
34	Garrard Creek, South Fork	Cedarville	46 45 32	123 18 08	476,905	5,178,216
35	George Creek	Boistfort Peak	46 25 08	123 14 28	481,456	5,140,429
36	Glacier Creek	Packwood Lake	46 32 39	121 33 20	610,735	5,155,326
37	Goat Creek	Cowlitz Falls	46 24 55	122 07 26	567,318	5,140,372
38	Goat Creek	Walupt Lake	46 29 21	121 29 33	615,683	5,149,315
39	Greenhorn Creek	Greenhorn Buttes	46 23 21	121 55 17	582,920	5,137,665
40	Hager Creek	Packwood	46 35 27	121 39 28	602,808	5,160,355
41	Hanaford Creek	Onalaska NW	46 44 00	122 42 15	522,601	5,175,372
42	Hanlan Creek	Boistfort Peak	46 23 46	123 10 30	486,549	5,137,865
43	Hiawatha Creek	The Rockies	46 41 43	122 17 35	554,035	5,171,350
44	Highland Creek	Morton	46 33 30	122 18 12	553,398	5,156,138
45	Independence Creek	Oakville	46 45 38	123 14 03	482,112	5,178,373
46	Johnson Creek	Hamilton Buttes	46 29 26	121 34 07	609,847	5,149,363
47	Johnson Creek	Tatoosh Lake	46 42 39	121 44 42	595,915	5,173,607
48	Johnson Creek	Glenoma	46 32 21	122 14 39	557,946	5,154,040
49	Johnson Creek, Middle Fork	Packwood Lake	46 30 59	121 32 25	611,962	5,152,258
50	Jones Creek	Pe Ell	46 35 22	123 16 36	478,789	5,159,367
51	Jordan Creek	Hamilton Buttes	46 29 58	121 32 31	611,879	5,150,371
52	Kearney Creek	Mayfield Lake	46 36 30	122 36 12	530,359	5,161,532
53	Keller Creek	Boistfort	46 32 09	123 11 19	485,521	5,153,411
54	Kilborn Creek	Purcell Mountain	46 30 33	121 48 04	591,974	5,151,110
55	King Creek	Napavine	46 30 06	122 57 08	503,653	5,149,574
56	Kiona Creek	Kiona Peak	46 33 50	122 03 01	572,788	5,156,924
57	Klickitat Creek	Mayfield Lake	46 31 28	122 30 24	537,817	5,152,246
58	Lacamas Creek	Jackson Prairie	46 31 27	122 47 32	515,920	5,152,093

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Lewis County--Continued				
59	Lake Creek	Randle	46 35 20	121 57 19	580,037	5,159,799
60	Lake Creek	Curtis	46 30 06	123 03 23	495,660	5,149,573
61	Landers Creek	Vanson Peak	46 26 45	122 12 09	561,257	5,143,708
62	Laughingwater Creek	Ohanapecosh Hot Springs	46 44 53	121 32 47	611,012	5,178,003
63	Lava Creek	Ohanapecosh Hot Springs	46 39 53	121 30 26	614,188	5,168,778
64	Lester Creek	Pe Ell	46 32 00	123 19 05	475,605	5,153,146
65	Lincoln Creek, North Fork	Rainbow Falls	46 44 13	123 14 59	480,917	5,175,777
66	Lincoln Creek, South Fork	Rainbow Falls	46 42 55	123 14 51	481,083	5,173,350
67	Little Creek	Newaukum Lake	46 39 59	122 24 11	545,666	5,168,047
68	Little Nisqually River, West Fork	The Rockies	46 41 05	122 19 52	551,139	5,170,151
69	Lost Creek	Boistfort	46 32 51	123 09 54	487,346	5,154,685
70	Lucas Creek	Onalaska NW	46 38 52	122 42 53	521,825	5,165,863
71	Lynx Creek	Sawtooth Ridge	46 38 57	121 56 36	580,839	5,166,527
72	Martin Creek	Sawtooth Ridge	46 37 31	121 57 22	579,902	5,163,847
73	Mill Creek	Mayfield Lake	46 35 12	122 33 05	534,356	5,159,131
74	Millridge Creek	White Pass	46 37 44	121 24 53	621,345	5,164,936
75	Mineral Creek	Kiona Peak	46 37 18	122 03 44	571,789	5,163,342
76	Mineral Creek, North Fork	Anderson Lake	46 38 16	122 00 41	575,669	5,165,188
77	Mission Creek	Packwood Lake	46 30 08	121 35 12	608,439	5,150,607
78	Nannie Creek	Walupt Lake	46 26 29	121 28 32	617,092	5,143,997
79	Newaukum River	Onalaska NW	46 41 52	122 37 50	528,232	5,171,435
80	Newaukum River, Middle Fork	Jackson Prairie	46 36 12	122 47 24	516,068	5,160,903
81	Newaukum River, South Fork	Bernier Creek	46 39 50	122 31 32	536,274	5,167,707
82	Nickel Creek	Chinook Pass	46 46 39	121 37 27	605,028	5,181,146
83	Nine Creek	Pe Ell	46 37 09	123 19 48	474,721	5,162,705
84	Olequa Creek	Napavine	46 30 19	122 55 48	505,363	5,149,974
85	Packwood Creek	Bucoda	46 45 06	122 49 41	513,130	5,177,384
86	Paradise River	Mount Rainier West	46 45 58	121 45 46	594,456	5,179,723
87	Rainey Creek	Kiona Peak	46 32 22	122 05 33	569,584	5,154,194
88	Reese Creek	Anderson Lake	46 44 27	122 03 47	571,557	5,176,596
89	Roger Creek	Elochoman Pass	46 29 25	123 16 37	478,725	5,148,340
90	Roundtop Creek	Mineral	46 40 24	122 11 34	561,735	5,168,979
91	Salmon Creek	Hatchet Mountain	46 27 03	122 33 56	533,358	5,144,034
92	Salzer Creek	Centralia	46 41 27	122 54 19	507,241	5,170,605
93	Sand Creek	Pe Ell	46 33 47	123 16 54	478,410	5,156,433
94	Shelton Creek	Morton	46 30 02	122 17 10	554,765	5,149,694
95	Siler Creek	Greenhorn Buttes	46 29 39	121 55 01	583,114	5,149,313
96	Silver Creek	Wahpenayo Peak	46 37 53	121 49 54	589,427	5,164,644
97	Skate Creek	Wahpenayo Peak	46 40 21	121 48 43	590,862	5,169,254
98	Skookumchuk River	Newaukum Lake	46 41 50	122 28 22	540,295	5,171,442
99	Slide Creek	Boistfort	46 31 53	123 10 08	487,034	5,152,910
100	Smith Creek	Blue Lake	46 29 44	121 41 15	600,721	5,149,752
101	South Hanaford Creek	Logan Hill	46 42 18	122 51 03	511,396	5,172,174
102	Stearns Creek	Napavine	46 34 17	122 58 07	502,398	5,157,321

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Lewis County--Continued				
103	Stevens Creek	Mount Rainier East	46 46 18	121 41 56	599,339	5,180,425
104	Stillman Creek	Boistfort Peak	46 25 42	123 09 42	487,561	5,141,453
105	Stillman Creek, West Fork	Boistfort Peak	46 27 27	123 11 48	484,881	5,144,684
106	Summit Creek	White Pass	46 42 38	121 26 42	618,843	5,173,985
107	Taos Creek	Tatoosh Lake	46 44 10	121 38 39	603,574	5,176,519
108	Teely Creek	Sawtooth Ridge	46 43 29	121 55 17	582,411	5,174,940
109	Thrash Creek	Elochoman Pass	46 28 44	123 21 00	473,119	5,147,108
110	Tilton River	Mineral	46 38 43	122 12 09	561,020	5,165,865
111	Tilton River, East Fork	Kiona Peak	46 36 09	122 06 20	568,489	5,161,168
112	Tilton River, South Fork	Glenoma	46 34 06	122 10 12	563,611	5,157,331
113	Tilton River, W..F.	The Rockies	46 38 39	122 16 37	555,317	5,165,685
114	Timonium Creek	Blue Lake	46 25 26	121 39 01	603,699	5,141,838
115	Tumble Creek	The Rockies	46 37 36	122 20 55	549,853	5,163,692
116	Unnamed trib.,Clear Fork Cowlitz River	Old Snowy Mountain	46 34 26	121 26 52	618,936	5,158,768
117	Unnamed trib., Newaukum River, S.F.	Bernier Creek	46 40 22	122 32 26	535,127	5,168,712
118	Unnamed trib., Chehalis River, W.F.	Elochoman Pass	46 25 21	123 19 38	474,842	5,140,849
119	Unnamed trib., Mineral Creek	Kiona Peak	46 37 09	122 02 39	573,170	5,163,099
120	Unnamed trib., Newaukum River, N.F.	Onalaska NW	46 40 35	122 39 55	525,601	5,169,046
121	Unnamed trib., Olequa Creek	Napavine	46 30 48	122 56 13	504,819	5,150,891
122	Unnamed tributary to Catt Creek	Sawtooth Ridge	46 40 48	121 57 30	579,662	5,169,925
123	Unnamed tributary to Skate Creek	Wahpenayo Peak	46 41 23	121 47 53	591,887	5,171,180
124	Unnamed tributary to Summit Creek	White Pass	46 42 36	121 25 00	621,016	5,173,962
125	Upper Lake Creek	Old Snowy Mountain	46 32 34	121 28 54	616,399	5,155,274
126	Walupt Creek	Walupt Lake	46 25 12	121 25 44	620,716	5,141,692
127	Willame Creek, North Fork	Wahpenayo Peak	46 38 18	121 46 32	593,708	5,165,502
128	Williame Creek, South Fork	Packwood	46 35 19	121 44 31	596,363	5,160,005
129	Winnie Creek	Newaukum Lake	46 39 27	122 25 29	544,006	5,167,070
130	Winston Creek	Coyote Mountain	46 27 23	122 23 20	546,926	5,144,746
131	Winston Creek, South Fork	Coyote Mountain	46 26 22	122 25 23	544,300	5,142,834
132	Woods Creek	Greenhorn Buttes	46 27 20	121 57 23	580,134	5,145,008
		Mason County				
1	Aristine Creek	Mason	47 20 00	123 20 50	473,757	5,242,065
2	Baker Creek	Dry Bed Lakes	47 19 47	123 24 54	468,646	5,241,690
3	Big Creek	Mount Washington	47 30 14	123 12 54	483,810	5,260,971
4	Bingham Creek	Mason	47 17 16	123 19 57	474,858	5,236,989
5	Boulder Creek	Mount Washington	47 36 10	123 13 46	482,751	5,271,971
6	Brown Creek	Lightning Peak	47 26 54	123 15 18	480,757	5,254,813
7	Canyon River	Mount Tebo	47 24 06	123 28 53	463,664	5,249,718
8	Cedar Creek	Mount Tebo	47 25 17	123 25 55	467,405	5,251,862
9	Church Creek	Mount Tebo	47 27 11	123 28 53	463,712	5,255,424
10	Cranberry Creek	Union	47 16 49	123 02 43	496,557	5,236,094
11	Croquallum Creek	Nahwatzel Lake	47 08 35	123 15 19	480,638	5,220,896
12	Decker Creek	Matlock	47 14 14	123 27 24	465,429	5,231,412

