
GEOLOGICAL SURVEY CIRCULAR 102



February 1951

INDEX OF SURFACE-WATER RECORDS

PART 12.—PACIFIC SLOPE BASINS IN WASHINGTON
AND UPPER COLUMBIA RIVER BASIN

TO SEPTEMBER 30, 1950

Prepared by Tacoma District

UNITED STATES DEPARTMENT OF THE INTERIOR
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WASHINGTON, D. C.

Free on application to the Director, Geological Survey, Washington 25, D. C.

INDEX OF SURFACE-WATER RECORDS

PART 12.—PACIFIC SLOPE BASINS IN WASHINGTON AND UPPER COLUMBIA RIVER BASIN

TO SEPTEMBER 30, 1950

EXPLANATION

The index lists the stream-flow and reservoir stations in the Pacific slope basins in Washington and upper Columbia River Basin for which records have been or are to be published for periods prior to September 30, 1950. The stations are listed in downstream order. Tributary streams are indicated by indention.

Station names are given in their most recently published forms. Parentheses around part of a station name indicate that the inclosed work or works were used in an earlier published name of the station or in a name under which records were published by some agency other than the Geological Survey.

The drainage areas, in square miles, are the latest figures published or otherwise available at this time. Drainage areas that were obviously inconsistent with other drainage areas on the same stream have been omitted. Some drainage areas not published by the Geological Survey are listed with an appropriate footnote stating the published source of the figure of drainage area.

Under "period of record" breaks of less than a 12-month period are not shown. A dash not followed immediately by a closing date shows that the station was in operation on September 30, 1950. The years given are calendar years. Periods of records published by agencies other than the Geological Survey are listed in parentheses only when they contain more detailed information or are for periods not reported in publications of the Geological Survey.

Records both of gage height and of discharge are listed for stream-flow stations, and records of gage height and of contents (or of change in contents) are listed for stations on reservoirs. Records of gage heights only and records consisting only of monthly figures either of stream flow or reservoir contents are designated by symbols and footnotes. For early years when daily discharges were not generally published by the Geological Survey, published daily gage heights and a published rating table were considered to be equivalent to daily discharges.

An alphabetical index of streams, canals, and reservoirs is given on pages 15 to 19.

	Drainage area (square miles)	Period of Record
PACIFIC SLOPE BASINS NORTH OF COLUMBIA RIVER		
Naselle River near Naselle, Wash.	55	1929-
North Nemah River near South Bend, Wash.	18.0	1946-
Willapa River at Lebam, Wash.	41.4	1948-
Willapa River near Willapa, Wash.	130	1947-
North River near Raymond, Wash.	219	1927-
Little North River near Cosmopolis, Wash.	20.3	1945-49.
Johns River near Markham, Wash.	18.9	1942-43.
Newskah Creek near Aberdeen, Wash.	8.0	1945-49.
Charlies Creek near Aberdeen, Wash.	5.7	1945-49.
Chehalis River near Pe Ell, Wash.	54.7	1944.
Chehalis River near Doty, Wash.	113	1939-
Chehalis River near Chehalis, Wash.	465	1929-31.
Chehalis River at Centralia, Wash.	-	1910-11.
Chehalis River near Grand Mound, Wash.	897	1928-
Chehalis River at South Elma, Wash.	1,420	1942-44; 1946-
Rock Creek near Pe Ell, Wash.	13.4	1944.
Elk Creek near Doty, Wash.	46.7	1942-
South Fork Chehalis River at Boistfort, Wash.	49.2	1942-
Halfway Creek near Boistfort, Wash.	13.4	1944.
Bunker Creek near Adna, Wash.	20.1	1944.
Stearns Creek near Napavine, Wash.	14.1	1945.
Stearns Creek near Adna, Wash.	27.1	1944.
Newaukum River near Onalaska, Wash.	40.8	1942-48.
Newaukum River near Chehalis, Wash.	159	1929-31; 1942-
North Fork Newaukum River near Forest, Wash.	32.5	1944.
Skookumchuck River near Centralia, Wash.	60	1929-31; 1939-
Hanaford Creek near Centralia, Wash.	13.2	1944.
Lincoln Creek near Rochester, Wash.	20.9	1942-
Scatter Creek near Grand Mound, Wash.	27.4	1944.
Black River at Little Rock, Wash.	64	1942-
Wadell Creek near Little Rock, Wash.	15.9	1944.
Garrod Creek near Oakville, Wash.	27.7	1944.
Rock Creek at Cedarville, Wash.	24.8	1942-
Cedar Creek near Oakville, Wash.	38.2	1944.
Porter Creek at Porter, Wash.	35.9	1942-48.
Cloquallum River (Creek) at Elma, Wash.	66	1942-
Wildcat Creek near Elma, Wash.	19.8	1944.
Satsop River near Satsop, Wash.	315	1929-
East Fork Satsop River near Matlock, Wash.	23.7	1945-47.
Bingham Creek near Matlock, Wash.	-	1946-48.
Middle Fork Satsop River near Satsop, Wash.	-	1942-43.
Wynoochee River at Oxbow, near Aberdeen, Wash.	65	1925-
Wynoochee River near Montesano, Wash.	105	1923-30.
Wynoochee River below Black Creek, near Montesano, Wash.	-	1942-49.
City of Aberdeen Wynoochee River intake near Montesano, Wash. ...	-	1942.
Wishkah River near Wishkah, Wash.	-	1942-43.
West Fork Hoquiam River near Hoquiam, Wash.	-	1942-43.
Humptulips River near Humptulips, Wash.	125	1933-35; 1942-
Quinault River at Quinault Lake, Wash.	264	1911-
Queets River near Clearwater, Wash.	454	1930-49.
Clearwater River near Clearwater, Wash.	140	1931-32; 1937-49.
Hoh River near Spruce, Wash.	193	1926-
Soleduck River (head of Quillayute River) near Fairholm, Wash.	84	1917-21; 1933-
Soleduck River at Snider ranger station, near Beaver, Wash.	b116	1921-28.
Soleduck River near Quillayute, Wash.	272	1897-1901.
Bogachiel River:		
Calawah (Kalawa) River near Forks, Wash.	b128	1897-1901.
Lake Crescent (head of Lyre River) at Piedmont, Wash.	49.1	1919-27.*
Lyre River at Piedmont, Wash.	49.5	1917-27.
Elwha River at McDonald Bridge, near Port Angeles, (McDonald), Wash..	262	1897-1901; 1918-
Elwha River near Port Angeles, Wash.	308	1911; 1912*.
Dungeness River at and near Sequim, Wash.	156	1897-98; 1923-30; 1937-
Dungeness River at Dungeness, Wash.	-	1898-1901.
Little Quilcene River near Quilcene, Wash.	27	1926-27.
Big Quilcene River near Quilcene, Wash.	59	1926-27.
Dosewallips River near Brinnon, Wash.	94	1930-49.
Dosewallips River at Brinnon, Wash.	130	1910-11; 1924-25; 1928-30.

b Revised.

* Gage heights or gage heights and discharge measurements only.

