

## 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*

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 <sup>st</sup> Congress, 2 <sup>nd</sup> Session}
2	12/11/1897 S 1/8/1898 HD	SURVEY OF SKAGIT RIVER FROM ITS MOUTH TO SEDRO, WASH., Survey (S) by Capt. Harry Taylor, Corps of Engineers {published as House Document #204, 55 <sup>th</sup> Congress, 2 <sup>nd</sup> 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 <sup>nd</sup> Congress, 2 <sup>nd</sup> 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 <sup>rd</sup> Congress, 2 <sup>nd</sup> 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	SKAGIT RIVER FLOOD REPORT, by James E. Stewart, Hydraulic Engineer, U.S.G.S., Tacoma, Washington
7	8/12/18	APPENDIX TO SKAGIT RIVER FLOOD REPORT, 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 <sup>th</sup> Congress, 2 <sup>nd</sup> Session}
9	8/26/22	PROPOSED FLOOD CONTROL SKAGIT RIVER, by Robert Herzog, Great Northern Railway Company
10	10/23  1923	STAGE AND VOLUME OF PAST FLOODS IN SKAGIT VALLEY AND ADVISABLE PROTECTIVE MEASURES PRIOR TO THE CONSTRUCTION OF PERMANENT FLOOD CONTROLLING WORKS, by James E. Stewart, Hydraulic Engineer, U.S.G.S., Tacoma, Washington  Draft SKAGIT RIVER FLOOD REPORT by James E. Stewart, Hydraulic Engineer, U.S.G.S., Tacoma, Washington, undated, contains additional chapter not found in final report

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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 <sup>th</sup> Congress, 1 <sup>st</sup> Session}
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 <sup>th</sup> Congress, 1 <sup>st</sup> 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	3/17/32	SKAGIT RIVER FLOOD CONTROL RIVER ENLARGEMENT AND DIKES, by Charles B. Smith
15	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 <sup>rd</sup> Congress, 2 <sup>nd</sup> 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.
16	8/26/35	REPORT AND FINDINGS SKAGIT FLOOD CONTROL DISTRICT BOUNDARY COMMISSION, Commission Minutes
17	3/29/37 PE	SKAGIT RIVER AND TRIBUTARIES, WASHINGTON, PE by Lt. Col. H.J. Wild, Corps of Engineers
18	7/30/40 S	SKAGIT RIVER AND TRIBUTARIES, WASHINGTON, S by Col. B.C. Dunn, Corps of Engineers
19	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
20	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

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REPORT #	DATE	TITLE
21	1/6/50	REPORT ON SKAGIT RIVER FLOOD, 27-29 NOVEMBER 1949, by Col. Z.C. Itschener, Corps of Engineers
22	2/1/50	REPORT ON DERIVATION OF STANDARD PROJECT FLOOD for SKAGIT RIVER NEAR SEDRO WOOLLEY, WASHINGTON, Corps of Engineers
23	7/1/50	FLOOD CONTROL ECONOMIC JUSTIFICATION STUDY SKAGIT RIVER, Corps of Engineers
24	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}
25	2/21/52	APPENDIX to SKAGIT RIVER AND TRIBUTARIES, WASHINGTON, S (Appendix to #24), Corps of Engineers
26	1/1/61	FLOODS IN THE SKAGIT RIVER BASIN, WASHINGTON, GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1527, James E. Stewart and G. Lawrence Bodhaine
27	2/8/61	PLAN OF SURVEY, SKAGIT RIVER FLOOD CONTROL STUDY, Corps of Engineers
28	2/8/61	REPORT ON SKAGIT RIVER FLOOD CONTROL – HEARING WITH THE CORPS OF ARMY ENGINEERS, Skagit County Dike District 12, NOTE: Includes several comment letters submitted at public hearing.
29	1/18/63 PR	SKAGIT RIVER, WASHINGTON (NAVIGATION), Preliminary Report (PR) on dredging barge channel to Concrete, by Col. Ernst Perry, Corps of Engineers
30	11/22/63	INFORMATION BULLETIN FOR PUBLIC HEARING, SKAGIT RIVER, WASHINGTON, PLANS FOR FLOOD CONTROL AND RECREATION IMPROVEMENTS INCLUDING FISHERIES AS ADDED PURPOSES FOR AVON BYPASS, Corps of Engineers
31	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
32	5/20/64	INTERIM REPORT OF BUREAU OF SPORT FISHERIES AND WILDLIFE, U.S. Fish & Wildlife Service {Appendix D in #31}