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Mason County--Continued				
13	Deer Creek	Mason Lake	47 17 14	122 57 44	502,848	5,236,880
14	Dewatto River	Holly	47 31 15	122 57 41	502,899	5,262,834
15	Dry Bed Creek	Dry Bed Lakes	47 17 54	123 24 08	469,578	5,238,207
16	Dry Creek	Dry Bed Lakes	47 16 59	123 22 35	471,524	5,236,494
17	Dry Creek	Lightning Peak	47 28 26	123 20 45	473,934	5,257,67C
18	Dry Run Creek	Elma	47 07 04	123 24 03	469,585	5,218,12E
19	Five Stream	Mount Olson	47 31 18	123 25 19	468,229	5,263,012
20	Four Stream	Mount Tebo	47 29 52	123 23 15	470,800	5,260,35C
21	Frigid Creek	Hoodsport	47 22 30	123 14 25	481,857	5,246,675
22	Goldsborough Creek, South Fork	Nahwatzel Lake	47 11 36	123 15 03	480,994	5,226,47E
23	Gosnell Creek	Shelton Valley	47 08 27	123 10 56	486,166	5,220,633
24	Hamma Hamma River	Mount Skokomish	47 34 21	123 17 20	478,253	5,268,60E
25	Jefferson Creek	Mount Washington	47 32 45	123 12 56	483,769	5,265,65E
26	Johns Creek	Union	47 15 29	123 05 45	492,732	5,233,64E
27	Lebar Creek	Mount Tebo	47 27 21	123 22 47	471,375	5,255,703
28	Lilliwaup Creek	Hoodsport	47 29 33	123 09 33	487,995	5,259,697
29	Lystair Lake	Nahwatzel Lake	47 08 28	123 19 40	475,141	5,220,687
30	Madeline Creek	Mount Skokomish	47 33 42	123 21 55	472,501	5,267,454
31	McKay Creek	Mount Olson	47 30 54	123 24 45	468,938	5,262,279
32	McTaggert Creek	Hoodsport	47 22 52	123 13 42	482,763	5,247,343
33	Mission Creek	Lake Wooten	47 28 21	122 52 42	509,161	5,257,47E
34	Outlet Creek	Mason	47 16 01	123 19 14	475,746	5,234,667
35	Phillips Creek	Nahwatzel Lake	47 13 15	123 17 47	477,552	5,229,533
36	Pine Creek	Mount Tebo	47 26 11	123 27 53	464,943	5,253,567
37	Price Lake	Hoodsport	47 28 22	123 09 34	487,975	5,257,504
38	Rabbit Creek	Dry Bed Lakes	47 16 22	123 27 36	465,205	5,235,37E
39	Rendsland Creek	Lilliwaup	47 24 10	123 04 54	493,828	5,249,73E
40	Rock Creek	Lightning Peak	47 23 22	123 21 02	473,538	5,248,28C
41	Rule Creek	Mount Tebo	47 29 04	123 28 25	464,315	5,258,902
42	Schneider Creek	Summit Lake	47 05 31	123 04 33	494,241	5,215,17E
43	Schumocher Creek	Union	47 18 58	123 02 08	497,311	5,240,097
44	Seven Stream	Mount Olson	47 34 03	123 25 44	467,738	5,268,107
45	Six Stream	Mount Olson	47 32 04	123 28 24	464,356	5,264,470
46	Skokomish River, North Fork	Mount Skokomish	47 36 21	123 18 20	477,013	5,272,325
47	Skokomish River, South Fork	Mount Olson	47 31 06	123 29 40	462,754	5,262,700
48	Skookum Creek	Kamilche Valley	47 06 06	123 10 53	486,235	5,216,264
49	Slate Creek	Mount Skokomish	47 31 30	123 19 54	475,012	5,263,345
50	Success Creek	Mount Olson	47 34 01	123 28 25	464,369	5,268,091
51	Union River	Wildcat Lake	47 30 53	122 47 18	515,922	5,262,192
52	Unnamed tributary to Decker Creek	Matlock	47 12 54	123 29 16	463,064	5,228,964
53	Unnamed trib. to Hamma Hamma River	Mount Skokomish	47 33 07	123 16 40	479,099	5,266,348
54	Unnamed trib. to O'Neil Creek	Mount Olson	47 35 41	123 25 27	468,097	5,271,138
55	Unnamed trib. to O'Neil Creek	Mount Olson	47 35 19	123 26 09	467,217	5,270,458
56	Unnamed trib. to Quinault River	Mount Olson	47 36 07	123 28 23	464,419	5,271,968

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Mason County--Continued				
57	Unnamed trib., Skokomish River, S.F.	Mount Olson	47 30 34	123 29 50	462,542	5,261,688
58	Vance Creek	Dry Bed Lakes	47 22 21	123 23 56	469,866	5,246,424
59	Waketickeh Creek	Eldon	47 34 57	123 03 22	495,765	5,269,704
60	Walter Creek	Mount Tebo	47 23 46	123 25 10	468,336	5,249,065
61	Washington Creek	Mount Washington	47 33 05	123 09 29	488,088	5,266,258
62	Winter Creek	Skokomish Valley	47 15 42	123 14 59	481,096	5,234,056
		Pacific County				
1	Bear Creek	Knappton	46 18 29	123 48 33	437,678	5,128,386
2	Bear River	Knappton	46 18 19	123 51 39	433,688	5,128,117
3	Blaney Creek	Blaney Creek	46 23 59	123 27 23	464,915	5,138,359
4	Bone River	Bay Center	46 39 36	123 53 36	431,638	5,167,549
5	Butte Creek	Raymond	46 44 16	123 42 33	445,814	5,176,075
6	Canon River	North Nemah	46 33 17	123 48 52	437,558	5,155,803
7	Canyon Creek	North Nemah	46 34 57	123 49 45	436,470	5,158,910
8	Cedar River, North Fork	Grayland	46 45 40	124 00 34	422,912	5,178,919
9	Chinook River	Chinook	46 16 55	123 56 05	427,981	5,125,587
10	Clearwater Creek	South Bend	46 44 45	123 45 55	441,534	5,177,010
11	Crim Creek	Pe Ell	46 30 15	123 22 04	471,762	5,149,933
12	Davis Creek	Knappton	46 20 05	123 49 01	437,120	5,131,363
13	Dell Creek	Knappton	46 21 40	123 51 20	434,166	5,134,317
14	Eight Creek	Pluvius	46 37 20	123 24 05	469,251	5,163,053
15	Elk Creek	Dean Creek	46 39 48	123 27 50	464,497	5,167,645
16	Elk Creek	Raymond	46 41 52	123 42 16	446,119	5,171,608
17	Elkhorn Creek, West Fork	Elkhorn Creek	46 47 17	123 43 01	445,257	5,181,654
18	Ellis Creek	Sweigiler Creek	46 29 02	123 32 23	458,561	5,147,753
19	Ellsworth Creek	Long Island	46 22 42	123 52 42	432,441	5,136,268
20	Fairchild Creek, North Fork	East of Raymond	46 42 57	123 35 11	455,173	5,173,559
21	Fall Creek	Pluvius	46 30 26	123 28 45	463,237	5,150,314
22	Fall River	Dean Creek	46 43 49	123 23 30	470,056	5,175,058
23	Fern Creek	Pluvius	46 32 43	123 28 10	463,992	5,154,530
24	Finn Creek	Oman Ranch	46 29 46	123 47 45	438,919	5,149,285
25	Fork Creek	Lebam	46 30 45	123 31 19	459,946	5,150,915
26	Grays River	Sweigiler Creek	46 26 35	123 33 10	457,534	5,143,206
27	Grays River	Blaney Creek	46 27 56	123 25 47	466,990	5,145,679
28	Grays River, East Fork	Blaney Creek	46 25 30	123 22 48	470,797	5,141,147
29	Half Moon Creek	Lebam	46 34 53	123 30 12	461,411	5,158,554
30	Johnson Creek	Knappton	46 18 30	123 47 20	439,255	5,128,412
31	Johnson Creek	Blaney Creek	46 27 28	123 28 51	463,051	5,144,815
32	Little Elk Creek	Dean Creek	46 38 44	123 27 20	465,130	5,165,676
33	Middle Nemah River	Oman Ranch	46 27 15	123 47 22	439,359	5,144,600
34	Mill Creek	Pluvius	46 37 20	123 29 55	461,814	5,163,092
35	Mitchell Creek	Blaney Creek	46 27 06	123 25 31	467,320	5,144,122

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Pacific County--Continued				
36	Naselle Creek	Sweigiler Creek	46 29 04	123 35 33	454,518	5,147,846
37	Niawiakum River	Nemah	46 37 21	123 54 07	430,939	5,163,395
38	North Naselle River	Menlo	46 30 49	123 42 42	445,404	5,151,168
39	North Nemah River	Upper Naselle River	46 26 59	123 44 54	442,518	5,144,032
40	Palix River, North Fork	South Bend	46 38 22	123 50 49	435,171	5,165,238
41	Palix River, South Fork	Nemah	46 34 51	123 54 33	430,329	5,158,777
42	Redfield Creek	Blue Mountain	46 46 24	123 25 59	466,914	5,179,861
43	Rock Creek	Pluvius	46 32 38	123 23 02	470,554	5,154,346
44	Rue Creek, West Fork	Menlo	46 36 22	123 40 44	447,990	5,161,423
45	Salmon Creek	Upper Naselle River	46 24 20	123 37 57	451,363	5,139,102
46	Sisson Creek	Rosburg	46 18 14	123 43 36	444,035	5,127,870
47	Skidmore Slough	South Bend	46 39 44	123 46 35	440,600	5,167,720
48	Smith Creek	Brooklyn	46 47 12	123 34 51	455,645	5,181,431
49	Smith Creek	Oman Ranch	46 23 48	123 52 03	433,307	5,138,296
50	South Nemah River	Oman Ranch	46 27 06	123 52 17	433,069	5,144,384
51	Sweigiler Creek	Sweigiler Creek	46 25 16	123 31 21	459,850	5,140,757
52	Swen Creek	Dean Creek	46 40 46	123 23 38	469,869	5,169,403
53	Trap Creek	Menlo	46 32 35	123 41 04	447,506	5,154,407
54	Unnamed tributary to Alder Creek	Upper Naselle River	46 28 53	123 38 06	451,245	5,147,539
55	Unnamed tributary to Canon River	North Nemah	46 34 25	123 49 15	437,077	5,157,911
56	Unnamed tributary to Fall River	Dean Creek	46 42 37	123 23 12	470,423	5,172,820
57	Unnamed tributary to Grays River	Blaney Creek	46 28 39	123 27 26	464,886	5,147,006
58	Unnamed tributary to Grays River	Blaney Creek	46 25 59	123 26 02	466,647	5,142,039
59	Unnamed tributary to Naselle River, N.F.	Upper Naselle River	46 28 50	123 43 08	444,808	5,147,490
60	Unnamed tributary to North River	Western	46 47 33	123 53 43	431,652	5,182,295
61	Unnamed tributary to Palix River, N.F.	North Nemah	46 37 20	123 49 37	436,683	5,163,321
62	Unnamed tributary to Smith Creek	Brooklyn	46 45 41	123 37 16	452,560	5,178,642
63	Unnamed tributary to Grays River	Sweigiler Creek	46 26 14	123 32 19	458,610	5,142,575
64	Unnamed tributary to Hull Creek	Sweigiler Creek	46 24 19	123 35 43	454,231	5,139,057
65	Wallacut River	Cape Disappointment	46 19 13	124 00 03	422,945	5,129,922
66	Whitecomb Creek	Raymond	46 39 36	123 38 00	451,526	5,167,370
67	Willapa River	Pluvius	46 31 14	123 26 56	465,557	5,151,788
68	Willapa River, South Fork	North Nemah	46 32 50	123 45 48	441,469	5,154,933
69	Williams Creek	North Nemah	46 31 15	123 46 11	440,956	5,152,004
70	Wilson Creek	East of Raymond	46 40 00	123 31 08	460,292	5,168,066
71	Wilson Creek, North Fork	East of Raymond	46 41 27	123 33 10	457,715	5,170,773
72	Work Creek	East of Raymond	46 43 59	123 37 06	452,735	5,175,493