PACIFIC SLOPE BASINS NORTH OF COLUMBIA RIVER

	<u>Drainage area</u> <u>(square miles)</u>	<u>Period of Record</u>
Duckabush River near Brinnon (Duckabush), Wash.	66	1910-11; 1938-
Hamma Hamma River near Hoodspport, Wash.	84	1926-30.
Skokomish River, North Fork (head of Skokomish River), below Stair- case Rapids, near Hoodspport, Wash.	60	1924-
Skokomish River, North Fork, near Hoodspport, Wash.	92	1910-11*; 1913-30; (1911- 13**)a.
Skokomish River, North Fork, near Potlatch, Wash.	-	1944-
Skokomish River near Potlatch, Wash.	237	1943-
South Fork Skokomish River near Potlatch, Wash.	68	1923-32; 1946-
South Fork Skokomish River near Union, Wash.	81	1931-
Union River near Bremerton, Wash.	3.2	1945-
Union River near Belfair, Wash.	19.0	1947-
Mission Lake near Bremerton, Wash.	1.9	1945**
Mission Creek near Bremerton, Wash.	1.9	1945-
Mission Creek near Belfair, Wash.	4.4	1945-
Tahuya River (Tahuyeh Creek) near Bremerton, Wash.	6.1	1945-
Tahuya River (Tahuyeh Creek) near Belfair, Wash.	16.5	1945-
Tahuya River near Tahuya, Wash.	-	1947.
Gold Creek near Bremerton, Wash.	1.5	1945-
Panther Lake near Bremerton, Wash.8	1945**
Panther Creek near Bremerton, Wash.	1.0	1945-
Dewatto Creek near Dewatto, Wash.	-	1947-
Anderson Creek near Holley, Wash.	-	1947.
Stavis Creek near Seabeck, Wash.	-	1947.
Dogfish Creek near Poulsbo, Wash.	-	1947-
Clear Creek near Silverdale, Wash.	-	1947.
Kitsap Lake near Bremerton, Wash.	-	1947-50*.
Chico Creek near Bremerton, Wash.	-	1947-50.
Wildcat Lake near Bremerton, Wash.	-	1947-50*.
Blackjack Creek at Port Orchard, Wash.	-	1947-50.
Burley Creek at Burley, Wash.	10.0	1947-50.
Huge Creek near Wauna, Wash.	5.5	1947-
Deer Creek near Shelton, Wash.	13.6	1942-43; 1948-50.
Cranberry Creek near Shelton, Wash.	15.2	1942-43; 1948-
Johns Creek near Shelton, Wash.	20.1	1942-43; 1948-50.
Goldsborough Creek at Shelton, Wash.	44.8	1942-43.
Mill Creek at Shelton, Wash.	19.5	1942-43.
Deschutes River near Rainier, Wash.	89	1949-
Deschutes River near Olympia, Wash.	164	1945-
Spurgeon Creek near Olympia, Wash.	16.2	1949-
Woodward Creek near Olympia, Wash.	3.6	1949.
Woodland Creek near Olympia, Wash.	26.8	1949-
McAllister Springs near Olympia, Wash.	-	1949-
Nisqually River near Ashford, Wash.	66	1910-11; 1912-14*.
Nisqually River near National, Wash.	133	1942-
Nisqually River near Alder, Wash.	252	1931-44.
Alder Reservoir at Alder, Wash.	-	1944-
Nisqually River at and near La Grande, Wash.	296	1906-11; 1919-31; 1943-
Nisqually River near McKenna, Wash.	445	1941-
Nisqually River at McKenna, Wash.	514	1947-
Roundtop Creek:		
Mineral Creek near Mineral, Wash.	75	1942-
East Creek near Elbe, Wash.	10.7	1918-22; 1949-
Little Nisqually River near Alder, Wash.	27.2	1920-43.
Tacoma power conduit near La Grande, Wash.	-	1919-28.
Mashel River near La Grande, Wash.	79	1940-
Ohop Creek near Eatonville, Wash.	35.0	1927-32; 1941-
Lynch Creek near Eatonville, Wash.	16.0	1949.
Tanwax Creek near McKenna, Wash.	27.2	1944-
Muck Creek near Loveland, Wash.	19.2	1949.
Clover Creek near Tillicum, Wash.	55	1949-
Chambers Creek at Steilacoom Lake, near Steilacoom, Wash.	-	1938-40.
Chambers Creek below Leach Creek, near Steilacoom, Wash.	-	1937-40; 1943-
Puyallup River near Electron, Wash.	93	1908-26; 1944-49; (1920- 33**)a.
Puyallup River at Electron, Wash.	-	1946.

a In Water-Supply Bulletin No. 5 of the Department of Conservation and Development, State of Washington.

* Gage heights or gage heights and discharge measurements only.

** Only monthly figures of discharge.

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	Drainage area (square miles)	Period of Record
Puyallup River near Orting, Wash.	170	1931-
Puyallup River at Alderton, Wash.	438	1914-27; 1943-
Puyallup River at Puyallup, Wash.	948	1914-
Kapowsin Creek near Kapowsin, Wash.	23.0	1927-32; 1941-
Carbon River at Fairfax, Wash.	79	1910-12.
Carbon River near Fairfax, Wash.	81	1929-
South Prairie Creek at South Prairie, Wash.	78	1949-
Gale Creek at Wilkeson, Wash.	26.5	1949.
Voight Creek near Crocker, Wash.	21.8	1949.
Fennel Creek near McMillan, Wash.	13.8	1949.
White River (head of Stuck River) below forks, near Enumclaw, Wash.	-	1911-12.
White River at Greenwater, Wash.	216	1929-
Mud Mountain Reservoir near Buckley, Wash.	-	1944-
White River near Buckley, Wash.	403	1928-33; 1938-
White River at Buckley, Wash.	b434	1899-1901; 1902-03*; 1910-11; 1913-26; (1926-27**) ^a .
Stuck River near Sumner, Wash.	-	1945-
Greenwater River at Greenwater (near Enumclaw), Wash.	74	1911-12; 1929-
White River flume at Buckley, Wash.	-	1913-24.
Boise Creek near Enumclaw, Wash.	-	1945-46.
Clark Creek at Puyallup, Wash.	-	1946-48.
Wapato Creek near Tacoma, Wash.	6.0	1949.
Hylebos Creek near Tacoma, Wash.	11.8	1949-50.
Green River ^c (head of Duwamish River) near Lester, Wash.	104	1945-
Green River near Palmer, Wash.	231	1931-
Green River at Kanaskat, Wash.	-	1911.
Green River near Black Diamond, Wash.	286	1939-48.
Green River near Auburn, Wash.	386	1936-
Snow Creek near Lester, Wash.	11.9	1945-
Friday Creek near Lester, Wash.	4.6	1945-
Smay Creek near Lester, Wash.	11.3	1946-
Charley Creek near Eagle Gorge, Wash.	10.6	1946-
Bear Creek near Eagle Gorge, Wash.	4.1	1946-
Newaukum Creek near Enumclaw, Wash.	-	1945.
Newaukum Creek near Black Diamond, Wash.	24.4	1944-
Burns Creek near Black Diamond, Wash.	-	1945.
Big Soos Creek above Jenkins Creek, near Auburn, Wash.	20.9	1944-45.
Big Soos Creek near Auburn, Wash.	53.9	1944-
Little Soos Creek near Kent, Wash.	-	1945-46.
Jenkins Creek near Auburn, Wash.	13.7	1944-45.
Covington Creek near Auburn, Wash.	15.8	1944-45.
Lake Washington:		
North Fork Cedar River (head of Cedar River) near Lester, Wash. ...	8.8	1944-
Cedar River ^d below Bear Creek, near Cedar Falls, Wash.	25.4	1945-
Cedar River near Cedar Falls, Wash.	41.8	1945-
Cedar River at Cedar Lake, near North Bend, Wash.	75	1895-98**; 1898-99; 1901-02**; 1902-03; 1903-07**
Cedar River at Vaughn Bridge, near Cedar Lake, Wash.	74	1898-99.
Cedar River at Cedar Falls, Wash.	86	1914-
Cedar River near Landsberg, Wash.	138	1898-1901**; 1914-
Cedar River near Ravensdale, Wash.	141	1901-12.
Cedar River at Clifford Bridge, near Ravensdale, Wash.	141	1895-98.
Cedar River at Renton, Wash.	197	1901-3; 1906-7**; 1945-
South Fork Cedar River near Lester, Wash.	6.0	1944-
Rex River near Cedar Falls, Wash.	13.0	1945-
Taylor Creek near Selleck, Wash.	17.1	1945.
Rock Creek near Landsberg, Wash.	11.0	1945-48.
Rock Creek near Maple Valley, Wash.	12.6	1945-

^a In Water-Supply Bulletin No. 5 of the Department of Conservation and Development, State of Washington.^b Revised.^c Green River now flows to the sea through Duwamish River.^d Cedar River, formerly tributary to Duwamish River, now flows to the sea through Lake Washington and Lake Washington Canal.

* Gage heights or gage heights and discharge measurements only.

