



SKAGIT RIVER REPORTS/STUDIES/DOCUMENTS ON FLOODING AND FLOOD PROJECTS

As Compiled by Larry J. Kunzler 1/24/99 in cooperation with the Corps of Engineers, Seattle District and as appended May 23, 2008

REPORT #	DATE	TITLE
1.	11/8/1890 PE 12/4/1890 HD	NOOKSACK, SKAGIT AND SNOHOMISH RIVERS, Preliminary Examination (PE) by Captain Symons, Corps of Engineers {published as House Document #38, 51 st Congress, 2 nd Session}
2.	12/11/1897 S 1/8/1898 HD	<u>SURVEY OF SKAGIT RIVER FROM ITS MOUTH TO SEDRO, WASH.</u> , Survey (S) by Capt. Harry Taylor, Corps of Engineers {published as House Document #204, 55 th Congress, 2 nd Session}
3.	11/5/10 PE 2/29/12 S 8/15/12 HD	SKAGIT RIVER, WASH., FROM SEDRO WOOLLEY TO BAKER, PE by Capt. Authur Williams, Corps of Engineers, S by Major J.B. Cavanaugh, Corps of Engineers {published as House Document #909, 62 nd Congress, 2 nd Session}
4.	12/6/12 PE 1/26/14 S 4/30/14 HD	SKAGIT RIVER, WASH., PE by Major J. B. Cavanaugh, Corps of Engineers, S by same {published as House Document #935, 63 rd Congress, 2 nd Session}
5.	1915	PROFILE SURVEYS IN 1915 IN SKAGIT RIVER BASIN, U.S.G.S. Water Supply Paper 419, W.H. Herron, Acting Chief Geographer
6.	7/1/18	<u>SKAGIT RIVER FLOOD REPORT</u> , by James E. Stewart, Hydraulic Engineer, U.S.G.S., Tacoma, Washington <u>[Retyped version here]</u>
7.	8/12/18	<u>APPENDIX TO SKAGIT RIVER FLOOD REPORT</u> , by James E. Stewart, Hydraulic Engineer, U.S.G.S., Tacoma, Washington
8.	10/10/19 RE 1/12/20 HD	SKAGIT RIVER, WASH., Reexamination (RE) of House Document #935 by Lt. Col. J.A. Woodruff, Corps of Engineers {published as House Document #591, 66 th Congress, 2 nd Session}
9.	8/26/22	<u>PROPOSED FLOOD CONTROL SKAGIT RIVER</u> , by Robert Herzog, Great Northern Railway Company
10.	10/23	<u>STAGE AND VOLUME OF PAST FLOODS IN SKAGIT VALLEY AND ADVISABLE PROTECTIVE MEASURES PRIOR TO THE CONSTRUCTION OF PERMANENT FLOOD CONTROLLING WORKS</u> , by James E. Stewart, Hydraulic Engineer, U.S.G.S., Tacoma, Washington
11.	1/31/25 PE 12/12/25 HD	SKAGIT RIVER, WASH., PE by Col. W.J. Barden, Corps of Engineers {published as House Document #125, 69 th Congress, 1 st Session}