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Pierce County				
1	Beaver Creek	Elbe	46 48 19	122 07 39	566,573	5,183,682
2	Busy Wild Creek	Ashford	46 48 07	122 01 14	574,724	5,183,429
3	Camp Creek	Greenwater	47 09 00	121 42 33	597,854	5,222,437
4	Canyon Creek	Cyclone Creek	47 07 31	121 51 33	586,526	5,219,499
5	Carbon River	Mowich Lake	46 54 07	121 46 39	593,101	5,194,778
6	Cataract Creek	Mowich Lake	46 56 39	121 48 29	590,704	5,199,452
7	Cayada Creek	Bearhead Mountain	47 01 01	121 51 02	587,340	5,207,503
8	Chenuis Creek	Mowich Lake	46 59 35	121 45 58	593,809	5,204,918
9	Chinook Creek	Chinook Pass	46 50 06	121 32 17	611,476	5,187,666
10	Clarks Creek	Puyallup	47 10 31	122 18 59	551,788	5,224,667
11	Clearwater Creek	Bearhead Mountain	47 02 31	121 47 13	592,144	5,210,335
12	Clover Creek	Tacoma South	47 07 31	122 25 02	544,198	5,219,043
13	Copper Creek	Mount Wow	46 45 55	121 57 41	579,293	5,173,388
14	Deer Creek	Mount Wow	46 49 06	121 58 09	578,625	5,185,279
15	Deer Creek	Chinook Pass	46 49 48	121 30 55	613,224	5,187,127
16	Eleanor Creek	Clear West Peak	47 01 58	121 38 06	603,708	5,209,511
17	Evans Creek	Golden Lakes	46 57 18	121 58 19	578,221	5,200,484
18	Fennel Creek	Sumner	47 09 14	122 10 55	562,014	5,222,396
19	Fryingpan Creek	Mount Rainier East	46 52 09	121 38 54	603,010	5,191,306
20	Gale Creek	Old Baldy Mountain	47 02 09	121 58 29	577,891	5,209,454
21	George Creek	Noble Knob	47 05 00	121 28 58	615,162	5,215,328
22	Goat Creek	Norse Peak	46 59 52	121 29 59	614,055	5,205,801
23	Greenwater Creek	Noble Knob	47 00 37	121 26 31	618,423	5,207,287
24	Horn Creek	Harts Lake	46 55 06	122 27 47	540,869	5,196,031
25	Huckleberry Creek	Sunrise	46 56 48	121 38 44	603,077	5,199,927
26	Hylebos Creek	Poverty Bay	47 15 06	122 19 49	550,676	5,233,152
27	Inter Fork River	Sunrise	46 53 48	121 40 56	600,370	5,194,312
28	Ipsut Creek	Mowich Lake	46 57 52	121 50 13	588,477	5,201,662
29	Kautz Creek	Mount Rainier West	46 48 03	121 47 13	592,565	5,183,537
30	Kings Creek	Lake Kapowsin	46 59 39	122 09 37	563,842	5,204,662
31	Kotsuck Creek	Chinook Pass	46 50 23	121 32 56	610,638	5,188,169
32	Lost Creek	Sun Top	47 00 12	121 36 27	605,846	5,206,267
33	Lost Creek	Noble Knob	47 02 56	121 27 32	617,054	5,211,538
34	Lynch Creek	Lake Kapowsin	46 52 34	122 12 14	560,652	5,191,507
35	Maggie Creek	Noble Knob	47 04 33	121 25 08	620,034	5,214,604
36	Mashel Creek	Ashford	46 51 56	122 04 31	570,466	5,190,435
37	Meadow Creek	Golden Lakes	46 56 05	121 53 53	583,878	5,198,297
38	Midway Creek	Elbe	46 50 22	122 14 45	557,502	5,187,408
39	Milky Creek	Bearhead Mountain	47 05 07	121 45 28	594,274	5,215,168
40	Minter Creek	Burley	47 23 12	122 41 48	522,895	5,247,979
41	Moraine Creek	Mowich Lake	46 56 22	121 46 58	592,642	5,198,939
42	Muck Creek	Spanaway	47 00 25	122 22 50	547,068	5,205,933
43	Muddy Fork Cowlitz River	Mount Rainier East	46 48 43	121 40 17	601,352	5,184,936
44	Niesson Creek	Le Dout Creek	46 53 24	122 01 54	573,750	5,193,178

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Pierce County--Continued				
45	Nisqually River	Mount Rainier East	46 47 39	121 44 49	595,624	5,182,845
46	North Mowich River	Mowich Lake	46 53 51	121 50 03	588,783	5,194,237
47	North Puyallup River	Mount Rainier West	46 50 42	121 51 48	586,657	5,188,354
48	Ohanapecosh River	Chinook Pass	46 49 45	121 37 02	605,459	5,186,90?
49	Ohop Creek	Lake Kapowsin	46 56 36	122 11 02	562,096	5,198,985
50	Panther Creek	Cougar Lake	46 47 34	121 29 24	615,237	5,183,041
51	Prairie Creek, East Fork	Old Baldy Mountain	47 04 06	121 52 38	585,236	5,213,162
52	Prairie Creek, South Fork	Old Baldy Mountain	47 03 04	121 54 38	582,731	5,211,20?
53	Pyramid Creek	Mount Rainier West	46 46 46	121 48 50	590,535	5,181,140
54	Rocky Creek	Vaughn	47 22 21	122 46 48	516,592	5,246,37?
55	Rushingwater Creek	Golden Lakes	46 53 57	121 57 03	579,913	5,194,276
56	Silver Creek	Norse Peak	46 56 34	121 28 18	616,305	5,199,731
57	South Creek	Tanwax Lake	46 58 15	122 19 41	551,110	5,201,953
58	South Mowich River	Mount Rainier West	46 52 14	121 50 36	588,141	5,191,22?
59	South Puyallup River	Mount Rainier West	46 49 12	121 51 08	587,543	5,185,607
60	Spray Creek	Mowich Lake	46 54 46	121 51 04	587,482	5,195,897
61	St. Andrews Creek	Mount Wow	46 50 06	121 54 37	583,093	5,187,187
62	Sunrise Creek	White River Park	46 57 17	121 32 40	610,748	5,200,947
63	Tahoma Creek	Mount Rainier West	46 48 22	121 50 31	588,341	5,184,062
64	Tanwax Creek	Tanwax Lake	46 55 03	122 20 42	549,877	5,195,99?
65	Tolmie Creek	Golden Lakes	46 58 16	121 55 41	581,531	5,202,313
66	Twentyeight Mile Creek	Sun Top	47 05 13	121 31 20	612,154	5,215,67?
67	Twentyfive Mile Creek	Lake Kapowsin	46 55 39	122 13 54	558,483	5,197,172
68	Unamed trib. to White River, W.F.	Sunrise	46 58 33	121 43 06	597,484	5,203,06?
69	Unnamed trib. to Little Mashel River	Elbe	46 50 09	122 13 36	558,972	5,187,010
70	Unnamed trib. to Spanaway Lake	Spanaway	47 06 10	122 26 53	541,877	5,216,52?
71	Unnamed trib. to Mashel River	Ashford	46 50 16	122 03 28	571,834	5,187,371
72	Unnamed trib. to North Mowich River	Mowich Lake	46 53 45	121 50 34	588,146	5,194,05?
73	Unnamed trib. to Puyallup River	Le Dout Creek	46 55 31	122 03 21	571,875	5,197,081
74	Unnamed trib. to Puyallup River	Mount Wow	46 48 55	121 55 42	581,755	5,184,991
75	Unnamed trib. to White River	Sunrise	46 52 59	121 40 53	600,455	5,192,79?
76	Van Trump Creek	Mount Rainier West	46 46 46	121 46 43	593,231	5,181,193
77	Viola Creek	Clear West Peak	47 02 02	121 44 13	595,944	5,209,49?
78	Voight Creek	Le Dout Creek	46 57 27	122 01 09	574,622	5,200,691
79	White River	Sunrise	46 52 37	121 40 30	600,956	5,192,143
80	White River, West Fork	Sunrise	46 55 09	121 44 18	596,051	5,196,751
81	Wilkeson Creek	Old Baldy Mountain	47 05 01	121 59 42	576,272	5,214,737
82	Winthrop Creek	Sunrise	46 54 30	121 43 32	597,051	5,195,56?

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Skagit County				
1	Alder Creek	Finney Peak	48 25 35	121 40 37	597,878	5,364,320
2	Alder Creek	Hamilton	48 32 53	121 57 12	577,230	5,377,549
3	Alma Creek	Big Devil Peak	48 34 49	121 18 13	625,109	5,381,988
4	Arrow Creek	Illabot Peak	48 23 53	121 23 07	619,514	5,361,609
5	Bachelor Creek	Downey Mountain.	48 18 24	121 07 41	638,798	5,351,870
6	Bear Creek	Welker Peak	48 37 33	121 44 53	592,244	5,386,430
7	Bear Creek	Grandy Lake	48 37 05	121 45 01	592,101	5,385,555
8	Big Creek	Huckleberry Mountain	48 20 54	121 19 33	624,035	5,356,172
9	Bluebell Creek	Illabot Peak	48 25 33	121 25 31	616,492	5,364,629
10	Boston Creek	Cascade Pass	48 29 16	121 05 25	641,102	5,372,079
11	Boulder Creek	Snowking Mountain.	48 28 39	121 20 00	623,157	5,370,495
12	Carry Creek	Day Lake	48 25 40	121 59 37	574,439	5,364,130
13	Cascade River, Middle Fork	Cascade Pass	48 26 13	121 03 46	643,285	5,366,477
14	Cascade River, North Fork	Cascade Pass	48 28 53	121 04 57	641,700	5,371,382
15	Cascade River, South Fork	Cascade Pass	48 22 48	121 06 42	639,815	5,360,062
16	Cascade River, South Fork	Dome Peak	48 22 14	121 04 23	642,695	5,359,066
17	Cavanaugh Creek	Cavanaugh Creek	48 38 21	122 03 38	569,208	5,387,570
18	Chute Creek	Gee Point	48 23 51	121 46 16	590,956	5,361,008
19	Clendenen Creek	Finney Peak	48 24 30	121 44 40	592,909	5,362,255
20	Cleve Creek	Cascade Pass	48 26 22	121 06 13	640,251	5,366,675
21	Corkindale Creek	Marblemount	48 30 27	121 29 00	612,003	5,373,597
22	Crane Creek	Stimson Hill	48 19 46	122 06 44	565,786	5,353,101
23	Crevice Creek	Fortson	48 21 20	121 38 44	600,324	5,356,486
24	Cumberland Creek	Day Lake	48 28 17	121 58 04	576,284	5,368,995
25	Day Creek	Day Lake	48 23 47	121 56 58	577,751	5,360,696
26	Deer Creek	Fortson	48 21 07	121 44 26	593,305	5,355,968
27	Deforest Creek	Gee Point	48 23 39	121 51 08	584,951	5,360,533
28	Diobsud Creek	Bacon Peak	48 38 03	121 32 23	607,582	5,387,598
29	Falls Creek	Damnation Peak	48 37 57	121 26 58	614,226	5,387,542
30	Finney Creek	Gee Point	48 25 07	121 50 27	585,758	5,363,275
31	Fisher Creek	Mount Arriva	48 33 50	120 52 23	656,907	5,380,954
32	Found Creek	Snowking Mountain	48 26 20	121 15 10	629,224	5,366,357
33	Gee Creek	Gee Point	48 26 12	121 48 07	588,604	5,365,327
34	Gilligan Creek	Haystack Mountain	48 26 27	122 06 45	565,629	5,365,484
35	Goat Creek	Downey Mountain	48 20 52	121 09 53	635,972	5,356,374
36	Grade Creek	Illabot Peak	48 22 50	121 25 46	616,275	5,359,593
37	Grandy Creek	Grandy Lake	48 33 42	121 48 53	587,442	5,379,204
38	Granite Creek	Mount Arriva	48 31 50	120 45 12	665,857	5,377,517
39	Hansen Creek	Sedro-Woolley North	48 31 04	122 11 45	559,382	5,373,944
40	Hidden Lake Creek	Sonny Boy Lakes	48 29 44	121 09 31	636,027	5,372,810
41	Higgins Creek	Mount Higgins	48 19 39	121 47 22	589,713	5,353,196
42	Hilt Creek	Rockport	48 26 29	121 34 33	605,324	5,366,119
43	Horse Creek	Downey Mountain	48 19 49	121 13 58	630,985	5,354,309
44	Howard Creek	Twin Sisters Mountain	48 38 31	121 58 57	574,959	5,387,960