** Only monthly figures of discharge.

Lake Washington tributaries--Continued.	Drainage area (square miles)	Period of Record
May Creek near Renton, Wash.	13.0	1945-
Mercer Creek near Bellevue, Wash.	12.8	1945.
Juanita Creek near Kirkland, Wash.	5.6	1945.
Issaquah Creek (head of Sammamish River) near Issaquah, Wash.	22.1	1945-
Sammamish Lake near Redmond, Wash.	91	1939-*
Sammamish River near Redmond, Wash. (including flow of Bear Creek).	140	1939-
Sammamish River at Bothell, Wash.	199	1939-
East Fork Issaquah Creek at Issaquah, Wash.	8.8	1945.
Bear Creek near Redmond, Wash.	12.8	1945-49.
Bear Creek at Redmond, Wash.	47.0	1945-
Cottage Lake Creek near Redmond, Wash.	10.7	1945.
Evans Creek near Redmond, Wash.	10.9	1945.
Bear Creek at Woodinville, Wash.	14.1	1945.
North Creek near Bothell, Wash.	18.7	1945-
Swamp Creek near Bothell, Wash.	22.6	1945.
McAleer Creek near Bothell, Wash.	8.7	1945; 1946-49.
Thornton Creek near Seattle, Wash.	-	1945-46.
Powder Creek near Mukilteo, Wash.	-	1946.
Tye River (head of Snohomish River) near Skykomish, Wash.	80	1929-31; 1946.
Skykomish River, South Fork (continuation of Tye River) near Skykomish, Wash.	135	1929-31; 1946-
Skykomish River, South Fork, near Berlin, Wash.	-	1910-11*.
Skykomish River, South Fork, near Index, Wash.	355	1902-5; 1911-
Skykomish River near Gold Bar, Wash.	535	1928-
Skykomish River at Sultan, Wash.	-	1910-11.
Snohomish River at Snohomish, Wash. (high-water discharges only)....	1,700	1941-
Foss River near Skykomish, Wash.	55	1911.
East Fork Foss River near Skykomish, Wash.	21.8	1911*.
Beckler River near Skykomish, Wash.	95	1929-33; 1946-49.
Miller Creek at and near Miller River (Berlin), Wash.	44.2	1911-19; 1928-31; 1946.
West Fork Miller Creek near Miller River (Berlin), Wash.	12.9	1911.
North Fork Skykomish River at Index, Wash.	149	1910-22; 1929-38; 1946-48.
Troublesome Creek near Index, Wash.	10.4	1929-41.
Wallace River at Gold Bar, Wash.	19.8	1928-33; 1946-
Olney Creek near Gold Bar, Wash.	7.9	1946-
Olney Creek near Startup, Wash.	10.0	1922-26; 1929-33.
May Creek near Gold Bar, Wash.	4.3	1928-34; 1945-47.
Sultan River near Startup, Wash.	75	1934-
Sultan River near Sultan, Wash.	88	1911-26; 1929-31.
McCoy Creek near Sultan, Wash.	6.0	1946-
Elwell Creek near Sultan, Wash.	23.4	1946.
Woods Creek below Roesiger Creek, near Monroe, Wash.	18.2	1946.
Woods Creek near Monroe, Wash.	53	1946-
Roesiger Creek near Machias, Wash.	3.8	1946-48.
Carpenter Creek near Machias, Wash.	8.9	1946.
Snoqualmie River, Middle Fork (head of Snoqualmie River), near North Bend, Wash.	169	1907-26; 1929-32; 1945.
Snoqualmie River near Snoqualmie, Wash.	375	1898-1900; 1902-4; 1907-26**; 1926-27; 1927-32**.
Snoqualmie River near Tolt, Wash.	605	1928-
North Fork Snoqualmie River near Snoqualmie Falls, Wash.	65	1929-49.
North Fork Snoqualmie River at cable bridge, near North Bend, Wash.	80	1913-15.
North Fork Snoqualmie River near North Bend, Wash.	105 at mouth	1907-26; 1929-38.
South Fork Snoqualmie River near Garcia, Wash.	45	1910-15.
South Fork Snoqualmie River at North Bend, Wash.	83	1907-26; 1929-38; 1945-50.
Tokul Creek near Snoqualmie, Wash.	35.4	1907-14; 1929-31; 1945.
Raging River near Fall City, Wash.	31.2	1945-
Patterson Creek near Fall City, Wash.	16.5	1945; 1947-
Griffin Creek near Tolt, Wash.	16.8	1945-
Tolt River near Tolt, Wash.	80	1928-32; 1937-
Harris Creek near Tolt, Wash.	11.0	1945.
Ames Creek near Tolt, Wash.	2.9	1945.
Cherry Creek near Duvall, Wash.	19.4	1945-48.

* Gage heights or gage heights and discharge measurements only.

** Only monthly figures of discharge.

	Drainage area (square miles)	Period of Record
Snohomish River tributaries—Continued.		
Evans Creek near Snohomish, Wash.	3.0	1946.
French Creek near Monroe, Wash.	-	1946.
Pilchuck River below Worthy Creek, near Granite Falls, Wash.	40.0	1946.
Pilchuck River (Creek) near Granite Falls, Wash.	53	1911; 1943-
Little Pilchuck Creek near Lake Stevens, Wash.	-	1946-
Lake Stevens at Lake Stevens, Wash.	-	1946-50*.
Stevens Creek at Lake Stevens, Wash.	-	1946-50.
Dubuque Creek near Lake Stevens, Wash.	8.5	1946-
Panther Creek near Lake Stevens, Wash.	-	1946.
Wood Creek near Everett, Wash.	2.2	1946-48.
Allen Creek at Marysville, Wash.	-	1946.
Quilceda Creek near Marysville, Wash.	-	1946-
Stillaguamish River, South Fork (head of Stillaguamish River), at and near Silverton, Wash.	38.4	1910-17; 1929-32; 1950-
Stillaguamish River, South Fork, near Robe, Wash.	-	1902-3*.
Stillaguamish River, South Fork, near Granite Falls, Wash.	119	1928-
Stillaguamish River, South Fork, at Granite Falls, Wash.	182	1911; 1913-15.
Stillaguamish River, South Fork, above Jim Creek, near Arlington, Wash.	199	1936-
Stillaguamish River, South Fork, near Arlington, Wash.	254	1928-36.
Boardman Creek near Silverton, Wash.	-	1950-
Benson Creek near Granite Falls, Wash.	-	1950-
Canyon Creek near Granite Falls, Wash.	59	1911-13*; 1928-32; 1950-
Jim Creek near Oso, Wash.	10.0	1947-49.
Jim Creek near Arlington, Wash.	48.9	1937-
Cub Creek near Oso, Wash.	8.5	1949-
North Fork Stillaguamish River near Darrington, Wash.	-	1950-
North Fork Stillaguamish River near Arlington, Wash.	269	1928-
Squire Creek near Darrington, Wash.	-	1950-
Boulder River near Oso, Wash.	-	1950-
Deer Creek at Oso, Wash.	71	1917-30; 1950-
Armstrong Creek near Arlington, Wash.	-	1950-
Pilchuck Creek near Bryant, Wash.	51	1929-31; 1950-
Lake Creek:		
Cavanaugh Lake near Oso, Wash.	-	1950-
Portage Creek near Arlington, Wash.	-	1950-
Fish Creek near Arlington, Wash.	-	1950-
Church Creek near Stanwood, Wash.	-	1950-
Skagit River near Hope, British Columbia	370	1934-; (1915-22)*
Skagit River above Devils Creek, near Newhalem, Wash.	638	1940-45.
Skagit River near Newhalem (above Ruby Creek), Wash.	1,765	1930-40.
Skagit River below Ruby Creek, near Marblemount, Wash.	1,978	1919-30; (1908-19**; 1930-33**)*.
Boss (Ruby) Reservoir (on Skagit River) near Newhalem, Wash.	-	1940-**
Skagit River at Reflector Bar, near Marblemount, Wash.	1,100	1913-22; (1908-13**; 1922-33**)*.
Diablo Reservoir (on Skagit River) at Diablo, Wash.	-	1929-**
Skagit River at Newhalem (near Marblemount), Wash.	1,160	1908-14; 1920-; (1914-20**)*
Skagit River at Marblemount, Wash.	-	1946-
Skagit River near Concrete, Wash.	1,700	1924-
Skagit River near Sedro Woolley, Wash.	1,970	1908-24.
Skagit River near Mount Vernon, Wash.	1,060	1940-
Ross (Ruby) Reservoir (on Skagit River) near Newhalem, Wash.	-	1940-**
Lightning Creek near Newhalem, Wash.	129	1943-48.
Beaver Creek near Newhalem, Wash.	63	1940-48.
Ruby Creek below Panther Creek, near Newhalem, Wash.	-	1948-
Ruby Creek near Newhalem (Marblemount), Wash.	203	1919-20; 1930-49.
Granite Creek near Newhalem, Wash.	69	1946-48.
Thunder Creek near Newhalem, (above Colonial Creek), Wash.	98	1930-
Thunder Creek near Marblemount, Wash.	111	1919-30.

^a In Water-Supply Bulletin No. 5 of the Department of Conservation and Development, State of Washington.

^e In reports of Water Resources Division, Department of Resources and Development, Canada.

^f Of which 390 square miles is in Canada.

* Gage heights or gage heights and discharge measurements only.