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12.	2/8/28 PE 5/19/28 HD	SKAGIT RIVER, WASH., PE by Major Jno. S. Butler, Corps of Engineers {published as House Document #311, 70 th Congress, 1 st Session}
13.	5/18/28	MEMORANDUM on COMPREHENSIVE SURVEY—CONFERENCE WITH MR. PARKER re potential dam sites in the Skagit Basin and river gages throughout the Northwest, author unknown
14.	1929	<u>Selected pages of USGS 1929 Water Supply Paper</u>
15.	3/17/32	SKAGIT RIVER FLOOD CONTROL RIVER ENLARGEMENT AND DIKES, by Charles B. Smith
16.	5/18/32	SKAGIT RIVER, WASH., A GENERAL PLAN FOR THE PURPOSES OF NAVIGATION AND EFFICIENT DEVELOPMENT OF ITS WATER POWER, THE CONTROL OF FLOODS, AND THE NEEDS OF IRRIGATION, by Lt. Col. C.L. Sturtevant, Corps of Engineers {published as House Document #187, 73 rd Congress, 2 nd Session}, NOTE: In this report the Corps did not recommend construction of Avon Bypass but Congress authorized that diversion project, including levees from Burlington to Sedro Woolley, in the 1936 Flood Control Act. The project was deauthorized in 1990.
17.	8/26/35	REPORT AND FINDINGS SKAGIT FLOOD CONTROL DISTRICT BOUNDARY COMMISSION, Commission Minutes
18.	3/29/37 PE	SKAGIT RIVER AND TRIBUTARIES, WASHINGTON, PE by Lt. Col. H.J. Wild, Corps of Engineers
19.	7/30/40 S	SKAGIT RIVER AND TRIBUTARIES, WASHINGTON, S by Col. B.C. Dunn, Corps of Engineers
20.	12/1/40	FLOOD CONTROL ECONOMIC JUSTIFICATION STUDY, AVON BY-PASS AND EXTENSION OF DIKES TO SEDRO WOOLLEY, APPRAISAL OF DAMAGES 1815 H.W. AND 1921 H.W., SKAGIT RIVER WEST OF AND INCLUDING SEDRO WOOLLEY AND SAMISH RIVER DELTA, Note: Contains elevation maps of Burlington & Clear Lake
21.	6/15/42	APPENDIX B, to report on Survey for Flood Control of SKAGIT RIVER AND TRIBUTARIES, WASHINGTON, re W.P.A. FLOOD CONTROL WORK, dated 7/30/40, Corps of Engineers
22.	1/6/50	REPORT ON SKAGIT RIVER FLOOD, 27-29 NOVEMBER 1949, by Col. Z.C. Itschener, Corps of Engineers



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REPORT #	DATE	TITLE
23.	2/1/50	<u>REPORT ON DERIVATION OF STANDARD PROJECT FLOOD for SKAGIT RIVER NEAR SEDRO WOOLLEY, WASHINGTON</u> , Corps of Engineers
24.	7/1/50	FLOOD CONTROL ECONOMIC JUSTIFICATION STUDY SKAGIT RIVER, Corps of Engineers
25.	2/21/52 S	SKAGIT RIVER AND TRIBUTARIES, WASHINGTON, S by Col. John Buehler, Corps of Engineers {not published, transmitted to Congress 11/28/56}
26.	2/21/52	APPENDIX to SKAGIT RIVER AND TRIBUTARIES, WASHINGTON, S (Appendix to #24), Corps of Engineers
27.	1/1/61	<u>FLOODS IN THE SKAGIT RIVER BASIN, WASHINGTON, GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1527</u> , James E. Stewart and G. Lawrence Bodhaine
28.	2/8/61	PLAN OF SURVEY, SKAGIT RIVER FLOOD CONTROL STUDY, Corps of Engineers
29.	2/8/61	<u>REPORT ON SKAGIT RIVER FLOOD CONTROL – HEARING WITH THE CORPS OF ARMY ENGINEERS</u> , Skagit County Dike District 12, NOTE: Includes several comment letters submitted at public hearing.
30.	1/18/63 PR	SKAGIT RIVER, WASHINGTON (NAVIGATION), Preliminary Report (PR) on dredging barge channel to Concrete, by Col. Ernst Perry, Corps of Engineers
31.	11/22/63	<u>INFORMATION BULLETIN FOR PUBLIC HEARING, SKAGIT RIVER, WASHINGTON, PLANS FOR FLOOD CONTROL AND RECREATION IMPROVEMENTS INCLUDING FISHERIES AS ADDED PURPOSES FOR AVON BYPASS</u> , Corps of Engineers
32.	11/63 RR 9/25/64 SUP	AVON BYPASS, SKAGIT RIVER, WASHINGTON, REACTIVATION REPORT (RR), with SUPPLEMENT (SUP) TO NPS REACTIVATION REPORT OF NOVEMBER 1963, Corps of Engineers
33.	5/20/64	<u>INTERIM REPORT OF BUREAU OF SPORT FISHERIES AND WILDLIFE</u> , U.S. Fish & Wildlife Service {Appendix D in #31}
34.	3/1/65	SKAGIT RIVER BASIN, WASHINGTON, FLOOD CONTROL AND OTHER IMPROVEMENTS by Colonel C.C. Holbrook, Corps of Engineers