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Skagit County--Continued				
45	Illabot Creek	Snowking Mountain	48 23 20	121 18 48	624,858	5,360,699
46	Irene Creek	Big Devil Peak	48 30 34	121 18 00	625,561	5,374,108
47	Jackman Creek	Sauk Mountain	48 35 01	121 32 49	607,144	5,381,975
48	Jones Creek	Lyman	48 33 44	122 02 55	570,192	5,379,02?
49	Jordan Creek	Snowking Mountain	48 27 10	121 21 54	620,888	5,367,720
50	Kindy Creek	Downey Mountain	48 22 19	121 11 07	634,381	5,359,042
51	Klawatti Creek	Forbidden Peak	48 33 29	121 04 39	641,852	5,379,907
52	Lake Creek	Mc Murray	48 20 25	122 12 23	558,794	5,354,230
53	Little Deer Creek	Day Lake	48 25 57	121 55 25	579,611	5,364,73(
54	Logan Creek	Mount Logan	48 33 58	120 58 54	648,901	5,380,98(
55	Loretta Creek	Lyman	48 30 04	122 01 18	572,253	5,372,26?
56	Marble Creek	Eldorado Peak	48 32 08	121 10 33	634,641	5,377,237
57	McAllister Creek	Eldorado Peak	48 34 37	121 08 39	636,880	5,381,885
58	Mill Creek	Gee Point	48 28 56	121 52 23	583,259	5,370,300
58	Milt Creek	Sonny Boy Lakes	48 24 32	121 08 31	637,503	5,363,221
60	Mutchler Creek	Sonny Boy Lakes	48 24 34	121 14 37	629,963	5,363,084
61	Newhalem Creek	Eldorado Peak	48 35 12	121 13 24	631,006	5,382,83?
62	Newhalem Creek, East Fork	Eldorado Peak	48 37 14	121 10 50	634,068	5,386,661
63	Nookachamps Creek, East Fork	Sedro-Woolley South	48 24 53	122 08 22	563,677	5,362,540
64	O'Toole Creek	Day Lake	48 28 26	121 54 59	580,072	5,369,34?
65	Olson Creek	Marblemount	48 32 38	121 26 45	614,692	5,377,700
66	Otter Creek	Snowking Mountain	48 25 33	121 18 49	624,746	5,364,814
67	Panther Creek	Mount Logan	48 36 21	120 54 31	654,163	5,385,55?
68	Pilchuck Creek	Stimson Hill	48 21 37	122 00 27	573,514	5,356,624
69	Plumbago Creek	Lyman	48 36 36	122 05 35	566,833	5,384,305
70	Pressentin Creek	Gee Point	48 26 27	121 51 48	584,054	5,365,737
71	Quartz Creek	Gee Point	48 29 10	121 47 16	589,560	5,370,829
72	Rocky Creek	Haystack Mountain	48 25 14	122 03 26	569,749	5,363,26?
73	Rocky Creek	Sauk Mountain	48 32 51	121 31 33	608,783	5,378,00(
74	Rollins Creek	Mount Higgins	48 18 56	121 51 21	584,819	5,351,811
75	Roush Creek	Eldorado Peak	48 30 12	121 08 07	637,738	5,373,719
76	Segelsen Creek	Fortson	48 18 56	121 42 31	595,728	5,351,978
77	Sibley Creek	Eldorado Peak	48 31 12	121 14 13	630,177	5,375,399
78	Skagit Queen Creek	Forbidden Peak	48 31 06	121 01 13	646,176	5,375,608
79	Sonny Boy Creek	Sonny Boy Lakes	48 25 51	121 10 27	635,050	5,365,593
80	South Branch N.F. Stillaguamish River	Fortson	48 20 32	121 41 18	597,178	5,354,975
81	Stillaguamish R., N.F., Middle Branch	Finney Peak	48 22 39	121 40 54	597,621	5,358,907
82	Stillaguamish River, N.F., N. Branch	Finney Peak	48 22 54	121 43 24	594,514	5,359,29(
83	Swamp Creek	Mount Arriva	48 33 51	120 45 12	665,734	5,381,22(
84	Tenas Creek	Huckleberry Mountain	48 18 48	121 20 46	622,612	5,352,259
85	Thunder Creek	Mount Logan	48 30 56	120 58 56	649,006	5,375,367
86	Thunder Creek	Sauk Mountain	48 36 59	121 34 37	604,875	5,385,599
87	Thunder Creek, South Fork	Lake Shannon	48 35 38	121 39 39	598,732	5,382,958
88	Thunder Creek, West Fork	Forbidden Peak	48 31 52	121 06 00	640,266	5,376,868

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Skagit County--Continued				
89	Unnamed tributary to Buck Creek	Huckleberry Mountain	48 22 15	121 16 27	627,815	5,358,753
90	Unnamed tributary to Buck Creek	Huckleberry Mountain	48 21 10	121 15 34	628,933	5,356,758
91	Unnamed tributary to Downey Creek	Dome Peak	48 20 44	121 06 24	640,285	5,356,239
92	Unnamed tributary to Downey Creek	Dome Peak	48 20 25	121 06 15	640,470	5,355,663
93	Unnamed tributary to Fisher Creek	Mount Logan	48 32 45	120 54 56	653,825	5,378,860
94	Unnamed tributary to Found Creek	Snowking Mountain	48 27 09	121 15 25	628,865	5,367,844
95	Unnamed tributary to Higgins Creek	Mount Higgins	48 21 04	121 48 19	588,506	5,355,819
96	Unnamed tributary to Kindy Creek	Sonny Boy Lakes	48 23 00	121 12 52	632,200	5,360,249
97	Unnamed tributary, Little Deer Creek	Day Lake	48 25 08	121 54 28	580,802	5,363,245
98	Unnamed tributary, Steamboat Slough	Conway	48 21 21	122 18 49	550,838	5,355,882
99	Unnamed tributary, Steamboat Slough	Conway	48 19 15	122 19 56	549,497	5,351,993
100	Unnamed tributary to Bear Creek	Stimson Hill	48 21 25	122 05 08	567,722	5,356,171
101	Unnamed tributary to Gilligan Creek	Haystack Mountain	48 29 22	122 07 10	565,042	5,370,873
102	Unnamed tributary to Pilchuck Creek	Stimson Hill	48 21 42	122 01 59	571,620	5,356,734
103	Unnamed tributary, Marble Creek	Eldorado Peak	48 32 32	121 11 25	633,569	5,377,950
104	Unnamed tributary to McAllister Creek	Forbidden Peak	48 35 56	121 07 25	638,331	5,384,363
105	Unnamed tributary, Newhalem Creek	Eldorado Peak	48 36 06	121 14 38	629,463	5,384,454
106	Unnamed tributary, Diobsud Creek	Bacon Peak	48 38 14	121 30 36	609,773	5,38[illegible].004
107	Walker Creek	Sedro-Woolley South	48 22 31	122 10 10	561,490	5,358,145
108	Watson Creek	Bacon Peak	48 38 03	121 35 53	603,288	5,387,517
109	White Creek	Rockport	48 25 03	121 30 21	610,549	5,363,569
		Skamania County				
1	Adams Creek	Green Mountain	46 15 16	121 33 26	611,192	5,123,144
2	Alec Creek	Spencer Butte	46 12 09	121 53 01	586,113	5,116,938
3	Ape Glacier	Smith Creek Butte	46 11 56	122 06 41	568,543	5,116,339
4	Bear Creek	Big Huckleberry Mountain	45 47 58	121 47 39	593,692	5,072,281
5	Bear Creek	Spirit Lake East	46 15 01	122 03 00	573,212	5,122,091
6	Big Creek	Lone Butte	46 06 15	121 47 36	593,244	5,106,125
7	Big Creek	French Butte	46 20 58	121 58 51	578,407	5,133,167
8	Big Hollow Creek	Bare Mountain	45 56 24	122 00 11	577,265	5,087,647
9	Big Rock Creek	Siouxon Peak	45 53 32	122 12 45	561,094	5,082,173
10	Black Creek	Gifford Peak	45 54 23	121 52 16	587,547	5,084,044
11	Bluebird Creek	Bobs Mountain	45 44 20	122 08 46	566,423	5,065,190
12	Boulder Creek	East Canyon Ridge	46 15 09	121 38 54	604,169	5,122,770
13	Calamity Creek	Bare Mountain	45 55 57	122 06 02	569,724	5,086,729
14	Canyon Creek	Lookout Mountain	45 51 57	122 06 28	569,244	5,07[illegible],333
15	Canyon Creek	Bridal Veil	45 35 57	122 12 46	561,389	5,04[illegible],628
16	Cat Creek	Green Mountain	46 21 59	121 37 27	605,818	5,135,479
17	Cedar Creek	Big Huckleberry Mtn.	45 48 38	121 51 00	589,335	5,073,430
18	Chinook Creek	Bare Mountain	45 58 44	122 05 57	569,775	5,091,896
19	Clear Creek	French Butte	46 15 06	121 53 20	585,648	5,122,413
20	Clearwater Creek	Spirit Lake East	46 17 31	122 03 11	572,920	5,126,732

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude (Degrees, minutes, and seconds)	Universal Mercator Grid 10 coordinates Easting (meters)	Universal Mercator Grid 10 coordinates Northing (meters)
		Skamania County--Continued				
21	Coldwater Creek	Spirit Lake West	46 18 50	122 10 56	562,958	5,129,057
22	Copper Creek	Gumboot Mountain	45 46 21	122 12 06	562,072	5,068,862
23	Crater Creek	Lookout Mountain	45 51 01	122 02 56	573,839	5,077,647
24	Dark Creek	East Canyon Ridge	46 18 04	121 44 56	596,343	5,128,053
25	Deer Creek	Lookout Mountain	45 45 03	122 04 41	571,704	5,066,593
26	Dougan Creek	Bobs Mountain	45 41 19	122 09 18	565,793	5,059,597
27	Drift Creek	Bare Mountain	45 59 59	122 01 21	575,691	5,094,275
28	Dry Creek	Termination Point	45 56 45	121 58 33	579,373	5,088,351
29	Dryer Glacier	Mount St. Helens	46 09 19	122 14 17	558,824	5,111,370
30	Duncan Creek	Multnomah Falls	45 37 26	122 03 46	573,046	5,052,473
31	East Canyon Creek	East Canyon Ridge	46 17 08	121 39 21	603,524	5,126,439
32	Eightmile Creek	Big Huckleberry Mtn.	45 50 33	121 52 19	587,578	5,076,955
33	Elk Creek	French Butte	46 16 42	121 56 30	581,523	5,125,315
34	Falls Creek	Gifford Peak	45 57 01	121 51 49	588,069	5,088,949
35	Forest Creek	Stabler	45 45 19	121 57 51	580,557	5,067,189
36	Forsyth Glacier	Mount St. Helens	46 14 42	122 09 36	564,756	5,121,421
37	French Creek	Mc Coy Peak	46 15 41	121 47 07	593,616	5,123,608
38	Green Fork Lewis River	Gumboot Mountain	45 50 07	122 08 28	566,695	5,075,890
39	Green River	Spirit Lake East	46 19 56	122 04 23	571,329	5,131,177
40	Greenleaf Creek	Bonneville Dam	45 39 37	121 57 24	581,262	5,056,642
41	Hamilton Creek	Beacon Rock	45 42 15	122 00 50	576,756	5,061,432
42	Hardtime Creek	Burnt Peak	46 01 31	121 55 06	583,698	5,097,230
43	Iron Creek	French Butte	46 18 48	121 57 52	579,730	5,129,200
44	Jakes Creek	Siouxon Peak	45 52 57	122 10 16	564,302	5,081,127
45	Killen Creek	Green Mountain	46 17 37	121 32 49	611,917	5,127,502
46	Layout Creek	Lookout Mountain	45 48 55	122 02 44	574,151	5,073,750
47	Lewis River	Mount Adams West	46 14 54	121 35 04	609,106	5,122,405
48	Lewis River, E.F.	Lookout Mountain	45 49 08	122 06 35	569,160	5,074,103
49	Little Creek	Gumboot Mountain	45 49 56	122 10 48	563,681	5,075,534
50	Little Wind River	Carson	45 44 42	121 46 24	595,408	5,066,236
51	Lookout Creek	Lookout Mountain	45 46 28	122 07 12	568,410	5,069,169
52	Marble Creek	Mount Mitchell	46 04 31	122 08 14	566,713	5,102,562
53	McCoy Creek	Mc Coy Peak	46 18 22	121 47 42	592,790	5,128,555
54	McKinley Creek	Gumboot Mountain	45 49 25	122 11 57	562,203	5,074,566
55	Meadow Creek	Lone Butte	46 04 05	121 50 47	589,214	5,102,046
56	Miller Creek	Burnt Peak	46 03 15	121 58 14	579,628	5,100,365
57	Miners Creek	Spirit Lake West	46 21 28	122 12 06	561,405	5,133,890
58	Mouse Creek	Big Huckleberry Mtn.	45 50 21	121 51 10	589,092	5,076,620
59	Muddy River	Smith Creek Butte	46 10 06	122 05 57	569,526	5,112,939
60	Nelson Glacier	Mount St. Helens	46 13 59	122 07 37	567,301	5,120,102
61	Ninemile Creek	Termination Point	45 53 20	121 55 23	583,552	5,082,074
62	North Siouxon Creek	Mount Mitchell	46 00 17	122 10 49	563,461	5,094,694
63	Ole Creek	Mount Mitchell	46 02 35	122 14 02	559,267	5,098,906
64	Outlaw Creek	Burnt Peak	46 01 35	121 54 34	584,391	5,097,354