** Only monthly figures of discharge or contents.

	<u>Drainage area</u> <u>(square miles)</u>	<u>Period of Record</u>
Skagit River tributaries --Continued.		
Stetattle Creek near Newhalem (Marblemount), Wash.	21.4	1913-15; 1933-
Goodell Creek near Newhalem, Wash.	40.3	1943-44.
Alma Creek near Marblemount, Wash.	8.3	1943.
Bacon Creek near Marblemount, Wash.	50	1943-50.
Diobsud Creek near Marblemount, Wash.	26.7	1943-44.
Cascade River near Marblemount, Wash.	-	1909-13.
Cascade River at Marblemount, Wash.	180	1928-
Marble Creek near Marblemount, Wash.	15.9	1943-44.
Jordan Creek at Marblemount, Wash.	13.2	1943-47.
Clark Creek at Marblemount, Wash.	-	1944-46.
Rocky Creek near Marblemount, Wash.	8.7	1943.
Illabot Creek near Marblemount, Wash.	42.4	1943-44.
Sauk River, North Fork (head of Sauk River), near Barlow Pass, Wash.	76	1917-20.
Sauk River above Whitechuck River, near Darrington, Wash.	152	1910*; 1917-22; 1928-
Sauk River above Clear Creek, near Darrington, Wash.	259	1910-13.
Sauk River at Darrington, Wash.	293	1914-26; 1928-32.
Sauk River near Sauk (Suitttle Crossing), Wash.	714	1910*; 1911-12; 1928-
South Fork Sauk River near Barlow Pass, Wash.	32.7	1917-21; 1928-31.
Whitechuck River near Darrington, Wash.	75	1910*; 1919-21.
Clear Creek near Darrington, Wash.	30	1910-11.
Suitttle River below Lime Creek, near Darrington, Wash.	213	1920-21.
Suitttle River near Mansford, Wash.	335	1938-49.
Big Creek near Mansford, Wash.	30.4	1943-46.
Jackman Creek near Concrete, Wash.	24.5	1943-47.
Baker Lake (on Baker River) near Concrete, Wash.	-	1910-15*.
Baker River below Anderson Creek, near Concrete, Wash.	184	1910-25; 1928-31.
Lake Shannon (on Baker River) at Concrete, Wash.	-	1925-**
Baker River at Concrete, Wash.	270	1910-15; 1943-
Finney Creek near Concrete, Wash.	55	1943-48.
Grandy Creek near Concrete, Wash.	17.9	1943-44.
O'Toole Creek near Hamilton, Wash.	6.2	1943-44.
Alder Creek near Hamilton, Wash.	8.8	1943-
Day Creek near Lyman, Wash.	38.1	1943-
Jones Creek near Lyman, Wash.	7.8	1943-44.
Gilligan Creek near Lyman, Wash.	6.5	1943.
Coal Creek near Sedro Woolley, Wash.	-	1947-
Hansen Creek near Sedro Woolley, Wash.	10.3	1943-45.
Nookachamps Creek near Mount Vernon, Wash.	23.9	1943-44.
East Fork Nookachamps Creek near Clear Lake, Wash.	19.2	1943-50.
Samish River near Burlington, Wash.	88	1943-
Friday Creek near Burlington, Wash.	37.1	1943-48.
Whatcom Lake (Whatcom Creek) near Bellingham, Wash.	-	1913-14*.
Whatcom Creek near Bellingham, Wash.	56	1910-12; 1913-14*; 1939-46.
Whatcom Creek below hatchery, near Bellingham, Wash.	56	1945-
Austin Creek near Bellingham, Wash.	-	1948.
Squalicum Creek at Bellingham, Wash.	-	1948-49.
Nooksack River at Excelsior, Wash.	96	1920-21.
Nooksack River above Cascade Creek, near Glacier, Wash.	105	1937-
Nooksack River (North Fork) near Glacier, Wash.	195	1910*; 1911; 1933-38.
Nooksack River at Deming, Wash.	580	1935-
Nooksack River near Deming, Wash.	-	1910-11*.
Nooksack River near Lynden, Wash.	636	1944-
Kendall Creek at Kendall, Wash.	-	1948-
Coal Creek near Kendall, Wash.	-	1948.
Middle Fork Nooksack River at ranger station, near Deming, Wash. ...	-	1910*.
Middle Fork Nooksack River near Deming, Wash.	b71	1910-11*; 1920-21; 1934-35.
Canyon Creek at Kulshan, Wash.	-	1948-
South Fork Nooksack River near Wickersham, Wash.	103	1933-
South Fork Nooksack River at Saxon Bridge, Wash.	129	1920-21; 1933-34.
Skookum Creek near Wickersham, Wash.	-	1948-
Anderson Creek at Goshen, Wash.	-	1948.
Fishtrap Creek at Lynden, Wash.	-	1948-
Bertrand Creek near Lynden, Wash.	-	1948.
Tennile Creek near Ferndale, Wash.	-	1948.
Dakota Creek near Blaine, Wash.	-	1948-
Frazier River:		
Sumas River near Sumas, Wash.	-	1948-
Saar Creek near Sumas, Wash.	-	1948.

^b Revised.

* Gage heights or gage heights and discharge measurements only.

** Only monthly figures of contents.

	Drainage area (square miles)	Period of Record
COLUMBIA RIVER BASIN		
Columbia River at Birchbank, British Columbia	34,000	1937-
Columbia River at Trail, British Columbia	34,000	1913-37.
Columbia River at international boundary	59,700	1938-
Columbia River at Kettle Falls, Wash.	64,500	1913-16**; 1916-41.
Franklin D. Roosevelt Lake (Columbia River Reservoir) at Grand Coulee Dam, Wash.	74,100	1938-
Columbia River at Grand Coulee Dam (near Nespelem), Wash.	74,100	1913-23**; 1923; 1924- 28**; 1928-
Columbia River at Wenatchee, Wash.	88,500	1910*; 1913-16.
Columbia River at Trinidad, Wash.	89,700	1930-
Columbia River at Vernita, Wash.	95,500	1917-30.
Columbia River near Julia, Wash.	-	1905*.
Columbia River at Hanford, Wash.	-	1910*.
Columbia River at Pasco, Wash.	-	1904-10*.
Kootenay River at Newgate, British Columbia	7,660	1930-
Kootenai River near Rexford, Mont.	8,420	1929-40.
Kootenai River at Libby, Mont.	10,240	1910-
Kootenai River at Leonia, Idaho	11,740	1928-
Kootenai River at Katka, Idaho	11,860	1928-33.
Kootenai River at Crossport, Idaho	-	1904*.
Kootenai River at Boom Camp, near Bonners Ferry, Idaho	-	1927-*; (1925-27*) ⁶
Kootenai River at (near) Bonners Ferry, Idaho	13,000	1904*; 1927-28*; 1928-; (1904-27*) ⁶
Kootenai River near Bonners Ferry, Idaho	13,000	1928-*
Kootenai River at Deep Creek, near Bonners Ferry, Idaho	-	1928-30*.
Kootenai River at Myrtle Creek, near Bonners Ferry, Idaho	-	1929-30*.
Kootenai River at Klockmann Ranch, near Bonners Ferry, Idaho	-	1928-*
Kootenai River at Spurling Ranch, near Copeland, Idaho	-	1928-30*.
Kootenai River at Des Voigne Ranch, near Copeland, Idaho	-	1929*.
Kootenai River at Krause Ranch, near Copeland, Idaho	-	1929-30*.
Kootenai River at Ashby Ranch, near Copeland, Idaho	-	1929*.
Kootenai River at and near Copeland, Idaho	13,400	1927-29*; 1929-; (1925-27*) ⁶
Kootenai River at Jerome Slough, near Copeland, Idaho	-	1929-30*.
Kootenai River at Lucas Creek, near Porthill, Idaho	-	1928-30*; 1932-35*; 1937-39*.
Kootenai River at (near) Porthill, Idaho	13,700	1904*; 1927-28*; 1928-; (1924-27*) ⁶
Kootenay Lake (Kootenay River) at Kuskonook, British Columbia	-	1936-*
Fortine Creek (apparent head of Tabacco River) near Trago, Mont. . . .	111	1947-
Grave Creek near Fortine, Mont.	-	1923-24.
Granite Creek near Libby, Mont.	-	1933; 1936-43.
Lake Creek at Troy, Mont.	211	1945-
Callahan Creek at Troy, Mont.	-	1911-16.
Yaak River near Troy, Mont.	559	1910-16.
Boulder Creek near Leonia, Idaho	53	1928-
Moyie River at Eastport, Idaho	570	1929-; (1915; 1916) ⁶
Moyie River at Snyder, Idaho	717	1911-16; 1919-23.
Moyie River at Eileen, Idaho	755	1925-
Cow Creek near Bonners Ferry, Idaho	-	1928-34.
Deep Creek at Moravia, Idaho	133	1928-
Snow Creek near Moravia, Idaho	19.5	1928-34.
Caribou Creek near Moravia, Idaho	14	1928-34.
Myrtle Creek near Bonners Ferry, Idaho	37	1928-34.
Ball Creek near Bonners Ferry, Idaho	27	1928-34.
Trout Creek near Copeland, Idaho	20	1928-34.
Mission Creek at Copeland, Idaho	31	1928-34.
Rock Creek near Copeland, Idaho	14.3	1928-34.
Brush Creek near Copeland, Idaho	7.2	1928-34.
Parker Creek near Copeland, Idaho	16.5	1928-34.
Long Canyon Creek near Porthill, Idaho	29	1928-
Smith Creek near Porthill, Idaho	70	1928-
Boundary Creek near Porthill, Idaho	97	1928-
Clark Fork (head of Pend Oreille River) above Missoula, Mont.	5,740	1929-
Clark Fork at Missoula, Mont.	-	1898-1907.
Clark Fork below Missoula, Mont.	8,690	1929-
Clark Fork at Tarkio, Mont.	9,630	1945-49.
Clark Fork at St. Regis, Mont.	10,500	1910-23; 1929-
Clark Fork near Plains, Mont.	19,900	1910-
Thompson Falls Reservoir at Thompson Falls, Mont.	-	1939-*
Clark Fork near Heron, Mont.	21,800	1928-

⁶ In reports of Water Resources Division, Department of Resources and Development, Canada.

⁸ In reports of United States Weather Bureau.

* Gage heights or gage heights and discharge measurements only.