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REPORT #	DATE	TITLE
33	3/1/65	SKAGIT RIVER BASIN, WASHINGTON, FLOOD CONTROL AND OTHER IMPROVEMENTS by Colonel C.C. Holbrook, Corps of Engineers
34	3/1/66	SUPPLEMENT TO REVIEW REPORT ON FLOOD CONTROL AND OTHER IMPROVEMENTS ON SKAGIT RIVER, WASHINGTON, Corps of Engineer
35	7/1/66	FLOOD PLAIN INFORMATION STUDY, SKAGIT RIVER BASIN, WASHINGTON, SUMMARY REPORT, Corps of Engineers
36	8/30/66	AVON BYPASS, SKAGIT RIVER, WASHINGTON, DESIGN MEMORANDUM NO. 1, SITE SELECTION, Corps of Engineers
37	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 <sup>th</sup> Congress, 2 <sup>nd</sup> 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.
38	4/1/66 (2/10/66)	FLOOD PLAIN INFORMATION STUDY, SKAGIT RIVER BASIN, WASHINGTON, TECHNICAL REPORT, Corps of Engineers
39	1967??	WATERSHED INVESTIGATION REPORTS ON GAGES SLOUGH, Soil Conservation Service, Forest Service & USDA, {prepared to support Puget Sound and Adjacent Waters Comprehensive Study}
40	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.

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41	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
42	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 <sup>th</sup> Congress, 1 <sup>st</sup> 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.
43	1/1/76	POST FLOOD REPORT, SKAGIT RIVER BASIN, December 1975 Flood, by Ernie Sabo, Corps of Engineers
44	3/1/76	SKAGIT RIVER FLOODING, AN OVERVIEW, Skagit County Rural Development Committee
45	4/22/76	ENVIRONMENTAL EVALUATION FOR SKAGIT RIVER BASIN EMERGENCY LEVEE REPAIRS, SKAGIT COUNTY, WASHINGTON, Corps of Engineers
46	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}
47	3/1/78	SKAGIT RIVER LEVEE & CHANNEL IMPROVEMENTS, PUBLIC BROCHURE, DRAFT 1, by Forest Brooks, Corps of Engineers
48	12/20/78	STUDYGRAM for PUBLIC WORKSHOP, SKAGIT RIVER LEVEE & CHANNEL IMPROVEMENTS, by Forest Brooks, Corps of Engineers
49	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}
50	4/30/79	DRAFT ENVIRONMENTAL IMPACT STATEMENT, SKAGIT RIVER LEVEE IMPROVEMENT PROJECT, Corps of Engineers