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Skamania County--Continued				
65	Panther Creek	Gifford Peak	45 52 55	121 48 41	592,222	5,081,425
66	Paradise Creek	Termination Point	45 58 10	121 57 32	580,656	5,090,966
67	Pass Creek	Steamboat Mountain	46 10 40	121 42 07	600,186	5,114,430
68	Pepper Creek	Burnt Peak	46 04 27	121 59 10	578,398	5,102,581
69	Pete Gulch	Termination Point	45 58 42	121 53 22	586,017	5,092,047
70	Pin Creek	Steamboat Mountain	46 13 30	121 42 28	599,642	5,119,658
71	Pine Creek	Smith Creek Butte	46 08 10	122 05 36	570,029	5,109,365
72	Pinto Creek	French Butte	46 19 11	121 54 10	584,471	5,129,962
73	Poison Creek	Steamboat Mountain	46 11 41	121 43 41	598,146	5,116,268
74	Puny Creek	Bare Mountain	45 54 02	122 05 27	570,505	5,083,198
75	Quartz Creek	Cowlitz Falls	46 22 56	122 04 07	571,610	5,136,735
76	Range Creek	Cedar Flats	46 01 26	122 07 10	568,146	5,096,881
77	Riley Creek	Mount Adams West	46 13 28	121 35 29	608,635	5,119,749
78	Rock Creek	Lookout Mountain	45 47 00	122 03 47	572,826	5,070,215
79	Rush Creek	Lone Butte	46 01 52	121 50 08	590,105	5,097,954
80	Sasquatch Steps	Mount St. Helens	46 14 06	122 10 57	563,031	5,120,283
81	Silver Creek	Bobs Mountain	45 43 35	122 07 52	567,608	5,063,815
82	Siouxon Creek	Bare Mountain	45 56 08	122 04 26	571,792	5,087,088
83	Slide Creek	Gumboot Mountain	45 50 33	122 13 38	559,998	5,076,625
84	Smith Creek	Smith Creek Butte	46 14 27	122 05 27	570,076	5,121,007
85	Snagtooth Creek	Quartz Creek Butte	46 12 41	121 48 13	592,273	5,118,020
86	Sorehead Creek	Siouxon Peak	45 54 38	122 10 01	564,610	5,084,256
87	South Coldwater Creek	Spirit Lake West	46 17 22	122 13 08	560,151	5,126,287
88	Spring Creek	Bonneville Dam	45 44 13	121 55 26	583,704	5,065,197
89	Spring Creek	Green Mountain	46 19 29	121 34 21	609,882	5,130,921
90	Stebbins Creek	Beacon Rock	45 42 57	122 05 04	571,245	5,062,678
91	Straight Creek	Quartz Creek Butte	46 14 02	121 50 25	589,409	5,120,488
92	Studebaker Creek	Mount St. Helens	46 14 48	122 13 57	559,158	5,121,524
93	Summit Prairie Creek	East Canyon Ridge	46 17 40	121 43 17	598,464	5,127,358
94	Swampy Creek	Steamboat Mountain	46 11 14	121 39 31	603,511	5,115,520
95	Swift Creek	Mount St. Helens	46 08 31	122 10 13	564,074	5,109,958
96	Swift Creek, W.F.	Mount Mitchell	46 06 59	122 11 57	561,881	5,107,081
97	Tillicum Creek	Quartz Creek Butte	46 08 36	121 47 11	593,725	5,110,489
98	Trapper Creek	Bare Mountain	45 54 17	122 01 56	575,060	5,083,714
99	Trout Creek	Lookout Mountain	45 51 33	122 02 02	574,982	5,078,648
100	Trout Creek, E.F.	Lookout Mountain	45 50 21	122 01 21	575,902	5,076,456
101	Twin Falls Creek	Steamboat Mountain	46 12 52	121 38 42	604,513	5,118,554
102	Unnamed Glacial Runoff	Mount Mitchell	46 07 23	122 13 05	560,411	5,107,821
103	Unnamed trib. to Chickoon Creek	Quartz Creek Butte	46 08 42	121 52 01	587,489	5,110,584
104	Unnamed trib. to Lewis River	Spencer Butte	46 10 22	121 54 37	584,108	5,113,601
105	Unnamed trib. to Pine Creek	Cedar Flats	46 06 11	122 04 40	571,278	5,105,725
106	Unnamed trib. to Swift Reservoir	Cedar Flats	46 01 49	122 01 26	575,527	5,097,674
107	Unnamed trib., Washougal River, W.F.	Bobs Mountain	45 42 26	122 12 57	561,038	5,061,606
108	Unnamed tributary to Bear Creek	Big Huckleberry Mtn.	45 46 58	121 47 00	594,578	5,070,416

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Skamania County--Continued				
109	Unnamed tributary to Muddy River	Smith Creek Butte	46 08 54	122 01 45	574,961	5,110,772
110	Unnamed tributary to Pine Creek	Smith Creek Butte	46 08 16	122 06 32	568,817	5,109,546
111	Unnamed tributary to Pine Creek	Smith Creek Butte	46 07 39	122 04 08	571,917	5,108,442
112	Unnamed tributary to Siouxon Creek	Siouxon Peak	45 56 57	122 13 13	560,425	5,088,508
113	Unnamed tributary to Swift Creek	Mount Mitchell	46 05 38	122 11 34	562,399	5,104,589
114	Wakepish Creek	French Butte	46 19 28	121 58 16	579,197	5,130,395
115	Washougal River	Gumboot Mountain	45 46 18	122 08 02	567,324	5,068,846
116	Washougal River, West Fork	Bobs Mountain	45 43 24	122 13 16	560,605	5,063,406
117	West Creek	Siouxon Peak	45 56 29	122 09 55	564,688	5,087,663
118	Wildboy Creek	Bobs Mountain	45 40 15	122 13 01	560,975	5,057,586
119	Wind River	Termination Point	45 58 31	121 54 01	585,188	5,091,688
120	Woodward Creek	Beacon Rock	45 38 44	122 03 21	573,557	5,054,885
121	Worm Flows	Mount St. Helens	46 07 44	122 09 01	565,646	5,108,527
122	Wright Creek	Spencer Butte	46 11 59	121 57 02	580,949	5,116,577
123	Yellowjacket Creek	Mc Coy Peak	46 17 22	121 50 22	589,375	5,126,670
		Snohomish County				
1	All Creek	Prairie Mountain	48 17 38	121 25 40	616,612	5,349,952
2	Anderson Creek	Index	47 47 40	121 35 25	605,573	5,294,213
3	Armstrong Creek	Arlington West	48 14 03	122 07 41	564,736	5,342,487
4	Ashton Creek	Fortson	48 15 10	121 40 12	598,717	5,345,033
5	Baekos Creek	Glacier Peak West	48 05 12	121 08 22	638,555	5,327,401
6	Baldy Creek	Whitehorse Mountain	48 09 02	121 42 00	596,683	5,333,633
7	Bath Creek	Dome Peak	48 15 34	121 05 45	641,323	5,346,673
8	Bear Creek	Bothell	47 47 36	122 08 34	564,197	5,293,483
9	Bear Creek	Wallace Lake	47 52 58	121 43 40	595,113	5,303,865
10	Bear Creek	Evergreen Mountain	47 51 18	121 22 26	621,640	5,301,245
11	Beaver Creek	Silverton	48 04 50	121 31 04	610,385	5,326,116
12	Beckler River	Evergreen Mountain	47 52 07	121 18 48	626,137	5,302,865
13	Bedal Creek	Sloan Peak	48 04 02	121 22 18	621,311	5,324,853
14	Bender Creek	Silverton	48 04 15	121 35 23	605,046	5,324,934
15	Black Creek	White Chuck Mountain	48 14 24	121 24 58	617,597	5,343,984
16	Black Creek	Mallardy Ridge	48 02 39	121 43 07	595,495	5,321,812
17	Blackjack Creek	Silverton	48 03 15	121 36 52	603,236	5,323,03?
18	Boardman Creek	Mallardy Ridge	48 01 24	121 39 56	599,498	5,319,55?
19	Boulder Creek	Verlot	48 01 27	121 48 19	589,079	5,319,457
20	Boulder Creek	Mount Stickney	47 57 23	121 33 37	607,491	5,312,254
21	Boulder Creek	Evergreen Mountain	47 50 31	121 19 24	625,432	5,299,89?
22	Boulder River	Whitehorse Mountain	48 11 15	121 42 40	595,794	5,337,73?
23	Bowser Creek	Sloan Peak	48 00 01	121 15 50	629,492	5,317,582
24	Brooks Creek	Oso	48 17 45	121 54 14	581,300	5,349,573
25	Buck Creek	Bedal	48 03 23	121 27 52	614,416	5,323,487
26	Camp Creek	Pugh Mountain	48 08 12	121 15 13	629,920	5,332,755
27	Canyon Creek	Gamma Peak	48 13 43	121 00 24	648,037	5,343,42?

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Snohomish County--Continued				
28	Canyon Creek	Mallardy Ridge	48 07 10	121 41 25	597,462	5,330,193
29	Carpenter Creek	Lake Roesiger	47 58 59	121 57 49	577,324	5,314,733
30	Catherine Creek	Lake Stevens	48 01 09	122 03 21	570,387	5,318,658
31	Chocolate Creek	Glacier Peak East	48 07 29	121 02 41	645,489	5,331,806
32	Church Creek	Conway	48 15 06	122 18 25	551,430	5,344,298
33	Circle Creek	Pugh Mountain	48 13 50	121 20 55	622,630	5,343,027
34	Clear Creek	Helena Ridge	48 07 40	121 36 39	603,354	5,331,214
35	Coal Creek	Silverton	48 06 43	121 31 43	609,507	5,329,587
36	Copper Creek	Whitehorse Mountain	48 08 33	121 38 46	600,708	5,332,825
37	Cranberry Creek	Verlot	48 06 30	121 50 11	586,621	5,329,794
38	Crystal Creek	Pugh Mountain	48 12 05	121 21 01	622,585	5,339,797
39	Cub Creek	Riley Lake	48 10 12	121 56 39	578,503	5,335,524
40	Dan Creek	White Chuck Mountain	48 13 11	121 29 24	612,154	5,341,625
41	Decline Creek	White Chuck Mountain	48 14 34	121 28 19	613,447	5,344,197
42	Deer Creek	Silverton	48 06 23	121 34 27	606,138	5,329,900
43	Deer Creek	Index	47 49 53	121 34 25	606,738	5,299,345
44	Dick Creek	Wallace Lake	47 59 29	121 44 04	594,406	5,315,919
45	Dicks Creek	Mount Higgins	48 16 55	121 49 14	587,491	5,348,104
46	Dolly Creek	Gamma Peak	48 11 46	121 04 50	642,631	5,339,670
47	Dome Creek	Dome Peak	48 16 48	121 01 22	646,684	5,349,097
48	Dubuque Creek	Snohomish	47 59 37	122 00 52	573,522	5,315,852
49	Duffey Creek	Gold Bar	47 49 06	121 40 50	598,755	5,296,760
50	Dusty Creek	Gamma Peak	48 07 59	121 03 47	644,109	5,332,694
51	Eagle Creek	Baring	47 47 06	121 23 20	620,668	5,293,468
52	Elk Creek	Monte Cristo	47 56 00	121 29 17	612,930	5,309,786
53	Elliott Creek	Sloan Peak	48 00 37	121 20 49	623,275	5,318,558
54	Everett Creek	Silverton	48 01 12	121 35 26	605,086	5,319,267
55	Evergreen Creek	Captain Point	47 51 07	121 14 42	631,276	5,301,148
56	Excelsior Creek	Mount Stickney	47 52 32	121 30 36	611,400	5,303,324
57	Falls Creek, North Fork	Bedal	48 07 04	121 29 29	612,276	5,330,295
58	Fern Creek	Pugh Mountain	48 08 20	121 17 06	627,576	5,332,955
59	Five Creek	Lime Mountain	48 09 00	121 11 25	634,589	5,334,362
60	Fourth ofJuly Creek	Evergreen Mountain	47 47 53	121 21 50	622,520	5,294,964
61	French Creek	Snohomish	47 53 27	122 01 18	573,134	5,304,434
62	French Creek	Meadow Mountain	48 13 55	121 45 32	592,153	5,342,637
63	Gamma Creek	Gamma Peak	48 10 45	121 02 11	645,961	5,337,889
64	Gerkman Creek	Whitehorse Mountain	48 12 44	121 42 48	595,567	5,340,491
65	Glacier Creek	Blanca Lake	47 59 11	121 21 57	621,916	5,315,885
66	Goblin Creek	Blanca Lake	47 57 25	121 18 32	626,248	5,312,683
67	Goodman Creek	Helena Ridge	48 10 04	121 30 29	610,913	5,335,818
68	Gordon Creek	Mallardy Ridge	48 05 36	121 39 04	600,425	5,327,359
69	Grant Creek	Stimson Hill	48 17 52	122 02 01	571,665	5,349,640
70	Helena Creek	Helena Ridge	48 08 43	121 33 18	607,478	5,333,252
71	Howard Creek	Baring	47 51 39	121 25 06	618,293	5,301,831