** Only monthly figures of discharge or contents.

COLUMBIA RIVER BASIN

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	Drainage area (square miles)	Period of Record
Columbia River tributaries--Continued.		
Pend Oreille Lake (Clark Fork) at Hope, Idaho	22,900	1921-#; 1946-##
Pend Oreille Lake at Sandpoint, Idaho	22,900	1914-22.
Pend Oreille River (Clark Fork) at Priest River, Idaho	24,200	1903-5; 1921-41.
Pend Oreille River (Clark Fork) at Newport, Wash.	24,200	1903-21.
Pend Oreille River (Clark Fork) at Metaline Falls, Wash.	25,100	1908-10#; 1912-28.
Pend Oreille River (Clark Fork) below Z Canyon, near Metaline Falls, Wash.	25,200	1928-
Racetrack Creek near Anaconda, Mont.	-	1911-12; 1914-17*.
Little Blackfoot River and ditch near Elliston, Mont.	-	1910-15*.
Georgetown Lake near Southern Cross, Mont.	-	1939-##
Flint Creek near Southern Cross, Mont.	52.5	1940-
Flint Creek at Maxville, Mont.	208	1939-
Flint Creek near Maxville, Mont.	324	1946-49.
Flint Creek near Drummond, Mont.	492	1946-49.
Trout Creek above main canal near Philipsburg, Mont.	4.2	1946-49.
Trout Creek near Southern Cross, Mont.	34.8	1946-
Trout Creek near Philipsburg, Mont.	-	1939-43.
Spring Creek near Philipsburg, Mont.	-	1946-47.
Marshall Creek near Philipsburg, Mont.	-	1939-43.
Boulder Creek at Maxville, Mont.	71.3	1939-
Rock Creek, Middle Fork (head of Rock Creek), near Philipsburg, Mont.	-	1937-
Rock Creek near Quigley, Mont.	-	1910-12; 1922-27.
East Fork Rock Creek Reservoir near Philipsburg, Mont.	-	1939-##
East Fork Rock Creek near Philipsburg, Mont.	32	1935-43.
Ranch Creek near Quigley, Mont.	-	1922-27.
Blackfoot River near Helmsville, Mont.	481	1940-
Blackfoot River near Ovando, Mont.	1,280	1940-
Blackfoot River at Clearwater, Mont.	-	1921-23.
Blackfoot River near Bonner, Mont.	2,280	1898-1901; 1903-5; 1940-
Nevada Creek above reservoir, near Finn, Mont.	-	1939-
Nevada Creek Reservoir near Finn, Mont.	-	1939-##
Nevada Creek near Finn, Mont.	-	1934-39.
Nevada Creek near Helmsville, Mont.	165	1946-49.
Douglas Creek near Helmsville, Mont.	84.8	1946-47.
North Fork Blackfoot River near Ovando, Mont.	227	1921-23.
Clearwater River at Clearwater, Mont.	398	1921-23.
Rattlesnake Creek at Missoula, Mont.	73.8	1899-1900.
West Fork Bitterroot Reservoir near Conner, Mont.	-	1939-##
Bitterroot River, West Fork (head of Bitterroot River), near Conner, Mont.	322	1941-
Bitterroot River, West Fork, near Darby, Mont.	572	1910-17.
Bitterroot River near Darby, Mont.	1,050	1937-
Bitterroot River near Grantsdale, Mont.	1,550	1902-7.
Bitterroot River near Missoula, Mont.	3,260	1898-1901; 1903-4.
East Fork Bitterroot River at Conner (near Darby), Mont.	404	1910-16; 1937-
Como Lake near Darby, Mont.	-	1939-##
Rock Creek near Darby, Mont.	55.5	1946-
Rock Creek Canal near Darby, Mont.	-	1946-
Skalkaho Creek near Hamilton, Mont.	-	1920-24; 1948-
Blodgett Creek near Corvallis, Mont.	26.8	1946-
Blodgett Creek near Hamilton, Mont.	-	1938-43.
Willow Creek near Corvallis, Mont.	-	1920-24.
Willow Creek at Anfinson Ranch, near Corvallis, Mont.	-	1938-43.
Fred Burr Creek near Victor, Mont.	18.6	1946-
Bear Creek near Victor, Mont.	26.6	1938-
Kootenai Creek near Stevensville, Mont.	-	1948-
Burnt Fork Creek near Stevensville, Mont.	74	1920-24; 1938-
Lolo Creek near Lolo, Mont.	249	1910-16.
St. Regis River near St. Regis, Mont.	-	1910-17.
Flathead River at Flathead, British Columbia (near Trail Creek, Mont.)	450	1929-
Flathead River near Columbia Falls, Mont.	1,620	1910-17; 1929-
Flathead River at Columbia Falls, Mont.	4,440	1922-23; 1928-
Flathead River near Kalispell, Mont.	-	1928-45*.
Flathead River at Demersville, near Kalispell, Mont.	-	1909-12#; 1928-45*.

* Gage heights or gage heights and discharge measurements only

** Monthly figures of contents.

Columbia River tributaries--Continued.	Drainage area (square miles)	Period of Record
Pend Oreille River tributaries--Continued.		
Flathead River at Damon Ranch, near Kalispell, Mont.	-	1909-12*; 1928-45*.
Flathead River at Therriault Ferry, near Kalispell, Mont.	-	1934-45*.
Flathead River (at Keller Ranch) near Holt, Mont.	-	1909-12*; 1928-45*.
Flathead Lake near Holt, Mont.	-	1900*.
Flathead Lake at Somers, Mont.	6,990	1922-42*; 1943-
Flathead Lake at Polson, Mont.	6,990	1900-1*; 1908-26*; 1928-41*.
Flathead River near Polson, Mont.	7,030	1907-
Middle Fork Flathead River at Essex, Mont.	517	1939-
Middle Fork Flathead River at Belton, Mont.	-	1910-23; 1929-33; 1943-47.
Middle Fork Flathead River near West Glacier (Belton), Mont....	1,140	1939-
Bear Creek near Essex, Mont.	20.7	1946-
Skyland Creek near Essex, Mont.	8.09	1946-
Lake McDonald Outlet at Lake McDonald, Mont.	174	1912-14.
South Fork Flathead River near Hungry Horse, Mont.	959	1948-
South Fork Flathead River near Columbia Falls, Mont.	1,640	1910-16; 1923-
Spotted Bear River near Hungry Horse, Mont.	180	1948-
Twin Creek near Hungry Horse, Mont.	47.6	1948-
Lower Twin Creek near Hungry Horse, Mont.	22.2	1948-
Sullivan Creek near Hungry Horse, Mont.	72.7	1948-
Graves Creek near Hungry Horse, Mont.	33.0	1948-
Stillwater River near Whitefish, Mont.	529	1930-50.
Stillwater River near Kalispell, Mont.	-	1906-7; 1922; 1928-30.
Logan Creek at Tally Lake, near Whitefish, Mont.	-	1931-33; 1934; 1936-42; 1945-47.
Logan Creek near Whitefish, Mont.	-	1931.
Whitefish Creek near Kalispell, Mont.	173	1906; 1928-50.
Ashley Creek near Kila, Mont.	-	1916.
Ashley Creek near Kalispell, Mont.	203	1931-33; 1934-50.
Swan River near Bigfork, Mont.	662	1910-11; 1922-
Big Creek near Polson, Mont.	5.0	1917-32.
Little Bitterroot River near Marlon, Mont.	-	1910-16.
Little Bitterroot River near Hubbard, Mont.	-	1909-16.
Little Bitterroot River near Mirada (Dayton), Mont.	-	1908-9; 1916-17.
Camas Reservoirs in Little Bitterroot River Basin, Mont.	-	1940-**
Crow Creek near Ronan, Mont.	-	1906-17.
Crow Creek at Loseau's Ranch, near Ronan, Mont.	-	1911-16.
Mud Creek near Ronan, Mont.	-	1908-10.
Mission Valley Reservoirs, Flathead Lake to Jocko River, Mont..	-	1940-**
Mission Creek near St. Ignatius, Mont.	-	1906-17.
Dry Creek near St. Ignatius, Mont.	-	1908-16.
Post Creek at Fitzpatrick's Ranch, near Ronan, Mont.	-	1906-11.
Post Creek at Deschamps' Ranch, near Ronan, Mont.	-	1911.
Post Creek near St. Ignatius, Mont.	-	1911-17.
Jocko River, South Fork (head of Jocko River), near Jocko, Mont.	-	1912-16.
Jocko River near Jocko, Mont.	-	1908-16; 1918-19.
Jocko River at Ravalli, Mont.	-	1906-11.
Lower Jocko Lake near Arlee, Mont.	-	1940-**
Middle Fork Jocko River near Jocko, Mont.	-	1912-16.
North Fork Jocko River near Jocko, Mont.	-	1912-16.
Falls Creek near Jocko, Mont.	-	1912-16.
Big Knife Creek near Jocko, Mont.	-	1908-16.
Agency Creek near Jocko, Mont.	-	1908*; 1909-16.
Blodgett Creek near Jocko, Mont.	-	1909; 1910*.
Finley Creek near Jocko, Mont.	-	1908*; 1909-16.
East Finley Creek near Jocko, Mont.	-	1908*; 1909-16.
Indian ditch near Jocko, Mont.	-	1908*; 1909-11; 1912-16.
Valley Creek near Ravalli, Mont.	-	1908-11.
Revais Creek near Dixon, Mont.	-	1911-16; 1917-19.
Thompson River near Thompson Falls, Mont.	b638	1911-16.
Prospect Creek near Thompson Falls, Mont.	b145	1911-16.
Priest Lake (Priest River) at outlet, near Coolin, Idaho	572	1911-13*; 1928-*
Priest River at outlet of Priest Lake, near Coolin, Idaho	572	1911-18; 1919-
Priest River at Falk's Ranch, near Priest River, Idaho.....	792	1911-12.
Priest River near Priest River, Idaho	902	1930-
Priest River at Priest River, Idaho	904	1903-5; 1910-11; 1923; 1929- 1930.