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REPORT #	DATE	TITLE
35.	3/1/66	<u>SUPPLEMENT TO REVIEW REPORT ON FLOOD CONTROL AND OTHER IMPROVEMENTS ON SKAGIT RIVER, WASHINGTON,</u> Corps of Engineers
36.	7/1/66	FLOOD PLAIN INFORMATION STUDY, SKAGIT RIVER BASIN, WASHINGTON, SUMMARY REPORT, Corps of Engineers
37.	8/30/66	AVON BYPASS, SKAGIT RIVER, WASHINGTON, DESIGN MEMORANDUM NO. 1, SITE SELECTION, Corps of Engineers
38.	3/1/65 IRR 8/30/66 HD	SKAGIT RIVER, WASH., Interim Review Report (IRR) by Colonel C.C. Holbrook, Corps of Engineers {published as House Document #483, 89 th Congress, 2 nd Session} In the 1966 Flood Control Act, Congress authorized the projects recommended in this report: levee & channel improvements from Burlington to the mouths and addition of recreation (resident trout fishery) as a project purpose to the Avon Bypass project. These projects were deauthorized in 1995.
39.	4/1/66 (2/10/66)	FLOOD PLAIN INFORMATION STUDY, SKAGIT RIVER BASIN, WASHINGTON, TECHNICAL REPORT, Corps of Engineers
40.	1967??	WATERSHED INVESTIGATION REPORTS ON GAGES SLOUGH, Soil Conservation Service, Forest Service & USDA, {prepared to support Puget Sound and Adjacent Waters Comprehensive Study}
41.	6/1/71	COMPREHENSIVE STUDY OF WATER AND RELATED LAND RESOURCES, PUGET SOUND AND ADJACENT WATERS, STATE OF WASHINGTON, Summary Report and 15 Appendices bound separately, by Puget Sound Task Force of the Pacific Northwest River Basins Commission, NOTE: This report recommended: 100,000 ac. Ft. of flood control storage @ Upper Baker and 134,000 ac. Ft. @ Lower Sauk, Avon Bypass @ 60,000 cfs. with the 1966 levee & channel improvements project @ 120,000 cfs., a Nookachamps Creek levee, 100-year levees for Sedro Woolley and Hamilton, and flood plain management & warning measures. If the Skagit system were to be included in the Wild and Scenic Rivers system, the Lower Sauk dam would be deleted from this plan and Avon Bypass increased to 100,000 cfs. Report was sent to Congress in 1974.
42.	3/1/75	PUBLIC BROCHURE, ALTERNATIVES AND THEIR PROS AND CONS, ADDITIONAL FLOOD CONTROL AT UPPER BAKER, Draft #4 by Frank Urabeck, Corps of Engineers