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Snohomish County--Continued				
72	Jim Creek	Meadow Mountain	48 12 51	121 51 15	585,106	5,340,534
73	Johnson Creek	Captain Point	47 46 57	121 13 26	633,036	5,293,452
74	Kelly Creek	Mount Stickney	47 59 15	121 30 01	611,887	5,315,781
75	Kennedy Creek	Lime Mountain	48 07 34	121 09 32	636,997	5,331,744
76	Lime Creek	Lime Mountain	48 11 02	121 13 06	632,424	5,338,069
77	Little Jim Creek	Riley Lake	48 12 34	121 53 32	582,293	5,339,958
78	Little Pilchuck Creek	Lake Stevens	48 03 38	122 02 00	572,023	5,323,265
79	Lost Creek	Glacier Peak West	48 05 56	121 14 04	631,445	5,328,593
80	Mallardy Creek	Mallardy Ridge	48 01 56	121 38 25	601,370	5,320,566
81	Marsh Creek	Lake Chaplain	47 55 32	121 46 09	591,931	5,308,554
82	Marten Creek	Silverton	48 05 55	121 36 39	603,428	5,327,987
83	May Creek	Index	47 52 19	121 34 27	606,626	5,302,853
84	McCoy Creek	Sultan	47 49 08	121 47 16	590,730	5,296,674
85	Meadow Creek	Pugh Mountain	48 12 21	121 17 06	627,411	5,340,399
86	Meadow Creek	Captain Point	47 51 59	121 12 17	634,257	5,302,791
87	Meadow Creek	Meadow Mountain	48 11 36	121 48 06	589,046	5,338,297
88	Milk Creek	Lime Mountain	48 09 30	121 08 00	638,798	5,335,391
89	Milk Creek, East Fork	Lime Mountain	48 10 59	121 07 52	638,908	5,338,123
90	Miners Creek	Suiattle Pass	48 11 17	120 56 49	652,585	5,339,029
91	Montague Creek	Mount Higgins	48 15 47	121 52 05	583,999	5,345,964
92	Murphy Creek	Helena Ridge	48 11 03	121 31 19	609,859	5,337,627
93	North Creek	Bothell	47 48 42	122 12 35	559,162	5,295,471
94	Olney Creek	Wallace Lake	47 56 00	121 38 40	601,236	5,309,59€
95	Owl Creek	Pugh Mountain	48 09 33	121 16 38	628,115	5,335,22€
96	Palmer Creek	Bedal	48 02 33	121 27 16	615,187	5,321,95€
97	Pass Creek	Bench Mark Mountain	47 56 20	121 10 53	635,817	5,310,88€
98	Pearsall Creek	Bedal	48 01 56	121 23 49	619,503	5,320,922
99	Perry Creek	Bedal	48 04 52	121 28 01	614,165	5,326,24€
100	Pilchuck River	Wallace Lake	47 59 16	121 42 22	596,527	5,315,54€
101	Portage Creek	Arlington West	48 10 38	122 10 16	561,605	5,336,127
102	Proctor Creek	Gold Bar	47 47 24	121 38 26	601,818	5,293,631
103	Pugh Creek	Pugh Mountain	48 07 33	121 20 35	623,293	5,331,41€
104	Pumice Creek	Lime Nountain	48 08 22	121 11 47	634,170	5,333,17€
105	Quartz Creek	Blanca Lake	47 58 19	121 17 29	627,508	5,314,40€
106	Quilceda Creek, M.F.	Marysville	48 06 34	122 09 47	562,287	5,328,611
107	Quilceda Creek, W.F.	Marysville	48 06 20	122 11 12	560,533	5,328,138
108	Rapid River	Labyrinth Mountain	47 49 05	121 06 11	641,987	5,297,630
109	Rapid River, N.F.	Captain Point	47 51 54	121 09 57	637,156	5,302,725
110	Red Creek	Glacier Peak West	48 03 51	121 13 23	632,370	5,324,745
111	Saddle Creek	Meadow Mountain	48 09 37	121 46 40	590,878	5,334,629
112	Salmon Creek	Monte Cristo	47 55 00	121 29 55	612,164	5,307,933
113	Salmon Creek, S.F.	Monte Cristo	47 54 02	121 29 55	612,200	5,306,142
114	San Juan Creek	Evergreen Mountain	47 51 38	121 20 56	623,480	5,301,907
115	Sauk River	Glacier Peak West	48 00 14	121 08 21	638,787	5,318,213

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Snohomish County--Continued				
116	Silver Creek	Monte Cristo	47 57 44	121 23 56	619,516	5,313,147
117	Skykomish River, North Fork	Bench Mark Mountain	47 57 56	121 11 00	635,589	5,313,874
118	Sloan Creek	Bench Mark Mountain	47 59 14	121 12 13	634,027	5,316,232
119	Small Creek	Suiattle Pass	48 09 34	120 58 51	650,142	5,335,798
120	Spire Creek	Dome Peak	48 17 33	121 04 08	643,227	5,350,420
121	Squire Creek	Whitehorse Mountain	48 10 22	121 39 20	599,936	5,336,166
122	Stillaguamish River, South Fork	Bedal	48 00 45	121 28 30	613,716	5,318,614
123	Stony Creek	Silverton	48 00 47	121 33 01	608,098	5,318,555
124	Straight Creek	White Chuck Mountain	48 13 00	121 23 12	619,835	5,341,442
125	Suiattle River	Glacier Peak East	48 05 15	121 05 01	642,708	5,327,587
126	Sulpher Creek	Dome Peak	48 15 52	121 01 33	646,502	5,347,390
127	Sultan River	Monte Cristo	47 57 46	121 29 11	612,981	5,313,056
128	Sultan River, M.F., S.F.	Mount Stickney	47 55 55	121 36 10	604,365	5,309,473
129	Sultan River, N.F., S.F.	Mount Stickney	47 55 41	121 33 15	608,005	5,309,111
130	Swamp Creek	Edmonds East	47 47 58	122 15 21	555,710	5,294,074
131	Triad Creek	Suiattle Pass	48 07 40	120 59 02	650,022	5,332,273
132	Troublesome Creek	Blanca Lake	47 57 16	121 20 43	623,541	5,312,364
133	Troublesome Creek, West Fork	Monte Cristo	47 57 05	121 22 36	621,202	5,311,955
134	Trout Creek	Baring	47 49 23	121 23 04	620,905	5,297,700
135	Trout Creek, South Fork	Baring	47 49 00	121 25 24	618,009	5,296,929
136	Tulalip Creek	Tulalip	48 05 24	122 16 54	553,479	5,326,353
137	Unnamed trib., Stillaguamish River	Silverton	48 03 41	121 31 00	610,501	5,323,974
138	Unnamed trib., Boardman Creek	Mallardy Ridge	48 01 21	121 39 29	600,041	5,319,468
139	Unnamed trib. to Boulder River	Whitehorse Mountain	48 11 15	121 43 37	594,611	5,337,699
140	Unnamed trib. to Cadet Creek	Sloan Peak	48 01 24	121 17 57	626,801	5,320,088
141	Unnamed trib. to Cadet Creek	Blanca Lake	47 59 07	121 18 51	625,780	5,315,842
142	Unnamed trib. to Canyon Creek	Suiattle Pass	48 13 24	120 59 52	648,712	5,342,853
143	Unnamed trib. to Canyon Creek	Riley Lake	48 08 26	121 55 37	579,828	5,332,280
144	Unnamed trib. to Canyon Creek	Riley Lake	48 07 30	121 56 26	578,821	5,330,536
145	Unnamed trib. to Canyon Creek	Riley Lake	48 07 32	121 53 17	582,730	5,330,648
146	Unnamed trib. to Canyon Creek, N.F.	Riley Lake	48 10 50	121 52 41	583,389	5,336,770
147	Unnamed trib. to Fourth of July Creek	Evergreen Mountain	47 48 35	121 20 25	624,251	5,296,273
148	Unnamed trib. to French Creek	Maltby	47 52 23	122 01 37	572,749	5,302,441
149	Unnamed trib. to Goblin Creek	Blanca Lake	47 56 57	121 18 46	625,972	5,311,827
150	Unnamed trib. to Proctor Creek	Gold Bar	47 49 36	121 38 30	601,660	5,297,739
151	Unnamed trib. to Rapid River	Captain Point	47 50 11	121 09 03	638,360	5,299,579
152	Unnamed trib. to Rapid River	Captain Point	47 49 03	121 13 17	633,135	5,297,344
153	Unnamed trib. to Rapid River	Captain Point	47 48 27	121 13 54	632,400	5,296,216
154	Unnamed trib. to Rapid River	Captain Point	47 47 26	121 10 35	636,578	5,294,427
155	Unnamed trib. to Sauk River, S.F.	Monte Cristo	47 58 44	121 23 08	620,469	5,315,008
156	Unnamed trib. to Silver Creek	Monte Cristo	47 57 11	121 26 42	616,090	5,312,035
157	Unnamed trib., Skykomish River, N.F.	Bench Mark Mountain	47 58 15	121 09 56	636,908	5,314,478
158	Unnamed trib., Skykomish River, N.F.	Bench Mark Mountain	47 56 04	121 14 25	631,424	5,310,315
159	Unnamed trib., Skykomish River, N.F.	Bench Mark Mountain	47 55 37	121 13 16	632,869	5,309,514