^b Revised.

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** Only monthly figures of contents.

COLUMBIA RIVER BASIN

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Columbia River tributaries--Continued.	Drainage area (square miles)	Period of Record
Pend Oreille River tributaries--Continued.		
Callispell Creek near Dalkena, Wash.	-	1950-
Sullivan Lake (Sullivan Creek) near Metaline Falls, Wash.	-	1912-23*.
Sullivan Creek near Metaline Falls, Wash.	125	1912-24.
Salmo River near Waneta, British Columbia	500	1936-46.
Sheep Creek near Velvet, Wash.	171	1929-32.
Sheep Creek near Northport, Wash.	225	1929-42.
Kettle River near Ferry, Wash.	2,220	1928-
Kettle River at Curlew, Wash.	-	1911-12*.
Kettle River at Cascade, British Columbia	3,550	1930-34; (1916-30)**.
Kettle River near Laurier, Wash.	3,800	1929-
Kettle River at Boyds, Wash.	4,060	1913-15.
Myers Creek near Myncaster, British Columbia	80	1929; (1923-29)*.
Curlew Creek near Curlew, Wash.	93	1917-21.
Colville River at Blue Creek, Wash.	-	1922-24.
Colville River at Kettle Falls (Meyers Falls), Wash.	-	1922-
Loon Lake near Loon Lake, Wash.	-	1950-
Sheep Creek near Loon Lake, Wash.	-	1950-
Mill Creek near Colville, Wash.	82	1940-
Hall Creek at Inchellium, Wash.	163	1912-29.
Stranger Creek at Meteor, Wash.	54	1916-29.
Stranger Creek at Inchellium, Wash.	74	1914-17.
Coeur d'Alene River, (North Fork of Coeur d'Alene River)(head of Spokane River through Coeur d'Alene Lake), at Prichard, Idaho.	-	1911-14.
Coeur d'Alene River near Prichard, Idaho	596	1944-
Coeur d'Alene River (North Fork of Coeur d'Alene River) at Enaville, Idaho	895	1911-13; 1939-
Coeur d'Alene River near Cataldo, Idaho	1,220	1911-12; 1920-
Coeur d'Alene Lake at Coeur d'Alene, Idaho	3,750	1903-#; 1946-##
Spokane River at Post Falls, Idaho	3,880	1913-49.
Spokane River near Post Falls, Idaho	-	1949-
Spokane River at Greenacres, Wash.	-	1948-
Spokane River at Trent, Wash.	4,320	1911-13.
Spokane River below Trent Bridge, near Spokane, Wash.	-	1948-
Spokane River below Green Street, at Spokane, Wash.	-	1948-
Spokane River at Spokane, Wash.	4,350	1891-
Spokane River above Seven-Mile Bridge, near Spokane, Wash.	-	1948-
Spokane River below Nine-Mile Dam, near Spokane, Wash.	2,320	1948-
Spokane River at Long Lake, Wash.	6,100	1939-
Spokane River below Little Falls, near Long Lake, Wash.	6,380	1912-40.
North Fork Coeur d'Alene River (Little North Fork Coeur d'Alene River) near Enaville, Idaho	-	1911-12.
St. Joe River at Avery, Idaho	-	1911-17.
St. Joe River at Calder, Idaho	1,080	1920-
St. Joe River near Calder, Idaho	-	1911-12.
St. Maries River at Lotus, Idaho	437	1911-12; 1920-
Hayden Creek below North Fork, near Hayden Lake, Idaho	22.0	1948-
Hayden Creek near Hayden Lake, Idaho	26.0	1946-48.
Hayden Lake (Hayden Creek) at Hayden Lake, Idaho	-	1920-*
Hayden Lake Irrigation District diversion near Hayden Lake, Idaho	-	1946-
Rathdrum Prairie Canal at Huetter, Idaho	-	1946-
Spokane Valley Farms Co.'s canal at Post Falls, Idaho	-	1911-17; 1919-
Latah (Hangman) Creek at and near Tekoa, Wash.	-	1904; 1905*.
Latah Creek at Spokane, Wash.	-	1948-
North Fork Latah (Hangman) Creek near Tekoa, Wash.	-	1904; 1905*.
Little Spokane River at Scotia, Wash.	39.9	1948.
Little Spokane River at Elk, Wash.	80	1948-
Little Spokane River at Milan, Wash.	24.0	1948.
Little Spokane River at Chattaroy, Wash.	276	1948.
Little Spokane River at Dartford, Wash.	626	1929-32; 1946-
Little Spokane River near Dartford, Wash.	654	1948-
Little Spokane River near Spokane, Wash.	574	1903-5*; 1911-13*; 1913.
Dragoon Creek:		
Wethey Creek near Deep Park, Wash.	8.8	1948.
Deep Creek at Colbert, Wash.	31.1	1948.

* In Water-Supply Bulletin No. 5 of the Department of Conservation and Development, State of Washington.

° In reports of Water Resources Division, Department of Resources and Development, Canada.

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** Monthly figures of contents.

	Drainage area (square miles)	Period of Record
Columbia River tributaries--Continued.		
Sanpoil River at Keller, Wash.	971	1911-17.
West Fork Sanpoil River:		
Lost Creek near Aeneas, Wash.	-	1920-21.
Nespelem River at and near Nespelem, Wash.	122	1911-29.
Nespelem Canal at Nespelem, Wash.	-	1921-29.
Okanagan River at Okanagan Falls, British Columbia	2,550	1930-; (1915-30)**
Osoyoos Lake (Okanagan River) near Oroville, Wash.	3,250	1928-*
Okanagan River at Oroville, Wash.	-	1942-
Okanagan River near Tonasket, Wash.	7,250	1929-; (1925-29)**
Okanagan River at Okanogan, Wash.	7,740	1911-25.
Similkameen River near Nighthawk, Wash.	3,420	1928-
Similkameen River near Oroville, Wash.	3,450	1911-28.
Sinlahekin Creek at and above Blue Lake, near Loomis, Wash. ..	41.7	1920; 1924-30.
Sinlahekin Creek at twin bridges, near Loomis, Wash.	75.5	1921-23.
Sinlahekin Creek near Loomis, Wash.	88	1903*; 1904; 1905*.
Toats Coulee Creek near Loomis, Wash.	132	1920-26.
Oroville-Tonasket (West Okanogan Valley) Irrigation District Canal near Oroville, Wash.	-	1922-28.
Bonaparte Creek near Anglin, Wash.	110	1920-21.
Johnson Creek near Riverside, Wash.	-	1903-7.
Salmon Creek near Conconully, Wash.	121	1910-22.
Salmon Creek near Okanogan (Malott), Wash.	164	1903-12.
Methow River near Winthrop, Wash.	1,020	1912.
Methow River at Twisp, Wash.	1,330	1919-29; 1933-
Methow River at Pateros, Wash.	1,810	1903-20.
Chewack Creek below Boulder Creek, near Winthrop, Wash.	475	1920-21.
Chewack Creek at Winthrop, Wash.	544	1912-13.
Twisp River at Twisp, Wash.	-	1911-13*.
Stehekin River (head of Chelan River) at Stehekin, Wash. (in- cluding flow of Boulder Creek.).....	372	1910-15; 1927-
Lake Chelan at Lakeside, Wash.	-	1897-99.
Lake Chelan at Chelan, Wash.	950	1905*; 1910-
Chelan River at Chelan, Wash.	950	1903-
Railroad Creek at Lucerne, Wash.	64	1910-13; 1927-
Entiat River at Entiat, Wash.	419	1910-25.
Pine Canyon Creek near Waterville, Wash.	-	1945-47.
Wenatchee Lake (Wenatchee River) near Plain, Wash.	277	1932-*
Wenatchee River below Wenatchee Lake, Wash.	277	1932-42; 1946-
Wenatchee River at Plain (near Leavenworth), Wash.	591	1910-29; 1929-31**; 1931-; (1904-10)**
Wenatchee River at Peshastin, Wash.	1,000	1928-
Wenatchee River at Dryden and Cashmere, Wash.	1,200	1904-17.
Wenatchee River near Wenatchee, Wash.	1,310	1897.
White River near Chiwaukum, Wash.	150	1911-14.
Nason Creek near Nason, Wash.	89	1911.
Chiwawa River near Plain, Wash.	169	1936-49.
Chiwawa River near Leavenworth, Wash.	181	1911-14.
Phelps Creek near Plain, Wash.	16.8	1926-31.
Chiwaukum Creek near Chiwaukum, Wash.	49.6	1911.
Icicle Creek above Snow Creek, near Leavenworth, Wash.	193	1936-
Icicle Creek near Leavenworth, Wash.	211	1911-14.
Peshastin Creek at Blewett, Wash.	40	1911-12.
Peshastin Creek (below Ingalls Creek) near Leavenworth, Wash. ..	101	1911-12.
Wenatchee Valley Canal at Dryden, Wash.	-	1911-17(irrigation seasons).
Moses Coulee (Creek):		
Douglas Creek near Alstown, Wash.	-	1949-
Douglas Creek near Palisades, Wash.	-	1949-
Crab Creek at Irby, Wash.	-	1942-
Crab Creek at Wilson Creek, Wash.	-	1904*.
Crab Creek at Adrian, Wash.	-	1910-12.
Crab Creek near Moses Lake, Wash.	-	1942-
Crab Creek near Warden, Wash.	-	1909-12; 1942-
Crab Creek near Smyrna, Wash.	-	1942-
Park Creek near Coulee City, Wash.	-	1942-45.
Park Creek below Park Lake, near Coulee City, Wash.	-	1945-
Rocky Ford Creek near Ephrata, Wash.	-	1909-11; 1942-

* In Water-Supply Bulletin No. 5 of the Department of Conservation and Development, State of Washington.

e In reports of Water Resources Division, Department of Resources and Development, Canada.