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REPORT #	DATE	TITLE
51	6/11/79	SKAGIT RIVER, WASHINGTON, ADDENDUM TO THE DRAFT ENVIRONMENTAL IMPACT STATEMENT, DATED MAY 1979, Corps of Engineers
52	6/79	SKAGIT RIVER LEVEE IMPROVEMENTS, PUBLIC BROCHURE, DRAFT 2, by Forest Brooks, Corps of Engineers
53	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
54	7/26/79	SKAGIT RIVER, WASHINGTON, GENERAL DESIGN MEMORANDUM, LEVEE IMPROVEMENTS, APPENDICES VOL 2 OF 2, Corps of Engineers
55	7/26/79	SKAGIT RIVER WASHINGTON, FINAL ENVIRONMENTAL IMPACT STATEMENT, Corps of Engineers
56	1981	RECOMMENDATION FOR A FLOOD CONTROL PLAN FOR THE SKAGIT RIVER BASIN, Skagit County Flood Control Committee
57	11/27/81	FLOOD INSURANCE STUDY, TOWN OF HAMILTON, WASHINGTON, SKAGIT COUNTY, prepared for Federal Emergency Management Agency by Corps of Engineers
58	12/81	SKAGIT RIVER DAM FAILURE INUNDATION STUDY, Prepared for City of Seattle—Dept of Lighting, by Hydrocomp, Inc
59	1/5/82	FLOOD INSURANCE STUDY, CITY OF SEDRO WOOLLEY, WASHINGTON, SKAGIT COUNTY, prepared for Federal Emergency Management Agency by Corps of Engineers
60	1/19/82	FLOOD INSURANCE STUDY, TOWN OF LYMAN, WASHINGTON, SKAGIT COUNTY, prepared for Federal Emergency Management Agency by Corps of Engineers
61	2/2/82	FLOOD INSURANCE STUDY, TOWN OF CONCRETE, WASHINGTON, SKAGIT COUNTY, prepared for Federal Emergency Management Agency by Corps of Engineers
62	12/1/82	ANALYSIS OF FLOODING IN THE SKAGIT RIVER DELTA AREA, by Federal Emergency Management Agency, prepared by Dames & Moore
63	6/13/83	GAGES SLOUGH ANALYSIS OF THE FLOODWAY ISSUE, Larry J. Kunzler

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REPORT #	DATE	TITLE
64	6/14/84	SKAGIT COUNTY FLOOD INSURANCE STUDY, FINAL COORDINATION MEETING, Federal Emergency Management Agency and Corps of Engineers
65	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
66	7/3/84	FLOOD INSURANCE STUDY, CITY OF MOUNT VERNON, WASHINGTON, SKAGIT COUNTY, by Federal Emergency Management Agency
67	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
68	10/17/84	FLOOD INSURANCE STUDY, SKAGIT COUNTY, WASHINGTON, UNINCORPORATED AREAS, prepared for Federal Emergency Management Agency by Corps of Engineers and Dames & Moore
69	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
70	2/1/89	BAKER DAM FAILURE INUNDATION STUDY, prepared for Puget Sound Power and Light Company by Hydrocomp, Inc.
71	4/1/89	SKAGIT COUNTY COMPREHENSIVE FLOOD CONTROL MANAGEMENT PLAN, prepared for Skagit County Public Works Dept. by Brown and Caldwell
72	1/1/91	NOVEMBER 1990: A PRELIMINARY ASSESSMENT OF FLOOD DAMAGE TO THE SKAGIT RIVER FISHERIES RESOURCES, Skagit System Cooperative
73	5/1/91	SKAGIT RIVER VALLEY, THE DISASTER WAITING TO HAPPEN, by Larry Kunzler
74	7/18/91	FLOOD SUMMARY REPORT - NOOKSACK, SKAGIT AND SNOHOMISH RIVER BASINS - NOVEMBER 1990 EVENTS, by Corps of Engineers
75	7/1/92	THE NOVEMBER 1990 FLOODS IN WESTERN WASHINGTON, USA, R. D. Harr & T. W. Cundy, University of Washington

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76	12/1/92	KELLER ROHRBACK SKAGIT RIVER FLOOD ANALYSIS, DRAFT REPORT, Kramer, Chin & Mayo, Inc.
77	4/1/93	DRAFT RECONNAISSANCE REPORT, SKAGIT RIVER, WASHINGTON, FLOOD DAMAGE REDUCTION STUDY, Draft #1, Corps of Engineers {Internal Draft for Study Team Review}
78	5/1/93	DRAFT RECONNAISSANCE REPORT, SKAGIT RIVER, WASHINGTON, FLOOD DAMAGE REDUCTION STUDY, Draft #2, Corps of Engineers {Final Draft}