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude (Degrees, minutes, and seconds)	Universal Mercator Grid 10 coordinates Easting (meters)	Universal Mercator Grid 10 coordinates Northing (meters)
		Snohomish County--Continued				
160	Unnamed trib., Skykomish River, N.F.	Bench Mark Mountain	47 55 13	121 14 40	631,155	5,308,714
161	Unnamed trib. to Sloan Creek	Bench Mark Mountain	47 58 57	121 14 09	631,624	5,315,663
162	Unnamed trib., Stillaguamish River, S.F.	Bedal	48 01 31	121 29 29	612,469	5,320,009
163	Unnamed trib. to Sulpher Creek	Dome Peak	48 17 15	121 06 04	640,848	5,349,790
164	Unnamed trib. to Troublesome Creek	Blanca Lake	47 55 26	121 21 38	622,470	5,308,923
165	Unnamed trib., Troublesome Crk., W.F.	Blanca Lake	47 56 09	121 22 18	621,600	5,310,236
166	Unnamed trib. to Trout Creek	Baring	47 50 09	121 23 09	620,777	5,299,105
167	Unnamed trib. to West Cady Creek	Bench Mark Mountain	47 53 33	121 11 33	635,113	5,305,710
168	Unnamed trib. to West Cady Creek	Captain Point	47 52 09	121 13 58	632,162	5,303,068
169	Unnamed trib. to West Cady Creek	Blanca Lake	47 53 35	121 16 50	628,513	5,305,648
170	Unnamed trib. to West Cady Creek	Blanca Lake	47 52 54	121 15 28	630,261	5,304,400
171	Unnamed trib. to White Chuck River	Glacier Peak West	48 04 15	121 08 59	637,828	5,325,641
172	Unnamed trib. to White Chuck River	Glacier Peak West	48 04 28	121 09 38	637,011	5,326,022
173	Unnamed trib. to Williamson Creek	Silverton	48 02 16	121 33 49	607,060	5,321,299
174	Unnamed tributary to Suiattle River	Glacier Peak East	48 06 01	121 01 27	647,091	5,329,128
175	Unnamed tributary to Suiattle River	Glacier Peak East	48 05 07	121 02 29	645,849	5,327,441
176	Vesper Creek	Mount Stickney	47 59 50	121 30 20	611,474	5,316,864
177	Vista Creek	Gamma Peak	48 09 23	121 05 16	642,214	5,335,238
178	Wallace River	Mount Stickney	47 53 50	121 33 25	607,851	5,305,679
179	Wallace River, N.F.	Wallace Lake	47 54 06	121 40 26	599,096	5,306,028
180	Weden Creek	Monte Cristo	47 59 10	121 26 34	616,188	5,315,731
181	West Cady Creek	Bench Mark Mountain	47 54 38	121 11 34	635,042	5,307,727
182	White Chuck River	Glacier Peak West	48 03 16	121 08 58	637,878	5,323,821
183	Wiley Creek	Mallardy Ridge	48 06 00	121 42 36	596,026	5,327,998
184	Williamson Creek	Silverton	48 01 49	121 32 03	609,279	5,320,499
185	Wilson Creek	Mallardy Ridge	48 01 13	121 44 54	593,324	5,319,096
186	Woods Creek	Lake Roesiger	47 59 39	121 52 46	583,580	5,316,041
187	Worthy Creek	Verlot	48 03 00	121 52 23	583,976	5,322,268
188	Youngs Creek	Gold Bar	47 47 25	121 44 24	594,372	5,293,569
		Thurston County				
1	Beaver Creek	Maytown	46 53 08	122 53 52	507,778	5,192,236
2	Dempsey Creek	Littlerock	46 58 03	123 01 05	498,609	5,201,336
3	Eaton Creek	Weir Prairie	46 57 47	122 44 58	519,041	5,200,899
4	Johnson Creek	Vail	46 49 36	122 43 38	520,800	5,185,736
5	Kennedy Creek	Kamilche Valley	47 02 46	123 08 09	489,675	5,210,090
6	Little Deschutes River	Eatonville	46 47 21	122 22 09	548,138	5,181,711
7	McAllister Creek	Nisqually	47 01 44	122 43 24	521,004	5,208,219
8	McLane Creek	Tumwater	47 01 44	122 59 26	500,711	5,208,152
9	Mima Creek	Littlerock	46 52 55	123 03 50	495,113	5,191,855
10	Mitchell Creek	Bald Hill	46 46 28	122 28 20	540,281	5,180,039
11	Percival Creek	Tumwater	47 01 38	122 55 54	505,189	5,207,981
12	Porter Creek, North Fork	Capitol Peak	46 59 49	123 10 08	487,159	5,204,628
13	Salmon Creek	Maytown	46 57 01	122 58 03	502,456	5,199,449

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Thurston County--Continued				
14	Scatter Creek	Bucoda	46 51 40	122 50 09	512,498	5,189,534
15	Sherman Creek	Capitol Peak	46 55 58	123 08 03	489,784	5,197,489
16	Thompson Creek	Bucoda	46 46 44	122 45 23	518,587	5,180,426
17	Thomson Creek	McKenna	46 56 16	122 37 29	528,558	5,198,104
18	Unnamed tributary to Deschutes River	Vail	46 50 11	122 39 01	526,652	5,186,827
19	Unnamed tributary to Deschutes River	East Olympia	46 58 57	122 49 49	512,896	5,203,038
20	Waddell Creek	Littlerock	46 58 51	123 05 23	493,174	5,202,841
21	Woodland Creek	Lacey	47 03 28	122 48 03	515,120	5,211,405
22	Yelm Creek	McKenna	46 53 48	122 35 24	531,226	5,193,555
		Wahkiakum County				
1	Alger Creek	Skamokawa	46 16 10	123 23 47	469,439	5,123,875
2	Beaver Creek	Nassa Point	46 13 31	123 18 12	476,594	5,118,901
3	Crooked Creek, South Fork	Grays River	46 17 55	123 35 59	453,797	5,127,195
4	Deep River	Rosburg	46 21 35	123 40 50	447,625	5,134,042
5	Elochoman River, North Fork	Skamokawa Pass	46 22 01	123 16 21	479,033	5,134,668
6	Elochoman River, West Fork	Skamokawa Pass	46 20 20	123 18 39	476,064	5,131,542
7	Falk Creek	Skamokawa	46 18 45	123 25 17	467,554	5,128,647
8	Fall Creek	Grays River	46 22 21	123 35 13	454,842	5,135,403
9	Fossil Creek	Grays River	46 21 34	123 30 33	460,825	5,133,903
10	Grays River, South Fork	Elochoman Pass	46 22 48	123 20 55	473,173	5,136,111
11	Jim Crow Creek	Grays River	46 17 52	123 33 02	457,580	5,127,081
12	Klints Creek	Grays River	46 21 12	123 32 47	457,947	5,133,257
13	Malone Creek	Rosburg	46 19 37	123 39 44	449,020	5,130,385
14	McDonald Creek	Skamokawa	46 20 28	123 23 51	469,392	5,131,812
15	Mill Creek	Elochoman Lake	46 15 46	123 14 44	481,069	5,123,060
16	Mill Creek, South Fork	Oak Point	46 11 10	123 13 21	482,815	5,114,542
17	Nelson Creek	Nassa Point	46 14 34	123 22 15	471,407	5,120,880
18	Otter Creek	Boistfort Peak	46 22 43	123 13 52	482,222	5,135,934
19	Skamokawa Creek, Left Fork	Skamokawa	46 20 03	123 27 51	464,270	5,131,062
20	Skamokawa Creek, West Fork	Skamokawa	46 18 29	123 28 50	462,988	5,127,187
21	Stardard Creek	Skamokawa	46 19 43	123 23 51	469,389	5,130,443
22	Unnamed tributary to Grays River, S.F.	Blaney Creek	46 22 54	123 23 39	469,672	5,136,322
23	West Valley Creek	Skamokawa	46 17 39	123 29 27	462,171	5,126,657
24	Wilson Creek	Skamokawa Pass	46 17 42	123 19 27	475,028	5,126,665
		Whatcom County				
1	Anderson Creek	Welker Peak	48 40 15	121 37 47	600,875	5,391,575
2	Anderson Creek	Mount Larrabee	48 53 58	121 43 14	593,765	5,416,857
3	Anderson Creek	Acme	48 39 51	122 13 12	557,423	5,390,218
4	Anderson Creek	Lawrence	48 49 23	122 20 06	548,804	5,407,791
5	Arctic Creek	Mount Spickard	48 52 40	121 08 35	636,138	5,415,331
6	Austin Creek	Lake Whatcom	48 42 48	122 19 35	549,545	5,395,612
7	Bacon Creek	Damnation Peak	48 41 28	121 28 51	611,791	5,394,026

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Whatcom County--Continued				
8	Bacon Creek, East Fork	Damnation Peak	48 43 39	121 24 30	617,031	5,398,179
9	Bagley Creek	Mount Larrabee	48 52 57	121 39 44	598,071	5,415,046
10	Baker River	Mount Blum	48 50 17	121 24 22	616,952	5,410,466
11	Bald Eagle Creek	Mount Blum	48 45 53	121 23 59	617,593	5,402,327
12	Bar Creek	Mount Baker	48 49 22	121 47 25	588,794	5,408,243
13	Bear Creek	Mount Redoubt	48 56 58	121 20 14	621,735	5,422,955
14	Bell Creek	Twin Sisters Mountain	48 41 51	121 52 44	582,495	5,394,214
15	Bertrand Creek	Bertrand Creek	49 00 00	122 31 22	534,899	5,427,347
16	Black Slough	Deming	48 46 39	122 11 26	559,457	5,402,831
17	Blum Creek	Bacon Peak	48 44 26	121 30 56	609,125	5,399,487
18	Boulder Creek	Welker Peak	48 44 53	121 44 43	592,232	5,400,012
19	Boulder Creek	Maple Falls	48 56 57	122 00 20	572,792	5,422,063
20	Breckenridge Creek	Sumas	48 55 31	122 17 59	551,291	5,419,195
21	Brush Creek	Mount Blum	48 52 21	121 23 57	617,382	5,414,305
22	California Creek	Blaine	48 55 44	122 40 41	523,581	5,419,378
23	Canyon Creek	Shull Mountain	48 49 08	120 45 22	664,711	5,409,545
24	Canyon Creek	Bearpaw Mountain	48 57 20	121 49 15	586,307	5,422,983
25	Canyon Creek	Canyon Lake	48 50 04	122 04 22	568,044	5,409,262
26	Canyon Creek, North Fork	Shull Mountain	48 48 13	120 48 01	661,508	5,407,744
27	Castle Fork	Castle Peak	48 56 07	120 48 21	660,671	5,422,388
28	Chilliwack River	Copper Mountain	48 52 41	121 29 28	610,621	5,414,781
29	Cinnamon Creek	Jack Mountain	48 51 59	120 53 08	655,050	5,414,546
30	Clearwater Creek	Groat Mountain	48 47 58	121 57 34	576,412	5,405,486
31	Cornell Creek	Glacier	48 53 17	121 57 33	576,287	5,415,344
32	Crater Creek	Crater Mountain	48 43 41	120 56 53	650,885	5,399,057
33	Crystal Creek	Mount Shuksan	48 48 15	121 30 57	608,979	5,406,552
34	Dakota Creek	Blaine	48 57 07	122 38 18	526,467	5,421,969
35	Damfino Creek	Mount Larrabee	48 57 18	121 43 04	593,863	5,423,046
36	Damnation Creek	Mount Triumph	48 38 53	121 22 00	620,297	5,389,417
37	Deadhorse Creek	Mount Baker	48 51 51	121 49 04	586,692	5,412,828
38	Depot Creek	Mount Redoubt	48 58 36	121 16 59	625,628	5,426,065
39	Devils Creek	Jack Mountain	48 46 49	120 54 12	654,019	5,404,952
40	Dobbs Creek	Mount Baker	48 50 46	121 47 52	588,192	5,410,846
41	East Creek	Azurite Peak	48 40 04	120 48 48	660,981	5,392,622
42	Ensawkwatch Creek	Mount Sefrit	48 59 27	121 31 09	608,318	5,427,280
43	Fishtrap Creek	Lynden	49 00 00	122 24 28	543,302	5,427,410
44	Freezeout Creek	Skagit Peak	48 57 20	120 55 35	651,803	5,424,373
45	Friday Creek	Lake Whatcom	48 38 54	122 22 13	546,376	5,388,364
46	Frost Creek	Glacier	48 59 50	121 59 43	573,494	5,427,422
47	Glacier Creek	Mount Baker	48 48 07	121 51 17	584,092	5,405,878
48	Goodell Creek	Mount Challenger	48 47 05	121 20 09	622,236	5,404,649
49	Green Creek	Twin Sisters Mountain	48 43 16	121 56 16	578,108	5,396,801
50	Grouse Creek	Groat Mountain	48 48 30	121 53 27	581,428	5,406,550