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43.	6/10/75 AR 5/9/77 HD	UPPER BAKER PROJECT, SKAGIT RIVER BASIN, WASHINGTON, Puget Sound and Adjacent Waters Authorization Report (AR) including Final Environmental Impact Statement, by Colonel Raymond J. Eineigl, Corps of Engineers {published as House Document #149, 95 th Congress, 1 st Session}, NOTE: This report recommended 74,000 ac. ft. (58,000 new) of flood control storage in Upper Baker Dam with compensation to the dam owner for lost power revenues from the Federal system. Project was authorized by Congress in 1977 and the flood control storage was first available during the 1977-1978 flood season.
44.	1/1/76	POST FLOOD REPORT, SKAGIT RIVER BASIN, December 1975 Flood, by Ernie Sabo, Corps of Engineers
45.	3/1/76	SKAGIT RIVER FLOODING, AN OVERVIEW, Skagit County Rural Development Committee
46.	4/22/76	ENVIRONMENTAL EVALUATION FOR SKAGIT RIVER BASIN EMERGENCY LEVEE REPAIRS, SKAGIT COUNTY, WASHINGTON, Corps of Engineers
47.	6/1/77	REPORT ON FLOODS OF DECEMBER 1975 AND JANUARY 1976, PUGET SOUND, WASHINGTON COASTAL, AND EASTERN SLOPE CASCADE RIVER BASINS, WASHINGTON, Corps of Engineers {revised 9/20/77}
48.	3/1/78	SKAGIT RIVER LEVEE & CHANNEL IMPROVEMENTS, PUBLIC BROCHURE, DRAFT 1, by Forest Brooks, Corps of Engineers
49.	12/20/78	STUDYGRAM for PUBLIC WORKSHOP, SKAGIT RIVER LEVEE & CHANNEL IMPROVEMENTS, by Forest Brooks, Corps of Engineers
50.	4/6/79	FINAL REVISED REPORT ON EFFECTS OF FLOOD LEVEE PROJECT ON FISH & WILDLIFE RESOURCES, U.S. Fish & Wildlife Service {Summary and Recommendations contained in FEIS}
51.	4/30/79	DRAFT ENVIRONMENTAL IMPACT STATEMENT, SKAGIT RIVER LEVEE IMPROVEMENT PROJECT, Corps of Engineers
52.	6/11/79	SKAGIT RIVER, WASHINGTON, ADDENDUM TO THE DRAFT ENVIRONMENTAL IMPACT STATEMENT, DATED MAY 1979, Corps of Engineers
53.	6/79	SKAGIT RIVER LEVEE IMPROVEMENTS, PUBLIC BROCHURE, DRAFT 2, by Forest Brooks, Corps of Engineers

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54.	7/26/79	SKAGIT RIVER WASHINGTON, GENERAL DESIGN MEMORANDUM, LEVEE IMPROVEMENTS, MAIN REPORT VOL 1 OF 2, by LTC Maxey B. Carpenter, Jr., Corps of Engineers
55.	7/26/79	SKAGIT RIVER, WASHINGTON, GENERAL DESIGN MEMORANDUM, LEVEE IMPROVEMENTS, APPENDICES VOL 2 OF 2, Corps of Engineers
56.	7/26/79	SKAGIT RIVER WASHINGTON, FINAL ENVIRONMENTAL IMPACT STATEMENT, Corps of Engineers
57.	1981	<u>RECOMMENDATION FOR A FLOOD CONTROL PLAN FOR THE SKAGIT RIVER BASIN</u> , Skagit County Flood Control Committee
58.	11/27/81	FLOOD INSURANCE STUDY, TOWN OF HAMILTON, WASHINGTON, SKAGIT COUNTY, prepared for Federal Emergency Management Agency by Corps of Engineers
59.	12/81	<u>SKAGIT RIVER DAM FAILURE INUNDATION STUDY</u> , Prepared for City of Seattle—Dept of Lighting, by Hydrocomp, Inc
60.	1/5/82	FLOOD INSURANCE STUDY, CITY OF SEDRO WOOLLEY, WASHINGTON, SKAGIT COUNTY, prepared for Federal Emergency Management Agency by Corps of Engineers
61.	1/19/82	FLOOD INSURANCE STUDY, TOWN OF LYMAN, WASHINGTON, SKAGIT COUNTY, prepared for Federal Emergency Management Agency by Corps of Engineers
62.	2/2/82	FLOOD INSURANCE STUDY, TOWN OF CONCRETE, WASHINGTON, SKAGIT COUNTY, prepared for Federal Emergency Management Agency by Corps of Engineers
63.	12/1/82	<u>ANALYSIS OF FLOODING IN THE SKAGIT RIVER DELTA AREA</u> , by Federal Emergency Management Agency, prepared by Dames & Moore
64.	6/13/83	GAGES SLOUGH ANALYSIS OF THE FLOODWAY ISSUE, Larry J. Kunzler
65.	6/14/84	SKAGIT COUNTY FLOOD INSURANCE STUDY, FINAL COORDINATION MEETING, Federal Emergency Management Agency and Corps of Engineers
66.	6/18/84	FLOOD INSURANCE STUDY, TOWN OF LA CONNER, WASHINGTON, SKAGIT COUNTY, prepared for Federal Emergency Management Agency by Corps of Engineers and Dames & Moore