* Gage heights or gage heights and discharge measurements only.

** Only monthly figures of discharge.

Columbia River tributaries--Continued.	Drainage area (square miles)	Period of Record
Crab Creek tributaries--Continued.		
Lakes in Crab Creek Basin:		
Moses Lake at Moses Lake (Neppel), Wash.	-	1909-14*; 1936-*
Park Lake near Coulee City, Wash.	-	1938-*
Blue Lake near Coulee City, Wash.	-	1938-*
Lenore Lake near Soap Lake, Wash.	-	1936*; 1938-*
Soap Lake near Soap Lake, Wash.	-	1936*; 1938-*
Keechelus Lake (Yakima River) near Martin, Wash.	-	1906-26; 1926-38†; 1938-**
Yakima River near Martin, Wash.	55	1903-
Yakima River at Easton, Wash.	184	1904; 1910-15.
Yakima River at Cle Elum, Wash.	500	1906-
Yakima River at Umtanum, Wash.	1,620	1906-
Yakima River at Selah Gap, near North Yakima, Wash.	2,150	1897; 1904; 1905*; 1911-12.
Yakima River at Union Gap, near Yakima, Wash.	3,550	1893-1919.
Yakima River near Parker (Wapato), Wash.	3,560	1908-21; 1921-31**; 1931-1911-12.
Yakima River near Mabton, Wash.	-	-
Yakima River near Prosser, Wash.	5,340	1904-6; 1913-22; 1922-26**; 1926-33.
Yakima River at Kiona, Wash.	5,520	1895-1915; 1933-
Yakima River near Richland, Wash.	5,970	1906-11(irrigation seasons).
Cabin Creek near Easton, Wash.	32	1909-10; 1911*.
Kachess Lake (Kachess River) near Easton, Wash.	-	1905-26; 1926-38†; 1938-**
Kachess River near Easton, Wash.	64	1903-
Big Creek near Cle Elum, Wash.	26.2	1909.
Cle Elum River, North Fork (head of Cle Elum River), at Galena, Wash.	37.9	1907*; 1911*.
Cle Elum Lake (Cle Elum River) near Roslyn, Wash.	-	1906-26; 1926-38†; 1938-**
Cle Elum River near Roslyn, Wash.	202	1903-
Teanaway River below forks, near Cle Elum, Wash.	174	1911-12.
Teanaway River near Cle Elum, Wash.	200	1909-14; 1946-
Swauk Creek near Cle Elum, Wash.	88	1909-11; 1912*.
Cascade Canal near Ellensburg (Thorp), Wash.	-	1905*; 1909**; 1910; 1911**.
West Kittitas Canal near Thorp, Wash.	-	1904; 1905*; 1909**;
		1910; 1911**.
Ellensburg Water Co.'s canal near Ellensburg, Wash.	-	1904; 1905*; 1909**;
		1910; 1911**.
Taneum Creek near Thorp, Wash.	76	1909-10; 1910-12*.
Manastash Creek near Ellensburg, Wash.	76	1909-14.
Wilson Creek at Thrall, Wash.	-	1911*.
Selah-Moxee Canal near Selah, Wash.	-	1904; 1905*; 1909**;
		1910; 1911**.
Wenas Creek near Selah, Wash.	192	1909; 1910-12*.
Naches River at Anderson's ranch, near Nile, Wash.	394	1909-14.
Naches River at Oak Flat, near Nile, Wash.	640	1904-17.
Naches River below Tieton River, near Naches, Wash.	943	1905; 1908-12; 1915-
Naches River near North Yakima, Wash.	1,120	1893-97; 1898-1912.
Bumping Lake (Bumping River) near Nile, Wash.	-	1909-26; 1926-38†; 1938-**
Bumping River (at Bumping Lake) near Nile, Wash.	68	1906; 1909-
American River near Nile, Wash.	79	1909-11; 1913-15; 1939-
Selah Valley Canal near Naches, Wash.	-	1904; 1905*; 1909**;
		1910-11.
Tieton River, North Fork (head of Tieton River), below Clear Creek, near Naches, Wash.	61	1914-15.
Tieton Reservoir (Tieton River) at Tieton Dam, near Naches, Wash.	187	1925-26; 1926-38†; 1938-**
Tieton River at Tieton Dam, near Naches (at McAllister Meadows, near Naches and at Rimrock), Wash.	187	1908-14; 1918-19; 1925-;
		(1919-20) ^a
Tieton River at headworks of Tieton Canal, near Naches, Wash.	240	1906-
Tieton River at Cobb's ranch, near Naches, Wash.	297	1902-13.
Tieton Canal near Naches, Wash.	-	1910-29.
Wapatox Canal near Naches, Wash.	-	1904; 1905*; 1909**;
		1910; 1911**.
Naches Canal Co.'s (Gleed) canal near Naches, Wash.	-	1904; 1905*; 1909**;
		1910; 1911**.
Yakima Valley (Congdon) Canal near Naches, Wash.	-	1904; 1905*; 1909**;
		1910; 1911**.
Naches-Cowiche Canal near North Yakima, Wash.	-	1904; 1905*; 1909**;
		1910; 1911**.
North Yakima power canal near North Yakima, Wash.	-	1904; 1905*; 1910.

^a In Water-Supply Bulletin No. 5 of the Department of Conservation and Development, State of Washington.

* Gage heights or gage heights and discharge measurements only.

** Only monthly figures of discharge or contents.

† Monthly change in contents only.

Columbia River tributaries—Continued. Yakima River tributaries—Continued. Naches River tributaries—Continued. North Yakima power canal tributaries.	Drainage area (square miles)	Period of Record
Shohanno Canal near North Yakima, Wash.	-	1904; 1905*; 1909**; 1910; 1911**.
North Yakima power waste at North Yakima, Wash.	-	1909-12.
North Yakima Milling Co. waste at North Yakima, Wash.	-	1909-12.
Naches Avenue Union Canal at North Yakima, Wash.	-	1910.
Old Union Canal near North Yakima, Wash.	-	1904; 1905*; 1909**; 1910; 1911**.
Moxee Co.'s canals near North Yakima, Wash.	-	1904; 1905*; 1909**; 1910; 1911**.
Fowler Canal near North Yakima, Wash.	-	1904; 1905*; 1909**; 1910; 1911**.
Ahtanum Creek, North Fork (head of Ahtanum Creek), near Tampico, Wash.	69	1907-24; 1931-
Ahtanum Creek at The Narrows, near Tampico, Wash.	119	1908-13.
Ahtanum Creek near Yakima, Wash.	-	1904; 1907-12.
South Fork Ahtanum Creek at Conrad Ranch, near Tampico, Wash. ..	24.5	1915-24; 1931-
South Fork Ahtanum Creek near Tampico, Wash.	26	1907-14.
New Reservation Canal at and near Parker (Yakima), Wash.	-	1904-21.
Old Reservation Canal at and near Parker (Wapato), Wash.	-	1904; 1905*; 1906-21.
Sunnyside Canal near Parker (Wapato), Wash.	-	1904; 1905*; 1906-21.
Toppenish Creek near Fort Simcoe, Wash.	124	1909-24.
Toppenish Creek near White Swan (Wapato), Wash.	360	1909-11; 1912*.
Toppenish Creek at railway bridge, near Toppenish, Wash.	-	1894-6.
Toppenish Creek near Toppenish, Wash.	-	1908-9.
Toppenish Creek at Alfalfa, Wash.	-	1909-12.
Simcoe Creek (above and below Spring Creek) near Fort Simcoe, Wash.	77	1909-23.
Reservation drain at Alfalfa, Wash.	-	1912-23.
Satus Creek near Toppenish, Wash.	254	1908-13.
Satus Creek below Dry Creek, near Toppenish, Wash.	427	1913-24.
Kiona Canal near Kiona, Wash.	-	1904; 1905*; 1908-9*; 1910; 1911**.
Kennewick Canal near Richland (Kennewick), Wash.	-	1904; 1905*; 1910; 1911**.
Lower Yakima Canal near Kiona, Wash.	-	1905*; 1910; 1911**.