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Whatcom County--Continued				
51	Hidden Creek	Bacon Peak	48 42 59	121 31 33	608,424	5,396,764
52	Hutchinson Creek	Cavanaugh Creek	48 43 31	122 05 50	566,387	5,397,091
53	Indian Creek	Mount Redoubt	48 54 47	121 20 44	621,215	5,418,918
54	Jay Creek	Diablo Dam	48 44 56	121 13 00	631,078	5,400,875
55	Johnson Creek	Sumas	48 58 33	122 19 26	549,473	5,424,772
56	Kendall Creek	Kendall	48 56 09	122 08 08	563,299	5,420,498
57	Ladder Creek	Diablo Dam	48 39 50	121 11 39	632,956	5,391,446
58	Little Beaver Creek	Mount Challenger	48 52 25	121 19 55	622,315	5,414,534
59	Little Chilliwack River	Copper Mountain	48 58 14	121 27 54	612,344	5,425,100
60	Little Fork	Copper Mountain	48 57 17	121 26 25	614,173	5,423,396
61	Lonesome Creek	Mount Blum	48 45 14	121 26 52	614,074	5,401,061
62	Maple Creek	Maple Falls	48 57 51	122 04 12	568,066	5,423,696
63	McMillan Creek	Mount Challenger	48 47 35	121 16 22	626,842	5,405,676
64	Mill Creek	Azurite Peak	48 41 58	120 47 11	662,863	5,396,195
65	Mineral Creek	Mount Blum	48 50 30	121 25 30	615,551	5,410,838
66	Neve Creek	Ross Dam	48 39 00	121 05 54	640,055	5,390,098
67	Noisy Creek	Bacon Peak	48 40 23	121 33 16	606,410	5,391,908
68	Noname Creek	Hozomeen Mountain	48 53 10	121 04 14	641,446	5,416,394
69	Nooksack River, Middle Fork	Baker Pass	48 44 32	121 52 04	583,241	5,399,217
70	Nooksack River, North Fork	Mount Shuksan	48 50 26	121 33 23	605,928	5,410,532
71	Nooksack River, South Fork	Twin Sisters Mountain	48 41 02	121 55 11	579,505	5,392,672
72	Park Creek	Mount Baker	48 46 21	121 45 35	591,126	5,402,712
73	Pass Creek	Mount Blum	48 50 45	121 29 41	610,428	5,411,198
74	Perry Creek	Mount Spickard	48 56 40	121 13 05	630,472	5,422,598
75	Picket Creek	Mount Blum	48 48 50	121 22 42	619,035	5,407,839
76	Porter Creek	Canyon Lake	48 47 39	122 06 53	565,011	5,404,744
77	Quartz Creek	Bearpaw Mountain	48 57 42	121 45 45	590,571	5,423,715
78	Racehorse Creek	Canyon Lake	48 51 52	122 02 22	570,447	5,412,625
79	Rainbow Creek	Shuksan Arm	48 47 43	121 44 37	592,257	5,405,244
80	Redoubt Creek	Mount Redoubt	48 55 40	121 16 27	626,404	5,420,656
81	Ridley Creek	Twin Sisters Mountain	48 43 10	121 53 00	582,126	5,396,670
82	Rocky Creek	Groat Mountain	48 49 46	121 58 32	575,185	5,408,800
83	Ruth Creek	Mount Sefrit	48 53 34	121 33 24	605,792	5,416,330
84	Saar Creek	Kendall	48 57 39	122 13 12	557,094	5,423,178
85	Samish River	Acme	48 39 10	122 12 15	558,611	5,388,966
86	Sandy Creek	Baker Pass	48 43 17	121 46 31	590,063	5,397,000
87	Scramble Creek	Mount Blum	48 47 09	121 28 22	612,185	5,404,590
88	Shannon Creek	Bacon Peak	48 44 43	121 35 40	603,314	5,399,878
89	Sholes Creek	Mount Baker	48 51 02	121 46 14	590,190	5,411,369
90	Shuksan Creek	Shuksan Arm	48 48 32	121 38 10	600,124	5,406,905
91	Shull Creek	Shull Mountain	48 51 16	120 48 44	660,483	5,413,381
92	Silesia Creek	Copper Mountain	48 55 12	121 28 50	611,306	5,419,463
93	Silesia Creek, Middle Fork	Mount Sefrit	48 55 13	121 32 14	607,152	5,419,411
94	Silesia Creek, West Fork	Mount Sefrit	48 56 25	121 35 56	602,600	5,421,573

Table 3. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on streams in 17 counties in western Washington--Continued

Site identification number	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
		Whatcom County--Continued				
95	Sister Creek	Twin Sisters Mountain	48 44 52	121 58 22	575,504	5,399,718
96	Skookum Creek	Cavanaugh Creek	48 40 23	122 00 10	573,405	5,391,376
97	Slate Creek	Slate Peak	48 44 30	120 42 57	667,910	5,401,047
98	Slate Creek, S.F.	Slate Peak	48 42 20	120 44 11	666,522	5,397,005
99	Smith Creek	Groat Mountain	48 48 51	121 53 07	581,840	5,407,201
100	Smith Creek	Lawrence	48 50 27	122 15 39	554,227	5,409,831
101	Squalicum Creek	Bellingham North	48 47 13	122 26 17	541,273	5,403,708
102	Stetattle Creek	Mount Prophet	48 45 59	121 13 27	630,486	5,402,811
103	Stillwell Creek	Crater Mountain	48 40 18	120 58 32	649,023	5,392,743
104	Sulphide Creek	Mount Shuksan	48 48 12	121 34 52	604,185	5,406,361
105	Sulphur Creek	Baker Pass	48 42 19	121 48 28	587,706	5,395,157
106	Sumas River	Sumas	48 54 45	122 18 44	550,392	5,417,736
107	Swamp Creek	Mount Larrabee	48 56 07	121 40 13	597,371	5,420,895
108	Tenmile Creek	Bellingham North	48 51 57	122 28 41	538,275	5,412,468
109	Terrell Creek	Blaine	48 55 04	122 44 39	518,739	5,418,149
110	Terror Creek	Mount Triumph	48 44 22	121 17 16	625,874	5,399,713
111	Thompson Creek	Glacier	48 53 00	121 54 09	580,451	5,414,881
112	Thorton Creek	Mount Triumph	48 39 37	121 19 50	622,932	5,390,830
113	Three Fools Creek	Castle Peak	48 53 44	120 48 48	660,257	5,417,963
114	Triumph Creek	Damnation Peak	48 41 13	121 22 58	619,020	5,393,720
115	Unnamed trib. to Bacon Creek	Damnation Peak	48 42 26	121 28 17	612,460	5,395,830
116	Unnamed trib. to Goodell Creek	Mount Triumph	48 43 33	121 20 18	622,194	5,398,101
117	Unnamed trib. to Luna Creek	Mount Challenger	48 50 10	121 18 08	624,577	5,410,430
118	Unnamed trib. to Silver Creek	Mount Spickard	48 58 55	121 11 27	632,358	5,426,824
119	Unnamed tri.b to Sulphide Creek	Mount Shuksan	48 47 29	121 33 09	606,306	5,405,073
120	Unnamed trib. to Swift Creek	Shuksan Arm	48 49 44	121 40 50	596,833	5,409,059
121	Unnamed trib. to Tomyhoi Lake	Mount Larrabee	48 58 08	121 40 29	596,986	5,424,623
122	Unnamed tributary to Boulder Creek	Welker Peak	48 44 05	121 44 29	592,536	5,398,532
123	Unnamed tributary to Rocky Creek	Baker Pass	48 42 15	121 49 33	586,386	5,395,033
124	Wallace Creek	Groat Mountain	48 45 32	121 53 58	580,865	5,401,035
125	Wanlick Creek	Baker Pass	48 39 39	121 48 46	587,419	5,390,249
126	Warm Creek	Groat Mountain	48 46 23	121 56 45	577,446	5,402,564
127	Wells Creek	Shuksan Arm	48 50 57	121 44 17	592,566	5,411,237
128	White Salmon Creek	Shuksan Arm	48 51 09	121 38 17	599,897	5,411,748

Table 4. Upstream shoreline boundary points, as defined in the Shoreline Management Act of 1971, that are located on rivers of statewide significance in western Washington

Site identification number	County	Stream name	Quadrangle (7.5 minute)	Latitude (Degrees, minutes, and seconds)	Longitude	Universal Mercator Grid 10 coordinates Easting (meters)	Northing (meters)
1	Clallam	Bogachiel River	Reade Hill	47 53 19	124 20 50	399,281	5,304,606
2	Clallam	Calawah River	Forks	47 56 09	124 26 53	391,827	5,309,991
3	Clallam	Elwha River	Mount Angeles	47 52 56	123 28 25	464,576	5,303,107
4	Clallam	Soleduck River	Deadmans Hill	48 03 55	124 14 00	408,101	5,324,084
5	Clark	Washougal River	Washougal	45 36 25	122 20 27	551,393	5,050,390
6	Cowlitz	Kalama River	Woolford Creek	46 00 27	122 42 05	523,109	5,094,711
7	Cowlitz	Toutle River, N. F.	Toutle Mountain	46 22 21	122 34 54	532,170	5,135,310
8	Grays Harbor	Humptulips River	Humptulips	47 14 49	123 53 20	432,735	5,232,787
9	Grays Harbor	North River	Aberdeen SE	46 47 37	123 51 00	435,126	5,182,369
10	Grays Harbor	Wynoochee River	Wynoochee Valley NE	47 11 30	123 36 47	453,558	5,226,436
11	Jefferson	Clearwater River	Christmas Creek	47 38 41	124 14 34	406,658	5,277,361
12	Jefferson	Hoh River	Owl Mountain	47 52 03	123 53 21	433,500	5,301,753
13	Jefferson	Queets River	Kloochman Rock	47 41 05	123 53 12	433,442	5.281,432
14	Jefferson	Quinault River	Bunch Lake	47 32 25	123 39 57	449,883	5,265,207
15	King	Green River	Eagle Gorge	47 16 58	121 47 45	591,053	5,237,096
16	King	Green River	Cumberland	47 19 23	121 54 21	582,662	5,241,446
17	King	Skykomish River, S. F.	Skykomish	47 42 54	121 20 20	624,588	5,285,748
18	King	Snoqualmie River	Snoqualmie	47 31 15	121 46 23	592,364	5,263,576
19	King	Snoqualmie River, M. F.	Lake Philippa	47 31 33	121 35 07	606,485	5,264,385
20	Lewis	Chehalis River	Curtis	46 36 24	123 07 19	490,648	5,161,250
21	Lewis	Cispus River	Tower Rock	46 26 28	121 50 33	588,906	5,143,510
22	Lewis	Cowlitz River	Ohanapecosh Hot Springs	46 39 41	121 36 12	606,845	5,168,272
23	Lewis, Pierce	Nisqually River	Elbe	46 45 07	122 08 39	565,357	5,177,758
24	Mason	Satsop River, E. F.	Elma	47 05 02	123 28 54	463,438	5,214,395
25	Mason	Skokomish River	Skokomish Valley	47 18 57	123 14 13	482,086	5,240,086
26	Pacific	Willapa River	Raymond	46 41 12	123 44 54	442,765	5,170,407
27	Pierce	Puyallup River	Sumner	47 07 48	122 13 53	558,274	5,219,700
28	Pierce	White River	Greenwater	47 09 32	121 39 31	601,662	5,223,478
29	Skagit	Cascade River	Big Devils Peak	48 31 03	121 21 48	620,844	5,374,909
30	Skamania	Lewis River	Burnt Peak	46 04 57	121 55 20	583,321	5,103,574
31	Skamania	Wind River	Big Huckleberry Mtn.	45 45 40	121 49 48	590,977	5,067,980
32	Snohomish	Sauk River	Bedal	48 06 52	121 24 25	618,565	5,330,044
33	Snohomish	Skykomish River, N.F.	Monte Cristo	47 52 46	121 27 27	615,331	5,303,861
34	Snohomish	Stillaguamish R., N.F.	Mount Higgins	48 16 55	121 47 11	590,029	5,348,145
35	Snohomish	Stillaguamish R., S.F.	Verlot	48 05 57	121 49 41	587,247	5,327,767
36	Snohomish	Suiattle River	Downey Mountain	48 15 30	121 13 29	631,760	5,346,334
37	Whatcom	Baker River	Bacon Peak	48 44 24	121 33 51	605,550	5,399,344
38	Whatcom	Nooksak River, N.F.	Glacier	48 53 34	121 56 19	577,794	5,415,871
39	Whatcom	Nooksak River, S.F.	Acme	48 42 25	122 10 41	560,469	5,394,994
40	Whatcom	Skagit River	Hozomeen Mountain	49 00 01	121 04 39	640,605	5,429,068

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