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67.	7/3/84	FLOOD INSURANCE STUDY, CITY OF MOUNT VERNON, WASHINGTON, SKAGIT COUNTY, by Federal Emergency Management Agency
68.	7/3/84	FLOOD INSURANCE STUDY, CITY OF BURLINGTON, WASHINGTON, SKAGIT COUNTY, prepared for Federal Emergency Management Agency by Corps of Engineers and Dames & Moore
69.	10/17/84	FLOOD INSURANCE STUDY, SKAGIT COUNTY, WASHINGTON, UNINCORPORATED AREAS, prepared for Federal Emergency Management Agency by Corps of Engineers and Dames & Moore
70.	9/29/89	FLOOD INSURANCE STUDY, SKAGIT COUNTY, WASHINGTON, UNINCORPORATED AREAS, prepared for Federal Emergency Management Agency by Corps of Engineers and Dames & Moore – Revised
71.	2/1/89	<u>BAKER DAM FAILURE INUNDATION STUDY</u> , prepared for Puget Sound Power and Light Company by Hydrocomp, Inc.
72.	4/1/89	SKAGIT COUNTY COMPREHENSIVE FLOOD CONTROL MANAGEMENT PLAN, prepared for Skagit County Public Works Dept. by Brown and Caldwell
73.	1/1/91	NOVEMBER 1990: A PRELIMINARY ASSESSMENT OF FLOOD DAMAGE TO THE SKAGIT RIVER FISHERIES RESOURCES, Skagit System Cooperative
74.	5/1/91	SKAGIT RIVER VALLEY, THE DISASTER WAITING TO HAPPEN, by Larry Kunzler
75.	7/18/91	FLOOD SUMMARY REPORT - NOOKSACK, SKAGIT AND SNOHOMISH RIVER BASINS - NOVEMBER 1990 EVENTS, by Corps of Engineers
76.	7/1/92	THE NOVEMBER 1990 FLOODS IN WESTERN WASHINGTON, USA, R. D. Harr & T. W. Cundy, University of Washington
77.	12/1/92	KELLER ROHRBACK SKAGIT RIVER FLOOD ANALYSIS, DRAFT REPORT, Kramer, Chin & Mayo, Inc.
78.	4/1/93	DRAFT RECONNAISSANCE REPORT, SKAGIT RIVER, WASHINGTON, FLOOD DAMAGE REDUCTION STUDY, Draft #1, Corps of Engineers {Internal Draft for Study Team Review}