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ALPHABETICAL LIST OF STREAMS AND RESERVOIRS

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Ahtanum Creek, Wash.	14	Burnt Fork Creek, Mont.	9
Ahtanum Creek, North Fork, Wash.	14	Cabin Creek, Wash.	13
Ahtanum Creek, South Fork, Wash.	14	Calawah River, Wash.	2
Alder Creek, Wash.	7	Calispell Creek, Wash.	11
Alder Reservoir, Wash.	3	Callahan Creek, Mont.	8
Allen Creek, Wash.	6	Camas Reservoirs, Mont.	10
Alma Creek, Wash.	7	Canyon Creek, Wash. (tributary to Middle Fork Nooksack River)	7
American River, Wash.	13	Canyon Creek, Wash. (tributary to South Fork Stillaguamish River)	6
Ames Creek, Wash.	5	Carbon River, Wash.	4
Anderson Creek, Wash. (tributary to Nooksack River)	7	Caribou Creek, Idaho	8
Anderson Creek, Wash. (tributary to Puget Sound) .	3	Carpenter Creek, Wash.	5
Armstrong Creek, Wash.	6	Cascade Canal, Wash.	13
Ashley Creek, Mont.	10	Cascade River, Wash.	7
Austin Creek, Wash.	7	Cavanaugh Lake, Wash.	6
Bacon Creek, Wash.	7	Cedar River, Wash. (tributary to Chehalis River)	2
Baker Lake, Wash.	7	Cedar River, Wash. (tributary to Lake Washington)	4
Baker River, Wash.	7	Cedar River, North Fork, Wash. (tributary to Lake Washington)	4
Ball Creek, Idaho	8	Cedar River, South Fork, Wash. (tributary to Cedar River)	4
Bear Creek, Mont. (tributary to Bitterroot River)	9	Chambers Creek, Wash.	3
Bear Creek, Mont. (tributary to Middle Fork Flathead River)	10	Charley Creek, Wash.	4
Bear Creek, Wash. (tributary to Green River)	4	Charlies Creek, Wash.	2
Bear Creek, Wash. (tributary to Sammamish River)	5	Chehalis River, Wash.	2
Beaver Creek, Wash.	6	Chehalis River, South Fork, Wash.	2
Beckler River, Wash.	5	Chelan River, Wash.	12
Benson Creek, Wash.	6	Cherry Creek, Wash.	5
Bertrand Creek, Wash.	7	Chewack Creek, Wash.	12
Big Creek, Mont. (tributary to Flathead River) ...	10	Chico Creek, Wash.	3
Big Creek, Wash. (tributary to Suiattle River)....	7	Chiwaukum Creek, Wash.	12
Big Creek, Wash. (tributary to Yakima River)	13	Chiwawa River, Wash.	12
Big Knife Creek, Mont.	10	Church Creek, Wash.	6
Big Quilcene River, Wash.	2	City of Aberdeen Wynooches River intake	2
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Bingham Creek, Wash.	2	Clark Creek, Wash. (tributary to Puyallup River)	4
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Bitterroot River, Little, Mont.	10	Clearwater River, Mont. (tributary to Blackfoot River)	9
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Black River, Wash.	2	Cle Elum Lake, Wash.	13
Blackjack Creek, Wash.	3	Cle Elum River, Wash.	13
Blackfoot River, Mont.	9	Cle Elum River, North Fork, Wash.	13
Blackfoot River and ditch, Little, Mont.	9	Cloquallum Creek, Wash.	2
Blackfoot River, North Fork, Mont.	9	Clover Creek, Wash.	3
Blodgett Creek, Mont. (tributary to Agency Creek). .	10	Coal Creek, Wash. (tributary to Nooksack River)	7
Blodgett Creek, Mont. (tributary to Bitterroot River)	9	Coal Creek, Wash. (tributary to Skagit River) .	7
Blue Lake, Wash.	13	Coeur d'Alene Lake, Idaho	11
Boardman Creek, Wash.	6	Coeur d'Alene River, Idaho	11
Boise Creek, Wash.	4	Coeur d'Alene River, North Fork, Idaho	11
Bonaparte Creek, Wash.	12	Columbia River, British Columbia, Wash.	8
Boulder Creek, Idaho (tributary to Kootenai River)	8	Colville River, Wash.	11
Boulder Creek, Mont. (tributary to Flint Creek) ..	9	Como Lake, Mont.	9
Boulder River, Wash.	6	Cottage Lake Creek, Wash.	5
Boundary Creek, Idaho	8	Covington Creek, Wash.	4
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Bumping River, Wash.	13		
Bunker Creek, Wash.	2		
Burley Creek, Wash.	3		

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Cranberry Creek, Wash.	3	Green River, Wash.	4
Crow Creek, Mont.	10	Greenwater River, Wash.	4
Cub Creek, Wash.	6	Griffin Creek, Wash.	5
Curlwe Creek, Wash.	11		
		Halfway Creek, Wash.	2
Dakota Creek, Wash.	7	Hall Creek, Wash.	11
Day Creek, Wash.	7	Hamma Hamma River, Wash.	3
Deep Creek, Idaho	8	Hanaford Creek, Wash.	2
Deep Creek, Wash.	11	Hansen Creek, Wash.	7
Deer Creek, Wash. (tributary to Puget Sound)	3	Harris Creek, Wash.	5
Deer Creek, Wash. (tributary to North Fork Stillaguamish River)	6	Hayden Creek, Idaho	11
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Dry Creek, Mont.	10	Icicle Creek, Wash.	12
Dubuque Creek, Wash.	6	Illabot Creek, Wash.	7
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Elwell Creek, Wash.	5	Jocko River, Middle Fork, Mont.	10
Elwha River, Wash.	2	Jocko River, North Fork, Mont.	10
Entiat River, Wash.	12	Jocko River, South Fork, Mont.	10
Evans Creek, Wash. (tributary to Bear Creek)	5	Johns Creek, Wash.	3
Evans Creek, Wash. (tributary to Snohomish River)	6	Johns River, Wash.	2
		Johnson Creek, Wash.	12
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Fennel Creek, Wash.	4	Jordan Creek, Wash.	7
Finley Creek, Mont.	10	Juanita Creek, Wash.	5
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Flint Creek, Mont.	9	Kiona Canal, Wash.	14
Fortine Creek, Mont.	8	Kitsap Lake, Wash.	3
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Satus Creek, Wash.	14	Tanwax Creek, Wash.	3
Sauk River, Wash.	7	Taylor Creek, Wash.	4
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Snow Creek, Idaho	8	Wenatchee River, Wash.	12
Snow Creek, Wash.	4	Wenatchee Valley Canal, Wash.	12
Soap Lake, Wash.	13	West Fork or Branch. <u>See</u> name of main stream.	
Soleduck River, Wash.	2	West Kittitas Canal, Wash.	13
Soos Creek, Big, Wash.	4	Wethey Creek, Wash.	11
Soos Creek, Little, Wash.	4	Whatcom Creek, Wash.	7
South Fork or Branch. <u>See</u> name of main stream.		Whatcom Lake, Wash.	7
South Prairie Creek, Wash.	4	White River flume, Wash.	4
Spokane River, Idaho, Wash.	11	White River, Wash. (tributary to Puyallup River)	4
Spokane River, Little, Wash.	11	White River, Wash. (tributary to Wenatchee River)	12
Spokane Valley Farms Co.'s canal, Idaho	11	Whitechuck River, Wash.	7
Spotted Bear River, Mont.	10	Whitefish Creek, Mont.	10
Spring Creek, Mont.	9	Wildcat Creek, Wash.	2
Spurgeon Creek, Wash.	3	Wildcat Lake, Wash.	3
Squalicum Creek, Wash.	7	Willapa River, Wash.	2
Squire Creek, Wash.	6		
Stavis Creek, Wash.	3		
Stearns Creek, Wash.	2		
Stehekin River, Wash.	12		
Stetattle Creek, Wash.	7		
Stevens Creek, Wash.	6		

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Willow Creek, Mont.	9	Wynoochee River, Wash.	2
Wilson Creek, Wash.	13	Yaak River, Mont.	8
Wishkah River, Wash.	2	Yakima Milling Co. waste, North, Wash.	14
Wood Creek, Wash.	6	Yakima power canal, North, Wash.	13
Woodland Creek, Wash.	3	Yakima power waste, North, Wash.	14
Woods Creek, Wash.	5	Yakima River, Wash.	13
Woodward Creek, Wash.	3	Yakima Valley Canal, Wash.	13

Interior--Duplicating Section, Washington, D. C.

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1. The first part of the book is devoted to a general survey of the history of the subject. It begins with a brief account of the early attempts to explain the phenomena of life, and then proceeds to a more detailed consideration of the various theories which have been advanced from time to time. The author's own views are clearly stated throughout, and are supported by a wealth of facts and illustrations.

2. The second part of the book is devoted to a detailed examination of the various theories which have been advanced. It begins with a consideration of the theory of spontaneous generation, and then proceeds to a more detailed examination of the theory of evolution.

3. The third part of the book is devoted to a detailed examination of the various theories which have been advanced. It begins with a consideration of the theory of spontaneous generation, and then proceeds to a more detailed examination of the theory of evolution.

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