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79.	5/1/93	DRAFT RECONNAISSANCE REPORT, SKAGIT RIVER, WASHINGTON, FLOOD DAMAGE REDUCTION STUDY, Draft #2, Corps of Engineers {Final Draft}
80.	4/9/2003	<u>PIE Assessment of Additional Flood Control Storage at Baker River Project</u> for Skagit County Government
81.	2/14/2004	<u>James E. Stewart Skagit River Flood Reports And Assorted Documents: A Citizen Critical Review Whitepaper</u> by Larry J. Kunzler <u>Whitepaper Appendix E</u>
82.	3/10/2004	<u>DRAFT Upper and Lower Baker Dams Probable Maximum Flood Study Report</u> by PIE for Skagit County Government
83.	5/3/2004	<u>USGS Investigations of Floods on the Skagit River</u>
84.	6/7/2004	<u>USGS Response To Whitepaper</u>
85.	8/27/2004	<u>PIE Technical Memorandum: Analysis of Flood Control Storage at Baker River Project</u> for Skagit County Government
86.	11/16/2004	<u>Draft Evaluation of Flood Peaks Est. by USGS</u> (without Appendices, See Jarrett Review under USGS; See also " <u>Whitepaper</u> " under LJK Documents)
87.	2/10/2005	USGS <u>Surface-Water Specialist Mark Mastin Letter to Skagit County Public Works Director Chal Martin</u>
88.	2/14/2005	<u>Review & Comments</u> of "Draft Evaluation of Flood Peaks Estimated by USGS" by Robert D. Jarrett, Ph.D., USGS, National Research Program
89.	9/05	<u>NFIP Insurance Report as of September 2005</u> for FEMA
90.	2/10/2006	<u>An Evaluation of Flood Frequency Analyses for the Skagit River, Skagit County, Washington</u> by Will Thomas, Jr. for the Michael Baker, Jr. firm for FEMA
91.	7/23/2006	<u>James E. Stewart Skagit River Flood Reports And Assorted Documents: A Citizen Critical Review Whitepaper</u> , Updated and Republished by Larry J. Kunzler
92.	10/26/2006	<u>USGS Response to Updated Whitepaper</u>
93.	11/20/2006	<u>PIE response</u> to Evaluation of Flood Frequency Analyses for Skagit County Government by Michael Baker, Jr. Firm



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94.	2/2007	<u>Skagit River Hydrology Independent Technical Review Draft Report</u> by nhc for Skagit County Government
95.	2/8/2007	<u>Cover Letter to Carl Cook, Director of FEMA Region X</u> <u>Preliminary Investigation into Historic Flood Marks in the "Smith" House</u> by City of Burlington
96.	2/12/2007	<u>FEMA response to Hamilton Smith House Report</u>
97.	2/22/2007	<u>Skagit River Basin, Washington Revised Flood Insurance Study - Draft Hydraulics Summary</u> by Corps of Engineers
98.	3/27/2007	<u>Skagit River Hydrology Independent Technical Review Presentation</u> by nhc for Skagit County Government
99.	4/2007	<u>nhc Skagit River Hydrology Independent Technical Review Final Report</u>
100.	5/19/2007	<u>Cockreham Island Buy-Out Feasibility Study Executive Summary</u> by Skagit County Government
101.	8/9/2007	<u>Skagit River Revised Flood Insurance Study Levee Scenario Discussion</u> by Corps of Engineers
102.	6/4/2007	<u>Pacific International Engineering Technical Memorandum Hydraulic Analysis – Smith House Flood Stages</u> for City of Burlington
103.	6/7/2007	<u>Hromadka & Associates: An Independent Technical Review – Comments on Flood Frequency Analyses for the Skagit River, Skagit County, Washington</u> for City of Burlington
104.	8/2007	<u>Skagit River Basin Hydrology Draft Report</u> Existing Conditions by Pacific International Engineering (PIE) for Cities of Burlington and Mount Vernon
105.	8/10/2007	<u>Re-evaluation of the 1921 Peak Discharge at Skagit River near Concrete, Washington</u> by USGS
106.	8/15/2007	<u>Hromadka & Associates An Independent Technical Review – Comments on Flood Frequency Analyses for the Skagit River, Skagit County, Washington</u> (Final Report) for City of Burlington
107.	8/17/2007	<u>WJE Smith House Forensic Report</u> for City of Burlington
108.	11/01/2007	<u>nhc Review</u> of Skagit River Basin Hydrology Draft Report Existing Condition by PIE for Skagit County Government



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109.	11/17/2007	<u>Preliminary Historical Investigation of East Concrete and Crofoot Addition Flood Levels</u> by Larry J. Kunzler
110.	12/04/07	<u>Historic Flood Flows of the Skagit River</u> by Larry J. Kunzler
111.	12/20/2007	<u>Interim Review</u> of US Army Corps of Engineers Lower Skagit River Flo-2d Model by nhc for Skagit County Government
112.	2/14/2008	<u>Corps of Engineers Seattle District Flood Risk Assessment</u>
113.	2/28/2008	<u>Cultural Resources Assessment for the Mount Vernon Downtown Flood Protection Project</u> for the City of Mount Vernon